



LexmarkTM

CX920, CX921, XC9225, XC9235, and CX927

7559-078, -098, -178, -198

Service Manual

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Product information

Product name:

Lexmark CX920, CX921, XC9225, XC9235

Machine type:

7559

Model(s):

078, 098, 178, 198

Edition notice

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Notices, conventions, and safety information

Laser notice

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, Chapter I, Subchapter J for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1: 2014.

Class I laser products are not considered to be hazardous. The printer contains a Class IIIb (3b) AlGaAs laser that is nominally 25 milliwatts operating in the wavelength region of 770–800 or 775–800 nanometers and enclosed in a non-serviceable printhead assembly. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service conditions.

Avis relatif à l'utilisation du laser

Cette imprimante est certifiée conforme aux exigences de la réglementation des Etats-Unis relative aux produits laser de classe I (1) (DHHS 21 CFR, Chapitre I, Sous-chapitre J). Pour les autres pays, elle est certifiée conforme aux exigences des normes CEI 60825-1: 2014 relatives aux produits laser de classe I.

Les produits laser de classe I ne sont pas considérés comme dangereux. L'imprimante contient un dispositif laser AlGaAs (arséniure de gallium-aluminium) de classe IIIb (3b) d'une puissance nominale de 25 milliwatts fonctionnant dans la plage de longueurs d'onde allant de 770 à 800 ou de 775 à 800 nanomètres et scellé dans un compartiment de têtes d'impression non réparable. Le système laser ainsi que l'imprimante ont été conçus de manière à ce que personne ne soit jamais exposé à des radiations laser dépassant le niveau de classe I dans le cadre d'un fonctionnement normal, de l'entretien par l'utilisateur ou de la maintenance.

Notificació del làser

La impressora està certificada als EUA per complir els requeriments de DHHS 21 CFR, capítol I, subcapítol J per a productes de làser Classe I (1), i a la resta del món s'ha certificat com productes de làser Classe I segons els requeriments de la norma IEC 60825-1: 2014.

Els productes de làser Classe I no es consideren perillosos. La impressora conté un làser intern Classe IIIb (3b) AlGaAs que normalment és de 25 miliwatts, que funciona a la regió de longitud d'ona de 770 a 800 o de 775 a 800 nanòmetres i es troba dins d'una unitat de capçals d'impressió no substituïbles. El sistema làser i la impressora estan dissenyats de manera que les persones no estiguin exposades a una radiació del làser superior al nivell de Classe I durant el funcionament normal, el manteniment de l'usuari o les condicions de servei prescrites.

Aviso de láser

Esta impresora se ha certificado en EE.UU. cumpliendo con los requisitos de DHHS 21 CFR, capítulo I, subcapítulo J para los productos láser de Clase I (1) y en otros países está certificada como un producto láser de Clase I de acuerdo con los requisitos de IEC 60825-1: 2014.

Los productos láser de Clase I no se consideran peligrosos. Este producto contiene un láser interno de Clase IIIb (3b) AlGaAs que opera nominalmente a 25 milivatios en una longitud de onda de 770–800 o 775–800 nanómetros, cerrado en un conjunto de cabezal de impresión que no se puede reparar. El sistema láser y la impresora se han diseñado para que el ser humano no acceda nunca a las radiaciones láser por encima del nivel de Clase I durante su uso normal, ni en tareas de mantenimiento o intervenciones de servicio técnico prescritas.

Aviso sobre laser

Esta impressora foi certificada nos EUA por estar em conformidade com os requisitos do DHHS 21 CFR capítulo I, subcapítulo J, para produtos a laser de Classe I (1) e, nos demais países, foi certificada como um produto a laser de Classe I em conformidade com os requisitos da IEC 60825-1: 2014.

Os produtos a laser de Classe I não são considerados prejudiciais. A impressora contém, internamente, um laser de Classe IIIb (3b) AlGaAs que funciona nominalmente a 25 miliwatts no comprimento de onda de 770-800 ou 775-800 nanômetros, incluso em um conjunto do cabeçote de impressão sem possibilidade de manutenção. O sistema do laser e a impressora foram projetados para que jamais haja acesso humano à radiação do laser acima do nível da Classe I durante a operação normal ou a manutenção pelo usuário ou sob as condições de manutenção prescritas.

Avvertenze sui prodotti laser

La stampante è certificata negli Stati Uniti come prodotto conforme ai requisiti DHHS 21 CFR Capitolo I, Sottocapitolo J per i prodotti laser di Classe I (1), mentre in altri paesi è certificata come prodotto laser di Classe I conforme ai requisiti IEC 60825-1: 2014.

I prodotti laser di Classe I non sono considerati pericolosi. La stampante contiene internamente un laser AlGaAs di Classe IIIb (3b) con valore nominale di 25 milliwatt, funzionante nella regione della lunghezza d'onda dei 770-800 o 775-800 nanometri e contenuto in un gruppo testina di stampa non riparabile. Il sistema laser e la stampante sono stati progettati in modo da impedire l'esposizione a radiazioni laser superiori al livello previsto dalla Classe I durante le normali operazioni di stampa, manutenzione o assistenza.

Laserinformatie

De printer is in de Verenigde Staten gecertificeerd als een product dat voldoet aan de vereisten van DHHS 21 CFR hoofdstuk 1, paragraaf J voor laserproducten van klasse I (1). Elders is de printer gecertificeerd als een laserproduct van klasse I dat voldoet aan de vereisten van IEC 60825-1: 2014.

Laserproducten van klasse I worden geacht geen gevaar op te leveren. De printer bevat intern een laser van klasse IIIb (3b) AlGaAs met een nominaal vermogen van 25 milliwatt in een golflengtebereik van 770–800 of 775–800 nanometer in een niet-buikbare printkopenheid. Het lasersysteem en de printer zijn zodanig ontworpen dat gebruikers nooit blootstaan aan laserstraling die hoger is dan het toegestane niveau voor klasse I-apparaten, tijdens normaal gebruik, onderhoudswerkzaamheden door de gebruiker of voorgeschreven servicewerkzaamheden.

Lasererklæring

Printeren er certificeret i USA i henhold til kravene i DHHS 21 CFR kapitel I, underafsnit J for klasse I (1) laserprodukter og er andre steder certificeret som et klasse I-laserprodukt i henhold til kravene i IEC 60825-1: 2014.

Klasse I-laserprodukter anses ikke som farlige. Printeren indeholder internt en Klasse IIIb (3b) AlGaAslaser, der nominelt er en 25 milliwatt laser, som fungerer i bølglængdeområdet 770-800 eller 775–800 nanometer og indbygget i en printhovedenhed, der ikke kan serviceres. Lasersystemet og printeren er designet på en sådan måde, at der ikke er en direkte laserstråling, der overskrider Klasse I-niveauet under normal brug, brugers vedligeholdelse eller de foreskrevne servicebetingelser.

Laser-Hinweis

Der Drucker wurde in den USA zertifiziert und entspricht den Anforderungen der Vorschriften DHHS 21 CFR Kapitel I für Laserprodukte der Klasse I (1), andernorts ist er als Laserprodukt der Klasse I zertifiziert, das den Anforderungen von DIN EN 60825-1:2014 entspricht.

Laserprodukte der Klasse I werden nicht als gefährlich betrachtet. Der Drucker enthält im Inneren einen Laser der Klasse IIIb (3b) AlGaAs mit 25 Milliwatt, der im Wellenlängenbereich von 770–800 oder 775–800 Nanometern arbeitet. Dieser befindet sich in einer Druckkopfleinheit, die nicht gewartet werden kann. Das Lasersystem und der Drucker sind so konstruiert, dass unter normalen Betriebsbedingungen, bei der Wartung durch den Benutzer oder bei den vorgeschriebenen Wartungsbedingungen Menschen keiner Laserstrahlung ausgesetzt sind, die die Werte für Klasse I überschreitet.

Laserilmoitus

Tämä tulostin on sertifioitu Yhdysvalloissa DHHS 21 CFR, Chapter I, Subchapter J -standardin mukaiseksi luokan I (1) -lasertuotteeksi ja muualla IEC 60825-1:2014 -standardin mukaiseksi luokan I lasertuotteeksi.

Luokan I lasertuotteita ei pidetä haitallisina. Tulostimen sisällä on luokan IIIb (3b) AlGaAs -laser, jonka nimellisteho on 25 mW, joka toimii 770–800 tai 775–800 nanometrin aallonpituuksilla ja joka on suljettu tulostuspäähän, jota käyttäjä ei voi huoltaa. Laserjärjestelmä ja tulostin ovat rakenteeltaan sellaisia, että käyttäjä ei joudu alttiiksi luokkaa 1 suuremmalle säteilylle normaalin käytön, ylläpidon tai huollon aikana.

Lasermerknad

Skriveren er sertifisert i USA for samsvar med kravene i DHHS 21 CFR, kapittel I, underkapittel J for laserprodukter av klasse I (1) og er andre steder sertifisert som et laserprodukt av klasse I som samsvarer med kravene i IEC 60825-1: 2014.

Laserprodukter av klasse I anses ikke som helseskadelige. Skriveren inneholder en intern AlGaAs-laser av klasse IIIb (3b) på nominelt 25 milliwatt, som opererer i bølgelengder på 770–800 eller 775–800 nanometer, inni en skrivehodeenhet som ikke kan vedlikeholdes. Lasersystemet og skriveren er utformet slik at mennesker ikke utsettes for laserstråling utover nivået i klasse I under normal drift, vedlikehold eller foreskrevet service.

Meddelande om laser

Skrivaren är certifierad i USA i enlighet med kraven i DHHS 21 CFR kapitel I, underkapitel J för klass I (1)-laserprodukter, och på andra platser certifierad som en klass I-laserprodukt i enlighet med kraven i IEC 60825-1: 2014.

Laserprodukter av klass I anses inte vara skadliga. Skrivaren innehåller en klass IIIb (3b) AlGaAs-laser på nominellt 25 mW som arbetar inom en våglängd på 770–800 eller 775–800 nm och är innesluten i en icke-servicebar skrivhuvudenhet. Lasersystemet och skrivaren är utformade så att människor aldrig utsätts för laserstrålning över klass I-nivå under normala förhållanden vid användning, underhåll eller service.

レーザーについて

本機は、米国においてクラス I (1) レーザー製品に対する DHHS 21 CFR、Chapter I、Subchapter J の要件に準拠し、その他の国では IEC 60825-1: 2014 の要件に準拠するクラス I レーザー製品として認可されています。

クラス I レーザー製品は、危険性がないとみなされています。本機には、クラス IIIb (3b) AlGaAs レーザーが内蔵されています。これは、770 ～ 800 または 775 ～ 800 ナノメートルの波長で、定格 25 ミリワットで動作するレーザーであり、整備不可のプリントヘッドアセンブリに収容されています。レーザーシステム

とプリンタは、通常の操作、ユーザーによるメンテナンス、または所定のサービス条件の下で、ユーザーがクラス I レベルを超えるレーザー放射に絶対にさらされないように設計されています。

레이저 고지사항

프린터는 미국에서 레이저 제품용 DHHS 21 CFR Chapter I, Subchapter J의 요구 사항을 준수하며 이외 지역에서 IEC 60825-1:2014의 요구 사항을 준수하는 클래스 I(1) 레이저 제품으로 승인되었습니다.

Class I 레이저 제품은 위험한 제품으로 간주되지 않습니다. 프린터에는 770~800 또는 775~800 나노미터 범위의 파장 영역에서 공칭 작동하는 25밀리와트 AlGaAs 레이저인 클래스 IIIb(3b) 레이저가 서비스 불가 프린트 헤드 어셈블리에 내장되어 있습니다. 레이저 시스템과 프린터는 정상적인 작동, 사용자 유지 관리 또는 사전 설정된 서비스 조건에는 사람에게 클래스 I 수준 이상의 레이저 방사가 노출되지 않도록 설계되었습니다.

激光注意事项

本打印机在美国认证合乎 DHHS 21 CFR, Chapter I, Subchapter J 对分类 I (1) 激光产品的标准, 而在其他地区则被认证是合乎 IEC 60825-1: 2014 的分类 I 激光产品。

一般认为分类 I 激光产品不具有危险性。本打印机内部含有分类 IIIb (3b) 的砷化铝镓激光, 标称值为 25 毫瓦, 其工作波长范围在 770–800 或 775–800nm 之间, 并被封闭在不可维修的打印头配件中。本激光系统及打印机的设计, 在一般操作、使用者维护或规定内的维修情况下, 不会使人体接触分类 I 以上等级的辐射。

雷射聲明

本印表機係經過美國核可, 符合 DHHS 21 CFR, Chapter I, Subchapter J 規定的 I (1) 級雷射產品; 在美國以外的地區, 為符合 IEC 60825-1 : 2014 規定的 I 級雷射產品。

根據 I 級雷射產品的規定, 這類產品不會對人體造成傷害。本印表機所採用之 IIIb (3b) 級 AlGaAs 雷射在 770 至 800 或 775 至 800 奈米 (nanometer) 波長範圍內運作時通常為 25 毫瓦特 (milliwatt), 且含括在不可修復列印頭組件中。使用者只要以正確的方法操作及維護保養, 並依照先前所述之維修方式進行修護, 此印表機與其雷射系統絕不會產生 I 級以上的放射線, 而對人體造成傷害。

Conventions

Note: A *note* identifies information that could help you.

Warning: A *warning* identifies something that could damage the product hardware or software.

CAUTION: A *caution* indicates a potentially hazardous situation that could injure you.

Different types of caution statements include:



CAUTION—POTENTIAL INJURY: Indicates a risk of injury.



CAUTION—SHOCK HAZARD: Indicates a risk of electrical shock.



CAUTION—HOT SURFACE: Indicates a risk of burn if touched.



CAUTION—TIPPING HAZARD: Indicates a crush hazard.












CAUTION—PINCH HAZARD: Indicates a risk of being caught between moving parts.




CAUTION—ROTATING FAN BLADES: Indicates a risk of laceration from moving fan blades.


Symbols used in this machine

| | |
|---|--|
|  —On |  —Class II equipment |
|  —Off |  —Class II equipment with functional earthing |
|  —Standby |  —Functional earthing |
|  —Ground/earth (Protective bonding terminal) |  —Electrostatic discharge (ESD) sensitivity |
|  —Ground/earth (Protective earthing) | |

Safety information


- The safety of this product is based on testing and approvals of the original design and specific components. The manufacturer is not responsible for safety in the event of use of unauthorized replacement parts.
- The maintenance information for this product has been prepared for use by a professional service person and is not intended to be used by others.
- There may be an increased risk of electrical shock and personal injury during disassembly and servicing of this product. Professional service personnel should understand this risk and take necessary precautions.


 **CAUTION—SHOCK HAZARD:** When you see this symbol, there is a danger from hazardous voltage in the area of the product where you are working. Unplug the product before you begin, or use caution if the product must receive power in order to perform the task.

 **CAUTION—POTENTIAL INJURY:** The lithium battery in this product is not intended to be replaced. There is a danger of explosion if a lithium battery is incorrectly replaced. Do not recharge, disassemble, or incinerate a lithium battery. Discard used lithium batteries according to the manufacturer's instructions and local regulations.

Consignes de sécurité

- La sécurité de ce produit est basée sur des tests et certifications de sa conception d'origine et de ses composants spécifiques. Le fabricant décline toute responsabilité en cas d'utilisation de pièces de rechange non autorisées.
- Les informations de maintenance de ce produit sont destinées à des professionnels qualifiés et ne sont pas conçues pour être utilisées par d'autres personnes.
- Il existe un risque potentiel de choc électrique et de blessures lors du démontage et de la maintenance de ce produit. Le personnel professionnel de maintenance doit comprendre les risques et prendre les précautions nécessaires.

 **ATTENTION—RISQUE D'ELECTROCUTION :** Ce symbole indique un danger lié à des niveaux de tension dangereux dans la zone du produit à manipuler. Débranchez le produit avant de commencer, ou agissez avec prudence si le produit doit être alimenté pour effectuer l'opération.

 **ATTENTION—RISQUE DE BLESSURE :** La batterie lithium de ce produit n'est pas destinée à être remplacée. Si vous ne respectez pas les instructions de remplacement de la batterie, vous risquez de provoquer une explosion. Ne rechargez pas, ne désassemblez pas et ne brûlez pas la batterie au lithium. Mettez les batteries lithium usagées au rebut selon les instructions du fabricant et les réglementations locales.

Informació de seguretat

- La seguretat d'aquest producte es basa en les proves i les homologacions del disseny original i dels components específics. El fabricant no és responsable de la seguretat en el cas d'ús de peces de recanvi no autoritzades.
- La informació de manteniment d'aquest producte s'ha preparat per a l'ús d'un professional tècnic i no per a l'ús d'altres persones.
- És possible que el risc de descàrrega elèctrica i lesions personals augmenti durant el desmuntatge i les tasques de manteniment d'aquest producte. El professional tècnic ha de comprendre aquest risc i prendre les precaucions necessàries.



PRECAUCIÓ. PERILL DE DESCÀRREGA ELÈCTRICA: Quan vegeu aquest símbol, indica que hi ha un perill de voltatge elevat en l'àrea del producte on esteu treballant. Desconnecteu el producte abans de començar o tingueu precaució si el producte ha de rebre alimentació per realitzar la tasca.



PRECAUCIÓ. POSSIBLES DANYS: La bateria de liti d'aquest producte no ha estat dissenyada perquè se substitueixi. Hi ha perill d'explosió si no es substitueix correctament la bateria de liti. No recarregueu, desmunteu o incinereu una bateria de liti. Desfeu-vos de les bateries de liti usades d'acord amb les instruccions del fabricant i les regulacions locals.

Información de seguridad

- La seguridad de este producto se basa en las pruebas y comprobaciones del diseño original y los componentes específicos. El fabricante no se hace responsable de la seguridad en caso de uso de piezas de repuesto no autorizadas.
- La información de mantenimiento de este producto se ha preparado para su uso por parte de un profesional de asistencia técnica y no está diseñada para su uso por parte de otros usuarios.
- Es posible que haya un mayor riesgo de descarga eléctrica y daños personales durante el desmontaje y el mantenimiento de este producto. El personal de asistencia profesional debe conocer este riesgo y tomar las precauciones necesarias.




PRECAUCIÓN: PELIGRO DE DESCARGAS ELÉCTRICAS: Cuando vea este símbolo, existe peligro de tensiones peligrosas en el área del producto en la que está trabajando. Desconecte el producto antes de empezar o tenga cuidado si el producto debe recibir alimentación a fin de realizar la tarea.




PRECAUCIÓN: POSIBLES DAÑOS PERSONALES: La batería de litio de este producto no debe reemplazarse. Existe riesgo de explosión si se sustituye incorrectamente una batería de litio. No recargue, desmonte ni incinere una batería de litio. Deseche las baterías de litio usadas según las instrucciones del fabricante y las normativas locales.

Informações sobre segurança


- A segurança deste produto é baseada em testes e aprovações do design original e de componentes específicos. O fabricante não é responsável por segurança em caso de uso não autorizado de peças de substituição.
- As informações sobre manutenção deste produto foram preparadas para utilização por um técnico profissional experiente e não se destinam ao uso por outros.
- Pode haver maior risco de choque elétrico e danos pessoais durante a desmontagem e manutenção deste produto. Os técnicos profissionais experientes devem entender esses riscos e tomar as precauções necessárias.


 **ATENÇÃO—RISCO DE CHOQUE:** Se você vir este símbolo, existe perigo de tensão elétrica na área do produto onde está trabalhando. Desligue o produto antes de começar ou tenha cuidado se o produto precisar receber energia para executar a tarefa.

 **ATENÇÃO—RISCO DE FERIMENTO:** A bateria de lítio neste produto não deve ser substituída. Existe o risco de explosão se uma bateria de lítio for substituída incorretamente. Não recarregue, desmonte nem incinere uma bateria de lítio. Descarte as baterias de lítio usadas de acordo com as instruções do fabricante e regulamentos locais.

Informazioni sulla sicurezza

- La sicurezza di questo prodotto è basata sui test e sulle approvazioni del design originale e dei componenti specifici. Il produttore non è responsabile della sicurezza in caso di utilizzo di parti di ricambio non autorizzate.
- Le informazioni di manutenzione per questo prodotto sono state predisposte per essere utilizzate da un tecnico dell'assistenza professionale e non sono state previste per l'uso da parte di altre persone.
- È possibile che vi sia un maggior rischio di scosse elettriche e lesioni personali durante lo smontaggio e la manutenzione di questo prodotto. Il personale dell'assistenza deve comprendere questo rischio e prendere le precauzioni necessarie.


 **ATTENZIONE - PERICOLO DI SCOSSE ELETTRICHE:** Questo simbolo indica la presenza di un rischio per tensioni pericolose nell'area del prodotto in cui si lavora. Scollegare l'alimentazione prima di iniziare, o prestare la massima attenzione se per effettuare l'operazione il prodotto deve ricevere l'alimentazione.

 **ATTENZIONE - PERICOLO DI LESIONI:** La batteria al litio contenuto nel prodotto non deve essere sostituita: in caso di sostituzione errata della batteria al litio, potrebbe verificarsi un'esplosione. Non ricaricare, smontare o bruciare batterie al litio. Smaltire le batterie al litio usate seguendo le istruzioni del produttore e le norme locali.

Informatie over veiligheid


- De veiligheid van dit product is gebaseerd op testen en goedkeuringen van het oorspronkelijke ontwerp en specifieke onderdelen. De fabrikant is niet verantwoordelijk voor de veiligheid bij gebruik van ongeautoriseerde vervangende onderdelen.
- De informatie over het onderhoud van dit product is opgesteld voor gebruik door een professionele onderhoudsmonteur en is niet bedoeld voor gebruik door anderen.
- Tijdens demontage en onderhoud van dit product bestaat mogelijk een hoger risico op elektrische schokken en lichamelijk letsel. Professionele onderhoudsmonteurs dienen op de hoogte te zijn van dit risico en de noodzakelijke voorzorgsmaatregelen te nemen.


 **LET OP: GEVAAR VOOR ELEKTRISCHE SCHOKKEN:** Wanneer u dit symbool ziet, bestaat er een gevaar voor gevaarlijke spanning in het gebied van het product waaraan u werkt. Haal de stekker van het product uit het stopcontact voordat u begint, of let extra goed op als het product stroom nodig heeft om een taak te kunnen uitvoeren.

 **LET OP: RISICO OP LETSEL:** De lithiumbatterij in dit product moet niet worden vervangen. Wanneer de lithiumbatterij niet juist wordt vervangen, bestaat er explosiegevaar. Probeer nooit lithiumbatterijen op te laden, open te maken of te verbranden. Gooi gebruikte lithiumbatterijen weg volgens de aanwijzingen van de fabrikant en houd hierbij de plaatselijke regelgeving in acht.

Sikkerhedsoplysninger


- Sikkerheden for dette produkt er baseret på afprøvning og godkendelser af det oprindelige design og specifikke komponenter. Producenten er ikke ansvarlig for sikkerhed i tilfælde af brug af uautoriserede dele til udskiftning.
- Vedligeholdelsesoplysninger om dette produkt er udarbejdet til brug af en kvalificeret servicetekniker og er ikke beregnet til at blive brugt af andre.
- Der kan være en forøget risiko for elektrisk stød eller personskaade ved afmontering og service af dette produkt. Professionelt servicepersonale bør forstå denne risiko og tage nødvendige forholdsregler.


 **FORSIGTIG - ELEKTRISK STØD:** Når du ser dette symbol, er der risiko for elektrisk spænding i nærheden af produktet, hvor du arbejder. Tag strømskiftet ud inden du begynder, eller udvis forsigtighed, hvis produktet skal modtage strøm for at udføre opgaven.

 **FORSIGTIG - RISIKO FOR SKADE:** Litium-batteriet i dette produkt er ikke beregnet til at blive udskiftet. Der er fare for eksplosion, hvis et litium-batteri udskiftes forkert. Du må ikke genoplade, demontere eller afbrænde et litium-batteri. Brugte litium-batterier skal bortskaffes i overensstemmelse med producentens instruktioner og lokale retningslinjer.

Sicherheitshinweise


- Die Sicherheit dieses Produkts basiert auf Tests und Zulassungen des Originaldesigns und der spezifischen Komponenten. Sofern nicht autorisierte Ersatzteile eingesetzt werden, übernimmt der Hersteller keinerlei Verantwortung in Bezug auf die Sicherheit dieses Produkts.
- Die Wartungsinformationen für dieses Produkt wurden für ausgebildete Servicemitarbeiter zusammengestellt und dürfen nicht von anderen verwendet werden.
- Möglicherweise besteht bei der Demontage und Wartung dieses Produkts eine erhöhte Stromschlag- und Verletzungsgefahr. Ausgebildete Servicemitarbeiter sollten sich dieser Gefahr bewusst sein und die notwendigen Vorsichtsmaßnahmen ergreifen.

 **VORSICHT – STROMSCHLAGGEFAHR:** Wenn Sie dieses Symbol sehen, besteht eine Gefahr durch gefährliche Spannungen in dem Produktbereich, in dem Sie arbeiten. Trennen Sie das Produkt von seiner Stromverbindung, bevor Sie beginnen, oder gehen Sie vorsichtig vor, wenn das Produkt für die Durchführung der Aufgabe mit Strom versorgt werden muss.

 **VORSICHT – MÖGLICHE VERLETZUNGSGEFAHR** Die Lithiumbatterie in diesem Produkt darf nicht ausgetauscht werden. Wird eine Lithiumbatterie nicht ordnungsgemäß ausgetauscht, besteht Explosionsgefahr. Lithiumbatterien dürfen auf keinen Fall wieder aufgeladen, auseinander genommen oder verbrannt werden. Befolgen Sie zum Entsorgen verbrauchter Lithiumbatterien die Anweisungen des Herstellers und die örtlichen Bestimmungen.

Turvallisuusohjeet

- Tämän laitteen turvallisuus perustuu alkuperäisen rakenteen ja tiettyjen osien testaukseen ja hyväksymiseen. Valmistaja ei vastaa turvallisuudessa, jos laitteessa on käytetty luvattomia vaihto-osia.
- Tämän tuotteen huoltoa koskevat tiedot on tarkoitettu vain ammattitaitoisen huoltohenkilön käyttöön.
- Tämän tuotteen purkamiseen ja huoltoon voi liittyä kasvanut sähköiskun tai henkilövahingon vaara. Ammattitaitoisen huoltohenkilön on ymmärrettävä tämä vaara ja toimittava sen edellyttämällä tavalla.

 **HUOMIO – SÄHKÖISKUN VAARA:** Tämä symboli ilmaisee, että tuotteen työskentelyalueella on olemassa vaarallinen jännite. Irrota laite verkkovirrasta ennen kuin aloitat tai toimi erittäin varovasti, jos laitteessa on oltava virta työn aikana.



HUOMIO – TAPATURMAN MAHDOLLISUUS: Tuotteessa olevaa litiumakkua ei ole tarkoitettu vaihdettavaksi. Litiumakun poistaminen väärin aiheuttaa räjähdysvaaran. Älä lataa, pura tai polta litiumakkua. Hävitä käytetyt litiumakut valmistajan ohjeiden ja paikallisten säädösten mukaisesti.

Sikkerhetsinformasjon

- Sikkerheten til dette produktet er basert på testing og godkjenning av originaldesignet og bestemte komponenter. Produsenten er ikke ansvarlig for sikkerheten ved bruk av uautoriserte reservedeler.
- Vedlikeholdsinformasjonen for dette produktet er tilrettelagt for bruk av profesjonelt servicepersonale, og er ikke ment for bruk av andre.
- Det kan være en økt risiko for elektrisk støt og personskade under demontering og vedlikehold av produktet. Profesjonelt servicepersonell må være innforstått med denne risikoen og ta nødvendige forholdsregler.



FORSIKTIG – FARE FOR STØT: Dette symbolet betyr at det er fare for farlig spenning i det området av produktet der du arbeider. Koble fra produktet før du begynner, eller vær forsiktig hvis produktet må ha strøm for å kunne utføre oppgaven.



FORSIKTIG – POTENSIELLE SKADER: Litiumbatteriet i dette produktet er ikke beregnet for å byttes. Det er fare for eksplosjon hvis litiumbatteriet skiftes ut på feil måte. Ikke lad opp, demonter eller destruer et litiumbatteri. Kast brukte litiumbatterier i henhold til produsentens instruksjoner og lokale regelverk.

Säkerhetsinformation

- Säkerheten för denna produkt baseras på tester och godkännanden av ursprungsdesignen och av specifika komponenter. Tillverkaren har inget ansvar vid användning av oauktoriserade reservdelar.
- Underhållsinformationen för produkten är avsedd att användas av utbildade servicetekniker och inte avsedd att användas av andra.
- Risken för elektriska stötar och personskador kan vara förhöjd vid isärtagning och service av produkten. Professionell servicepersonal bör vara medvetna om denna risk och vidta nödvändiga försiktighetsåtgärder.



VAR FÖRSIKTIG– RISK FÖR ELEKTRISK STÖT: När du ser denna symbol är det risk att det finns farlig spänning i den del av produkten du arbetar med. Koppla från strömmen innan du börjar, eller var försiktig om produkten måste vara strömförsörjd för att uppgiften ska kunna utföras.




VAR FÖRSIKTIG – RISK FÖR SKADA: Litiumbatteriet i produkten är inte utbytbart. Om ett litiumbatteri byts ut på fel sätt finns det risk att det exploderar. Du får inte ladda om, ta isär eller elda upp ett litiumbatteri. Gör dig av med använda litiumbatterier enligt tillverkarens instruktioner och lokala föreskrifter.

安全情報

- 本製品の安全性は、本来の設計、特定コンポーネントの試験、承認に基づいています。承認されていない交換部品をお客様が使用した場合、メーカーは安全性に対して責任を負いません。
- 本製品のメンテナンス情報は、専門のサービス担当者による利用を目的としており、その他の人を対象としていません。
- 本製品の分解や保守サービスを行う場合は、感電や傷害の危険性があります。専門のサービス担当者はこの危険性を理解し、十分な対策を講じる必要があります。





注意—感電危険: この表記がある場合、対象製品の作業領域には、高電圧による危険性が生じています。作業を始める前に、製品から電源コードを取り外してください。また作業時に、製品に給電する必要がある場合は、十分に注意するようにしてください。

 **注意—傷害の恐れあり:** この製品に使用されているリチウム電池は、交換を前提としていません。リチウム電池の交換を誤ると破裂する危険性があります。リチウム電池の充電、解体、焼却はしないでください。使用済みのリチウム電池を廃棄する際は、製造元の指示およびお使いの地域の法律に従ってください。

안전 정보


- 이 제품의 안전은 기본 디자인 및 특정 구성품의 승인 및 테스트를 기반으로 합니다. 제조업체는 권한 없는 교체 부품 사용 시 안전에 대해 책임을 지지 않습니다.
- 이 제품의 유지관리 정보는 전문 서비스 요원을 대상으로 하며 다른 사람은 사용할 수 없습니다.
- 제품 분해 및 서비스 중에는 감전 및 상해 위험이 증가할 수 있습니다. 전문 서비스 요원은 이와 같은 위험을 이해하고 필요한 예방 조치를 취해야 합니다.


 **주의—감전 위험:** 이 기호가 표시된 경우 작업 중인 제품 주변에서 위험 전압 위험이 있습니다. 사용 전/후에 전원 코드를 뽑아 두시고 제품에서 작업을 수행하는 데 반드시 전원이 필요한 경우에는 주의하여 사용하십시오.

 **주의—상해 위험:** 이 제품에 들어 있는 리튬 배터리는 교체할 수 없습니다. 리튬 배터리를 잘못 교체하면 폭발할 위험이 있습니다. 리튬 배터리를 충전, 분해하거나 불에 태우지 마십시오. 제조업체의 지침과 지역 규정에 따라 다 쓴 리튬 배터리를 폐기하십시오.

安全信息


- 本产品的安全性以原始设计和特定组件的测试和审批为基础。如果使用未经授权的替换部件，制造商不对安全性负责。
- 本产品的维护信息仅供专业服务人员使用，并不打算由其他人使用。
- 本产品在拆卸和维修时，遭受电击和人员受伤的危险性会增高。专业服务人员对这点必须有所了解，并采取必要的预防措施。


 **小心—电击危险:** 当您看到此符号时，在您工作的产品区域内存在危险电压的威胁。在您开始操作之前请拔掉产品电源，如果产品必须接收功率才能执行任务，请务必谨慎操作。

 **小心—可能的伤害:** 本产品中的锂电池不可更换。如果不正确更换锂电池，可能会有爆炸危险。不要再充电、拆解或焚烧锂电池。丢弃旧的锂电池时应按照制造商的指导及当地法规进行处理。


安全資訊




- 本產品安全性係以原始設計及特定元件之測試與核准為依據。如有使用未獲授權替換組件之情形者，製造商對安全性概不負責。
- 本產品之維護資訊僅供專業維修人員使用，而非預定由他人使用。
- 拆裝及維修本產品時，有可能造成電擊與人員損傷之危險。專業維修人員應瞭解前項危險並採取必要措施。

 **請當心—觸電危險:** 當您看到此符號時，表示您所在產品工作區有危險電壓。開始工作之前，請先拔掉產品電源線，若產品必須接上電源方能執行作業，用電時請務必小心。

 **請當心—潛在受傷危險性:** 本產品中的鋰電池原本並不需要予以更換。若未正確更換鋰電池，可能會有爆炸的危險。請勿將鋰電池充電、拆裝或焚燒。請遵照製造商的指示及當地法規，丟棄用過的電池。

General caution statements

 **CAUTION—POTENTIAL INJURY:** To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

-  **CAUTION—POTENTIAL INJURY:** To avoid the risk of fire or electrical shock, use only the power cord provided with this product or the manufacturer's authorized replacement.
-  **CAUTION—POTENTIAL INJURY:** Do not use this product with extension cords, multioutlet power strips, multioutlet extenders, or UPS devices. The power capacity of these types of accessories can be easily overloaded by a laser printer and may result in a risk of fire, property damage, or poor printer performance.
-  **CAUTION—POTENTIAL INJURY:** Only a Lexmark Inline Surge Protector that is properly connected between the printer and the power cord provided with the printer may be used with this product. The use of non-Lexmark surge protection devices may result in a risk of fire, property damage, or poor printer performance.

Change history

Change history

August 31, 2018

- Removed the ADF scanner unit assembly from the Parts catalog chapter.

August 16, 2018

- Updated the removal procedure link for PN 41X1590 in the ADF paper transport 5 assembly of the Parts catalog chapter.

August 10, 2018

- Added PN 41X2534 in the 2500-sheet tray—Paper transport assembly of the Parts catalog chapter.
- Updated the description of PN 41X1600 in all instances in the Parts catalog chapter.
- Updated the Data security notice topic in the Parts removal chapter.
- Added the 611.0x error codes and service check in the Diagnostics and troubleshooting chapter.
- Added the 843.01 error code and service check in the Diagnostics and troubleshooting chapter.
- Updated the Engine board removal topic in the Parts removal chapter.

May 9, 2018

- Updated the 12y error messages table in the Diagnostics and troubleshooting chapter.

April 4, 2018

- Updated the following topics in the Diagnostics and troubleshooting chapter:
 - C developer toner density failure service check
 - M developer toner density failure service check
 - Y developer toner density failure service check
 - K developer toner density failure service check

March 9, 2018

- Added the 6yy error messages and service checks in the Diagnostics and troubleshooting chapter.
- Updated the 9yy error messages and service checks in the Diagnostics and troubleshooting chapter.
- ADF scanner open error service check was added to address 680.10 errors.

November 13, 2017

- Updated the Miscellaneous section in the Parts catalog chapter.

October 18, 2017

- Updated PN 41X0052 to 41X2276 in the Parts catalog chapter.

October 11, 2017

- Updated the User attendance messages topics in the Diagnostics and troubleshooting chapter.

September 5, 2017

- Added the following removal topics:
 - Speaker removal
 - Right door switch removal
- Updated the Maintenance kits topic in the Maintenance chapter.
- Updated the Transfer belt removal topic in the Parts removal chapter.

General information

Printer model configurations

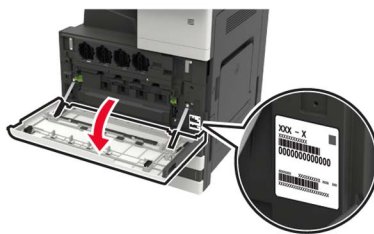
The Lexmark™ CX920de, CX921de, CX927de, XC9225, and XC9235 are network-capable multi-function, color A3 laser printers. The printers support duplex printing and scanning. Each has a 10-inch touch screen display and is embedded with home screen solutions and applications. All information in this service manual pertains to all models unless explicitly noted.

The printers are available in the following models:

| Model | Configurations | Machine type/model number |
|---------|---|---------------------------|
| CX920de | 10-in. color touch screen display, duplex print, duplex scan, networking, e-Task, hard disk | 7559-078 |
| CX921de | 10-in. color touch screen display, duplex print, duplex scan, networking, e-Task, hard disk | 7559-178 |
| CX927de | 10-in. color touch screen display, duplex print, duplex scan, networking, e-Task, hard disk | 7559-178 |
| XC9225 | 10-in. color touch screen display, duplex print, duplex scan, networking, e-Task, hard disk | 7559-098 |
| XC9235 | 10-in. color touch screen display, duplex print, duplex scan, networking, e-Task, hard disk | 7559-198 |

Finding the serial number

Open door A, and then find the serial number at the right side of the printer.



Supported paper sizes, types, and weights

The following tables provide information on standard and optional paper sources and the sizes, types, and weights of paper they support.

Note: For an unlisted paper size, select the closest *larger* listed size.

Paper sizes supported by the printer

Paper sizes supported by the trays and multipurpose feeder

| Paper size | Dimensions | Standard 500-sheet tray (Tray 1) | Standard 500-sheet tray (Tray 2) | 2 x 500-sheet tray | 2500-sheet tray | 3000-sheet tray | Multipurpose feeder ³ | Two-sided printing |
|------------------|----------------------------------|----------------------------------|----------------------------------|--------------------|-----------------|-----------------|----------------------------------|--------------------|
| A4 | 210 x 297 mm (8.3 x 11.7 in.) | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ² | ✓ |
| A5 | 148 x 210 mm (5.8 x 8.3 in.) | ✓ ¹ | ✓ ¹ | ✓ ¹ | ✗ | ✗ | ✓ | ✓ |
| A6 | 105 x 148 mm (4.1 x 5.8 in.) | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ ¹ | ✓ |
| JIS B5 | 182 x 257 mm (7.2 x 10.1 in.) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| Letter | 216 x 279 mm (8.5 x 11 in.) | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ | ✓ |
| Legal | 216 x 356 mm (8.5 x 14 in.) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| Executive | 184 x 267 mm (7.3 x 10.5 in.) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| JIS B4 | 257 x 364 mm (10.12 x 14.33 in.) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| SRA3 | 320 x 450 mm (12.6 x 17.7 in.) | ✗ | ✓ ¹ | ✗ | ✗ | ✗ | ✓ ¹ | ✓ |
| A3 | 297 x 420 mm (11.69 x 16.54 in.) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| 12 x 18 | 305 x 457 mm (12 x 18 in.) | ✗ | ✓ ¹ | ✗ | ✗ | ✗ | ✓ ¹ | ✓ |

¹ Supported only in short-edge orientation.

² Supported only in long-edge orientation.

³ Supports paper size without *size sensing*.

⁴ Supported only if the width is from 139.7 mm (5.5 in.) to 320 mm (12.6 in.), and the length is from 148 mm (5.83 in.) to 458 mm (18 in.).

Note: Banner is supported in the multipurpose feeder only if the width is up to 296.9 mm (11.69 in.), and the length is up to 1219.2 mm (48 in.). Set the paper size to Universal.

| Paper size | Dimensions | Standard 500-sheet tray (Tray 1) | Standard 500-sheet tray (Tray 2) | 2 x 500-sheet tray | 2500-sheet tray | 3000-sheet tray | Multipurpose feeder ³ | Two-sided printing |
|-----------------------|--|----------------------------------|----------------------------------|--------------------|-----------------|-----------------|----------------------------------|--------------------|
| 11 x 17 | 279.4 x 431.8 mm (11 x 17 in.) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| Oficio | 216 x 340 mm (8.5 x 13.4 in.) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| Folio | 216 x 330 mm (8.5 x 13 in.) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ |
| Statement | 140 x 216 mm (5.5 x 8.5 in.) | ✓ ¹ | ✓ ¹ | ✓ ¹ | ✗ | ✗ | ✓ | ✓ |
| Universal | 90 x 139.7 mm (3.54 x 5.5 in.) to 320 x 1200 mm (12.6 x 47.24 in.) | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ ⁴ |
| 7 3/4 Envelope | 98 x 191 mm (3.9 x 7.5 in.) | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ |
| 9 Envelope | 98 x 225 mm (3.9 x 8.9 in.) | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ |
| 10 Envelope | 105 x 241 mm (4.1 x 9.5 in.) | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ |
| DL Envelope | 110 x 220 mm (4.3 x 8.7 in.) | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ |
| C5 Envelope | 162 x 229 mm (6.4 x 9 in.) | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ |
| B5 Envelope | 176 x 250 mm (6.9 x 9.8 in.) | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ |
| Other Envelope | Maximum: 297 x 427.6 mm (11.69 x 16.83 in.) | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ |

¹ Supported only in short-edge orientation.

² Supported only in long-edge orientation.

³ Supports paper size without *size sensing*.

⁴ Supported only if the width is from 139.7 mm (5.5 in.) to 320 mm (12.6 in.), and the length is from 148 mm (5.83 in.) to 458 mm (18 in.).

Note: Banner is supported in the multipurpose feeder only if the width is up to 296.9 mm (11.69 in.), and the length is up to 1219.2 mm (48 in.). Set the paper size to Universal.

Paper sizes supported by the ADF and scanner glass

| Paper size | Dimensions | ADF | Scanner glass |
|-----------------------|---|------------------|------------------|
| Business card | | X | ✓ ^{1,2} |
| 3 x 5 | 76.2 x 127 mm (3 x 5 in.) | X | ✓ ^{1,2} |
| Hagaki | 100 x 148 mm (3.94 x 5.83 in.) | ✓ | ✓ |
| 4 x 6 | 101.6 x 152.4 mm (4 x 6 in.) | ✓ ² | ✓ ^{1,2} |
| A4 | 210 x 297 mm (8.3 x 11.7 in.) | ✓ | ✓ |
| A5 | 148 x 210 mm (5.8 x 8.3 in.) | ✓ | ✓ ² |
| A6 | 105 x 148 mm (4.1 x 5.8 in.) | ✓ ^{1,2} | ✓ ^{1,2} |
| JIS B5 | 182 x 257 mm (7.2 x 10.1 in.) | ✓ | ✓ |
| Letter | 216 x 279 mm (8.5 x 11 in.) | ✓ | ✓ |
| Legal | 216 x 356 mm (8.5 x 14 in.) | ✓ | ✓ |
| Executive | 184 x 267 mm (7.3 x 10.5 in.) | ✓ | ✓ |
| JIS B4 | 257 x 364 mm (10.12 x 14.33 in.) | ✓ | ✓ |
| SRA3 | 320 x 450 mm (12.6 x 17.7 in.) | X | X |
| A3 | 297 x 420 mm (11.69 x 16.54 in.) | ✓ | ✓ |
| 12 x 18 | 305 x 457 mm (12 x 18 in.) | X | X |
| 11 x 17 | 279.4 x 431.8 mm (11 x 17 in.) | ✓ | ✓ |
| Oficio | 216 x 340 mm (8.5 x 13.4 in.) | ✓ ² | ✓ ² |
| Folio | 216 x 330 mm (8.5 x 13 in.) | ✓ | ✓ |
| Statement | 140 x 216 mm (5.5 x 8.5 in.) | ✓ | ✓ |
| Universal | 89 x 98.4 mm (3.50 x 3.87 in.) to 297 x 431.8 mm (11.69 x 17.00 in.) | ✓ ² | ✓ ² |
| 7 3/4 Envelope | 98 x 191 mm (3.9 x 7.5 in.) | X | X |
| 9 Envelope | 98 x 225 mm (3.9 x 8.9 in.) | X | X |
| 10 Envelope | 105 x 241 mm (4.1 x 9.5 in.) | X | X |
| DL Envelope | 110 x 220 mm (4.3 x 8.7 in.) | X | X |
| C5 Envelope | 162 x 229 mm (6.4 x 9 in.) | X | X |
| B5 Envelope | 176 x 250 mm (6.9 x 9.8 in.) | X | X |
| Other Envelope | 98 x 162 mm (3.9 x 6.3 in.) to 176 x 250 mm (6.9 x 9.8 in.) | X | X |

¹ Supported only in short-edge orientation.² Supports paper size without *size sensing*.

| Paper size | Dimensions | ADF | Scanner glass |
|--|------------|----------------|----------------|
| Custom Scan Size [x] | | √ ² | √ ² |
| ¹ Supported only in short-edge orientation. ² Supports paper size without <i>size sensing</i> . | | | |

Paper types and weights supported by the printer

The printer engine supports 60–256-g/m² (16–68-lb) paper weights.

Note: Labels, transparencies, envelopes, and card stock always print at reduced speed.

| Paper type | Standard 500-sheet tray (Tray 1) | Standard 500-sheet tray (Tray 2) | 2 x 500-sheet tray | 2500-sheet tray | 3000-sheet tray | Multipurpose feeder | ADF | Scanner |
|--|----------------------------------|----------------------------------|--------------------|-----------------|-----------------|---------------------|-----|---------|
| Plain Paper ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Card Stock ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Transparencies ² | X | X | X | X | X | √ | √ | √ |
| Recycled ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Glossy ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Heavy Glossy ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Labels | X | X | X | X | X | √ | √ | √ |
| Vinyl Labels | X | X | X | X | X | X | √ | √ |
| Bond ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Envelope | X | X | X | X | X | √ | √ | √ |
| Rough Envelope | X | X | X | X | X | √ | √ | √ |
| Letterhead ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Preprinted ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Colored Paper ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Light Paper ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Heavy Paper ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| Rough Cotton ¹ | √ | √ | √ | √ | √ | √ | √ | √ |
| ¹ Paper is supported for two-sided printing. ² Print transparencies in batches of only up to 20 to prevent them from sticking together. | | | | | | | | |

| Paper type | Standard 500-sheet tray (Tray 1) | Standard 500-sheet tray (Tray 2) | 2 x 500-sheet tray | 2500-sheet tray | 3000-sheet tray | Multipurpose feeder | ADF | Scanner |
|--------------------------|----------------------------------|----------------------------------|--------------------|-----------------|-----------------|---------------------|-----|---------|
| Custom Type ¹ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

¹ Paper is supported for two-sided printing.

² Print transparencies in batches of only up to 20 to prevent them from sticking together.

Paper sizes, types, and weights supported by the finishers

The printer engine supports 60–256 g/m² (16–68-lb) paper weights.

Note: When a finisher is installed, the standard finisher bin becomes the default bin even for print jobs that do not require finishing.

Supported paper sizes

| Paper size | Staple finisher | Staple, hole punch finisher bin 1 | Staple, hole punch finisher bin 2 | Booklet finisher |
|------------|-----------------|-----------------------------------|-----------------------------------|------------------|
| A6 | ✓ ³ | ✓ ³ | X | X |
| A5 | ✓ ³ | ✓ ³ | ✓ ² | X |
| JIS B5 | ✓ | ✓ | ✓ | X |
| JIS B4 | ✓ | ✓ | ✓ | ✓ |
| Executive | ✓ | ✓ | ✓ | X |
| Letter | ✓ | ✓ | ✓ | ✓ |
| A4 | ✓ | ✓ | ✓ | ✓ |
| Legal | ✓ | ✓ ⁴ | ✓ | ✓ |
| 12 x 18 | ✓ ¹ | ✓ ³ | ✓ ¹ | ✓ |
| 11 x 17 | ✓ | ✓ | ✓ | ✓ |
| SRA3 | ✓ ¹ | ✓ ³ | ✓ ¹ | ✓ |
| A3 | ✓ | ✓ | ✓ | ✓ |
| Oficio | ✓ ¹ | ✓ ³ | ✓ ³ | X |

¹ Paper is supported only if the finisher stacks the paper but does not staple or punch holes in it.

² Paper is supported only if the finisher stacks or staples the paper but does not punch holes in it.

³ Paper is supported but the finisher does not stack, staple, or punch holes in it.

⁴ Paper is supported only for two-hole punch.

⁵ Paper is supported only if the paper size is between 210 x 279.4 mm (8.27 x 11 in.) and 320 x 457.2 mm (12.6 x 18 in.).

| Paper size | Staple finisher | Staple, hole punch finisher bin 1 | Staple, hole punch finisher bin 2 | Booklet finisher |
|------------------|-----------------|-----------------------------------|-----------------------------------|------------------|
| Folio | ✓ ¹ | ✓ ³ | ✓ ³ | X |
| Statement | ✓ ¹ | ✓ ³ | ✓ ³ | X |
| Universal | ✓ | ✓ ³ | ✓ ¹ | ✓ ⁵ |

¹ Paper is supported only if the finisher stacks the paper but does not staple or punch holes in it.

² Paper is supported only if the finisher stacks or staples the paper but does not punch holes in it.

³ Paper is supported but the finisher does not stack, staple, or punch holes in it.

⁴ Paper is supported only for two-hole punch.

⁵ Paper is supported only if the paper size is between 210 x 279.4 mm (8.27 x 11 in.) and 320 x 457.2 mm (12.6 x 18 in.).

Supported paper types

| Paper type | Staple finisher | Staple, hole punch finisher | Booklet finisher |
|---------------------------------|------------------|-----------------------------|------------------|
| Plain Paper | ✓ | ✓ | ✓ ⁴ |
| Card Stock | ✓ ² | ✓ ² | X |
| Transparency¹ | ✓ _c | ✓ ^{2,3,5} | X |
| Recycled | ✓ | ✓ | ✓ ⁴ |
| Glossy | ✓ | ✓ | ✓ ⁴ |
| Heavy Glossy | ✓ ² | ✓ ² | X |
| Labels | ✓ ^{2,5} | ✓ ^{2,3,5} | X |
| Bond | ✓ | ✓ | ✓ ⁴ |
| Envelope | ✓ ^{2,5} | ✓ ^{2,3,5} | X |
| Rough Envelope | ✓ ² | ✓ ^{2,3,5} | X |
| Letterhead | ✓ | ✓ | ✓ ⁴ |
| Preprinted | ✓ | ✓ | ✓ ⁴ |
| Colored Paper | ✓ | ✓ | ✓ ⁴ |
| Light Paper | ✓ | ✓ | ✓ ⁴ |
| Heavy Paper | ✓ ² | ✓ ² | X |

¹ Print on transparencies by batches of only up to 20 to prevent them from sticking together.

² Paper is supported only if the finisher does not staple it.

³ Paper is supported only if the finisher does not punch holes in it.

⁴ Paper is supported only if the finisher staples or folds the paper

⁵ Offset is not supported.

| Paper type | Staple finisher | Staple, hole punch finisher | Booklet finisher |
|---------------------|-----------------|-----------------------------|------------------|
| Rough Cotton | √ ² | √ ² | X |
| Custom Type | √ | √ | √ ⁴ |

¹ Print on transparencies by batches of only up to 20 to prevent them from sticking together.

² Paper is supported only if the finisher does not staple it.

³ Paper is supported only if the finisher does not punch holes in it.

⁴ Paper is supported only if the finisher staples or folds the paper

⁵ Offset is not supported.

Data security notice

Identifying printer memory

- **Volatile memory**—The printer uses standard random access memory (RAM) to buffer user data temporarily during simple print and copy jobs.
- **Non-volatile memory**—The printer may use two forms of non-volatile memory: EEPROM and NAND (flash memory). Both types are used to store the operating system, printer settings, network information, scanner and bookmark settings, and embedded solutions.
- **Hard disk memory**—Some printers have a hard disk drive installed. The printer hard disk is designed for printer-specific functionality and cannot be used for the long-term storage of data that is not print-related. The hard disk does not provide the capability for users to extract information, create folders, create disk or network file shares, or transfer FTP information directly from a client device. The hard disk can retain buffered user data from complex print jobs, form data, and font data.

The following parts can store memory:

- Printer control panel
- User interface controller card (UICC)
- Controller board
- Optional hard disks

Note: The printer control panel and controller board contain NVRAM.

Erasing printer memory

To erase volatile memory, turn off the printer.

To erase non-volatile memory:

- 1 From the home screen, touch **Settings > Device > Maintenance > Out of Service Erase > Sanitize all information on nonvolatile memory**.
- 2 Select a setting to adjust.

To erase the hard disk memory:

- 1 From the home screen, touch **Settings > Device > Maintenance > Out of Service Erase > Sanitize all information on hard disk**.
- 2 Select a setting to adjust.





Notes:

- This process can take from several minutes to more than an hour, making the printer unavailable for other tasks.
- After removing the hard disk, return it to the next level of support.

Tools required for service

- Flat-blade screwdrivers, various sizes
- #1 Phillips screwdriver, magnetic
- #2 Phillips screwdriver, magnetic
- #2 Phillips screwdriver, magnetic short-blade
- Torx™ screwdriver (T20 head)
- Needle-nose pliers
- Diagonal side cutters
- Spring hook
- Feeler gauges
- Analog or digital multimeter
- 3-mm ball hex wrench
- Toner vacuum
- Flashlight

Diagnostics and troubleshooting

-  **CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock and to prevent damage to the printer, remove the power cord from the electrical outlet and disconnect all connections to any external devices before you connect or disconnect any cable, electronic board, or assembly.
-  **CAUTION—POTENTIAL INJURY:** The printer weighs 89–135 kg (195–185 lb) and requires four trained personnel to lift it safely. Always use the handholds on the printer to lift it. Make sure that your fingers are not under the printer when you lift or set the printer down.
-  **CAUTION—HOT SURFACE:** The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.
-  **CAUTION—PINCH HAZARD:** To avoid the risk of a pinch injury, use caution in areas marked with this label. Pinch injuries may occur around moving parts, such as gears, doors, trays, and covers.

Troubleshooting overview

Performing the initial troubleshooting check

- With the power cord unplugged from the electrical outlet, check if the cord is free from breakage, short circuits, disconnected wires, or incorrect connections.
- Make sure that the printer is properly grounded.
- Make sure that the power supply line voltage is within 10% of the rated line voltage.
- Make sure that the printer is securely installed on a level surface in a well-ventilated area.
- Make sure that the temperature and relative humidity are within the specifications. See [“Temperature information” on page 1182](#).
- Avoid locations that:
 - Generate ammonia gas
 - Are exposed to direct sunlight
 - Are near open flames
 - Are dusty
- Make sure that the recommended paper for this printer is used.
- Do a test print with paper from a newly opened package, and then check the result.

Fixing print quality issues

Initial print quality check

Before troubleshooting print problems, perform the following:

- Make sure that the printer is located in an area that follows the recommended operating environment and power requirement specifications.
- Check the status of supplies. Replace supplies that are low or empty.
- Load 20-lb plain letter or A4 paper. Make sure that the paper guides are properly set and locked. From the control panel, set the paper size and type to match the paper loaded in the tray.
- Print and keep the menu settings page. The original menu settings page is used to restore the custom settings if necessary.
- Make sure that the Print resolution and Toner darkness on the menu settings page are set to their default values.
- Check the transfer roller, toner cartridge, and transfer belt for damage, and replace if necessary.
- Print the advanced print quality samples to see if the problem remains. Use tray 1 to test print quality problems. Look for variations in the print from what is expected.
- Make sure that the correct print driver is used to prevent print problems. If the wrong print driver is installed, then incorrect characters could print and the copy may not fit the page correctly.

Horizontal colored lines or banding check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 2. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 2 Perform the repeating defects check. See “Repeating defects check” on page 74. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the affected photoconductor. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the transfer belt. See “Transfer belt removal” on page 438. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Replace the transfer roller. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 11. | Go to step 10. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 10 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Reseat the fuser. b Clear the fuser of contamination. c Reseat the fuser cable connectors on both ends. d Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Contact the next level of support. | Go to step 14. |
| Step 14 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Vertical colored lines check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the affected photoconductor. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 8. | Go to step 7. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 7 Replace the transfer roller. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Reseat the fuser. b Clear the fuser of contamination. c Reseat the fuser cable connectors on both ends. d Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Clean the printhead lens. b Reseat all printhead cable connectors on both ends. c Check the printhead for proper installation and damage. Is the printhead properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the printhead. See “Printhead removal” on page 424 . Does the problem remain? | Go to step 14. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 14 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Contact the next level of support. | Go to step 15. |
| Step 15 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Vertical white lines check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the affected photoconductor. Does the problem remain? | Go to step 4. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 4 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the transfer roller. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Reseat the fuser. b Clear the fuser of contamination. c Reseat the fuser cable connectors on both ends. d Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Go to step 12. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 12 a Clean the printhead lens. b Reseat all printhead cable connectors on both ends. c Check the printhead for proper installation and damage. Is the printhead properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the printhead. See “Printhead removal” on page 424. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Contact the next level of support. | Go to step 15. |
| Step 15 Replace the HVPS. See “High voltage board removal” on page 627. Does the problem remain? | Contact the next level of support. | The problem is solved. |

White spots check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, touch Settings > Device > Preferences. b Check if the paper type and size settings match the paper type and size set on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size settings in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|---|---------------|------------------------|
| <p>Step 3</p> <p>a Reseat the following components:</p> <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt <p>b Use the brush provided to clean the printhead.</p> <p>c Clean toner spills inside the printer.</p> <p>d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages</p> <p>e Check the test pages.</p> <p>Does the problem remain?</p> | Go to step 4. | The problem is solved. |
| <p>Step 4</p> <p>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization</p> <p>b Touch Start beside Image stabilization only.</p> <p>c Wait for the test to complete, and then touch OK.</p> <p>Does the problem remain?</p> | Go to step 5. | The problem is solved. |
| <p>Step 5</p> <p>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Transfer voltage fine adjustment</p> <p>b Adjust the voltage of the affected color.</p> <p>c Navigate to Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization.</p> <p>d Touch Start beside Image stabilization only.</p> <p>e Wait for the test to complete, and then touch OK.</p> <p>f Perform a print test.</p> <p>Does the problem remain?</p> | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 6 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > 2nd transfer adjustment b Adjust the voltage of each paper type. c Navigate to Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization . d Touch Start beside Image stabilization only. e Wait for the test to complete, and then touch OK . f Perform a print test. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Initialize + image stabilization. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the affected photoconductor. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 12. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 12 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the transfer roller. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 18. | Go to step 17. |
| Step 17 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Initialize + image stabilization. c Wait for the test to complete, and then touch OK . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Missing color check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, touch Settings > Device > Preferences . b Check if the paper type and size settings match the paper type and size set on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size settings in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Manual toner add b Touch Start for each color setting. c Check if the following motors run: <ul style="list-style-type: none"> • Motor (C toner supply) • Motor (M toner supply) • Motor (Y toner supply) • Motor (K toner supply) • Motor (CK toner cartridge) • Motor (MY toner cartridge) Did all the motors run? | Go to step 6. | Go to step 5. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 5 Replace the toner supply motor and toner cartridge motor of the affected color. See “Motor (C toner supply) removal” on page 635 , “Motor (M toner supply) removal” on page 636 , “Motor (Y toner supply) removal” on page 637 , “Motor (K toner supply) removal” on page 597 , “Motor (CK toner cartridge) removal” on page 633 , or “Motor (MY toner cartridge) removal” on page 634 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the affected photoconductor. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the developer unit of the affected color. See “Image controller board removal” on page 571 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 12. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 12 Check the toner cartridge relay contact cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the toner cartridge relay contact cable. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 a Make sure that the developer toner inlet is properly connected to the toner agitator. b Check the toner agitator for proper installation and damage. Is the toner agitator properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the toner agitator. See “Toner agitator removal” on page 592. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Clear the high voltage developer contact of contamination. b Check the high voltage developer contact for proper installation and damage. Is the high voltage developer contact properly installed and free of damage? | Go to step 18. | Go to step 17. |
| Step 17 Replace the high voltage developer contact. See “High voltage developer contact removal” on page 650. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 a Clear the high voltage contact of contamination. b Check the high voltage contact for proper installation and damage. Is the high voltage contact properly installed and free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Replace the high voltage contact. See “High voltage contact removal” on page 674. Does the problem remain? | Go to step 20. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 20 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 22. | Go to step 21. |
| Step 21 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 24. |
| Step 24 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Mottled prints and dots check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a From the home screen, touch Settings > Device > Preferences . b Check if the paper type and size settings match the paper type and size set on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size settings in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|--|---------------|------------------------|
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Transfer voltage fine adjustment b Adjust the voltage of the affected color. c Navigate to Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization . d Touch Start beside Image stabilization only. e Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the affected photoconductor. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 9. | Go to step 8. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 8 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the transfer roller. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Clean the printhead lens. b Reseat all printhead cable connectors on both ends. c Check the printhead for proper installation and damage. Is the printhead properly installed and free of damage? | Contact the next level of support. | Go to step 14. |
| Step 14 Replace the printhead. See “Printhead removal” on page 424 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Blurred print or misaligned color check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, touch Settings > Device > Preferences . b Check if the paper type and size settings match the paper type and size set on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size settings in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Registration adjust b Adjust the setting of the affected paper source. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Color registration adjust b Adjust the setting of the affected color. Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 6 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Initialize + image stabilization. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the image controller board. See “Image controller board removal” on page 571 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Clean the printhead lens. b Reseat all printhead cable connectors on both ends. c Check the printhead for proper installation and damage. Is the printhead properly installed and free of damage? | Contact the next level of support. | Go to step 11. |
| Step 11 Replace the printhead. See “Printhead removal” on page 424 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Gapping or half color page check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the affected photoconductor. Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 6 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the transfer roller. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Contact the next level of support. | Go to step 9. |
| Step 9 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Ghost images check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a From the home screen, touch Settings > Device > Preferences . b Check if the paper type and size settings match the paper type and size set on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size settings in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|--|---------------|------------------------|
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Image stabilization only. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the affected photoconductor. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 9. | Go to step 8. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 8 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Clear the high voltage developer contact of contamination. b Check the high voltage developer contact for proper installation and damage. Is the high voltage developer contact properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the high voltage developer contact. See “High voltage developer contact removal” on page 650 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Clear the high voltage contact of contamination. b Check the high voltage contact for proper installation and damage. Is the high voltage contact properly installed and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the high voltage contact. See “High voltage contact removal” on page 674 . Does the problem remain? | Go to step 15. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 15 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Contact the next level of support. | Go to step 16. |
| Step 16 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Color reproduction error check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, touch Settings > Device > Preferences . b Check if the paper type and size settings match the paper type and size set on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size settings in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 4 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the affected photoconductor. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the transfer roller. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 12. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 12 a Check the sensor (front toner density) and sensor (rear toner density) for proper installation and damage. b Reseat the sensor cable connectors on both ends. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Replace the damaged sensor. See “Sensor (front toner density) removal” on page 523 or “Sensor (rear toner density) removal” on page 525 . Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Image stabilization only. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 17. | Go to step 16. |
| Step 16 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 20. | Go to step 19. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 19 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Initialize + image stabilization. c Wait for the test to complete, and then touch OK . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Repeating defects check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, touch Settings > Device > Preferences . b Check if the paper type and size settings match the paper type and size set on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size settings in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 4 Measure the distance between the repeating marks. Is the distance either 38 mm or 96 mm? | Go to step 5. | Go to step 6. |
| Step 5 Replace the affected photoconductor. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Measure the distance between the repeating marks. Is the distance 63 mm? | Go to step 7. | Go to step 8. |
| Step 7 Replace the transfer roller. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Measure the distance between the repeating marks. Is the distance 76 mm? | Go to step 9. | Go to step 10. |
| Step 9 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Measure the distance between the repeating marks. Is the distance 32 mm? | Go to step 11. | Go to step 12. |
| Step 11 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Measure the distance between the repeating marks. Is the distance 98 mm, 124 mm, or 158 mm? | Go to step 13. | Go to step 14. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 13 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 18. |
| Step 18 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Skewed print check

| Action | Yes | No |
|---|---------------|---------------|
| Step 1 a From the home screen, touch Settings > Device > Preferences . b Check if the paper type and size settings match the paper type and size set on the tray. Do the settings match? | Go to step 3. | Go to step 2. |

| Action | Yes | No |
|--|---------------|------------------------|
| Step 2 Change the paper size and type, or adjust the size settings in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the tray paper length guide for proper installation and damage. Is the tray paper length guide properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the tray paper length guide. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Check the tray insert for proper installation and damage. b Check the tray paper width guide for proper installation and damage. Is the tray insert and tray paper width guide properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the tray insert. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 8 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Image stabilization only. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Clear the printer paper path of obstructions and contamination. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Registration adjust b Adjust the setting of the affected paper source. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Color registration adjust b Adjust the setting of the affected color. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Clear the registration transport assembly of obstructions and contamination. b Check the registration transport assembly for proper installation and damage. Is the registration transport assembly properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the registration transport assembly. See “Registration transport assembly removal” on page 499 . Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 a Clean the printhead lens. b Reseat all printhead cable connectors on both ends. c Check the printhead for proper installation and damage. Is the printhead properly installed and free of damage? | Contact the next level of support. | Go to step 15. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 15 Replace the printhead. See “Printhead removal” on page 424. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Toner easily rubs off check

| Action | Yes | No |
|--|---------------|------------------------------------|
| Step 1 a From the home screen, touch Settings > Device > Preferences. b Check if the paper type and size settings match the paper type and size set on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size settings in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the paper for texture or rough finish. Is the paper textured or rough? | Go to step 4. | Go to step 5. |
| Step 4 Replace the textured or rough paper with plain paper. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Remove, and then reinstall the fuser. See “Fuser removal” on page 441. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Replace the fuser. See “Fuser removal” on page 441. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a From the home screen, touch Settings > Device > Maintenance > Configuration Menu > Reports > Event Log. b Check the event log for fuser error codes. Are there fuser error codes? | Go to step 8. | Contact the next level of support. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 8 Replace the main power supply. See “Main power supply removal” on page 423 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Back marking check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 6. | Go to step 5. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 5 Replace the transfer roller. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Reseat the fuser. b Clear the fuser of contamination. c Reseat the fuser cable connectors on both ends. d Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Contact the next level of support. | Go to step 7. |
| Step 7 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Blank or white pages check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Make sure that all the packing materials on the imaging unit are removed. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 3 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the affected photoconductor. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Replace the transfer roller. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 11. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 11 a Clear the high voltage contact of contamination. b Check the high voltage contact for proper installation and damage. Is the high voltage contact properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the high voltage contact. See “High voltage contact removal” on page 674 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Clear the high voltage developer contact of contamination. b Check the high voltage developer contact for proper installation and damage. Is the high voltage developer contact properly installed and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the high voltage developer contact. See “High voltage developer contact removal” on page 650 . Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 17. | Go to step 16. |
| Step 16 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (photoconductor), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 21. | Go to step 18. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 18 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Replace the motor. See “Motor (photoconductor) removal” on page 632. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (developer), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 25. | Go to step 22. |
| Step 22 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 25. | Go to step 24. |
| Step 24 Replace the motor. See “Motor (developer) removal” on page 631. Does the problem remain? | Go to step 25. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 25 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (transport), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 29. | Go to step 26. |
| Step 26 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 27. | The problem is solved. |
| Step 27 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 29. | Go to step 28. |
| Step 28 Replace the motor. See “Motor (transport) removal” on page 631 . Does the problem remain? | Go to step 29. | The problem is solved. |
| Step 29 a Clean the printhead lens. b Reseat all printhead cable connectors on both ends. c Check the printhead for proper installation and damage. Is the printhead properly installed and free of damage? | Go to step 31. | Go to step 30. |
| Step 30 Replace the printhead. See “Printhead removal” on page 424 . Does the problem remain? | Go to step 31. | The problem is solved. |
| Step 31 Check the main drive assembly for proper installation and damage. Is the main drive assembly properly installed and free of damage? | Go to step 33. | Go to step 32. |
| Step 32 Replace the main drive assembly. See “Main drive assembly removal” on page 654 . Does the problem remain? | Go to step 33. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 33 a Reseat all cable connectors on the main power supply. b Check the main power supply for proper installation and damage. Is the main power supply properly installed and free of damage? | Go to step 35. | Go to step 34. |
| Step 34 Replace the main power supply. See “Main power supply removal” on page 423 . Does the problem remain? | Go to step 35. | The problem is solved. |
| Step 35 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 36. | The problem is solved. |
| Step 36 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 37. |
| Step 37 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Blurred fine lines check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|--|---------------|------------------------|
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Image stabilization only. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the affected photoconductor. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 9. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 9 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 15. |
| Step 15 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Faulty image check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Check the sensor (front toner density) and sensor (rear toner density) for proper installation and damage. b Reseat the sensor cable connectors on both ends. Are the sensors properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the damaged sensor. See “Sensor (front toner density) removal” on page 523 or “Sensor (rear toner density) removal” on page 525 . Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 6 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Image stabilization only. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Transfer voltage fine adjustment b Adjust the voltage of the affected color. c Navigate to Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization . d Touch Start beside Image stabilization only. e Wait for the test to complete, and then touch OK . f Perform a print test. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the affected photoconductor. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the transfer roller. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 14. | Go to step 13. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 13 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 18. | Go to step 17. |
| Step 17 Replace the HVPS. See “High voltage board removal” on page 627 . Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 21. | Go to step 20. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 20 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Initialize + image stabilization. c Wait for the test to complete, and then touch OK . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Foggy background check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|--|---------------|------------------------|
| <p>Step 3</p> <p>a Reseat the following components:</p> <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt <p>b Use the brush provided to clean the printhead.</p> <p>c Clean toner spills inside the printer.</p> <p>d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages</p> <p>e Check the test pages.</p> <p>Does the problem remain?</p> | Go to step 4. | The problem is solved. |
| <p>Step 4</p> <p>a Check the sensor (front toner density) and sensor (rear toner density) for proper installation and damage.</p> <p>b Reseat the sensor cable connectors on both ends.</p> <p>Are the sensors properly installed and free of damage?</p> | Go to step 6. | Go to step 5. |
| <p>Step 5</p> <p>Replace the damaged sensor. See “Sensor (front toner density) removal” on page 523 or “Sensor (rear toner density) removal” on page 525.</p> <p>Does the problem remain?</p> | Go to step 6. | The problem is solved. |
| <p>Step 6</p> <p>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization</p> <p>b Touch Start beside Image stabilization only.</p> <p>c Wait for the test to complete, and then touch OK.</p> <p>Does the problem remain?</p> | Go to step 7. | The problem is solved. |
| <p>Step 7</p> <p>a Clean the photoconductor contacts of the affected color.</p> <p>b Check the photoconductor for proper installation and damage.</p> <p>Is the photoconductor properly installed and free of damage?</p> | Go to step 9. | Go to step 8. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 8 Replace the affected photoconductor. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Initialize + image stabilization. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 16. | Go to step 15. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 15 Replace the HVPS. See “High voltage board removal” on page 627. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 18. |
| Step 18 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Image bleeding check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|--|---------------|------------------------|
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Image stabilization only. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Replace the transfer roller. Does the problem remain? | Go to step 9. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 9 a Reseat the fuser. b Clear the fuser of contamination. c Reseat the fuser cable connectors on both ends. d Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Contact the next level of support. | Go to step 10. |
| Step 10 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Light print check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Image stabilization only. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the affected photoconductor. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Replace the transfer roller. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 13. | Go to step 12. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 12 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Check the sensor (front toner density) and sensor (rear toner density) for proper installation and damage. b Reseat the sensor cable connectors on both ends. Are the sensors properly installed and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the damaged sensor. See “Sensor (front toner density) removal” on page 523 or “Sensor (rear toner density) removal” on page 525 . Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Check the toner density solenoid for proper installation and damage. Is the toner density solenoid properly installed and free of damage? | Go to step 17. | Go to step 16. |
| Step 16 Replace the toner density solenoid. See “Toner density solenoid removal” on page 502 . Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Check the toner density solenoid shutter for proper installation and damage. Is the shutter properly installed and free of damage? | Go to step 19. | Go to step 18. |
| Step 18 Replace the registration transport assembly. See “Registration transport assembly removal” on page 499 . Does the problem remain? | Go to step 19. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 19 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Replace the HVPS. See “High voltage board removal” on page 627. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 23. |
| Step 23 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Moire image check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|--|---------------|------------------------|
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Check the sensor (front toner density) and sensor (rear toner density) for proper installation and damage. b Reseat the sensor cable connectors on both ends. Are the sensors properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the damaged sensor. See “Sensor (front toner density) removal” on page 523 or “Sensor (rear toner density) removal” on page 525 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Image stabilization only. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 9. | Go to step 8. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 8 Replace the affected photoconductor. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the transfer roller. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Reseat the developer unit of the affected color. b Reseat the developer unit cable. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 17. | Go to step 16. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 16 Replace the HVPS. See “High voltage board removal” on page 627. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Initialize + image stabilization. c Wait for the test to complete, and then touch OK . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Poor fusing performance check

| Action | Yes | No |
|--|---------------|---------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Reseat the fuser. b Clear the fuser of contamination. c Reseat the fuser cable connectors on both ends. d Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Reseat all cable connectors on the main power supply. b Check the main power supply for proper installation and damage. Is the main power supply properly installed and free of damage? | Contact the next level of support. | Go to step 7. |
| Step 7 Replace the main power supply. See “Main power supply removal” on page 423 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Uneven gloss check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Reseat the fuser. b Clear the fuser of contamination. c Reseat the fuser cable connectors on both ends. d Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 6 a Check the sensor (fuser temperature, front) and sensor (fuser temperature, rear) for proper installation and damage. b Reseat the sensor cable connectors on both ends. Are the sensors properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the damaged sensor. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Reseat all cable connectors on the main power supply. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 11. |
| Step 11 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Uneven print density check

| Action | Yes | No |
|--|---------------|---------------|
| Step 1 a From the home screen, navigate to: Settings > Device > Preferences b Check if the paper type and size settings match the paper type and size loaded on the tray. Do the settings match? | Go to step 3. | Go to step 2. |

| Action | Yes | No |
|--|---------------|------------------------|
| Step 2 Change the paper size and type, or adjust the size setting in the tray. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the following components: <ul style="list-style-type: none"> • Toner cartridge • Photoconductor • Transfer roller • Transfer belt b Use the brush provided to clean the printhead. c Clean toner spills inside the printer. d Print sample pages. Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages e Check the test pages. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Image stabilization only. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Clean the photoconductor contacts of the affected color. b Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the affected photoconductor. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Clear the transfer roller of contamination. b Check the roller for proper installation and damage. Is the roller properly installed and free of damage? | Go to step 9. | Go to step 8. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 8 Replace the transfer roller. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Clean the transfer belt contacts. b Check the transfer belt for proper installation and damage. Is the transfer belt properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the transfer belt. See “Transfer belt removal” on page 438 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Reseat the developer unit of the affected color. b Reseat the developer unit cable connector on both ends. c Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the developer unit of the affected color. See “Developer unit (Y) removal” on page 573 , “Developer unit (M) removal” on page 574 , “Developer unit (C) removal” on page 575 , or “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Check the sensor (front toner density) and sensor (rear toner density) for proper installation and damage. b Reseat the sensor cable connectors on both ends. Are the sensors properly installed and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the damaged sensor. See “Sensor (front toner density) removal” on page 523 or “Sensor (rear toner density) removal” on page 525 . Does the problem remain? | Go to step 15. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 15 Check the toner density solenoid for proper installation and damage. Is the toner density solenoid properly installed and free of damage? | Go to step 17. | Go to step 16. |
| Step 16 Replace the toner density solenoid. See “Toner density solenoid removal” on page 502. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Check the toner density solenoid shutter for proper installation and damage. Is the shutter properly installed and free of damage? | Go to step 19. | Go to step 18. |
| Step 18 Replace the registration transport assembly. See “Registration transport assembly removal” on page 499. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 a Reseat all cable connectors on the HVPS. b Make sure that the HVPS contact springs are properly connected to the HVPS. c Check the HVPS for proper installation and damage. Is the HVPS properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Replace the HVPS. See “High voltage board removal” on page 627. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustment > Imaging process adjustments > Image stabilization b Touch Start beside Initialize + image stabilization. c Wait for the test to complete, and then touch OK . Does the problem remain? | Go to step 22. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 22 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 24. |
| Step 24 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Fixing scan quality issues

Dark image scan check

| Actions | Yes | No |
|--|---------------|------------------------|
| Step 1 Print a test page using paper from a newly opened package, and then check the result. Are there dark image defects on the test page? | Go to step 2. | Go to step 3. |
| Step 2 Identify, and then resolve the print quality defect. See “Fixing print quality issues” on page 48 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Copy a document using the flatbed scanner. Does the scan defect occur on the front page? | Go to step 4. | Go to step 12. |
| Step 4 Clean the scanner glass and scanner glass pad. Does the problem remain? | Go to step 5. | The problem is solved. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 5 a Make sure that the scanner glass and scanner glass pad are aligned and flat. b Check if the flatbed and ADF are parallel with each other, and adjust if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the following components for damage: <ul style="list-style-type: none"> • Scanner glass • Scanner glass pad • ADF left and right hinges Are the components free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the damaged components. See “Scanner glass removal” on page 850 , “ADF right hinge removal” on page 749 , and “ADF left hinge removal” on page 750 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the following components for dirt and contamination: <ul style="list-style-type: none"> • Scanner CCD lens • Scanner mirrors • Scanner lamp Are the components free of dirt and contamination? | Go to step 10. | Go to step 9. |
| Step 9 Clean the affected components. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the following components for misalignment and damage: <ul style="list-style-type: none"> • Scanner CCD lens assembly • Scanner mirrors • Scanner lamp Are the components properly installed and free of damage? | Go to step 12. | Go to step 11. |

| Actions | Yes | No |
|---|----------------|---|
| Step 11 Reinstall or replace the affected components. See “Scanner mirror 1 removal” on page 867 , “Scanner mirror 2 removal” on page 870 , “Scanner mirror 3 removal” on page 872 , and “Scanner lamp removal” on page 869 . Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Copy a document in duplex using the ADF, and then check the results of the front page scan. Does the scan defect occur on the front page? | Go to step 13. | Go to step 16. |
| Step 13 Clean the following components: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the following components for damage: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Are the components free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the damaged component. See “Cleaning shaft removal” on page 833 and “Scan glass brush removal” on page 832 . Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the results of the back page scan. Does the scan defect occur on the back page? | Go to step 17. | The problem is not with the ADF or flatbed scanner. |
| Step 17 Clean the CIS glass and CIS glass clean shaft. Does the problem remain? | Go to step 18. | The problem is solved. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 18 Check the following components for damage: <ul style="list-style-type: none"> • CIS assembly • CIS glass clean shaft Are the components free of damage? | Contact the next level of support. | Go to step 19. |
| Step 19 Replace the affected components. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Vertical lines (scanning process direction) check

| Actions | Yes | No |
|---|---------------|------------------------|
| Step 1 Print a test page using paper from a newly opened package, and then check the result. Are there vertical line defects on the test page? | Go to step 2. | Go to step 3. |
| Step 2 Identify, and then resolve the print quality defect. See “Fixing print quality issues” on page 48 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Copy a document using the flatbed scanner. Does the scan defect occur on the front page? | Go to step 4. | Go to step 11. |
| Step 4 Clean the scanner glass and scanner glass pad. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the following components for damage: <ul style="list-style-type: none"> • Scanner glass • Scanner glass pad Are the components free of damage? | Go to step 7. | Go to step 6. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 6 Replace the damaged components. See “Scanner glass removal” on page 850 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the following components for dirt and contamination: <ul style="list-style-type: none"> • Scanner CCD lens • Scanner mirrors • Scanner lamp Are the components free of dirt and contamination? | Go to step 9. | Go to step 8. |
| Step 8 Clean the affected components. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the following components for damage: <ul style="list-style-type: none"> • Scanner CCD lens assembly • Scanner mirrors • Scanner lamp Are the components free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the affected components. See “Scanner mirror 1 removal” on page 867 , “Scanner mirror 2 removal” on page 870 , “Scanner mirror 3 removal” on page 872 , and “Scanner lamp removal” on page 869 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Copy a document in duplex using the ADF, and then check the results of the front page scan. Does the scan defect occur on the front page? | Go to step 12. | Go to step 15. |
| Step 12 Clean the following components: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Does the problem remain? | Go to step 13. | The problem is solved. |

| Actions | Yes | No |
|---|------------------------------------|---|
| Step 13 Check the following components for damage: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Are the components free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the damaged components. See “Cleaning shaft removal” on page 833 and “Scan glass brush removal” on page 832 . Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Check the results of the back page scan. Does the scan defect occur on the back page? | Go to step 16. | The problem is not with the ADF or flatbed scanner. |
| Step 16 Clean the CIS glass and CIS glass clean shaft. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Check the following components for damage: <ul style="list-style-type: none"> • CIS assembly • CIS glass clean shaft Are the components free of damage? | Contact the next level of support. | Go to step 18. |
| Step 18 Replace the affected components. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Horizontal lines (scanning process direction) check

| Actions | Yes | No |
|--|---------------|------------------------|
| Step 1 Print a test page using paper from a newly opened package, and then check the result. Are there horizontal line defects on the test page? | Go to step 2. | Go to step 3. |
| Step 2 Identify, and then resolve the print quality defect. See “Fixing print quality issues” on page 48 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Clean the scanner glass and scanner glass pad. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Copy a document in duplex using the ADF, and then check the results of the front page scan. Does the scan defect occur on the front page? | Go to step 5. | Go to step 10. |
| Step 5 Clean the following components: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the following components for damage: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Are the components free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the damaged components. See “Cleaning shaft removal” on page 833 and “Scan glass brush removal” on page 832 . Does the problem remain? | Go to step 8. | The problem is solved. |

| Actions | Yes | No |
|---|------------------------------------|---|
| Step 8 Check the scanner CCD lens assembly for damage. Is the lens assembly free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the lens assembly. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the results of the back page scan. Does the scan defect occur on the back page? | Go to step 11. | The problem is not with the ADF or flatbed scanner. |
| Step 11 Clean the CIS glass and CIS glass clean shaft. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the following components for damage: <ul style="list-style-type: none"> • CIS assembly • CIS glass clean shaft Are the components free of damage? | Contact the next level of support. | Go to step 13. |
| Step 13 Replace the affected components. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Light image scan check

| Actions | Yes | No |
|--|---------------|------------------------|
| Step 1 Print a test page using paper from a newly opened package, and then check the result. Are there light image defects on the test page? | Go to step 2. | Go to step 3. |
| Step 2 Identify, and then resolve the print quality defect. See “Fixing print quality issues” on page 48 . Does the problem remain? | Go to step 3. | The problem is solved. |

| Actions | Yes | No |
|---|----------------|------------------------|
| Step 3 Copy a document using the flatbed scanner. Does the scan defect occur on the front page? | Go to step 4. | Go to step 11. |
| Step 4 Clean the scanner glass and scanner glass pad. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the following components for damage: <ul style="list-style-type: none"> • Scanner glass • Scanner glass pad Are the components free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the damaged components. See “Scanner glass removal” on page 850 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the following components for dirt and contamination: <ul style="list-style-type: none"> • Scanner CCD lens • Scanner mirrors • Scanner lamp Are the components free of dirt and contamination? | Go to step 9. | Go to step 8. |
| Step 8 Clean the affected components. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the following components for misalignment and damage: <ul style="list-style-type: none"> • Scanner CCD lens assembly • Scanner mirrors • Scanner lamp Are the components properly installed and free of damage? | Go to step 11. | Go to step 10. |

| Actions | Yes | No |
|---|----------------|---|
| Step 10 Reinstall or replace the affected components. See “Scanner mirror 1 removal” on page 867 , “Scanner mirror 2 removal” on page 870 , “Scanner mirror 3 removal” on page 872 , and “Scanner lamp removal” on page 869 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Copy a document in duplex using the ADF, and then check the results of the front page scan. Does the scan defect occur on the front page? | Go to step 12. | Go to step 15. |
| Step 12 Clean the following components: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the following components for damage: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Are the components free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the damaged components. See “Cleaning shaft removal” on page 833 and “Scan glass brush removal” on page 832 . Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Check the results of the back page scan. Does the scan defect occur on the back page? | Go to step 16. | The problem is not with the ADF or flatbed scanner. |
| Step 16 Clean the CIS glass and CIS glass clean shaft. Does the problem remain? | Go to step 17. | The problem is solved. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 17 Check the following components for damage: <ul style="list-style-type: none"> • CIS assembly • CIS glass clean shaft Are the components free of damage? | Contact the next level of support. | Go to step 18. |
| Step 18 Replace the affected components. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Blurred or double image scan check

| Actions | Yes | No |
|--|---------------|------------------------|
| Step 1 Print a test page using paper from a newly opened package, and then check the result. Are there blurred or double image defects on the test page? | Go to step 2. | Go to step 3. |
| Step 2 Identify, and then resolve the print quality defect. See “Fixing print quality issues” on page 48 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Copy a document using the flatbed scanner. Does the scan defect occur on the front page? | Go to step 4. | Go to step 18. |
| Step 4 a Make sure that the scanner glass and scanner glass pad are aligned and flat. b Check if the flatbed and ADF are parallel with each other, and adjust if necessary. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the following components for damage: <ul style="list-style-type: none"> • Scanner glass • Scanner glass pad • ADF left and right hinges Are the components free of damage? | Go to step 7. | Go to step 6. |

| Actions | Yes | No |
|---|----------------|------------------------|
| Step 6 Replace the damaged components. See “Scanner glass removal” on page 850 , “ADF right hinge removal” on page 749 , and “ADF left hinge removal” on page 750 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Observe the movement of the scanner carriage. Does the scanner carriage properly move? | Go to step 14. | Go to step 8. |
| Step 8 Check the scanner carriage belt and gear for misalignment. Are the belt and gear properly installed? | Go to step 10. | Go to step 9. |
| Step 9 a Reinstall the affected belt or gear. b Perform the scanner carriage belt adjustment. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the scanner carriage belt and gear for damage. Are the belt and gear free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the damaged belt or gear. See “Scanner carriage gear removal” on page 863 . Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the motor (scanner drive) for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the motor. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the scanner controller board for damage. Is the board free of damage? | Go to step 16. | Go to step 15. |

| Actions | Yes | No |
|---|----------------|---|
| Step 15 Replace the board, and then reset the printer. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the following components for misalignment and damage: <ul style="list-style-type: none"> • Scanner CCD lens assembly • Scanner mirrors • Scanner lamp Are the components properly installed and free of damage? | Go to step 18. | Go to step 17. |
| Step 17 Reinstall or replace the affected components. See “Scanner mirror 1 removal” on page 867 , “Scanner mirror 2 removal” on page 870 , “Scanner mirror 3 removal” on page 872 , and “Scanner lamp removal” on page 869 . Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Copy a document in duplex using the ADF, and then check the results of the front page scan. Does the scan defect occur on the front page? | Go to step 19. | Go to step 21. |
| Step 19 Check the following components for misalignment and damage: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Are the components properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Reinstall or replace the damaged components. See “Cleaning shaft removal” on page 833 and “Scan glass brush removal” on page 832 . Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 Check the results of the back page scan. Does the scan defect occur on the back page? | Go to step 22. | The problem is not with the ADF or flatbed scanner. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 22 Check the following components for damage: <ul style="list-style-type: none"> • CIS assembly • CIS glass clean shaft Are the components free of damage? | Contact the next level of support. | Go to step 23. |
| Step 23 Replace the affected components. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Spotty image scan check

| Actions | Yes | No |
|--|---------------|------------------------|
| Step 1 Print a test page using paper from a newly opened package, and then check the result. Are there spotty image defects on the test page? | Go to step 2. | Go to step 3. |
| Step 2 Identify, and then resolve the print quality defect. See “Fixing print quality issues” on page 48 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Copy a document using the flatbed scanner. Does the scan defect occur on the front page? | Go to step 4. | Go to step 9. |
| Step 4 Clean the scanner glass and scanner glass pad. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the following components for dirt and contamination: <ul style="list-style-type: none"> • Scanner CCD lens • Scanner mirrors • Scanner lamp Are the components free of dirt and contamination? | Go to step 7. | Go to step 6. |

| Actions | Yes | No |
|---|----------------|---|
| Step 6 Clean the affected components. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the following components for damage: <ul style="list-style-type: none"> • Scanner CCD lens assembly • Scanner lamp Are the components free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Replace the affected components. See “Scanner lamp removal” on page 869 . Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Copy a document in duplex using the ADF, and then check the results of the front page scan. Does the scan defect occur on the front page? | Go to step 10. | Go to step 13. |
| Step 10 Clean the following components: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the following components for damage: <ul style="list-style-type: none"> • ADF glass • ADF glass clean shaft • ADF glass clean brush Are the components free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the damaged components. See “Cleaning shaft removal” on page 833 and “Scan glass brush removal” on page 832 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the results of the back page scan. Does the scan defect occur on the back page? | Go to step 14. | The problem is not with the ADF or flatbed scanner. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 14 Clean the CIS glass and CIS glass clean shaft. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Check the following components for damage: <ul style="list-style-type: none"> • CIS assembly • CIS glass clean shaft Are the components free of damage? | Contact the next level of support. | Go to step 16. |
| Step 16 Replace the affected components. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Black image scan check

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 1 Print a test page using paper from a newly opened package, and then check the result. Is the test page black? | Go to step 2. | Go to step 3. |
| Step 2 Identify, and then resolve the print quality defect. See “Fixing print quality issues” on page 48 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Copy a document using the flatbed scanner. Does the scan defect occur on the front page? | Go to step 4. | Go to step 20. |
| Step 4 Observe the movement of the scanner carriage. Does the scanner carriage properly move? | Go to step 13. | Go to step 5. |
| Step 5 Check the scanner carriage belt and gear for misalignment. Are the belt and gear properly installed? | Go to step 7. | Go to step 6. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 6 a Reinstall the affected belt or gear. b Perform the scanner carriage belt adjustment. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the scanner carriage belt and gear for damage. Are the belt and gear free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Replace the damaged belt or gear. See “Scanner carriage gear removal” on page 863 . Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the motor (scanner drive) for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the motor. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the scanner controller board for damage. Is the board free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the board, and then reset the printer. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the scanner CCD lens assembly cables for proper connections. Are the cables properly connected? | Go to step 15. | Go to step 14. |
| Step 14 Reseat the cables. Does the problem remain? | Go to step 15. | The problem is solved. |

| Actions | Yes | No |
|---|----------------|---|
| Step 15 At the back of the printer, check the DisplayPort cables on the engine controller board for proper connections. Are the cables properly connected? | Go to step 17. | Go to step 16. |
| Step 16 Reseat the cables. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Replace the scanner CCD cable. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Check the scanner CCD lens assembly for damage. Is the lens assembly free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Replace the lens assembly. Does the problem remain? | Go to step 27. | The problem is solved. |
| Step 20 Copy a document in duplex using the ADF, and then check the results of the back page scan. Does the scan defect occur on the back page? | Go to step 21. | The problem is not with the ADF or flatbed scanner. |
| Step 21 Check the CIS assembly and CIS power supply board for proper connections. Are the cables properly connected? | Go to step 23. | Go to step 22. |
| Step 22 Reseat the cables. Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 At the left side of the printer, check the main power supply cables for proper connections. Are the cables properly connected? | Go to step 25. | Go to step 24. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 24 Reseat the cables. Does the problem remain? | Go to step 25. | The problem is solved. |
| Step 25 Check the following components for misalignment and damage: <ul style="list-style-type: none"> • CIS assembly • CIS glass clean shaft Are the components properly installed and free of damage? | Go to step 27. | Go to step 26. |
| Step 26 Reinstall or replace the affected components. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Go to step 27. | The problem is solved. |
| Step 27 Check the engine controller board for damage. Is the board free of damage? | Go to step 29. | Go to step 28. |
| Step 28 Replace the board. Does the problem remain? | Go to step 29. | The problem is solved. |
| Step 29 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Skewed image scan check

| Actions | Yes | No |
|--|---------------|------------------------|
| Step 1 Print a test page using paper from a newly opened package, and then check the result. Are there skewed image defects on the test page? | Go to step 2. | Go to step 3. |
| Step 2 Identify, and then resolve the print quality defect. See “Fixing print quality issues” on page 48 . Does the problem remain? | Go to step 3. | The problem is solved. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 3 Copy a document using the flatbed scanner. Does the scan defect occur on the front page? | Go to step 4. | Go to step 9. |
| Step 4 Make sure that the scanner glass and scanner glass pad are aligned and flat. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the scanner glass for damage. Is the scanner glass free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the scanner glass. See “Scanner glass removal” on page 850 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the following components for misalignment and damage: <ul style="list-style-type: none"> • Scanner CCD lens assembly • Scanner mirrors • Scanner lamp Are the components properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Reinstall or replace the affected components. See “Scanner mirror 1 removal” on page 867 , “Scanner mirror 2 removal” on page 870 , “Scanner mirror 3 removal” on page 872 , and “Scanner lamp removal” on page 869 . Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Copy a document in duplex using the ADF, and then check the results of the front page scan. Does the scan defect occur on the front page? | Go to step 10. | Go to step 12. |
| Step 10 Check the ADF glass for misalignment and damage. Is the ADF glass free of damage? | Go to step 12. | Go to step 11. |

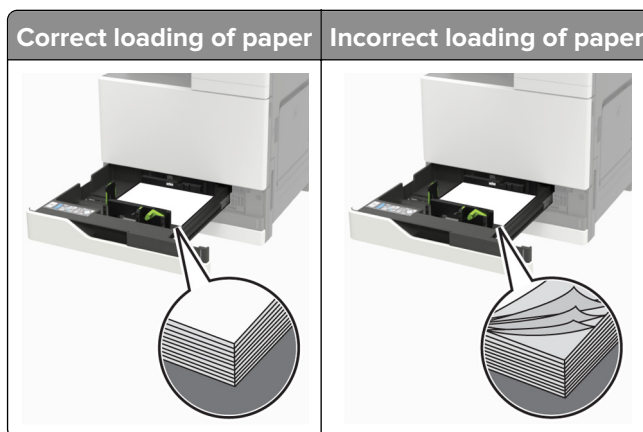
| Actions | Yes | No |
|--|------------------------------------|---|
| Step 11 Reinstall or replace the ADF glass. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the results of the back page scan. Does the scan defect occur on the back page? | Go to step 13. | The problem is not with the ADF or flatbed scanner. |
| Step 13 Check the CIS assembly for misalignment and damage. Is the CIS assembly free of damage? | Contact the next level of support. | Go to step 14. |
| Step 14 Replace the CIS assembly. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Paper jams

Avoiding jams

Load paper properly

- Make sure that the paper lies flat in the tray.



- Do not load or remove a tray while the printer is printing.
- Do not load too much paper. Make sure that the stack height is below the maximum paper fill indicator.

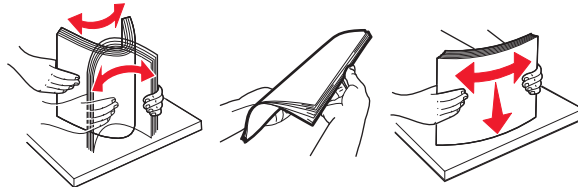
- Do not slide paper into the tray. Load paper as shown in the illustration.



- Make sure that the paper guides are positioned correctly and are not pressing tightly against the paper or envelopes.
- Push the tray firmly into the printer after loading paper.

Use recommended paper

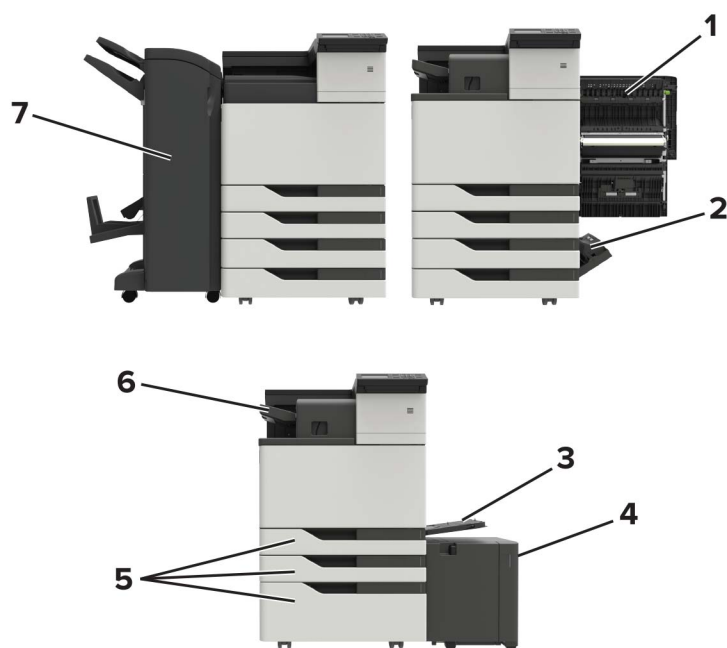
- Use only recommended paper or specialty media.
- Do not load paper that is wrinkled, creased, damp, bent, or curled.
- Flex, fan, and align the paper edges before loading.



- Do not use paper that has been cut or trimmed by hand.
- Do not mix paper sizes, weights, or types in the same tray.
- Make sure that the paper size and type are set correctly on the computer or printer control panel.
- Store paper according to manufacturer recommendations.

Identifying jam locations

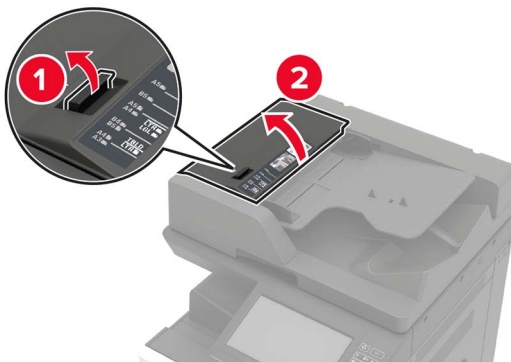
Note: When Jam Recovery is set to On or Auto, the printer reprints jammed pages.



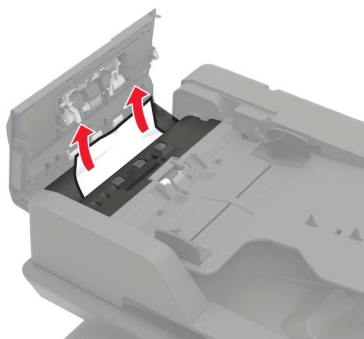
| | Jam locations |
|----------|--|
| 1 | Automatic document feeder (ADF) |
| 2 | Door C |
| 3 | Door D |
| 4 | Multipurpose feeder |
| 5 | 3000-sheet tray |
| 6 | 2 x 500- or 2500-sheet tray |
| 7 | Staple finisher |
| 8 | Finisher <ul style="list-style-type: none"> • Booklet finisher • Staple, hole punch finisher |

Paper jam in the automatic document feeder

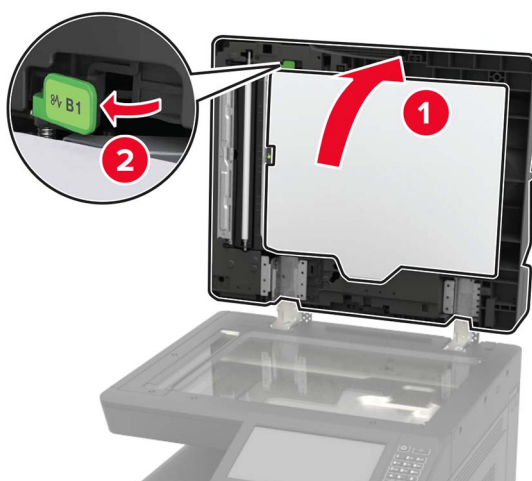
- 1 Remove all original documents from the ADF tray.
- 2 Open door B.



- 3 Remove the jammed paper.
- Note:** Make sure that all paper fragments are removed.

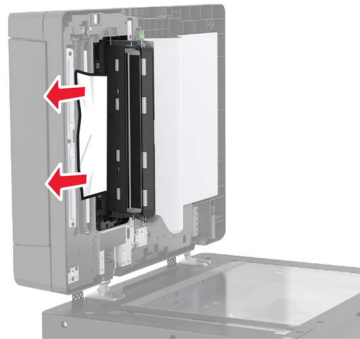


- 4 Close the door.
- 5 Open door B1.



- 6 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



- 7 Close the door.

Paper jam in the multipurpose feeder

- 1 Remove paper from the multipurpose feeder.
- 2 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



- 3 Open door C to remove any paper fragments.



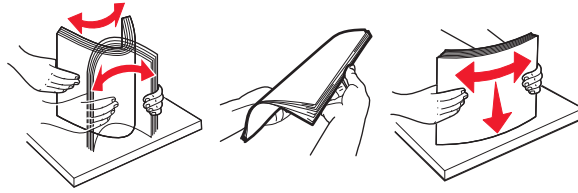
CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

Notes:

- Make sure that the door does not hit any cable attached to the printer.
- If a 3000-sheet tray is installed, then slide the tray to the right to open the door.

- 4 Close the door.

- 5 Flex, fan, and align the paper edges before loading.



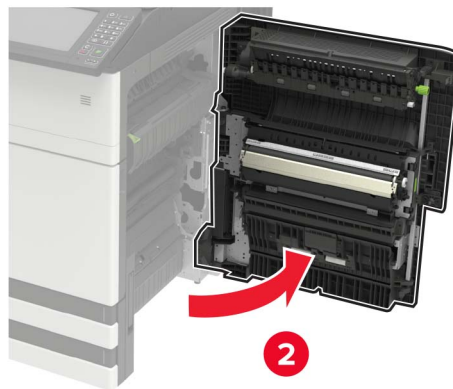
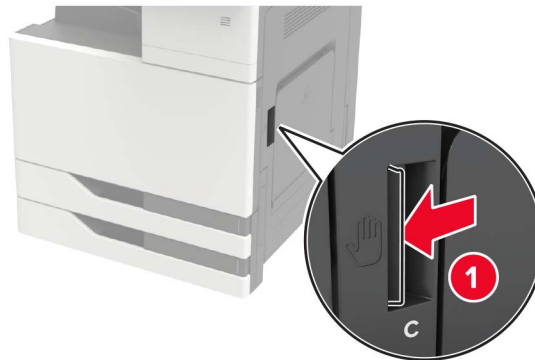
- 6 Reload paper.

Paper jam in door C

- 1 Open door C.



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.



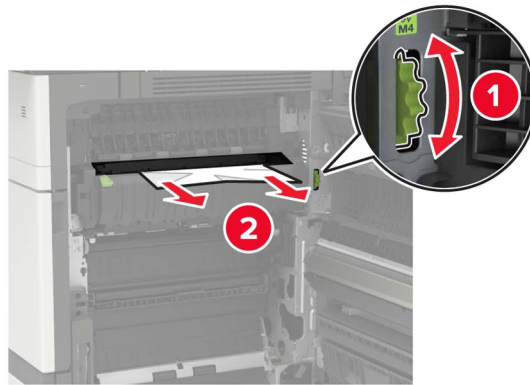
Notes:

- Make sure that the door does not hit any cable attached to the printer.
- If a 3000-sheet tray is installed, then slide the tray to the right to open the door.

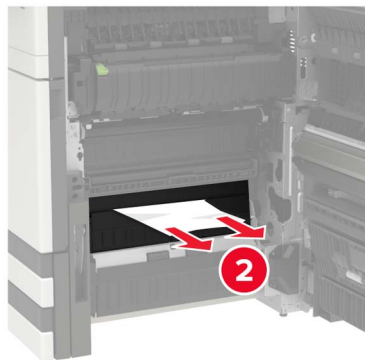
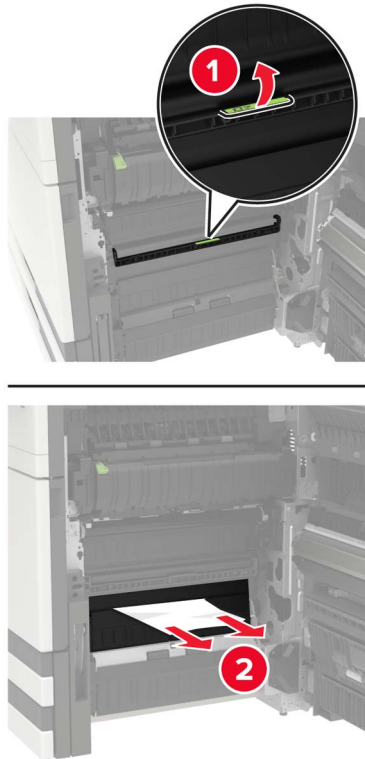
- 2 Remove the jammed paper from any of the following locations.

Note: Make sure that all paper fragments are removed.

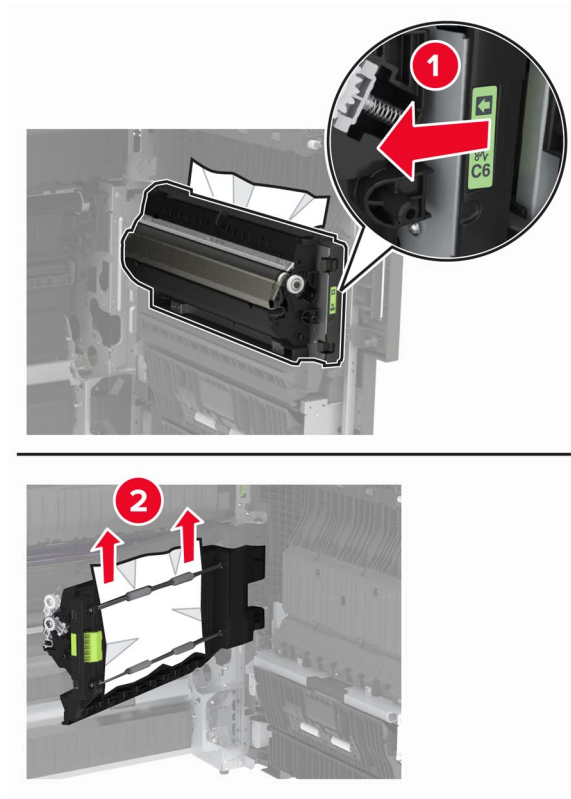
- Fuser area



- Below the fuser area



- Duplex area

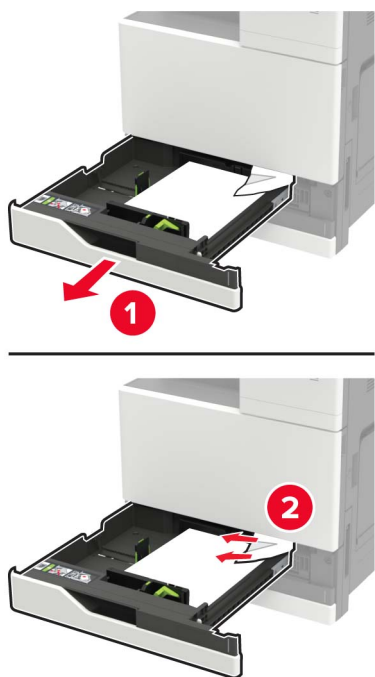


- Above the duplex area



3 Open the standard trays, and then remove the jammed paper.

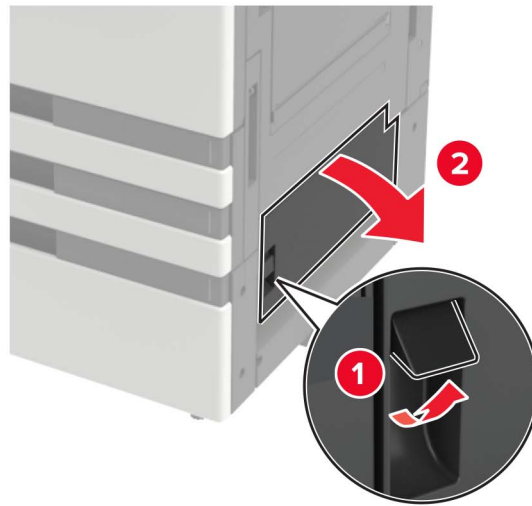
Note: Make sure that all paper fragments are removed.



4 Close the trays, and then close the door.

Paper jam in door D

- 1 Open door D, and then remove the jammed paper.

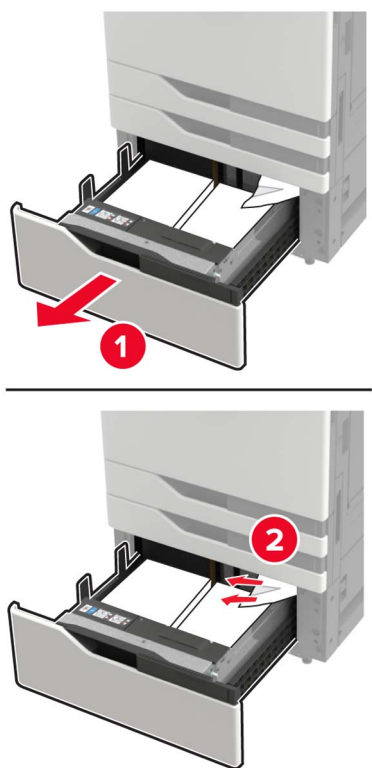


Notes:

- If a 3000-sheet tray is installed, then slide the tray to the right to open the door.
- Open door C to make sure that all paper fragments are removed, and then close the door.

- 2 Open the optional tray, and then remove the jammed paper.

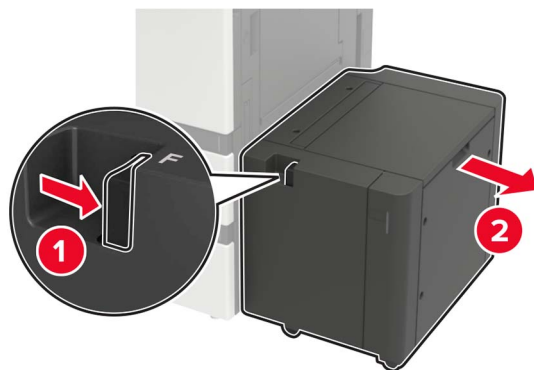
Note: Make sure that all paper fragments are removed.



3 Close the tray, and then close the door.

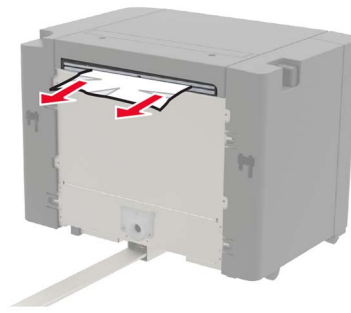
Paper jam in the 3000-sheet tray

1 Slide the 3000-sheet tray.



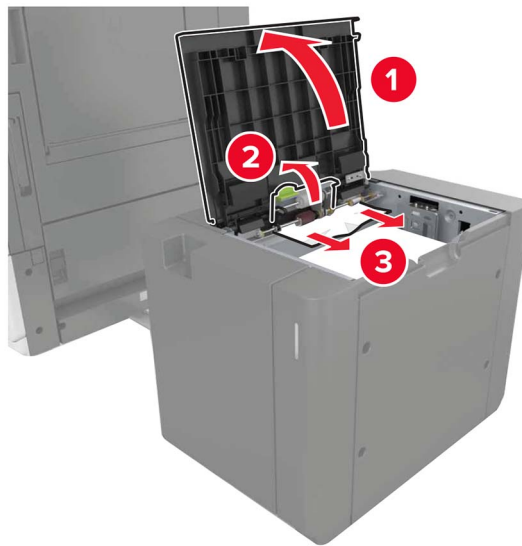
2 Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



3 Open door F, and then remove the jammed paper.

Note: Make sure that all paper fragments are removed.



4 Close the door, and then slide the tray back into place.

200 paper jams

200 paper jam messages

| Error code | Description | Action |
|------------|--|--|
| 200.91 | The paper remains detected in the printer after the printer is turned on. | See “Printer static jam service check” on page 142. |
| 200.91 | The paper remains detected in the 2500-sheet tray after the printer is turned on. | See “2500-sheet tray static jam service check” on page 144. |
| 200.91 | The paper remains detected in the 2 x 500-sheet tray after the printer is turned on. | See “2 x 500-sheet tray static jam service check” on page 145. |

| Error code | Description | Action |
|------------|--|---|
| 200.91 | The paper remains detected in the 3000-sheet tray after the printer is turned on. | See “3000-sheet tray static jam service check” on page 146. |
| 200.91 | The paper remains detected in the 3000-sheet tray after the printer is turned on. | See “3000-sheet tray static jam service check” on page 146. |
| 200.93 | The sensor (registration) did not detect the paper fed from tray 2, tray 3, tray 4, or tray 5. | See “Registration jam service check” on page 150. |
| 200.98 | | |

Printer static jam service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Reset the printer. b Open all doors and then remove the paper jams and fragments along the printer paper path. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the following sensors: <ul style="list-style-type: none"> • Sensor (tray 2 transport) • Sensor (registration 1) • Sensor (registration 2) • Sensor (fusing speed) • Sensor (exit) • Sensor (duplex pass through 1) • Sensor (duplex pass through 2) Does the status of the sensors change? | Go to step 5. | Go to step 4. |
| Step 3 Reseat the cable connector of the affected sensors. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Replace the affected sensors. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 5 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the image controller board. See “Image controller board removal” on page 571 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat all cable connectors on the expansion controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the expansion controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the expansion controller board. See “Expansion controller board removal” on page 607 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 13. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 13 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

2500-sheet tray static jam service check

| Action | Yes | No |
|---|---|------------------------|
| Step 1 a Remove the paper jams and fragments along the paper path. b Reset the printer. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Remove the 2500-sheet tray from the printer. Does the problem remain? | The problem is not with the 2500-sheet tray. For more information, see “200 paper jam messages” on page 141 . | Go to step 3. |
| Step 3 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2500-sheet tray sensor tests b Find the sensor (Tray transport). Does the sensor status change while toggling the sensor? | Go to step 8. | Go to step 4. |
| Step 4 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Reinstall or replace the sensor. See “Sensor (2500-sheet tray transport) removal” on page 893 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 8. | Go to step 7. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 7 Replace the 2500-sheet tray pick assembly sensor cable. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the 2500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 9. |
| Step 9 Replace the controller board. See “2500-sheet tray controller board removal” on page 878 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

2 x 500-sheet tray static jam service check

| Action | Yes | No |
|---|--|------------------------|
| Step 1 a Remove the paper jams and fragments along the paper path. b Reset the printer. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Remove the 2 x 500-sheet tray from the printer. Does the problem remain? | The problem is not with the 2 x 500-sheet tray. For more information, see “200 paper jam messages” on page 141 . | Go to step 3. |
| Step 3 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray sensor tests b Find the sensor (Tray 3 transport) and sensor (Tray 4 transport). Do the sensor statuses change while toggling the sensors? | Go to step 8. | Go to step 4. |
| Step 4 a Reseat the cable of the affected sensor, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 6. | Go to step 5. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 5 Reinstall or replace the sensor. See “2 x 500-sheet tray transport assembly sensors removal” on page 923. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 8. | Go to step 7. |
| Step 7 Replace the 2 x 500-sheet tray 3 or tray 4 pick assembly sensor cable. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the 2 x 500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 9. |
| Step 9 Replace the controller board. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

3000-sheet tray static jam service check

| Action | Yes | No |
|--|--|------------------------|
| Step 1 a Remove the paper jams and fragments along the paper path. b Reset the printer. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Remove the 3000-sheet tray from the printer. Does the problem remain? | The problem is not with the 3000-sheet tray. For more information, see “200 paper jam messages” on page 141. | Go to step 3. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 3 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 3000-sheet tray sensor tests b Find the sensor (Tray paper feed). Does the sensor status change while toggling the sensor? | Go to step 8. | Go to step 4. |
| Step 4 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Reinstall or replace the sensor. See “Sensor (3000-sheet tray feed) removal” on page 943 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 8. | Go to step 7. |
| Step 7 Replace the 3000-sheet tray feed sensor cable. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the 3000-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 9. |
| Step 9 Replace the controller board. See “3000-sheet tray controller board removal” on page 944 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Staple finisher static jam service check

| Action | Yes | No |
|---|--|------------------------|
| Step 1 a Remove the paper jams and fragments along the staple finisher paper path. b Reset the printer. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Remove the staple finisher from the printer. Does the problem remain? | The problem is not with the staple finisher. For more information, see the printer service manual. | Go to step 3. |
| Step 3 a Reinstall the staple finisher to the printer. b Reseat the staple finisher interface cable. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (staple finisher paper feed). Does the sensor status change while toggling the sensor? | Go to step 7. | Go to step 5. |
| Step 5 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Replace the sensor (staple finisher paper feed). Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (staple finisher tamper paper present). Does the sensor status change while toggling the sensor? | Go to step 10. | Go to step 8. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 8 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Replace the sensor (staple finisher tamper paper present). Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the staple finisher tamper paper present sensor actuator for proper installation and damage. Is the sensor actuator properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the staple finisher tamper paper present sensor actuator. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the staple finisher paper feed sensor cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the staple finisher paper feed sensor cable. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the staple finisher interface cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the staple finisher interface cable. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Reseat all cable connectors on the staple finisher controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Registration jam service check

| Action | Yes | No |
|---|----------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Event log > Display log b Check the error codes. Do most of the recent error codes end with a 1? For example, 241.11 or 200.91. | Go to step 2. | Go to step 3. |
| Step 2 Make sure that the registration paper path, including the sensors, are free of debris or dust. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 2 b Touch Start beside Single. Does the leading edge of the paper reach the sensor (registration)? | Go to step 4. | Go to step 9. |
| Step 4 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (registration). Does the sensor status change while toggling the sensor? | Go to step 7. | Go to step 5. |
| Step 5 a Reseat the registration sensor cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Replace the sensor. See “Sensor (registration) removal” on page 503 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (tray 2 transport). Does the sensor status change while toggling the sensor? | Go to step 10. | Go to step 8. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 8 a Reseat the registration sensor cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Replace the sensor. See “Sensor (tray 2 transport) removal” on page 692. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the registration roller for wear or damage, and replace if necessary. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (transport), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 14. | Go to step 12. |
| Step 12 a Reseat the motor cable connector on both ends. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Replace the motor (transport). See “Motor (transport) removal” on page 631. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the tray 2 transport roller for wear or damage, and replace if necessary. Does the problem remain? | Go to step 15. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 15 Check the tray 2 transport guide rollers for wear or damage, and replace if necessary. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the tray 2 transport gear for wear or damage, and replace if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Check the tray 2 transport gear for wear or damage, and replace if necessary. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Check the tray 1 and tray 2 paper feed unit for proper installation and damage. Is the tray 1 and tray 2 paper feed unit properly installed and free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Replace the tray 1 and tray 2 paper feed unit. See “Tray 1 and 2 paper feed unit removal” on page 498 . Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 a Make sure that the feed drive assembly is clear of obstructions. b Check the feed drive assembly for proper installation and damage. Is the feed drive assembly properly installed and free of damage? | Go to step 22. | Go to step 21. |
| Step 21 Replace the feed drive assembly. See “Feed drive assembly removal” on page 659 . Does the problem remain? | Go to step 22. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 22 a Make sure that the registration transport assembly is clear of obstructions. b Check the registration transport assembly for proper installation and damage. Is the registration transport assembly properly installed and free of damage? | Go to step 24. | Go to step 23. |
| Step 23 Replace the registration transport assembly. See “Registration transport assembly removal” on page 499. Does the problem remain? | Go to step 24. | The problem is solved. |
| Step 24 Check the main drive assembly for proper installation and damage. Is the main drive assembly properly installed and free of damage? | Go to step 26. | Go to step 25. |
| Step 25 Replace the main drive assembly. See “Main drive assembly removal” on page 654. Does the problem remain? | Go to step 26. | The problem is solved. |
| Step 26 a Reseat all cable connectors on the expansion controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 27. | The problem is solved. |
| Step 27 Check the expansion controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 29. | Go to step 28. |
| Step 28 Replace the expansion controller board. See “Expansion controller board removal” on page 607. Does the problem remain? | Go to step 29. | The problem is solved. |
| Step 29 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 30. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 30 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 31. |
| Step 31 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

202 paper jams

202 paper jam messages

| Error code | Description | Action |
|------------|---|--|
| 202.91 | The paper remains detected at the sensor (fuser exit) after the printer is turned on. | See “Exit jam service check” on page 154 . |
| 202.93 | The sensor (fuser exit) did not detect the paper. | |
| 202.95 | The paper remains detected at the sensor (fuser exit) during a print job. | |

Exit jam service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Event log > Display log b Check the error codes. Do most of the recent error codes end with a 1? (Example: 241.11, 200.91) | Go to step 2. | Go to step 8. |
| Step 2 Make sure that the exit paper path, including the sensors, are free of debris or dust. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the fuser exit sensor actuator for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 4 Check the sensor (fuser exit) for proper installation and damage. Is the sensor properly installed and free of damage? | Go to step 5. | Go to step 7. |
| Step 5 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (fuser exit). Does the sensor status change while toggling the sensor? | Go to step 8. | Go to step 6. |
| Step 6 a Reseat the sensor cable connector on both ends. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Replace the sensor (fuser exit). Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 1 b Touch Start beside Single. Does the leading edge of the paper reach the fuser? | Go to step 9. | Go to step 10. |
| Step 9 Check if the leading edge of the paper reaches the sensor (fuser exit). Does the leading edge of the paper reach the sensor? | Go to step 16. | Go to step 15. |
| Step 10 Check the registration roller for wear or damage, and replace if necessary. Does the problem remain? | Go to step 11. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 11 a Make sure that the registration transport assembly is clear of obstructions. b Check the registration transport assembly for proper installation and damage. Is the registration transport assembly properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the registration transport assembly. See “Registration transport assembly removal” on page 499. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Make sure that the registration unit assembly is clear of obstructions. b Check the registration unit assembly for proper installation and damage. Is the registration unit assembly properly installed and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the registration unit assembly. See “Registration unit assembly removal” on page 507. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Check the fuser for wear or damage, and replace if necessary. See “Fuser removal” on page 441. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the paper exit clutch for wear or damage, and replace if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Make sure that the duplex transport assembly is clear of obstructions. b Check the duplex transport assembly for proper installation and damage. Is the duplex transport assembly properly installed and free of damage? | Go to step 19. | Go to step 18. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 18 Replace the duplex transport assembly. See “Duplex transport assembly removal” on page 443. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 a Make sure that the exit guide is clear of obstructions. b Check the exit guide for proper installation and damage. Is the exit guide properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Replace the exit guide. See “Exit assembly removal” on page 527. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 Check the diverter solenoid for proper installation and damage. Is the diverter solenoid properly installed and free of damage? | Go to step 23. | Go to step 22. |
| Step 22 Replace the diverter solenoid. See “Diverter solenoid removal” on page 533. Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (redrive), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 24. | The problem is solved. |
| Step 24 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 25. | The problem is solved. |
| Step 25 Replace the motor. See “Motor (redrive) removal” on page 536. Does the problem remain? | Go to step 26. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 26 Make sure that the blue screws and marked screws in the paper path area are tightened. Does the problem remain? | Go to step 27. | The problem is solved. |
| Step 27 a Reseat all cable connectors on the expansion controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 28. | The problem is solved. |
| Step 28 Check the expansion controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 30. | Go to step 29. |
| Step 29 Replace the expansion controller board. See “Expansion controller board removal” on page 607. Does the problem remain? | Go to step 30. | The problem is solved. |
| Step 30 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 31. | The problem is solved. |
| Step 31 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 32. |
| Step 32 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

230 paper jams

230 paper jam messages

| Error code | Description | Action |
|------------|--|--|
| 230.93 | The sensor (duplex pass through 1) did not detect the paper. | See “Duplex jam service check” on page 159 . |

Duplex jam service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Event log > Display log b Check the error codes. Do most of the recent error codes end with a 1? (Example: 241.11, 200.91) | Go to step 2. | Go to step 6. |
| Step 2 Make sure that the duplex paper path, including the sensors, are free of debris or dust. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the duplex pass through 1 and duplex pass through 2 sensor actuators for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the sensor (duplex pass through 1) and sensor (duplex pass through 2) for proper installation and damage. Are the sensors properly installed and free of damage? | Go to step 5. | The problem is solved. |
| Step 5 Replace the damaged sensor. See “Sensor (duplex pass through 2) removal” on page 511 . Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 6 a Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 1 b Touch Start beside Single. Does the leading edge of the paper reach the sensor (duplex pass through 1)? | Go to step 7. | Go to step 8. |
| Step 7 Check if the leading edge of the paper reaches the sensor (registration). Does the leading edge of the paper reach the sensor? | Go to step 16. | Go to step 14. |
| Step 8 a Check the duplex transport belt for proper tension, and adjust if necessary. b Check the duplex transport gear and belt for wear or damage, and replace if necessary. See “Duplex transport belt removal” on page 446 . Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Make sure that the duplex transport assembly is clear of obstructions. b Check the duplex transport assembly, including its rollers and guides for proper installation and damage. Is the duplex transport assembly properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the duplex transport assembly. See “Duplex transport assembly removal” on page 443 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (duplex transport), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 14. | Go to step 12. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 12 a Reseat the motor cable connector on both ends. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Replace the motor. See “Motor (duplex transport) removal” on page 456. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the following components for proper installation and damage: <ul style="list-style-type: none"> • Registration unit assembly • Lower duplex transport roller • Duplex exit roller Are the components properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the damaged component. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (transport), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 19. | Go to step 17. |
| Step 17 a Reseat the motor cable connector on both ends. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Replace the motor. See “Motor (transport) removal” on page 631. Does the problem remain? | Go to step 19. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 19 a Reseat all cable connectors on the expansion controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 Check the expansion controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 22. | Go to step 21. |
| Step 21 Replace the expansion controller board. See “Expansion controller board removal” on page 607 . Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 24. |
| Step 24 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

240 paper jams

240 paper jam messages

| Error code | Description | Action |
|------------|--|--|
| 240.83 | The MPF lift plate did not move to the correct position. | See “MPF lift plate failure service check” on page 163 . |

MPF lift plate failure service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Make sure that the MPF lift plate, including the cam and gears, are properly installed. b Check the plate, including the cam and gears, for damage, and replace if necessary. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Observe the MPF lift plate solenoid. Is it properly working? | Go to step 4. | Go to step 3. |
| Step 3 a Reseat the MPF lift plate solenoid cable connector on both ends. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the MPF lift plate solenoid for wear or damage, and replace if necessary. See “MPF lift plate solenoid removal” on page 482. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Observe the MPF lift plate clutch gear. Is it working properly? | Go to step 8. | Go to step 6. |
| Step 6 Check the MPF lift plate clutch gear for proper installation and damage. Is the gear properly installed and free of damaged? | Go to step 8. | Go to step 7. |
| Step 7 Replace the gear. See “MPF lift plate clutch gear removal” on page 484. Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 8 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (transport), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 12. | Go to step 9. |
| Step 9 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the motor. See “Motor (transport) removal” on page 631 . Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (MPF lift plate). Does the sensor status change while toggling the sensor? | Go to step 16. | Go to step 13. |
| Step 13 a Reseat the MPF lift plate sensor cable connector on both ends. b Check the sensor cable for damage, and replace if necessary. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the sensor (MPF lift plate) for proper installation and damage. Is the sensor properly installed and free of damage? | Go to step 16. | Go to step 15. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 15 Replace the sensor (MPF lift plate). See “Sensor (MPF lift plate) removal” on page 494. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the MPF for proper installation and damage. Is the MPF properly installed and free of damage? | Go to step 18. | Go to step 17. |
| Step 17 Replace the MPF. See “MPF removal” on page 460. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 20. |
| Step 20 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

241 paper jams

241 paper jam messages

| Error code | Description | Action |
|------------|--|---|
| 241.13 | The paper remains detected at the sensor (tray 1 feed) after the printer is turned on. | See “Tray 1 feed jam service check” on page 166. |
| 241.14 | The paper did not reach the sensor (registration) in time for skew correction. | See “Registration jam service check” on page 150. |

Tray 1 feed jam service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Event log > Display log b Check the error codes. Do most of the recent error codes end with a 1? For example, 241.11 or 200.91. | Go to step 2. | Go to step 7. |
| Step 2 Make sure that the tray 1 paper path, including the sensors, are free of debris or dust. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the sensor (tray 1 feed) for proper installation and damage. Is the sensor properly installed and free of damage? | Go to step 7. | Go to step 4. |
| Step 4 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (tray 1 feed). Does the sensor status change while toggling the sensor? | Go to step 7. | Go to step 5. |
| Step 5 a Reseat the sensor cable connector on both ends. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Replace the sensor (tray 1 feed). See “Sensor (tray 1 feed) removal” on page 687 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 1 b Touch Start beside Single. Does the leading edge of the paper reach the sensor (tray 1 feed)? | Go to step 9. | Go to step 8. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 8 Check the tray 1 feed, pick, and separator rollers for damage, and replace if necessary. Note: If the page count is over 50K, then clean the rollers. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (transport), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 13. | Go to step 10. |
| Step 10 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the motor. See “Motor (transport) removal” on page 631 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the tray 1 feed gear for wear or damage, and replace if necessary. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the paper feed drive assembly for proper installation and damage. Is the paper feed drive assembly properly installed and free of damage? | Go to step 16. | Go to step 15. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 15 Replace the feed drive assembly. See “Feed drive assembly removal” on page 659 . Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Check the tray 1 paper feed clutch for damage, and replace if necessary. b Reseat the clutch cable. Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Make sure that the registration unit assembly is clear of obstructions. b Check the registration unit assembly for proper installation and damage. Is the registration unit assembly properly installed and free of damage? | Go to step 19. | Go to step 18. |
| Step 18 Replace the registration unit assembly. See “Registration unit assembly removal” on page 507 . Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 21. |
| Step 21 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

242 paper jams

242 paper jam messages

| Error code | Description | Action |
|------------|---|--|
| 242.23 | The sensor (tray 2 transport) did not detect the paper fed from tray 2. | See “Tray 2 feed jam service check” on page 169. |

Tray 2 feed jam service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Event log > Display log b Check the error codes. Do most of the recent error codes end with a 1? For example, 241.11 or 200.91. | Go to step 2. | Go to step 7. |
| Step 2 Make sure that the tray 1 paper path, including the sensors, are free of debris or dust. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the sensor (tray 2 feed) for proper installation and damage. Is the sensor properly installed and free of damage? | Go to step 7. | Go to step 4. |
| Step 4 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments. b From the Sensor tests section, touch Start. c Find, and then manually toggle the sensor (tray 2 feed). Does the sensor status change while toggling the sensor? | Go to step 7. | Go to step 5. |
| Step 5 a Reseat the sensor cable connector on both ends. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 6 Replace the sensor. See “Sensor (tray 2 feed) removal” on page 690. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 2 b Touch Start beside Single. Does the leading edge of the paper reach the sensor (tray 2 feed)? | Go to step 17. | Go to step 8. |
| Step 8 Check the tray 2 feed, pick, and separator rollers for wear or damage, and replace if necessary. Note: If the page count is over 50K, then clean the rollers. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments. b From the Sensor tests section, touch Start. c Find, and then manually toggle the sensor (tray 2 transport). Does the sensor status change while toggling the sensor? | Go to step 12. | Go to step 10. |
| Step 10 a Reseat the sensor cable connector on both ends. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Replace the sensor. See “Sensor (tray 2 transport) removal” on page 692. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (transport), open the front or right door of the printer, and then touch Start. c Wait for the test to complete, and then touch OK. d Close the door. Does the motor run? | Go to step 16. | Go to step 13. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 13 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the motor. See “Motor (transport) removal” on page 631. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the tray 2 feed clutch and tray 2 feed gear for wear or damage, and replace if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Make sure that the feed drive assembly is clear of obstructions. b Check the feed drive assembly for proper installation and damage. Is the feed drive assembly properly installed and free of damage? | Go to step 19. | Go to step 18. |
| Step 18 Replace the feed drive assembly. See “Feed drive assembly removal” on page 659. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 Check the tray 2 transport guide rollers for proper installation and damage, and replace if necessary. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 a Make sure that the tray 2 transport guide is clear of obstructions. b Check the tray 2 transport guide for proper installation and damage. Is the tray 2 transport guide properly installed and free of damage? | Go to step 22. | Go to step 21. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 21 Replace the tray 2 transport guide. Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 Check the tray 2 transport roller and tray 2 transport gears for wear or damage, and replace if necessary. Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 a Make sure that the tray 1 and tray 2 paper feed unit is clear of obstructions. b Check the tray 1 and tray 2 paper feed unit for proper installation and damage. Is the tray 1 and tray 2 paper feed unit properly installed and free of damage? | Go to step 25. | Go to step 24. |
| Step 24 Replace the tray 1 and tray 2 paper feed unit. See “Tray 1 and 2 paper feed unit removal” on page 498 . Does the problem remain? | Go to step 25. | The problem is solved. |
| Step 25 a Reseat all cable connectors on the expansion controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 26. | The problem is solved. |
| Step 26 Check the expansion controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 28. | Go to step 27. |
| Step 27 Replace the expansion controller board. See “Expansion controller board removal” on page 607 . Does the problem remain? | Go to step 28. | The problem is solved. |
| Step 28 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 29. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 29 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 30. |
| Step 30 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

243–245 paper jams

243 paper jam messages

| Error code | Description | Action |
|------------|--|---|
| 243.33 | The 2 x 500-sheet tray sensor (tray 3 transport) did not detect the paper. | See “2 x 500-sheet tray 3 jam service check” on page 177. |
| 243.33 | The 2500-sheet tray sensor (tray 3 transport) did not detect the paper. | See “2500-sheet tray jam service check” on page 174. |
| 243.93 | The 2 x 500-sheet tray sensor (tray 3 transport) did not detect the paper from tray 4. | See “2 x 500-sheet tray 3 jam service check” on page 177. |

244–245 paper jam messages

| Error code | Description | Action |
|------------|--|---|
| 244.43 | The 2 x 500-sheet tray sensor (tray 4 transport) did not detect the paper. | See “2 x 500-sheet tray 4 jam service check” on page 180. |
| 245.53 | The sensor (3000-sheet tray feed) did not detect the paper. | See “3000-sheet tray feed jam service check” on page 184. |

2500-sheet tray jam service check

| Action | Yes | No |
|--|----------------|------------------------|
| Step 1 Remove the paper jams and fragments along the paper path. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2500-sheet tray sensor tests b Find the sensor (Tray feed). Does the sensor status change while toggling the sensor? | Go to step 7. | Go to step 3. |
| Step 3 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Reinstall or replace the sensor. See “Sensor (2500-sheet tray feed) removal” on page 892. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 7. | Go to step 6. |
| Step 6 Replace the 2500-sheet tray pick assembly sensor cable. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 3 b Select Single, and then touch Start . Does the leading edge of the paper reach the sensor (2500-sheet tray feed)? | Go to step 17. | Go to step 8. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 8 Check the following 2500-sheet tray rollers for damage: Note: If the page count is over 50K, then clean the rollers. <ul style="list-style-type: none"> • Feed roller • Pick roller • Separator roller Are the rollers free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the damaged rollers. See “2500-sheet tray paper feed assembly removal” on page 898 and “2500-sheet tray pick assembly removal” on page 901 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2500-sheet tray motor tests > Tray feed b Touch Start . Does the motor run? | Go to step 15. | Go to step 11. |
| Step 11 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Reinstall or replace the motor. See “Motor (2500-sheet tray feed) removal” on page 896 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the continuity of the motor cable. Does the cable have continuity? | Go to step 15. | Go to step 14. |
| Step 14 Replace the 2500-sheet tray feed and transport motor cable. Does the problem remain? | Go to step 15. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 15 Check the following tray 3 components for misalignment, wear, and damage: <ul style="list-style-type: none"> • 2500-sheet tray feed and transport motor belt • 2500-sheet tray feed and transport primary gear • 2500-sheet tray feed and transport secondary gear Are the belt and gears properly installed and free of wear and damage? | Go to step 17. | Go to step 16. |
| Step 16 Reinstall or replace the affected components. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2500-sheet tray sensor tests b Find the sensor (Tray transport). Does the sensor status change while toggling the sensor? | Go to step 20. | Go to step 18. |
| Step 18 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Reinstall or replace the sensor. See “Sensor (2500-sheet tray transport) removal” on page 893 . Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 Check the 2500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 21. |
| Step 21 Replace the controller board. See “2500-sheet tray controller board removal” on page 878 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

2 x 500-sheet tray 3 jam service check

| Action | Yes | No |
|---|----------------|------------------------|
| Step 1 Remove the paper jams and fragments along the paper path. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray sensor tests b Find the sensor (Tray 3 feed). Does the sensor status change while toggling the sensor? | Go to step 7. | Go to step 3. |
| Step 3 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Reinstall or replace the sensor. See “2 x 500-sheet tray transport assembly sensors removal” on page 923. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 7. | Go to step 6. |
| Step 6 Replace the 2 x 500-sheet tray 3 pick assembly sensor cable. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 3 b Select Single, and then touch Start . Does the leading edge of the paper reach the sensor (2 x 500-sheet tray 3 paper feed)? | Go to step 17. | Go to step 8. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 8 Check the following tray 3 rollers for damage: Note: If the page count is over 50K, then clean the rollers. <ul style="list-style-type: none"> • Feed roller • Pick roller • Separator roller Are the rollers free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the damaged rollers. See “2 x 500-sheet tray rollers removal” on page 910. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray motor tests > Tray 3 paper feed b Touch Start . Does the motor run? | Go to step 15. | Go to step 11. |
| Step 11 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Reinstall or replace the motor. See “2 x 500-sheet tray feed and transport motors removal” on page 917. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the continuity of the motor cable. Does the cable have continuity? | Go to step 15. | Go to step 14. |
| Step 14 Replace the 2 x 500-sheet tray 3 feed and transport motor cable. Does the problem remain? | Go to step 15. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 15 Check the following tray 3 components for misalignment, wear, and damage: <ul style="list-style-type: none"> • 2 x 500-sheet tray feed and transport motor belt • 2 x 500-sheet tray feed and transport primary gear • 2 x 500-sheet tray feed and transport secondary gear Are the belt and gears properly installed and free of wear and damage? | Go to step 17. | Go to step 16. |
| Step 16 Reinstall or replace the affected components. See “2 x 500-sheet tray 3 transport belts and gears removal” on page 926. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray sensor tests b Find the sensor (Tray 3 transport). Does the sensor status change while toggling the sensor? | Go to step 20. | Go to step 18. |
| Step 18 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Reinstall or replace the sensor. See “2 x 500-sheet tray transport assembly sensors removal” on page 923. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 Check the 2 x 500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 21. |
| Step 21 Replace the controller board. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

2 x 500-sheet tray 4 jam service check

| Action | Yes | No |
|---|----------------|------------------------|
| Step 1 Remove the paper jams and fragments along the paper path. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray sensor tests b Find the sensor (Tray 4 feed). Does the sensor status change while toggling the sensor? | Go to step 7. | Go to step 3. |
| Step 3 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Reinstall or replace the sensor. See “2 x 500-sheet tray transport assembly sensors removal” on page 923. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 7. | Go to step 6. |
| Step 6 Replace the 2 x 500-sheet tray 4 pick assembly sensor cable. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 4 b Select Single, and then touch Start . Does the leading edge of the paper reach the sensor (2 x 500-sheet tray 4 paper feed)? | Go to step 17. | Go to step 8. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 8 Check the following tray 4 rollers for damage: Note: If the page count is over 50K, then clean the rollers. <ul style="list-style-type: none"> • Feed roller • Pick roller • Separator roller Are the rollers free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the damaged rollers. See “2 x 500-sheet tray rollers removal” on page 910. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray motor tests > Tray 4 paper feed b Touch Start . Does the motor run? | Go to step 15. | Go to step 11. |
| Step 11 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Reinstall or replace the motor. See “2 x 500-sheet tray feed and transport motors removal” on page 917. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the continuity of the motor cable. Does the cable have continuity? | Go to step 15. | Go to step 14. |
| Step 14 Replace the 2 x 500-sheet tray 4 feed and transport motor cable. Does the problem remain? | Go to step 15. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 15 Check the following tray 4 components for misalignment, wear, and damage: <ul style="list-style-type: none"> • 2 x 500-sheet tray feed and transport motor belt • 2 x 500-sheet tray feed and transport primary gear • 2 x 500-sheet tray feed and transport secondary gear Are the belt and gears properly installed and free of wear and damage? | Go to step 17. | Go to step 16. |
| Step 16 Reinstall or replace the affected components. See “2 x 500-sheet tray 4 transport belts and gears removal” on page 927. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray sensor tests b Find the sensor (Tray 4 transport). Does the sensor status change while toggling the sensor? | Go to step 20. | Go to step 18. |
| Step 18 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Reinstall or replace the sensor. See “2 x 500-sheet tray transport assembly sensors removal” on page 923. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 Check the 2 x 500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 21. |
| Step 21 Replace the controller board. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

2 x 500-sheet tray 4 transport jam service check

| Action | Yes | No |
|---|----------------|------------------------|
| Step 1 Make sure that the paper path between tray 3 and tray 4, including the sensors, are free of debris or dust. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Enter the Diagnostics menu, and then navigate to: INPUT TRAY TESTS > Feed Tests > Tray 4 b Check the movement and position of the paper. Does the leading edge of the paper reach the sensor (tray 3 transport)? | Go to step 3. | Go to step 7. |
| Step 3 Check the sensor (tray 3 transport). Is it free of damage? | Go to step 4. | Go to step 6. |
| Step 4 Enter the Diagnostics menu, and then navigate to: SENSOR TESTS > PRINTER SENSOR TESTS > Tray 3 transport Does the sensor status change while toggling the sensor? | Go to step 12. | Go to step 5. |
| Step 5 a Reseat the sensor cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Replace the sensor (tray 3 transport). See “2 x 500-sheet tray transport assembly sensors removal” on page 923 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the tray 4 transport roller for damage, and replace if necessary. Note: If the page count is over 50K, then clean the rollers. Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 8 Enter the Diagnostics menu, and then navigate to: MOTOR TESTS > 2 x 500-Sheet Tray Motor Tests > Tray 4 transport Does the motor run? | Go to step 12. | Go to step 9. |
| Step 9 a Reseat the motor cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Check the tray 4 transport belt for proper tension, and adjust if necessary. b Check the transport gear and belt for wear or damage, and replace if necessary. See “2 x 500-sheet tray 4 transport belts and gears removal” on page 927. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Replace the motor (2 x 500-sheet tray 4 transport). See “2 x 500-sheet tray feed and transport motors removal” on page 917. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the 2 x 500-sheet tray controller board pins for damage, and replace if necessary. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

3000-sheet tray feed jam service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Open the top door, and then remove the paper jams and fragments along the paper path. b Make sure that the 3000-sheet tray is properly installed to the printer. c Reseat the interface cable that is plugged into the 2500- or 2 x 500-sheet tray, and then reset the printer. Does the problem remain? | Go to step 2. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 2 a Clear the 3000-sheet tray pick, feed, and separator rollers of debris and dust. b Check the tray rollers for misalignment, wear, and damage. Are the rollers properly installed and free of wear and damage? | Go to step 4. | Go to step 3. |
| Step 3 Reinstall or replace the affected rollers. See “3000-sheet tray rollers removal” on page 929 . Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Clear the 3000-sheet tray transport roller of debris and dust. b Check the tray roller for misalignment, wear, and damage. Is the roller properly installed and free of wear and damage? | Go to step 6. | Go to step 5. |
| Step 5 Reinstall or replace the roller. See “3000-sheet tray feed roller assembly removal” on page 951 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 3000-sheet tray sensor tests b Find the sensor (Tray upper limit) and sensor (Tray paper feed). Do the sensor statuses change while toggling the sensors? | Go to step 11. | Go to step 7. |
| Step 7 a Reseat the cable CN5 on the 3000-sheet tray controller board. b Reseat the cable of the affected sensor, and then clear the sensor of debris and dust. c Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Reinstall or replace the affected sensor. See “Sensor (3000-sheet tray elevator level) removal” on page 942 and “Sensor (3000-sheet tray feed) removal” on page 943 . Does the problem remain? | Go to step 9. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 9 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 11. | Go to step 10. |
| Step 10 Replace the 3000-sheet tray feed sensor cable. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 3000-sheet tray motor tests > Tray feed and Tray transport b Touch Start . Do the motors run? | Go to step 14. | Go to step 12. |
| Step 12 a Reseat the cable CN4 on the 3000-sheet tray controller board. b Reseat the cable of the affected motor, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Reinstall or replace the affected motor. See “3000-sheet tray feed and transport motors removal” on page 950 . Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the following components for misalignment, wear, and damage: <ul style="list-style-type: none"> • 3000-sheet tray feed and pick belt • 3000-sheet feed and pick drive gear • 3000-sheet tray feed gear • 3000-sheet tray feed motor idler gear • 3000-sheet tray feed and pick idler gear • 3000-sheet tray feed motor gear • 3000-sheet tray transport roller drive gear Are the belt and gears properly installed and free of wear and damage? | Go to step 16. | Go to step 15. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 15 Reinstall or replace the affected components. See the following: <ul style="list-style-type: none"> • “3000-sheet tray feed and pick belt removal” on page 931 • “3000-sheet tray pick roller assembly removal” on page 954 • “3000-sheet tray feed roller assembly removal” on page 951 • “3000-sheet tray feed and transport motors removal” on page 950 Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Reseat all the cables on the 3000-sheet controller board. b If applicable, reseat the junction connectors on the cables. c Make sure that the cables do not interfere with moving parts. Does the problem remain? | Contact the next level of support. | The problem is solved. |

250 paper jams

250 paper jam messages

| Error code | Description | Action |
|------------|--|---|
| 250.03 | The sensor (registration) did not detect the paper fed from the MPF. | See “MPF jam service check” on page 187 . |
| 250.04 | While feeding from the MPF, the paper did not reach the registration roller in time. | |

MPF jam service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Make sure that the MPF paper path, including the sensors, are free of debris or dust. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Check the MPF paper present sensor actuator for damage, and replace if necessary. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 3 Check the sensor (MPF paper present). Is it free of damage? | Go to step 4. | Go to step 7. |
| Step 4 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (MPF paper present). Does the sensor status change while toggling the sensor? | Go to step 5. | Go to step 8. |
| Step 5 a Reseat the MPF paper present sensor cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Replace the sensor (MPF paper present). Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Make sure that the MPF lift plate, including the cam and gears, are properly installed. b Check the plate, including the cam and gears, for damage, and replace if necessary. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Observe the MPF lift plate solenoid. Is it working properly? | Go to step 10. | Go to step 9. |
| Step 9 a Reseat the MPF lift plate solenoid cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the MPF lift plate solenoid, including the actuator for wear or damage, and replace if necessary. See “MPF lift plate solenoid removal” on page 482 . Does the problem remain? | Go to step 11. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 11 Observe the MPF lift plate clutch. Is it working properly? | Go to step 13. | Go to step 12. |
| Step 12 a Reseat the MPF lift plate clutch cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the MPF lift plate clutch for damage, and replace if necessary. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the sensor (MPF lift plate). Is it free of damage? | Go to step 15. | Go to step 18. |
| Step 15 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (MPF lift plate). Does the sensor status change while toggling the sensor? | Go to step 18. | Go to step 16. |
| Step 16 a Reseat the MPF lift plate sensor cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Replace the sensor (MPF lift plate). Does the problem remain? | Go to step 18. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 18 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests . b Find the motor (transport), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 22. | Go to step 19. |
| Step 19 a Reseat the transport motor cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 a Check the paper feed belt for proper tension, and adjust if necessary. b Check the paper feed gear and belt for wear or damage, and replace if necessary. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 Replace the motor (transport). See “Motor (transport) removal” on page 631 . Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 a Make sure that the MPF is properly installed. b Check the MPF for damage, and replace if necessary. See “MPF removal” on page 460 . Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 24. | The problem is solved. |
| Step 24 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

280 paper jams

280 paper jam messages

| Error code | Description | Action |
|------------|---|---|
| 280.11 | Paper remains detected at the sensor (ADF scan) after the printer is turned on. | See “Sensor (ADF scan) static jam service check” on page 191. |
| 280.13 | Paper never arrived at the sensor (ADF scan). | See “ADF scan jam service check” on page 192. |
| 280.15 | Paper never cleared the sensor (ADF scan). | |

Sensor (ADF scan) static jam service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 Check the paper path for paper jams and fragments. Is the paper path free of jams and fragments? | Go to step 3. | Go to step 2. |
| Step 2 Remove the paper jams and fragments. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF 1st scan). Does the sensor status change while toggling the sensor? | Go to step 6. | Go to step 4. |
| Step 4 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the sensor. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Load an undamaged document into the ADF tray, and then copy the document. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF scan jam service check

| Actions | Yes | No |
|---|----------------|------------------------|
| Step 1 Check the ADF paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples. Is the paper path free of obstructions and contaminations? | Go to step 3. | Go to step 2. |
| Step 2 Remove the obstructions and contaminations. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the condition of the ADF feed roller. Is the feed roller free from excess wear, contamination, and damage? | Go to step 5. | Go to step 4. |
| Step 4 Clean or replace the feed roller. See “ADF feed roller removal” on page 764. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the condition of the ADF separator roller. Is the separator roller free from excess wear, contamination, and damage? | Go to step 7. | Go to step 6. |
| Step 6 Clean or replace the separator roller. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF deskew). Does the sensor status change while toggling the sensor? | Go to step 10. | Go to step 8. |
| Step 8 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 9 Replace the sensor. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF 1st scan). Does the sensor status change while toggling the sensor? | Go to step 13. | Go to step 11. |
| Step 11 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Replace the sensor. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF exit). Does the sensor status change while toggling the sensor? | Go to step 16. | Go to step 14. |
| Step 14 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Replace the sensor. See “Sensor (ADF exit) removal” on page 804. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Feed Test b Observe the movement of the paper and the rollers. Does the ADF registration roller turn? | Go to step 19. | Go to step 17. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 17 Reseat the ADF registration motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 19. | Go to step 18. |
| Step 18 Reinstall or replace the motor. See “Motor (ADF registration) removal” on page 815. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 Check the ADF registration belt and gear for misalignment and damage. Are the belt and gear properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Reinstall or replace the affected belt or gear. See “ADF registration gear removal” on page 818. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 Check the ADF registration roller for damage. Is the roller free of damage? | Go to step 23. | Go to step 22. |
| Step 22 Replace the roller. See “ADF registration roller removal” on page 818. Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Feed Test b Check the motor (ADF scan). Does the motor run? | Go to step 26. | Go to step 24. |
| Step 24 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 26. | Go to step 25. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 25 Reinstall or replace the motor. See “Motor (ADF scan) removal” on page 812. Does the problem remain? | Go to step 26. | The problem is solved. |
| Step 26 Check the ADF scan motor belt for misalignment and damage. Is the belt properly installed and free of damage? | Go to step 28. | Go to step 27. |
| Step 27 Reinstall or replace the belt. See “ADF scan motor belt removal” on page 822. Does the problem remain? | Go to step 28. | The problem is solved. |
| Step 28 Check the ADF scan roller 1 for damage. Is the roller free of damage? | Go to step 30. | Go to step 29. |
| Step 29 Replace the roller. See “ADF scan roller 1 removal” on page 825. Does the problem remain? | Go to step 30. | The problem is solved. |
| Step 30 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Feed Test b Check the motor (ADF scan shaft release). Does the motor run? | Go to step 33. | Go to step 31. |
| Step 31 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 33. | Go to step 32. |
| Step 32 Reinstall or replace the motor. See “Motor (ADF scan shaft release) removal” on page 811. Does the problem remain? | Go to step 33. | The problem is solved. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 33 Check the scan shaft release mechanism for misalignment and damage. <ul style="list-style-type: none"> • Check the gear. • Check the cam. • Check the roller and its actuator. Is the mechanism properly installed and free of damage? | Go to step 35. | Go to step 34. |
| Step 34 Reinstall or replace the damaged component. See “ADF scan deflector removal” on page 835 . Does the problem remain? | Go to step 35. | The problem is solved. |
| Step 35 a Reseat all connectors on the ADF controller board, and then reset the printer. b Load an undamaged document into the ADF tray, and then copy the document. Does the problem remain? | Go to step 36. | The problem is solved. |
| Step 36 Replace the ADF controller board. See “ADF controller board removal” on page 773 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

281 paper jams

281 paper jam messages

| Error code | Description | Action |
|------------|---|--|
| 281.11 | Paper remains detected at the sensor (ADF pick) after the printer is turned on. | See “Sensor (ADF pick) static jam service check” on page 197 . |
| 281.15 | Paper never cleared the sensor (ADF pick). | See “ADF pick jam service check” on page 197 . |
| 281.16 | Paper never arrived at the sensor (ADF pick). | |

Sensor (ADF pick) static jam service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 Check the paper path for paper jams and fragments. Is the paper path free of jams and fragments? | Go to step 3. | Go to step 2. |
| Step 2 Remove the paper jams and fragments. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF pick). Does the sensor status change while toggling the sensor? | Go to step 6. | Go to step 4. |
| Step 4 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the sensor. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Load an undamaged document into the ADF tray, and then copy the document. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF pick jam service check

| Actions | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the ADF tray and paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples. Are the ADF tray and paper path free of obstructions and contaminations? | Go to step 3. | Go to step 2. |
| Step 2 Remove the obstructions and contaminations. Does the problem remain? | Go to step 3. | The problem is solved. |

| Actions | Yes | No |
|---|----------------|------------------------|
| Step 3 Check the condition of the ADF pick roller. Is the pick roller free from excess wear, contamination, and damage? | Go to step 5. | Go to step 4. |
| Step 4 Clean or replace the pick roller. See “ADF pick assembly removal” on page 756. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the condition of the ADF feed roller. Is the feed roller free from excess wear, contamination, and damage? | Go to step 7. | Go to step 6. |
| Step 6 Clean or replace the feed roller. See “ADF feed roller removal” on page 764. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the condition of the ADF separator roller. Is the separator roller free from excess wear, contamination, and damage? | Go to step 9. | Go to step 8. |
| Step 8 Clean or replace the separator roller. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF pick). Does the sensor status change while toggling the sensor? | Go to step 12. | Go to step 10. |
| Step 10 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 11. | The problem is solved. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 11 Replace the sensor. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Feed Test b Check the motor (ADF feed). Does the motor run? | Go to step 15. | Go to step 13. |
| Step 13 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Reinstall or replace the motor. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Check the ADF pick belt for misalignment and damage. Is the belt properly installed and free of damage? | Go to step 17. | Go to step 16. |
| Step 16 Reinstall or replace the belt. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF deskew). Does the sensor status change while toggling the sensor? | Go to step 20. | Go to step 18. |
| Step 18 Check the sensor cable for proper connection, and then reseat if necessary. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 Replace the sensor. Does the problem remain? | Go to step 20. | The problem is solved. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 20 a Reseat all connectors on the ADF controller board, and then reset the printer. b Load an undamaged document into the ADF tray, and then copy the document. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 Replace the ADF controller board. See “ADF controller board removal” on page 773 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

282 paper jams

282 paper jam messages

| Error code | Description | Action |
|------------|---|--|
| 282.11 | Paper remains detected at the sensor (ADF exit) after the printer is turned on. | See “Sensor (ADF exit) static jam service check” on page 200 . |
| 282.13 | Paper never arrived at the sensor (ADF exit). | See “ADF exit jam service check” on page 201 . |
| 282.15 | Paper never cleared the sensor (ADF exit). | |

Sensor (ADF exit) static jam service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the paper path for paper jams and fragments. Is the paper path free of jams and fragments? | Go to step 3. | Go to step 2. |
| Step 2 Remove the paper jams and fragments. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF media exit). Does the sensor status change while toggling the sensor? | Go to step 6. | Go to step 4. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 4 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the sensor. See “Sensor (ADF exit) removal” on page 804. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Load an undamaged document into the ADF tray, and then copy the document. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF exit jam service check

| Actions | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the ADF bin and paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples. Is the ADF bin and paper path free of obstructions and contaminations? | Go to step 3. | Go to step 2. |
| Step 2 Remove the obstructions and contaminations. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF 1st scan). Does the sensor status change while toggling the sensor? | Go to step 6. | Go to step 4. |
| Step 4 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 5. | The problem is solved. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 5 Replace the sensor. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Feed Test b Check the motor (ADF scan). Does the motor run? | Go to step 8. | Go to step 7. |
| Step 7 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Reinstall or replace the motor. See “Motor (ADF scan) removal” on page 812. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the ADF scan motor belt for misalignment and damage. Is the belt properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Reinstall or replace the belt. See “ADF scan motor belt removal” on page 822. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the following roller mechanisms for misalignment and damage: <ul style="list-style-type: none"> • ADF scan roller 1 and its gear • ADF scan roller 2 and its gear Are the roller mechanisms properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the damaged component. See “ADF scan roller 1 removal” on page 825 , “ADF scan roller 2 removal” on page 827 , and “ADF scan roller 2 gear removal” on page 777. Does the problem remain? | Go to step 13. | The problem is solved. |

| Actions | Yes | No |
|---|----------------|------------------------|
| Step 13 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Feed Test b Check the motor (ADF scan shaft release). Does the motor run? | Go to step 16. | Go to step 14. |
| Step 14 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Reinstall or replace the motor. See “Motor (ADF scan shaft release) removal” on page 811 . Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the scan shaft release mechanism for misalignment and damage. <ul style="list-style-type: none"> • Check the gear. • Check the cam. • Check the roller and its actuator. Is the mechanism properly installed and free of damage? | Go to step 18. | Go to step 17. |
| Step 17 Reinstall or replace the damaged component. See “ADF scan deflector removal” on page 835 . Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Check the following roller mechanisms for misalignment and damage: <ul style="list-style-type: none"> • Check the ADF scan/exit roller belt. • Check ADF scan roller 3 and its gear. • Check the ADF document exit roller and its gear. Are the roller mechanisms properly installed and free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Reinstall or replace the damaged component. See “ADF document exit roller removal” on page 829 , “ADF scan roller 3 removal” on page 826 , and “ADF scan roller 3 gear removal” on page 806 . Does the problem remain? | Go to step 20. | The problem is solved. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 20 a Reseat all connectors on the ADF controller board, and then reset the printer. b Load an undamaged document into the ADF tray, and then copy the document. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 Replace the ADF controller board. See “ADF controller board removal” on page 773 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

283 paper jams

283 paper jam messages

| Error code | Description | Action |
|------------|---|--|
| 283.11 | Paper remains detected at the sensor (ADF deskew) after the printer is turned on. | See “Sensor (ADF registration) static jam service check” on page 204 . |
| 283.13 | Paper never arrived at the sensor (ADF deskew). | See “ADF registration jam service check” on page 205 . |
| 283.15 | Paper never cleared the sensor (ADF deskew). | |

Sensor (ADF registration) static jam service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the paper path for paper jams and fragments. Is the paper path free of jams and fragments? | Go to step 3. | Go to step 2. |
| Step 2 Remove the paper jams and fragments. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 3 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF deskew). Does the sensor status change while toggling the sensor? | Go to step 6. | Go to step 4. |
| Step 4 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the sensor. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Load an undamaged document into the ADF tray, and then copy the document. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF registration jam service check

| Actions | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the ADF paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples. Is the paper path free of obstructions and contaminations? | Go to step 3. | Go to step 2. |
| Step 2 Remove the obstructions and contaminations. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the condition of the ADF pick roller. Is the pick roller free from excess wear, contamination, and damage? | Go to step 5. | Go to step 4. |
| Step 4 Clean or replace the pick roller. See “ADF pick assembly removal” on page 756 . Does the problem remain? | Go to step 5. | The problem is solved. |

| Actions | Yes | No |
|---|----------------|------------------------|
| Step 5 Check the condition of the ADF feed roller. Is the feed roller free from excess wear, contamination, and damage? | Go to step 7. | Go to step 6. |
| Step 6 Clean or replace the feed roller. See “ADF feed roller removal” on page 764. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the condition of the ADF separator roller. Is the separator roller free from excess wear, contamination, and damage? | Go to step 9. | Go to step 8. |
| Step 8 Clean or replace the separator roller. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF deskew). Does the sensor status change while toggling the sensor? | Go to step 12. | Go to step 10. |
| Step 10 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Replace the sensor. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF pick). Does the sensor status change while toggling the sensor? | Go to step 15. | Go to step 13. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 13 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Replace the sensor. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF 1st scan). Does the sensor status change while toggling the sensor? | Go to step 18. | Go to step 16. |
| Step 16 Check the sensor cable for proper connection, and then reseal if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Replace the sensor. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Feed Test b Observe the movement of the paper and the rollers. Does the ADF registration roller turn? | Go to step 21. | Go to step 19. |
| Step 19 Reseat the ADF registration motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Reinstall or replace the motor. See “Motor (ADF registration) removal” on page 815 . Does the problem remain? | Go to step 21. | The problem is solved. |

| Actions | Yes | No |
|--|----------------|------------------------|
| Step 21 Check the ADF registration belt and gear for misalignment and damage. Are the belt and gear properly installed and free of damage? | Go to step 23. | Go to step 22. |
| Step 22 Reinstall or replace the affected belt or gear. See “ADF registration gear removal” on page 818. Does the problem remain? | Go to step 23. | The problem is solved. |
| Step 23 Check the ADF registration roller for damage. Is the roller free of damage? | Go to step 25. | Go to step 24. |
| Step 24 Replace the roller. See “ADF registration roller removal” on page 818. Does the problem remain? | Go to step 25. | The problem is solved. |
| Step 25 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Feed Test b Check the motor (ADF scan). Does the motor run? | Go to step 28. | Go to step 26. |
| Step 26 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 28. | Go to step 27. |
| Step 27 Reinstall or replace the motor. See “Motor (ADF scan) removal” on page 812. Does the problem remain? | Go to step 28. | The problem is solved. |
| Step 28 Check the ADF scan motor belt for misalignment and damage. Is the belt properly installed and free of damage? | Go to step 30. | Go to step 29. |

| Actions | Yes | No |
|---|----------------|------------------------|
| Step 29 Reinstall or replace the belt. See “ADF scan motor belt removal” on page 822. Does the problem remain? | Go to step 30. | The problem is solved. |
| Step 30 Check the ADF scan roller 1 for damage. Is the roller free of damage? | Go to step 32. | Go to step 31. |
| Step 31 Replace the roller. See “ADF scan roller 1 removal” on page 825. Does the problem remain? | Go to step 32. | The problem is solved. |
| Step 32 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Feed Test b Check the motor (ADF scan shaft release). Does the motor run? | Go to step 34. | Go to step 33. |
| Step 33 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 35. | Go to step 34. |
| Step 34 Reinstall or replace the motor. See “Motor (ADF scan shaft release) removal” on page 811. Does the problem remain? | Go to step 35. | The problem is solved. |
| Step 35 Check the scan shaft release mechanism for misalignment and damage: <ul style="list-style-type: none"> • Check the gear. • Check the cam. • Check the roller and its actuator. Is the mechanism properly installed and free of damage? | Go to step 37. | Go to step 36. |
| Step 36 Reinstall or replace the damaged components. See “ADF scan deflector removal” on page 835. Does the problem remain? | Go to step 37. | The problem is solved. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 37 a Reseat all connectors on the ADF controller board, and then reset the printer. b Load an undamaged document into the ADF tray, and then copy the document. Does the problem remain? | Go to step 38. | The problem is solved. |
| Step 38 Replace the ADF controller board. See “ADF controller board removal” on page 773 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

User attendance messages

31–39 user attendance errors

31–39 user attendance messages

| Error code | Description | Action |
|------------|--|---|
| 31.00 | Missing or unresponsive toner cartridge. | See “Missing or unresponsive cartridge service check” on page 217 . |
| 31.30 | Transfer belt smart chip or sensor communication problem was detected. | See “Toner cartridge or photoconductor error service check” on page 220 . |
| 31.40 | Toner cartridge (K) smart chip or sensor communication problem was detected. | |
| 31.41 | Toner cartridge (C) smart chip or sensor communication problem was detected. | |
| 31.42 | Toner cartridge (M) smart chip or sensor communication problem was detected. | |
| 31.43 | Toner cartridge (Y) smart chip or sensor communication problem was detected. | |
| 31.50 | Developer unit (K) error. | See “Developer unit (K) failure service check” on page 216 . |
| 31.51 | Developer unit (C) error. | See “Developer unit (C) failure service check” on page 212 . |
| 31.52 | Developer unit (M) error. | See “Developer unit (M) failure service check” on page 213 . |
| 31.53 | Developer unit (Y) error. | See “Developer unit (Y) failure service check” on page 215 . |

| Error code | Description | Action |
|------------|---|---|
| 31.60 | Missing or unresponsive K photoconductor. | See “Missing or unresponsive photoconductor service check” on page 219. |
| 31.61 | Missing or unresponsive C photoconductor. | |
| 31.62 | Missing or unresponsive M photoconductor. | |
| 31.63 | Missing or unresponsive Y photoconductor. | |
| 32.40 | The third party toner cartridge (K) is unsupported. | See “Unsupported third party supplies service check” on page 221. |
| 32.41 | The third party toner cartridge (C) is unsupported. | |
| 32.42 | The third party toner cartridge (M) is unsupported. | |
| 32.43 | The third party toner cartridge (Y) is unsupported. | |
| 32.50 | The third party developer (K) is unsupported. | |
| 32.51 | The third party developer (C) is unsupported. | |
| 32.52 | The third party developer (M) is unsupported. | |
| 32.53 | The third party developer (Y) is unsupported. | |
| 32.6 | The third party imaging unit/photoconductor (K) is unsupported. | |
| 32.61 | The third party imaging unit/photoconductor (C) is unsupported. | |
| 32.62 | The third party imaging unit/photoconductor (M) is unsupported. | |
| 32.63 | The third party imaging unit/photoconductor (Y) is unsupported. | |
| 32.80 | The third party fuser is unsupported. | |
| 35.xx | The printer memory is insufficient to enable Resource Save. | See “Insufficient memory service check” on page 223. |
| 37.xx | The printer memory is insufficient to do the job. | |
| 38.xx | The memory is full. | |
| 39.xx | The page is too complex to properly print. | See “Complex page service check” on page 223. |

Developer unit (C) failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the developer unit (C) cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 2. | Go to step 4. |
| Step 2 Make sure that the developer toner inlet is properly connected to the toner agitator. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Clean the developer unit (C) contacts. b Reseat the developer unit cable on both ends. c Reseat the developer unit. d Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the developer unit. See “Developer unit (C) removal” on page 575 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the image controller board. See “Image controller board removal” on page 571 . Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 8 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 10. |
| Step 10 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Developer unit (M) failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the developer unit (M) cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 2. | Go to step 4. |
| Step 2 Make sure that the developer toner inlet is properly connected to the toner agitator. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Clean the developer unit (M) contacts. b Reseat the developer unit cable on both ends. c Reseat the developer unit. d Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the developer unit. See “Developer unit (M) removal” on page 574 . Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 5 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the image controller board. See “Image controller board removal” on page 571. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 10. |
| Step 10 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Developer unit (Y) failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the developer unit (Y) cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 2. | Go to step 4. |
| Step 2 Make sure that the developer toner inlet is properly connected to the toner agitator. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Clean the developer unit (Y) contacts. b Reseat the developer unit cable on both ends. c Reseat the developer unit. d Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the developer unit. See “Developer unit (Y) removal” on page 573 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the image controller board. See “Image controller board removal” on page 571 . Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 8 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 10. |
| Step 10 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Developer unit (K) failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the developer unit (K) cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 2. | Go to step 4. |
| Step 2 Make sure that the developer toner inlet is properly connected to the toner agitator. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Clean the developer unit (K) contacts. b Reseat the developer unit cable on both ends. c Reseat the developer unit. d Check the developer unit for proper installation and damage. Is the developer unit properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the developer unit. See “Developer unit (K) removal” on page 576 . Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 5 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the image controller board. See “Image controller board removal” on page 571. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 10. |
| Step 10 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Missing or unresponsive cartridge service check

| Action | Yes | No |
|---|---------------|---------------|
| Step 1 a Determine the missing or unresponsive toner cartridge. b Check if the affected toner cartridge is empty. Is the toner cartridge empty? | Go to step 3. | Go to step 2. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 2 a Clear the toner cartridge chip of contamination. b Make sure that the toner cartridge tip is properly aligned with the toner cartridge contacts. c Make sure that the toner cartridge bottle can rotate. d Check the toner cartridge for proper installation and damage. Is the toner cartridge properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the affected toner cartridge. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the toner cartridge relay contact cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the toner cartridge relay contact cable. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the toner cartridge contact of the affected color for proper installation and damage. Is the toner cartridge contact properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the toner cartridge contact. See “Toner cartridge contact removal” on page 576 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the toner agitator for proper installation and damage. Is the toner agitator properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the toner agitator. See “Toner agitator removal” on page 592 . Does the problem remain? | Go to step 10. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 10 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 12. |
| Step 12 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Missing or unresponsive photoconductor service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Determine the missing or unresponsive photoconductor. b Clear the affected photoconductor chip of contamination. c Make sure that the photoconductor chip is properly aligned with the photoconductor relay contact. d Check the photoconductor for proper installation and damage. Is the photoconductor properly installed and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the affected photoconductor. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the photoconductor relay contact for proper installation and damage. Is the photoconductor relay contact properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the photoconductor relay contact. See “Photoconductor relay contact removal” on page 581 . Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 5 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 7. |
| Step 7 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Toner cartridge or photoconductor error service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Make sure that the toner cartridge and photoconductor unit are properly installed. b Make sure that the toner cartridge and photoconductor unit are supported. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Make sure that the photoconductor contact cables are properly connected. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the toner cartridge and photoconductor contacts for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Reseat the cables on the toner agitator assembly. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 5 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the image controller board. See “Image controller board removal” on page 571. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 a Reseat all cable connectors on the controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Unsupported third party supplies service check

| Action | Yes | No |
|---|---------------|------------------------------------|
| Step 1 Check if any of the following components are third party supplies: <ul style="list-style-type: none"> • Toner cartridge • Developer unit • Fuser • Photoconductor • Transfer belt Are any of the components third party supplies? | Go to step 2. | Contact the next level of support. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 2 Replace the third party supplies with genuine Lexmark supplies. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Mismatched paper size service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 a Make sure that the tray paper length and width guides are properly installed. b Check the guides for wear or damage, and replace if necessary. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Check the tray paper width and length sensor actuators for damage, and replace if necessary. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the tray paper width and length sensor cables. b Check the cables for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Check the sensor (tray paper width) and sensor (tray paper length) for proper installation and damage. b Reseat the sensor cable connectors on both ends. Are the sensors properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the damaged sensor. See “Sensor (tray 1 paper width) removal” on page 647 , “Sensor (tray 2 paper width) removal” on page 649 , “Sensor (tray 1 paper length) removal” on page 685 , or “Sensor (tray 2 paper length) removal” on page 685 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Reseat all cable connectors on the controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Insufficient memory service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 Reset the printer, and then navigate to: Settings > Print > Setup > Download Target > Disk Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 If applicable, install extra memory card. If applicable, make sure that the additional memory card is properly installed. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Complex page service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 Reset the printer, and then navigate to: Settings > Print > Setup > Download Target > Disk Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 1 > Single Does the problem remain? | Go to step 4. | Go to step 3. |
| Step 3 If applicable, install extra memory card. If applicable, make sure that the additional memory card is properly installed. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

42–59 user attendance errors

42–59 user attendance messages

| Error code | Description | Action |
|------------|---|--|
| 42.xx | The cartridge is incompatible due to printer region mismatch. | See “Toner cartridge or photoconductor error service check” on page 220. |
| 50.xx | PPDS font error was detected. | See “PPDS font error service check” on page 224. |
| 51.xx | The flash memory is defective. | See “Flash memory failure service check” on page 225. |
| 52.xx | The flash memory is insufficient. | See “Insufficient flash memory service check” on page 225. |
| 53.xx | The flash memory is unformatted. | See “Flash memory failure service check” on page 225. |
| 54.xx | The printer was not able to communicate with the network. | See “Network service check” on page 226. |
| 55.xx | The internal option installed is unsupported. | See “Unsupported internal option service check” on page 229. |
| 56.xx | The parallel port, serial port, or standard USB port is disabled. | See “Disabled port service check” on page 229. |
| 58.xx | The disks, trays, or bins installed are too many. | See “Excess options service check” on page 230. |
| 59.xx | The input option or output option is incompatible. | See “Incompatible hardware option service check” on page 231. |

PPDS font error service check

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 1 Navigate to Settings > Print > Layout > Print Area > Fit to Page . Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Make sure that the font is supported by the memory card. Replace the memory card if necessary. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Flash memory failure service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 Navigate to Settings > Print > Job Accounting > Log Near Full Level . Make sure that the value is set to maximum. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 If applicable, make sure that the optional memory card is supported. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613 . Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Make sure that the firmware version is the latest, and update if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Insufficient flash memory service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Navigate to Settings > USB Drive > Flash Drive Scan > Format Flash . Does the problem remain? | Go to step 3. | Go to step 2. |
| Step 2 Navigate to Settings > Print > Job Accounting > Log Near Full Level . Make sure that the value is set to maximum. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 If applicable, make sure that the optional memory card is supported. Does the problem remain? | Go to step 4. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 4 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Make sure that the firmware version is the latest, and update if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Network service check

Note: Before starting this service check, print the network setup page. This page is found under **Settings > Reports > Network**. Consult the network administrator to make sure that the physical and wireless network settings displayed on the network settings page for the printer are properly configured. If a wireless network is used, then make sure that the printer is in the range of the host computer or wireless access point. Make sure that there is no electronic interference in the wireless network. Have the network administrator check that the printer is using the correct SSID, and wireless security protocols.

| Actions | Yes | No |
|---|---------------|------------------------|
| Step 1 If the printer is physically connected to the network, make sure that the Ethernet cable is properly connected on both ends. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 If the network is wireless, check the online status of the printer under Printers and Faxes on the host computer. Delete all print jobs in the print queue. Is the printer online and in Ready state? | Go to step 4. | Go to step 3. |
| Step 3 Change the printer status to online. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the IP address displayed on the network settings page. Does it match the IP address in the port of the drivers using the printer? | Go to step 9. | Go to step 5. |

| Actions | Yes | No |
|--|----------------|------------------------------------|
| Step 5 Note: A printer should use a static IP address on a network. Does the LAN use DHCP? | Go to step 6. | Go to step 8. |
| Step 6 Check the first two segments of the IP address. Does the IP address start with 169.254? | Go to step 7. | Go to step 8. |
| Step 7 Reset the printer. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 8 Reset the address on the printer to match the IP address on the driver. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Have the network administrator check if the printer and computer IP address have identical subnet addresses. Are the subnet addresses the same? | Go to step 11. | Go to step 10. |
| Step 10 Using the subnet address supplied by the network administrator, assign a unique IP address to the printer. Note: The printer IP address should match the IP address on the print driver. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Is the printer physically connected (Ethernet cable) to the network? | Go to step 12. | Go to step 15. |
| Step 12 Try using a different Ethernet cable. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Have the network administrator check the network drop for activity. Is the network drop functioning properly? | Go to step 14. | Contact the network administrator. |

| Actions | Yes | No |
|---|------------------------------------|------------------------------------|
| Step 14 Replace the controller board. See “Controller board removal” on page 613. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Is the printer on the same wireless network as the other devices? | Go to step 17. | Go to step 16. |
| Step 16 Assign the correct wireless network to the printer. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Are the other devices on the wireless network communicating properly? | Go to step 18. | Contact the network administrator. |
| Step 18 Make sure that the wireless card on the controller board is properly installed. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 If there is an attached antenna, check it for damage, and replace if necessary. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 Make sure that the antenna is properly connected to the wireless card. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 Replace the wireless card. Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 Replace the controller board. See “Controller board removal” on page 613. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Unsupported internal option service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 If applicable, make sure that the option cards are supported. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Make sure that the firmware version is the latest, and update if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Disabled port service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Make sure that the cables connected to ports are properly installed. b Check the cables for damage, and replace if necessary. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 From the home screen, touch Settings > Network/Ports , and then make sure that the applicable port settings are enabled. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 If applicable, make sure that the option card is supported. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613 . Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 5 Make sure that the firmware version is the latest, and update if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Excess options service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 Reset the printer, and then resend the print job. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 If applicable, make sure that the internal option is supported. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a If applicable, remove all internal options. b Reset the printer, and then resend the print job. Does the problem remain? | Go to step 6. | Go to step 4. |
| Step 4 Check if the number of internal options installed is allowed, and remove the excess option. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check if the number of input options installed is allowed, and remove the excess option. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Incompatible hardware option service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 Warning—Potential Damage: Do not perform this step if the printer is on. a Reseat the hardware option cables. b Check the cables for damage, and replace if necessary. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Check the firmware version of the hardware option if it is supported by the engine firmware. Update the firmware if necessary. Note: Contact the next level of support for the correct firmware version. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the hardware option controller board pins for damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

61–88 user attendance errors

61–88 user attendance messages

| Error code | Description | Action |
|------------|--|--|
| 61.xx | The hard disk is defective. | See “Hard disk failure service check” on page 232. |
| 62.xx | The hard disk is full. | |
| 80.xx | The printer requires maintenance. The appropriate maintenance kit needs to be installed. | See “Maintenance kit service check” on page 233. |
| 84.xx | A photoconductor unit end of life error was detected: <ul style="list-style-type: none"> The photoconductor unit life is low, nearly low, or very low. The photoconductor unit needs to be replaced. | See “Toner cartridge or photoconductor error service check” on page 220. |
| 85.xx | A developer unit end of life error was detected: <ul style="list-style-type: none"> The developer unit life is low, nearly low, or very low. The developer unit needs to be replaced. | See “Toner cartridge or photoconductor error service check” on page 220. |

| Error code | Description | Action |
|------------|---|---|
| 88.xx | <p>A toner cartridge end of life error was detected:</p> <ul style="list-style-type: none"> The toner cartridge supply is low, nearly low, or very low. The toner cartridge needs to be replaced. | See “Toner cartridge or photoconductor error service check” on page 220 . |

Hard disk failure service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| <p>Step 1</p> <p>Delete unnecessary files:</p> <ul style="list-style-type: none"> Navigate to Settings > Device > Maintenance > Out-of-Service Erase > Erase Hard Disk > Sanitize all information on hard disk > Erase downloads > Delete now. Navigate to Settings > Maintenance > Configuration Menu > Disk Configuration > Jobs on Disk > Delete. <p>Does the problem remain?</p> | Go to step 2. | The problem is solved. |
| <p>Step 2</p> <p>Make sure that the firmware version is the latest.</p> <p>Note: The latest firmware versions are available on the Technical service bulletins at support.lexmark.com.</p> <p>Does the problem remain?</p> | Go to step 3. | The problem is solved. |
| <p>Step 3</p> <p>a Make sure that the hard disk cable is properly installed.</p> <p>b Check the cable for damage, and replace if necessary.</p> <p>Does the problem remain?</p> | Go to step 4. | The problem is solved. |
| <p>Step 4</p> <p>a Make sure that the hard disk is properly installed.</p> <p>b Check the hard disk for damage, and replace if necessary.</p> <p>Does the problem remain?</p> | Go to step 5. | The problem is solved. |
| <p>Step 5</p> <p>Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613.</p> <p>Does the problem remain?</p> | Contact the next level of support. | The problem is solved. |

Maintenance kit service check

| Action | Yes | No |
|--|------------------------------------|------------------------|
| <p>Warning—Potential Damage: Do not perform this step if the printer is on.</p> <p>a Replace the required maintenance kit.</p> <p>b Reset the maintenance counter. See “Resetting the maintenance counter” on page 983.</p> <p>Does the problem remain?</p> | Contact the next level of support. | The problem is solved. |

Printer hardware errors

110 errors

110 error messages

| Error code | Description | Action |
|------------|---------------------------------------|--|
| 110.31 | Motor (polygon) malfunction. | See “Motor (polygon) failure service check” on page 233 . |
| 110.35 | Motor (polygon) malfunction. | |
| 110.70 | Printhead driver communication error. | See “Printhead driver communication error service check” on page 235 . |

Motor (polygon) failure service check

| Action | Yes | No |
|--|---------------|---------------|
| <p>Step 1</p> <p>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests</p> <p>b Find the motor (polygon), open the front door or right door, and then touch Start.</p> <p>c Wait until the Cancel button is replaced with the OK button, and then touch OK.</p> <p>d Close the front door or right door.</p> <p>Does the motor run?</p> | Go to step 8. | Go to step 2. |
| <p>Step 2</p> <p>a Reseat all cable connectors on the printhead relay board.</p> <p>b Check the printhead relay board for proper installation and damage.</p> <p>Is the board properly installed and free of damage?</p> | Go to step 4. | Go to step 3. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 3 Replace the printhead relay board. See “Printhead relay board removal” on page 427. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Reseat the printhead FFC on both ends. b Check the printhead FFC for proper installation and damage. Is the printhead FFC properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the printhead FFC. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Reseat all cable connectors on the image controller board. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Reseat all cable connectors on the engine board. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the printhead for proper installation and damage. Is the printhead properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the printhead. See “Printhead removal” on page 424. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Check all cable connectors on the image controller board for proper connection and damage, and replace if necessary. b Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the image controller board. See “Image controller board removal” on page 571. Does the problem remain? | Go to step 12. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 12 a Check all cable connectors on the engine board for proper connection and damage, and replace if necessary. b Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 13. |
| Step 13 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Printhead driver communication error service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Reseat the printhead FFC connector on both ends. b Check the printhead FFC for proper connection and damage. Is the printhead FFC properly connected and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the printhead FFC. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat all cable connectors on the printhead relay board. b Check the printhead relay board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the printhead relay board. See “Printhead relay board removal” on page 427 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the printhead for proper installation and damage. Is the printhead properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the printhead. See “Printhead removal” on page 424 . Does the problem remain? | Go to step 7. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 7 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 9. |
| Step 9 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

12y errors

12y error messages

Note: If the following error codes appear, then make sure to perform the Reset Engine Service Error first. See [“Reset Engine Service Error” on page 353](#).

- 121
- 121.01
- 121.04
- 121.05
- 121.15
- 121.32
- 121.45
- 121.5
- 121.53
- 121.57
- 121.59
- 121.7
- 121.71
- 121.73
- 121.74

| Error code | Description | Action |
|------------|-------------------------------------|---|
| 120.80 | Motor (fuser) rotation failure. | See “Motor (fuser) failure service check” on page 237 . |
| 120.82 | Motor (fuser) rotation abnormality. | |

| Error code | Description | Action |
|------------|--|--|
| 121.43 | Fuser roller pressure did not retract. | See “Fuser roller failure service check” on page 244. |
| 121.44 | | |
| 121.45 | Motor (fuser) roller rotation failure. | See “Motor (fuser) roller failure service check” on page 239. |
| 125.01 | CMY retract abnormal detection. | See “CMY retract unable to return home failure service check” on page 241. |
| 125.02 | | |
| 125.03 | | |
| 125.04 | | |
| 125.05 | | |
| 129.00 | K toner to carrier ratio abnormally low. | See “K developer toner density failure service check” on page 256. |
| 129.01 | K toner to carrier ratio abnormally high. | |
| 129.04 | K developer toner to carrier ratio adjustment error. | |
| 129.10 | C toner to carrier ratio abnormally low. | See “C developer toner density failure service check” on page 246. |
| 129.11 | C toner to carrier ratio abnormally high. | |
| 129.14 | C developer toner to carrier ratio adjustment error. | |
| 129.20 | M toner to carrier ratio abnormally low. | See “M developer toner density failure service check” on page 249. |
| 129.21 | M toner to carrier ratio abnormally high. | |
| 129.24 | M developer toner to carrier ratio adjustment error. | |
| 129.30 | Y toner to carrier ratio abnormally low. | See “Y developer toner density failure service check” on page 253. |
| 129.31 | Y toner to carrier ratio abnormally high. | |
| 129.34 | Y developer toner to carrier ratio adjustment error. | |

Motor (fuser) failure service check

| Action | Yes | No |
|--|---------------|---------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (fuser), open the front door or right door, and then touch Start . c Wait until the Cancel button is replaced with the OK button, and then touch OK . d Close the front door or right door. Does the motor run? | Go to step 5. | Go to step 2. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 2 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the motor. See “Motor (fuser) removal” on page 629 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the following for proper installation and damage: <ul style="list-style-type: none"> • Fuser drive gearbox • Fuser knob • Fuser transport primary gear • Fuser transport secondary gear • Fuser pressure secondary gear Are the parts properly installed and free of damage? | Go to step 8. | The problem is solved. |
| Step 8 Replace the damaged parts. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 <ol style="list-style-type: none"> Reseat all cable connectors on the engine board. Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 10. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 10 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 11. |
| Step 11 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Motor (fuser) roller failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (fuser), open the front door or right door, and then touch Start . c Wait until the Cancel button is replaced with the OK button, and then touch OK . d Close the front door or right door. Does the motor run? | Go to step 5. | Go to step 2. |
| Step 2 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the motor. See “Motor (fuser) removal” on page 629 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Reseat the fuser cable connector on both ends. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Go to step 8. | Go to step 7. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 7 Replace the fuser. See “Fuser removal” on page 441 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the following for proper installation and damage: <ul style="list-style-type: none"> • Fuser drive gearbox • Fuser knob • Fuser transport primary gear • Fuser transport secondary gear • Fuser pressure secondary gear Are the parts properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the damaged parts. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the fuser drive lever for proper installation and damage. Is the fuser drive lever properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the fuser drive lever. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 14. |
| Step 14 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

CMY retract unable to return home failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (fuser), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 5. | Go to step 2. |
| Step 2 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the motor. See “Motor (fuser) removal” on page 629 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (CMY retract). Does the sensor status change while toggling the sensor? | Go to step 8. | Go to step 6. |
| Step 6 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Replace the sensor (CMY retract). Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 8 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (CMY retract), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 12. | Go to step 9. |
| Step 9 Reseat the CMY retract clutch cable. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the CMY retract clutch for proper installation and damage. Is the clutch properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the CMY retract clutch. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check gearbox for proper installation and damage. Is the fuser drive gearbox properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace fuser drive gearbox. See “Fuser drive gearbox removal” on page 640 . Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the following components for proper installation and damage: <ul style="list-style-type: none"> • Fuser drive gearbox • Fuser knob • Fuser transport primary gear • Fuser transport secondary gear • Fuser pressure secondary gear Are the parts properly installed and free of damage? | Go to step 16. | Go to step 15. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 15 Replace the damaged parts. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 a Reseat all cable connectors on the expansion controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Check the expansion controller board for proper installation and damage. Is the board free of damage? | Go to step 19. | Go to step 18. |
| Step 18 Replace the expansion controller board. See “Expansion controller board removal” on page 607. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 21. |
| Step 21 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Fuser roller failure service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (fuser pressure), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 5. | Go to step 2. |
| Step 2 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the motor. See “Motor (fuser pressure) removal” on page 628 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (fuser pressure home). Take note of the status of the sensor. d Navigate to Printer diagnostics & adjustments > Motor tests . e Find the motor (fuser pressure) or motor (fuser pressure release), open the front or right door of the printer, and then touch Start . f Navigate to Printer diagnostics & adjustments > Sensor tests , and then check the status of the sensor (fuser pressure home). Did the sensor status change? | Go to step 9. | Go to step 6. |
| Step 6 Reseat the fuser cable connector on both ends. Does the problem remain? | Go to step 7. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 7 Check the fuser for proper installation and damage. Is the fuser properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Replace the fuser. See “Fuser removal” on page 441. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the following components for proper installation and damage: <ul style="list-style-type: none"> • Fuser drive gearbox • Fuser knob • Fuser transport primary gear • Fuser transport secondary gear • Fuser pressure secondary gear Are the parts properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the damaged parts. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 <ol style="list-style-type: none"> Reseat all cable connectors on the engine board. Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 13. |
| Step 13 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

C developer toner density failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check if the toner cartridge (C) is empty. Is the toner cartridge empty? | Go to step 3. | Go to step 2. |
| Step 2 a Clear the toner cartridge chip of contamination. b Make sure that the toner cartridge tip is properly aligned with the toner cartridge contacts. c Make sure that the toner cartridge bottle can rotate. d Check the toner cartridge for proper installation and damage. Is the toner cartridge properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the toner cartridge (C). Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (developer), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 8. | Go to step 5. |
| Step 5 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the motor (developer). See “Motor (developer) removal” on page 631 . Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 8 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Imaging process adjustment > Manual toner add b Touch Start beside cyan. c Check if the cyan toner supply shaft and toner cartridge turn. Did the the toner supply shaft and toner cartridge turn? | Go to step 12. | Go to step 9. |
| Step 9 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the motor. See “Motor (C toner supply) removal” on page 635. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Clean the developer (C) contacts. b Reseat the developer cable connectors on both ends. c Reseat the developer. d Check the developer for proper installation and damage. Is the developer (C) properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the developer. See “Developer unit (C) removal” on page 575. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the toner agitator for proper installation and damage. Is the toner agitator properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the toner agitator. See “Toner agitator removal” on page 592. Does the problem remain? | Go to step 16. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 16 Check the sensor (toner empty) cable for proper connection and damage. Is the sensor cable properly connected and free of damage? | Go to step 19. | Go to step 17. |
| Step 17 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Replace the sensor. See “Sensor (toner empty) removal” on page 577. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 Check the toner cartridge drive for proper installation and damage. Is the toner cartridge drive properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Replace the toner cartridge drive. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 24. | Go to step 23. |
| Step 23 Replace the image controller board. See “Image controller board removal” on page 571. Does the problem remain? | Go to step 24. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 24 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 25. | The problem is solved. |
| Step 25 Check the engine board for proper installation and damage. Is the board free of damage? | Contact the next level of support. | The problem is solved. |
| Step 26 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

M developer toner density failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check if the toner cartridge (M) is empty. Is the toner cartridge empty? | Go to step 3. | Go to step 2. |
| Step 2 a Clear the toner cartridge chip of contamination. b Make sure that the toner cartridge tip is properly aligned with the toner cartridge contacts. c Make sure that the toner cartridge bottle can rotate. d Check the toner cartridge for proper installation and damage. Is the toner cartridge properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the toner cartridge (M). Does the problem remain? | Go to step 4. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (developer), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 8. | Go to step 5. |
| Step 5 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the motor (developer). See “Motor (developer) removal” on page 631 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Imaging process adjustment > Manual toner add b Touch Start beside Magenta. c Check if the magenta toner supply shaft and toner cartridge turn. Did the the toner supply shaft and toner cartridge turn? | Go to step 12. | Go to step 9. |
| Step 9 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 12. | Go to step 11. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 11 Replace the motor. See “Motor (M toner supply) removal” on page 636. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Clean the developer (M) contacts. b Reseat the developer cable connectors on both ends. c Reseat the developer. d Check the developer for proper installation and damage. Is the developer (M) properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the developer. See “Developer unit (M) removal” on page 574. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the toner agitator for proper installation and damage. Is the toner agitator properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the toner agitator. See “Toner agitator removal” on page 592. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the sensor (toner empty) cable for proper connection and damage. Is the sensor cable properly connected and free of damage? | Go to step 19. | Go to step 17. |
| Step 17 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Replace the sensor. See “Sensor (toner empty) removal” on page 577. Does the problem remain? | Go to step 19. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 19 Check the toner cartridge drive for proper installation and damage. Is the toner cartridge drive properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Replace the toner cartridge drive. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 24. | Go to step 23. |
| Step 23 Replace the image controller board. See “Image controller board removal” on page 571. Does the problem remain? | Go to step 24. | The problem is solved. |
| Step 24 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 25. | The problem is solved. |
| Step 25 Check the engine board for proper installation and damage. Is the board free of damage? | Contact the next level of support. | The problem is solved. |
| Step 26 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Y developer toner density failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check if the toner cartridge (Y) is empty. Is the toner cartridge empty? | Go to step 3. | Go to step 2. |
| Step 2 a Clear the toner cartridge chip of contamination. b Make sure that the toner cartridge tip is properly aligned with the toner cartridge contacts. c Make sure that the toner cartridge bottle can rotate. d Check the toner cartridge for proper installation and damage. Is the toner cartridge properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the toner cartridge (Y). Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (developer), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 8. | Go to step 5. |
| Step 5 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the motor (developer). See “Motor (developer) removal” on page 631 . Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 8 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Imaging process adjustment > Manual toner add b Touch Start beside yellow. c Check if the yellow toner supply shaft and toner cartridge turn. Did the toner supply shaft and toner cartridge turn? | Go to step 12. | Go to step 9. |
| Step 9 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the motor. See “Motor (Y toner supply) removal” on page 637. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Clean the developer (Y) contacts. b Reseat the developer cable connectors on both ends. c Reseat the developer. d Check the developer for proper installation and damage. Is the developer (Y) properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the developer. See “Developer unit (Y) removal” on page 573. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the toner agitator for proper installation and damage. Is the toner agitator properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the toner agitator. See “Toner agitator removal” on page 592. Does the problem remain? | Go to step 16. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 16 Check the sensor (toner empty) cable for proper connection and damage. Is the sensor cable properly connected and free of damage? | Go to step 19. | Go to step 17. |
| Step 17 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Replace the sensor. See “Sensor (toner empty) removal” on page 577. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 Check the toner cartridge drive for proper installation and damage. Is the toner cartridge drive properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Replace the toner cartridge drive. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 24. | Go to step 23. |
| Step 23 Replace the image controller board. See “Image controller board removal” on page 571. Does the problem remain? | Go to step 24. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 24 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 25. | The problem is solved. |
| Step 25 Check the engine board for proper installation and damage. Is the board free of damage? | Contact the next level of support. | The problem is solved. |
| Step 26 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

K developer toner density failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check if the toner cartridge (K) is empty. Is the toner cartridge empty? | Go to step 3. | Go to step 2. |
| Step 2 a Clear the toner cartridge chip of contamination. b Make sure that the toner cartridge tip is properly aligned with the toner cartridge contacts. c Make sure that the toner cartridge bottle can rotate. d Check the toner cartridge for proper installation and damage. Is the toner cartridge properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the toner cartridge (K). Does the problem remain? | Go to step 4. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 4 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (developer), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 8. | Go to step 5. |
| Step 5 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the motor (developer). See “Motor (developer) removal” on page 631 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Imaging process adjustment > Manual toner add b Touch Start beside Black. c Check if the black toner cartridge and motor (K toner supply) turns. Did the toner supply shaft and toner cartridge turn? | Go to step 12. | Go to step 9. |
| Step 9 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 12. | Go to step 11. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 11 Replace the motor. See “Motor (K toner supply) removal” on page 597. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 a Clean the developer (K) contacts. b Reseat the developer cable connectors on both ends. c Reseat the developer. d Check the developer for proper installation and damage. Is the developer (K) properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the developer. See “Developer unit (K) removal” on page 576. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the toner agitator for proper installation and damage. Is the toner agitator properly installed and free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the toner agitator. See “Toner agitator removal” on page 592. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the sensor (toner empty) cable for proper connection and damage. Is the sensor cable properly connected and free of damage? | Go to step 19. | Go to step 17. |
| Step 17 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Replace the sensor. See “Sensor (toner empty) removal” on page 577. Does the problem remain? | Go to step 19. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 19 Check the toner cartridge drive for proper installation and damage. Is the toner cartridge drive properly installed and free of damage? | Go to step 21. | Go to step 20. |
| Step 20 Replace the toner cartridge drive. Does the problem remain? | Go to step 21. | The problem is solved. |
| Step 21 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 24. | Go to step 23. |
| Step 23 Replace the image controller board. See “Image controller board removal” on page 571. Does the problem remain? | Go to step 24. | The problem is solved. |
| Step 24 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 25. | The problem is solved. |
| Step 25 Check the engine board for proper installation and damage. Is the board free of damage? | Contact the next level of support. | The problem is solved. |
| Step 26 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

13y errors

137 error messages

| Error code | Description | Action |
|------------|---|--|
| 137.83 | Motor (developer) failure to turn. | See “Motor (developer) failure service check” on page 260. |
| 137.82 | Motor (developer) rotation abnormality. | |

Motor (developer) failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (developer), open the front door or right door, and then touch Start . c Wait until the Cancel button is replaced with the OK button, and then touch OK . d Close the front door or right door. Does the motor run? | Go to step 5. | Go to step 2. |
| Step 2 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the motor. See “Motor (developer) removal” on page 631. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Reseat all cable connectors on the LVPS. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 7. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 7 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 8. |
| Step 8 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

14y errors

142 error messages

| Error code | Description | Action |
|------------|---|--|
| 142.83 | Motor (photoconductor) failure to turn. | See “Motor (photoconductor) failure service check” on page 261 . |
| 142.82 | Motor (photoconductor) failure to turn. | |

Motor (photoconductor) failure service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (photoconductor), open the front door or right door, and then touch Start . c Wait until the Cancel button is replaced with the OK button, and then touch OK . d Close the front door or right door. Does the motor run? | Go to step 5. | Go to step 2. |
| Step 2 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 5. | Go to step 4. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 4 Replace the motor. See “Motor (photoconductor) removal” on page 632. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Reseat all cable connectors on the LVPS. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 8. |
| Step 8 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

15y errors

153 error messages

| Error code | Description | Action |
|------------|---|--|
| 153.83 | Motor (transport) rotation abnormality. | See “Motor (transport) failure service check” on page 263. |
| 153.80 | Motor (transport) rotation failure. | |

Motor (transport) failure service check

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (transport), open the front door or right door, and then touch Start . c Wait until the Cancel button is replaced with the OK button, and then touch OK . d Close the front door or right door. Does the motor run? | Go to step 5. | Go to step 2. |
| Step 2 Reseat the motor cable connector on both ends. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the motor for proper installation and damage. Is the motor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the motor. See “Motor (transport) removal” on page 631 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the main drive assembly for proper installation and damage. Is the main drive assembly properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the main drive assembly. See “Main drive assembly removal” on page 654 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 9. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 9 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

16y errors

16y error messages

| Error code | Description | Action |
|------------|--|--|
| 163.83 | The tray 3 (2 x 500-sheet tray) feed drive failed. | See “2 x 500-sheet tray 3 feed failure service check” on page 265 . |
| 163.83 | The tray 3 (2500-sheet tray) feed drive failed. | See “2500-sheet tray feed failure service check” on page 266 . |
| 164.83 | The tray 4 (2 x 500-sheet tray) feed drive failed. | See “2 x 500-sheet tray 4 feed failure service check” on page 267 . |
| 166.73 | The tray 2 lift plate did not move to the correct position. | See “Tray 2 lift plate failure service check” on page 268 . |
| 167.73 | The tray 3 (2 x 500-sheet tray) lift plate did not move to the correct position. | See “2 x 500-sheet tray 3 lift plate failure service check” on page 269 . |
| 167.73 | The tray 3 (2500-sheet tray) lift plate did not move to the correct position. | See “2500-sheet tray lift plate failure service check” on page 271 . |
| 167.83 | The tray 3 (2 x 500-sheet tray) transport drive failed. | See “2 x 500-sheet tray 3 transport failure service check” on page 273 . |
| 167.83 | The 2500-sheet tray transfer guide did not move to the correct position. | See “2500-sheet tray transfer guide motor failure service check” on page 274 . |
| 168.73 | The tray 4 (2 x 500-sheet tray) lift plate did not move to the correct position. | See “2 x 500-sheet tray 4 lift plate failure service check” on page 277 . |
| 168.83 | The tray 4 (2 x 500-sheet tray) transport drive failed. | See “2 x 500-sheet tray 4 transport failure service check” on page 279 . |
| 169.73 | The 3000-sheet tray elevator did not move to the correct position. | See “3000-sheet tray elevator failure service check” on page 280 . |

2 x 500-sheet tray 3 feed failure service check

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 1 Check the following tray 3 components for misalignment, wear, and damage: <ul style="list-style-type: none"> • 2 x 500-sheet tray feed and transport motor belt • 2 x 500-sheet tray feed and transport primary gear • 2 x 500-sheet tray feed and transport secondary gear Are the belt and gears properly installed and free of wear and damage? | Go to step 3. | Go to step 2. |
| Step 2 Reinstall or replace the affected components. See “2 x 500-sheet tray 3 transport belts and gears removal” on page 926. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the following tray 3 rollers for damage: Note: If the page count is over 50K, then clean the rollers. <ul style="list-style-type: none"> • Feed roller • Pick roller • Separator roller Are the rollers free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the damaged rollers. See “2 x 500-sheet tray rollers removal” on page 910. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the motor (2 x 500-sheet tray 3 feed). See “2 x 500-sheet tray feed and transport motors removal” on page 917. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the 2 x 500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 7. |
| Step 7 Replace the controller board. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

2500-sheet tray feed failure service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 Check the following tray 3 components for misalignment, wear, and damage: <ul style="list-style-type: none"> • 2500-sheet tray feed and transport motor belt • 2500-sheet tray feed and transport primary gear • 2500-sheet tray feed and transport secondary gear Are the belt and gears properly installed and free of wear and damage? | Go to step 3. | Go to step 2. |
| Step 2 Reinstall or replace the affected components. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the following 2500-sheet tray rollers for damage: Note: If the page count is over 50K, then clean the rollers. <ul style="list-style-type: none"> • Feed roller • Pick roller • Separator roller Are the rollers free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the damaged rollers. See “2500-sheet tray paper feed assembly removal” on page 898 and “2500-sheet tray pick assembly removal” on page 901 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Reinstall or replace the motor (2500-sheet tray feed). See “Motor (2500-sheet tray feed) removal” on page 896 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the 2500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 7. |
| Step 7 Replace the controller board. See “2500-sheet tray controller board removal” on page 878 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

2 x 500-sheet tray 4 feed failure service check

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 1 Check the following tray 4 components for misalignment, wear, and damage: <ul style="list-style-type: none"> • 2 x 500-sheet tray feed and transport motor belt • 2 x 500-sheet tray feed and transport primary gear • 2 x 500-sheet tray feed and transport secondary gear Are the belt and gears properly installed and free of wear and damage? | Go to step 3. | Go to step 2. |
| Step 2 Reinstall or replace the affected components. See “2 x 500-sheet tray 4 transport belts and gears removal” on page 927. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the following tray 4 rollers for damage: Note: If the page count is over 50K, then clean the rollers. <ul style="list-style-type: none"> • Feed roller • Pick roller • Separator roller Are the rollers free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the damaged rollers. See “2 x 500-sheet tray rollers removal” on page 910. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the motor (2 x 500-sheet tray 4 feed). See “2 x 500-sheet tray feed and transport motors removal” on page 917. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the 2 x 500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 7. |
| Step 7 Replace the controller board. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Tray 2 lift plate failure service check

Note: Before performing this check, make sure to remove the tray insert, and then clear the paper path of any debris.

| Action | Yes | No |
|--|----------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests > Tray 2 lift b Touch Start . Does the motor run? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Reinstall or replace the motor. See “Motor (tray 2 lift) removal” on page 646 . Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the continuity of the motor cable. Does the cable have continuity? | Go to step 6. | Go to step 5. |
| Step 5 Replace the tray 2 feed cable. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the tray 2 set actuator for misalignment and damage. Is the actuator properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Reinstall or replace the actuator. See “Tray 2 tray set actuator removal” on page 736 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Sensor tests b Find the sensor (Tray 2 lift plate limit). Does the sensor status change while toggling the sensor? | Go to step 13. | Go to step 9. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 9 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Reinstall or replace the sensor. See “Sensor (tray 2 lift plate level) removal” on page 691. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 13. | Go to step 12. |
| Step 12 Replace the paper feed sensor cable. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the engine board and its pins for damage. Are the engine board and pins free of damage? | Contact the next level of support. | Go to step 14. |
| Step 14 Replace the engine board. Does the problem remain? | Contact the next level of support. | The problem is solved. |

2 x 500-sheet tray 3 lift plate failure service check

Note: Before performing this check, make sure to remove the tray insert, and then clear the paper path of any debris.

| Action | Yes | No |
|--|---------------|---------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray motor tests > Tray 3 lift b Touch Start . Does the motor run? | Go to step 3. | Go to step 2. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 2 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Reinstall or replace the motor. See “Motor (2 x 500-sheet tray lift) removal” on page 914. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the continuity of the motor cable. Does the cable have continuity? | Go to step 6. | Go to step 5. |
| Step 5 Replace the 2 x 500-sheet tray 3 lift motor cable. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the tray 3 set actuator for misalignment and damage. Is the actuator properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Reinstall or replace the actuator. See “2 x 500-sheet tray tray set actuator removal” on page 924. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray sensor tests b Find the sensor (Tray 3 lift plate limit). Does the sensor status change while toggling the sensor? | Go to step 13. | Go to step 9. |
| Step 9 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 11. | Go to step 10. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 10 Reinstall or replace the sensor. See “2 x 500-sheet tray transport assembly sensors removal” on page 923. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 13. | Go to step 12. |
| Step 12 Replace the 2 x 500-sheet tray 3 pick assembly sensor cable. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the 2 x 500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 14. |
| Step 14 Replace the controller board. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

2500-sheet tray lift plate failure service check

Note: Before performing this check, make sure to remove the tray insert, and then clear the paper path of any debris.

| Action | Yes | No |
|--|---------------|---------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2500-sheet tray motor tests > Elevator up or Elevator down b Touch Start . Note: Remove tray 1 and tray 2 to observe the motor properly. Does the motor run? | Go to step 6. | Go to step 2. |
| Step 2 Reseat the motor cables, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 4. | Go to step 3. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 3 Reinstall or replace the motor. See “Motor (2500-sheet tray elevator) removal” on page 895 . Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the continuity of the motor cable. Does the cable have continuity? | Go to step 6. | Go to step 5. |
| Step 5 Replace the 2500-sheet tray cable harness. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the main tray elevator coupling and main tray elevator gear for wear and damage. Are the coupling and gear free of wear and damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the damaged coupling or gear. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2500-sheet tray sensor tests b Find the sensor (Main tray elevator limit) and sensor (Tray elevator home). Do the sensor statuses change while toggling the sensors? | Go to step 13. | Go to step 9. |
| Step 9 a Reseat the cable of the affected sensor, and then clear the sensor of debris and dust. b Remove the tray insert, and then check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Reinstall or replace the affected sensor. See “Sensor (2500-sheet tray main tray elevator limit) removal” on page 891 and “Sensor (2500-sheet tray elevator home) removal” on page 882 . Does the problem remain? | Go to step 11. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 11 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 13. | Go to step 12. |
| Step 12 Replace the 2500-sheet tray pick assembly sensor cable. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the 2500-sheet tray elevator home sensor actuator for misalignment and damage. Is the actuator properly installed and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Reinstall or replace the sensor actuator. See “2500-sheet tray elevator home sensor actuator removal” on page 881. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 a Reseat all cables on the 2500-sheet tray controller board. b If applicable, reseat the junction connectors on the cables. c Make sure that the cables do not interfere with moving parts. Does the problem remain? | Contact the next level of support. | The problem is solved. |

2 x 500-sheet tray 3 transport failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the following tray 3 components for misalignment, wear, and damage: <ul style="list-style-type: none"> • 2 x 500-sheet tray feed and transport motor belt • 2 x 500-sheet tray feed and transport primary gear • 2 x 500-sheet tray feed and transport secondary gear Are the belt and gears properly installed and free of wear and damage? | Go to step 3. | Go to step 2. |
| Step 2 Reinstall or replace the affected components. See “2 x 500-sheet tray 3 transport belts and gears removal” on page 926. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 3 Check the tray 3 transport roller for wear and damage. Are the rollers free of wear and damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the roller. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the motor (2 x 500-sheet tray 3 transport). See “2 x 500-sheet tray feed and transport motors removal” on page 917. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the 2 x 500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 7. |
| Step 7 Replace the controller board. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

2500-sheet tray transfer guide motor failure service check

| Action | Yes | No |
|--|---------------|---------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2500-sheet tray motor tests > Transfer guide home or Transfer guide away b Touch Start . Note: Remove tray 1 and tray 2 to observe the motor properly. Does the motor run? | Go to step 6. | Go to step 2. |
| Step 2 Reseat the motor cables, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 4. | Go to step 3. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 3 Reinstall or replace the motor. See “Motor (2500-sheet tray transfer guide) removal” on page 897. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the continuity of the motor cable. Does the cable have continuity? | Go to step 6. | Go to step 5. |
| Step 5 Replace the 2500-sheet tray cable harness. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the following 2500-sheet tray components for misalignment, wear, and damage: <ul style="list-style-type: none"> • Transfer guide primary gear • Transfer guide secondary gear • Transfer guide belt Are the components properly installed and free of wear and damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the affected components. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2500-sheet tray sensor tests b Find the sensor (Tray transfer guide home) and sensor (Tray paper stack transfer). Do the sensor statuses change while toggling the sensors? | Go to step 13. | Go to step 9. |
| Step 9 a Reseat the cable of the affected sensor, and then clear the sensor of debris and dust. b Remove the tray insert, and then check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 11. | Go to step 10. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 10 Reinstall or replace the affected sensor. See “Sensor (2500-sheet tray transfer guide home) removal” on page 886 and “Sensor (2500-sheet paper stack transfer) removal” on page 888 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 13. | Go to step 12. |
| Step 12 Replace the 2500-sheet tray insert sensor cable. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the following sensor actuators for misalignment and damage: <ul style="list-style-type: none"> • Paper stack transfer sensor actuator • Reserve tray paper limit sensor actuator Are the actuators properly installed and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Reinstall or replace the affected sensor actuator. See “2500-sheet reserve tray paper limit sensor actuator removal” on page 889 . Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 <ol style="list-style-type: none"> Reseat all cables on the 2500-sheet tray controller board. If applicable, reseat the junction connectors on the cables. Make sure that the cables do not interfere with moving parts. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the 2500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 17. |
| Step 17 Replace the controller board. See “2500-sheet tray controller board removal” on page 878 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

2 x 500-sheet tray 4 lift plate failure service check

Note: Before performing this check, make sure to remove the tray insert, and then clear the paper path of any debris.

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray motor tests > Tray 4 lift b Touch Start . Does the motor run? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Reinstall or replace the motor. See “Motor (2 x 500-sheet tray lift) removal” on page 914 . Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the continuity of the motor cable. Does the cable have continuity? | Go to step 6. | Go to step 5. |
| Step 5 Replace the 2 x 500-sheet tray 4 lift motor cable. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the tray 4 set actuator for misalignment and damage. Is the actuator properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Reinstall or replace the actuator. See “2 x 500-sheet tray tray set actuator removal” on page 924 . Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 8 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 2 x 500-sheet tray sensor tests b Find the sensor (Tray 4 lift plate limit). Does the sensor status change while toggling the sensor? | Go to step 13. | Go to step 9. |
| Step 9 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Reinstall or replace the sensor. See “2 x 500-sheet tray transport assembly sensors removal” on page 923. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the continuity of the sensor cable. Does the cable have continuity? | Go to step 13. | Go to step 12. |
| Step 12 Replace the 2 x 500-sheet tray 4 pick assembly sensor cable. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the 2 x 500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 14. |
| Step 14 Replace the controller board. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

2 x 500-sheet tray 4 transport failure service check

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 1 Check the following tray 4 components for misalignment, wear, and damage: <ul style="list-style-type: none"> • 2 x 500-sheet tray feed and transport motor belt • 2 x 500-sheet tray feed and transport primary gear • 2 x 500-sheet tray feed and transport secondary gear Are the belt and gears properly installed and free of wear and damage? | Go to step 3. | Go to step 2. |
| Step 2 Reinstall or replace the affected components. See “2 x 500-sheet tray 4 transport belts and gears removal” on page 927. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the tray 4 transport roller for wear and damage. Are the rollers free of wear and damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the roller. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the motor (2 x 500-sheet tray 4 transport). See “2 x 500-sheet tray feed and transport motors removal” on page 917. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the 2 x 500-sheet tray controller board and its pins for damage. Are the controller board and pins free of damage? | Contact the next level of support. | Go to step 7. |
| Step 7 Replace the controller board. See “2 x 500-sheet tray controller board removal” on page 918. Does the problem remain? | Contact the next level of support. | The problem is solved. |

3000-sheet tray elevator failure service check

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 1 a Make sure that the 3000-sheet tray is properly installed to the printer. b Reseat the interface cable that is plugged into the 2500- or 2 x 500-sheet tray, and then reset the printer. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > 3000-sheet tray motor tests > Tray elevator b Touch Start . Does the motor run? | Go to step 5. | Go to step 3. |
| Step 3 a Reseat the cable CN3 on the 3000-sheet tray controller board. b Reseat the motor cable, and then check the motor for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Reinstall or replace the motor. See “Motor (3000-sheet tray elevator) removal” on page 946 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Reseat all the cables on the 3000-sheet controller board. b If applicable, reseat the junction connectors on the cables. c Make sure that the cables do not interfere with moving parts. Does the problem remain? | Contact the next level of support. | The problem is solved. |

17y errors

17y error messages

| Error code | Description | Action |
|------------|---|---|
| 170.73 | The tray 1 lift plate did not move to the correct position. | See “Tray 1 lift plate failure service check” on page 281 . |
| 171.82 | Paper exit fan rotation failure. | See “Paper exit fan failure service check” on page 282 . |

| Error code | Description | Action |
|------------|---|--|
| 172.82 | Main power supply fan rotation failure. | See “Main power supply fan failure service check” on page 285. |
| 173.83 | Toner cartridge cooling fan rotation failure. | See “Toner cartridge cooling fan failure service check” on page 283. |

Tray 1 lift plate failure service check

Note: Before performing this check, make sure to remove the tray insert, and then clear the paper path of any debris.

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (tray 1 lift), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 4. | Go to step 2. |
| Step 2 a Reseat the tray 1 lift motor cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Replace the motor (tray 1 lift). Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a Make sure that the tray set actuator is properly installed. b Check the actuator for damage, and replace if necessary. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the sensor (tray 1 lift plate level). Is it free of damage? | Go to step 6. | Go to step 8. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 6 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (tray 1 lift plate level). Does the sensor status change while toggling the sensor? | Go to step 9. | Go to step 7. |
| Step 7 a Reseat the tray 1 lift plate level sensor cable. b Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Replace the sensor (tray 1 lift plate level). Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the engine controller board pins for damage, and replace if necessary. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Paper exit fan failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the cable connection between the paper exit fan and engine board. Is the cable properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cable. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the paper exit fan for proper installation and damage. Is the fan properly installed and free of damage? | Go to step 6. | Go to step 5. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 5 Replace the paper exit fan. See “Paper exit fan removal” on page 639 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 8. |
| Step 8 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Toner cartridge cooling fan failure service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the cable connection between the transfer belt fan and engine board. Is the cable properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cable. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Make sure that there is no obstruction between the fan blades. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 5 Check the transfer belt fan for proper installation and damage. Is the fan properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the transfer belt fan. See “Transfer belt fan and duct removal” on page 594. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Reseat all cable connectors on the expansion controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the expansion controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the expansion controller board. See “Expansion controller board removal” on page 607. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 12. |
| Step 12 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Main power supply fan failure service check

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 1 Check the cable connection between the main power supply fan and engine board. Is the cable properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cable. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the main power supply fan for proper installation and damage. Is the fan properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the main power supply fan. See “Main power supply fan removal” on page 420 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 8. |
| Step 8 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

18y errors

18y error messages

| Error code | Description | Action |
|------------|--|---|
| 180.83 | Fuser power supply fan rotation failure. | See “Fuser power supply fan failure service check” on page 286. |
| 181.83 | Fuser fan rotation failure. | See “Fuser fan failure service check” on page 288. |
| 182.83 | Toner suction fan rotation failure. | See “Toner suction fan failure service check” on page 287. |
| 183.83 | Transfer belt fan rotation failure. | See “Transfer belt fan failure service check” on page 289. |

Fuser power supply fan failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the cable connection between the fuser power supply fan and engine board. Is the cable properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cable. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the fuser power supply fan for proper installation and damage. Is the fan properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the fuser power supply fan. Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 6 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 8. |
| Step 8 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Toner suction fan failure service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the cable connection between the toner suction fan and engine board. Is the cable properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cable. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the toner suction fan for proper installation and damage. Is the fan properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the toner suction fan. Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 6 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 8. |
| Step 8 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Fuser fan failure service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the cable connection between the fuser fan and engine board. Is the cable properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cable. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the fuser fan for proper installation and damage. Is the fan properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the fuser fan. See “Toner cartridge cooling fan removal” on page 681 . Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 6 Check the expansion controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the expansion controller board. See “Expansion controller board removal” on page 607. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 10. |
| Step 10 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Transfer belt fan failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the cable connection between the power supply fan and engine board. Is the cable properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cable. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 4 Check the transfer belt fan for proper installation and damage. Is the fan properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the transfer belt fan. See “Transfer belt fan and duct removal” on page 594. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the expansion controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the expansion controller board. See “Expansion controller board removal” on page 607. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 10. |
| Step 10 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

6yy errors

6yy error messages

| Error code | Description | Action |
|------------------|---|---|
| 610.01 | The image was not ready during a print job from tray 1. | See “Unready image service check” on page 291. |
| 610.02 | The image was not ready during a print job from tray 2. | |
| 610.03 | The image was not ready during a print job from tray 3. | |
| 610.04 | The image was not ready during a print job from tray 4. | |
| 611.02 611.03 | The image was not ready during a print job to the finisher. | See “Unready image detected at the finisher service check” on page 293. |
| 680.10 | The ADF assembly was opened during a scan job. | See “ADF scanner open error service check” on page 292. |

Unready image service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Make sure that the Page description language (PDL) of the print job is supported. Install the supporting option card if necessary. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 1 > Single Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Make sure that the printhead and board cables are properly connected. b Check the cables for damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 5 a Make sure that the printhead is properly installed. b Check the printhead for damage, and replace if necessary. See “Printhead removal” on page 424. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF scanner open error service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Remove all obstructions between the ADF assembly and flatbed. b Check if the ADF assembly opens and closes properly. c Check if the flatbed and ADF are parallel with each other. Is the ADF assembly properly installed? | Go to step 3. | Go to step 2. |
| Step 2 Reinstall the ADF assembly. See “ADF assembly removal” on page 747. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF open). Does the sensor status change while toggling the sensor? | Go to step 6. | Go to step 4. |
| Step 4 a Reseat the sensor cable, and then clear the sensor of debris and dust. b Check the sensor for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 5. | The problem is solved. |
| Step 5 Reinstall or replace the sensor. See “Sensor (scanner cover switch) removal” on page 841. Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 6 Check the alignment between the sensor (scanner cover switch) and the sensor magnet. Are the sensor and its magnet aligned? | Go to step 8. | Go to step 7. |
| Step 7 Perform the ADF height adjustment. See “ADF height adjustment” on page 397 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the ADF left and right hinges for damage. Are the hinges free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the damaged components. See “ADF right hinge removal” on page 749 and “ADF left hinge removal” on page 750 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Reseat the scanner controller board cables. b Check the scanner controller board for damage. Is the board free of damage? | Contact the next level of support. | Go to step 11. |
| Step 11 Replace the board, and then reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Unready image detected at the finisher service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Reinstall the trays. b Make sure that paper is properly seated in the trays. c Make sure that the paper guides are properly set. d Make sure that the doors are properly closed. Does the problem remain? | Go to step 2. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 2 Check the front door for proper installation and damage, and replace if necessary. See “Front door removal” on page 541. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the front door switch for proper installation and damage, and replace if necessary. See “Door switch removal” on page 591. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the right door for proper installation and damage, and replace if necessary. See “Right door removal” on page 430. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the right door switch for proper installation and damage, and replace if necessary. See “Right door switch removal” on page 562. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Clear the sensor (registration) of contamination. b Reseat the sensor cable connectors on both ends. c Check the sensor for proper installation and damage, and replace if necessary. See “Sensor (registration) removal” on page 503. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests b Find the motor (polygon), open the front or right door of the printer, and then touch Start . c Wait for the test to complete, and then touch OK . d Close the door. Does the motor run? | Go to step 10. | Go to step 8. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 8 a Clean the printhead lens. b Reseat all printhead cable connectors on both ends. c Check the printhead for proper installation and damage. Is the printhead properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the printhead. See “Printhead removal” on page 424. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the image controller board. See “Image controller board removal” on page 571. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 15. |
| Step 15 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

80y errors

800–809 error messages

| Error code | Description | Action |
|------------|---|--|
| 800.04 | A clock error occurred during a scan job at the front side of the document. | See “Scanner CCD communication failure service check” on page 296. |
| 800.15 | The CIS clamp adjustment failed. | See “ADF CIS error service check” on page 297. |
| 800.16 | The CIS gain adjustment failed. | |
| 800.23 | A clock error occurred during a scan job at the back side of the document. | See “ADF CIS communication failure service check” on page 300. |
| 800.25 | The CCD power supply malfunctioned. | See “Scanner CCD power supply service check” on page 301. |
| 809.26 | A scanner sequence error occurred. | See “ADF scanner sequence error service check” on page 303. |

Scanner CCD communication failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the scanner CCD lens assembly cables for proper connection. Are the cables properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cables. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the scanner controller board cables for proper connection. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 At the back of the printer, check the DisplayPort cables on the engine controller board for proper connections. Are the cables properly connected? | Go to step 7. | Go to step 6. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 6 Reseat the cables. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Replace the scanner CCD cable. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the scanner CCD lens assembly for damage. Is the lens assembly free of damage? | Go to step 9. | The problem is solved. |
| Step 9 Replace the lens assembly, and then reset the printer. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the engine controller board for damage. Is the board free of damage? | Go to step 11. | The problem is solved. |
| Step 11 Replace the board. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF CIS error service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the CIS assembly and CIS power supply board for proper connections. Are the cables properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cables. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 3 Check the ADF controller board cables for proper connections. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 At the back of the printer, check the ADF assembly cables for proper connections. Are the cables properly connected? | Go to step 7. | Go to step 6. |
| Step 6 Reseat the cables. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 At the left side of the printer, check the main power supply cables for proper connections. Are the cables properly connected? | Go to step 9. | Go to step 8. |
| Step 8 Reseat the cables. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the following components for dirt and contamination: <ul style="list-style-type: none"> • CIS glass clean shaft • CIS glass Are the components free of dirt and contamination? | Go to step 11. | Go to step 10. |
| Step 10 Clean the affected components. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Replace the ADF CIS power supply board cable. See “ADF CIS power supply board cable removal” on page 771. Does the problem remain? | Go to step 12. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 12 Check the ADF CIS cable for damage. Is the cable free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the ADF CIS cable. See “ADF CIS cable removal” on page 772. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the CIS power supply board for damage. Is the board free of damage? | Go to step 16. | The problem is solved. |
| Step 15 Replace the board, and then reset the printer. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Check the ADF CIS assembly for damage. Is the CIS assembly free of damage? | Go to step 18. | Go to step 17. |
| Step 17 Replace the CIS assembly, and then reset the printer. See “ADF CIS assembly removal” on page 767. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Check the ADF controller board for damage. Is the board free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Replace the board, and then reset the printer. See “ADF controller board removal” on page 773. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 Check the main power supply for damage. Is the power supply free of damage? | Go to step 22. | Go to step 21. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 21 Replace the power supply, and then reset the printer. See “Main power supply removal” on page 423 . Does the problem remain? | Go to step 22. | The problem is solved. |
| Step 22 Check the engine controller board for damage. Is the board free of damage? | Go to step 24. | The problem is solved. |
| Step 23 Replace the board. Does the problem remain? | Go to step 24. | The problem is solved. |
| Step 24 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF CIS communication failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the CIS assembly cables for proper connections. Are the cables properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cables. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 At the back of the printer, check the DisplayPort cables on the engine controller board for proper connections. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the ADF CIS data cable. See “ADF CIS data cable removal” on page 775 . Does the problem remain? | Go to step 6. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 6 Check the ADF CIS assembly for damage. Is the CIS assembly free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the CIS assembly, and then reset the printer. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Reset the printer, and then check the engine controller board for damage. Is the board free of damage? | Go to step 10. | The problem is solved. |
| Step 9 Replace the board. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Scanner CCD power supply service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the scanner CCD lens assembly cables for proper connections. Are the cables properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cables. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the scanner controller board cables for proper connections. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 5 At the left side of the printer, check the main power supply cables for proper connections. Are the cables properly connected? | Go to step 7. | Go to step 6. |
| Step 6 Reseat the cables. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the CCD lens assembly for damage. Is the lens assembly free of damage? | Go to step 9. | The problem is solved. |
| Step 8 Replace the lens assembly, and then reset the printer. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the main power supply for damage. Is the power supply free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the power supply, and then reset the printer. See “Main power supply removal” on page 423 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Reset the printer, and then check the engine controller board for damage. Is the board free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the board. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF scanner sequence error service check

| Action | Yes | No |
|--|----------------|------------------------|
| Step 1 Check the ADF controller board cables for proper connections. Are the cables properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cables. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 At the back of the printer, check the DisplayPort cables on the engine controller board for proper connections. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Replace the ADF CIS data cable. See “ADF CIS data cable removal” on page 775 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the ADF CIS assembly for damage. Is the CIS assembly free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the CIS assembly, and then reset the printer. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Reset the printer, and then check the engine controller board for damage. Is the board free of damage? | Go to step 9. | The problem is solved. |
| Step 9 Replace the board. Does the problem remain? | Go to step 10. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 10 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

816–824 errors

816–824 error messages

| Error code | Description | Action |
|------------|--|--|
| 816.70 | The scanner CCD clamp or gain adjustment failed. | See “Scanner CCD error service check” on page 304. |
| 820.00 | A defective scanner lamp was detected. | See “Scanner lamp failure service check” on page 306. |
| 820.01 | An abnormal scanner lamp exposure was detected. | |
| 824.00 | The sensor (scanner lamp home) did not detect the scanner lamp at its home position. | See “Scanner carriage position failure service check” on page 308. |
| 824.01 | The scanner lamp did not leave its home position during a scan job. | |

Scanner CCD error service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the scanner CCD lens assembly cables for proper connections. Are the cables properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cables. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the scanner controller board cables for proper connections. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 5 At the back of the printer, check the DisplayPort cables on the engine controller board for proper connections. Are the cables properly connected? | Go to step 7. | Go to step 6. |
| Step 6 Reseat the cables. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Replace the scanner CCD cable. Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the following components for dirt and contamination. <ul style="list-style-type: none"> • ADF glass clean shaft • Scanner glass pad • Scanner CCD lens • Scanner mirrors Are the components free of dirt and contamination? | Go to step 10. | Go to step 9. |
| Step 9 Clean the affected components. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the scanner mirrors for misalignment and damage. Are the mirrors properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Reinstall or replace the affected mirrors. See “Scanner mirror 1 removal” on page 867 , “Scanner mirror 2 removal” on page 870 , or “Scanner mirror 3 removal” on page 872 . Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the scanner CCD lens assembly for damage. Is the lens assembly free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the lens assembly, and then reset the printer. Does the problem remain? | Go to step 14. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 14 Check the engine controller board for damage. Is the board free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the board. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Scanner lamp failure service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the scanner lamp cable for proper connection. Is the cable properly connected? | Go to step 3. | Go to step 2. |
| Step 2 Reseat the cable. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the scanner controller board cables for proper connections. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the scanner CCD lens assembly cables for proper connections. Are the cables properly connected? | Go to step 7. | Go to step 6. |
| Step 6 Reseat the cables. Does the problem remain? | Go to step 7. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 7 At the back of the printer, check the engine controller board cables for proper connections. Are the cables properly connected? | Go to step 9. | Go to step 8. |
| Step 8 Reseat the cables. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Replace the scanner lamp cable. See “Scanner lamp cable removal” on page 860. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the scanner lamp for damage. Is the scanner lamp free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the scanner lamp. See “Scanner lamp removal” on page 869. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the CCD lens assembly for damage. Is the lens assembly free of damage? | Go to step 14. | The problem is solved. |
| Step 13 Replace the lens assembly, and then reset the printer. See “ADF controller board removal” on page 773. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the scanner controller board for damage. Is the board free of damage? | Go to step 16. | Go to step 15. |
| Step 15 Replace the board, and then reset the printer. Does the problem remain? | Go to step 16. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 16 Check the engine controller board for damage. Is the board free of damage? | Go to step 18. | Go to step 17. |
| Step 17 Replace the board. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Scanner carriage position failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the scanner carriage belt and gear for misalignment. Are the belt and gear properly installed? | Go to step 3. | Go to step 2. |
| Step 2 a Reinstall the affected belt or gear. b Perform the scanner carriage belt adjustment. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the scanner carriage belt and gear for damage. Are the belt and gear free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the affected belt or gear. See “Scanner carriage gear removal” on page 863 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the sensor (scanner lamp home) cable for proper connection. Is the cable properly connected? | Go to step 7. | Go to step 6. |
| Step 6 Reseat the cable. Does the problem remain? | Go to step 7. | The problem is solved. |

| Action | Yes | No |
|---|----------------|------------------------|
| Step 7 Check the motor (scanner drive) and scanner controller board cables for proper connections. Are the cables properly connected? | Go to step 9. | Go to step 8. |
| Step 8 Reseat the cables. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 At the back of the printer, check the engine controller board cables for proper connections. Are the cables properly connected? | Go to step 11. | Go to step 10. |
| Step 10 Reseat the cables. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Replace the scanner drive motor cable. See “Scanner drive motor cable removal” on page 862. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the sensor (scanner lamp home) for misalignment and damage. Is the sensor properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the sensor. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Check the motor (scanner drive) for misalignment and damage. Is the motor properly installed and free of damage? | Go to step 16. | The problem is solved. |
| Step 15 Replace the motor. Does the problem remain? | Go to step 16. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 16 Check the scanner controller board for damage. Is the board free of damage? | Go to step 18. | Go to step 17. |
| Step 17 Replace the board, and then reset the printer. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Check the engine controller board for damage. Is the board free of damage? | Go to step 20. | Go to step 19. |
| Step 19 Replace the board. Does the problem remain? | Go to step 20. | The problem is solved. |
| Step 20 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

840–890 errors

840–890 error messages

| Error code | Description | Action |
|------------|---|--|
| 840.01 | Scanner disabled by the user. | See “ADF scanner disabled error service check” on page 311. |
| 840.02 | Scanner disabled automatically due to too many ADF hardware errors. | |
| 843.01 | ADF scanner mechanical failure. | See “ADF CIS glass clean service check” on page 315. |
| 850.00 | A defective CIS lamp was detected. | See “ADF CIS lamp failure service check” on page 312. |
| 850.01 | An abnormal CIS lamp exposure was detected. | |
| 890.00 | During initialization, the CIS clean roller did not leave the sensor (scanner lamp home). | See “ADF CIS glass clean roller position failure service check” on page 313. |
| 890.01 | After initialization, the CIS clean roller did not leave the sensor (scanner lamp home). | |

ADF scanner disabled error service check

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 1 From the Scanner disabled error screen, select Reboot and automatically enable scanner . Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a From the home screen, navigate to: Settings > Device > Maintenance > Configuration Menu > Scanner Configuration b Select Disable Scanner . Note: Ignore the Enabled prompt on the display. The scanner is still automatically disabled at the microcode level. c Select Disabled , and then reset or power cycle the printer. d Observe the behavior. No errors and messages should appear during start-up. e Navigate to: Settings > Device > Maintenance > Configuration Menu > Scanner Configuration > Disable Scanner . f Select Enabled , and then reset the printer again to complete the procedure and return the scanner to full operation. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the ADF controller board cables for proper connections. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the scanner controller board cables for proper connections. Are the cables properly connected? | Go to step 7. | Go to step 6. |
| Step 6 Reseat the cables. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF CIS lamp failure service check

| Action | Yes | No |
|---|----------------|------------------------|
| Step 1 Check the following components for dirt and contamination: <ul style="list-style-type: none"> • CIS glass clean shaft • CIS glass Are the components free of dirt and contamination? | Go to step 3. | Go to step 2. |
| Step 2 Clean the affected components. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the CIS assembly and CIS power supply board cables for proper connections. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 At the back of the printer, check the engine controller board cables for proper connections. Are the cables properly connected? | Go to step 7. | Go to step 6. |
| Step 6 Reseat the cables. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Replace the ADF CIS power supply board cable. See “ADF CIS power supply board cable removal” on page 771 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the CIS power supply board for damage. Is the board free of damage? | Go to step 10. | The problem is solved. |
| Step 9 Replace the board, and then reset the printer. Does the problem remain? | Go to step 10. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 10 Check the ADF CIS assembly for damage. Is the CIS assembly free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the CIS assembly, and then reset the printer. See “ADF CIS assembly removal” on page 767 . Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the engine controller board for damage. Is the board free of damage? | Go to step 14. | The problem is solved. |
| Step 13 Replace the board. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF CIS glass clean roller position failure service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Check the ADF CIS glass clean roller for dirt and obstructions. Is the clean roller free of dirt and obstructions? | Go to step 3. | Go to step 2. |
| Step 2 Clean the roller. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the motor (ADF CIS clean) and ADF controller board cables for proper connections. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 Reseat the cables. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 5 Check the sensor (ADF CIS clean) cable for proper connection. Is the cable properly connected? | Go to step 7. | Go to step 6. |
| Step 6 Reseat the cable. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the ADF CIS clean belt and sensor actuator for misalignment and damage. Are the belt and actuator properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Reinstall or replace the affected belt or actuator. See “ADF CIS clean belt removal” on page 778 or “ADF CIS clean sensor actuator removal” on page 779 . | Go to step 9. | The problem is solved. |
| Step 9 Replace the ADF CIS clean motor cable. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Replace the ADF CIS clean sensor cable. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the motor (ADF CIS clean) for damage. Is the motor free of damage? | Go to step 13. | Go to step 12. |
| Step 12 Replace the motor. Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the sensor (ADF CIS clean) for damage. Is the sensor free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the sensor. Does the problem remain? | Go to step 15. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 15 Check the ADF controller board for damage. Is the board free of damage? | Go to step 17. | The problem is solved. |
| Step 16 Replace the board. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Reset the printer. Does the problem remain? | Contact the next level of support. | The problem is solved. |

ADF CIS glass clean service check

| Actions | Yes | No |
|---|---------------|------------------------|
| Step 1 Enter the Diagnostics menu, and then navigate to: Event log > Display log Does the error log show persistent 283.x1 jam? | Go to step 2. | Go to step 3. |
| Step 2 Open the ADF, and then clear the sensor (ADF scan) of debris or dust within the sensor paper path. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests b Find the sensor (ADF scan). Does the sensor status change while toggling the sensor? | Go to step 6. | Go to step 4. |
| Step 4 a Reseat the sensor cable. b Check the sensor cable for damage, and replace if necessary. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the sensor (ADF scan) for damage, and replace if necessary. See “Sensor (ADF scan) removal” on page 757 . Does the problem remain? | Go to step 6. | The problem is solved. |

| Actions | Yes | No |
|---|----------------|------------------------|
| Step 6 Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Fed test Is the test successful? | Go to step 8. | Go to step 7. |
| Step 7 Observe the leading and trailing edge location of the paper along the paper path while performing a feed test. Does the leading edge of the paper reach the ADF scan glass area? | Go to step 12. | Go to step 8. |
| Step 8 Observe the motor (ADF scan) if it is working properly. Does the motor run? | Go to step 10. | Go to step 9. |
| Step 9 a Remove the ADF rear cover. b Reseat the ADF scan motor cable. c Check the motor cable for damage, and replace if necessary. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Make sure that the ADF scan motor belts have correct belt tension. b Check the motor gears and belts for wear or damage, and replace if necessary. Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 Check the ADF scan roller 1 for wear or damage, and replace if necessary. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Observe the motor (CIS glass clean) if it is working properly. Is the motor working properly? | Go to step 14. | Go to step 13. |
| Step 13 a Remove the ADF rear cover. b Reseat the CIS glass clean motor cable. c Check the motor cable for damage, and replace if necessary. Does the problem remain? | Go to step 14. | The problem is solved. |

| Actions | Yes | No |
|---|------------------------------------|------------------------|
| Step 14 a Make sure that the CIS glass clean belt has correct belt tension. b Check the CIS glass clean gear and belt for wear or damage, and replace if necessary. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 a Check the ADF glass clean roller and CIS glass clean roller for wear or damage, and replace if necessary. b Check the ADF glass clean gear and CIS glass clean gear for wear or damage, and replace if necessary. Does the problem remain? | Go to step 16. | The problem is solved. |
| Step 16 Make sure that the blue screws and marked screws along the paper path are tightened. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 a Make sure that the ADF scan cleaning assembly and ADF CIS scan cleaning assembly are properly installed b Make sure that the paper path is clear of debris or dust. c Check the assemblies for damage, and replace if necessary. Does the problem remain? | Go to step 18. | The problem is solved. |
| Step 18 Check the ADF controller board for damaged pins, and replace if necessary. See “ADF controller board removal” on page 773 . Note: Make sure to perform ADF scanner adjustment after replacing the ADF controller board. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 a Make sure that the ADF CIS cable is properly installed. b Check the cable for damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Procedure before starting the 9yy service checks

Retrieve certain information that helps your next level of support in diagnosing the problem before replacing the controller board.

Warning—Potential Damage: Do not replace the controller board unless instructed by your next level of support.

- 1 Collect the history information and firmware logs (Fwdebug and logs.tar.gz) from the SE menu.
- 2 Collect the settings from the Menu Settings Page.
- 3 Collect information from the user.

Note: Not all of the items are retrievable from the printer that you are working on.

A. Collecting the history information from the SE menu

Note: Make sure that your printer is connected to a network or to a print server.

- 1 Open a web browser, type **http://printer_IP_address/se**, and then press **Enter**.

Notes:

- **printer_IP_address** is the TCP/IP address of the printer.
- **se** is required to access the printer diagnostic information.

- 2 Click **History Information**, copy all information, and then save it as a text file.
- 3 E-mail the text file to your next level of support.

B. Collecting the firmware logs (Fwdebug and logs.tar.gz) from the SE menu

Notes:

- Make sure that your printer is connected to a network or to a print server.
- Some printers are designed to restart automatically after a 9yy error. On these printers, you can retrieve the secondary crash code information using the SE menu.

- 1 Open a web browser, type **http://printer_IP_address/se**, and then press **Enter**.
- 2 Click **Logs Gzip Compressed**.

Note: A logs.tar.gz file is saved to the Downloads folder. The file may take several minutes to save. You may rename the file if a logs.tar.gz already exists in the Downloads folder.

- 3 E-mail the logs to your next level of support.

Note: To download the FWdebug log to a flash drive, see [“General SE Menu” on page 376](#).

C. Collecting the settings from the Menu Settings Page

Note: The Menu Settings Page is different for each printer. For more information, see the *User's Guide*. Your next level of support will tell you which page they want to see.

Copying the Menu Settings Page from the Embedded Web Server (EWS)

Note: Make sure that your printer is connected to a network or to a print server.

- 1 Open a web browser, type **http://printer_IP_address**, and then press **Enter**.
- 2 Click Settings, and then select one of the settings pages from the links shown on the page.

3 Copy all the information, and then save it as a text file.

4 E-mail the text file to your next level of support.

Printing the Menu Settings Page

1 From the home screen, navigate to:

Reports > Menu Settings Page

2 Print the Menu Settings Page, and then use Scan to E-mail to send it to your next level of support.

D. Collecting information from the user

Ask the user for information about the following:

- Print job being run
- Operating system being used
- Print driver being used
- Other information on what was happening when the 9yy error occurred

900 errors

900 error messages

| Error code | Description | Action |
|------------|--|---|
| 900.xx | RIP firmware errors. | See “System software error service check” on page 319. |
| 900.xx | Option controller board error. | See “Option controller board failure service check” on page 324. |
| 940.01 | Engine sub-CPU communication error. | See “Communication error service check” on page 327. |
| 940.02 | Paper Feed conveying system board communication error. | |
| 940.03 | Engine extension board communication error. | |
| 940.04 | Engine communication error. | |
| 940.05 | Engine PF communication data error. | |
| 940.06 | Engine PF send time-out. | |
| 940.07 | Engine PF communication pulse error. | |
| 940.11 | Expansion controller board error. | See “Expansion controller board failure service check” on page 326. |
| 940.12 | Expansion controller board error. | |

System software error service check

Different types of 900.xx errors can occur. There may be a communication problem (bad cable, network connection, and software issues), or a hardware problem with the controller board or ISP (internal solutions port). Check the communication and software problems first. Determine if the problem is constant or intermittent. Use the following troubleshooting procedure to isolate the issue. Take notes as instructed. You will need that information in the event that you need to contact your next level of support.

Before troubleshooting:

- 1 Perform the [“Procedure before starting the 9yy service checks” on page 317](#).
- 2 Determine the operating system used when the error occurred. If possible, determine whether a PostScript or PCL file was sent to the printer when the error occurred. Ask the customer which Lexmark Solutions applications are installed on the printer.

| Action | Yes | No |
|---|----------------|------------------------|
| Step 1 Perform a POR. Does the error remain? | Go to step 2. | The problem is solved. |
| Step 2 a Write down the exact 900.xx error code that appears on the display. b Turn off the printer. c Clear the print queues. d Disconnect all communication cables, and then remove all memory options. e Remove any installed ISP. f Reset the printer into the Diagnostics menu. Does the problem remain? | Go to step 3. | Go to step 6. |
| Step 3 Check all the cables on the controller board for proper connection. Are the cables properly connected? | Go to step 5. | Go to step 4. |
| Step 4 a Reconnect the cables. b Reset the printer into the Diagnostics menu. Does the problem remain? | Go to step 5. | Go to step 6. |
| Step 5 a Replace the controller board. See “Controller board removal” on page 613 . b Reset the printer. Note: If a different error code displays, then go to the service check for that error code. Does the problem remain? | Go to step 31. | The problem is solved. |

| Action | Yes | No |
|---|----------------|----------------|
| Step 6 Print the following: <ul style="list-style-type: none"> • Error Log • Menu Settings Page • Network Settings Page Does the problem remain while printing these pages? | Go to step 31. | Go to step 7. |
| Step 7 Note: Before performing this step, write down the following information about the file being sent to the printer: <ul style="list-style-type: none"> • Application used • Operating system • Driver type • File type (PCL, PostScript, XPS, etc.) a Reattach the communications cable. b Reset the printer. c Perform a print job. Does the problem remain? | Go to step 8. | Go to step 10. |
| Step 8 a Reset the printer. b Perform a different print job. Does the problem remain? | Go to step 9. | Go to step 10. |
| Step 9 a Upgrade the firmware. Note: Contact your next level of support for the correct firmware level to use. b Reset the printer. c Perform a print job. Does the problem remain? | Go to step 31. | Go to step 10. |
| Step 10 Verify if the printer is an MFP. Is the printer an MFP? | Go to step 11. | Go to step 13. |
| Step 11 Perform a copy job. Does the problem remain? | Go to step 31. | Go to step 12. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 12 Perform a scan to PC job. Does the problem remain? | Go to step 31. | Go to step 13. |
| Step 13 Verify if an optional memory is installed. Is there an optional memory installed? | Go to step 14. | Go to step 16. |
| Step 14 a Reinstall the memory. b Perform a print job. Does the problem remain? | Go to step 15. | Go to step 16. |
| Step 15 a Install a Lexmark-recommended memory option. b Perform a print job. Does the problem remain? | Go to step 31. | The problem is solved. |
| Step 16 Verify if a modem is installed. Is a modem installed? | Go to step 17. | Go to step 21. |
| Step 17 a Reinstall the modem. b Reset the printer. Does the problem remain? | Go to step 18. | Go to step 20. |
| Step 18 a Upgrade the firmware if it was not upgraded in a previous step. Note: Contact your next level of support for the correct firmware level to use. b Reset the printer. c Perform a print job. Does the problem remain? | Go to step 19. | The problem is solved. |
| Step 19 a Replace the modem. b Reset the printer. Does the problem remain? | Go to step 31. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 20 Perform a fax job. Does the problem remain? | Go to step 31. | Go to step 21. |
| Step 21 Verify if an ISP option is installed. Is an ISP option installed? | Go to step 22. | The problem is solved. |
| Step 22 a Reinstall the first ISP option. b Reset the printer. Does the problem remain? | Go to step 24. | Go to step 23. |
| Step 23 Perform a job to test the option. Does the problem remain? | Go to step 24. | Go to step 26. |
| Step 24 a Upgrade the firmware if it was not upgraded in a previous step. Note: Contact your next level of support for the correct firmware level to use. b Reset the printer. c Perform a print job. Does the problem remain? | Go to step 25. | The problem is solved. |
| Step 25 a Replace the faulty ISP option. b Reset the printer. Does the problem remain? | Go to step 31. | Go to step 26. |
| Step 26 Verify if there are more ISP options to install. Are there more ISP options to install? | Go to step 27. | The problem is solved. |
| Step 27 a Install the next ISP option. b Reset the printer. Does the problem remain? | Go to step 29. | Go to step 28. |

| Action | Yes | No |
|--|----------------|----------------|
| Step 28 Perform a job to test the option. Does the problem remain? | Go to step 29. | Go to step 26. |
| Step 29 a Upgrade the firmware if it was not upgraded in a previous step. Note: Contact your next level of support for the correct firmware level to use. b Reset the printer. c Send a print job. Does the problem remain? | Go to step 30. | Go to step 26. |
| Step 30 a Replace the faulty ISP option. b Reset the printer. Does the problem remain? | Go to step 31. | Go to step 26. |
| Step 31 Contact your next level of support. Provide the following information: <ul style="list-style-type: none"> • Exact 900.xx error digits and complete error message • Printed menu settings page • Printed network settings page • Device error log • A sample print file if the error appears to be isolated to a single file • File/Application used if the error is related to specific print file • Device operating system • Driver used (PCL/PS) • Frequency of the occurrence of the error | | |

Option controller board failure service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Reset the printer. b Make sure that all cables are properly connected on the engine board and controller board. Does the problem remain? | Go to step 2. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 2 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Is the board properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the controller board. See “Controller board removal” on page 613 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Install the latest firmware version. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Input and output option error service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 a Reseat the option interface cable connector on both ends. b Trace the cable path going to the controller board for cable disconnection, and reseat if necessary. c Check the cable for damage, and replace if necessary. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Reseat all the cables on the option controller board. b Check the cables for damage, and replace if necessary. Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 3 a Reseat all the cables on the option controller board. b Check the cables for damage, and replace if necessary. c Check the option controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the option controller board. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Make sure that the firmware version is the latest, and update if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Expansion controller board failure service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Enter the Diagnostics menu, and then navigate to: Printer setup > Service engine reset Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 Make sure that the interface cable is properly connected to the finisher and expansion controller board. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat all cable connectors on the expansion controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the expansion controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 6. | Go to step 5. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 5 Replace the expansion controller board. See “Expansion controller board removal” on page 607. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 8. |
| Step 8 Replace the engine board. See “Engine board removal” on page 616. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Communication error service check

| Action | Yes | No |
|--|---------------|------------------------|
| Step 1 Disconnect the output option. Does the problem remain? | Go to step 2. | Go to step 3. |
| Step 2 Disconnect the input option. Does the problem remain? | Go to step 4. | Go to step 3. |
| Step 3 Perform the input and output option error service check. See “Input and output option error service check” on page 325. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 a From the home screen, navigate to: Settings > Device > Maintenance > Configuration Menu > Scanner Configuration b Select Disable Scanner . Does the problem remain? | Go to step 8. | Go to step 5. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 5 Check the ADF CIS cable for proper connection and damage, and replace if necessary. See “ADF CIS cable removal” on page 772 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 a Reseat all the cables on the ADF controller board. b Check the cables for damage, and replace if necessary. c Check the ADF controller board for proper installation and damage, and replace if necessary. See “ADF controller board removal” on page 773 . Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Reseat all the cables on the scanner controller board b Check the cables for damage, and replace if necessary. c Check the scanner controller board for proper installation and damage, and replace if necessary. See “Scanner controller board removal” on page 846 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 a Reseat all cable connectors on the image controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Check the image controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 11. | Go to step 10. |
| Step 10 Replace the image controller board. See “Image controller board removal” on page 571 . Does the problem remain? | Go to step 11. | The problem is solved. |
| Step 11 a Reseat all cable connectors on the controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 12. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 12 Check the controller board pins for damage, and replace if necessary. See “Controller board removal” on page 613 . Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 a Check all cable connectors on the engine board for proper connection and damage, and replace if necessary. b Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 14. |
| Step 14 Replace the engine board. See “Engine board removal” on page 616 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Other symptoms

Base printer symptoms

| Symptom | Action |
|---|--|
| The printer has no power. | See “Printer no power service check” on page 330 . |
| Right door is always detected as open. | See “Right door always open service check” on page 332 . |
| Front door is always detected as open. | See “Close door A service check” on page 334 . |
| Tray 1 is not detected. | See “Tray 1 missing service check” on page 335 . |
| Tray 2 is not detected. | See “Tray 2 missing service check” on page 337 . |
| No display on control panel. | See “No control panel display service check” on page 339 . |
| Constant five-beep sound. | See “Five-beep sound service check” on page 340 . |
| The USB device is not detected. | See “USB device not detected service check” on page 341 . |
| Output bin is always detected as empty. | See “Output bin empty service check” on page 342 . |

Printer no power service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Make sure that the input voltage of the power cord matches the rated input voltage of the printer. b Check the power cord for proper installation and damage, and replace if necessary. Does the problem remain? | Go to step 2. | The problem is solved. |
| Step 2 a Check the main power switch for proper installation and damage. b Reseat the power switch cable. Is the main power switch properly installed and free of damage? | Go to step 4. | Go to step 3. |
| Step 3 Replace the main power switch. See “Main power switch and main power cable removal” on page 588. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the main power switch cable for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Reseat all cable connectors on the power supply interface board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the power supply interface board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the power supply interface board. Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------------------|
| Step 8 a Reseat all cable connectors on the main power supply. b Check the main power supply for proper installation and damage. Is the main power supply properly installed and free of damage? | Go to step 10. | Go to step 9. |
| Step 9 Replace the main power supply. See “Main power supply removal” on page 423. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the power socket for proper installation and damage. Is the power socket properly installed and free of damage? | Go to step 12. | Go to step 11. |
| Step 11 Replace the power socket. See “Power socket cable removal” on page 668. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the power socket cable for proper installation and damage. Is the cable properly installed and free of damage? | Go to step 14. | Go to step 13. |
| Step 13 Replace the power socket cable. See “Power socket cable removal” on page 668. Does the problem remain? | Go to step 14. | The problem is solved. |
| Step 14 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 16. | Contact the next level of support. |

| Action | Yes | No |
|--|------------------------------------|------------------------|
| Step 16 a Reseat all cable connectors on the controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 17. | The problem is solved. |
| Step 17 Check the controller board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 18. |
| Step 18 Replace the controller board. See “Controller board removal” on page 613 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Right door always open service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the right door for proper installation and damage. Is the door properly installed and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the right door. See “Right door removal” on page 430 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the right door switch actuator for proper installation and damage. Is the actuator properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the right door switch actuator. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|-----------------------------------|
| Step 5 Check the following components for proper installation and damage: <ul style="list-style-type: none"> • Right door upper lock • Right door release handle • Right door middle lock • Right door lock support • Right door lower lock Are the components properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the damaged components. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 Check the right door switch for proper installation and damage. Is the switch properly installed and free of damage? | Go to step 9. | Go to step 8. |
| Step 8 Replace the right door switch. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 <ol style="list-style-type: none"> Reseat all cable connectors on the engine board. Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 11. | Contact the next level of support |
| Step 11 <ol style="list-style-type: none"> Reseat all cable connectors on the controller board. Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Check the controller board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 13. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 13 Replace the controller board. See “Controller board removal” on page 613. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Close door A service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the front door and front door actuator for proper installation and damage. Are the door and actuator properly installed and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the front door. See “Front door removal” on page 541. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the door switch for proper installation and damage. Is the switch properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the door switch. See “Door switch removal” on page 591. Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 Check the door switch cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the door switch cable. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 8. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------------------|
| Step 8 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 9. | Contact the next level of support. |
| Step 9 a Reseat all cable connectors on the controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 Check the controller board for proper installation and damage. Is the board properly installed and free of damage? | Contact the next level of support. | Go to step 11. |
| Step 11 Replace the controller board. See “Controller board removal” on page 613 . Does the problem remain? | Contact the next level of support. | The problem is solved. |

Tray 1 missing service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the tray 1 insert for proper installation and damage. Is the tray insert properly installed and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the tray 1 insert. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the tray 1 lock for proper installation and damage. Is the lock properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the tray 1 lock. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 5 Check the tray paper length guide for proper installation and damage. Is the length guide properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the tray paper length guide. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (tray 1 paper length). Does the sensor status change while toggling the sensor? | Go to step 10. | Go to step 8. |
| Step 8 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Replace the sensor. See “Sensor (tray 1 paper length) removal” on page 685 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (tray 1 paper width). Does the sensor status change while toggling the sensor? | Go to step 13. | Go to step 11. |
| Step 11 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Replace the sensor. See “Sensor (tray 1 paper width) removal” on page 647 . Does the problem remain? | Go to step 13. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------------------|
| Step 13 a Reseat the tray 1 feed cable on both ends. b Check the cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the tray 1 feed cable. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 16. | Contact the next level of support. |
| Step 16 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Tray 2 missing service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the tray 2 insert for proper installation and damage. Is tray insert properly installed and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the tray 2 insert. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the tray 2 lock for proper installation and damage. Is the lock properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the tray 2 lock. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|--|----------------|------------------------|
| Step 5 Check the length guide for proper installation and damage. Is the tray paper length guide properly installed and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the tray paper length guide. Does the problem remain? | Go to step 7. | The problem is solved. |
| Step 7 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (tray 2 paper length). Does the sensor status change while toggling the sensor? | Go to step 10. | Go to step 8. |
| Step 8 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Replace the sensor. See “Sensor (tray 2 paper length) removal” on page 685 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (tray 2 paper width). Does the sensor status change while toggling the sensor? | Go to step 13. | Go to step 11. |
| Step 11 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Replace the sensor. See “Sensor (tray 2 paper width) removal” on page 649 . Does the problem remain? | Go to step 13. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------------------|
| Step 13 a Reseat the tray 2 feed cable on both ends. b Check the cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 15. | Go to step 14. |
| Step 14 Replace the tray 2 feed cable. Does the problem remain? | Go to step 15. | The problem is solved. |
| Step 15 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 16. | Contact the next level of support. |
| Step 16 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

No control panel display service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Reseat the control panel FFC on both ends. b Check the cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the control panel FFC. See “Control panel FFC removal” on page 551 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 a Reseat the control panel power cable on both ends. b Check the cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the control panel power cable. Does the problem remain? | Go to step 5. | The problem is solved. |

| Action | Yes | No |
|--|------------------------------------|------------------------------------|
| Step 5 a Reseat all cable connectors on the control panel board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the control panel board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 8. | Go to step 7. |
| Step 7 Replace the control panel board. See “Control panel (10.1 inch) board removal” on page 549 . Does the problem remain? | Go to step 8. | The problem is solved. |
| Step 8 Check the controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 9. | Contact the next level of support. |
| Step 9 a Reseat all cable connectors on the controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Five-beep sound service check

| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 a Reseat the control panel FFC on both ends. b Check the cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the control panel FFC. See “Control panel FFC removal” on page 551 . Does the problem remain? | Go to step 3. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------------------|
| Step 3 a Reseat all cable connectors on the controller panel board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Go to step 4. | The problem is solved. |
| Step 4 Check the control panel board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 6. | Go to step 5. |
| Step 5 Replace the control panel board. See “Control panel (10.1 inch) board removal” on page 549 . Does the problem remain? | Go to step 6. | The problem is solved. |
| Step 6 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 7. | Contact the next level of support. |
| Step 7 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

USB device not detected service check

| Action | Yes | No |
|--|---------------|------------------------------------|
| Step 1 a Reseat the USB extension cable on the controller panel board. b Check the cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the USB extension cable. Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the controller board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 4. | Contact the next level of support. |

| Action | Yes | No |
|---|------------------------------------|------------------------|
| Step 4 a Reseat all cable connectors on the controller board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Output bin empty service check

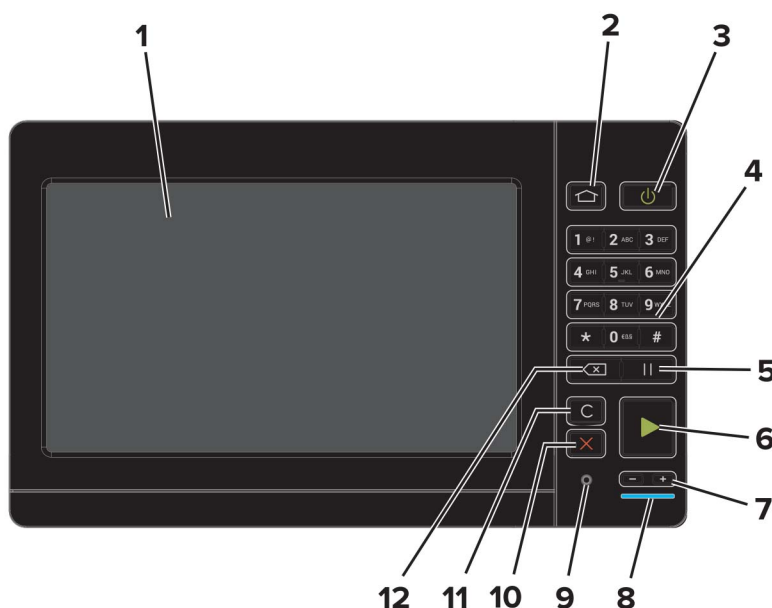
| Action | Yes | No |
|---|---------------|------------------------|
| Step 1 Check the standard bin exit sensor assembly for proper installation and damage. Is the sensor assembly properly installed and free of damage? | Go to step 3. | Go to step 2. |
| Step 2 Replace the sensor assembly. See “Standard bin exit assembly removal” on page 555 . Does the problem remain? | Go to step 3. | The problem is solved. |
| Step 3 Check the redrive exit guide for proper installation and damage. Is the redrive exit guide properly installed and free of damage? | Go to step 5. | Go to step 4. |
| Step 4 Replace the guide. See “Redrive exit guide removal” on page 556 . Does the problem remain? | Go to step 5. | The problem is solved. |
| Step 5 a Reseat the redrive exit sensor cable on both ends. b Check the cable for proper connection and damage. Is the cable properly connected and free of damage? | Go to step 7. | Go to step 6. |
| Step 6 Replace the cable. See “Redrive exit sensor cable removal” on page 557 . Does the problem remain? | Go to step 7. | The problem is solved. |

| Action | Yes | No |
|---|------------------------------------|------------------------------------|
| Step 7 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (redrive exit). Does the sensor status change while toggling the sensor? | Go to step 10. | Go to step 8. |
| Step 8 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 9. | The problem is solved. |
| Step 9 Replace the sensor. See “Sensor (redrive exit) removal” on page 556 . Does the problem remain? | Go to step 10. | The problem is solved. |
| Step 10 a Enter the Diagnostics menu, and then touch Printer diagnostics & adjustments . b From the Sensor tests section, touch Start . c Find, and then manually toggle the sensor (standard bin exit). Does the sensor status change while toggling the sensor? | Go to step 13. | Go to step 11. |
| Step 11 Reseat the sensor cable connector on both ends. Does the problem remain? | Go to step 12. | The problem is solved. |
| Step 12 Replace the sensor (standard bin exit). Does the problem remain? | Go to step 13. | The problem is solved. |
| Step 13 Check the engine board for proper installation and damage. Is the board properly installed and free of damage? | Go to step 14. | Contact the next level of support. |
| Step 14 a Reseat all cable connectors on the engine board. b Check all cable connectors for proper connection and damage, and replace if necessary. Does the problem remain? | Contact the next level of support. | The problem is solved. |

Service menus

Understanding the printer control panel

Using the control panel



| | Use the | To |
|----|-------------------------|---|
| 1 | Display | <ul style="list-style-type: none"> View the printer messages and supply status. Set up and operate the printer. |
| 2 | Home button | Go to the home screen. |
| 3 | Power button | <ul style="list-style-type: none"> Turn on or turn off the printer. <p>Note: To turn off the printer, press and hold the power button for five seconds.</p> <ul style="list-style-type: none"> Set the printer to Sleep or Hibernate mode. Wake the printer from Sleep or Hibernate mode. |
| 4 | Keypad | Enter numbers or symbols in an input field. |
| 5 | Pause button | Place a dial pause in a fax number. |
| 6 | Start button | Start a job, depending on which mode is selected. |
| 7 | Volume buttons | Adjust the volume of the headset or speaker. |
| 8 | Indicator light | Check the status of the printer. |
| 9 | Headset or speaker port | Attach a headset or speaker. |
| 10 | Stop or Cancel button | Stop the current job. |

| | Use the | To |
|-----------|---------------------------|--|
| 11 | Clear all or Reset button | Reset the default settings of a function such as copying, faxing, or scanning. |
| 12 | Backspace button | Move the cursor backward and delete a character in an input field. |

Understanding the status of the power button and indicator light

| Indicator light | Printer status |
|-----------------|--|
| Off | The printer is off or in Hibernate mode. |
| Blue | The printer is ready or processing data. |
| Red | The printer requires user intervention. |

| Power button light | Printer status |
|--------------------|--|
| Off | The printer is off, ready, or processing data. |
| Solid amber | The printer is in sleep mode. |
| Blinking amber | The printer is in hibernate mode. |

Using the home screen

Note: Your home screen may vary depending on your home screen customization settings, administrative setup, and active embedded solutions.



| Touch | | To |
|-------|-----------------|---|
| 1 | Copy | Make copies. |
| 2 | E-mail | Send e-mails. |
| 3 | Change Language | Change the language on the printer display. |
| 4 | Fax | Send fax. |
| 5 | Settings | Access the printer menus. |

| Touch | | To |
|-------|-----------------|--|
| 6 | Held Faxes | Show all the current held fax jobs. Note: If Held Faxes is hidden, then Release Held Faxes appears. |
| 7 | Shortcut Center | Organize all shortcuts. |
| 8 | Status/Supplies | <ul style="list-style-type: none"> Show a printer warning or error message whenever the printer requires intervention to continue processing. View more information on the printer warning or message, and on how to clear it. Note: You can also access this setting by touching the top section of the home screen. |
| 9 | Address Book | Access, create, and organize contacts. |
| 10 | Scan Profiles | Scan and save documents directly to the computer. |
| 11 | FTP | Scan and save documents directly to an FTP server. |
| 12 | Bookmarks | Organize all bookmarks. |
| 13 | Held Jobs | Show all the current held print jobs |
| 14 | USB Drive | View, select, or print photos and documents from a flash drive. |
| 15 | Job Queue | Show all the current print jobs. Note: You can also access this setting by touching the top section of the home screen. |

These settings may also appear on the home screen

| Touch | To |
|--------------|--|
| App Profiles | Access application profiles. |
| Lock Device | Prevent users from accessing any printer functions from the home screen. |

Menu map

Device

| | |
|--|---|
| <ul style="list-style-type: none"> • Preferences • Remote Operator Panel • Notifications • Power Management • Information Sent to Lexmark | <ul style="list-style-type: none"> • Accessibility • Restore Factory Defaults • Maintenance • Visible Home Screen Icons • About This Printer |
|--|---|

Print

| | |
|--|---|
| <ul style="list-style-type: none"> • Layout • Finishing • Setup • Quality • Job Accounting • XPS | <ul style="list-style-type: none"> • PDF • PostScript • PCL • HTML • Image • PPDS |
|--|---|

Paper

| | |
|---|---|
| <ul style="list-style-type: none"> • Tray Configuration • Media Configuration | <ul style="list-style-type: none"> • Bin Configuration |
|---|---|

Copy

| |
|---------------|
| Copy Defaults |
|---------------|

Fax

| | |
|--|--|
| <ul style="list-style-type: none"> • Fax Mode • Analog Fax Setup | <ul style="list-style-type: none"> • Fax Server Setup |
|--|--|

E-mail

| | |
|---|--|
| <ul style="list-style-type: none"> • E-mail Setup • E-mail Defaults | <ul style="list-style-type: none"> • Web Link Setup |
|---|--|

Network/Ports

| | |
|---|--|
| <ul style="list-style-type: none"> • Network Overview • Wireless • AirPrint • Ethernet • TCP/IP • IPv6 • SNMP • IPSec | <ul style="list-style-type: none"> • LPD Configuration • HTTP/FTP Settings • ThinPrint • USB • Parallel [x] • Serial • Google Cloud Print • Wi-Fi Direct |
|---|--|

FTP

| |
|--------------|
| FTP Defaults |
|--------------|

USB Drive

| | |
|--|---|
| <ul style="list-style-type: none"> • Flash Drive Scan | <ul style="list-style-type: none"> • Flash Drive Print |
|--|---|

Security

| | |
|---|---|
| <ul style="list-style-type: none"> • Login Methods • Schedule USB Devices • Security Audit Log • Login Restrictions • Confidential Print Setup | <ul style="list-style-type: none"> • Disk Encryption • Erase Temporary Data Files • Solutions LDAP Settings • Miscellaneous |
|---|---|

Option Card Menu

Note: This setting appears only when an optional card is installed.

Reports

| | |
|---|---|
| <ul style="list-style-type: none"> • Menu Settings Page • Device • Print | <ul style="list-style-type: none"> • Shortcuts • Fax • Network |
|---|---|

Help

| | |
|--|---|
| <ul style="list-style-type: none"> • Print All Guides • Color Quality Guide • Connection Guide • Copy Guide • E-mail Guide • Fax Guide | <ul style="list-style-type: none"> • Information Guide • Media Guide • Moving Guide • Print Quality Guide • Scan Guide • Supplies Guide |
|--|---|

Troubleshooting

| | |
|--|---|
| <ul style="list-style-type: none"> • Print Quality Test Pages | <ul style="list-style-type: none"> • Advanced Print Quality Test Pages |
|--|---|

Printing a menu settings page

From the home screen, touch **Settings > Reports > Menu Settings Page**.

Diagnostics menu

Entering the Diagnostics menu

The Diagnostics menu contains tests that are used to help isolate issues with the printer. To access some of these tests, avoid POST tests that run at POR. Some POST tests can generate errors that prevent a diagnostic test from running.

To access the Diagnostics menu without running the POST tests:

- 1 Press and hold the **3** and **6** buttons while turning on the printer.
- 2 Release the buttons when the splash screen appears.

To access the Diagnostics menu from the home screen, press ** **3 6** on the control panel.

Event log

Print log (summary)

This setting lists a brief summary of the various printer events.

- 1 Enter the Diagnostics menu, and then navigate to:

Event log > Print log (summary)

- 2 Touch **Start**.

Note: The events that appear in the report vary depending on the operational history of the printer.

Print log (extended)

This setting lists an extended version of the various printer events.

- 1 Enter the Diagnostics menu, and then navigate to:

Event log > Print log (extended)

- 2 Touch **Start**.

Note: The events that appear in the report vary depending on the operational history of the printer.

Display log

This setting shows the panel text that appears when the event occurs.

Enter the Diagnostics menu, and then navigate to:

Event log > Display log

Mark log

This setting allows you to create a service, maintenance, or custom log entry. Each log entry is added in the printer event log.

- 1 Enter the Diagnostics menu, and then navigate to:

Event log > Mark log

- 2 Select a log that you want to create, and then touch **Start**.

Reports

Device Settings

This report lists all the current printer settings.

Enter the Diagnostics menu, and then navigate to:

Reports > Device Settings

Installed Licenses

This setting lists all the installed licenses and their feature data.

Enter the Diagnostics menu, and then navigate to:

Reports > Installed Licenses

Advanced Print Quality Samples

This setting prints a list of the printer settings and sample pages to check print quality.

Enter the Diagnostics menu, and then navigate to:

Advanced Print Quality Samples > Advanced Print Quality Test Pages

Format FAX Storage

This setting enables you to format the non-volatile storage for faxes.

- 1 Enter the Diagnostics menu, and then select **Format FAX Storage**.

Note: If an advanced password has been established, then enter the password to change the setting. If no advanced password exists, then establish one by using the keyboard that appears on the screen.

- 2 Touch **Start**.

Input tray quick print

This setting lets you print a single or continuous Quick Test page in either duplex or simplex mode.

- 1 Enter the Diagnostics menu, and then touch **Input tray quick print**.
- 2 Select where you want to print the pages from.
- 3 Select whether to print a single or continuous test page, and then touch **Start**.

Output bin quick feed

This setting lets you send a test page to the output bins.

- 1 Enter the Diagnostics menu, and then touch **Output bin quick feed**.
- 2 Select the output bin for the test page.

Note: When Standard bin is selected, select either single or continuous test page.

Printer setup

Printed page count (mono)

This setting shows the amount of pages printed in mono.

- 1 Enter the Diagnostics menu, and then touch **Printer setup**.
- 2 View the printed page count for mono.

Printed page count (color)

This setting shows the amount of pages printed in color.

- 1 Enter the Diagnostics menu, and then touch **Printer setup**.
- 2 View the printed page count for color.

Permanent page count

This setting shows the total number of pages printed in mono and color. After all the print tests are completed, this value resets to zero.

- 1 Enter the Diagnostics menu, and then touch **Printer setup**.
- 2 View the permanent page count.

Enable edge-to-edge (printing)

This setting shifts all four margins to the physical edges of the page.

Note: Contamination of the second transfer roller may result from printing up to the physical edges of the page.

- 1 Enter the Diagnostics menu, and then navigate to:
Printer setup > Enable edge-to-edge (printing)
 - 2 Select a setting to adjust.
- Note:** This feature does not work in PPDS emulation.

Enable edge-to-edge (copy)

This setting determines whether the printer accepts the ADF or flatbed edge erase value when performing an ADF or flatbed copy.

- 1 Enter the Diagnostics menu, and then navigate to:
Printer setup > Enable edge-to-edge (copy)
- 2 Select a setting to adjust.

Processor ID

This setting indicates the ID of the processor on the controller board.

- 1 Enter the Diagnostics menu, and then touch **Printer setup**.
- 2 View the processor ID.

Serial number

This setting shows a read-only value of the serial number.

- 1 Enter the Diagnostics menu, and then touch **Printer setup**.
- 2 View the serial number.

Model name

This setting shows the model name of the printer.

- 1 Enter the Diagnostics menu, and then touch **Printer setup**.
- 2 View the model name.

Reset Maintenance Counter

This setting resets the selected maintenance count value to zero.

- 1 Enter the Diagnostics menu, and then navigate to:
Printer setup > Reset Maintenance Counter
- 2 Select the maintenance kit to reset.

Reset Engine Service Error

This setting clears a service error and restores the engine settings.

- 1 Enter the Diagnostics menu, and then navigate to:
Printer setup > Reset Engine Service Error
- 2 Touch **Start**.

Printer diagnostics and adjustments

Sensor tests

Testing the sensor

- 1 Enter the Diagnostics menu, and then touch **Printer diagnostics & adjustments**.
- 2 From the Sensor tests section, touch **Start**.
A dialog listing the sensor tests appears.
- 3 Find, and then manually toggle the sensor or actuator.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (fusing pressure home)

- 1 Enter the Diagnostics menu, and then touch **Printer diagnostics & adjustments**.
- 2 From the Sensor tests section, touch **Start**.
A dialog listing the sensor tests appears.

3 Run the motor (fusing pressure) or the motor (fusing pressure release). For more information, see [“Motor tests” on page 355](#).

4 Find, and then note if the sensor toggled.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

List of sensor tests

| Test | Procedure to perform before the test |
|----------------------------|---|
| Tray 1 empty | Remove tray 1. |
| Tray 1 near empty | |
| MPF paper length 1 | -- |
| MPF paper length 2 | |
| MPF lift plate position | Turn the MPF lift plate cam. |
| MPF empty | -- |
| Registration | Open door C. |
| Paper exit | |
| Fusing speed | |
| Tray 1 paper feed | |
| Tray 1 lift plate limit | Remove tray 1. |
| Duplex pass through 1 | -- |
| Duplex pass through 2 | Open door C, and then close door C6. |
| CMY retract | Open door C, and then remove the transfer belt. |
| Waste toner bottle present | Remove the waste toner bottle. |
| Waste toner bottle full | |
| Tray 2 empty | Remove tray 2. |
| Fusing pressure home | -- |
| Tray 2 near empty | Remove tray 2. |
| Tray 2 transport | Open door C. |
| Tray 2 paper feed | |
| Tray 2 lift plate limit | Remove tray 2. |

Motor tests

Enabling safe mode

Note: The motors are activated only in safe mode.

- 1** Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Motor tests
- 2** Select any motor, and then open the front door or right door.
- 3** On the control panel, touch **Start**. The message **Motor Activated** and the Cancel button appear.
- 4** Wait until the Cancel button is replaced with the OK button, and then touch **OK**.
- 5** Close the front door or right door.
Safe mode is now enabled.

Testing the motor

Open the door or cover to check whether the motor and the part it drives are properly working. However, make sure first to bypass the door or cover sensor.

- 1** Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Motor tests

- 2** Select a motor, and then touch **Start**.

Notes:

- If the motor and the part it drives are activated, then the motor is properly working.
- Some motors are not visible even if all the covers are open.
- Some motors require automatic deactivation to avoid secondary issues such as possible damage and contamination.
- Some tests require a special action to activate a motor such as removing a major component.
- If the motor fails, then the test failure may not indicate a failed motor. Further troubleshooting may be required. Check the boards and cables for possible issues.

- 3** Reset the printer.

List of motor tests

| Test | Procedure to perform before the test | What to check if the motor is properly working |
|--------------------------------------|--|--|
| MPF tray lift-up plate elevator down | Open the MPF. | The MPF lift plate moves. |
| Tray 1 lift | <ol style="list-style-type: none"> 1 Pull tray 1. 2 Open door C. 3 Bypass the sensor at door C. 4 Insert tray 1. | Tray 1 lift plate moves. |

| Test | Procedure to perform before the test | What to check if the motor is properly working |
|---------------------------|---|--|
| Tray 2 lift | 1 Pull tray 2. 2 Open door C. 3 Bypass the sensor at door C. 4 Insert tray 2. | Tray 2 lift plate moves. |
| CMY retract | 1 Remove the transfer module. 2 Bypass the sensor at door C. 3 Insert tray 2. | The fuser gear turns. |
| Registration | 1 Open door C. 2 Bypass the sensor at door C. 3 Insert tray 2. | The registration roller turns. |
| Tray 1 paper feed | 1 Open door C. 2 Bypass the sensor at door C. | Tray 1 feeds paper. |
| Tray 2 paper feed | | Tray 2 feeds paper. |
| Tray 2 vertical transport | | Tray 2 vertical transport roller turns. |
| Polygon | -- | The polygon motor emits a sound. |
| Transport | 1 Open door C. 2 Bypass the sensor at door C. | The transfer module turns. |
| Fusing | 1 Open door C. 2 Bypass the sensor at door C. 3 Press the fuser drive lever. | The fuser gears turn. |
| Fusing pressure | 1 Open door C. 2 Bypass the sensor at door C. | Cover C3 moves. |
| Fusing pressure release | | |
| Developing | 1 Open door A. 2 Remove the waste toner bottle. 3 Remove any photoconductor. 4 Bypass door A switch. | The developer roller turns. |
| Duplex transport | 1 Open door C. 2 Bypass the sensor at door C. | The duplex roller turns. |
| Redrive forward | | The redrive roller or gears turn. |
| Redrive reverse | | |

Memory tests

This setting lets you test or flash the printer memory or test or format the printer hard disk.

- Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Memory tests
- Select a setting.

Registration adjust

This setting lets you adjust the skew, margins, or perform a Quick Test. For more information, see [“Registration adjustment” on page 409](#).

- 1 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Registration adjust
- 2 Select a setting to adjust.

Color registration adjustment

This setting lets you adjust the color alignments and to print or reset the default settings. For more information, see [“Color registration adjustment” on page 410](#).

- 1 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Color registration adjustment
- 2 Select a setting to adjust.

Imaging process adjustment

This setting lets you adjust the image transfer process. For more information, see [“Imaging process adjustment” on page 413](#).

- 1 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Imaging process adjustment
- 2 Select a setting to adjust.

Scanner diagnostics

Scanner quick feed

This test allows for a continuous feed from the ADF or flatbed.

- 1 Enter the Diagnostics menu, and then navigate to:
Scanner diagnostics > Scanner quick feed
- 2 Select a paper size.
- 3 From the Feed Test section, touch **Start**.

Sensor tests

Testing the sensor

- 1 Enter the Diagnostics menu, and then touch **Scanner diagnostics**.
- 2 From the Sensor tests section, touch **Start**.
A dialog listing the sensor tests appears.
- 3 Find, and then manually toggle the sensor.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

List of sensor tests

- ADF scan shaft home
- Adf open
- Adf open angle
- Scanner media length 1
- Scanner media length 2
- ADF door open
- ADF jam access cover
- ADF registration
- ADF feed
- ADF exit
- ADF scan
- ADF paper width
- ADF paper length 1
- ADF paper length 2
- Adf Scan glass clean
- ADF paper empty
- ADF mixed paper width 1
- ADF mixed paper width 2
- ADF mixed paper width 3

Multifeed calibration

- 1** Enter the Diagnostics menu, and then touch **Scanner diagnostics**.
- 2** Select Multifeed Calibration, and then touch **Start**.

ASIC test

This setting scans the ASIC memory of the scanner.

Enter the Diagnostics menu, and then navigate to:

Scanner diagnostics > ASIC test

Scanner calibration reset

Before starting the test, make sure that the scanner glass and backing material are clean.

- 1** Enter the Diagnostics menu, and then touch **Scanner diagnostics**.
- 2** From the Sensor Calibration Reset section, touch **Start**.

To verify the result, do the following:

- 1** Load the ADF with a document containing light and dark content.
- 2** Print a two-sided copy of the document.

Notes:

- If the back side of the copy has vertical streaks, then clean the scanner glass and backing material, and then print another copy.
- If the streaks still appear, then repeat the cleaning and verification procedure or replace the ADF.

Additional input tray diagnostics

Sensor tests

Testing the sensor

- 1 Enter the Diagnostics menu, and then touch **Additional input tray diagnostics**.
- 2 Select the tray of the sensor that you want to test.
- 3 Find, and then manually toggle the sensor.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (main tray paper empty, bottom)

- 1 Enter the Diagnostics menu, and then navigate to touch:
Additional input tray diagnostics > 2500-sheet tray sensor test
- 2 Open the tray.
- 3 Remove or load the paper from the tray.
- 4 Close the tray.
- 5 Find, and then note if the sensor status on the screen toggled.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (tray elevator home)

- 1 Enter the Diagnostics menu, and then navigate to touch:
Additional input tray diagnostics > 2500-sheet tray sensor test
- 2 Find, and then note the sensor status on the screen.
- 3 Test the motor (tray elevator up). For more information, see [“Motor tests” on page 365](#).
- 4 Repeat step 1.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

- 5 Find, and then note if the sensor status on the screen toggled.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.

- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (tray transfer guide home)

- 1 Enter the Diagnostics menu, and then navigate to touch:

Additional input tray diagnostics > 2500-sheet tray sensor test

- 2 Find, and then note if the sensor status on the screen toggled.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

- 3 Open the tray.

- 4 Pull the transfer guide away from the home position.

- 5 Close the tray.

Testing the sensor (main tray near empty)

- 1 Enter the Diagnostics menu, and then navigate to touch:

Additional input tray diagnostics > 2500-sheet tray sensor test

- 2 Find, and then manually toggle the sensor:

- a Remove the tray.
- b Block the sensor.
- c Insert the tray.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (tray paper stack transfer)

- 1 Enter the Diagnostics menu, and then navigate to touch:

Additional input tray diagnostics > 2500-sheet tray sensor test

- 2 Find, and then manually toggle the sensor:

- a Open the tray.
- b Make sure that the paper stack transfer actuator always engages the sensor.
- c Close the tray.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (tray set) for the 2500-sheet tray

- 1 Enter the Diagnostics menu, and then navigate to touch:

Additional input tray diagnostics > 2500-sheet tray sensor test

- 2 Find, and then manually toggle the sensor:

- a Open the tray.
- b Close the tray.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (reserve tray paper empty)

- 1 Enter the Diagnostics menu, and then navigate to touch:

Additional input tray diagnostics > 2500-sheet tray sensor test

- 2 Find, and then manually toggle the sensor:

- a Open the tray.
- b Remove or load the paper from the tray.
- c Close the tray.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (reserve tray paper limit)

- 1 Enter the Diagnostics menu, and then navigate to touch:

Additional input tray diagnostics > 2500-sheet tray sensor test

- 2 Find, and then manually toggle the sensor:

- a Open the tray.
- b Make sure that the reserve tray paper limit actuator always engages the sensor.
- c Close the tray.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (tray set) for the 3000-sheet tray

- 1 Enter the Diagnostics menu, and then navigate to touch:
Additional input tray diagnostics > 3000-sheet tray sensor test

- 2 Find, and then manually toggle the sensor:
 - a Disengage the 3000-sheet tray from the printer.
 - b Insert paper into the exit section.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (tray upper limit) for the 3000-sheet tray

- 1 Enter the Diagnostics menu, and then navigate to touch:
Additional input tray diagnostics > 3000-sheet tray sensor test

- 2 Find, and then manually toggle the sensor:
 - a Open door F.
 - b Lift the pick mechanism.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (tray paper feed)

- 1 Enter the Diagnostics menu, and then navigate to touch:
Additional input tray diagnostics > 3000-sheet tray sensor test

- 2 Find, and then manually toggle the sensor:
 - a Disengage the 3000-sheet feed.
 - b Insert paper into the exit section.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (tray 1 near empty)

- 1 Enter the Diagnostics menu, and then navigate to touch:
Additional input tray diagnostics > 3000-sheet tray sensor test

- 2 Find, and then manually toggle the sensor:
 - a Open door F.
 - b Push the elevator down.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (tray 2 near empty)

1 Enter the Diagnostics menu, and then navigate to touch:

Additional input tray diagnostics > 3000-sheet tray sensor test

2 Find, and then manually toggle the sensor:

- a** Open door F.
- b** Push the elevator down.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

Testing the sensor (door switch)

1 Enter the Diagnostics menu, and then navigate to touch:

Additional input tray diagnostics > 3000-sheet tray sensor test

2 Open or close door F.

3 Find, and then note if the sensor status on the screen toggled.

Notes:

- The sensor status on the screen toggles between **1** and **0** when the sensor is properly working.
- If a sensor test fails, then the test failure may not indicate a failed sensor. Further troubleshooting may be required. Check the boards and cables for possible issues.

List of sensor tests

| Test | | Procedure to perform before the test |
|--------------------------------|---|--------------------------------------|
| 2 x 500-sheet tray sensor test | Tray 3 empty | Remove tray 3. |
| | Tray 3 near empty | |
| | Tray 3 transport | Open door D. |
| | Tray 3 feed Note: Use paper to toggle the sensor. | Pull tray 3, and then open door D. |
| | Tray 3 lift plate limit | Pull tray 3. |
| | Tray 4 empty | Remove tray 4. |
| | Tray 4 near empty | |
| | Tray 4 transport | Open door D. |
| | Tray 4 feed Note: Use paper to toggle the sensor. | Pull tray 4, and then open door D. |
| | Tray 4 lift plate limit | Pull tray 4. |
| | | |
| 2500-sheet tray sensor test | Main tray paper empty, bottom | -- |
| | Main tray elevator limit | Remove the tray. |
| | Tray elevator home | -- |
| | Tray transfer guide home | -- |
| | Tray feed Note: Use paper to toggle the sensor. | Open door D. |
| | Tray transport | |
| | Main tray paper empty, top | Remove the tray. |
| | Main tray near empty | -- |
| | Tray paper stack transfer | -- |
| | Tray set | -- |
| | Reserve tray paper empty | -- |
| | Reserve tray paper limit | -- |
| | | |
| | | |
| 3000-sheet tray sensor test | Tray set | -- |
| | Tray upper limit | -- |
| | Tray paper feed | -- |
| | Tray near empty sensor /1 | -- |
| | Tray near empty sensor /2 | -- |
| | Door switch | -- |

Motor tests

Enabling safe mode for the 3000-sheet tray

Note: The motors are activated only in safe mode.

- 1** Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Motor tests
- 2** Select any motor, and then open the front door or right door.
- 3** On the control panel, touch **Start**.
The message **Motor Activated** and the Cancel button appear.
- 4** Wait until the Cancel button is replaced with the OK button, and then touch **OK**.
- 5** Close the front door or right door.
Safe mode is now enabled.

Testing the motor

Open the door or cover to check whether the motor and the part it drives are properly working. However, make sure first to bypass the door or cover sensor.

- 1** Enter the Diagnostics menu, and then touch **Additional input tray diagnostics**.
- 2** Select the tray of the motor that you want to test.
- 3** Select the motor, and then touch **Start**.

Notes:

- If the motor and the part it drives are activated, then the motor is properly working.
- Some motors require automatic deactivation in order to avoid secondary issues such as possible damage and contamination.
- Some tests require a special action to activate a motor such as removing a major component.
- If the motor fails, the test failure may not indicate a failed motor. Further troubleshooting may be required. Check the boards and cables for possible issues.

- 4** Reset the printer.

List of motor tests

| Test | | Procedure to perform before the test | What to check if the motor is properly working |
|--------------------------------|---------------------|---|---|
| 2 x 500-sheet tray motor tests | Tray 3 lift | 1 Pull out tray 3. 2 Open doors C and D. 3 Bypass the sensors at doors C and D. 4 Insert tray 3. | Tray 3 lift plate moves. |
| | Tray 4 lift | 1 Pull out tray 4. 2 Open doors C and D. 3 Bypass the sensors at doors C and D. 4 Insert tray 4. | Tray 4 lift plate moves. |
| | Tray 3 paper feed | 1 Open doors C and D. 2 Bypass the sensors at doors C and D. | Tray 3 feeds paper. |
| | Tray 4 paper feed | | Tray 4 feeds paper. |
| | Tray 3 transport | | Tray 3 transport roller turns. |
| | Tray 4 transport | | Tray 4 transport roller turns. |
| 2500-sheet tray motor tests | Elevator up | 1 Pull out the tray, and then it. 2 Open doors C and D. | The elevator moves. |
| | Elevator down | | The elevator is the down position. |
| | Transfer guide home | 1 Pull out the tray. 2 Pull the transfer guide away from the home position. | The transfer guide returns to the home position. |
| | Transfer guide away | 1 Pull out the tray. 2 Make sure that the guide is at the home position. 3 Insert the tray. | The transfer guide moves away from the home position. |
| | Tray feed | Open door D. | The feed roller turns. |
| | Tray transport | | The transfer roller turns. |
| 3000-Sheet Tray Motor Tests | Tray elevator | Open door F, and then close it. | The elevator moves up. |
| | Tray feed | Open door F. | The feed roller turns. |
| | Tray transport | 1 Open door F. 2 Make sure that the guide is at the home position. 3 Insert paper into the pick assembly. | The transport roller turns. |

Entering the Configuration mode

- 1 Turn off the printer.
- 2 Press and hold **2** and **6** while turning on the printer.
Release the buttons when the splash screen appears.

Configuration menu

USB Configuration

This setting enables you to configure the USB settings.

USB PnP

This setting specifies the USB driver mode to improve USB port compatibility with computers.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > USB Configuration > USB PnP
- 2 Select a setting.

USB Scan to Local

This setting determines whether the USB device driver enumerates as a USB simple device (single interface) or as a USB composite device (multiple interfaces).

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > USB Configuration > USB Scan to Local
- 2 Select a setting.

USB Speed

This setting determines the speed of the USB port.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > USB Configuration > USB Speed
- 2 Select a setting.

Tray Configuration

Size Sensing

This setting enables the printer to detect the size of the paper loaded in the paper source.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Tray Configuration > Size Sensing
- 2 Select a paper source.
- 3 Select a paper size from each of the following pairs.
 - a Oficio or Folio
 - b Statement or A5
 - c Executive or B5

Note: The trays cannot distinguish the paper sizes when both are loaded. For example, choose only one between Oficio and Folio.

Tray Linking

This setting enables the printer to link the trays that have the same paper type and paper size settings.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Tray Configuration > Tray Linking
- 2 Select a setting.

Show Tray Insert Message

This setting enables the printer to display the **Tray Insert** message after the user inserts a tray.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Tray Configuration > Show Tray Insert Message
- 2 Select a setting.

Paper Prompts

This setting determines the paper source to which the printer directs a change paper prompt.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Tray Configuration > Paper Prompts
- 2 Select a setting.

Envelope Prompts

This setting determines the paper source to which the printer directs a change envelope prompt.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Tray Configuration > Envelope Prompts
- 2 Select a setting.

Action for Prompts

This setting determines which paper source receives paper- or envelope-related change prompts when they occur.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Tray Configuration > Action for Prompts
- 2 Select a setting.

Reports

Menu Settings Page

This page lists the default value of each menu setting.

Enter the Configuration mode, and then navigate to:

Configuration Menu > Reports > Menu Settings Page

Event Log

This report tracks the occurrence of various critical events in the printer.

Enter the Configuration mode, and then navigate to:

Configuration Menu > Reports > Event Log

Event Log Summary

This report shows a summary of Event Log.

Enter the Configuration mode, and then navigate to:

Configuration Menu > Reports > Event Log Summary

HealthCheck Statistics

This report provides information on the printer status.

Enter the Configuration mode, and then navigate to:

Configuration Menu > Reports > HealthCheck Statistics

Supply Usage And Counters

Clear Supply Usage History

This setting resets the supply usage history (number of pages and days remaining).

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Supply Usage And Counters > Clear Supply Usage History
- 2 Touch **Start**.

Reset Color Imaging Kit Counter

This setting resets the page counter for the color imaging kit.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Supply Usage And Counters > Reset Color Imaging Kit Counter
- 2 Touch **Start**.

Tiered Coverage Ranges

This setting enables the printer to count pages according to tiers or ranges based on the amount of color coverage on the printed page.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Supply Usage And Counters > Tiered Coverage Ranges
- 2 Select a setting to adjust.

Printer Emulations

PPDS Emulation

This setting enables the printer to use the PPDS data stream.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Printer Emulations > PPDS Emulation
- 2 Select a setting.

Fax Configuration

Fax Low Power Support

This setting determines the power setting when in fax mode.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Fax Configuration > Fax Low Power Support
- 2 Select a setting.

Fax Storage Location

This setting determines the storage location for all faxes.

Note: This setting appears only if a hard disk is installed.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Fax Configuration > Fax Storage Location
- 2 Select a location.

Print Configuration

Black Only Mode

This setting forces the printer to always print color content in grayscale.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Print Configuration > Black Only Mode
- 2 Select a setting.

Color Trapping

This setting enhances the printed output to compensate for misregistration in the printer.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Print Configuration > Color Trapping
- 2 Select a setting.

Font Sharpening

This setting determines the value below the setting of the high frequency screens used when printing front data.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Print Configuration > Font Sharpening
- 2 Specify a value.

Device Operations

Quiet Mode

This setting reduces the printer noise when in printing mode.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Device Operations > Quiet Mode
- 2 Select a setting.

Panel Menu

This setting enables the printer to show the control panel menus.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Device Operations > Panel Menus
- 2 Select a setting.

Custom Supply Levels

This setting specifies the supply levels.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Device Operations > Custom Supply Levels
- 2 Select a setting.

Safe Mode

This setting enables the printer to continue offering as much functionality as possible, despite known issues.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Device Operations > Safe Mode
- 2 Select a setting.

Minimum Copy Memory

This setting determines the memory allocation for storing copy jobs.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Device Operations > Minimum Copy Memory
- 2 Select a setting.

Clear Custom Status

This setting erases all custom messages.

Enter the Configuration mode, and then navigate to:

Configuration Menu > Device Operations > Clear Custom Status > Start

Clear all remotely-installed messages

This setting erases all remotely-installed messages.

Enter the Configuration mode, and then navigate to:

Configuration Menu > Device Operations > Clear all remotely-installed messages > Start

Automatically Display Error Screens

This setting automatically shows existing printer-related messages on the home screen after the printer remains inactive.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Device Operations > Automatically Display Error Screens
- 2 Select a setting.

Honor orientation on fast path copy

This setting enables the printer to use the Orientation setting under Copy menu when sending quick copy jobs.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Device Operations > Honor orientation on fast path copy
- 2 Select a setting.

Automatic Image Stabilization

This setting determines the toner density.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Device Operations > Automatic Image Stabilization
- 2 Select a setting.

App Configuration

LES Applications

This setting enables the Lexmark Embedded Solutions (LES) applications.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > App Configuration > LES Applications
- 2 Select a setting.

Scanner Configuration

Scanner Manual Registration

This setting manually registers the flatbed and ADF after replacing the ADF, scanner glass, or controller board.

- 1 Enter the Configuration mode, and then navigate to:
Configuration Menu > Scanner Configuration > Scanner Manual Registration
- 2 Select a setting to adjust.

Reset Maintenance Counter

This setting resets the ADF maintenance counter.

Enter the Configuration mode, and then navigate to:

Configuration Menu > Scanner Configuration > Scanner Manual Registration > Reset Maintenance Counter > Start

Edge Erase

This setting determines the size (in millimeters) of the no-print area around an ADF or a flatbed scan job.

1 Enter the Configuration mode, and then navigate to:

Configuration Menu > Scanner Configuration > Edge Erase

2 Select a setting to adjust.

Disable Scanner

This setting disables the scanner.

1 Enter the Configuration mode, and then navigate to:

Configuration Menu > Scanner Configuration > Disable Scanner

2 Select a setting.

Tiff Byte Order

This setting determines the byte order of a TIFF-formatted scan output.

1 Enter the Configuration mode, and then navigate to:

Configuration Menu > Scanner Configuration > Tiff Byte Order

2 Select a setting.

Exact Tiff Rows Per Strip

This setting enables you to set the RowsPerStrip tag value of a TIFF-formatted scan output.

1 Enter the Configuration mode, and then navigate to:

Configuration Menu > Scanner Configuration > Exact Tiff Rows Per Strip

2 Select a setting.

Out of Service Erase

Exit Maintenance Menu

This setting exits the Configuration mode and restarts the printer.

Service Engineer menu

Entering invalid engine mode

This mode is used if the machine has invalid code and needs the correct code loaded. After entering this mode, the firmware code can be updated.

- 1** Turn off the printer.
- 2** Press and hold the **3**, **4**, and **6** buttons simultaneously.
- 3** Turn on the printer.
- 4** Release the buttons after 10 seconds.

Entering the Service Engineer (SE) menu

To access the Service Engineer (SE) menu:

- 1** Turn on the printer.
- 2** When the home screen appears, press * * **411** on the control panel.
For 2-line control panels, press the right arrow button twice, press **OK**, and then press the left arrow button.

Fax SE Menu

Use this menu for the fax transmission and fax reception service checks.

Note: Use these settings as directed by the next level of support.

| Top level menu | Intermediate menu |
|------------------|--|
| Agency Test Menu | <ul style="list-style-type: none"> • Go Off Hook • Ring Detect • Generate Tones • Modulations |
| Fax Settings | <ul style="list-style-type: none"> • Fax Modulations • FOIP Settings • Miscellaneous Settings • Reset Fax Settings |

| Top level menu | Intermediate menu |
|----------------|---|
| Modem Settings | <ul style="list-style-type: none"> • Adjust Power FSK • ARA EQM Bias • Busy Tone Cycles • Busy Tone Max Off Time • Busy Tone Max On Time • Busy Tone Min Off Time • Busy Tone Min On Time • Caller ID Pattern • Congest Tone Cycles • Congest Tone Max Off Time • Congest Tone Max On Time • Congest Tone Min Off Time • Congest Tone Min On Time • DC Characteristic • Dial Timeout • Dial Tone Tresh • DTMF High Level • DTMF Low Level • Enable CEQ • High Ring Impedence • Impedance • Interdigit Delay • Negative Twt Ctrl • Positive Twt Ctrl • Progress Tresh • Pulse Break Time • Pulse Dial Type • Pulse Fall Time • Pulse Make Time • Receive Tresh • Transmit Level • V34 PreEmph Filt • V17 TX Filter • Digital Line Guard • Digital Line Threshold • Off-Hook Line Settle Time |
| Reboot System | N/A |

General SE Menu

Use this menu to view and save a log file to a USB drive.

Enter the Service Engineer (SE) menu, and then touch **General SE Menu**.

| Top level menu | Intermediate menu |
|---------------------------|---|
| Capture Logs to USB Drive | N/A |
| Code Versions | <ul style="list-style-type: none"> • base: [current value] • dbcs1 fonts: [current value] • dle fonts: [current value] • engine: [current value] • green Micro: [current value] • kernel: [current value] • loader: [current value] • panel: [current value] • recoverybase: [current value] • recoverykernel: [current value] • swap: [current value] • webclient: [current value] |
| Debug Level | debugLevel: [current value] |

Network SE Menu

Enter the Service Engineer (SE) menu, and then touch **Network SE Menu**.

Note: Use these settings as directed by the next level of support.

| Top level menu | Intermediate menu |
|----------------|--|
| History | <ul style="list-style-type: none"> • Print History • Mark History |
| MAC | <ul style="list-style-type: none"> • Set Card Speed • LAA • Keep Alive |
| NPAP | Print Alerts |
| TCP/IP | <ul style="list-style-type: none"> • DHCP Request Options • DHCP Request Null-Terminators • netstat • arp • Allow SNMP Set • MTU • Meditech Mode • RAW LPR Mode • GARP Interval |

| Top level menu | Intermediate menu |
|----------------|---|
| Ping Test | <ul style="list-style-type: none"> • Ping Address • Attempts • Packet Size • Ping • Ping6 |
| Other Actions | <ul style="list-style-type: none"> • ifconfig • IPtables [Firewall Dump] • IP6tables [Firewall Dump] • IPsec Dump |

Scanner SE Menu

Use this menu to view the current left, top, right, and mag scanner registration values for each scanner source (flatbed, ADF front, ADF rear).

Parts removal

Data security notice

Identifying printer memory

- **Volatile memory**—The printer uses standard random access memory (RAM) to buffer user data temporarily during simple print and copy jobs.
- **Nonvolatile memory**—The printer may use two forms of nonvolatile memory: EEPROM and NAND (flash memory). Both types are used to store the operating system, printer settings, network information, scanner and bookmark settings, and embedded solutions.
- **Hard disk memory**—Some printers have a hard disk drive installed. The hard disk is designed for printer-specific functionality and cannot be used for long-term storage of data that is not print-related. The hard disk does not let users extract information, create folders, create disk or network file shares, or transfer FTP information directly from a client device. The hard disk can retain buffered user data from complex print jobs, form data, and font data.

The following parts can store memory:

- Printer control panel
- User interface controller card (UICC)
- Controller board
- Optional hard disks

Note: The printer control panel and controller board contain NVRAM.

Erasing printer memory

To erase volatile memory, turn off the printer.

To erase nonvolatile memory, do the following:

- 1 From the home screen, navigate to **Settings > Device > Maintenance > Out of Service Erase > Sanitize all information on nonvolatile memory**.
- 2 Select **Sanitize all information on nonvolatile memory**, and then select **ERASE**.
- 3 Follow the instructions on the screen.

To erase hard disk memory, do the following:





- 1 From the home screen, navigate to **Settings > Device > Maintenance > Out of Service Erase > Sanitize all information on hard disk**.
- 2 Select **Sanitize all information on hard disk**, and then select **ERASE**.
- 3 Follow the instructions on the screen.

Note: This process can take from several minutes to more than an hour, making the printer unavailable for other tasks.

If a hard disk is replaced, then do the following:

- 1 Remove the hard disk, and then return it to the customer.
- 2 Request the customer to sign the *Customer Retention* form.
Note: You can get printed copies of the form from your Lexmark partner manager.
- 3 Take a photo of the signed form, and then upload it to the Service Request debrief tool.
- 4 Fax or e-mail the signed form to the number or e-mail address shown at the bottom of the form.

Removal precautions

-  **CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock and to prevent damage to the printer, remove the power cord from the electrical outlet and disconnect all connections to any external devices before you connect or disconnect any cable, electronic board, or assembly.
-  **CAUTION—POTENTIAL INJURY:** The printer weighs 89–135 kg (195–185 lb) and requires four trained personnel to lift it safely. Always use the handholds on the printer to lift it. Make sure that your fingers are not under the printer when you lift or set the printer down.
-  **CAUTION—HOT SURFACE:** The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.
-  **CAUTION—PINCH HAZARD:** To avoid the risk of a pinch injury, use caution in areas marked with this label. Pinch injuries may occur around moving parts, such as gears, doors, trays, and covers.

Handling ESD-sensitive parts

Many electronic products use parts that are known to be sensitive to electrostatic discharge (ESD). To prevent damage to ESD-sensitive parts, do the following:

- Turn off the printer before removing logic boards.
- Keep the parts in their original packing material until you are ready to install them into the printer.
- Make the least-possible movements with your body to prevent an increase of static electricity from clothing fibers, carpets, and furniture.
- Put the ESD wrist strap on your wrist. Connect the wrist band to the system ground point. This action discharges any static electricity in your body to the printer.
- Hold the parts by their edge connector shroud. Do not touch its pins. If you are removing a pluggable module, then use the correct tool.
- If possible, keep all parts in a grounded metal cabinet.
- Do not place the parts on the printer cover or on a metal table. If you need to put down the parts, then put them into their packing material.
- Prevent parts from being accidentally touched by other personnel. Cover the printer when you are not working on it.
- Be careful while working with the parts when cold-weather heating is used. Low humidity increases static electricity.

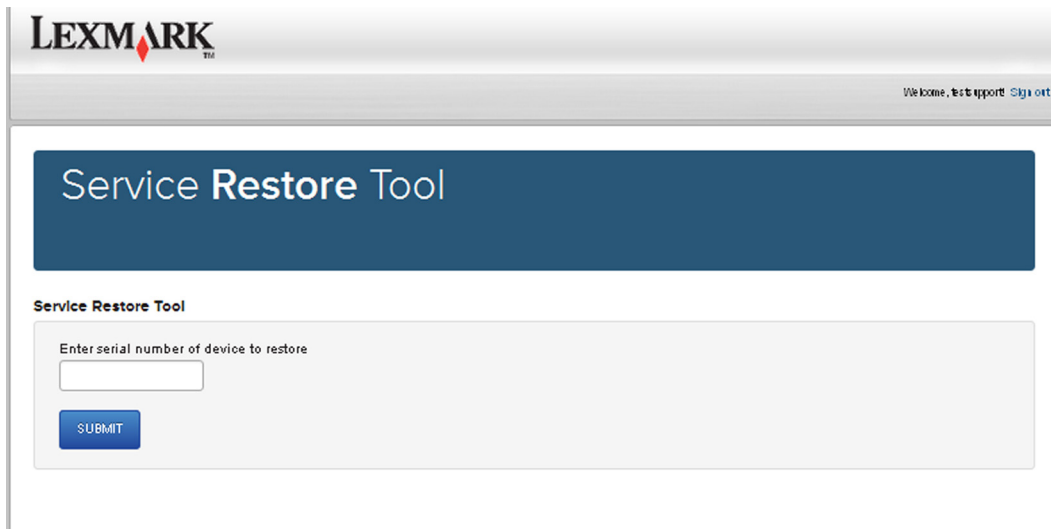
Restoring the printer configuration after replacing the controller board

Restore the printer to its correct configuration to complete the replacement service. Use the Service Restore Tool to download the software bundle, and then flash the printer settings and embedded solutions.

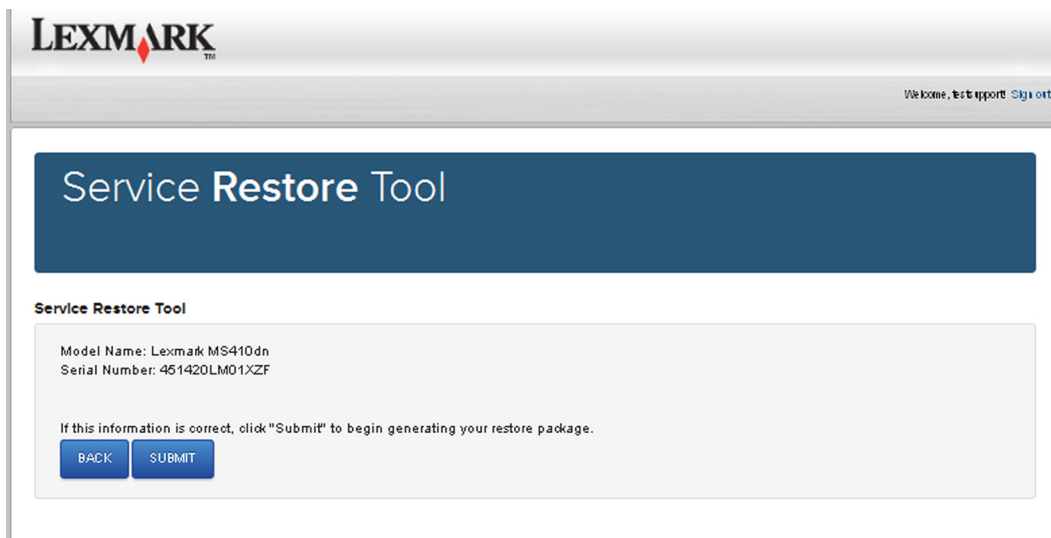
Note: The software bundle contains the latest version of the firmware, applications, and software licenses from the Lexmark Virtual Solutions Center (VSC). The printer firmware may be at a different level from what was used before replacing the controller board.

Using the Service Restore Tool

- 1 Go to <https://cdp.lexmark.com/service-restore-tool/> to access the tool.
- 2 Log in using your Lexmark or partner login.
If your login fails, then contact your next level of support.
- 3 Enter the printer serial number, and then submit the information.

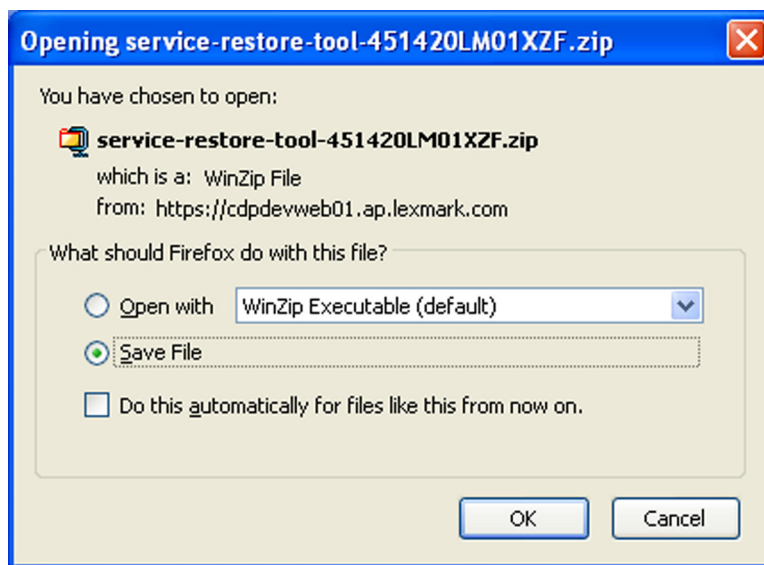


Note: Make sure that the serial number that appears on the verification screen is correct.



- 4 Save the zip file.

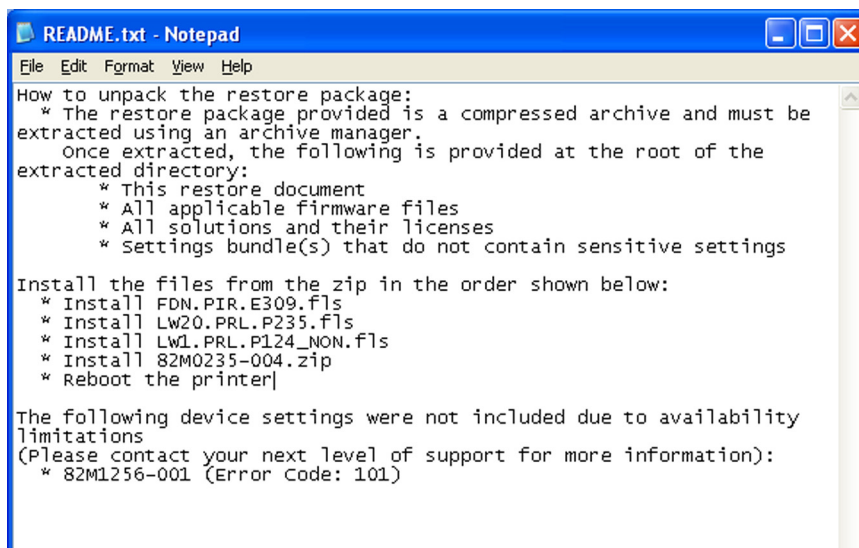
Note: Make sure that the serial number in the zip file matches the serial number of the printer being restored.



- 5 Extract the contents of the zip file, open the *Readme* file, and then follow the instructions in the file.

Notes:

- Perform the install instructions on the *Readme* file in the exact order shown. Only restart the printer when instructed to in the file.
- For more information on how to flash the downloaded files, see [“Updating the printer firmware ” on page 384.](#)
- To load the zip files that are extracted from the Service Restore Tool, see [“Restoring solutions, licenses, and configuration settings” on page 383.](#)



- 6 After performing the installation instructions in the *Readme* file, confirm from the customer if all the eSF apps have been installed.

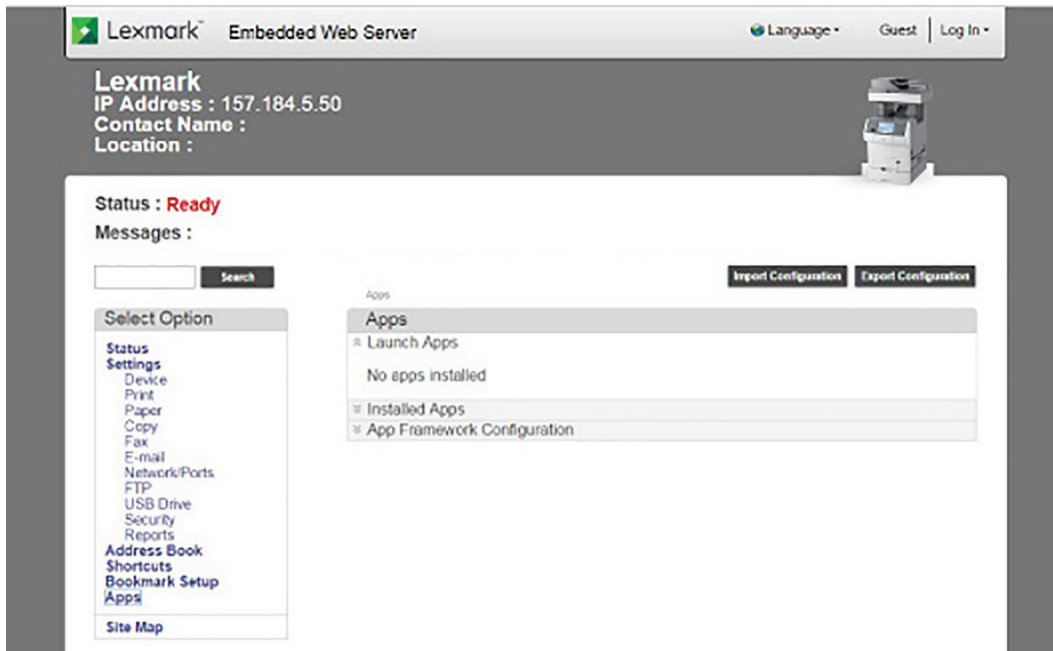
Notes:

- If you are unable to access the administrative menus to verify that the printer is restored, then ask the customer for access rights.
- If a 10.00 error appears after you restart the printer, then contact the next level of support.

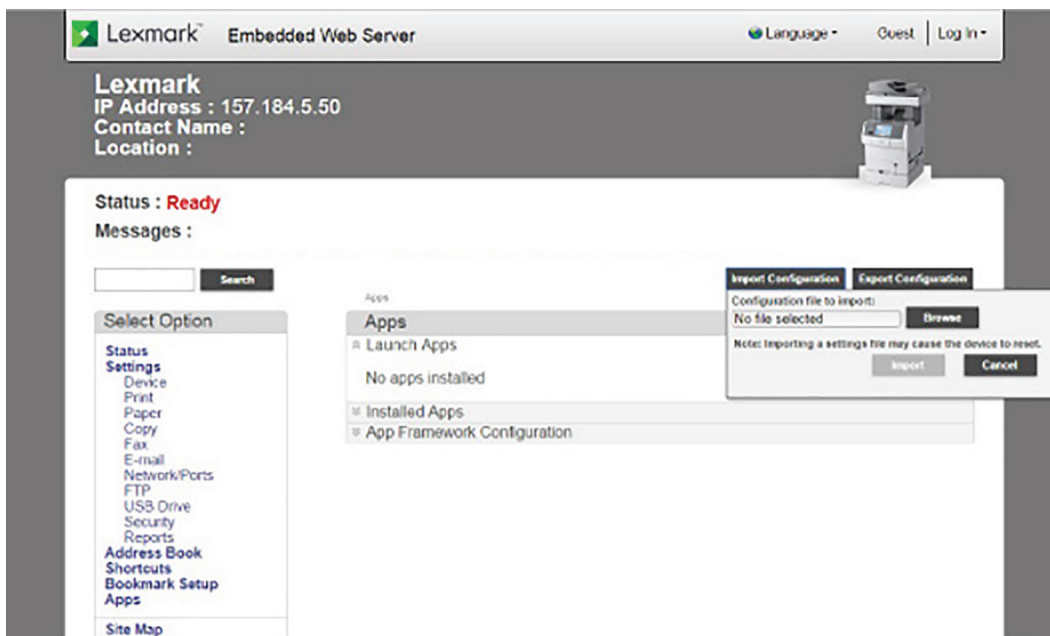
Restoring solutions, licenses, and configuration settings

To load the zip files that are extracted from the Service Restore Tool, do the following:

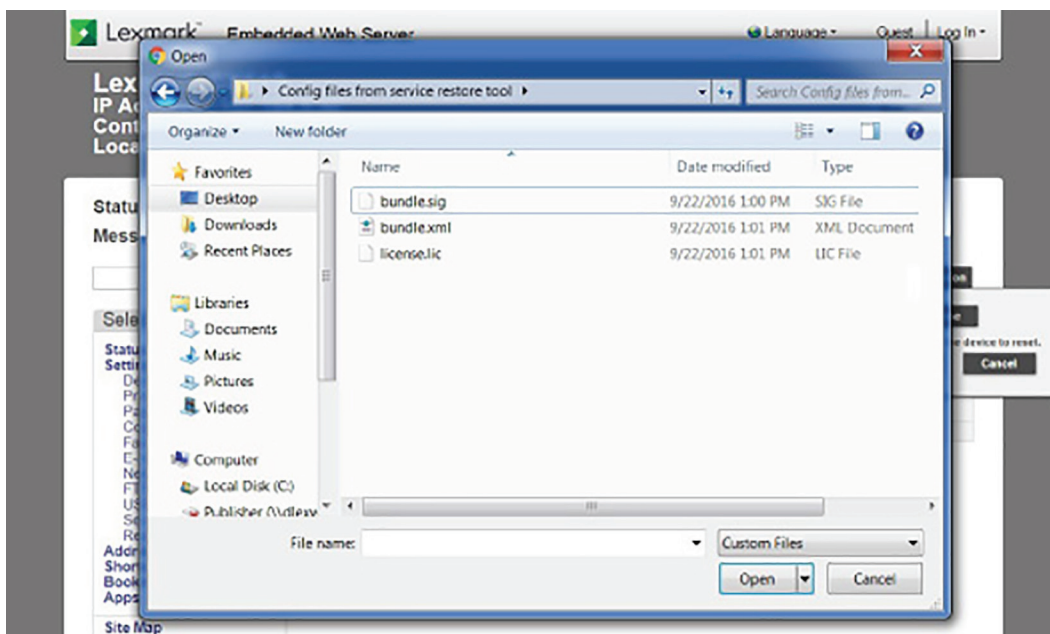
- 1 Open a web browser, and then type the printer IP address.



- 2 Click **Import Configuration**, and then click **Browse**.



- 3 Navigate to the folder where the zip files are extracted from the Service Restore Tool.



- 4 Select the file to import, and then click **Import**.
- 5 Repeat step 2 through to step 4 for the other files that are included in the extracted zip file.

Updating the printer firmware

Warning—Potential Damage: Before updating the printer firmware, ask the next level of support for the correct code. Using an incorrect code level may damage the printer.

The printer must be in ready state in order to update the firmware.

Using a flash drive

This option is available only in printer models with front USB port.

Make sure to enable the Enable Drive and Update Code settings. You can find the settings in the Flash drive menu under the Settings menu.

- 1 Insert the flash drive into the USB port.
- 2 From the home screen, navigate to **USB Menu: Print from USB > Accept** or **OK**.
- 3 Select the file that you need to flash.

Note: Do not turn off the printer while the update is going on.

Using a network computer

Using the File Transfer Protocol (FTP)

Make sure that the printer is in ready state before flashing the printer.

- 1 Turn on the printer.
- 2 Obtain the IP address:
 - From the home screen
 - From the TCP/IP section of the Network/Ports menu
- 3 From the command prompt of a network computer, open an FTP session to the printer IP address.
- 4 Use a PUT command to place the firmware file on the printer.
The printer performs a POR sequence and terminates the FTP session.
- 5 Repeat steps 2 through 4 for the other files.

Using the Embedded Web Server

Make sure that the printer is in ready state before flashing the printer.

- 1 Open a Web browser, and then type the printer IP address.
- 2 From the home page, navigate to **Configuration > Update Firmware**.
- 3 Select the file to use.
The printer performs a POR sequence and terminates the FTP session.
- 4 Repeat steps 2 through 4 for the other files.

Backing up eSF solutions and settings

Note: Export the eSF solutions and settings from the printer before replacing the controller board.

Exporting eSF solutions and settings file

- 1 Reset the printer into Invalid engine mode. See [“Entering invalid engine mode” on page 375](#).
- 2 Open a Web browser, and then type the printer IP address.

Note: If the Web page cannot be accessed or an error occurs when starting the printer into Invalid engine mode, then data backup is not an option. Inform the customer that the data cannot be saved.

- 3 Navigate to **Settings > Solutions > Embedded Solutions**.
- 4 From the Embedded Solutions page, select the applications that you want to export.
- 5 Click **Export**.

Note: The size limit of the export file is 128 KB.

Importing eSF solutions and settings file

After replacing the controller board, import back to the printer the eSF solutions and settings that were exported.

- 1 Reset the printer into Invalid engine mode. See [“Entering invalid engine mode” on page 375](#).
- 2 Open a Web browser, and then type the printer IP address.

Note: If the Web page cannot be accessed or an error occurs when starting the printer into Invalid engine mode, then data backup is not an option. Inform the customer that the data cannot be saved.

- 3 Navigate to **Settings > Solutions > Embedded Solutions**.
- 4 From the Embedded Solutions page, select the applications that you want to import.
- 5 Click **Import**.

Understanding the marked or colored screws

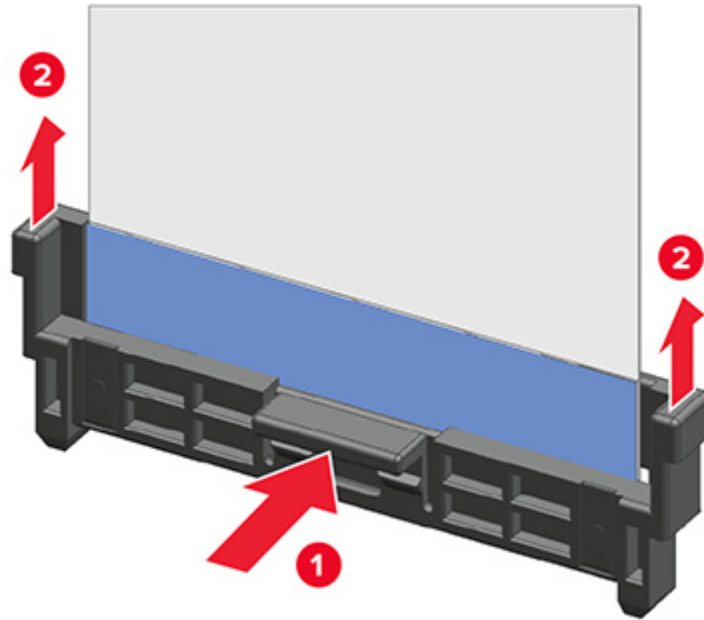
Some parts are secured by screws that are specially marked or colored.

- **Blue or green**—These screws may loosen due to vibrations and loads during use or transport.
- **Red**—These screws secure parts that are difficult to install, adjust, or align. Do not remove or loosen the parts with red screws unless the parts are defective.

Note: In some cases, the part is secured by multiple screws but only one screw is marked in red. This part should not also be removed or loosened unnecessarily.

Disconnecting ribbon cables

Warning—Potential Damage: The ribbon cable and its socket may get damaged if it is not properly disconnected. When disconnecting the cable, hold its connector and press its tab before unplugging it.



Ribbon cable connectors

Zero Insertion Force (ZIF) connectors

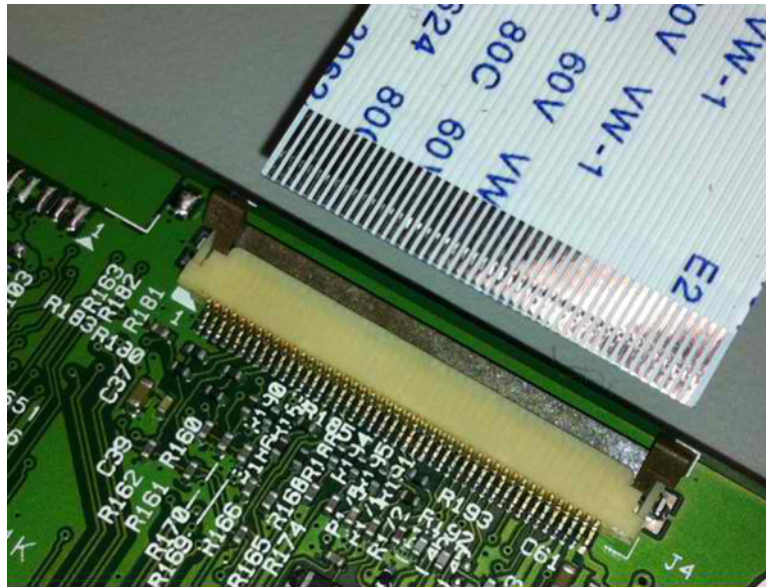
These connectors are used on the boards and cards that are installed in the printer.

To avoid damaging the connectors and their cables, observe the following:

- Do not insert the cables where the contacts are facing the locking actuator.
- Do not insert the cables diagonally into the ZIF socket.
- Avoid using a fingernail or sharp object to open the locking actuator.
- Avoid pressing against the cables when opening the locking actuator.

These are the types of the ZIF connectors that are used in this printer:

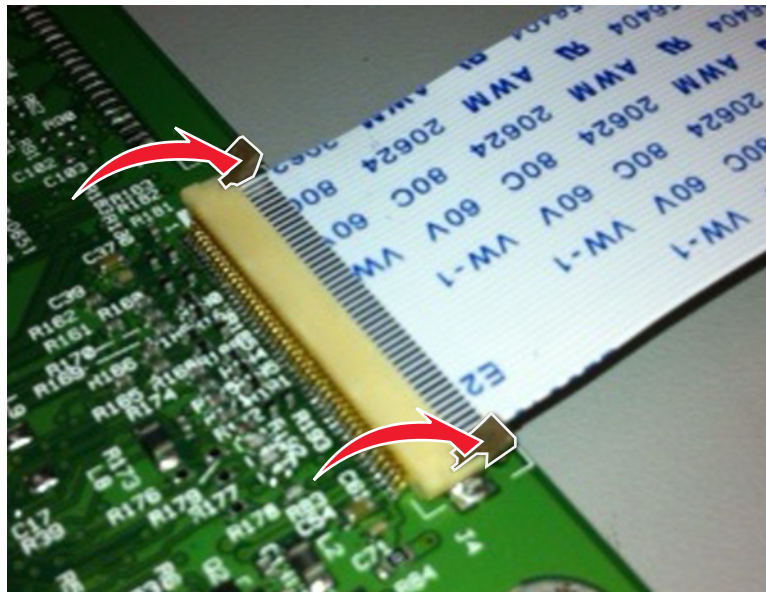
- Horizontal top contact connector
- Horizontal bottom contact connector
- Vertical mount contact connector
- Horizontal sliding connector



2 Rotate the locking actuator to the locked position.

Notes:

- Do not move the cable while locking the actuator.
- If the cable moves, open the actuator, reposition the cable, and then close the actuator.



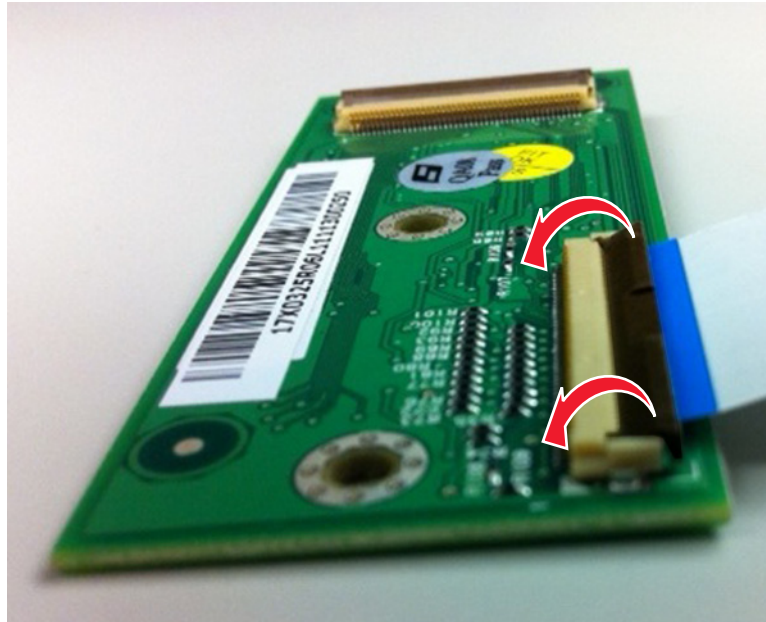
Horizontal bottom contact connector

This connector uses a flip locking actuator to lock the ribbon cable into the ZIF connector.

Warning—Potential Damage: When opening or closing this type of actuator, gently lift the center of the actuator using your finger. Do not use a fingernail or screwdriver to open the actuator to avoid damaging the ribbon cable. Do not close the actuator from its ends.

Removing the cable

- 1 Unlock the actuator.



- 2 Remove the cable.

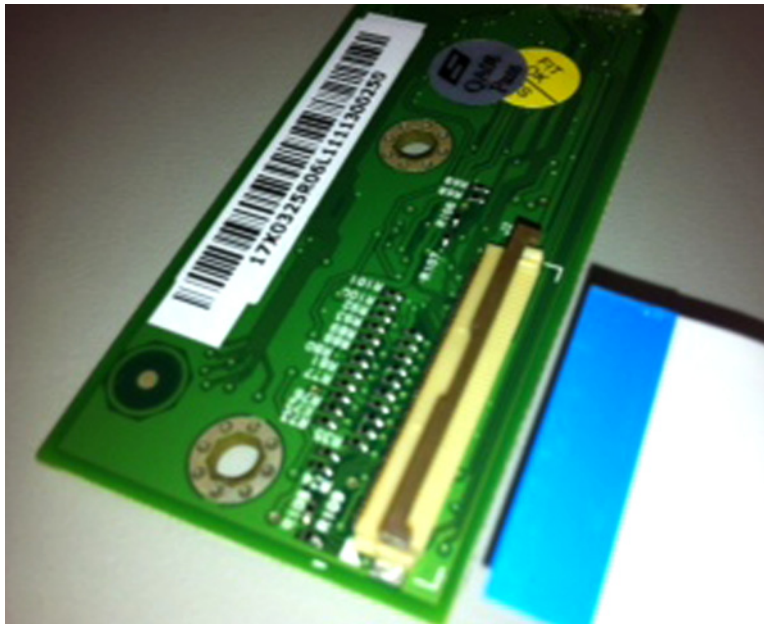
Inserting the cable

- 1 Make sure that the actuator is in the open position.

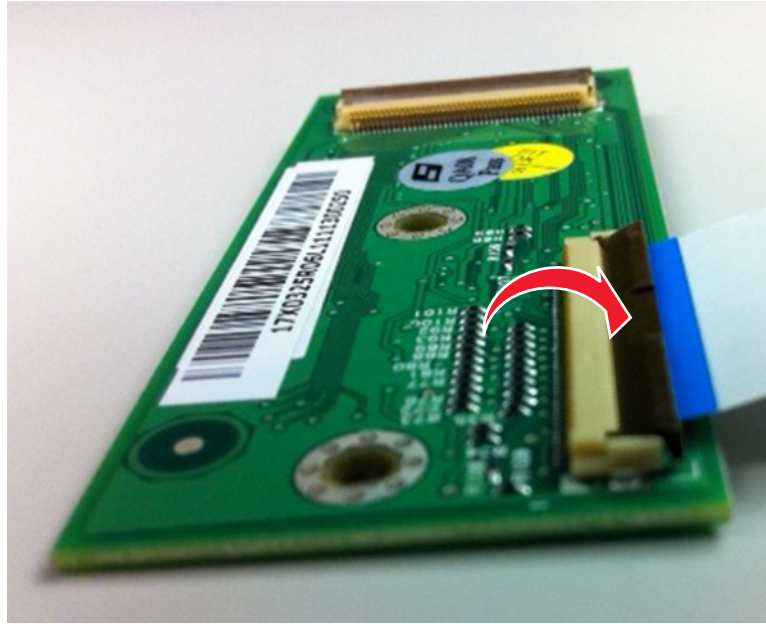


- 2 Insert the cable below the actuator with the contacts facing downward and away from the locking actuator.

Note: Make sure that the cable is installed squarely into the connector to avoid intermittent failures.



- 3 Rotate the locking actuator to the locked position.



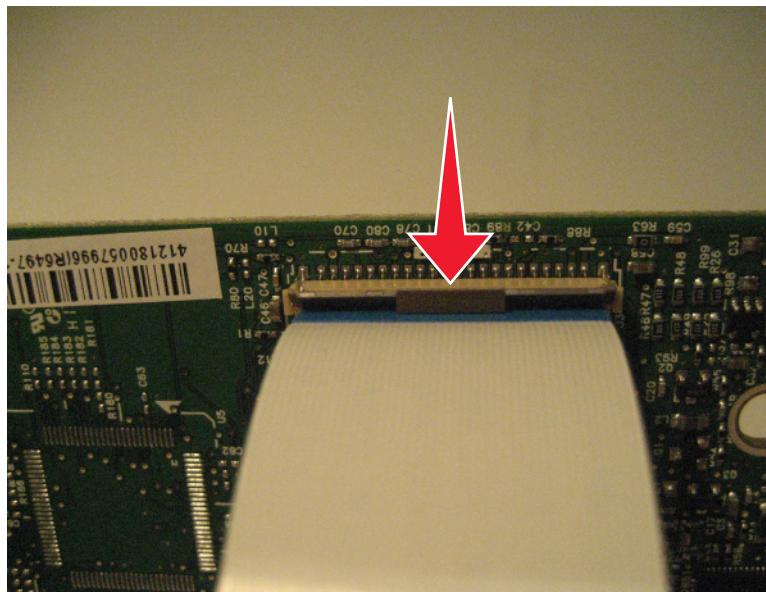
Vertical mount contact connector

This connector uses a back flip locking actuator to lock the ribbon cable into the ZIF connector.

Warning—Potential Damage: When opening or closing this type of actuator, gently lift the center of the actuator using your finger. Do not use a fingernail or screwdriver to open the actuator to avoid damaging the ribbon cable. Do not close the actuator from its ends.

Removing the cable

- 1 Rotate the locking actuator from the center of the actuator to the unlocked position.



- 2 Remove the cable.

Inserting the cable

- 1 Make sure that the locking actuator is in the open position.



- 2 Insert the cable on top of the actuator with the contacts facing away from the locking actuator.

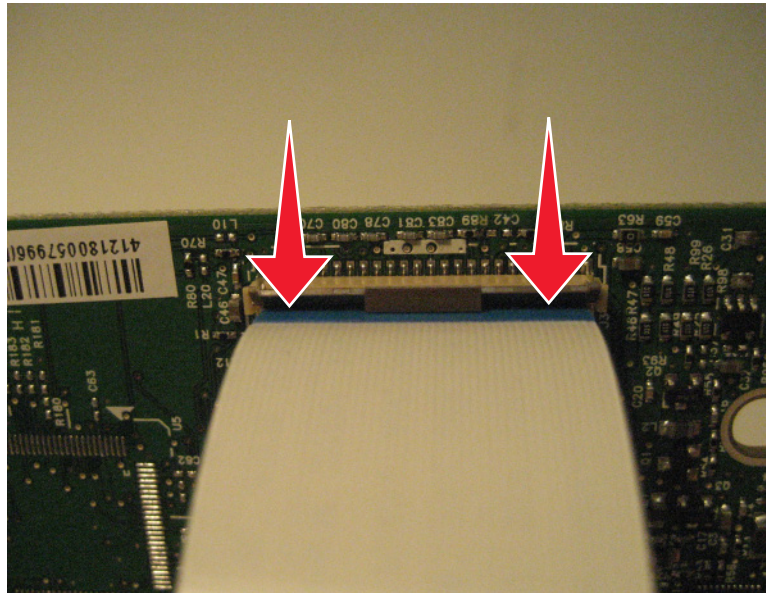
Note: Make sure that the cable is installed squarely into the connector to avoid intermittent failures.



- 3 Rotate the locking actuator to the locked position.

Notes:

- Do not move the cable while locking the actuator.
- If the cable moves, open the actuator, reposition the cable, and then close the actuator.



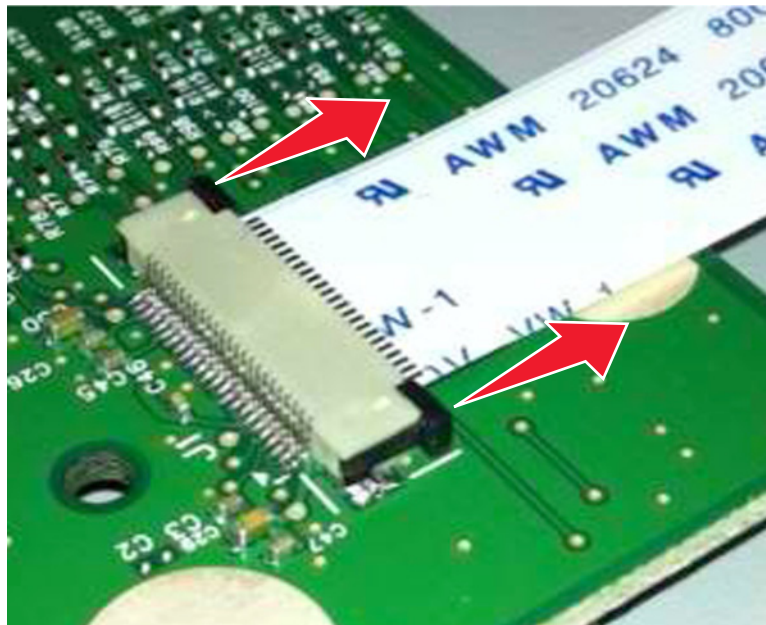
Horizontal sliding contact connector

This connector uses a slide locking actuator to lock the ribbon cable into the ZIF connector.

Warning—Potential Damage: When opening or closing this type of actuator, gently push or pull the two tabs located on each end of the actuator. Do not close the actuator from the center of the actuator. Do not use a screwdriver to open or close the actuator to avoid damage to the cable or connector.

Removing the cable

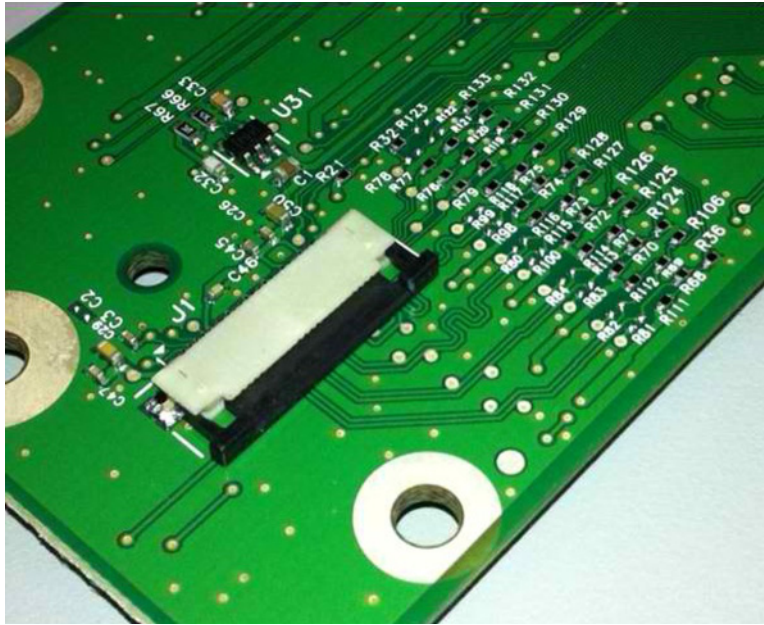
- 1 Slide the tabs away from the connector.



- 2 Remove the cable.

Inserting the cable

- 1 Make sure that the locking actuator is in the open position. If you are opening the connector, then pull back the end tabs using equal force to avoid breaking the connector.



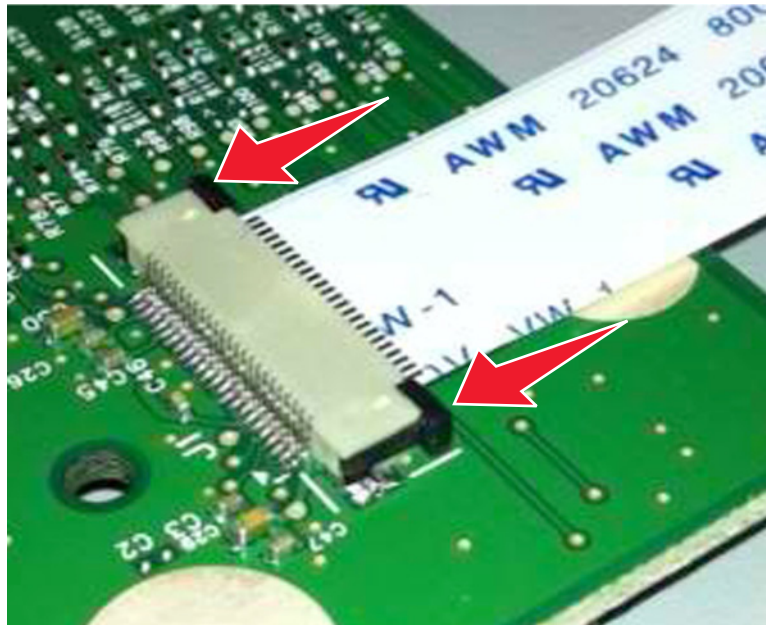
- 2 Insert the cable on top of the actuator with the contacts facing away from the locking actuator.



- 3 Slide the locking actuator toward the connector to lock the cable.

Notes:

- Do not move the cable while locking the actuator.
- If the cable moves, open the actuator, reposition the cable, and then close the actuator.

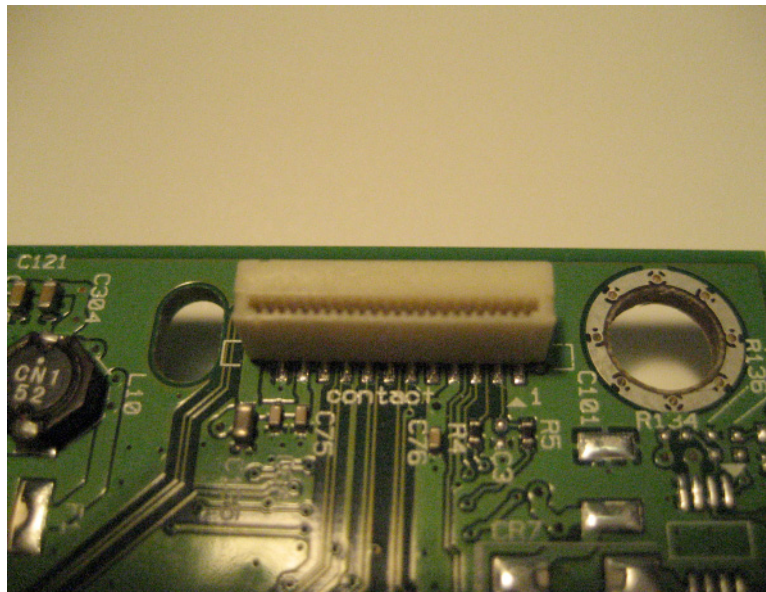


Low Insertion Force (LIF) connector

Warning—Potential Damage: When installing a cable into an LIF connector, avoid bending the edges of the cables and damaging the contacts on the cables.

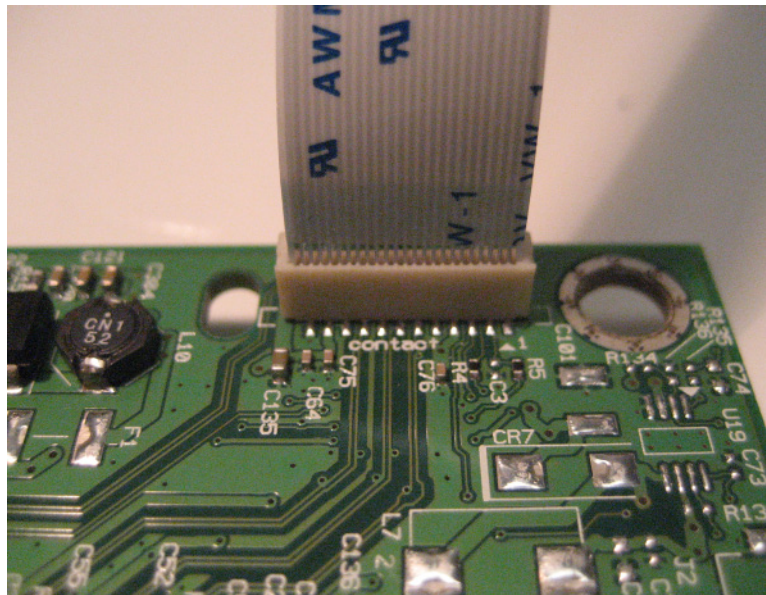
Inserting the cable

- 1 Make sure that the contacts of the controller board and connectors are on the same side.



- 2 Insert the cable.

Note: Make sure that the cable is installed straight into the connector to avoid intermittent failures.

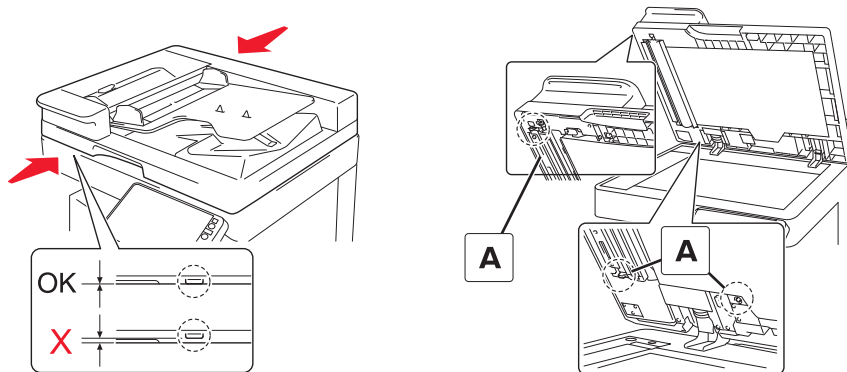


Adjustments

ADF height adjustment

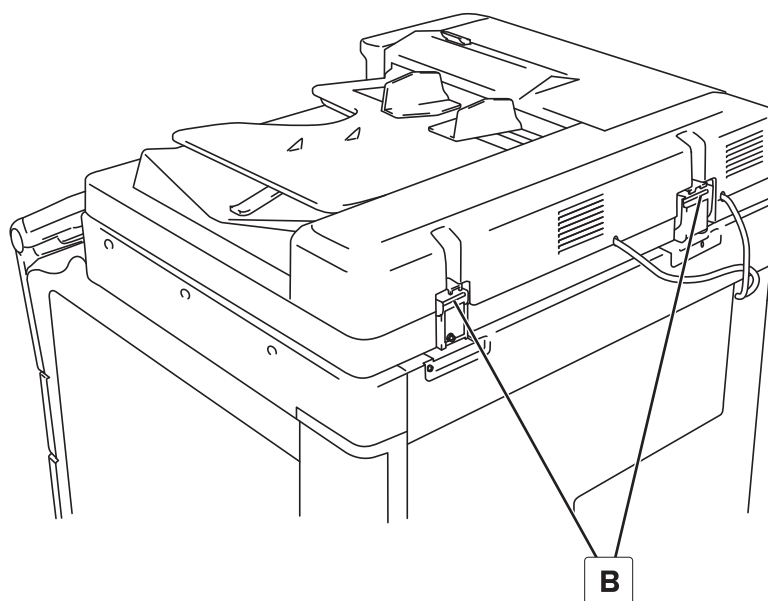
Jams may occur when clearance between the ADF and flatbed scanner is too low. Image quality issues may also occur when the clearance is too high. Perform this step to correct the clearance between the ADF and flatbed scanner or when replacing the ADF assembly.

- 1 Check the clearance between the flatbed scanner and the protrusions (A) on the ADF side.



Note: Make sure that the protrusion on the ADF and flatbed scanner has no clearance.

- 2 If clearance is found, turn the two adjustment screws (B) clockwise or counterclockwise to lift or lower the rear side.



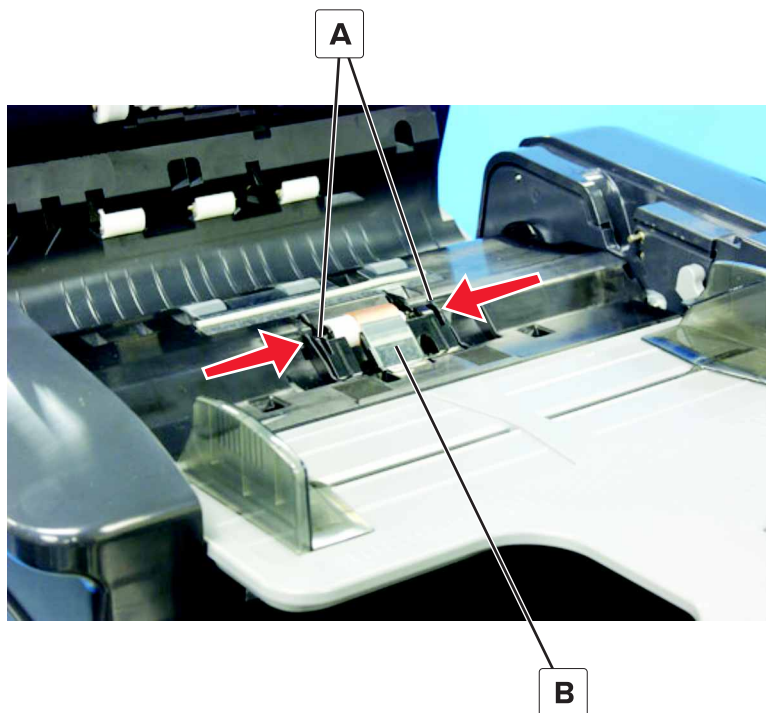
ADF registration adjustment

- 1 Enter the Configuration Menu, and then navigate to:
Scanner Manual Registration > Print Quick Test
- 2 Place the Quick Tests page on the ADF and then select **Copy Quick Test**.
Do this step to view the current ADF registration values.
- 3 Select from the following options:
 - **ADF**—This setting adjusts the ADF registration of a simplex scanner.
 - **ADF Front**—This setting adjusts the ADF front side registration of a duplex scanner.
 - **ADF Back**—This setting adjusts the ADF back side registration of a duplex scanner.
 The current values of the horizontal adjust and top margin registration settings appear.
- 4 Adjust the value of the horizontal adjust and top margin settings.
- 5 Apply the changes.
- 6 Repeat step 2 to view the updated values.
- 7 Repeat steps 3 through 5 to make further adjustments.

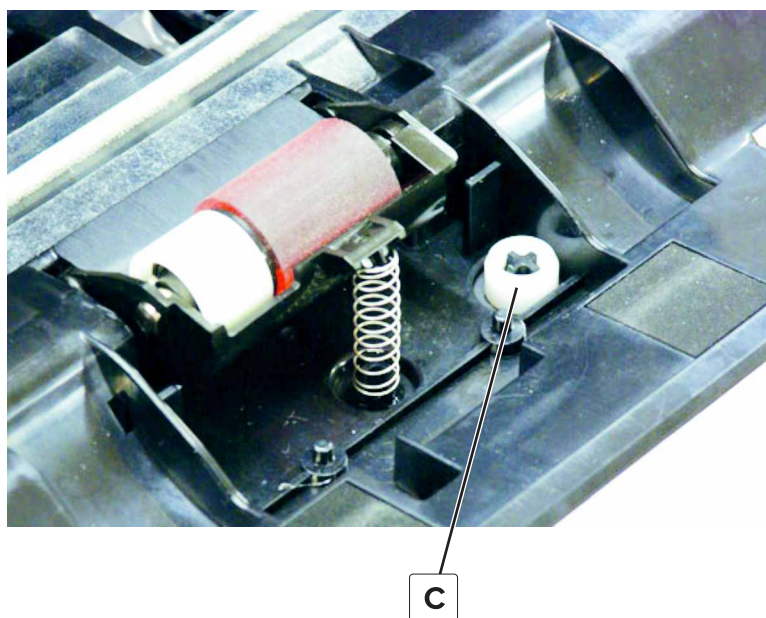
ADF separator roller pressure adjustment

Jams may occur if the improper level of pressure is applied in feeding thin paper. Perform this step to increase or decrease the ADF separator roller pressure.

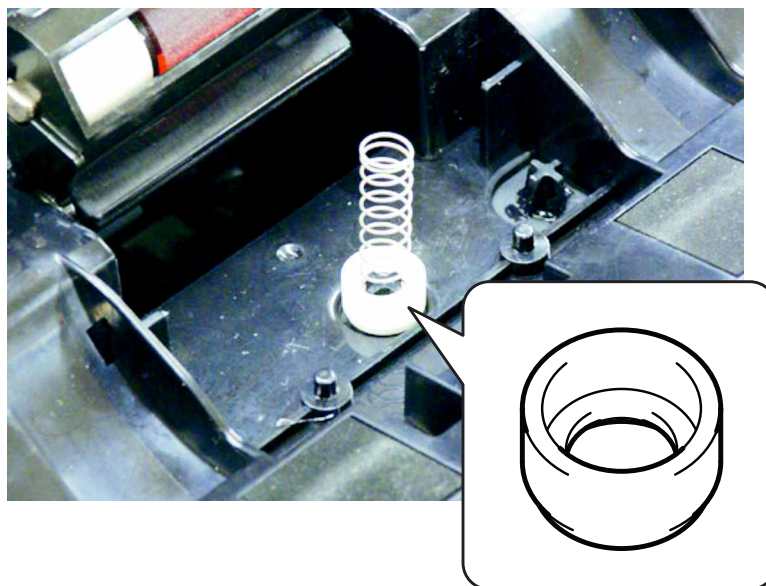
- 1 Open the ADF top cover.
- 2 Grip both sides of the ADF separator pad (A), and then remove the cover (B).



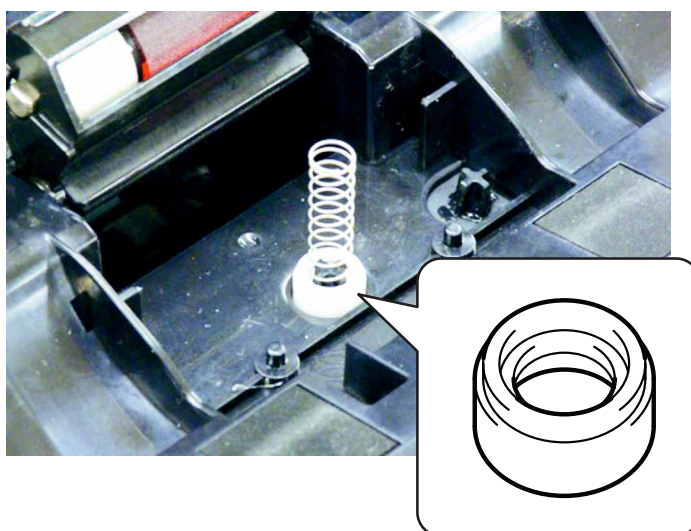
- 3 Remove the spacer (C).



- 4 Set the spacer on the lower part of the spring with its deeper groove facing up.



- 5 If the spring force is not enough, set the spacer on the lower part of the spring with its shallow groove facing up.



Flatbed registration adjustment

- 1 Enter the Configuration Menu, and then navigate to:
Scanner Manual Registration > Print Quick Test
- 2 Remove all the pages from the ADF, place the Quick Test page on the flatbed, and then select **Copy Quick Test**.

Do this step to view the current flatbed registration values.

3 Select **Flatbed**.

The current values of the left margin and right margin registration settings appear.

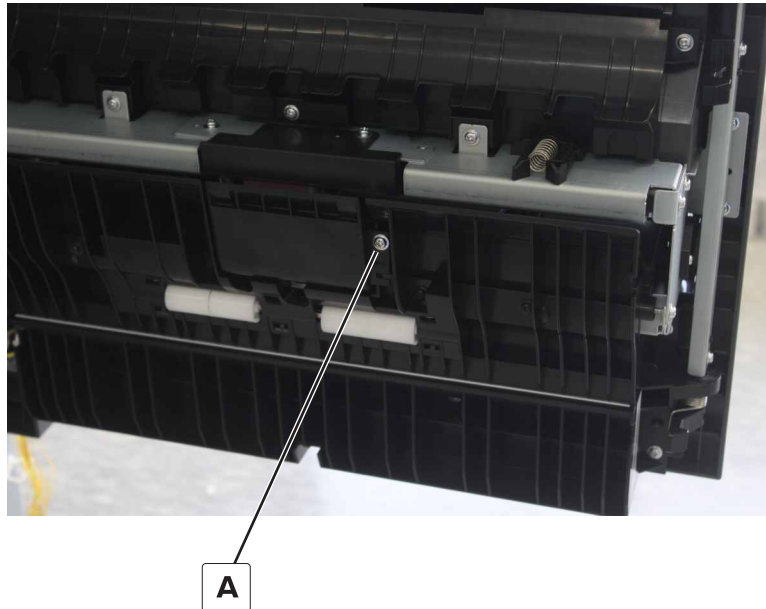
4 Adjust the left and right margins.**5** Apply the changes.**6** Repeat step 2 to view the updated values.**7** Repeat steps 3 through 5 to make further adjustments.

MPF separator roller pressure adjustment

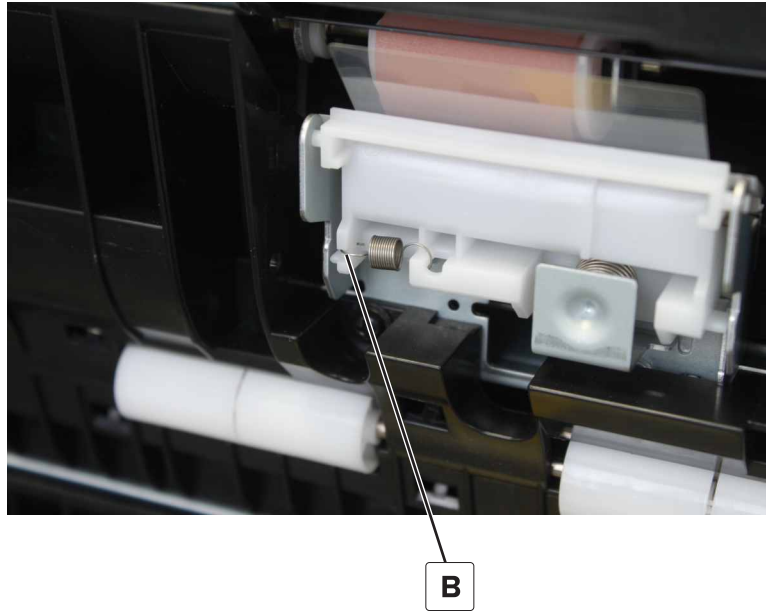
Jams may occur if the improper level of pressure is applied in picking thick paper from the MPF tray. Perform this procedure to adjust the separator roller pressure.

1 Open the right door, remove the screw (A), and then remove the cover.

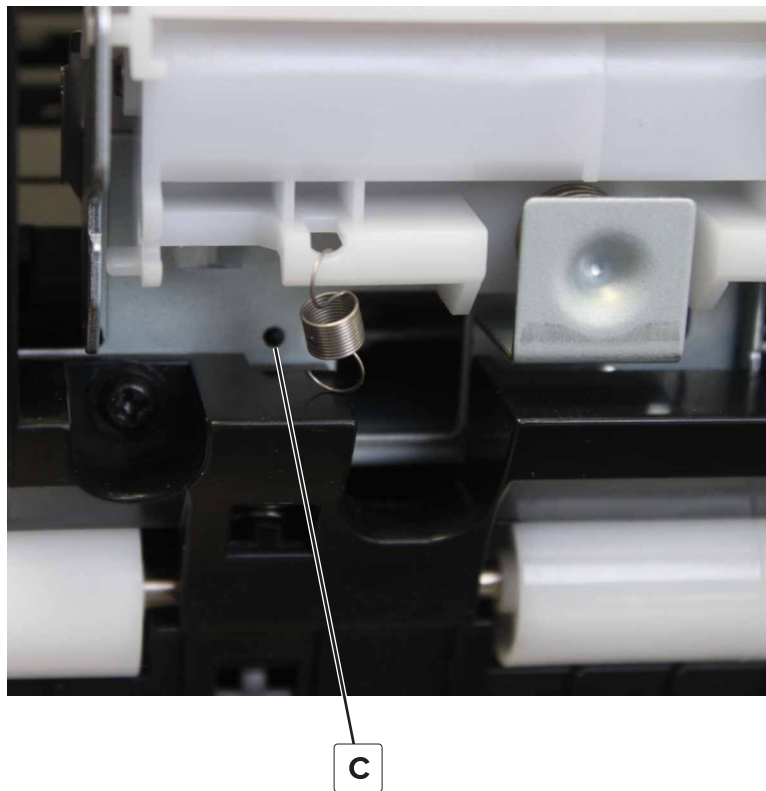
CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.



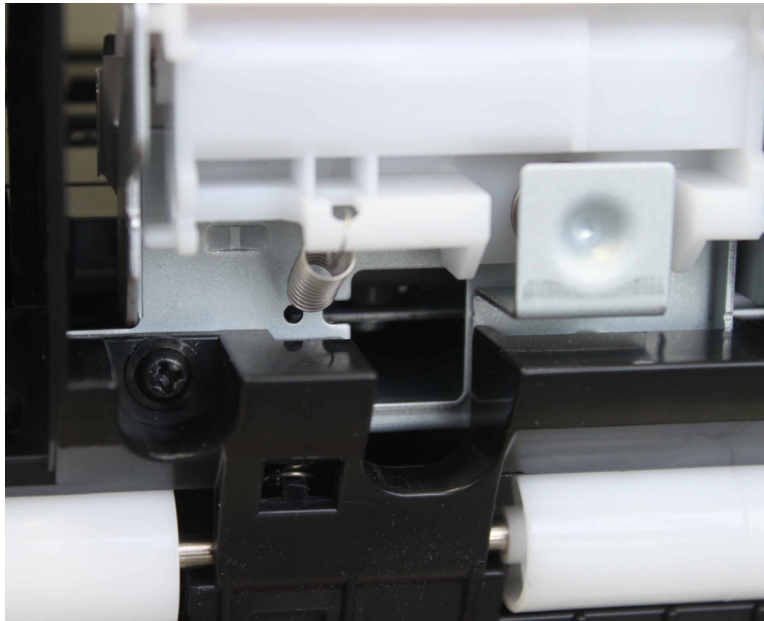
2 Release the hook (B).



3 Attach the hook to the hole (C).



Note: The correct position is shown in the following illustration.



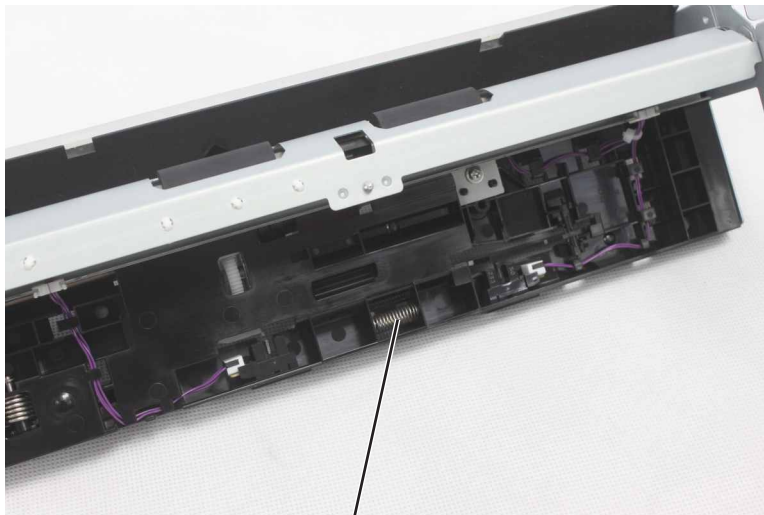
- 4 Perform a print job to verify the adjustment.

Pick roller pressure adjustment

Jams may occur if the improper level of pressure is applied in picking thin paper. Perform this step to increase or decrease the pick roller pressure.

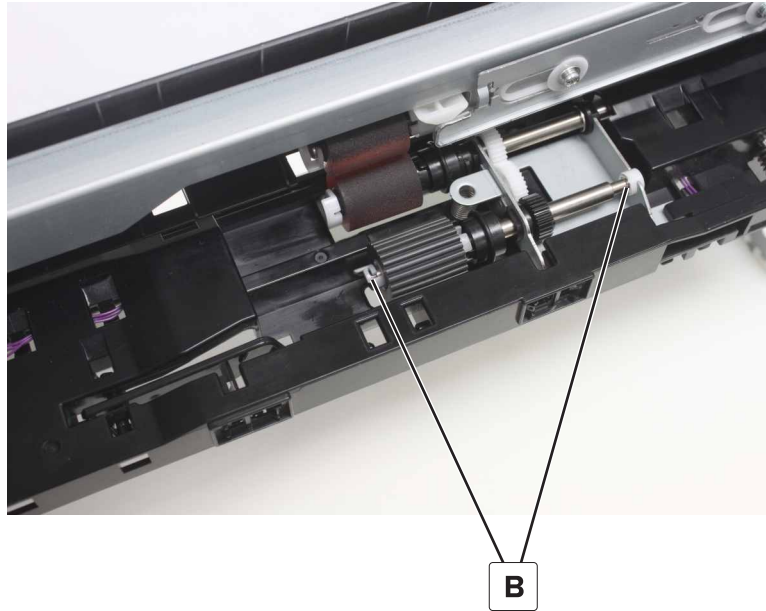
- 1 Remove the tray 1 and 2 paper feed unit.
- 2 Remove the replacement spring (A).

Note: This spring must have higher or lower tension than the spring it replaces.

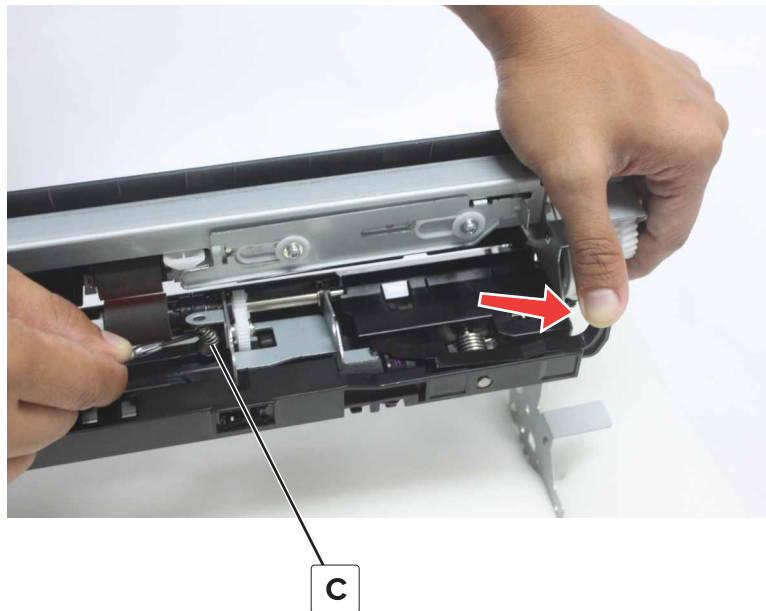


A

- 3** Release the clips (B), and then remove the pick tire, bushing, and shaft.



- 4** Press the lever, remove the spring (C), and then install the replacement spring from step 2.

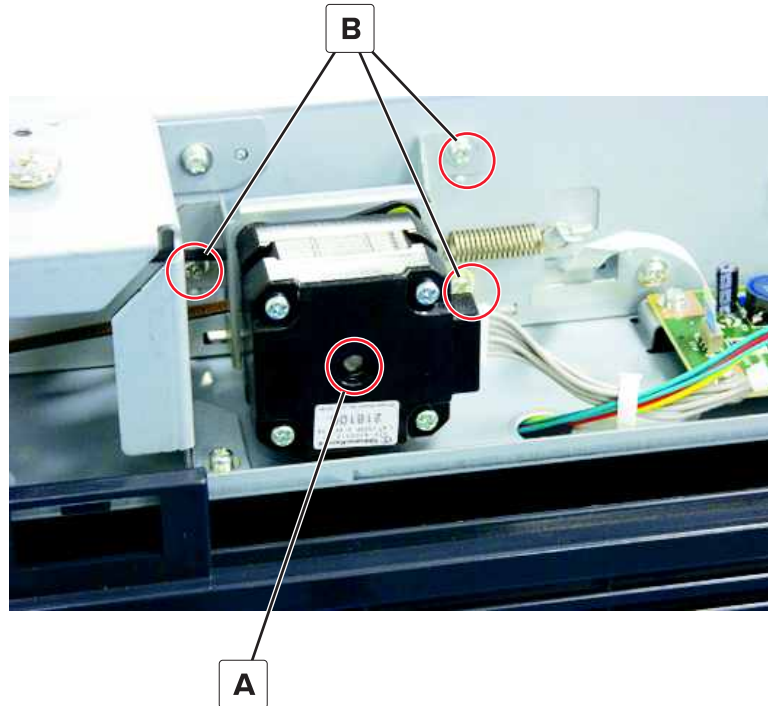


- 5** Perform a print job to verify the adjustment.

Scanner carriage belt adjustment

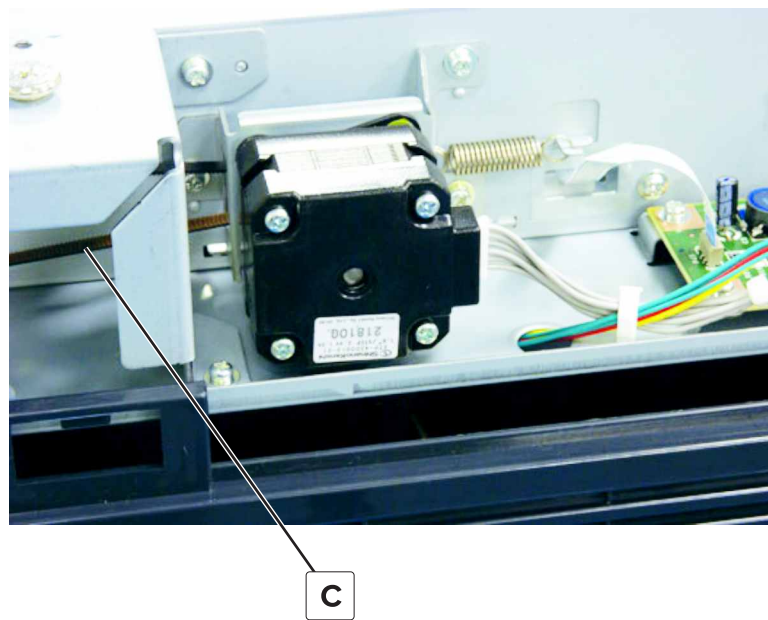
Loose scanner carriage belt may affect the scan speed of the scanner lamp and cause scan quality issues. Perform this step to correct the scanner drive belt tension or after replacing the motor (scanner drive).

- 1 Attach the spring to the motor (scanner drive) (A), and then temporarily secure the motor with three screws (B).



Note: Do not fully tighten the screws.

- 2 Attach the scanner carriage belt (C).



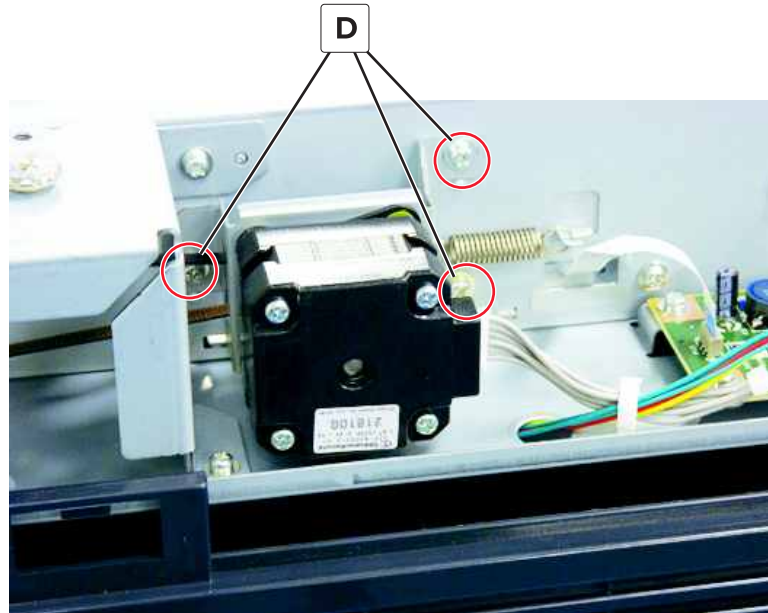
Parts removal

Notes:

- Make sure that the belt tension is not too loose or too tight.
- Make sure that the drive belt is kept tight by the spring.

3 Turn the drive gear.

4 Tighten the three screws (D).



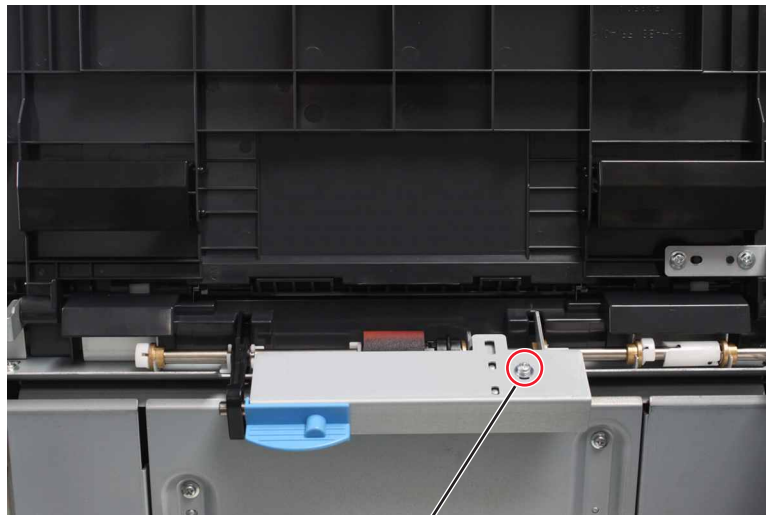
Note: Make sure that the belt tension is not too loose or too tight.

3000-sheet tray pick roller pressure adjustment

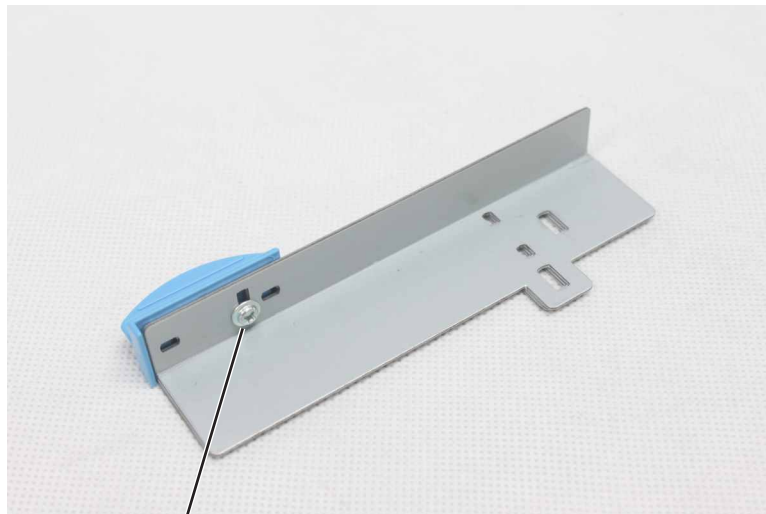
Jams may occur if the improper level of pressure is applied when picking thin paper. Perform this procedure to increase the pick roller pressure.

1 Remove the screw (A), and then remove the plates.

Installation note: Replace this screw with an M3 x 10 mm screw.

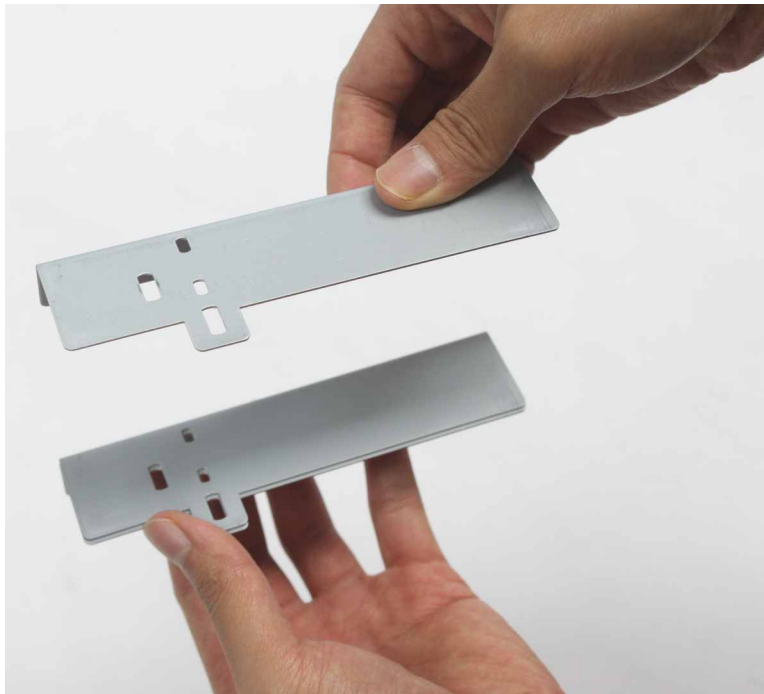
**A**

2 Remove the screw (B), and then remove the handle.

**B**

3 Add one or more plates.

Note: A total of four plates can be installed.

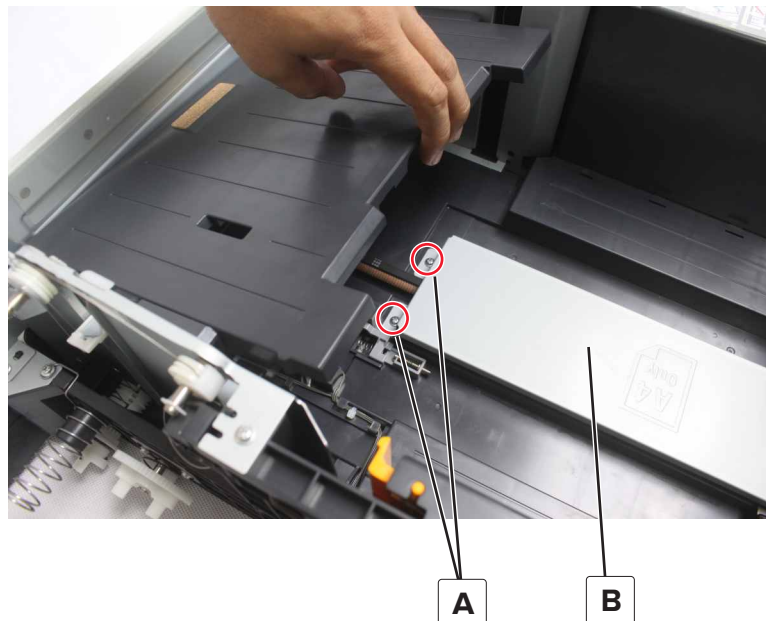


- 4 Perform a print job to verify the adjustment.

2500-sheet tray transfer guide belt adjustment

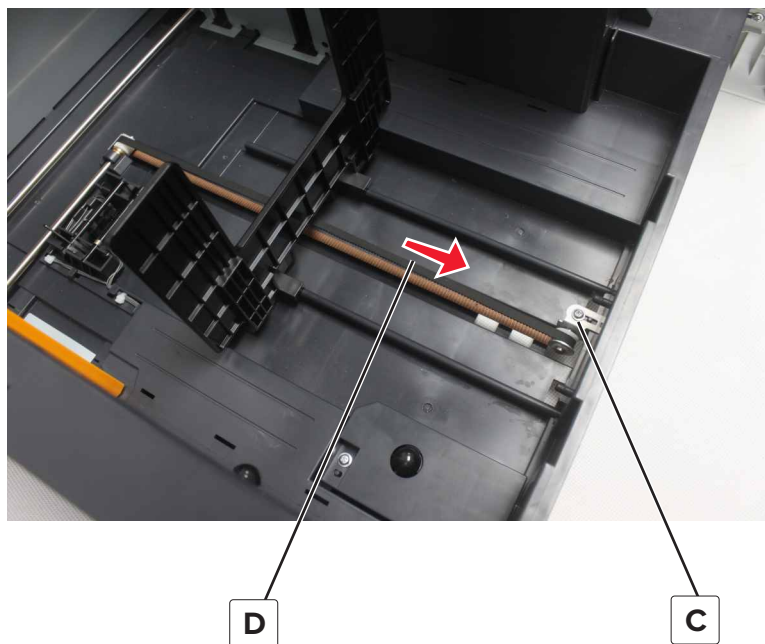
A loose transfer guide belt may cause paper stack transfer failure. Perform this step to correct the transfer guide belt tension.

- 1 Remove the tray insert.
- 2 Raise the main tray.
- 3 Remove the two screws (A), and then remove the belt cover (B).



Parts removal

- 4 Move the paper stack transfer guide.
- 5 Loosen the tension screw (C), and then move the belt (D) to adjust.



- 6 Retighten the tension screw.

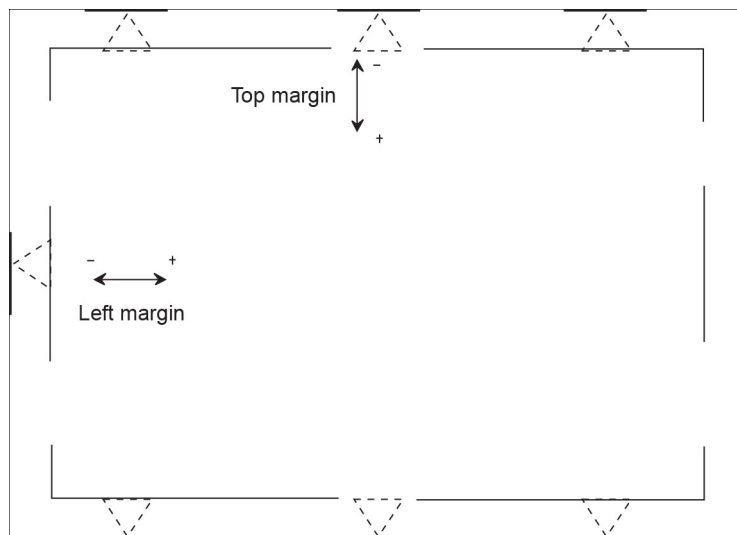
Registration adjustment

Image misalignment may occur after printhead replacement. Perform the following procedure to correct the position of the image relative to the paper edges.

Generating a test page for margin alignment

- 1 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Registration adjust
- 2 Select a tray, and then navigate to:
Quick test > Start

The following test page is generated.



Adjusting the margins

Check if the tips of the arrows touch the edges of the test page.

If the tip of an arrow does not touch the edge, then do the following:

- 1 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Registration adjust
- 2 Select a tray, and then select the margin to adjust.
- 3 Generate another test page and check the margin alignment.
- 4 If the problem remains, then repeat steps 1 through 3.

Color registration adjustment

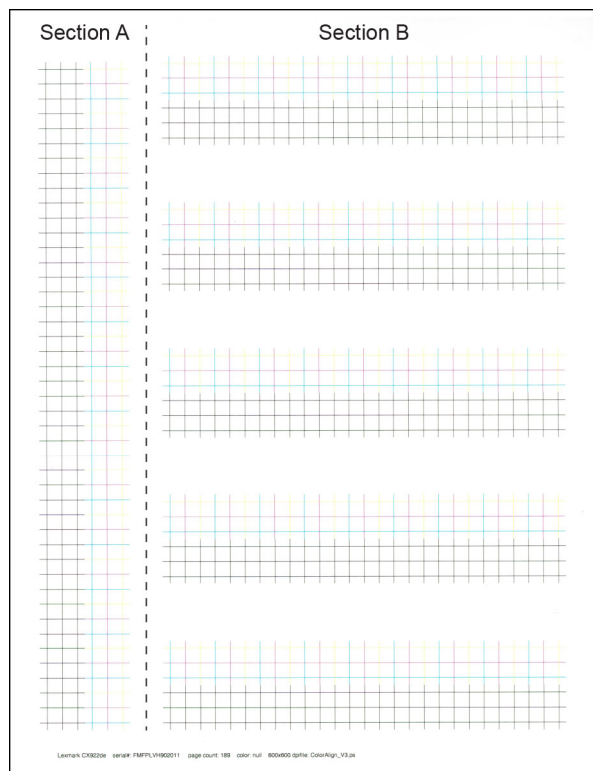
Color misalignment may cause blurred print. Perform the following procedure to align the colors.

Generating a test page for color alignment

Note: Load paper with the long edge entering the printer first.

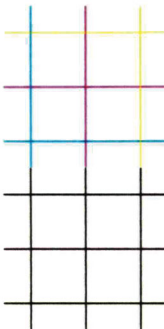

- 1 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Color registration adjustment
- 2 Select a color, and then navigate to:
Quick test > Start

The following test page is generated.



Adjusting the lines

Check if all the lines in the test page are aligned.

| Aligned | Not aligned |
|---|--|
| <p data-bbox="435 285 521 306">Section A</p>  <p data-bbox="435 590 521 611">Section B</p>  | <p data-bbox="1101 285 1187 306">Section A</p>  <p data-bbox="1101 590 1187 611">Section B</p>  |

If a line is not aligned, then do the following:

- 1 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Color registration adjustment
- 2 Select the color of the misaligned line.
- 3 Select the margin that corresponds to the section of the line to adjust.
 - Top margin (all paper type) for section A
 - Left margin (plain paper) for section B
- 4 Generate another test page and check the color alignment.
- 5 If the problem remains, then repeat steps 1 through 4.

Imaging process adjustment

Changes in temperature or humidity in the printer may cause problems to the imaging process. Perform the following procedures to fix the imaging issues.

Image stabilization

Perform the following procedure to correct misalignment or tilt in the images.

- 1 Print sample pages. See [“Advanced Print Quality Samples” on page 351](#).
- 2 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Imaging process adjustment > Image stabilization > Initialize + image stabilization > Start
- 3 Repeat step 1.
- 4 If the problem remains, then repeat steps 2 through 3.

Paper separation adjustment

Perform the following procedure to avoid paper jams and cracks near the top of the print image when doing a two-sided printing.

- 1 Print sample pages. See [“Advanced Print Quality Samples” on page 351](#).
- 2 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Imaging process adjustment > Paper separation adjustment
- 3 Adjust the value for each side of the paper.
- 4 Perform image stabilization. See [“Image stabilization” on page 413](#).
- 5 Repeat step 1.
- 6 If the problem remains, then repeat steps 2 through 5.

Black density adjustment

Perform the following procedure to adjust the density of the black print image.

- 1 Print sample pages. See [“Advanced Print Quality Samples” on page 351](#).
- 2 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Imaging process adjustment > Black density adjustment
- 3 Adjust the density.
- 4 Perform image stabilization. See [“Image stabilization” on page 413](#).
- 5 Repeat step 1.
- 6 If the problem remains, then repeat steps 2 through 5.

Voltage adjust

Perform the following procedure to avoid paper jams when printing on nonrecommended paper.

- 1 Print sample pages. See [“Advanced Print Quality Samples” on page 351](#).
- 2 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Imaging process adjustment > Voltage adjust
- 3 Adjust the voltage for each side of the paper.
- 4 Perform image stabilization. See [“Image stabilization” on page 413](#).
- 5 Repeat step 1.
- 6 If the problem remains, then repeat steps 2 through 5.

Transfer voltage fine adjustment

Perform the following procedure to eliminate white spots or cracks near the edge of the yellow parts of the print image.

- 1 Print sample pages. See [“Advanced Print Quality Samples” on page 351](#).
- 2 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Imaging process adjustment > Transfer voltage fine adjustment
- 3 Adjust the voltage for each color.
- 4 Perform image stabilization. See [“Image stabilization” on page 413](#).
- 5 Repeat step 1.
- 6 If the problem remains, then repeat steps 2 through 5.

Second transfer adjustment

Perform the following procedure to eliminate roughness in the blue and green parts or white specks in the black parts of the print image.

- 1 Print sample pages. See [“Advanced Print Quality Samples” on page 351](#).
- 2 Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Imaging process adjustment > Second transfer adjustment
- 3 Adjust the voltage for each paper type.
- 4 Perform image stabilization. See [“Image stabilization” on page 413](#).
- 5 Repeat step 1.
- 6 If the problem remains, then repeat steps 2 through 5.

Removal procedures

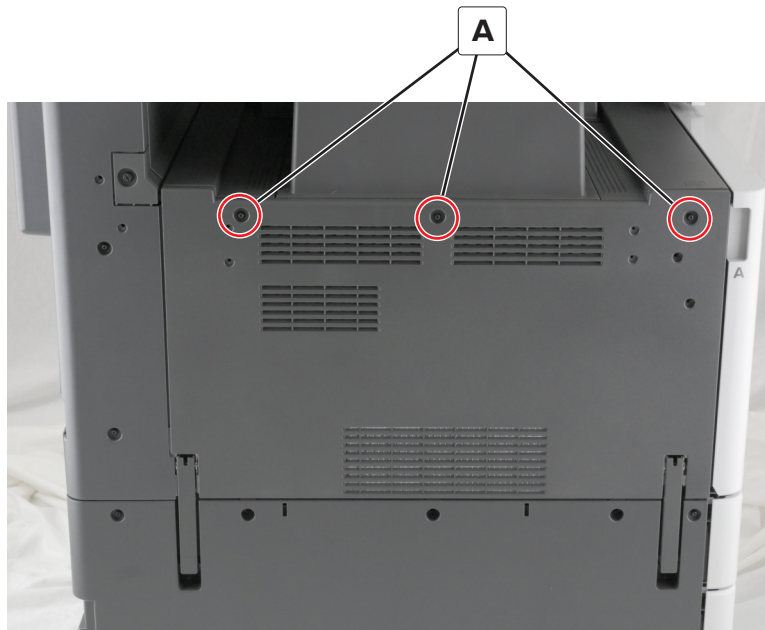
When replacing printer parts, consider the following:

- Some removal procedures require removing cable ties. Replace cable ties during reassembly to avoid pinching wires, obstructing the paper path, or restricting mechanical movement.
- Remove the toner cartridges, developer units, photoconductor units, and trays before removing other printer parts.
- Place the imaging or photoconductor unit on a clean, smooth, and flat surface. Do not expose the photoconductor drum to light.
- Disconnect all external cables from the printer to prevent possible damage during service.
- Unless otherwise stated, reinstall the parts in reverse order of removal.
- When reinstalling a part held by several screws, start all screws before the final tightening.

Left side removals

Left cover removal

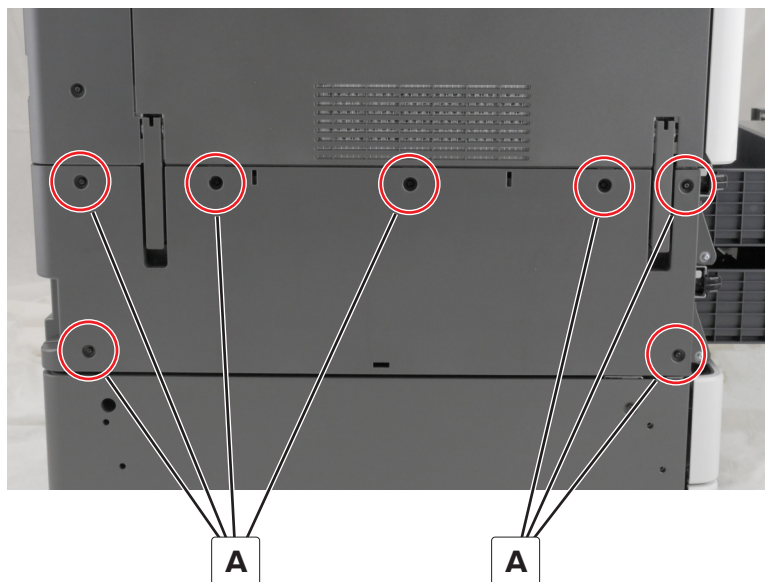
- 1 Remove the three screws (A).



- 2 Remove the cover.

Bottom left cover removal

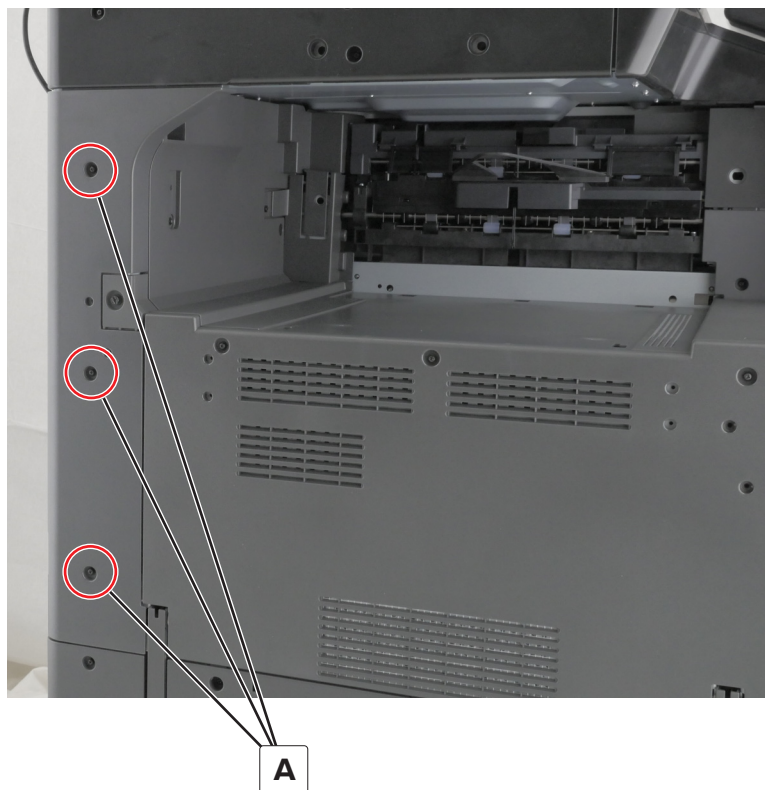
- 1 Remove the seven screws (A).



- 2 Remove the cover.

Rear left cover removal

- 1 Remove the three screws (A).

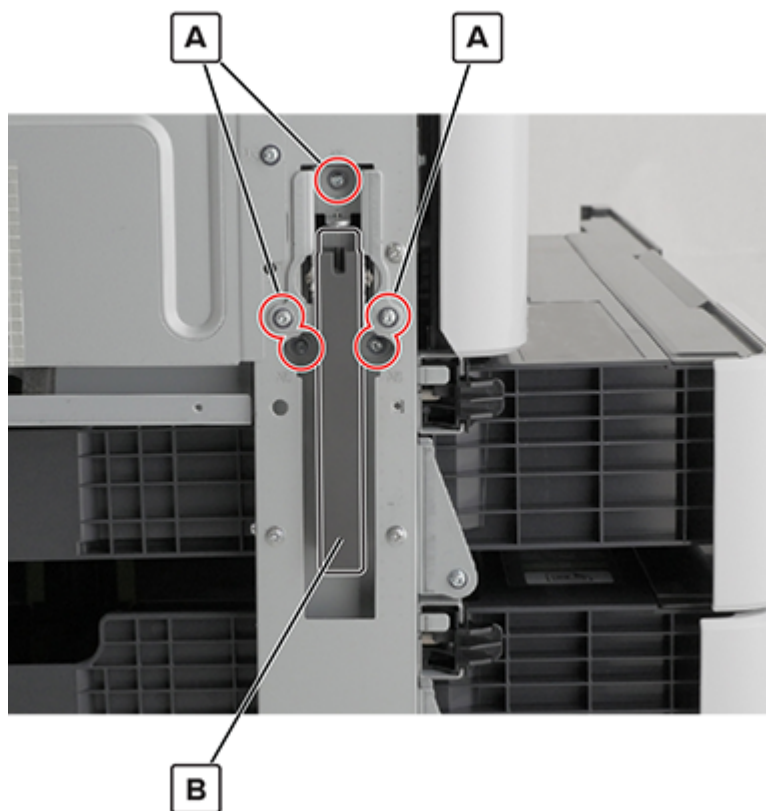


Parts removal

- 2 Remove the cover.

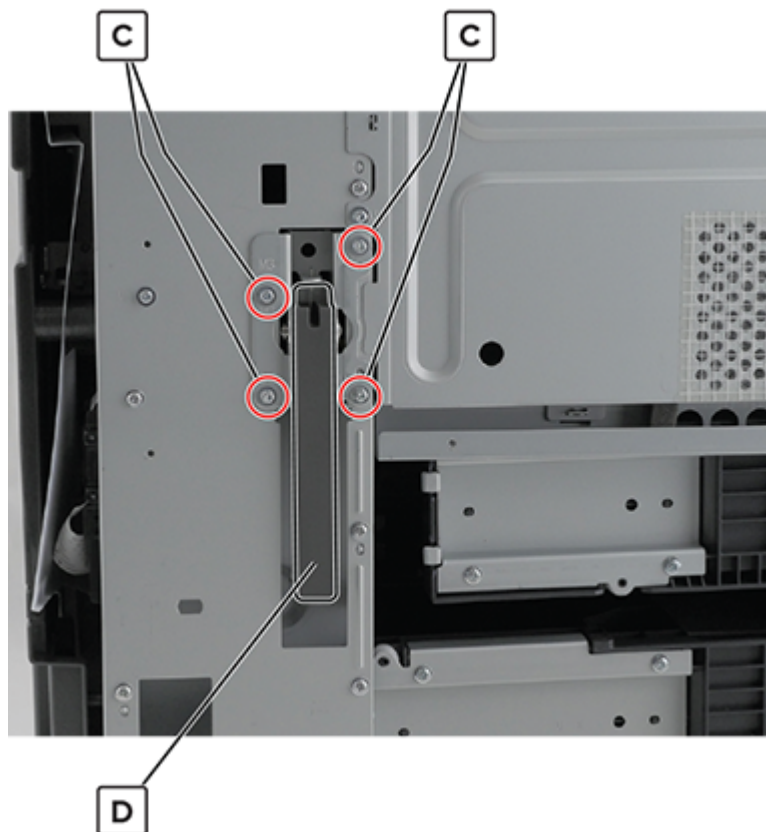
Left handles removal

- 1 Remove the left cover. See [“Left cover removal” on page 415](#).
- 2 Remove the bottom left cover. See [“Bottom left cover removal” on page 416](#).
- 3 Remove the five screws (A), and then remove the handle (B).



- 4 Remove the rear left cover. See [“Rear left cover removal” on page 416](#).

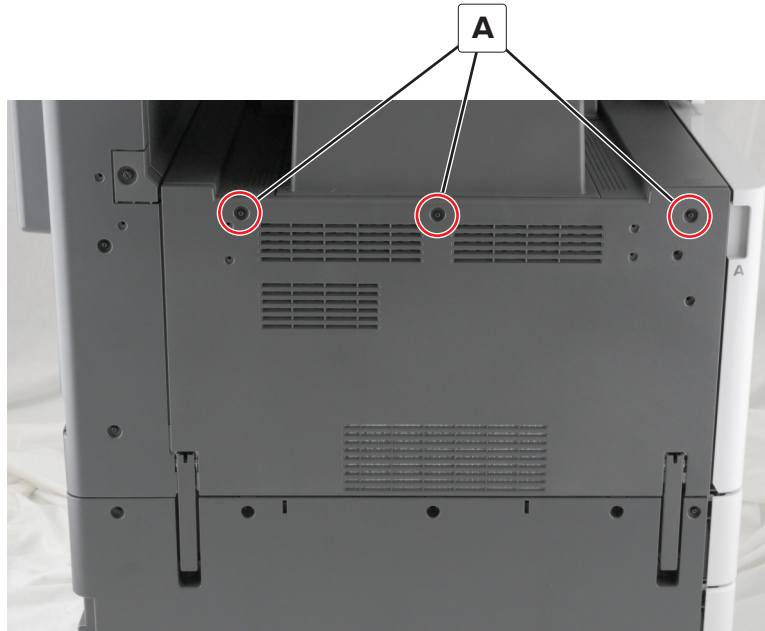
- 5** Remove the four screws (C), and then remove the handle (D).



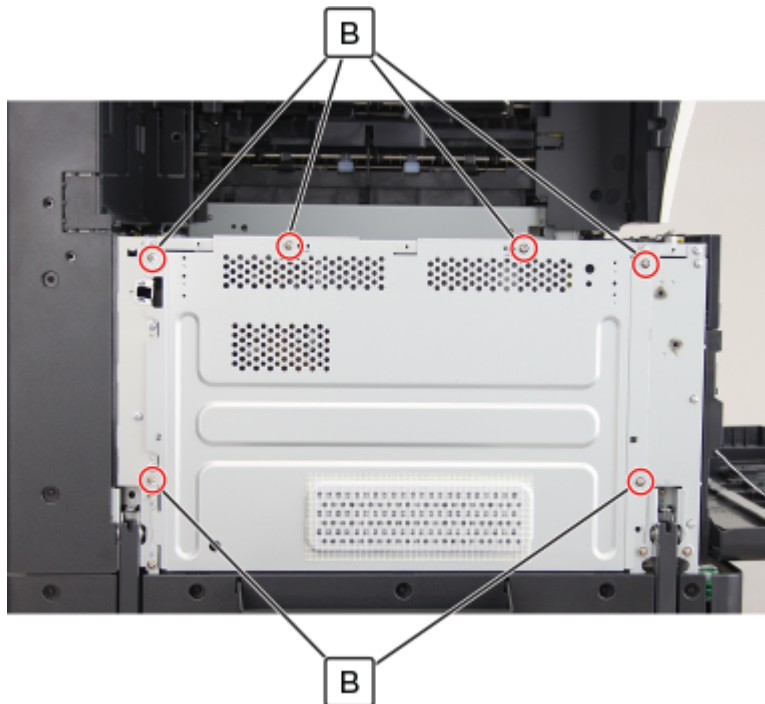
Main power supply shield removal

Note: This is not a FRU.

- 1 Remove the three screws (A), and then remove the left cover and the standard bin base.

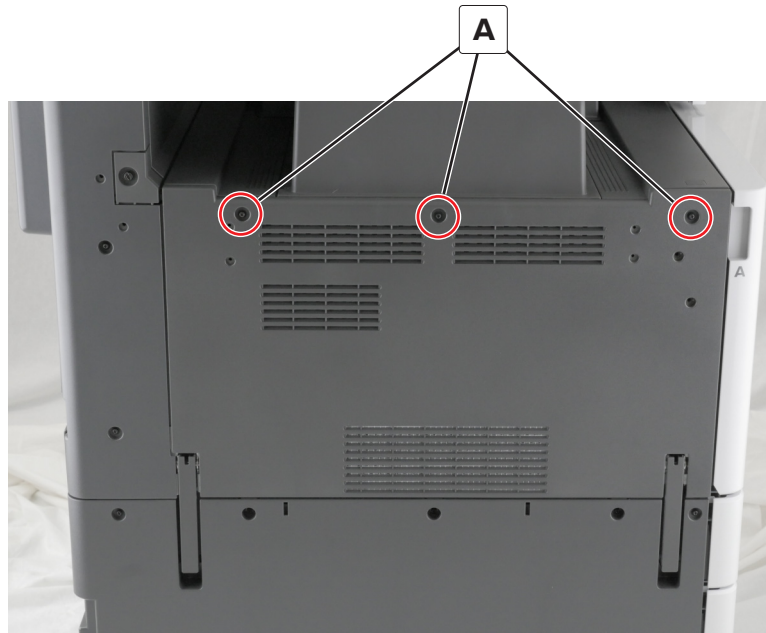


- 2 Remove the six screws (B), and then remove the shield.

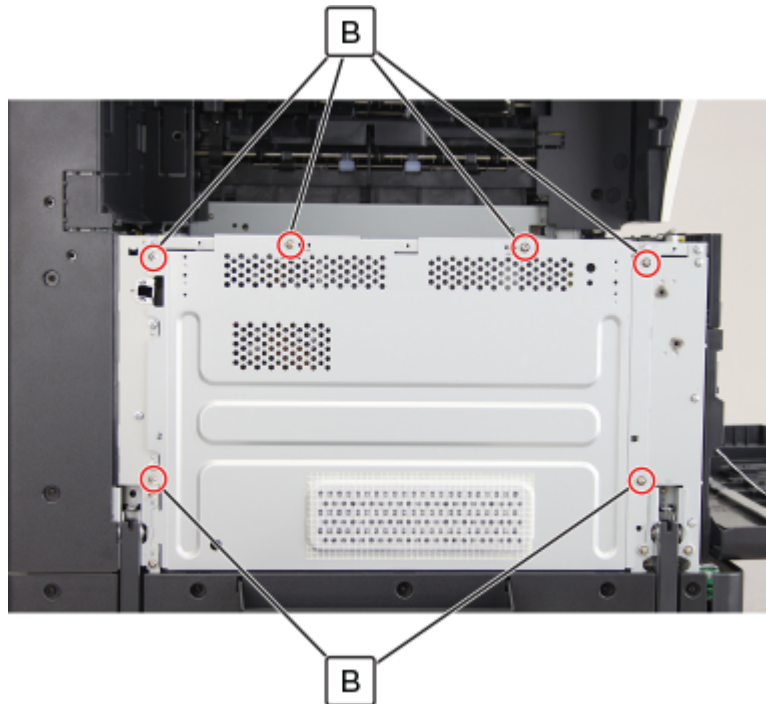


Main power supply fan removal

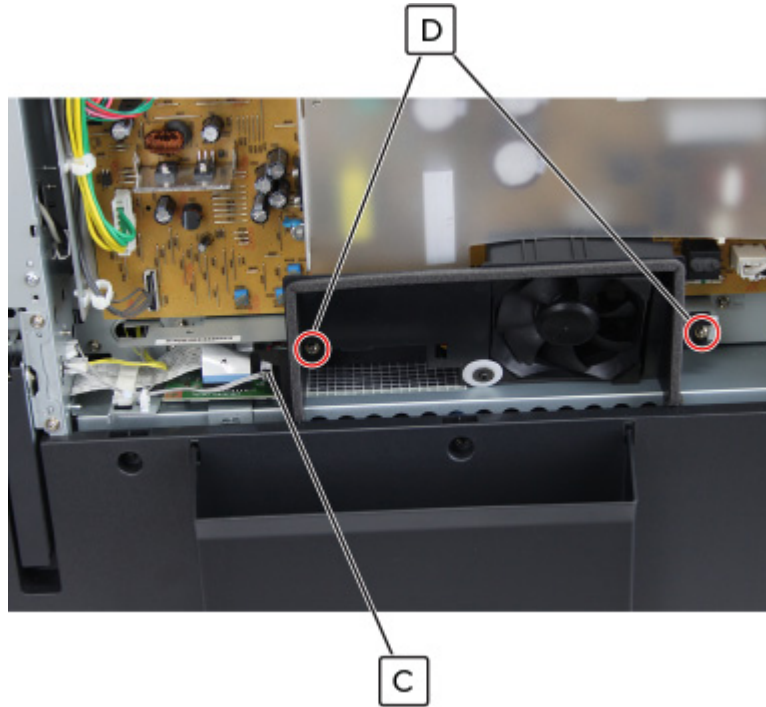
- 1 Remove the three screws (A), and then remove the left cover and the standard bin base.



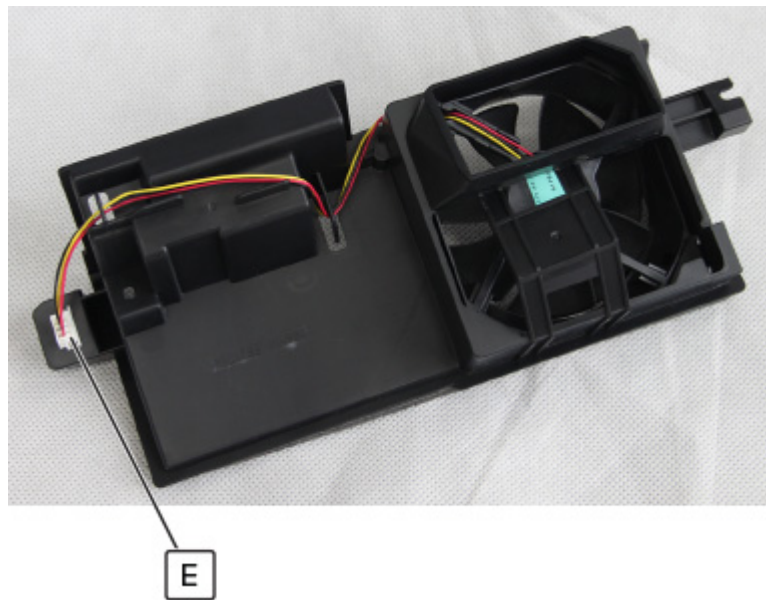
- 2 Remove the six screws (B), and then remove the cage.



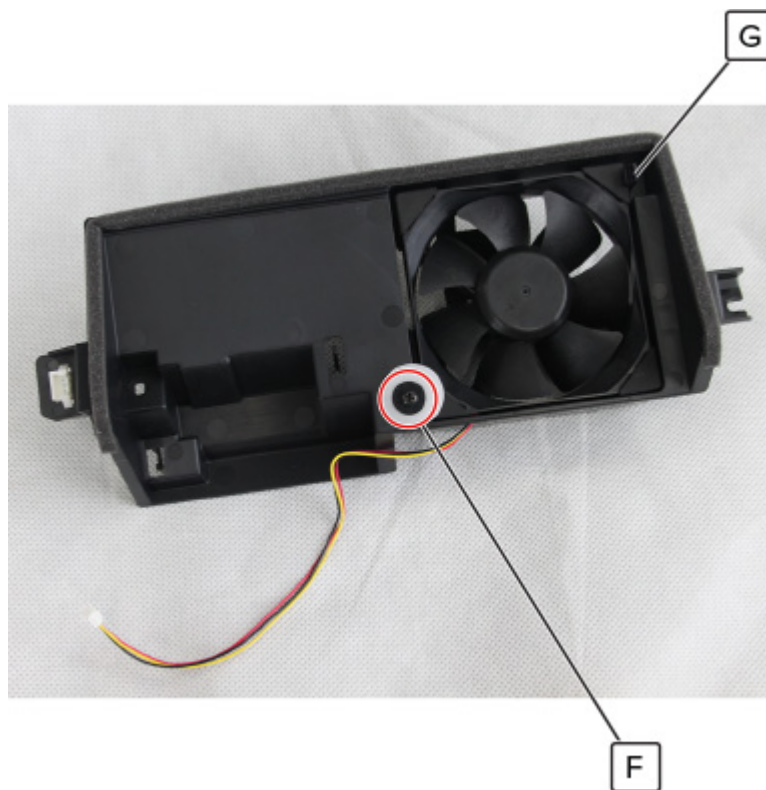
- 3** Disconnect the cable (C), remove the two screws (D), and then remove the power supply fan duct.



- 4** Disconnect the cable (E).



- 5** Remove the screw (F), release the latch (G), and then remove the fan.



- 6 Remove the four corner dampers (H) from the fan.

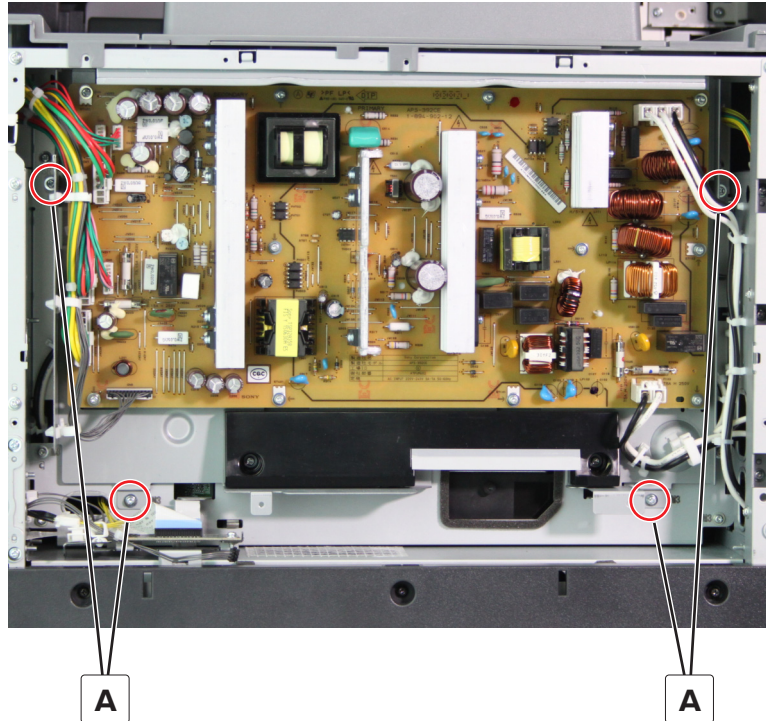


Main power supply removal

CAUTION—SHOCK HAZARD: The main power supply may have residual voltage present. To avoid the risk of electrical shock, do not touch its circuit components. Only handle it by its housing.

- 1 Remove the left cover. See [“Left cover removal” on page 415.](#)
- 2 Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 3 Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 4 Remove the power supply fan duct. See [“Main power supply fan removal” on page 420.](#)

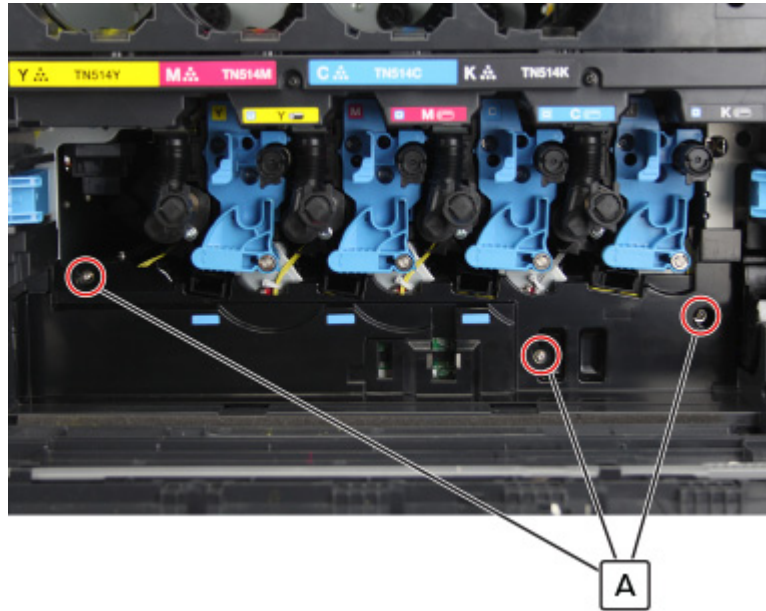
- 5 Remove the four screws (A), and then remove the board bracket.



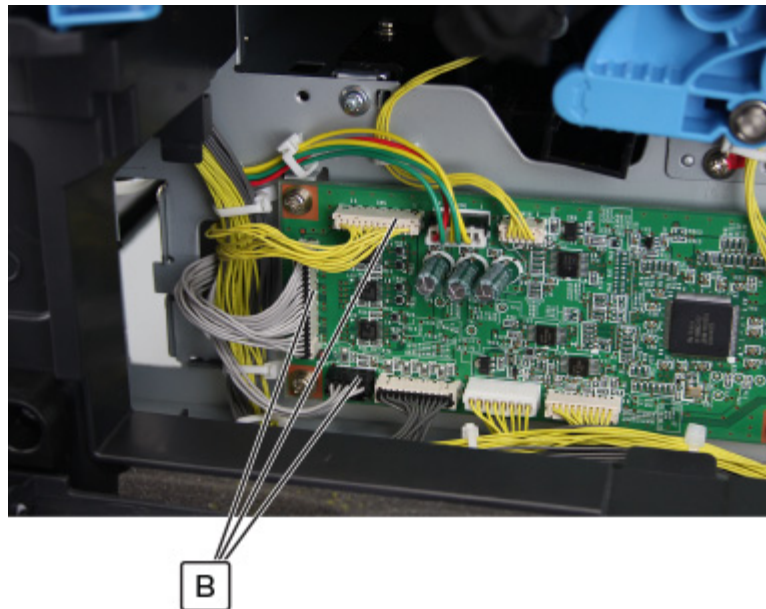
Printhead removal

- 1 Remove the left cover. See [“Left cover removal” on page 415.](#)
- 2 Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 3 Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 4 Remove the power supply fan duct. See [“Main power supply fan removal” on page 420.](#)
- 5 Remove the power supply board bracket. See [“Main power supply removal” on page 423.](#)

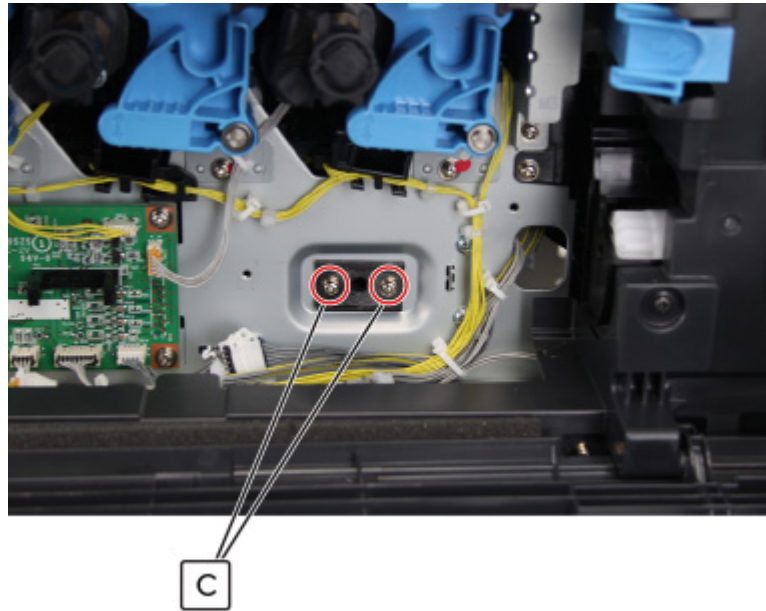
- 6** Remove the three screws (A), and then remove the front inner cover.



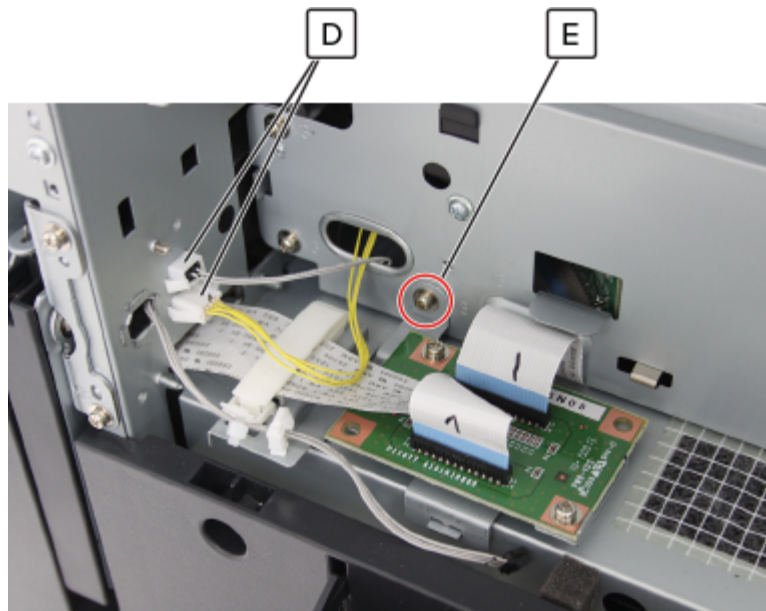
- 7** Disconnect the cables (B).



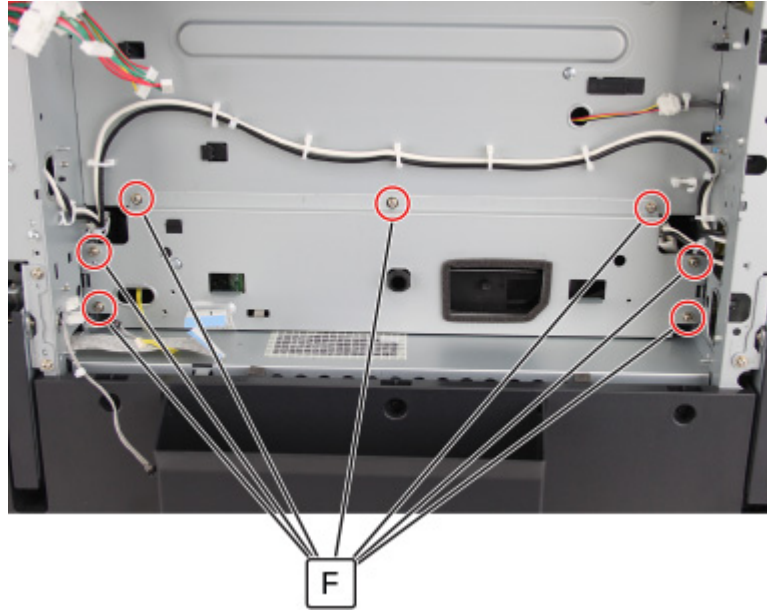
8 Remove the two screws (C).



9 Disconnect the two cables (D), and then remove the screw (E).



- 10** Remove the seven screws (F), and then remove the bracket.



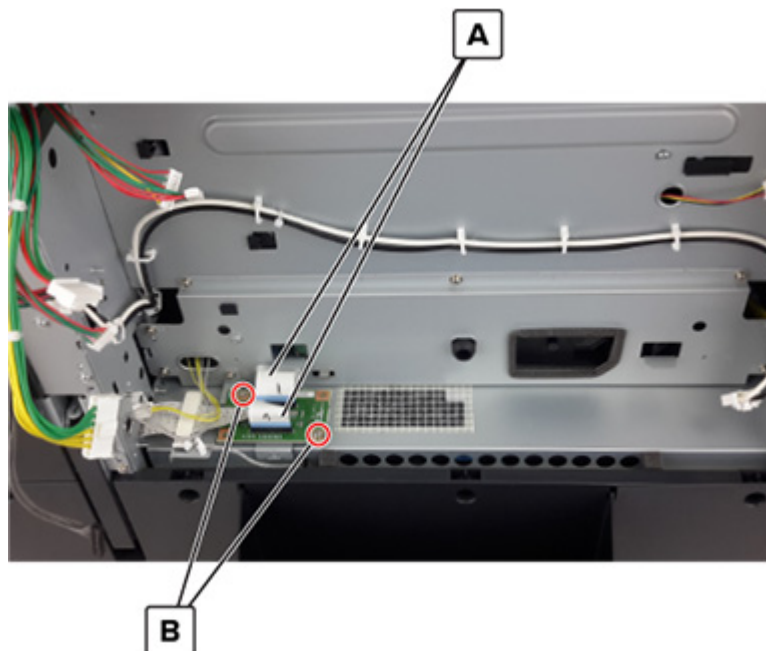
- 11** Disconnect the two cables (G), and then remove the printhead.



Printhead relay board removal

- 1** Remove the left cover. See [“Left cover removal” on page 415.](#)
- 2** Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 3** Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 4** Remove the power supply fan duct. See [“Main power supply fan removal” on page 420.](#)
- 5** Remove the power supply board bracket. See [“Main power supply removal” on page 423.](#)

- 6 Disconnect the two cables (A), and then remove the two screws (B).



- 7 Remove the board.

Right side removals

Transfer roller removal

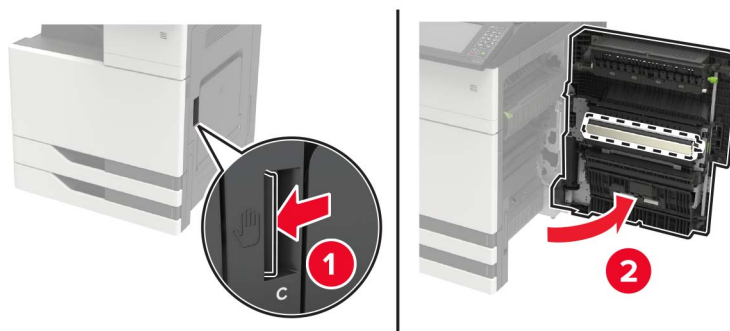
- 1 Open door C.

Notes:

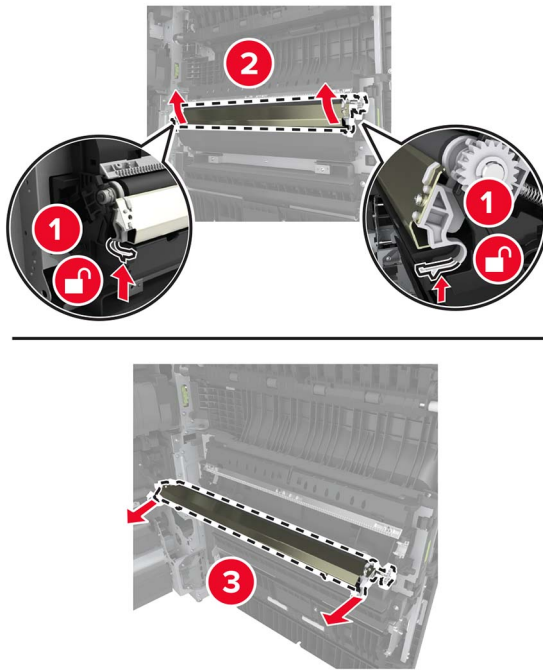
- Make sure that the door does not hit any cables attached to the printer.
- If a 3000-sheet tray is installed, then slide the tray to the right to open the door.



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

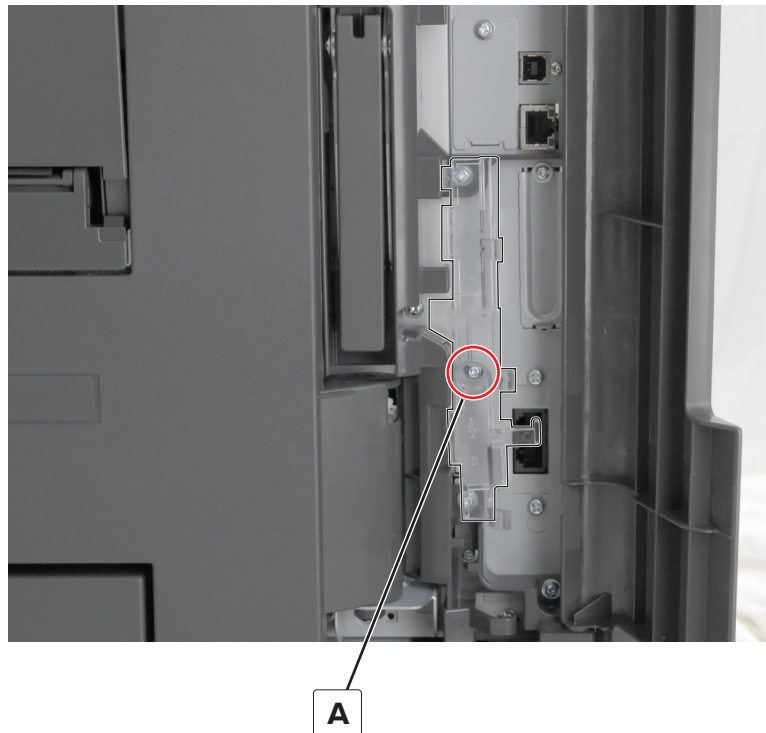


2 Remove the transfer roller.




Port cable guide removal

1 Open the port access door, and then remove the screw (A).



2 Remove the guide.

Right door removal

 **CAUTION—HOT SURFACE:** The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

1 Open the right door.

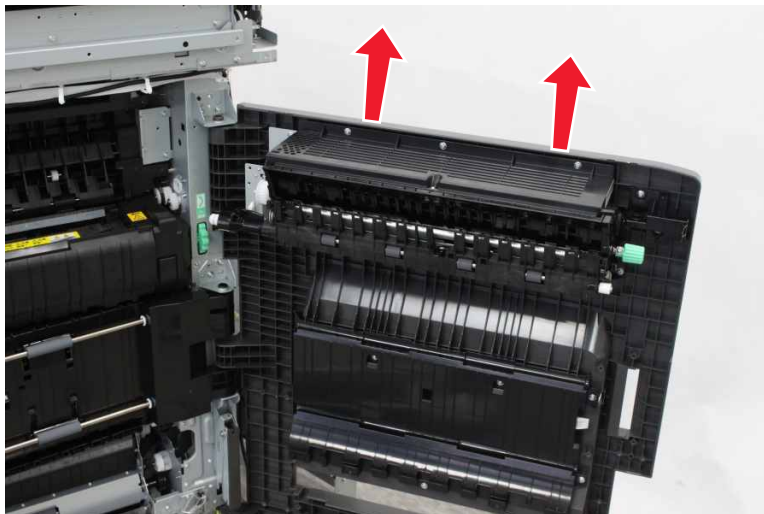
Installation note: Before removing the door, pay attention to the alignment of the door hinge.



2 Remove the two screws (A), and then remove the upper hinge.



- 3** Remove the door.



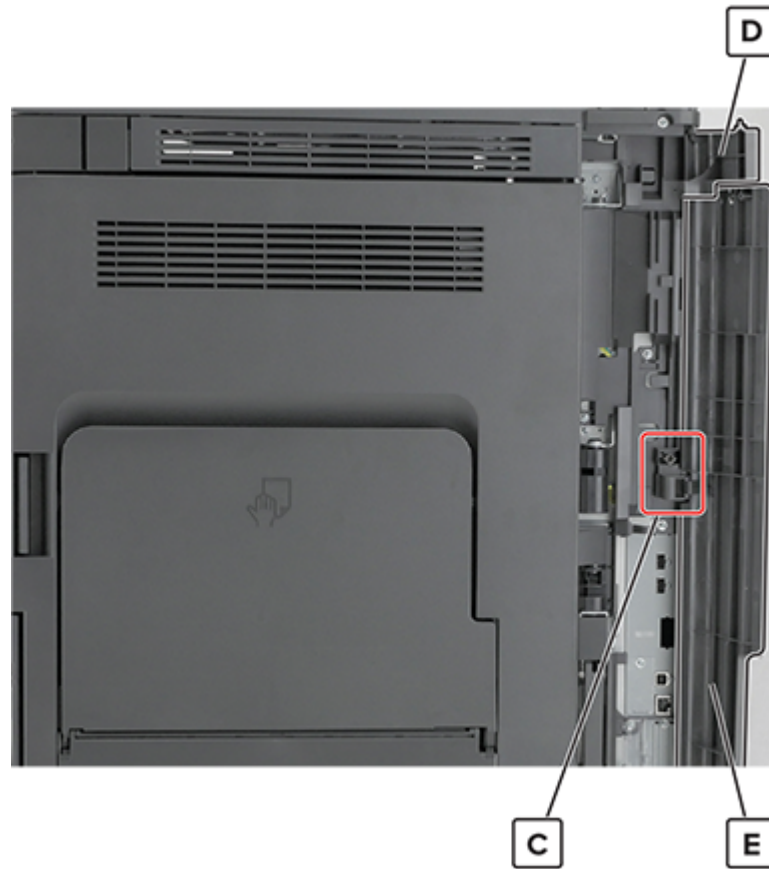
- 4** Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443](#).
- 5** Remove the right door lock. See [“Right door lock removal” on page 458](#).
- 6** Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459](#).
- 7** Remove the MPF. See [“MPF removal” on page 460](#).
- 8** Remove the paper guide. See [“Registration unit lock and spring removal” on page 519](#).

Port access door removal

- 1 Open the port access door.
- 2 Remove the screw (A), and then remove the spring (B).



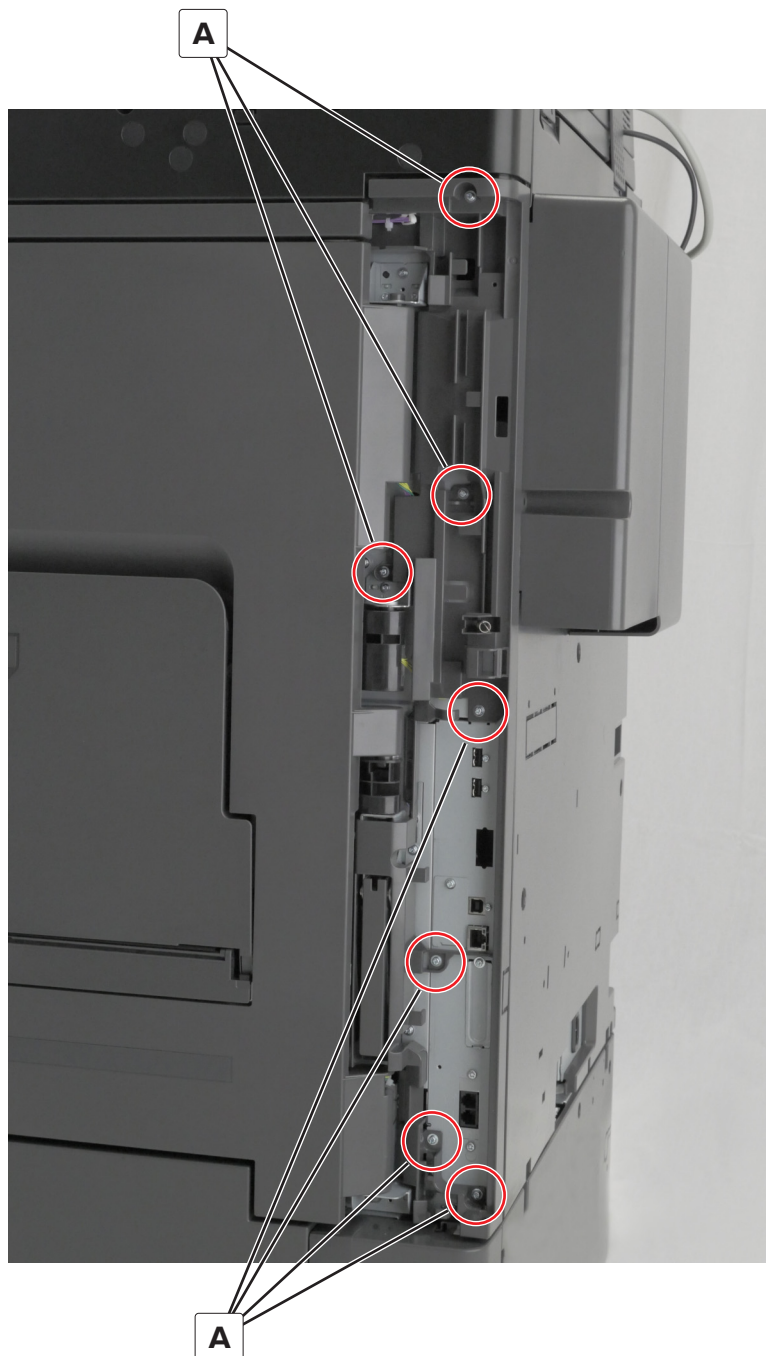
- 3 Detach the hinge (C), and then detach the extension cover (D) from the port access door (E).



Port mount removal

- 1 Remove the port access door. See [“Port access door removal” on page 432](#).
- 2 Remove the port cable guide. See [“Port cable guide removal” on page 429](#).

- 3 Remove the seven screws (A), and then remove the cover.



Tray empty board mount removal

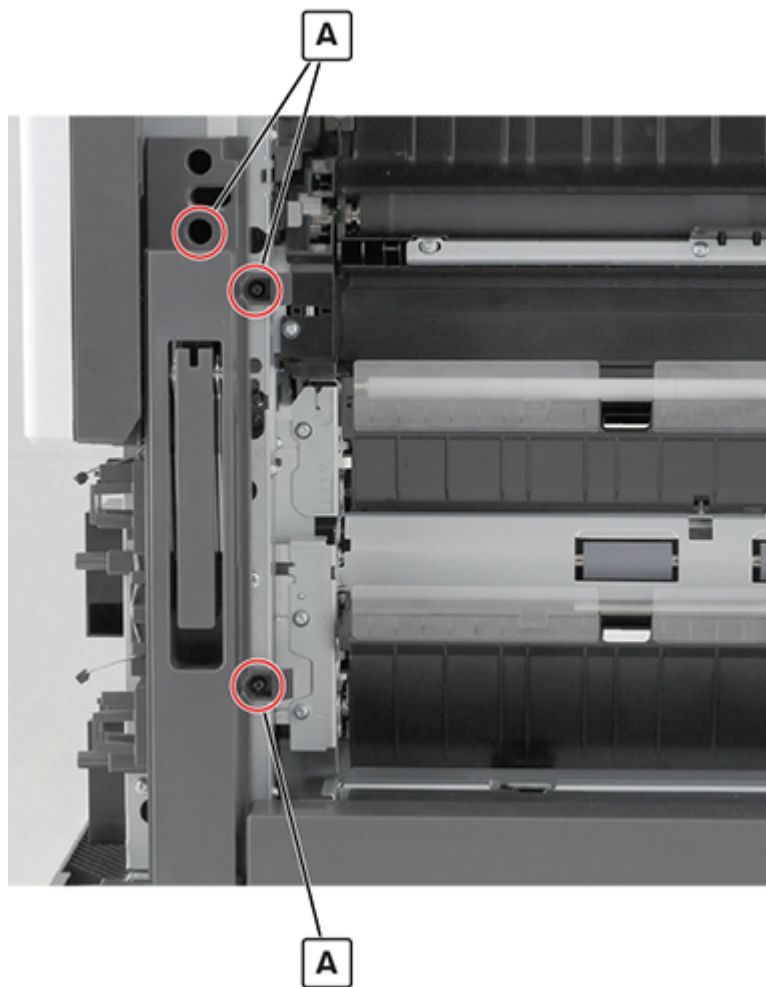
- 1 Open the right door.



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

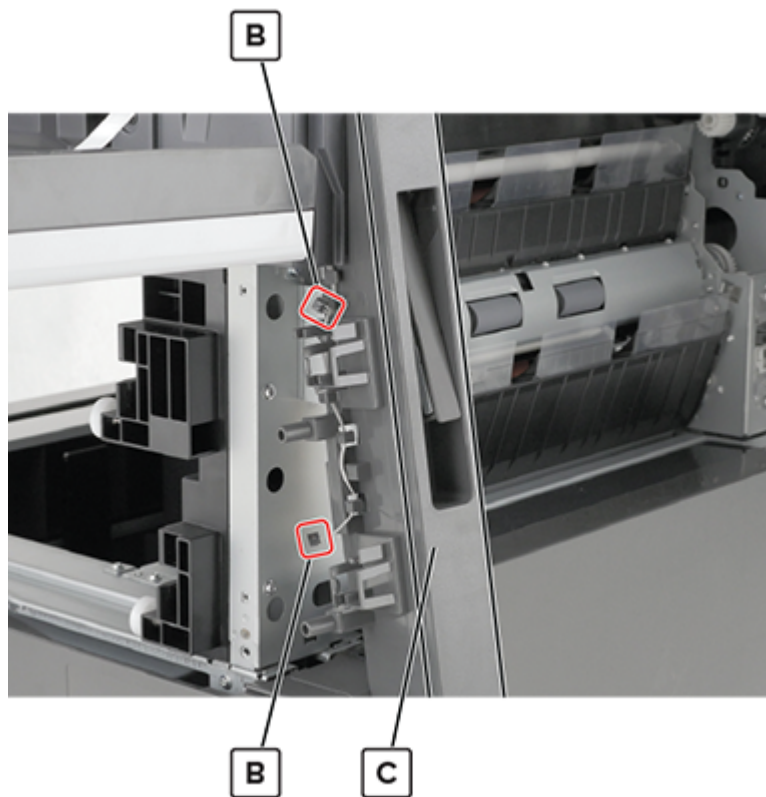
- 2 Remove the tray empty board cover. See [“Tray empty LED cover removal” on page 584](#).

3 Remove the three screws (A).



Parts removal

- 4 Remove the two cables (B) from the cable guides, and then remove the cover (C).



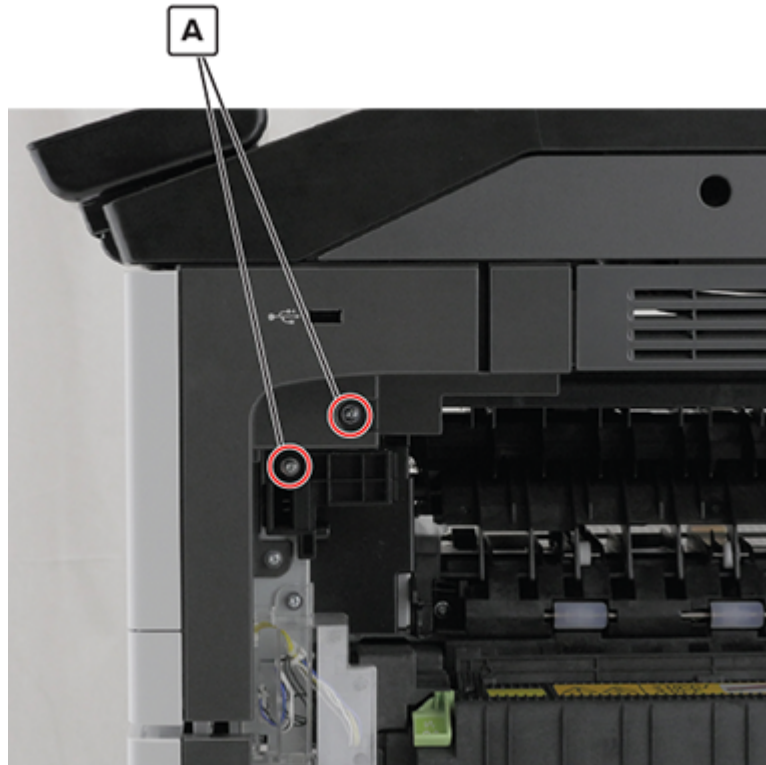
USB port cover removal

- 1 Open the right door.

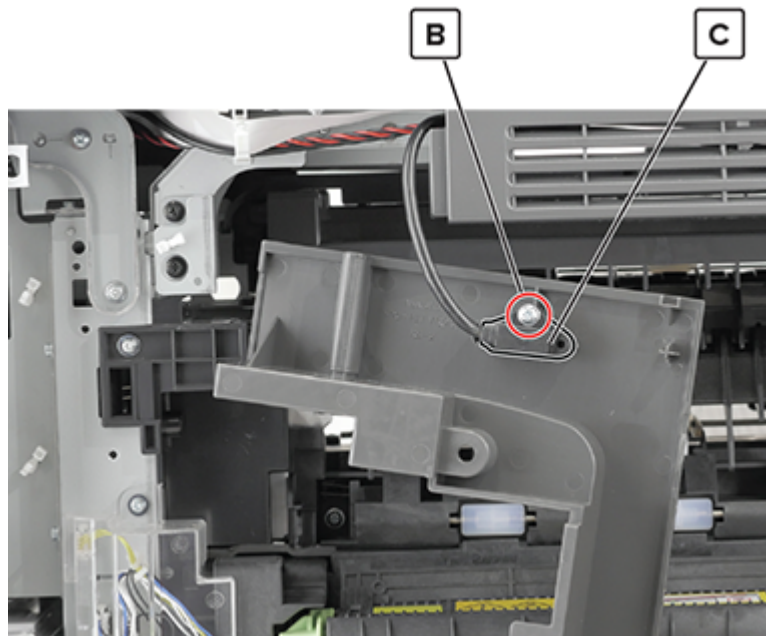


CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

- 2 Remove the two screws (A).



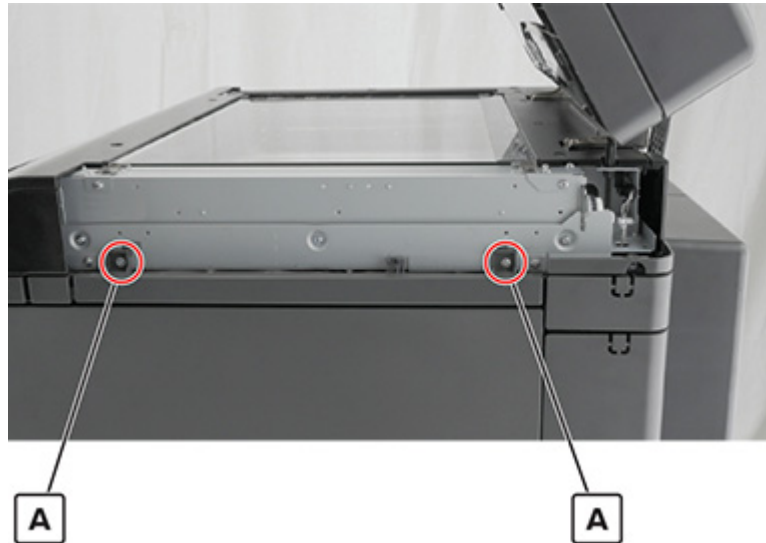
- 3 Remove the screw (B), and then remove the USB port (C) from the cover.



Parts removal

Top right edge cover removal

- 1 Remove the scanner right cover. See [“Scanner right cover removal” on page 840](#).
- 2 Remove the two screws (A), and then remove the cover.



Transfer belt removal

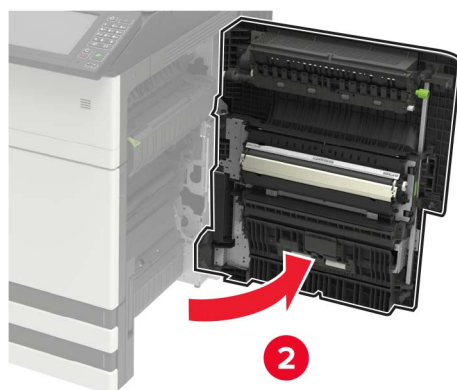
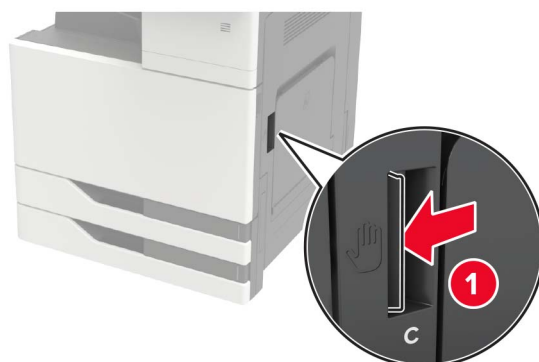
- 1 Open door C.

Notes:

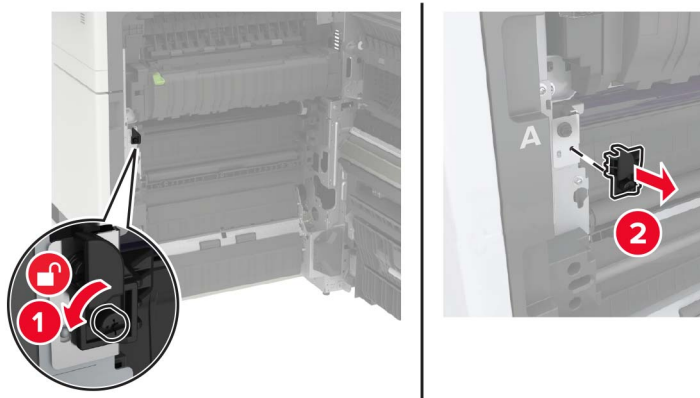
- Make sure that the door does not hit any cable attached to the printer.
- If a 3000-sheet tray is installed, then slide the tray to the right to open the door.



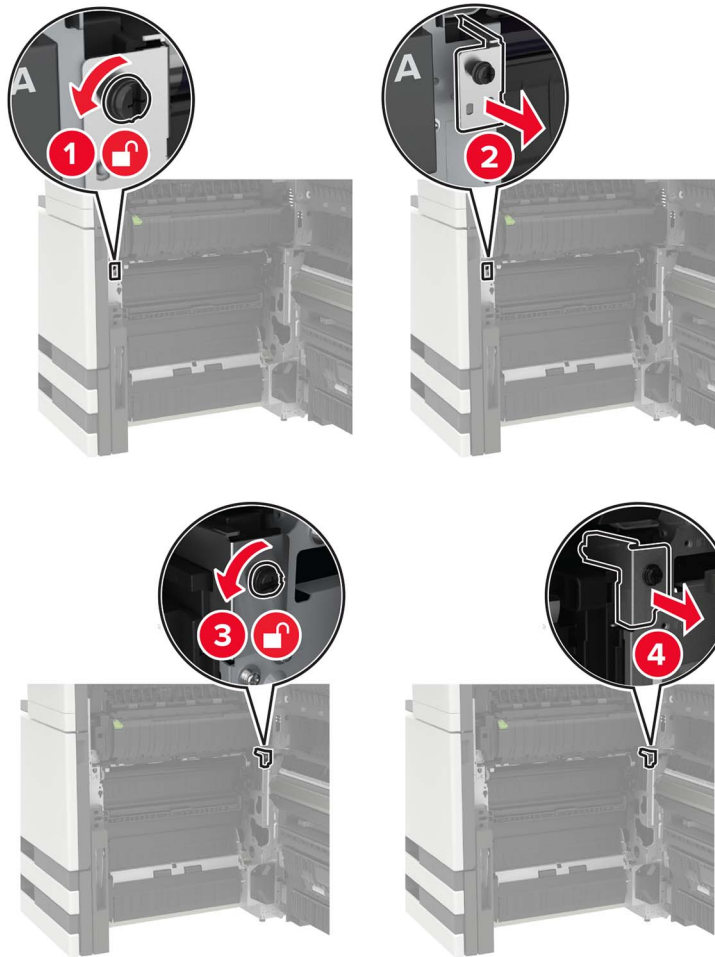
CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.



2 Remove the screw, and then remove the door stopper.



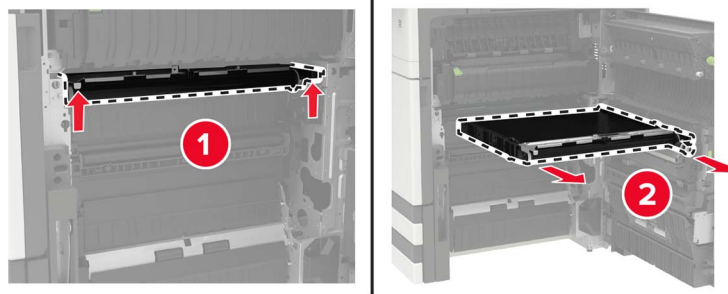
3 Loosen the screws that secure the transfer belt.



4 Remove the transfer belt paper guide.



- 5 Remove the transfer belt.



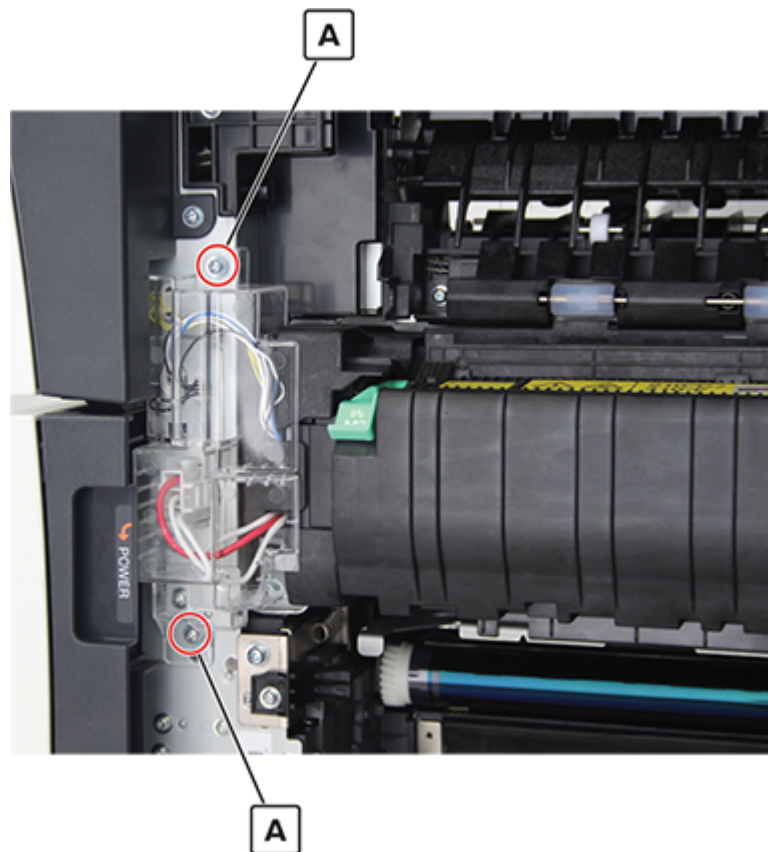
Fuser removal

- 1 Open the right door.

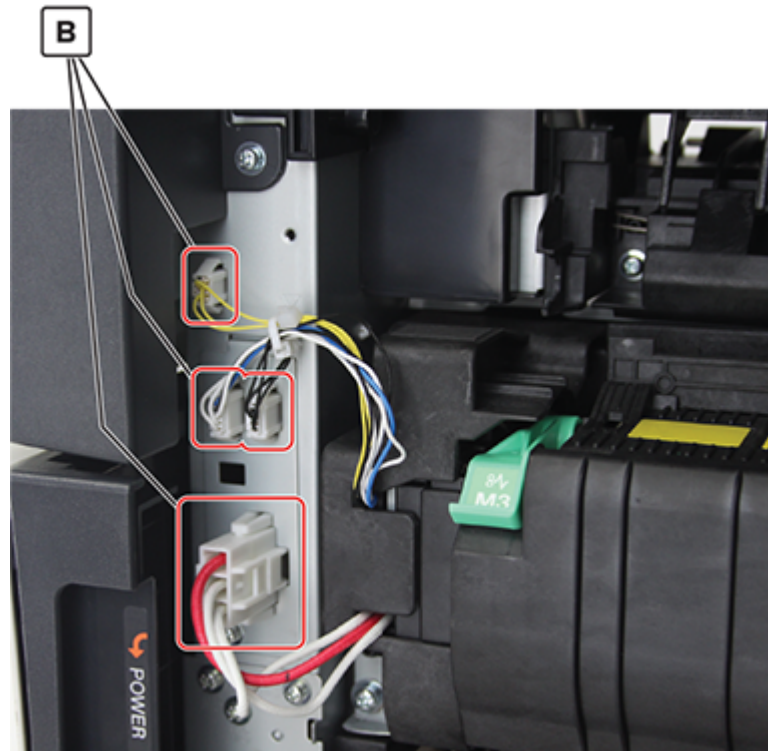


CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

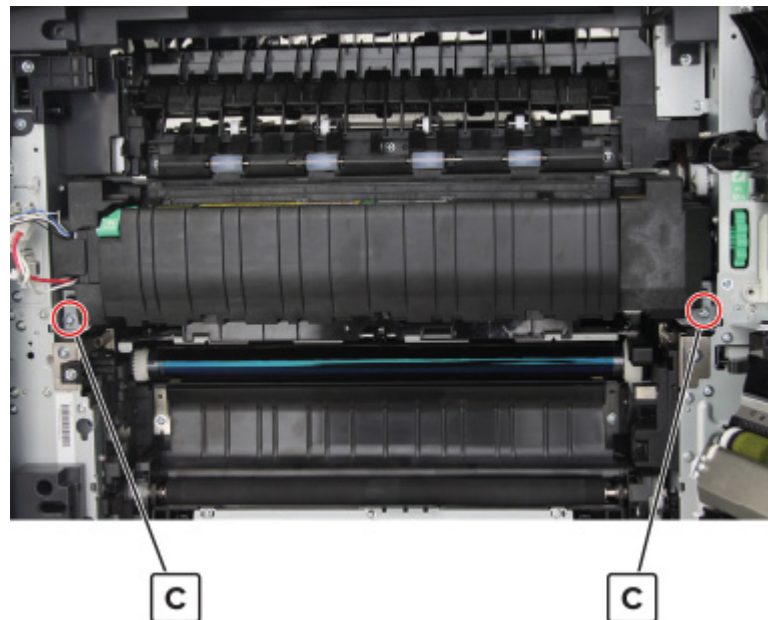
- 2 Remove the two screws (A) to remove the cable cover.



3 Disconnect the four cables (B).



4 Remove the two screws (C), and then remove the fuser.



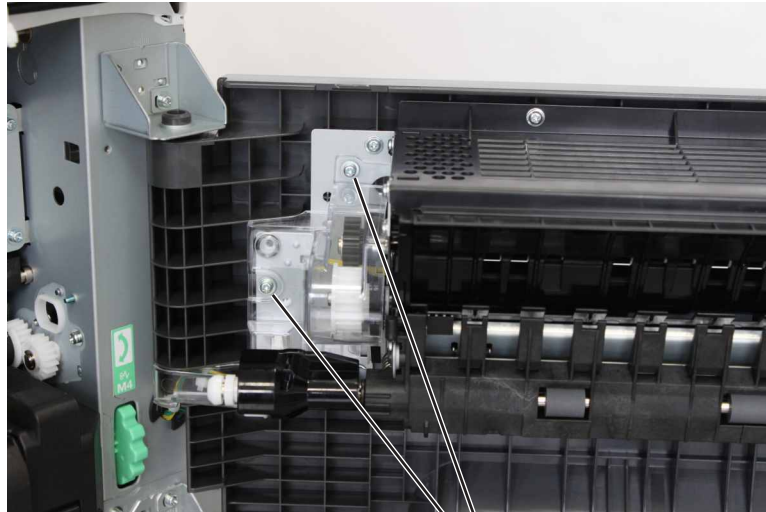
Duplex transport assembly removal

- 1 Open the right door.



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

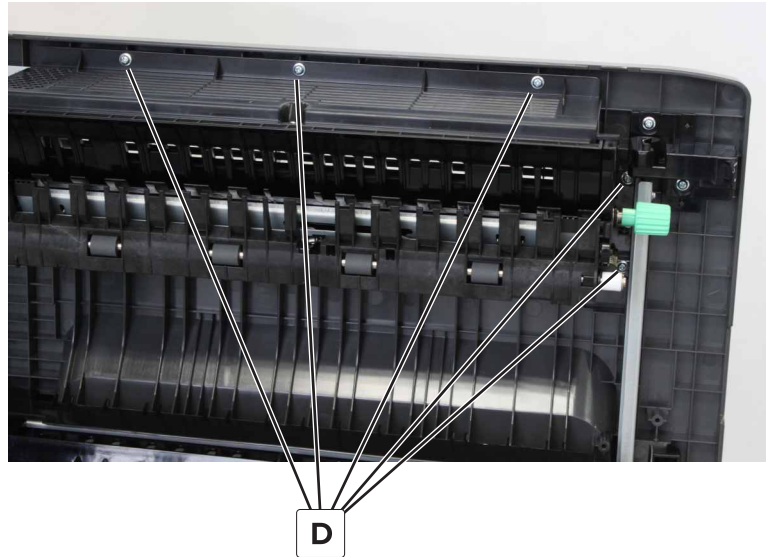
- 2 Remove the two screws (A), and then remove the cover.

**A**

- 3 Disconnect the cable (B), and then remove the three screws (C).

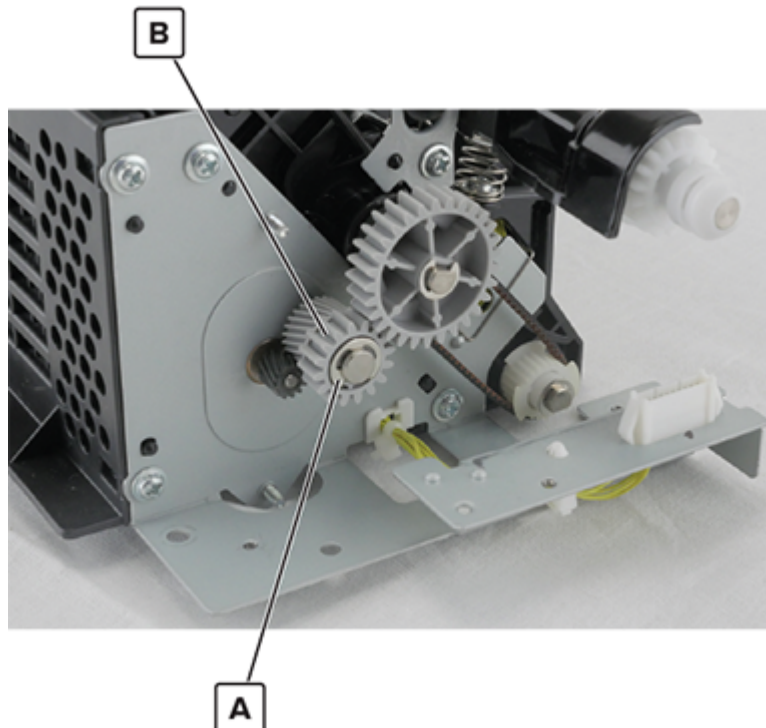
**B****C**

- 4** Remove the five screws (D), and then remove the assembly.



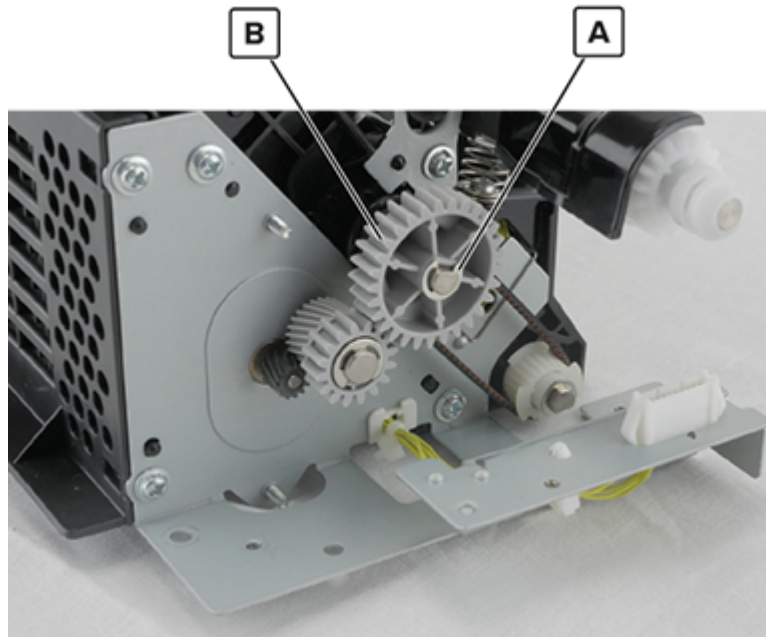
Duplex primary gear removal

- 1** Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443](#).
- 2** Remove the E-clip (A), and then remove the gear (B).



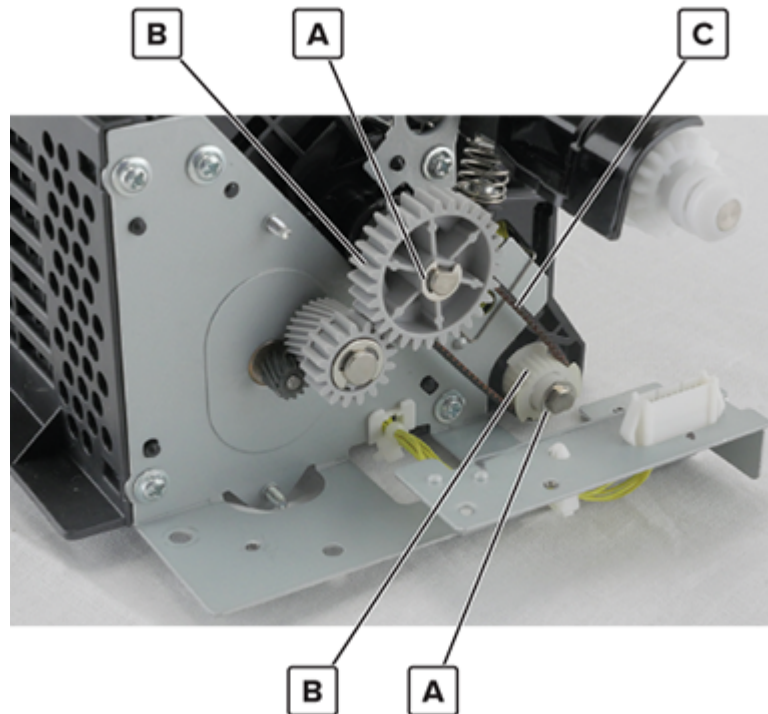
Duplex secondary gear removal

- 1 Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443](#).
- 2 Remove the E-clip (A), and then remove the gear (B).



Duplex transport belt removal

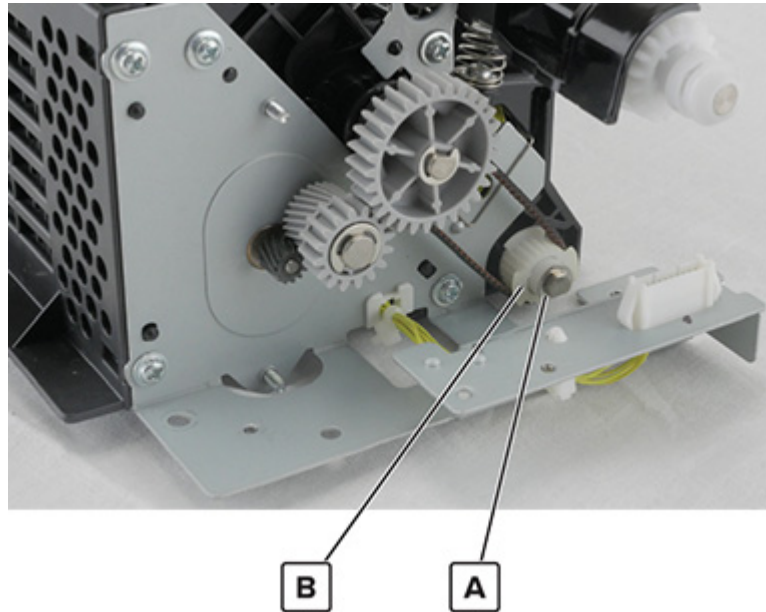
- 1 Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443](#).
- 2 Remove the two E-clips (A), remove the two gears (B), and then remove the belt (C).



Warning—Potential Damage: Do not lose the washers.

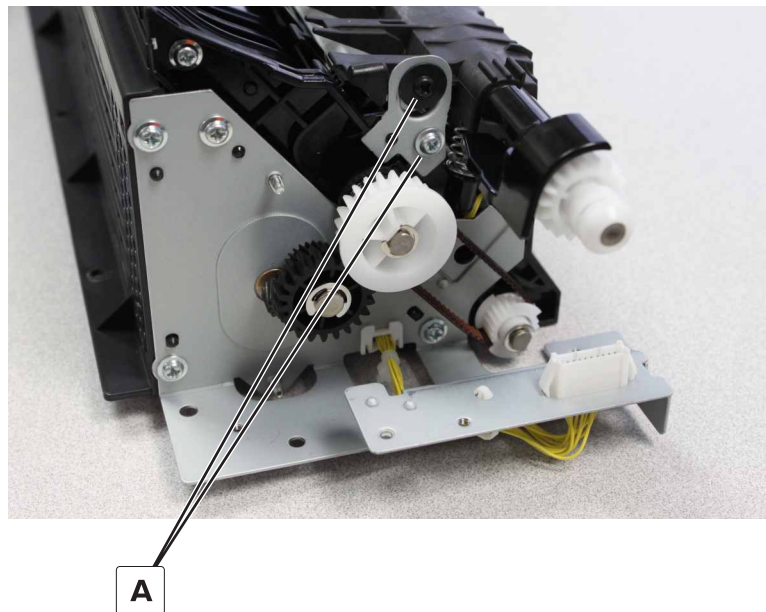
Duplex transport gear removal

- 1 Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443](#).
- 2 Remove the E-clip (A), and then remove the gear (B).

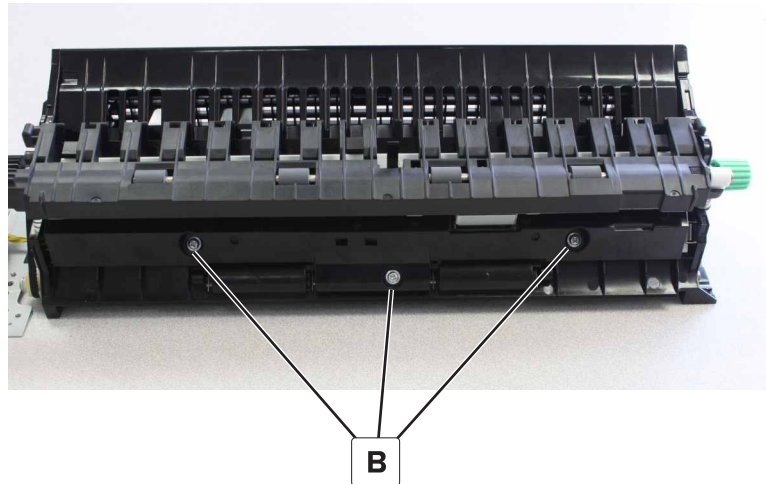


Duplex transport diverter assembly removal

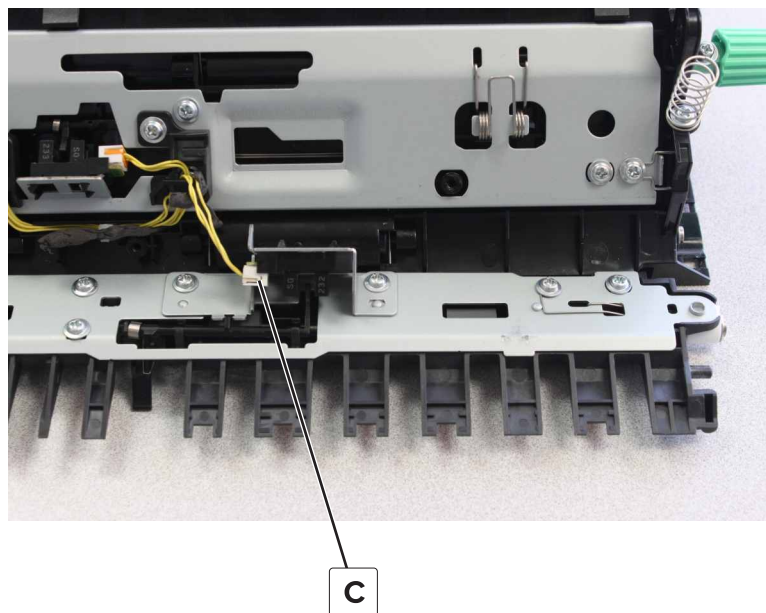
- 1 Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443](#).
- 2 Remove the two screws (A), and then remove the bracket.



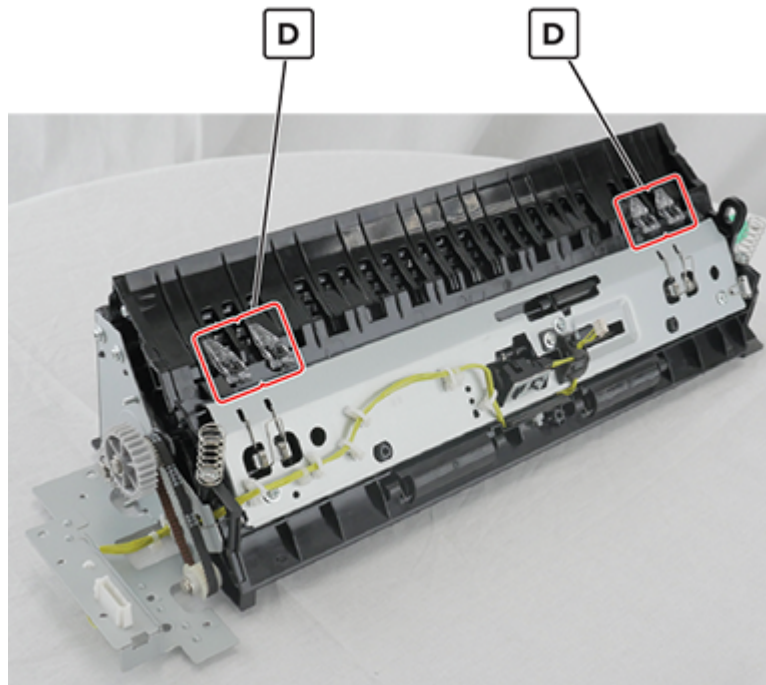
- 3** Remove the three screws (B), and then raise the diverter assembly.



- 4** Disconnect the cable (C), and then remove the diverter assembly.

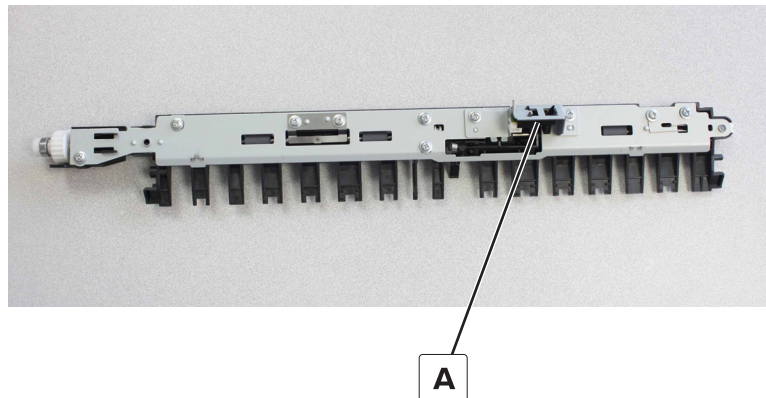


Warning—Potential Damage: Do not lose the four paper guide flaps (D).



Sensor (fuser exit) removal

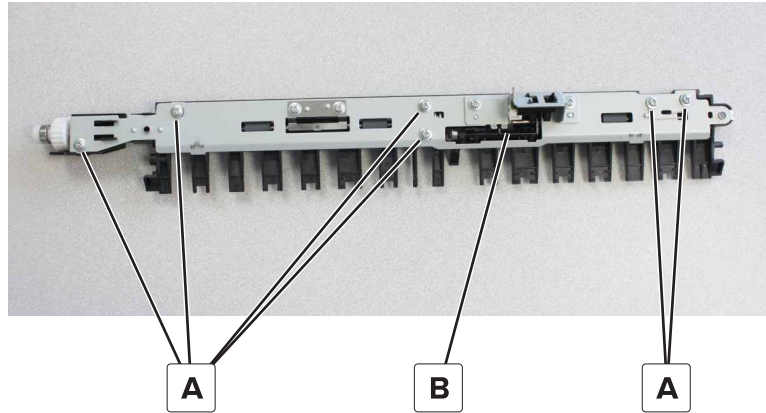
- 1 Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443.](#)
- 2 Remove the duplex transport diverter assembly. See [“Duplex transport diverter assembly removal” on page 447.](#)
- 3 Remove the sensor (A).



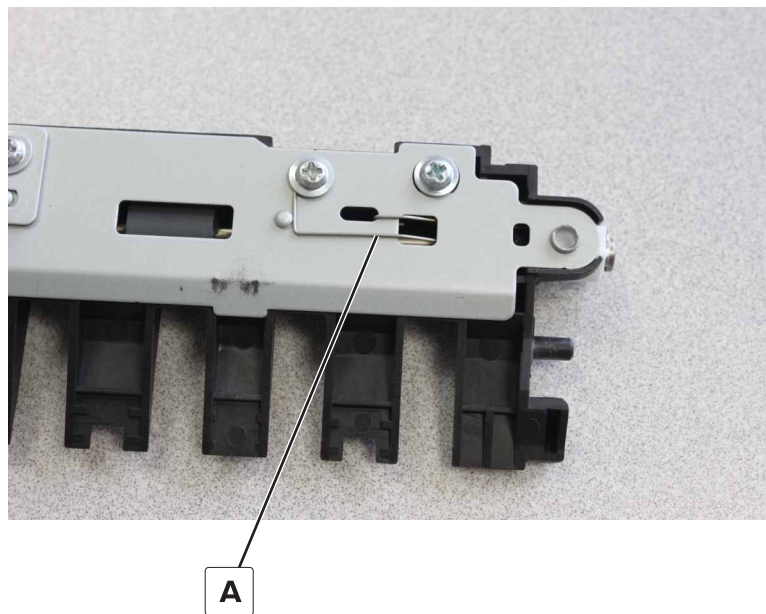
Fuser exit sensor actuator removal

- 1 Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443.](#)
- 2 Remove the duplex transport diverter assembly. See [“Duplex transport diverter assembly removal” on page 447.](#)

- 3** Remove the six screws (A), remove the diverter bracket, and then remove the sensor actuator (B).

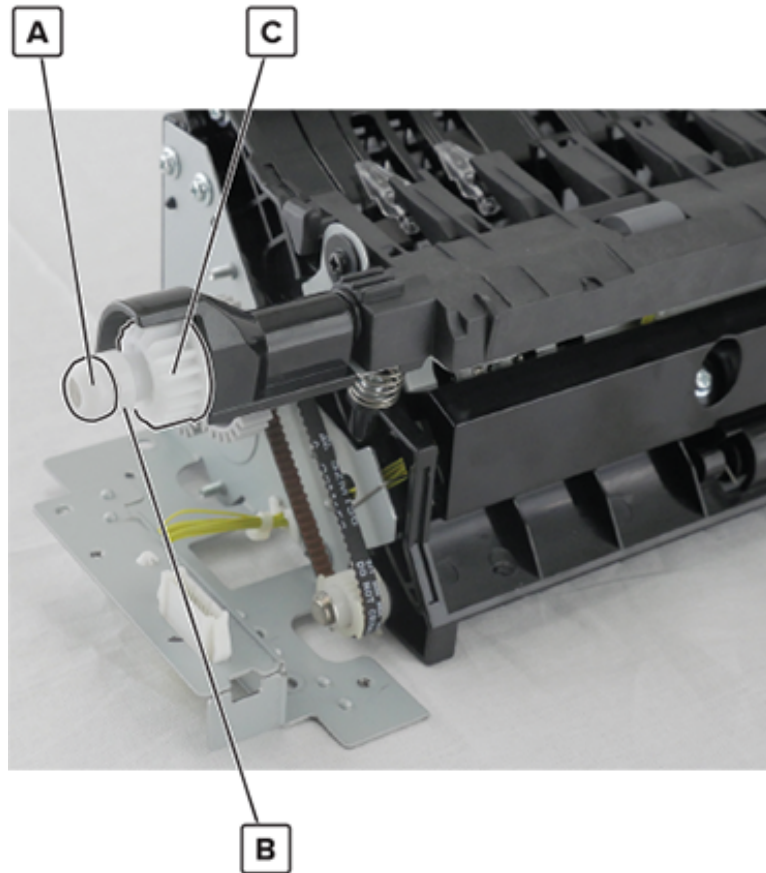


Installation note: Make sure that the ground retainers (A) are correctly installed.



Duplex redrive diverter gear removal

- 1 Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443](#).
- 2 Remove the E-clip (A), remove the spacer (B), and then remove the gear (C).



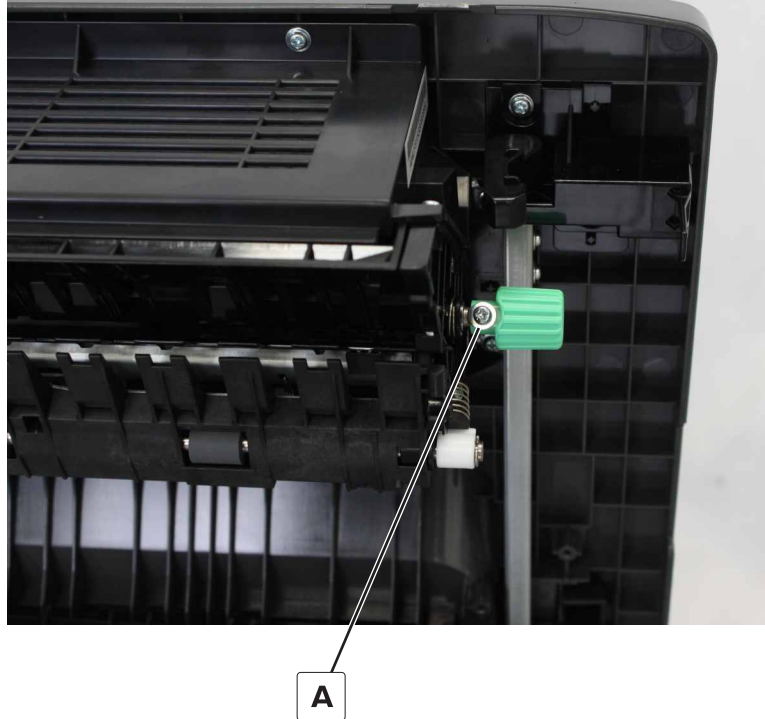
Duplex transport jam removal knob removal

- 1 Open the right door.



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

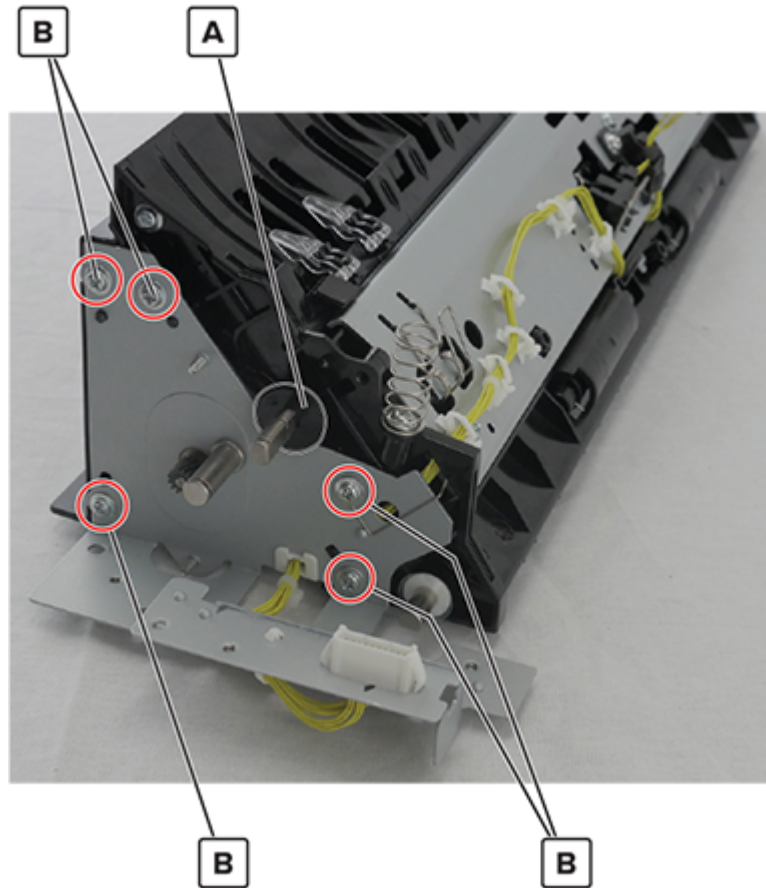
- 2 Remove the screw (A), and then remove the knob.



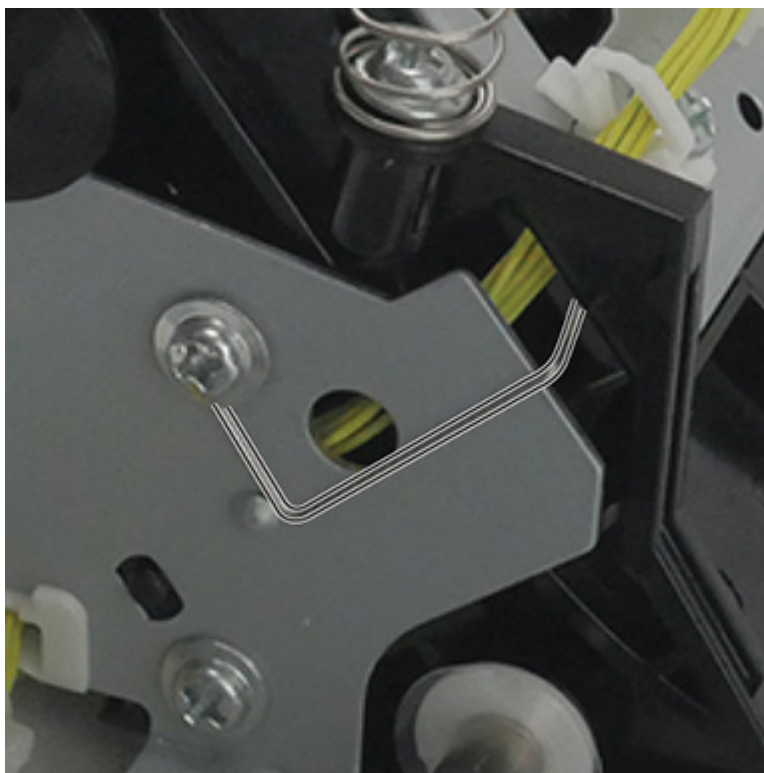
Fuser exit sensor cable removal

- 1 Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443](#).
- 2 Remove the duplex transport diverter assembly. See [“Duplex transport diverter assembly removal” on page 447](#).
- 3 Remove the duplex primary gear. See [“Duplex primary gear removal” on page 444](#).
- 4 Remove the duplex secondary gear. See [“Duplex secondary gear removal” on page 445](#).
- 5 Remove the duplex transport gear. See [“Duplex transport gear removal” on page 447](#).
- 6 Remove the duplex transport belt. See [“Duplex transport belt removal” on page 446](#).

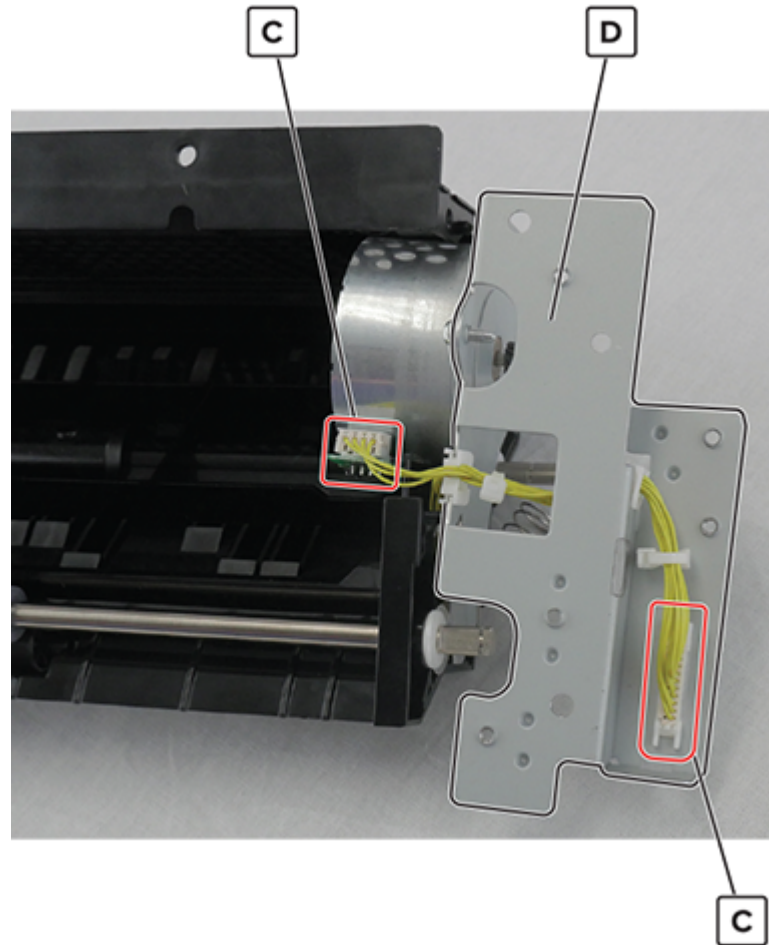
- 7 Remove the washer (A), and then remove the five screws (B).



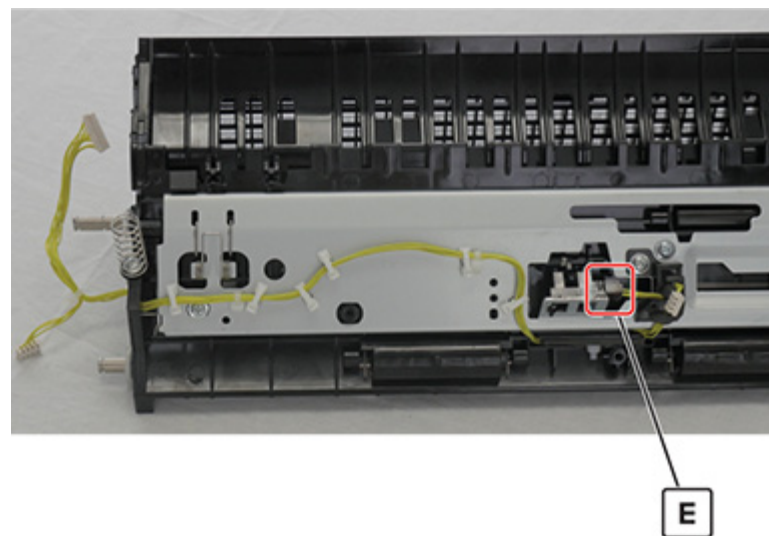
Installation note: Pay attention to the position of the ground wire.



- 8 Disconnect the two cables (C), remove the cables from the cable guides, and then remove the bracket (D).



- 9 Disconnect the cable (E), and then remove the cable from the cable guides.

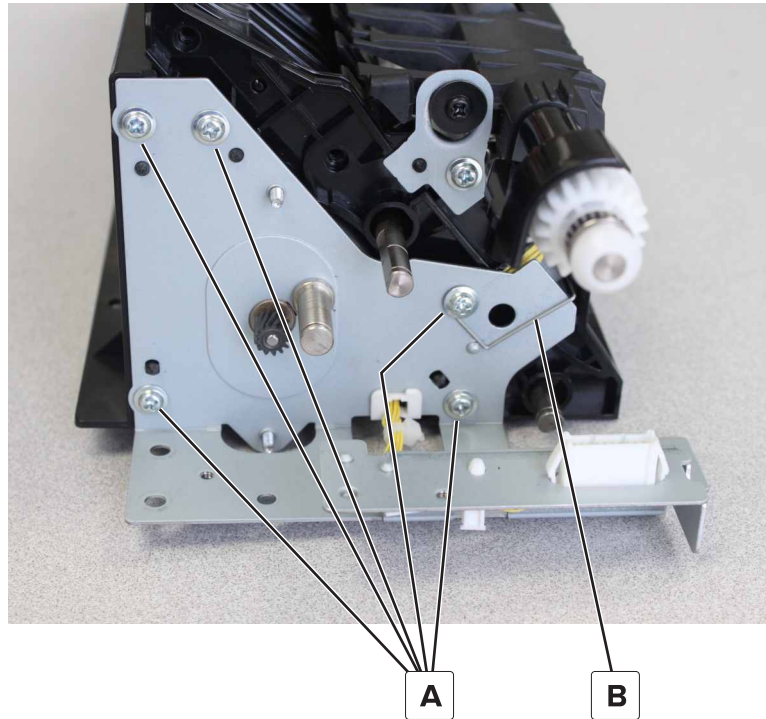


Note: Pay attention to the cable routing.

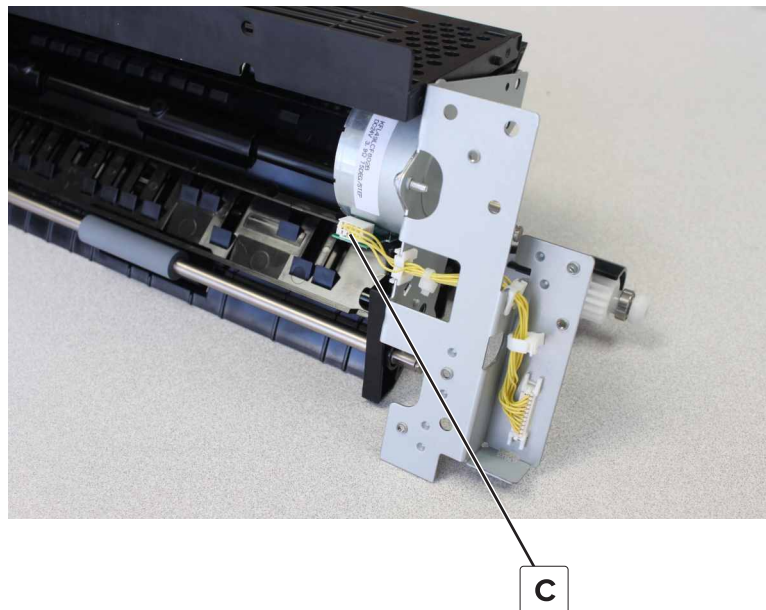
Motor (duplex transport) removal

- 1 Remove the duplex transport assembly. See [“Duplex transport assembly removal” on page 443](#).
- 2 Remove the five screws (A).

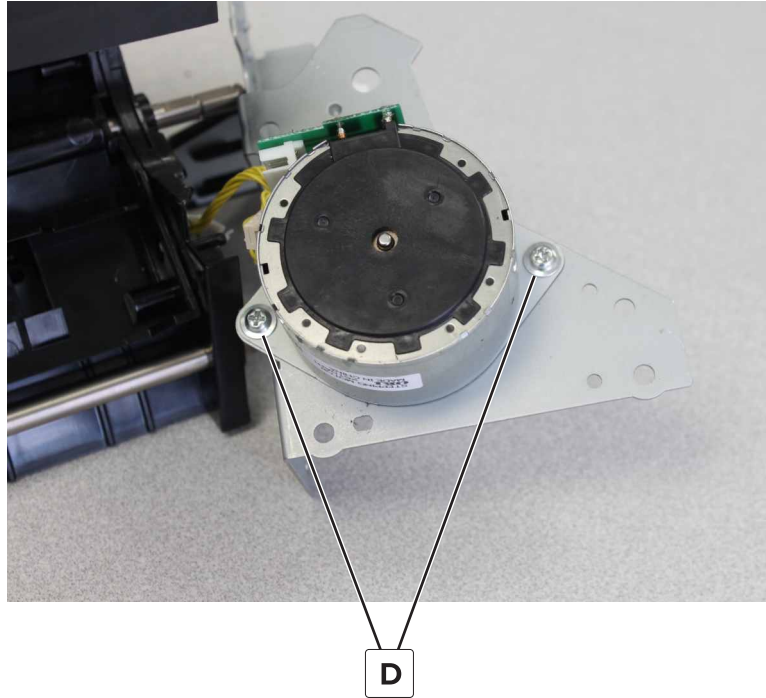
Note: Take note of the original position of the retainer (B).



- 3 Disconnect the cable (C).




- 4** Move away the bracket, and then remove the two screws (D).



- 5** Remove the motor.

Right door lock removal

1 Open the right door.

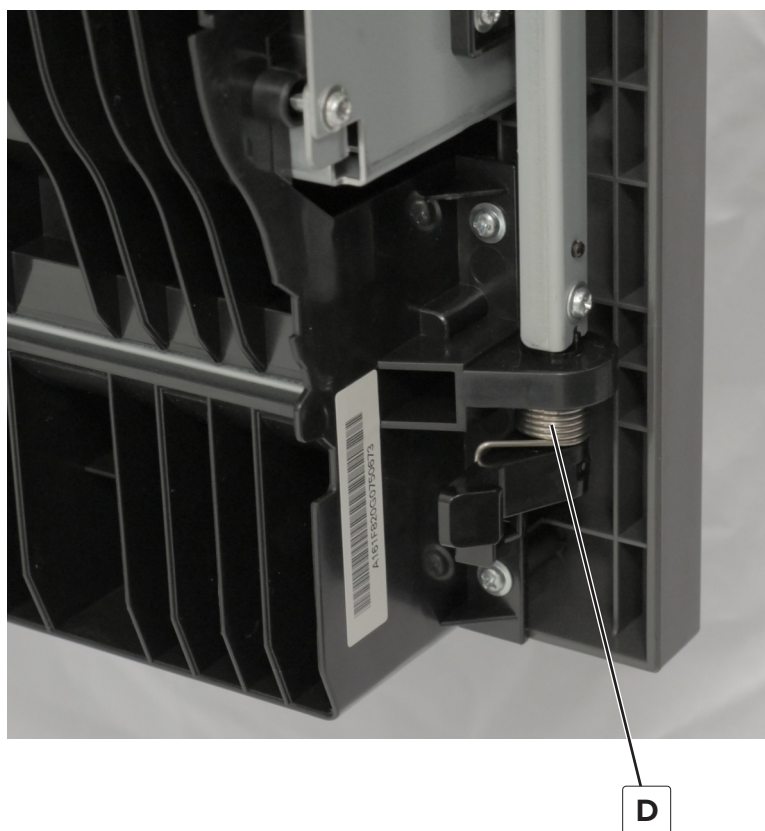
 **CAUTION—HOT SURFACE:** The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

2 Remove the nine screws (A), remove the spring (B), and then remove the three locks (C).



Installation note: Make sure that the spring (D) is properly installed.

Parts removal



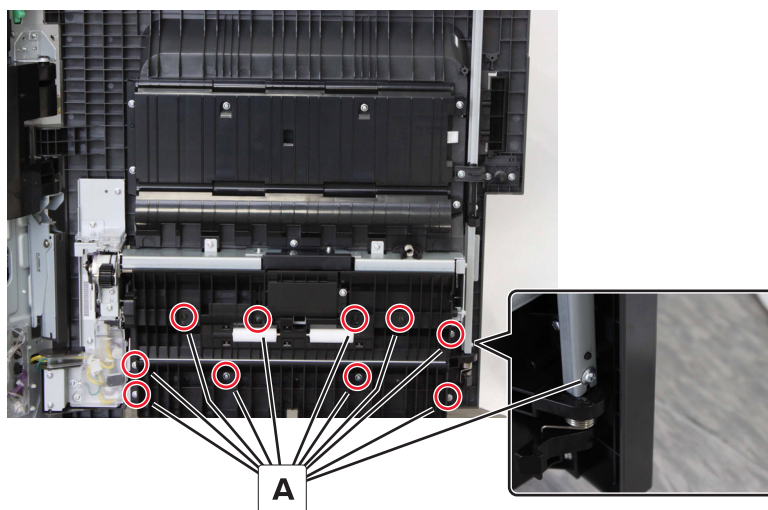
Tray 2 transport guide removal

- 1 Open the right door.



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

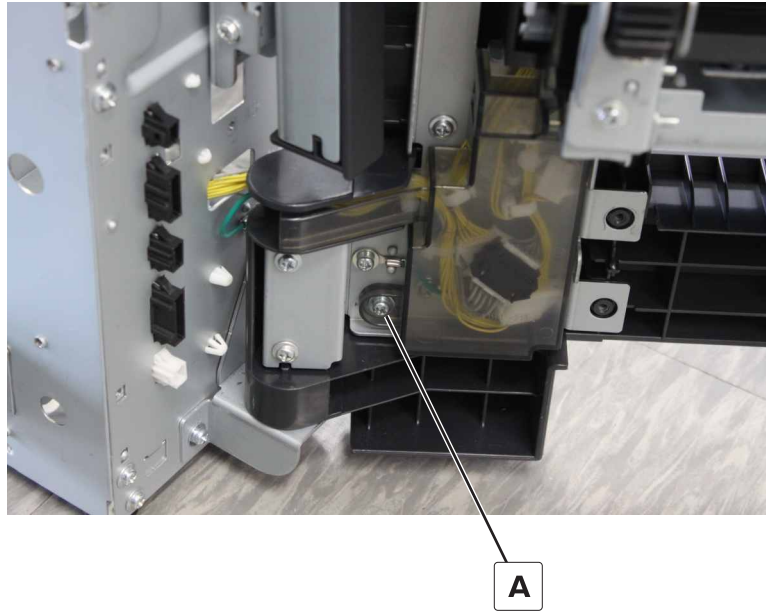
- 2 Remove the 11 screws (A), and then remove the guide.



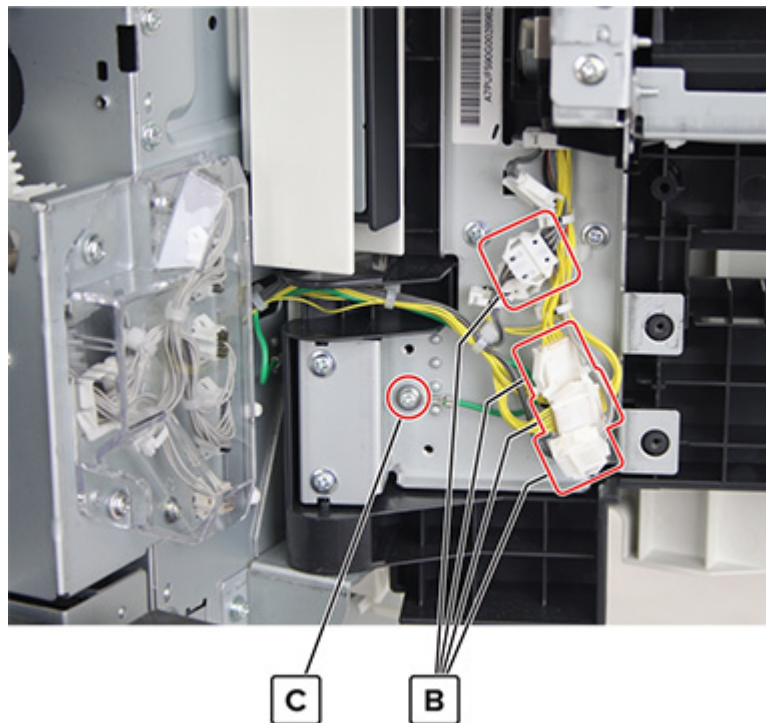
Parts removal

MPF removal

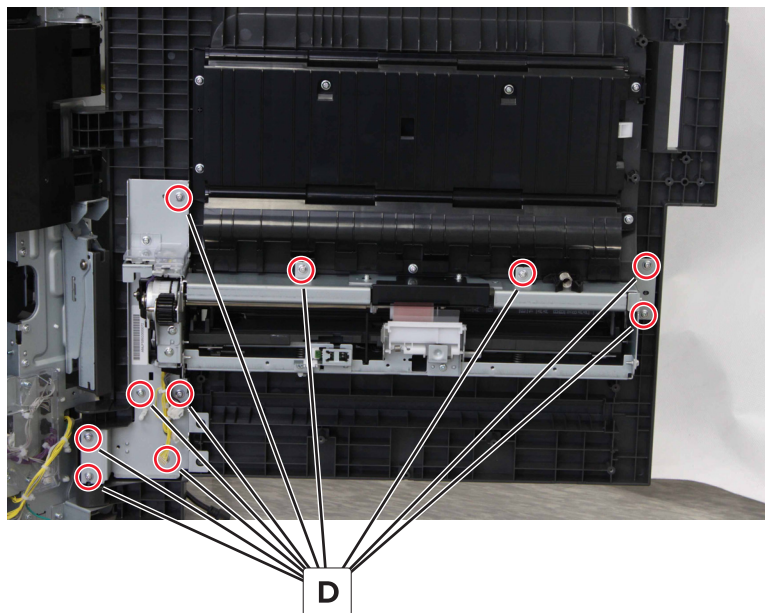
- 1 Remove the right door lock. See [“Right door lock removal” on page 458.](#)
- 2 Remove tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 3 Remove the screw (A) to remove the cable cover.



- 4 Disconnect the four cables (B), and then remove the screw (C).



- 5** Remove the 10 screws (D), and then remove the MPF.



MPF hinge arm removal

- 1** Open the MPF tray.
- 2** Pry the arm to release.

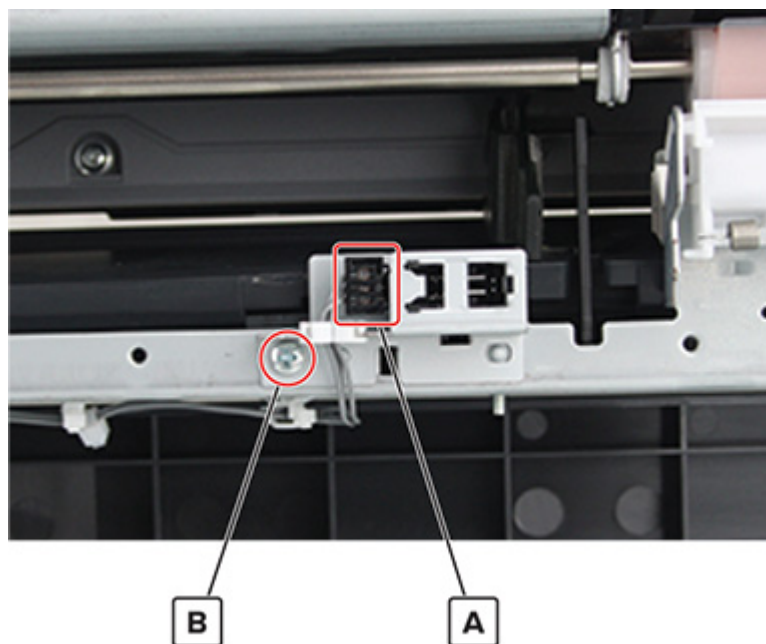


- 3** Remove the arm.



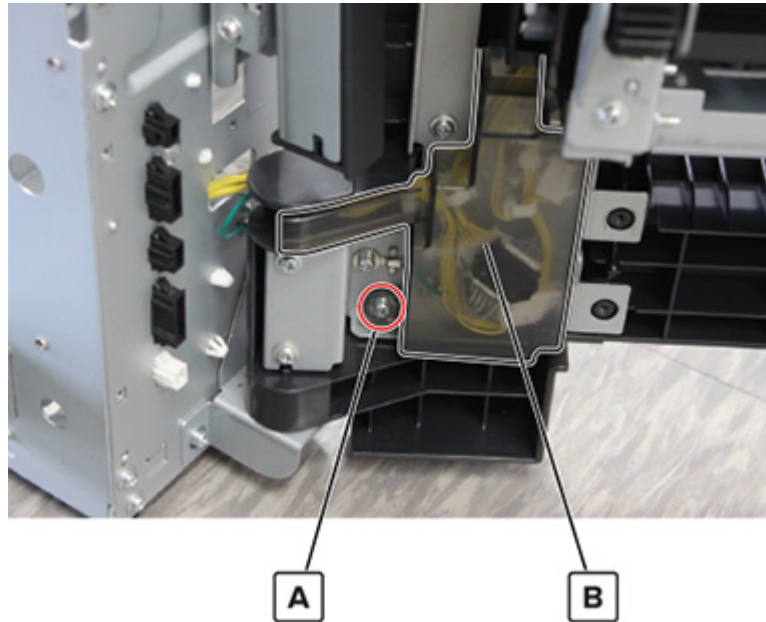
Sensor (MPF paper present) removal

- 1** Remove tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 2** Disconnect the cable (A), remove the screw (B), and then remove the sensor from the bracket.

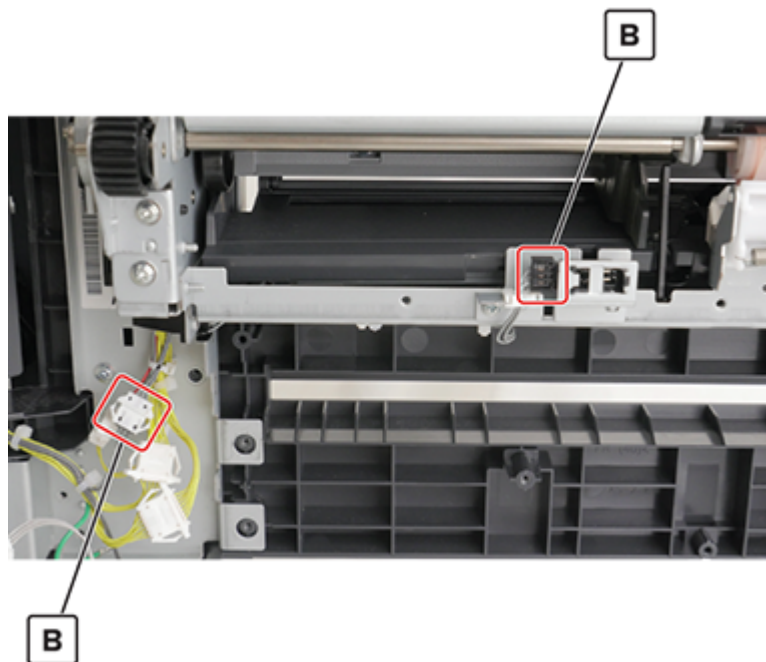


MPF paper present sensor cable removal

- 1 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459](#).
- 2 Remove the screw (A), and then remove the cable cover (B).



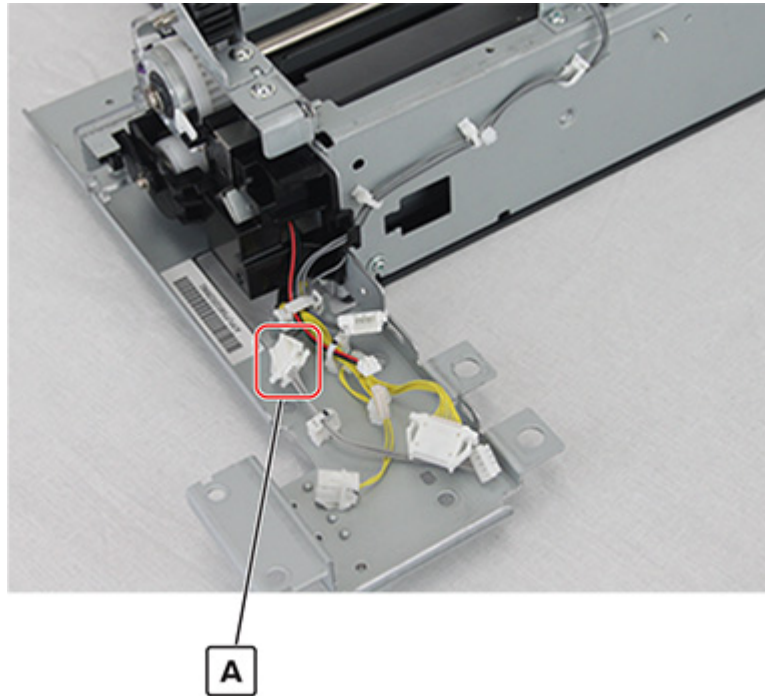
- 3 Disconnect the two cables (B), and then remove the cables from the cable guides.



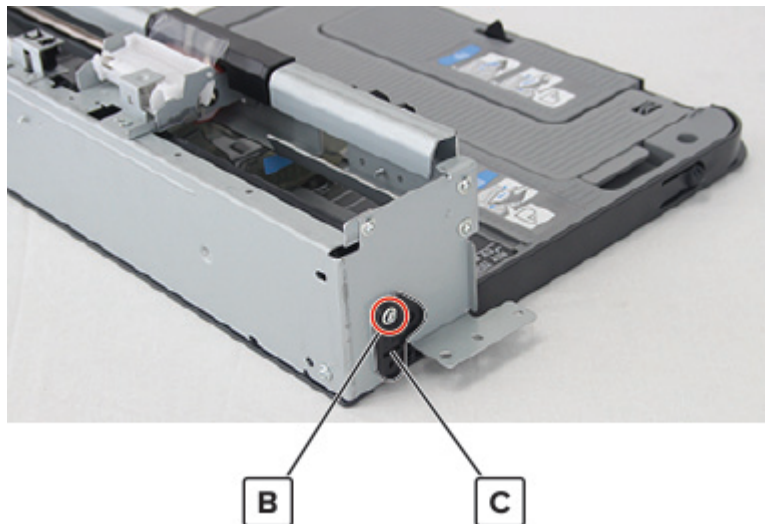
MPF tray removal

- 1 Remove the right door lock. See [“Right door lock removal” on page 458](#).
- 2 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459](#).

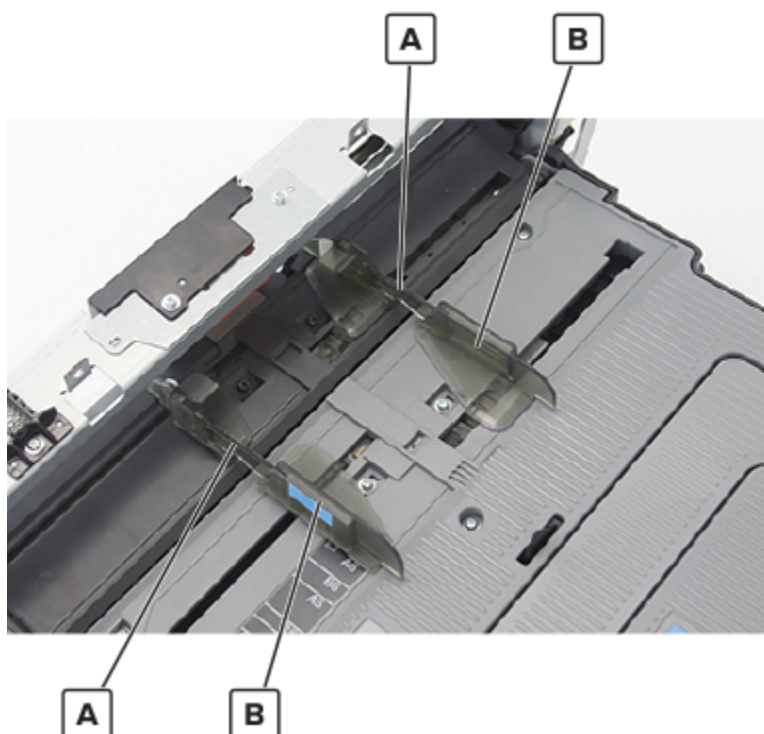
- 3 Remove the MPF. See [“MPF removal” on page 460](#).
- 4 Disconnect the cable (A), and then remove the cable from the cable guides.



- 5 Remove the screw (B), remove the pin (C), and then remove the tray.

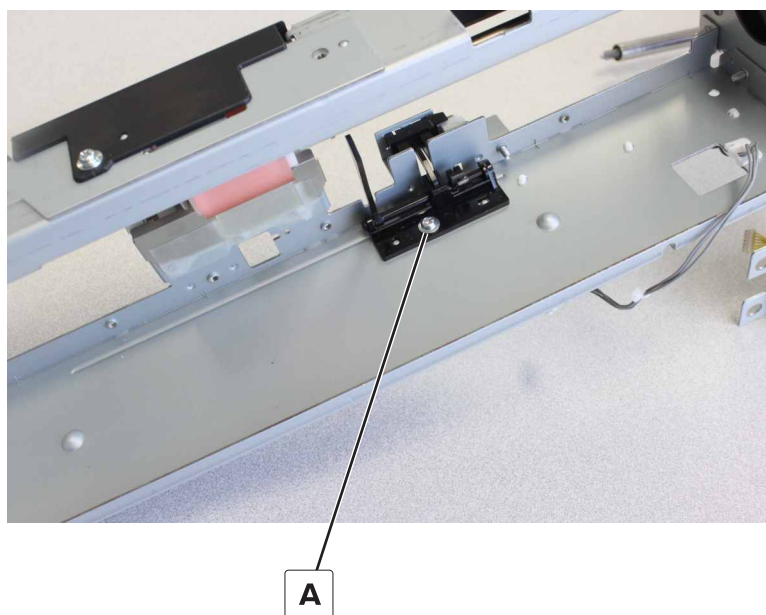


Installation note: When reinstalling the tray, make sure that the paper width guide links (A) are properly installed to the paper guides (B).



MPF paper empty flag removal

- 1 Remove the right door lock. See [“Right door lock removal” on page 458.](#)
- 2 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 3 Remove the MPF. See [“MPF removal” on page 460.](#)
- 4 Remove the MPF tray. See [“MPF tray removal” on page 463.](#)
- 5 Remove the screw (A), and then remove the actuator with spring.



Parts removal

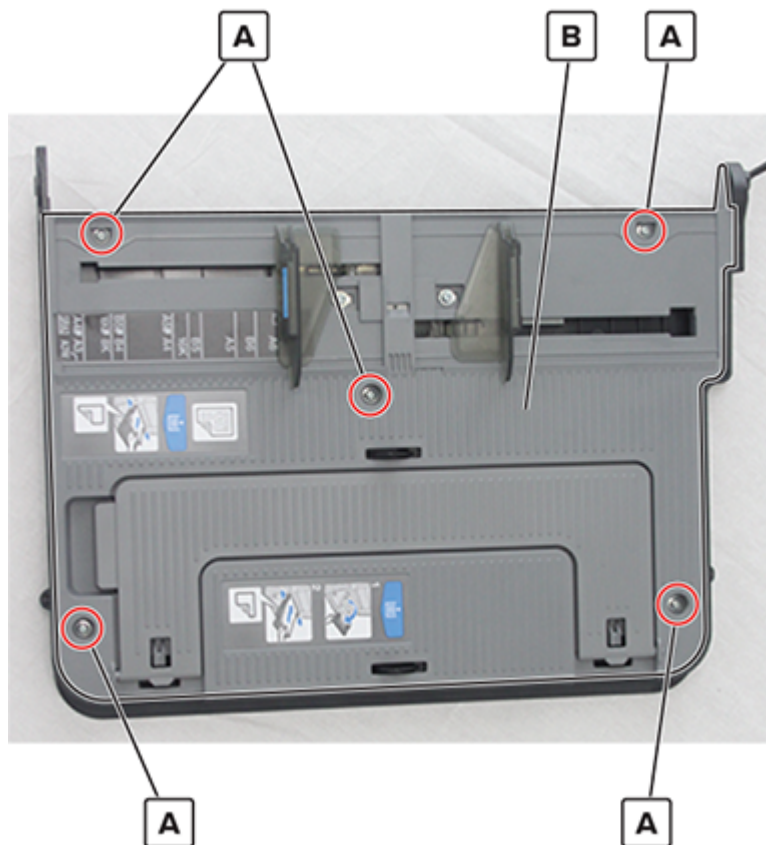
Installation note: Make sure that the spring is correctly positioned on the actuator base.



MPF paper width gear removal

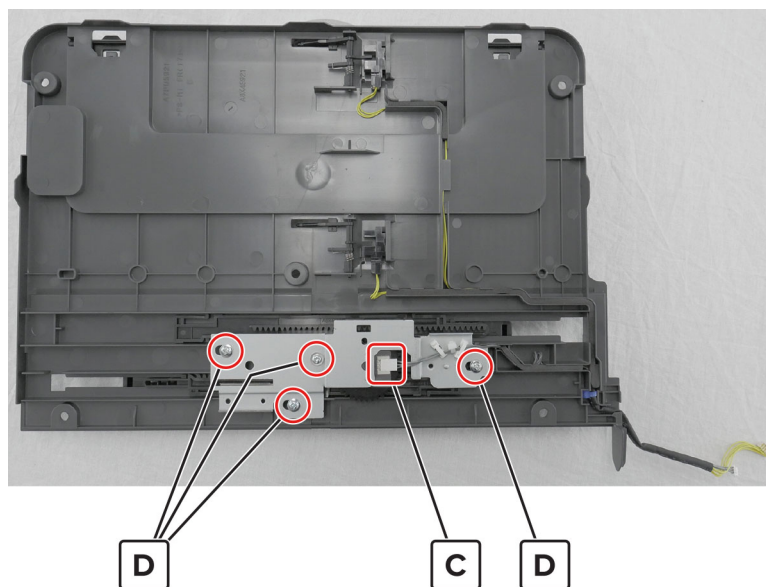
- 1 Remove the right door lock. See [“Right door lock removal” on page 458.](#)
- 2 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 3 Remove the MPF. See [“MPF removal” on page 460.](#)
- 4 Remove the MPF tray. See [“MPF tray removal” on page 463.](#)

- 5 Remove the five screws (A), and then remove the cover (B).

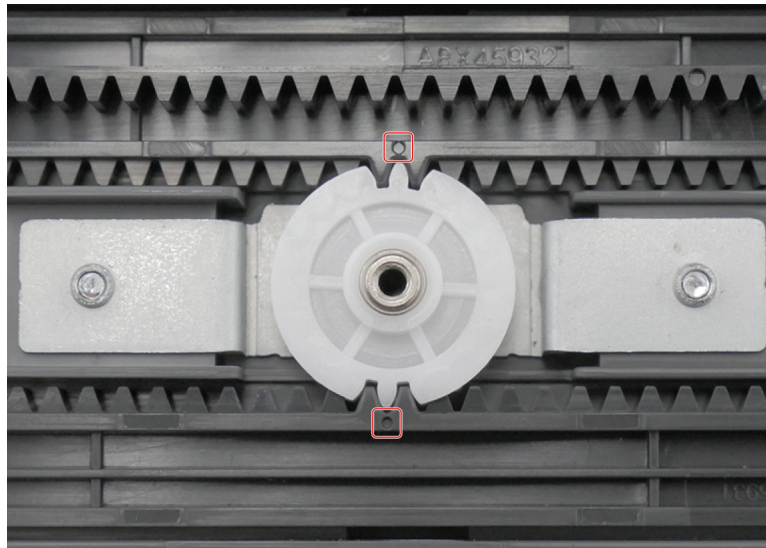


- 6 Disconnect the cable (C), and then release it from its guides.

- 7 Remove the four screws (D), and then remove the bracket.

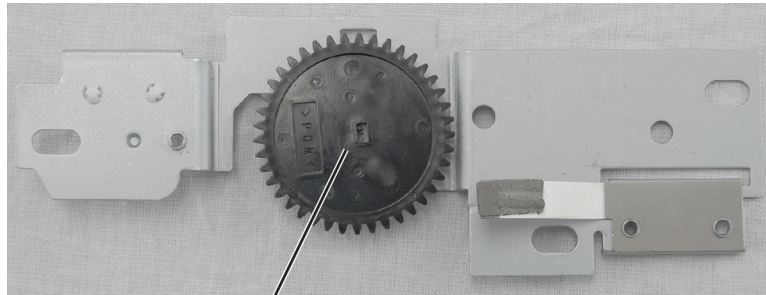


Installation note: Take note of the positions of the gear and dots under the bracket.



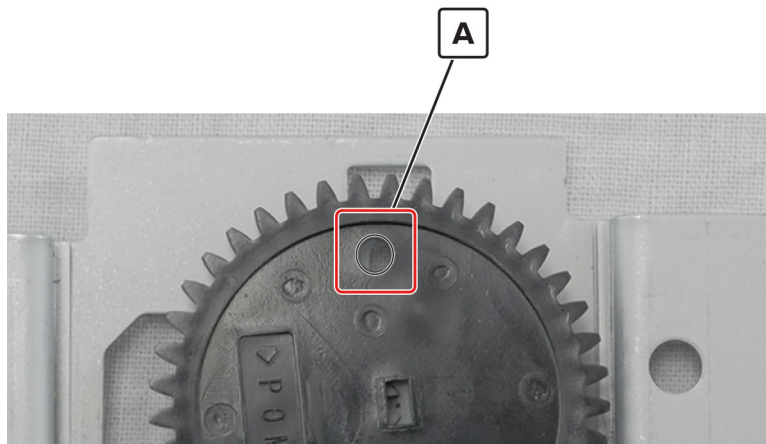
8 Remove the gear (E).

Warning—Potential Damage: Do not turn the gear.



E

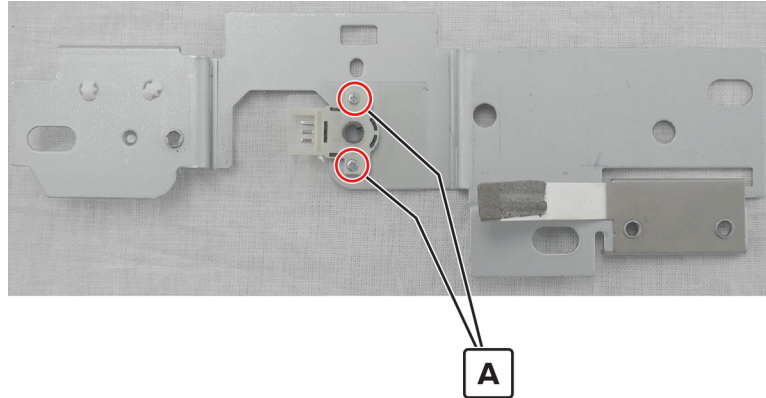
Installation note: Take note of the position of the gear hole (A) relative to the bracket hole behind it.



A

Sensor (MPF paper width) removal

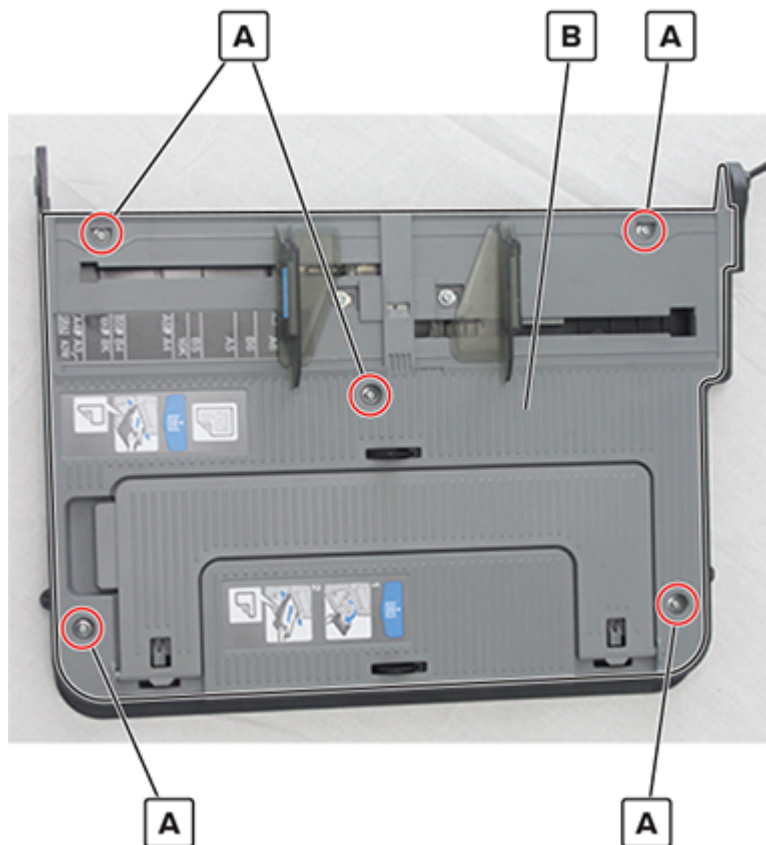
- 1 Remove the right door lock. See [“Right door lock removal” on page 458](#).
- 2 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459](#).
- 3 Remove the MPF. See [“MPF removal” on page 460](#).
- 4 Remove the MPF tray. See [“MPF tray removal” on page 463](#).
- 5 Remove the MPF paper width gear. See [“MPF paper width gear removal” on page 466](#).
- 6 Remove the two screws (A) using a precision screwdriver, and then remove the sensor.



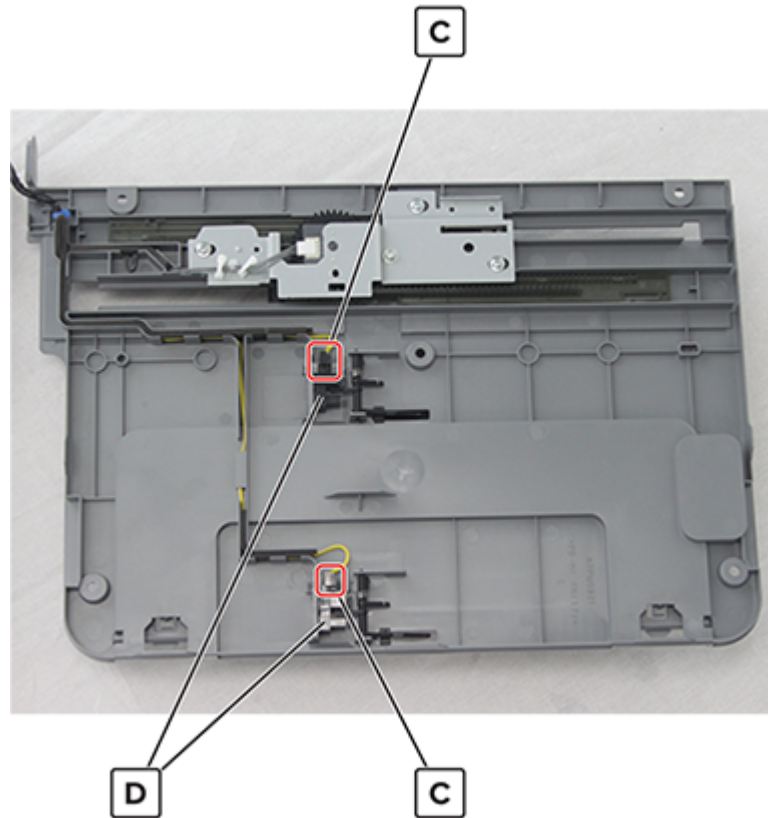
Sensors (MPF paper length) removal

- 1 Remove the MPF. See [“MPF removal” on page 460](#).
- 2 Remove the MPF tray. See [“MPF tray removal” on page 463](#).

- 3** Remove the five screws (A), and then remove the cover (B).



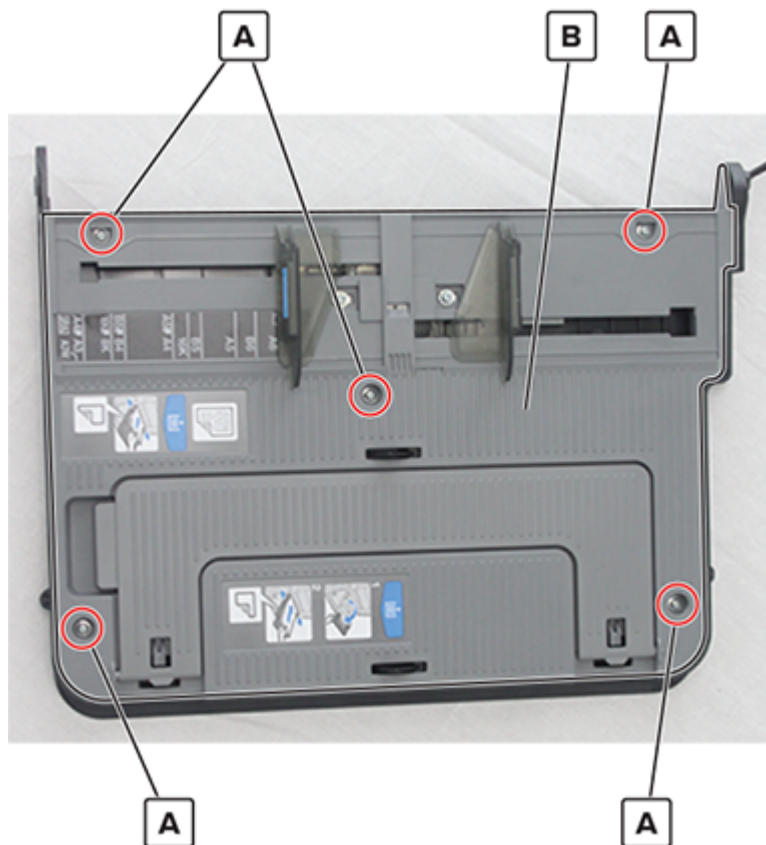
- 4** Disconnect the two cables (C), and then remove the sensors (D).



MPF paper guide pinion gear removal

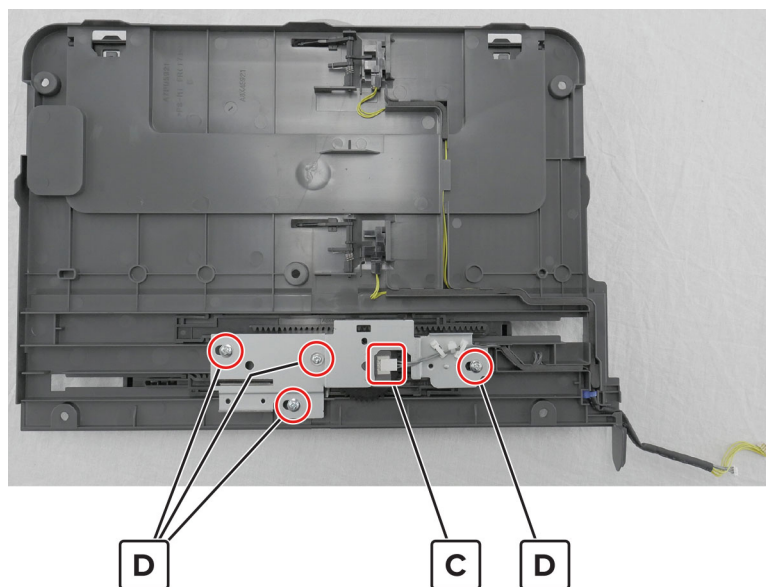
- 1** Remove the right door lock. See [“Right door lock removal” on page 458.](#)
- 2** Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 3** Remove the MPF. See [“MPF removal” on page 460.](#)
- 4** Remove the MPF tray. See [“MPF tray removal” on page 463.](#)

- 5** Remove the five screws (A), and then remove the cover (B).



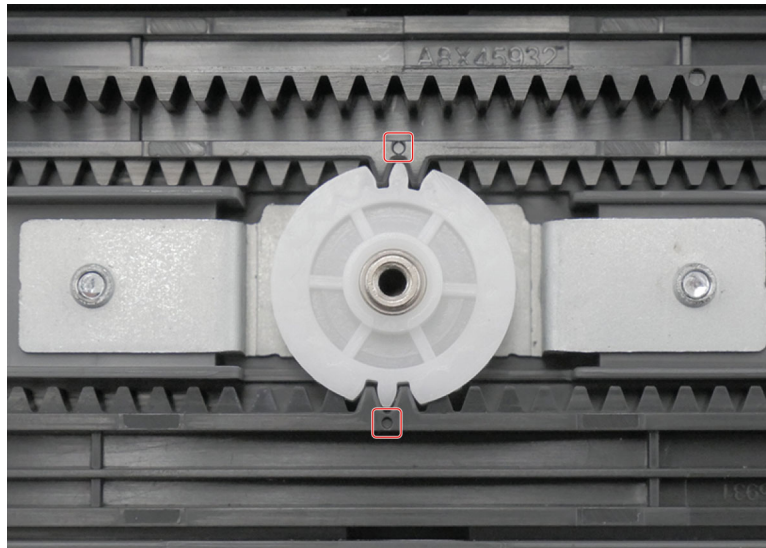
- 6** Disconnect the cable (C), and then release it from its guides.

- 7** Remove the four screws (D), and then remove the bracket.



- 8** Remove the gear under the bracket.

Installation note: Take note of the positions of the gear and dots.

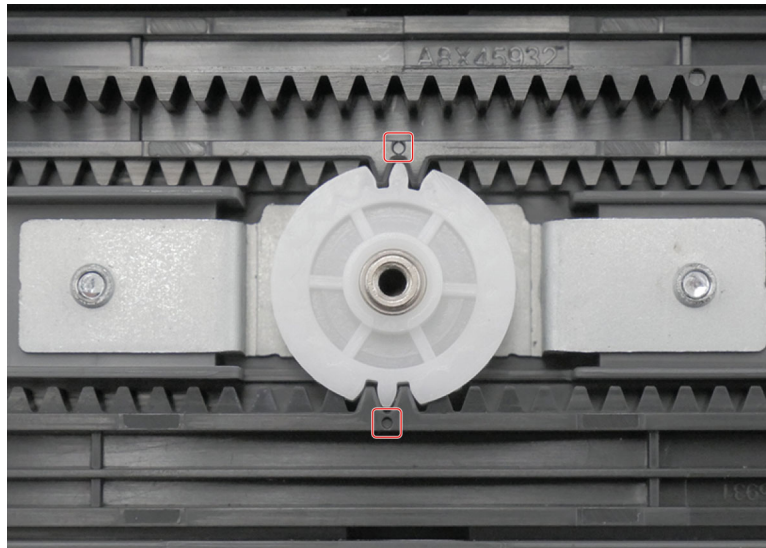


MPF rear paper guide removal

- 1 Remove the right door lock. See [“Right door lock removal” on page 458.](#)
- 2 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 3 Remove the MPF. See [“MPF removal” on page 460.](#)
- 4 Remove the MPF tray. See [“MPF tray removal” on page 463.](#)
- 5 Remove the MPF paper guide pinion gear. See [“MPF paper guide pinion gear removal” on page 471.](#)
- 6 Remove the guide.

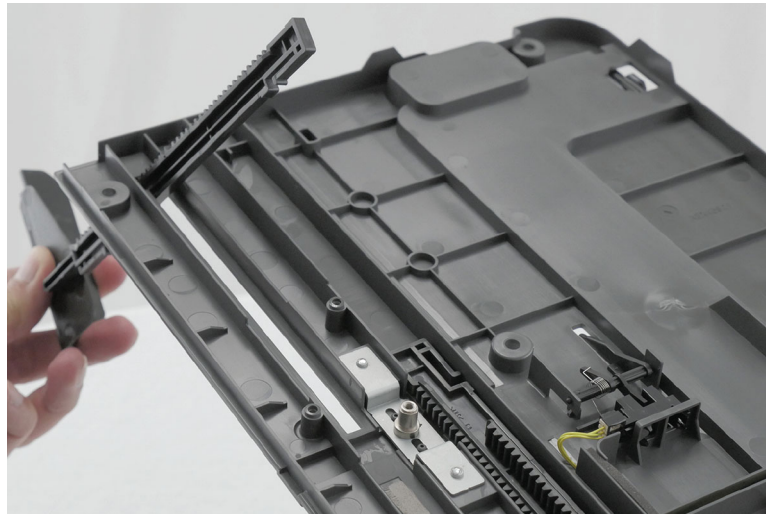


Installation note: Take note of the positions of the gear and dots.

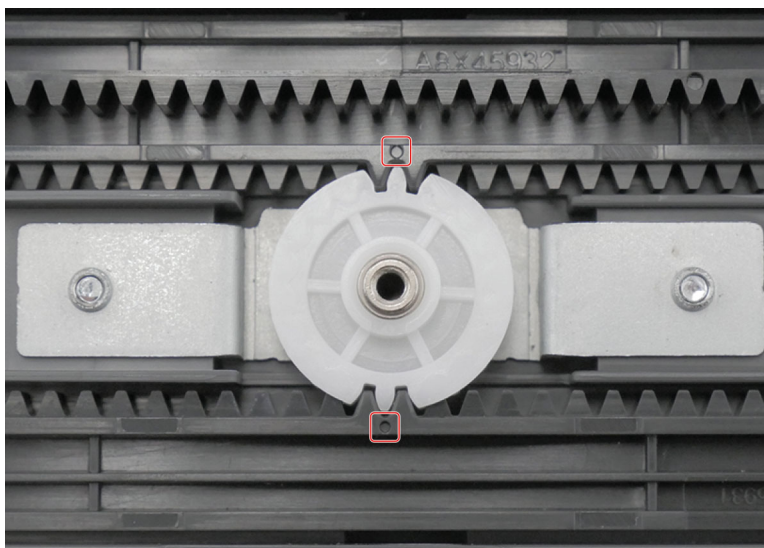


MPF front paper guide removal

- 1 Remove the right door lock. See [“Right door lock removal” on page 458.](#)
- 2 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 3 Remove the MPF. See [“MPF removal” on page 460.](#)
- 4 Remove the MPF tray. See [“MPF tray removal” on page 463.](#)
- 5 Remove the MPF paper guide pinion gear. See [“MPF paper guide pinion gear removal” on page 471.](#)
- 6 Remove the guide.

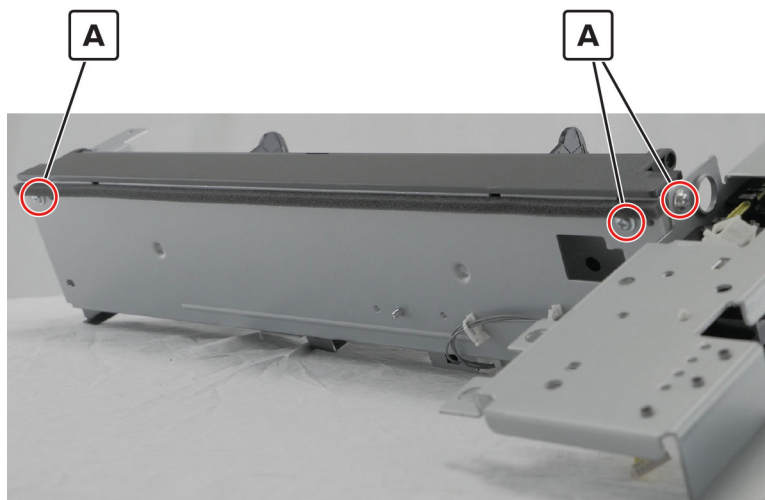


Installation note: Take note of the positions of the gear and dots.

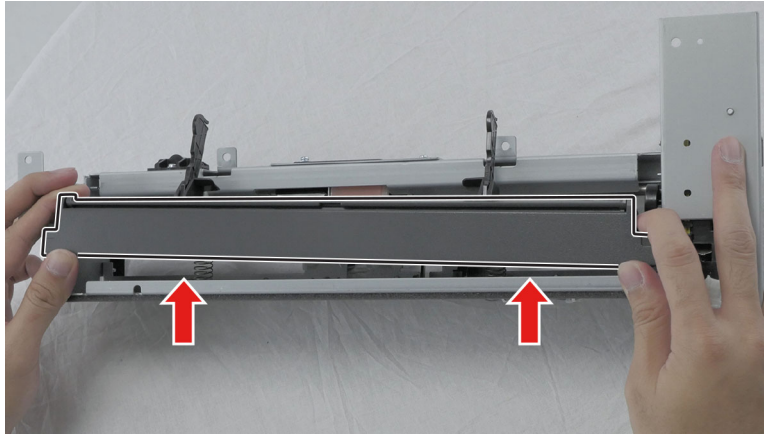


MPF rear paper guide 2 removal

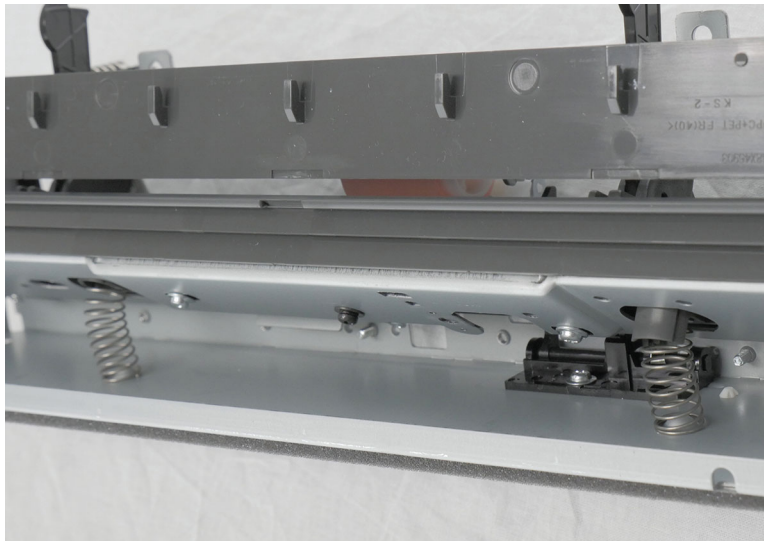
- 1 Remove the right door lock. See [“Right door lock removal” on page 458.](#)
- 2 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 3 Remove the MPF. See [“MPF removal” on page 460.](#)
- 4 Remove the MPF tray. See [“MPF tray removal” on page 463.](#)
- 5 Remove the three screws (A).



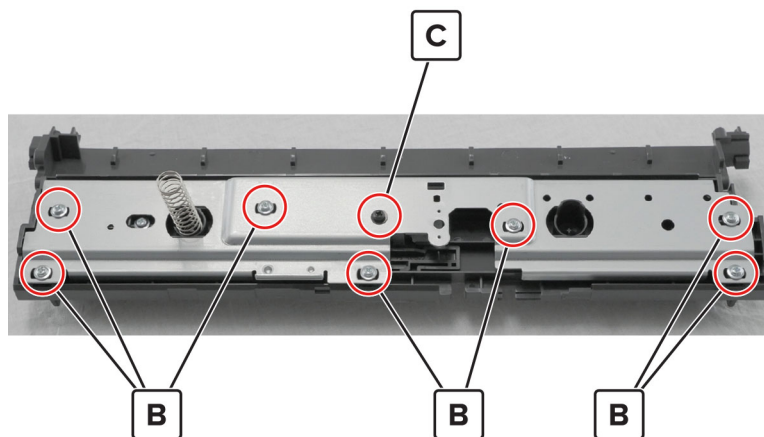
- 6 Push the cover to release, and then remove it.



Installation note: Make sure that the springs are aligned.

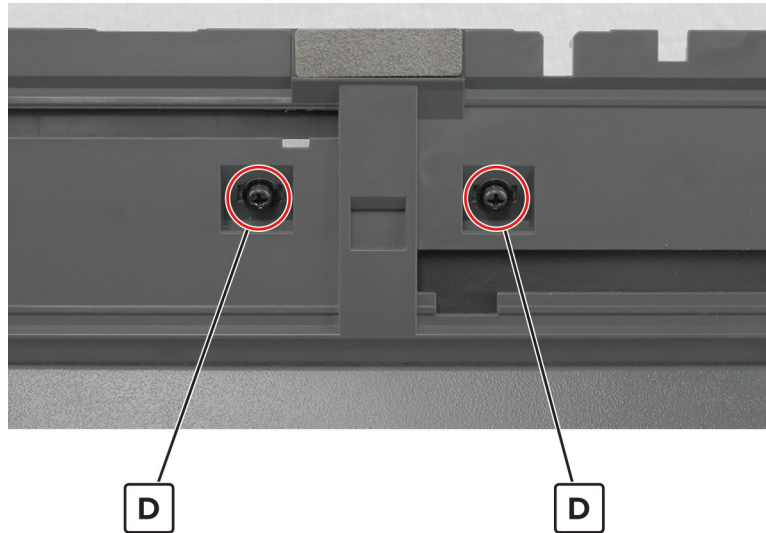


- 7 Remove the eight screws (B, C), and then remove the bracket.



Parts removal

- 8** Remove the two screws (D), and then remove the bracket at the back.



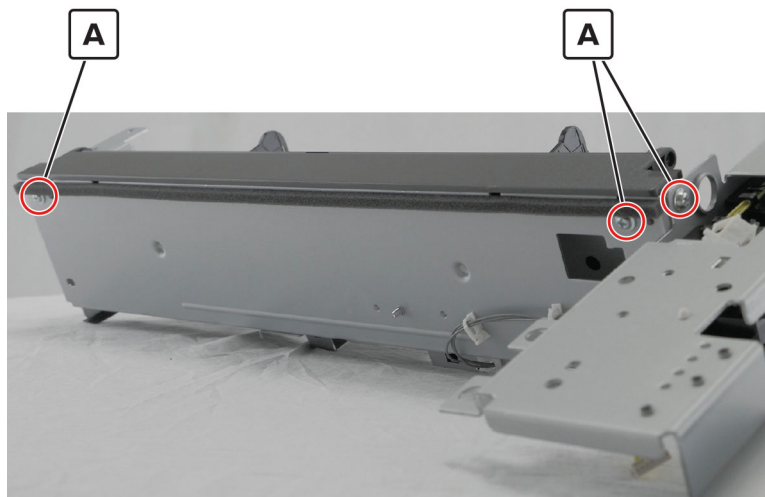
- 9** Remove the guide.



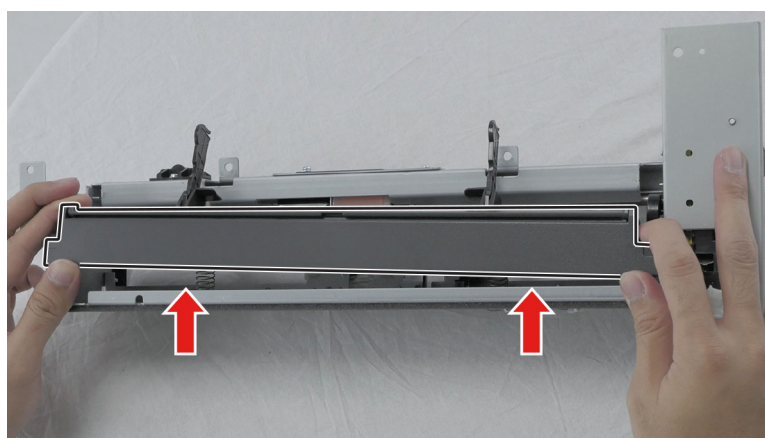
MPF front paper guide 2 removal

- 1** Remove the right door lock. See [“Right door lock removal” on page 458.](#)
- 2** Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 3** Remove the MPF. See [“MPF removal” on page 460.](#)
- 4** Remove the MPF tray. See [“MPF tray removal” on page 463.](#)

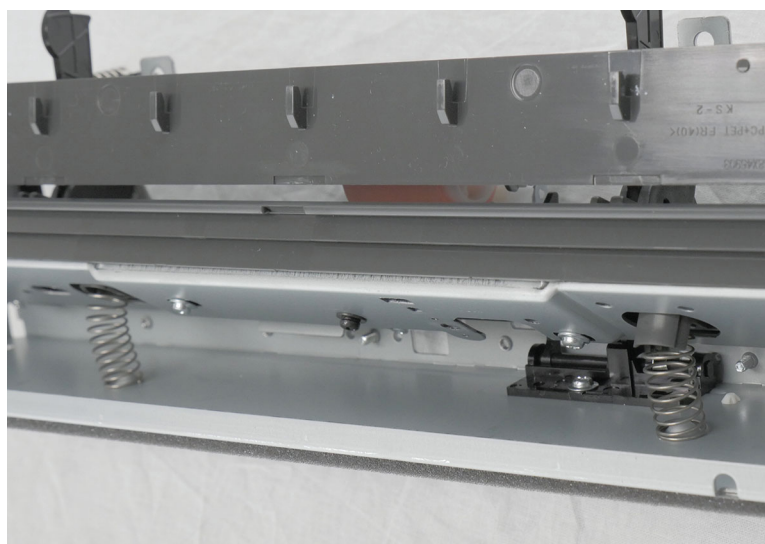
5 Remove the three screws (A).



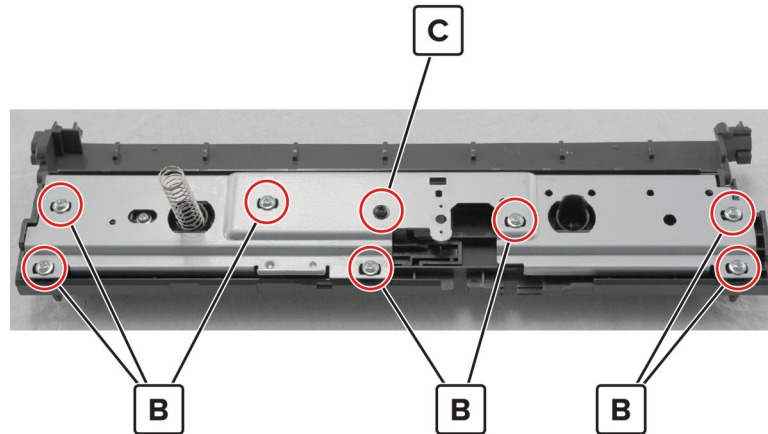
6 Push the cover to release, and then remove it.



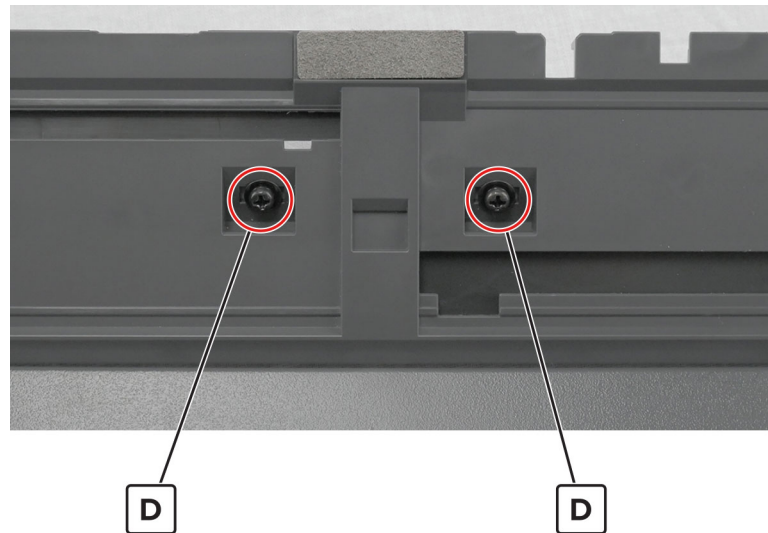
Installation note: Make sure that the springs are aligned.



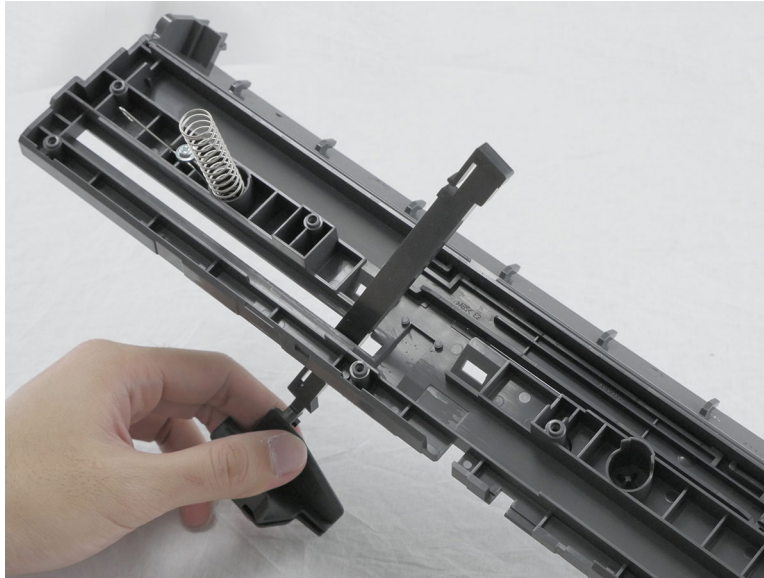
- 7** Remove the eight screws (B, C), and then remove the bracket.



- 8** Remove the two screws (D), and then remove the bracket at the back.

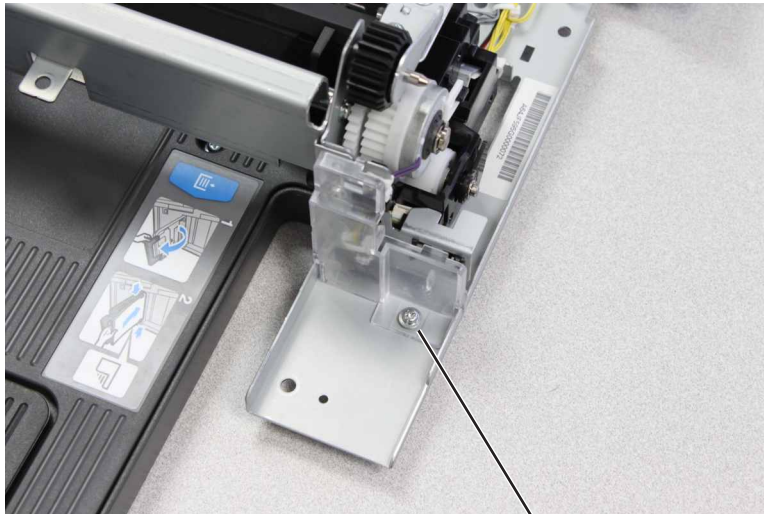


- 9** Remove the guide.



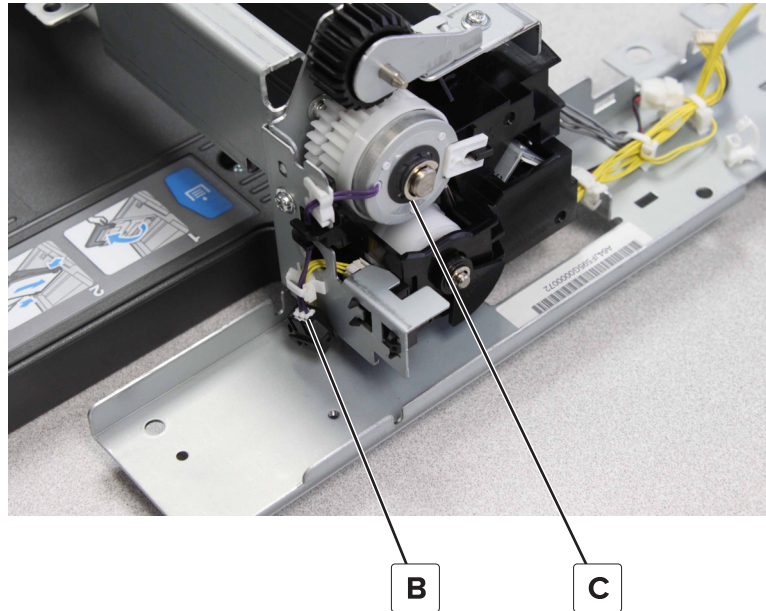
MPF feed clutch removal

- 1** Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 2** Remove the MPF. See [“MPF removal” on page 460.](#)
- 3** Remove the screw (A), and then remove the cover.



A

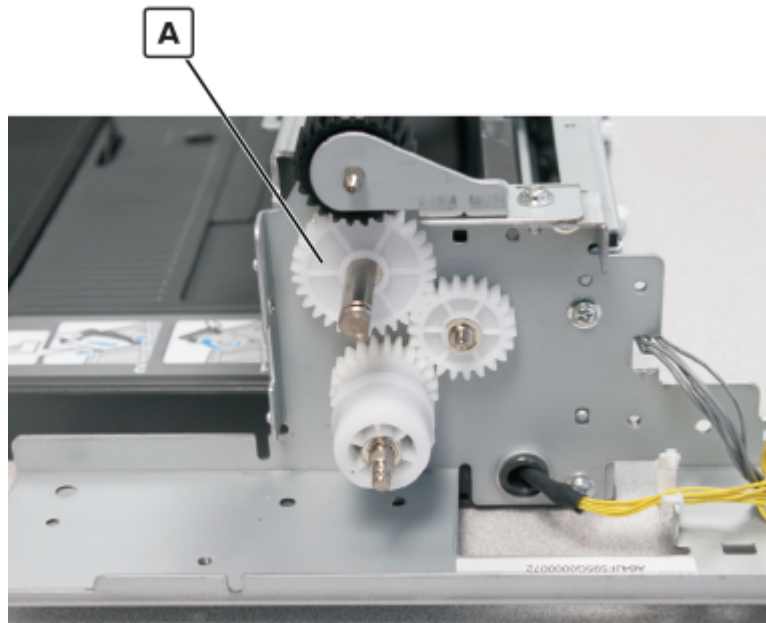
- 4 Disconnect the cable (B), and then release the clip (C).



- 5 Remove the clutch.

MPF feed clutch gear removal

- 1 Remove tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 2 Remove the MPF. See [“MPF removal” on page 460.](#)
- 3 Remove the MPF feed clutch. See [“MPF feed clutch removal” on page 480.](#)
- 4 Move away the MPF lift plate solenoid. See [“MPF lift plate solenoid removal” on page 482.](#)
- 5 Remove the gear (A).

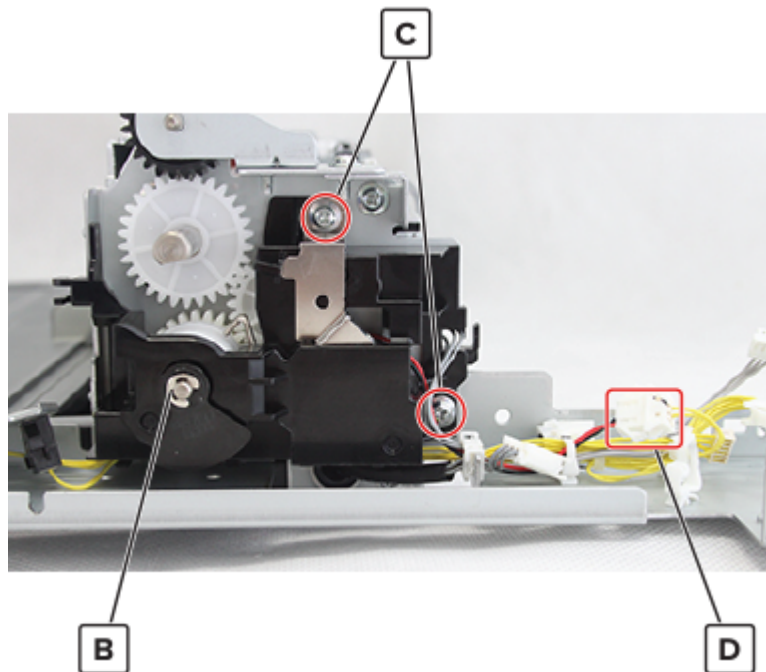


MPF lift plate solenoid removal

- 1 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 2 Remove the MPF. See [“MPF removal” on page 460.](#)
- 3 Remove the MPF feed clutch. See [“MPF feed clutch removal” on page 480.](#)
- 4 Remove the screw (A), and then move away the bracket.

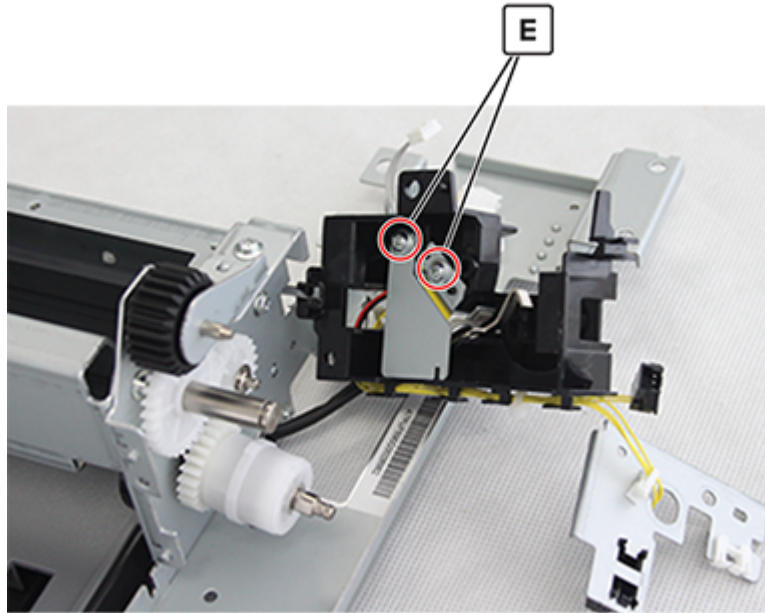
**A**

- 5 Remove the E-clip (B), remove the two screws (C), and then disconnect the cable (D).

**B****C****D**

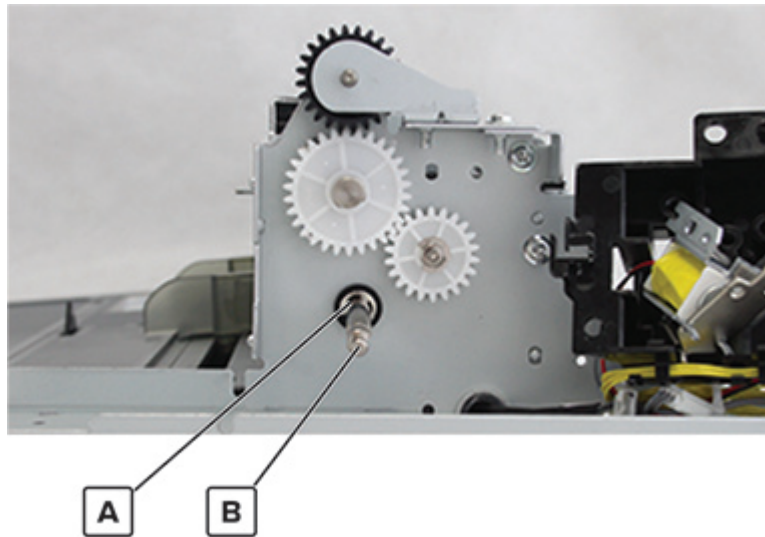
- 6 Remove the bracket.

- 7 Remove the two screws (E), and then remove the solenoid.

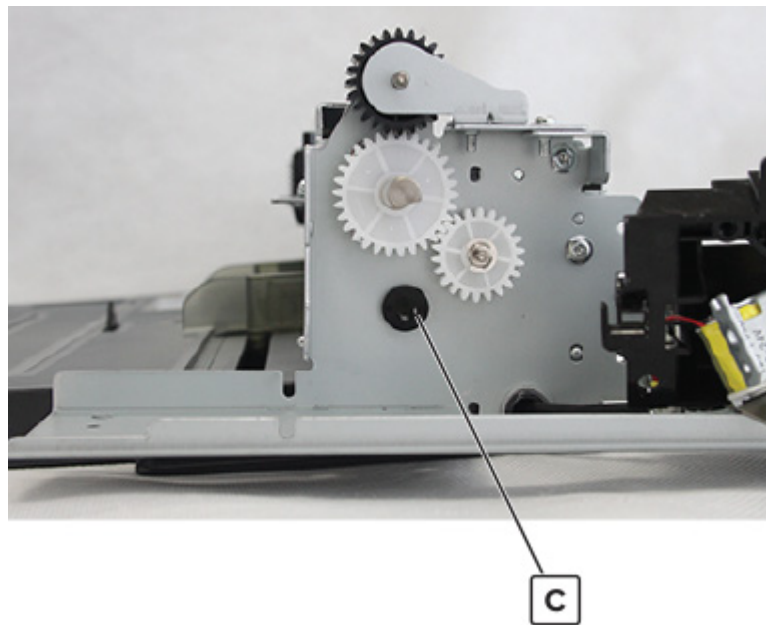


MPF lift plate cam removal

- 1 Remove the MPF lift plate clutch gear. See [“MPF lift plate clutch gear removal” on page 484.](#)
- 2 Remove the E-clip (A) to release the bracket, and then remove the cam (B) from the bracket.



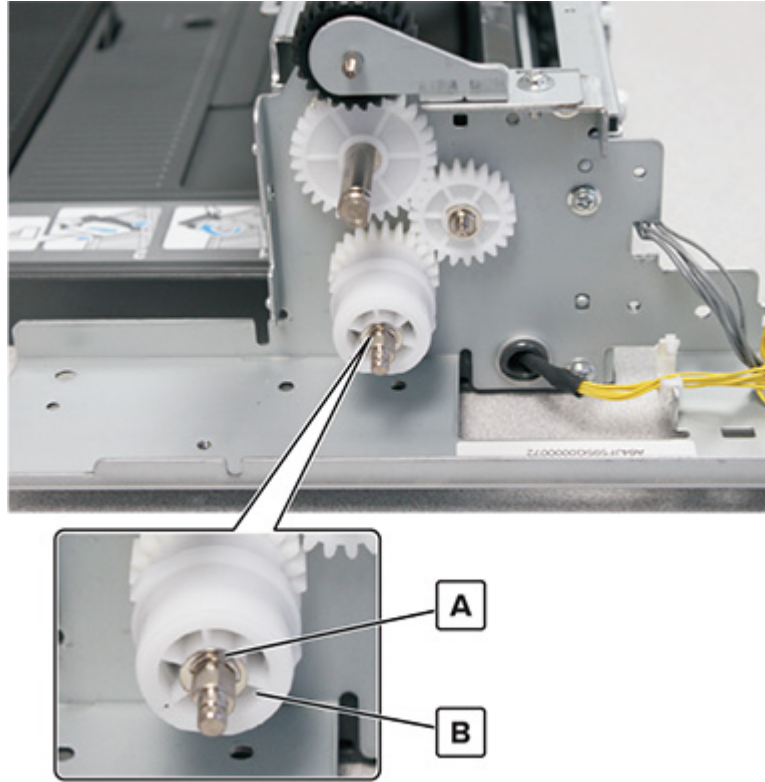
Warning—Potential Damage: Do not lose the bushing (C).



MPF lift plate clutch gear removal

- 1** Remove tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 2** Remove the MPF. See [“MPF removal” on page 460.](#)
- 3** Remove the MPF feed clutch. See [“MPF feed clutch removal” on page 480.](#)
- 4** Move away the MPF lift plate solenoid. See [“MPF lift plate solenoid removal” on page 482.](#)

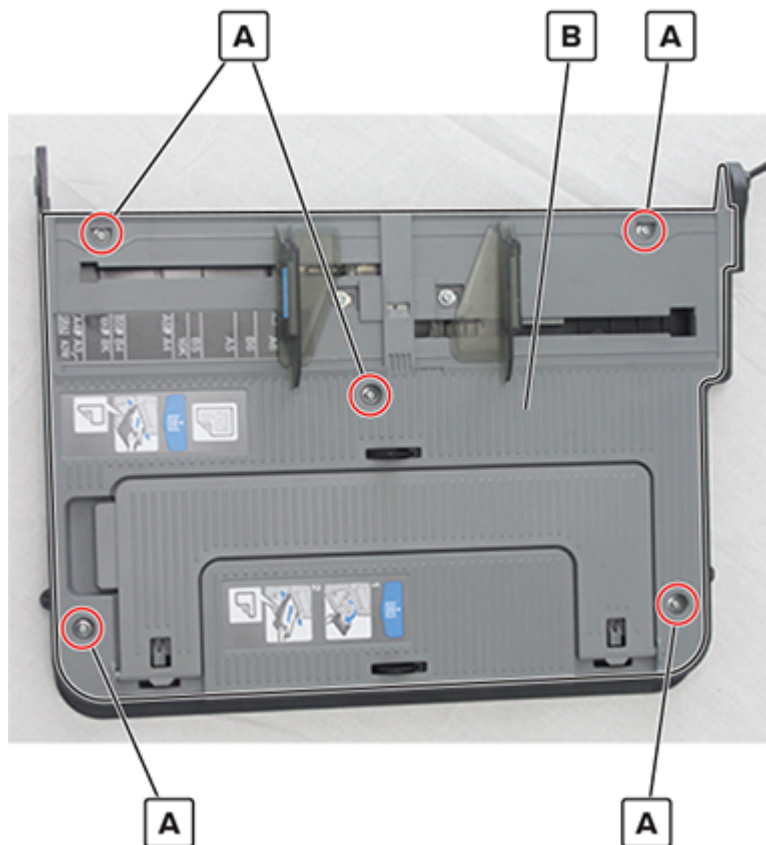
- 5** Remove the E-clip (A), and then remove the gear (B).



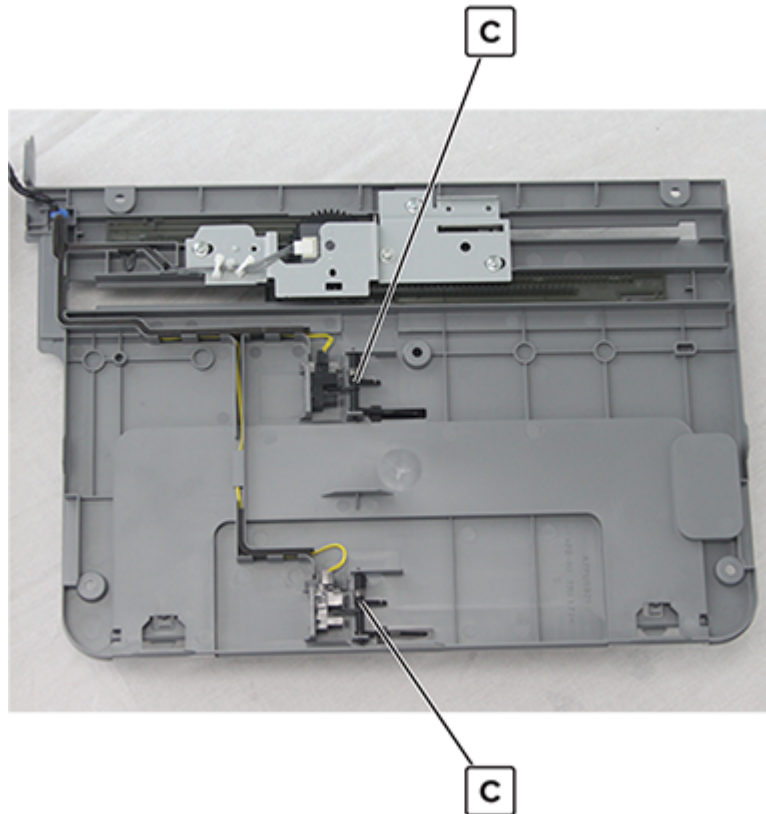
MPF paper length actuators removal

- 1** Remove the MPF. See [“MPF removal” on page 460](#).
- 2** Remove the MPF tray. See [“MPF tray removal” on page 463](#).

- 3** Remove the five screws (A), and then remove the cover (B).



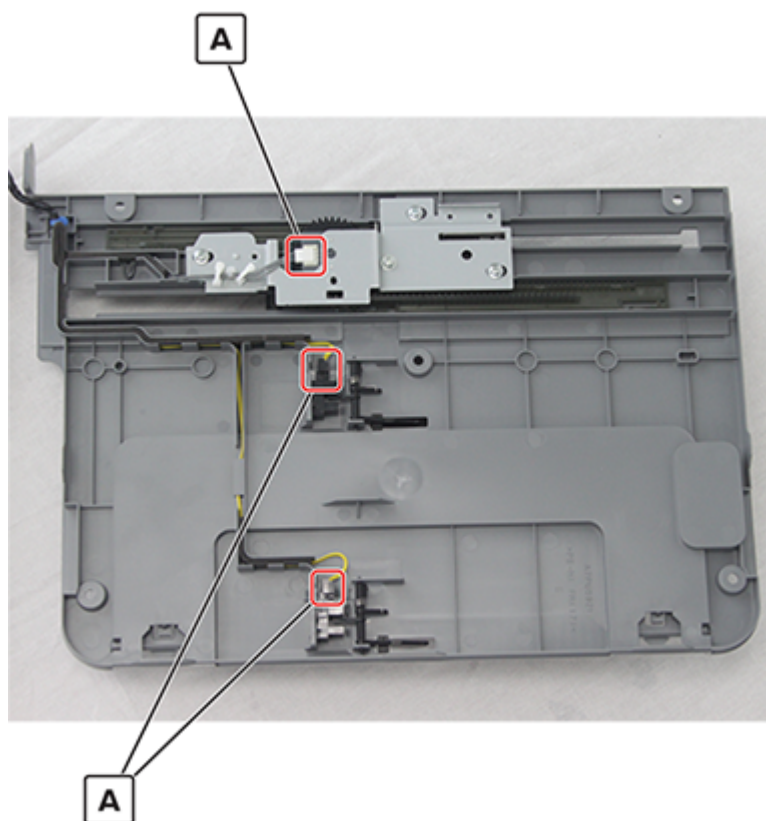
- 4 Remove the two actuators (C).



MPF paper size sensor cable removal


- 1 Remove the MPF. See [“MPF removal” on page 460](#).
- 2 Remove the MPF tray. See [“MPF tray removal” on page 463](#).
- 3 Disconnect the three cables (A), and then remove the cables from the cable guides.

Note: Pay attention to the cable routing.

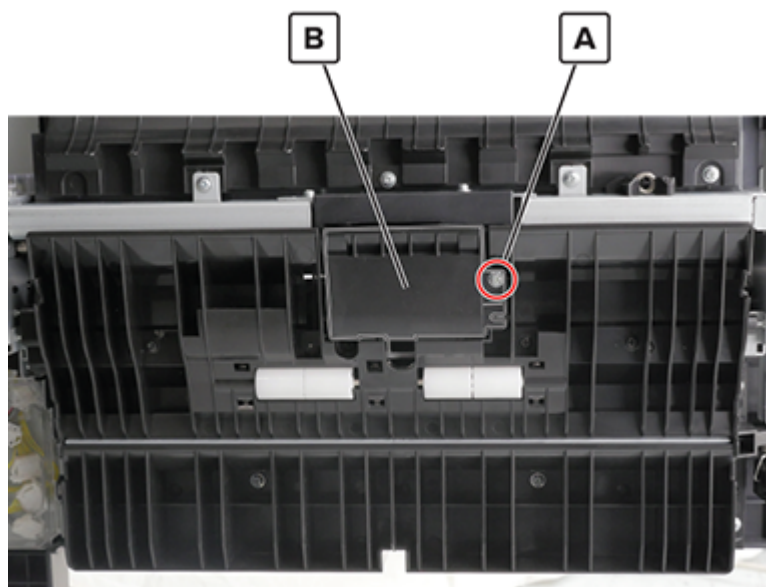


MPF separator access cover removal

- 1 Open the right door.

 **CAUTION—HOT SURFACE:** The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

- 2 Remove the screw (A), and then remove the cover (B).



Parts removal

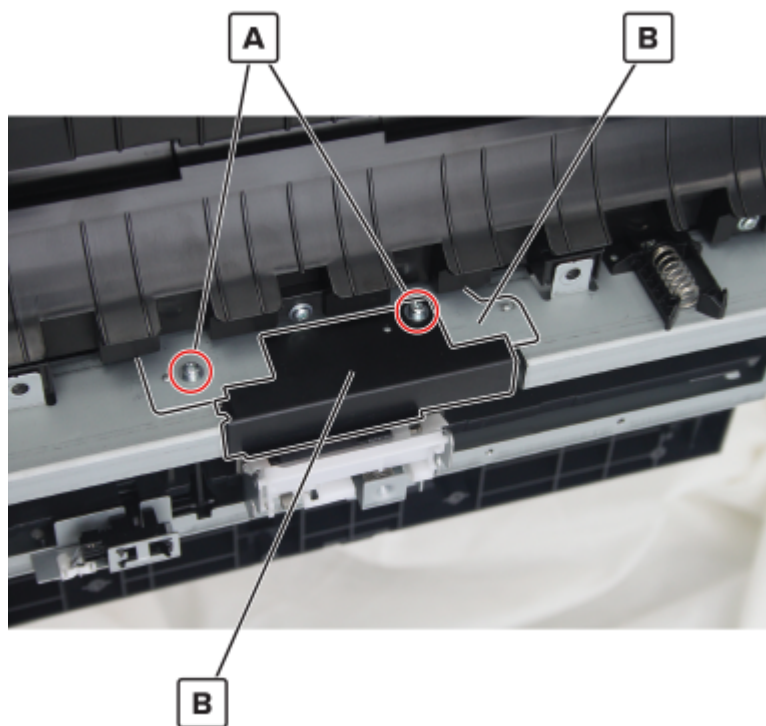
MPF pick roller removal

- 1 Open the right door, and then detach the registration assembly.

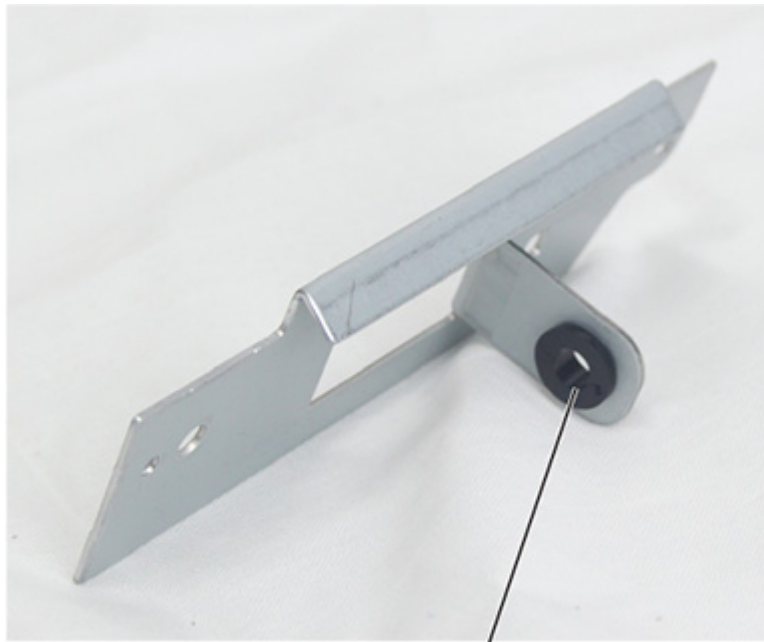


CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

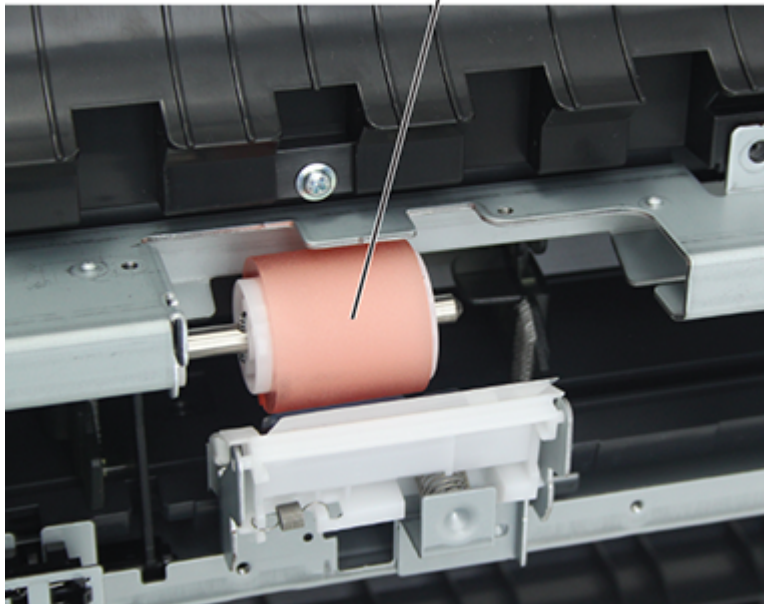
- 2 Remove the two screws (A), and then remove the two brackets (B).



Warning—Potential Damage: Do not lose the bushing (C).

**C**

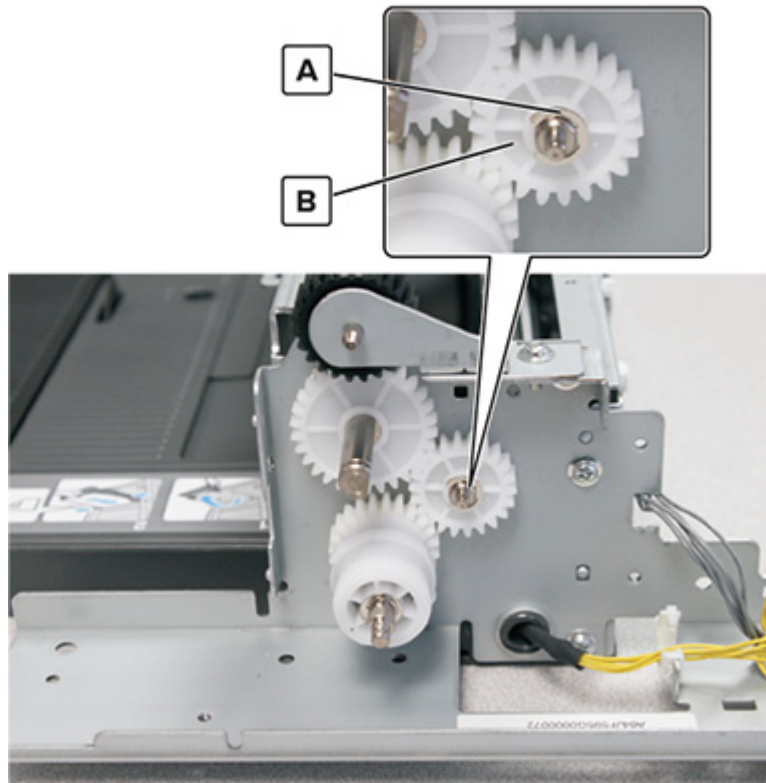
3 Remove the roller (D).

D

MPF separator gear removal

- 1** Remove tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 2** Remove the MPF. See [“MPF removal” on page 460.](#)

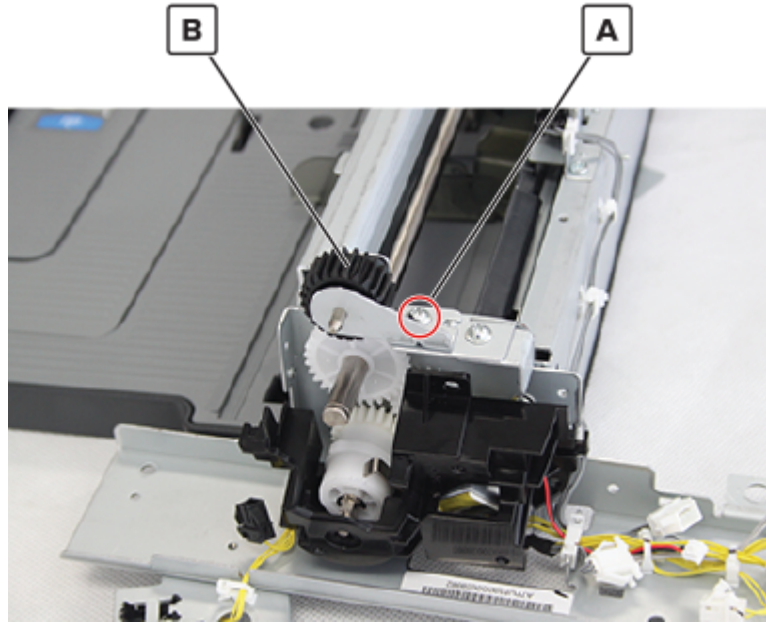
- 3 Remove the MPF feed clutch. See [“MPF feed clutch removal” on page 480](#).
- 4 Move away the MPF lift plate solenoid. See [“MPF lift plate solenoid removal” on page 482](#).
- 5 Remove the E-clip (A), and then remove the gear (B).



MPF separator idler gear removal

- 1 Remove tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459](#).
- 2 Remove the MPF. See [“MPF removal” on page 460](#).
- 3 Remove the MPF feed clutch. See [“MPF feed clutch removal” on page 480](#).

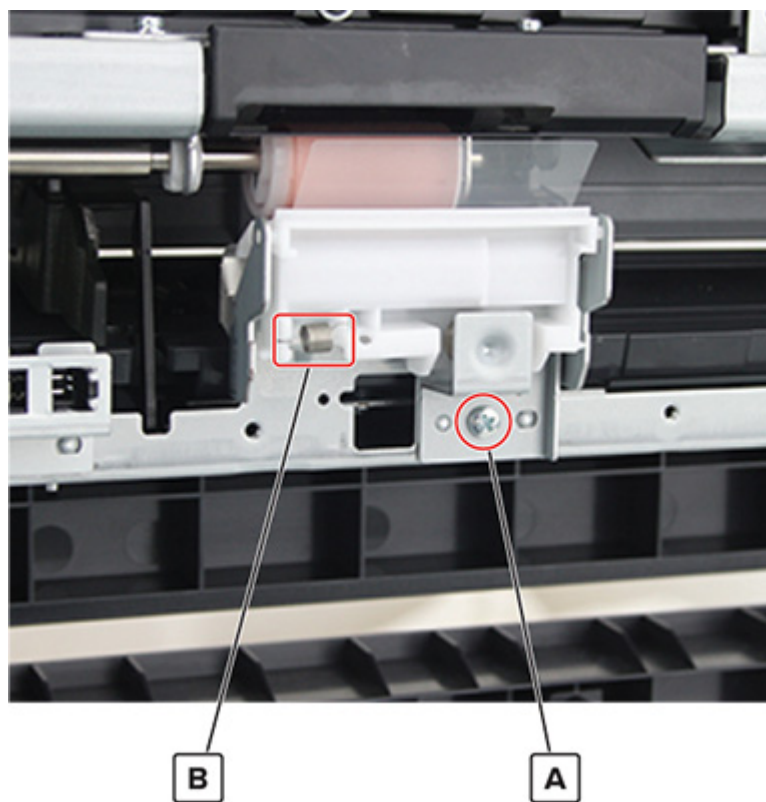
- 4 Remove the screw (A), and then remove the gear (B).



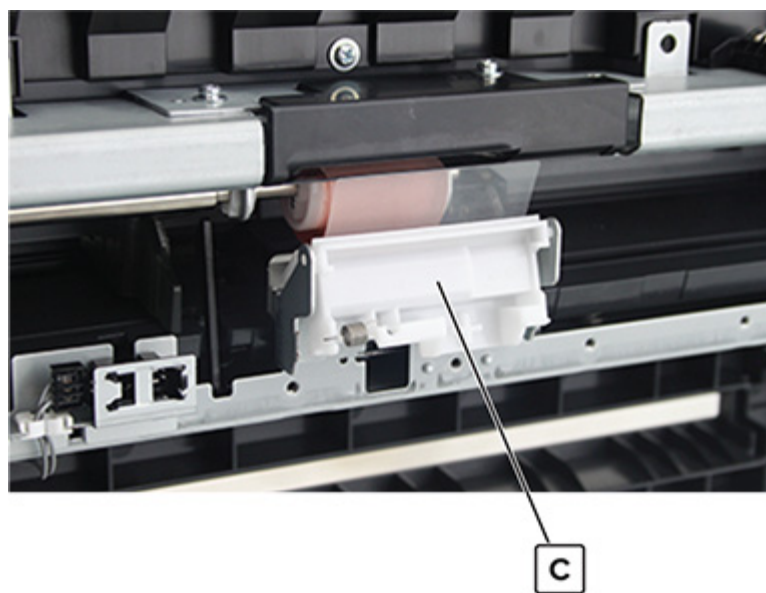
MPF separator roller removal

- 1 Remove tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459](#).
- 2 Remove the screw (A) to remove the bracket and separator spring.

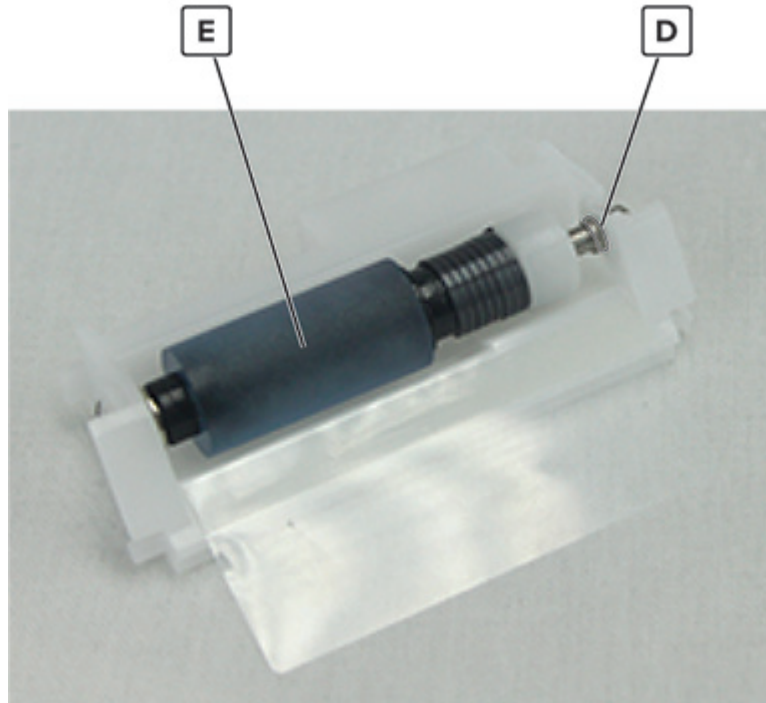
Warning—Potential Damage: Do not lose the spring (B).



3 Remove the separator roller assembly (C).



- 4 Remove the E-clip (D), and then remove the roller (E).



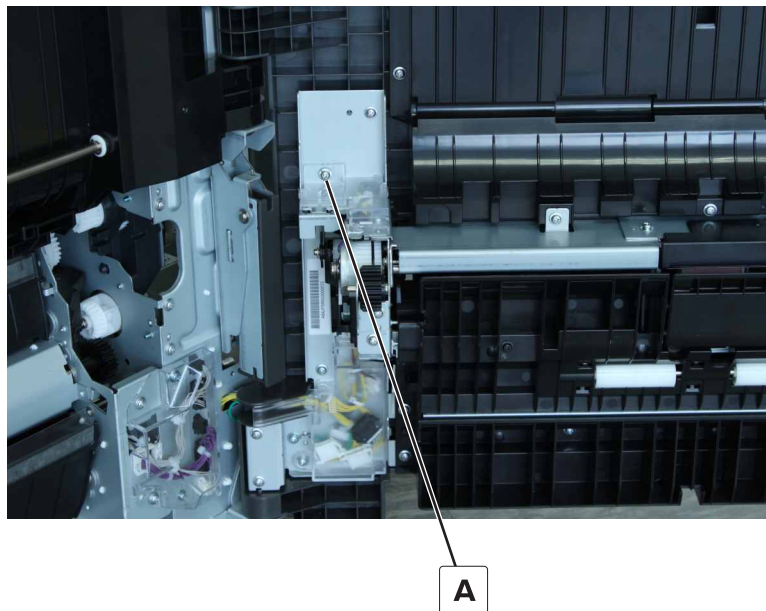
Sensor (MPF lift plate) removal

- 1 Open the right door, and then unlatch the registration unit handle.

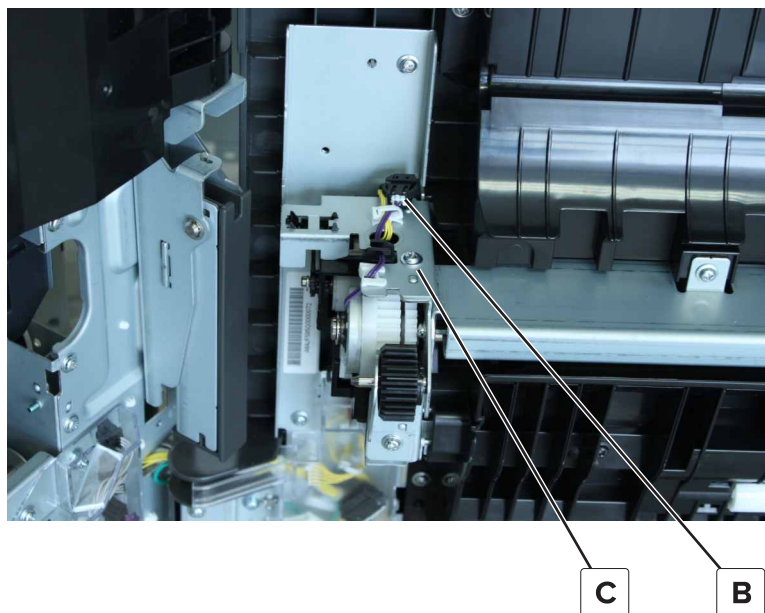


CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

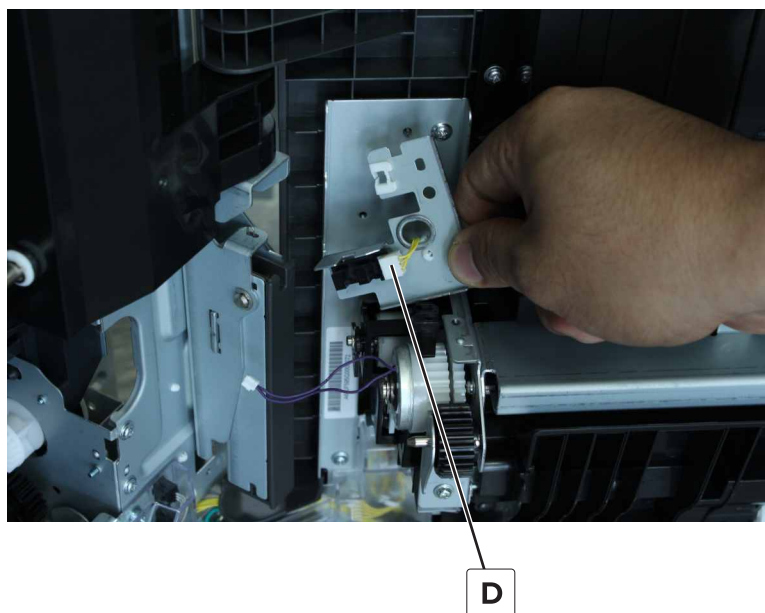
- 2 Remove the screw (A), and then remove the cover.



- 3 Disconnect the cable (B), and then remove the screw (C).



- 4 Lift the bracket, and then disconnect the cable (D).

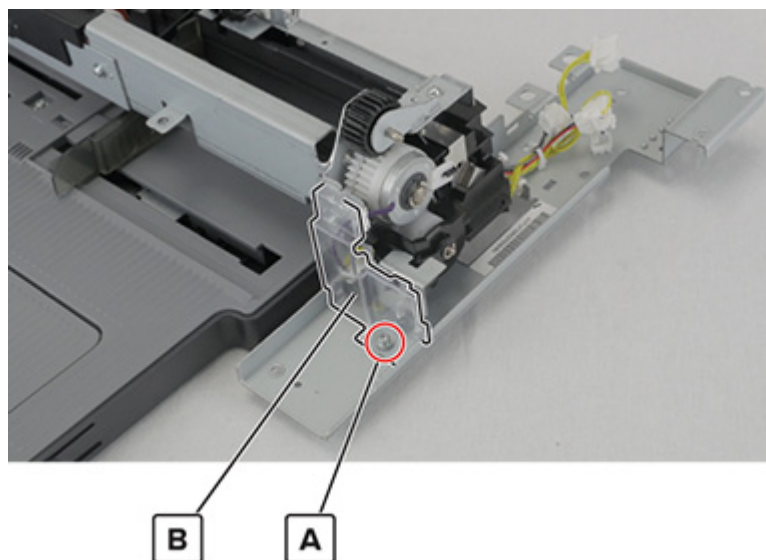


- 5 Remove the sensor.

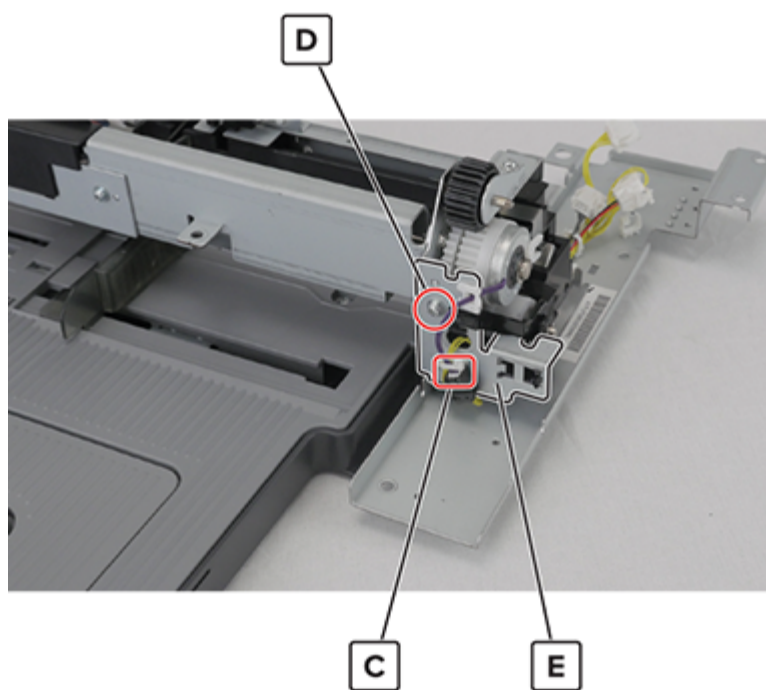
MPF lift plate sensor cable removal

- 1 Remove the right door lock. See [“Right door lock removal” on page 458.](#)
- 2 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459.](#)
- 3 Remove the MPF. See [“MPF removal” on page 460.](#)

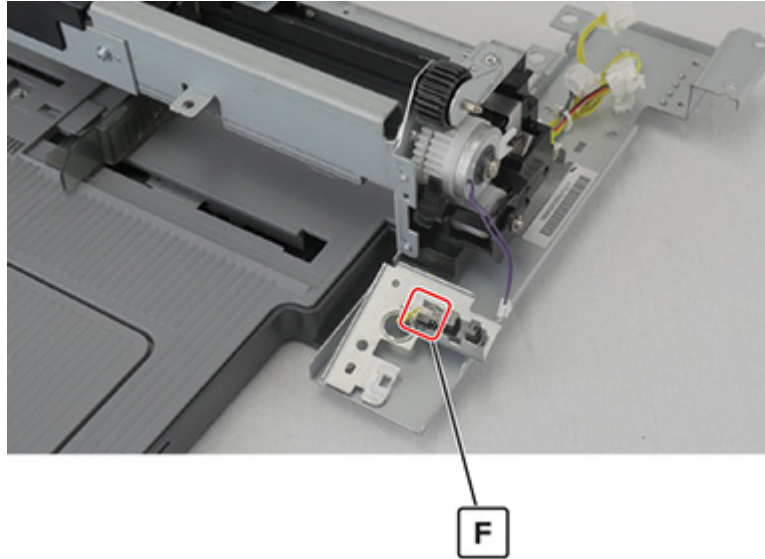
- 4** Remove the screw (A), and then remove the cover (B).



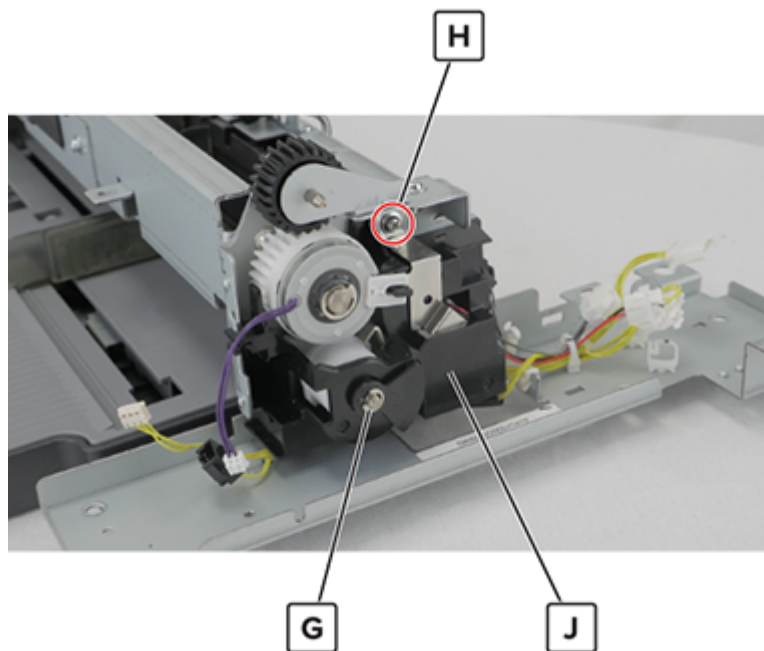
- 5** Disconnect the cable (C), remove the screw (D), and then remove the bracket (E).



- 6 Disconnect the cable (F).



- 7 Remove the E-clip (G), remove the screw (H), and then remove the bracket (J).

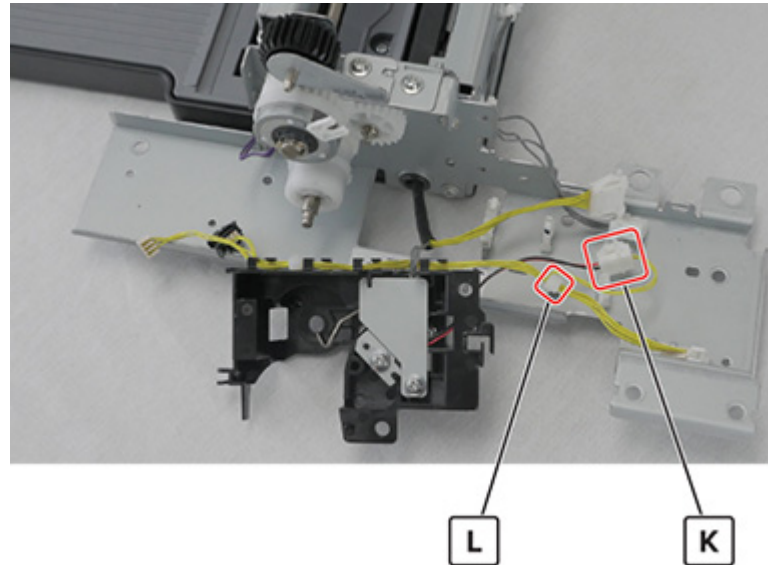


Warning—Potential Damage: Do not lose the ground plate and solenoid actuator.




Parts removal

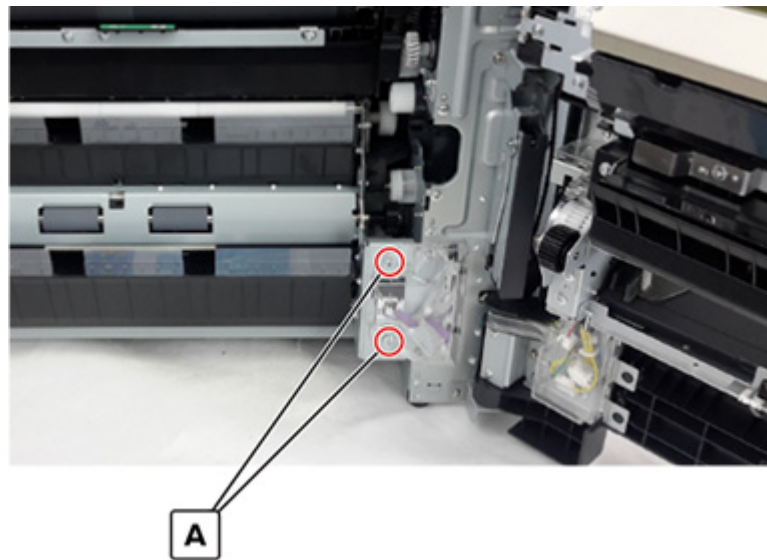
- 8 Disconnect the cable (K), and then remove the cable (L).



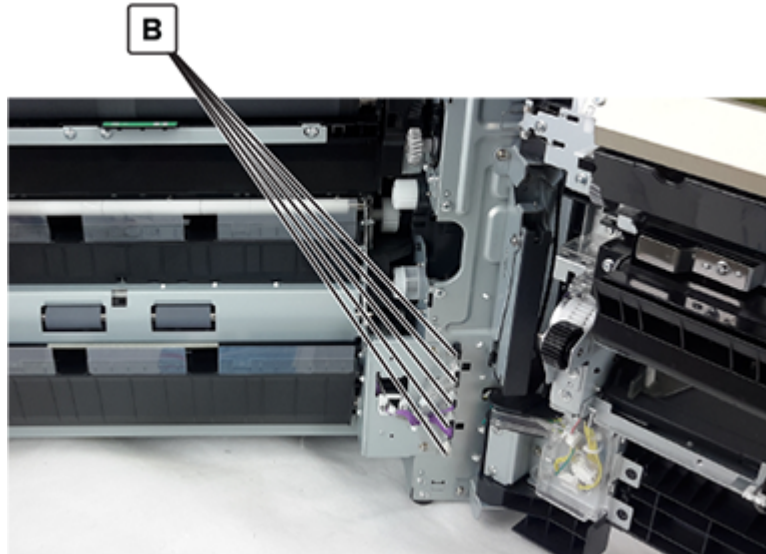
Tray 1 and 2 paper feed unit removal

- 1 Open the right door, remove the two screws (A), and then remove the cover.

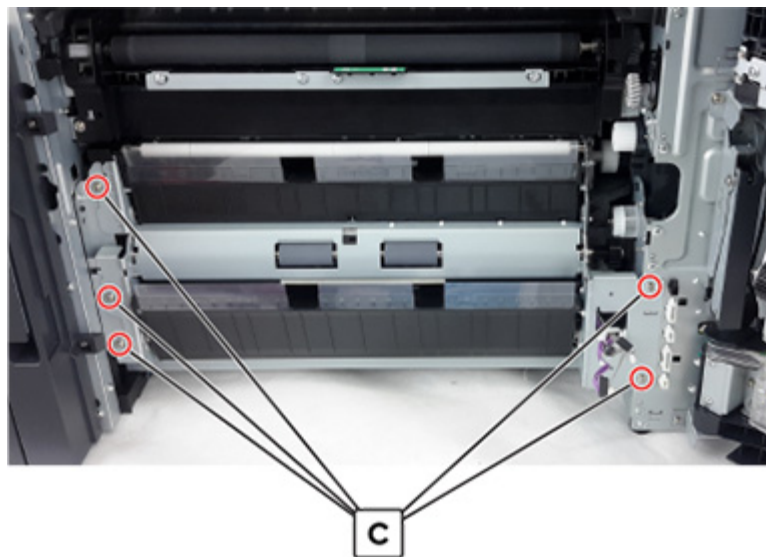
 **CAUTION—HOT SURFACE:** The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.



- 2 Open tray 1 and tray 2, and then disconnect the five cables (B).



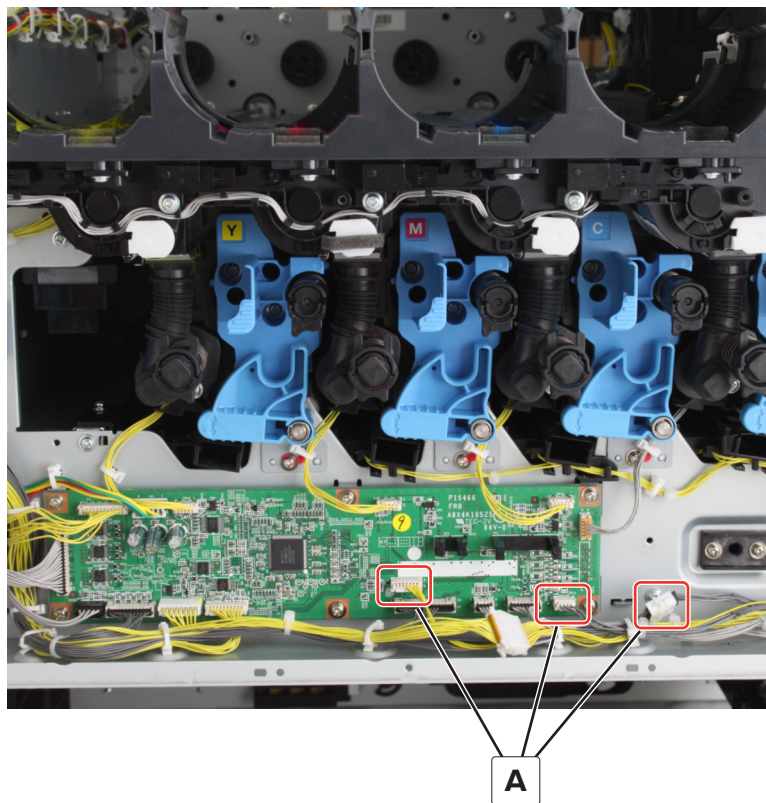
- 3 Remove the five screws (C), and then remove the unit.



Registration transport assembly removal

- 1 Remove the front door. See [“Front door removal” on page 541](#).
- 2 Remove the front inner cover. See [“Front inner cover removal” on page 571](#).
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572](#).

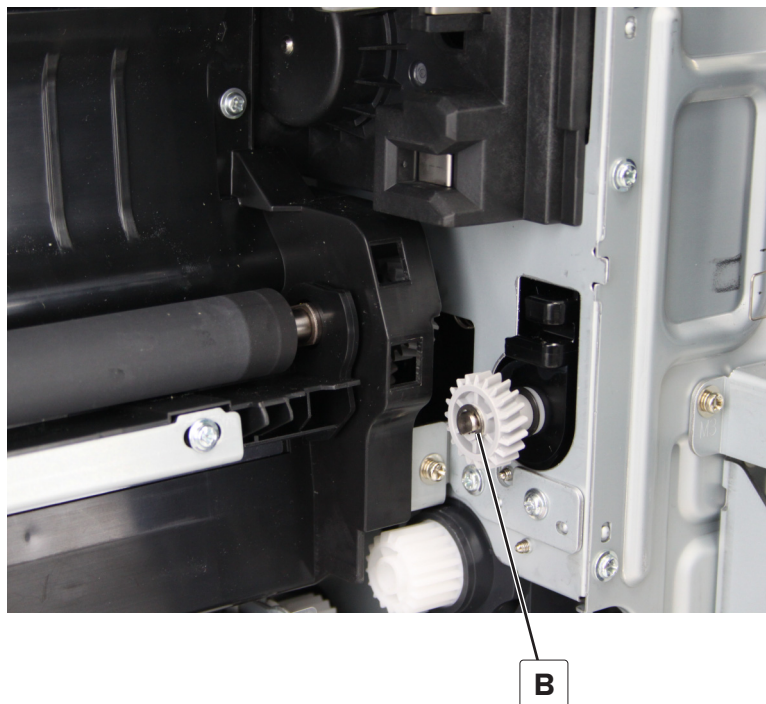
- 4 Disconnect the three cables (A).



- 5 Open the right door, remove the E-clip (B), and then remove the gear.

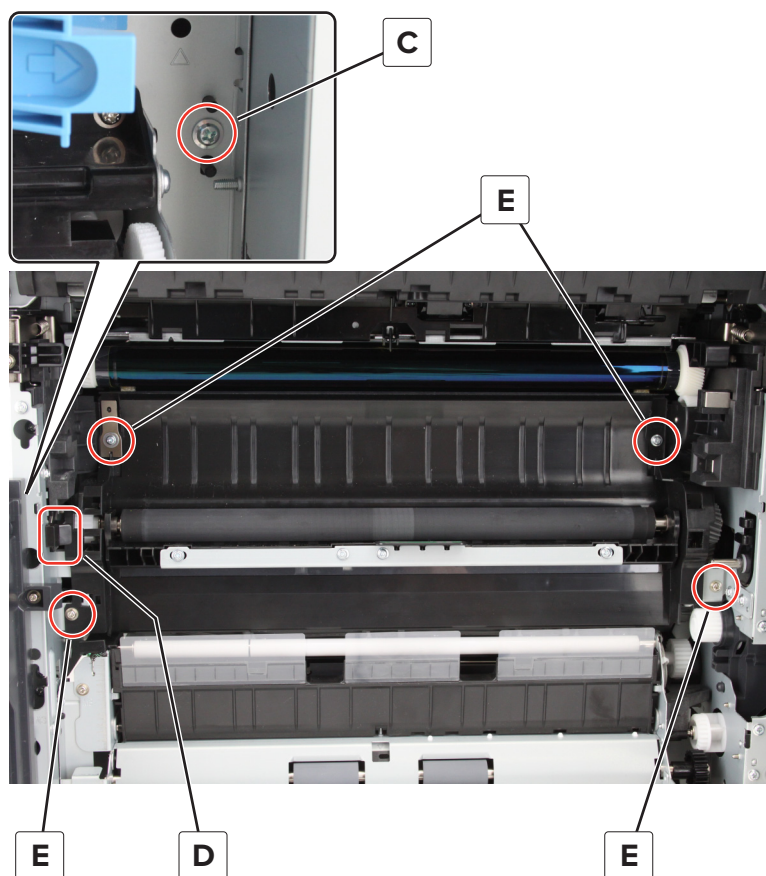


CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.



6 Remove the screw (C), and then remove the latch (D).

7 Remove the four screws (E).

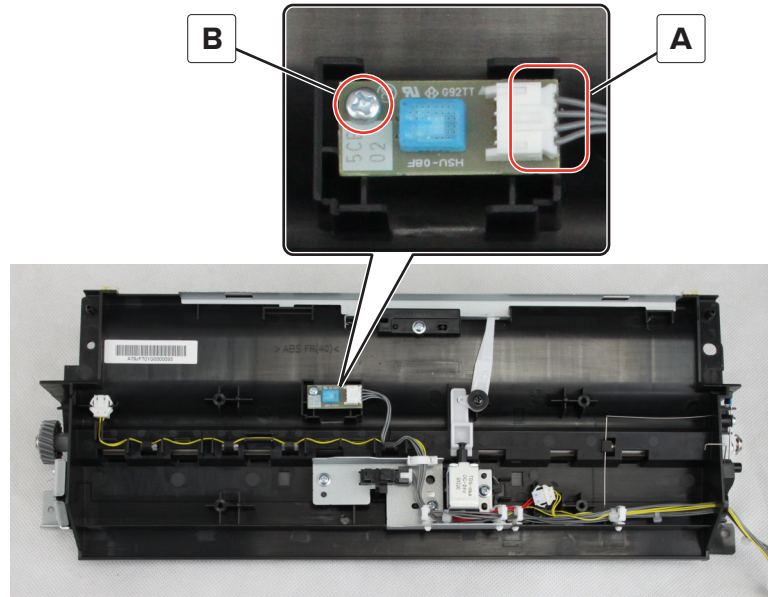


8 Remove the assembly.

Sensor (registration humidity) removal

- 1** Remove the front door. See [“Front door removal” on page 541.](#)
- 2** Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 3** Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4** Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499.](#)

- 5 Disconnect the cable (A), and then remove the screw (B).

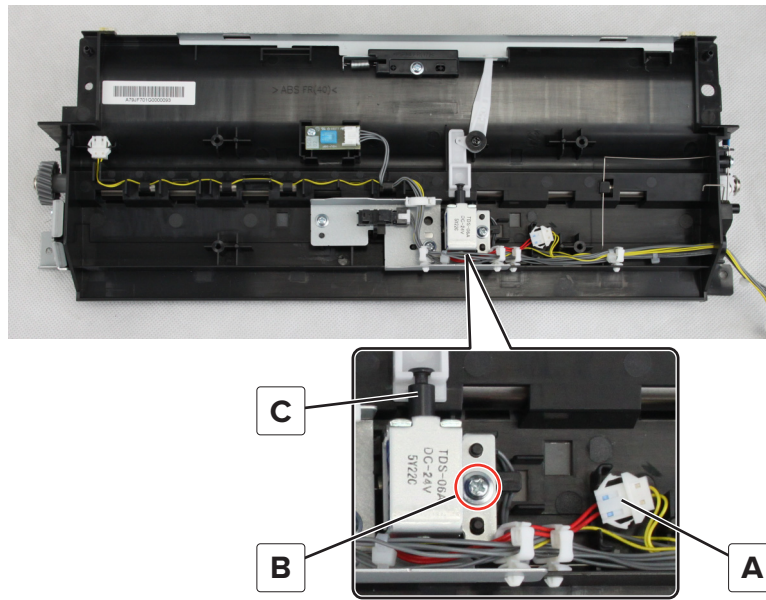


- 6 Remove the sensor.

Toner density solenoid removal

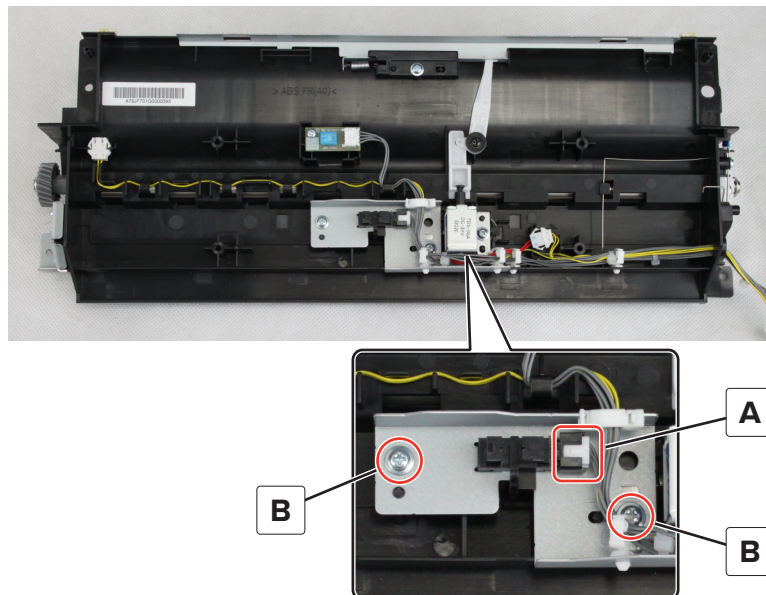
- 1 Remove the front door. See [“Front door removal” on page 541](#).
- 2 Remove the front inner cover. See [“Front inner cover removal” on page 571](#).
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572](#).
- 4 Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499](#).
- 5 Disconnect the cable (A), remove the screw (B), and then remove the solenoid.

Warning—Potential Damage: Do not lose the solenoid plunger (C).



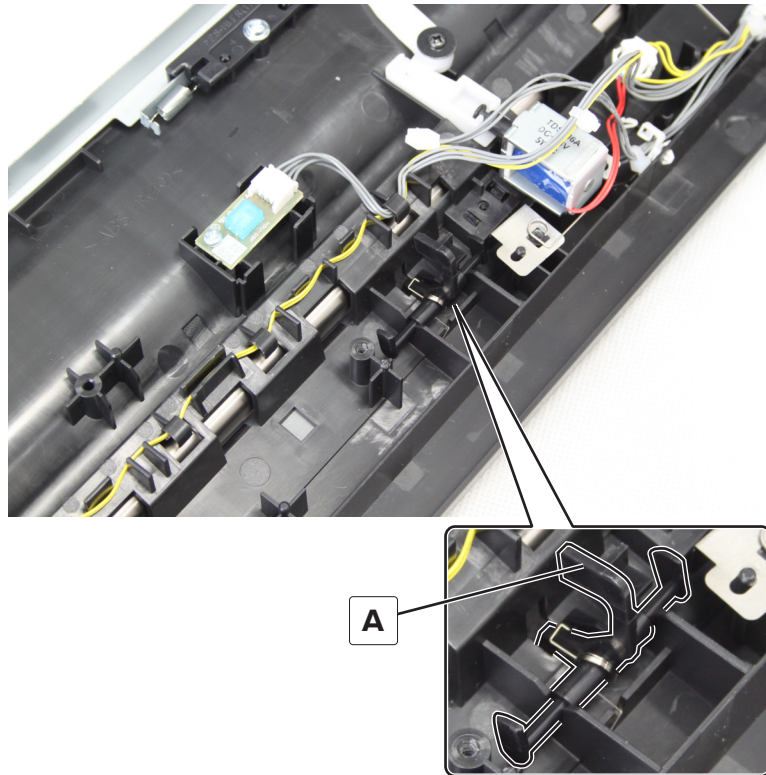
Sensor (registration) removal

- 1 Remove the front door. See [“Front door removal” on page 541.](#)
- 2 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4 Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499.](#)
- 5 Disconnect the cable (A), and then release it from the sensor bracket.
- 6 Remove the two screws (B), and then remove the sensor bracket.



- 7 Remove the sensor.

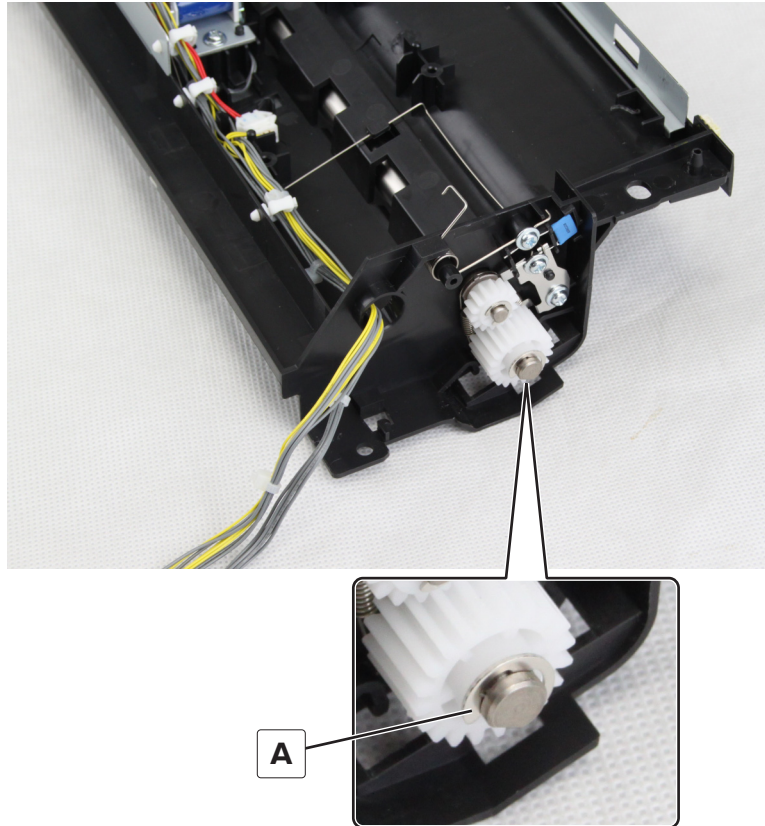
Installation note: Make sure that the sensor actuator (A) is properly installed. Toggle the actuator to check it for proper operation.



Registration primary gear removal

- 1 Remove the front door. See [“Front door removal” on page 541.](#)
- 2 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4 Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499.](#)

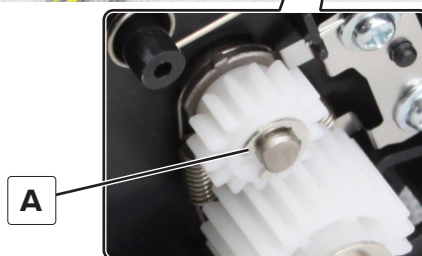
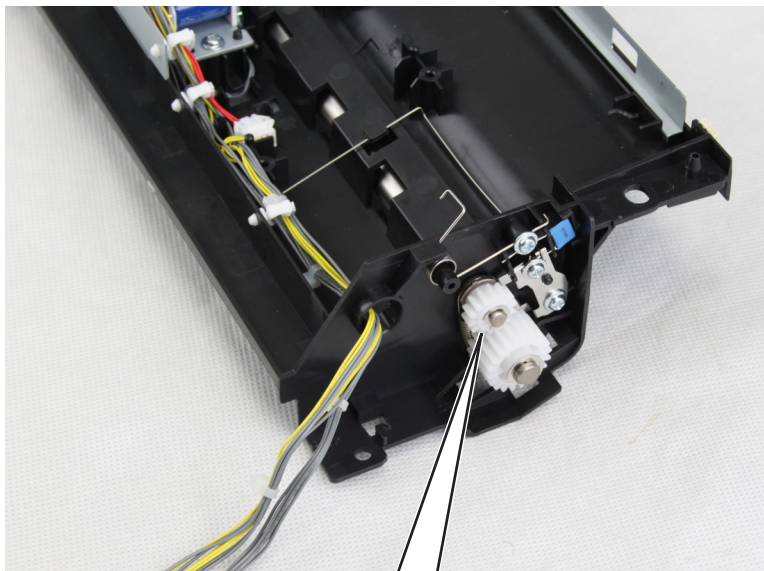
- 5** Remove the E-clip (A), and then remove the gear.



Registration secondary gear removal

- 1** Remove the front door. See [“Front door removal” on page 541.](#)
- 2** Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 3** Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4** Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499.](#)

- 5** Remove the E-clip (A), and then remove the gear.



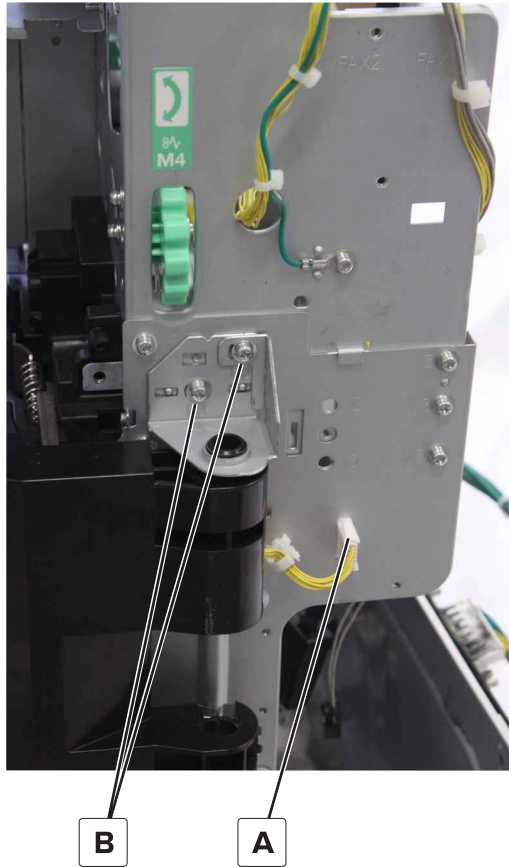
Registration unit assembly removal

- 1 Remove the right door. See [“Right door removal” on page 430](#).



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

- 2 Disconnect the cable (A), and then remove the two screws (B).



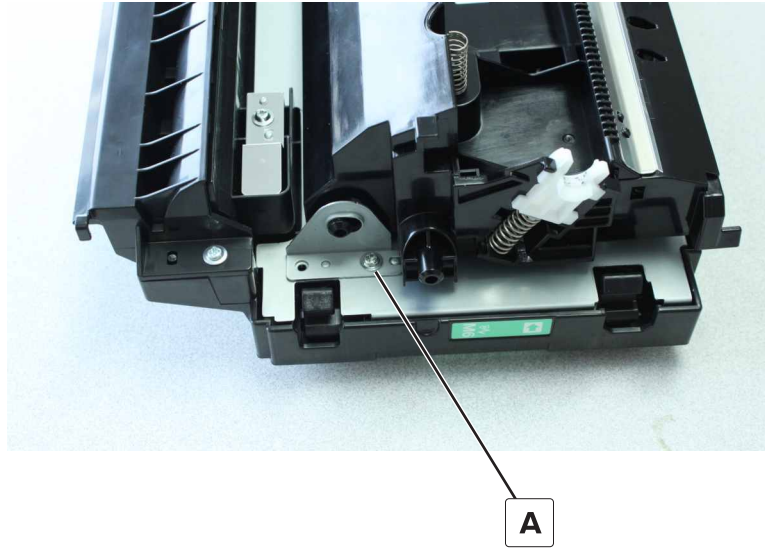
- 3 Lift the registration unit to release, and then remove.

Registration unit sub-assembly removal

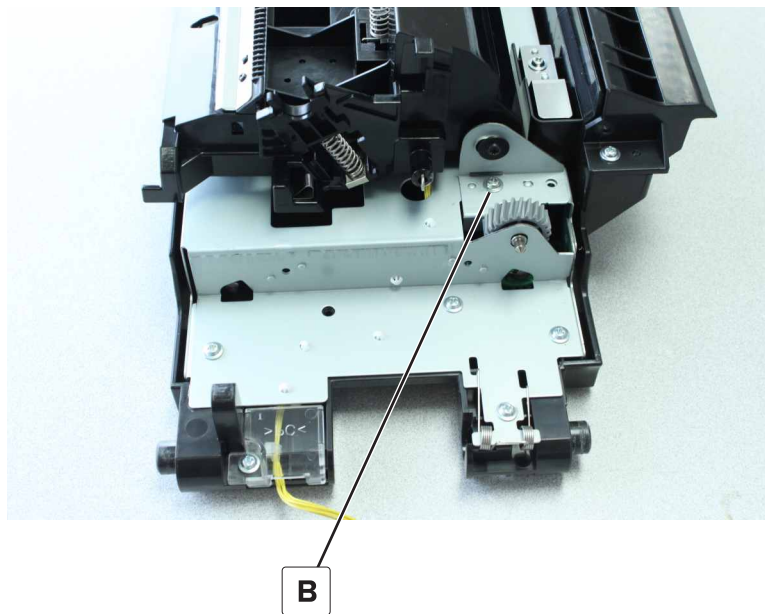
Note: This part is not a FRU.

- 1 Remove the right door. See [“Right door removal” on page 430](#).
- 2 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507](#).

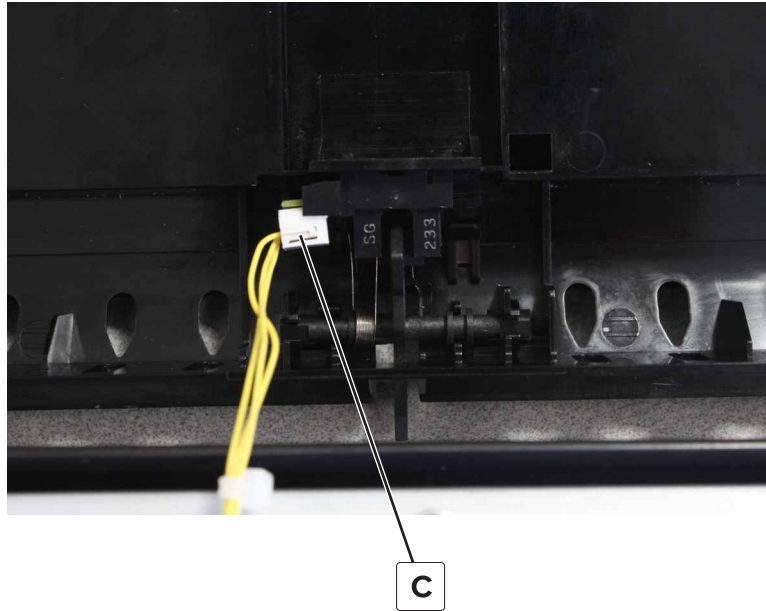
- 3** Remove the screw (A) from the right bracket.




- 4** Remove the screw (B) from the left bracket.



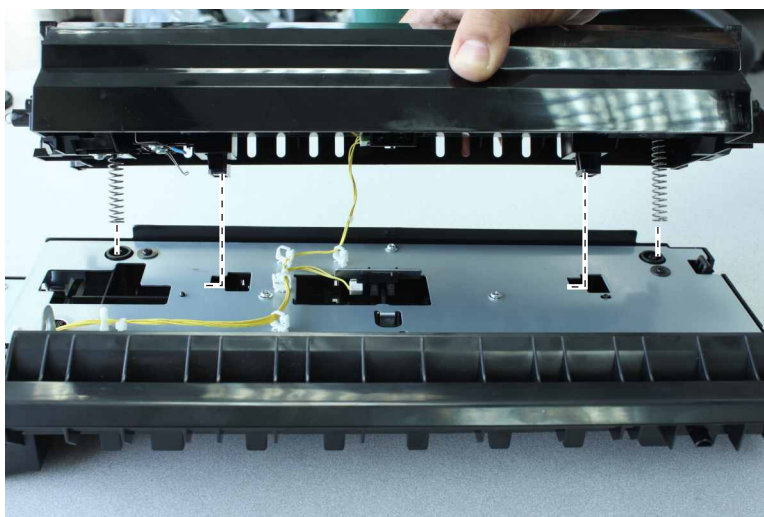
- 5 Disconnect the cable (C), and then remove the sub-assembly.



 **CAUTION—POTENTIAL INJURY:** This part has sharp points. To avoid the risk of a laceration injury, use caution when working near it.

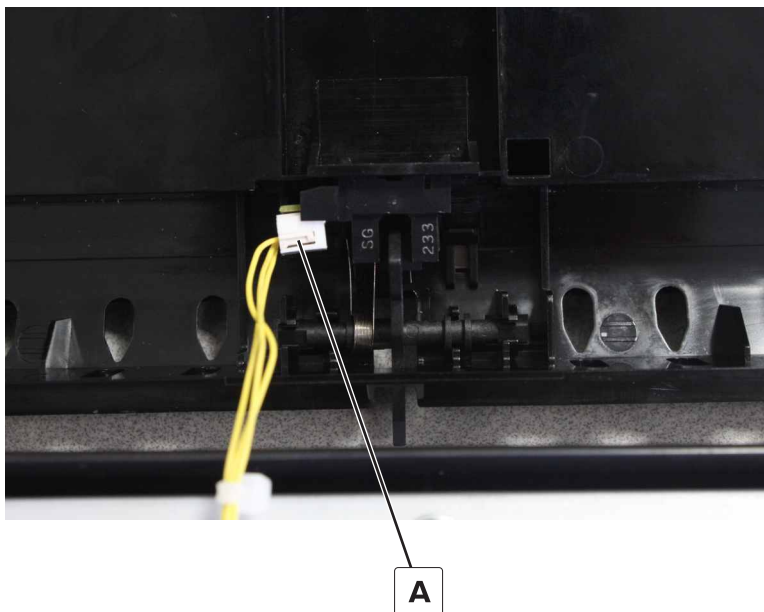


Installation note: Align the two springs while pushing down the assembly, and then move the assembly to the left to lock.



Sensor (fusing speed) removal

- 1 Remove the right door. See [“Right door removal” on page 430](#).
- 2 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507](#).
- 3 Remove the registration unit sub-assembly. See [“Registration unit sub-assembly removal” on page 507](#).
- 4 Disconnect the cable (A), and then remove the sensor.

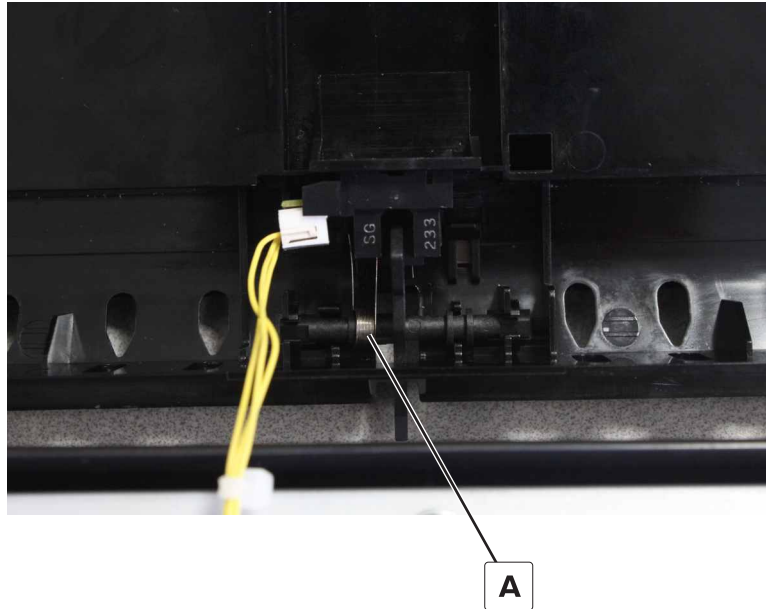


Fusing speed sensor actuator removal

- 1 Remove the right door. See [“Right door removal” on page 430](#).
- 2 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507](#).
- 3 Remove the registration unit sub-assembly. See [“Registration unit sub-assembly removal” on page 507](#).

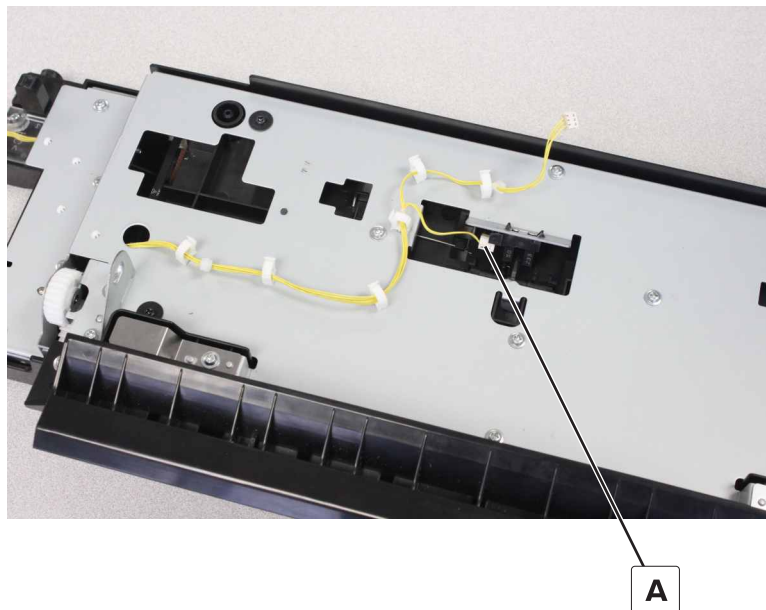
- 4 Release the spring (A), and then remove the actuator.

Installation note: Make sure that the spring (A) is correctly positioned on the actuator base.



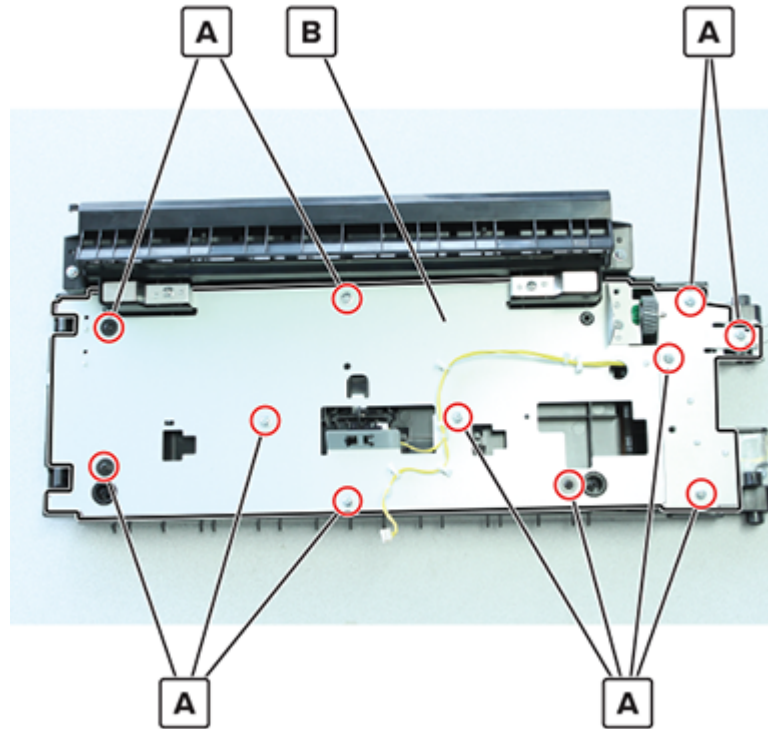
Sensor (duplex pass through 2) removal

- 1 Remove the right door. See [“Right door removal” on page 430](#).
- 2 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507](#).
- 3 Remove the registration unit sub-assembly. See [“Registration unit sub-assembly removal” on page 507](#).
- 4 Disconnect the cable (A), and then remove the sensor.

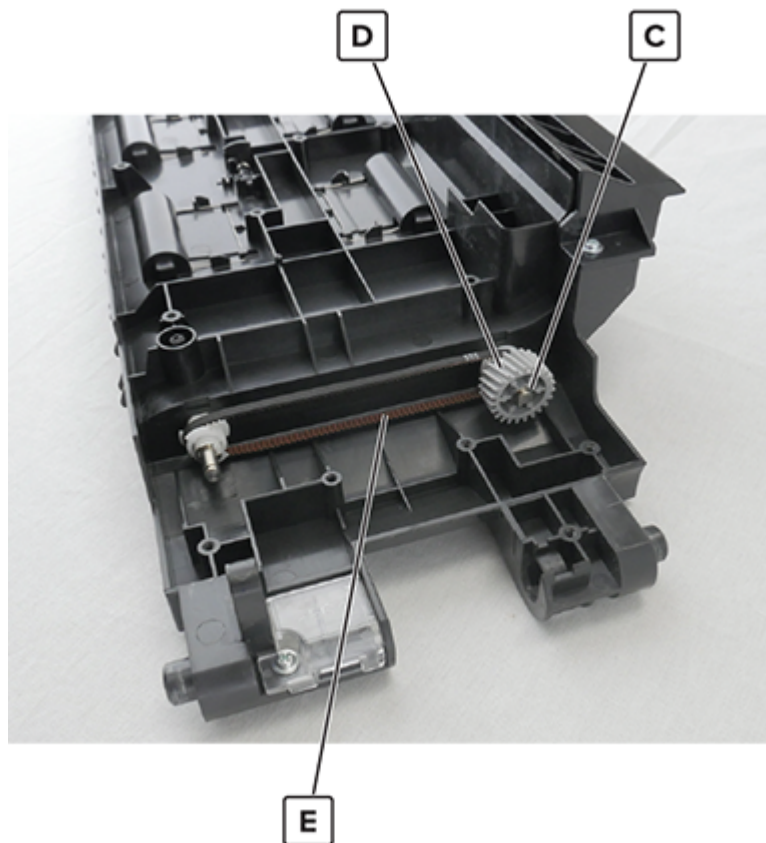


Registration drive belt removal

- 1 Remove the right door. See [“Right door removal” on page 430](#).
- 2 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507](#).
- 3 Remove the registration unit sub-assembly. See [“Registration unit sub-assembly removal” on page 507](#).
- 4 Remove the 11 screws (A), and then remove the plate (B).



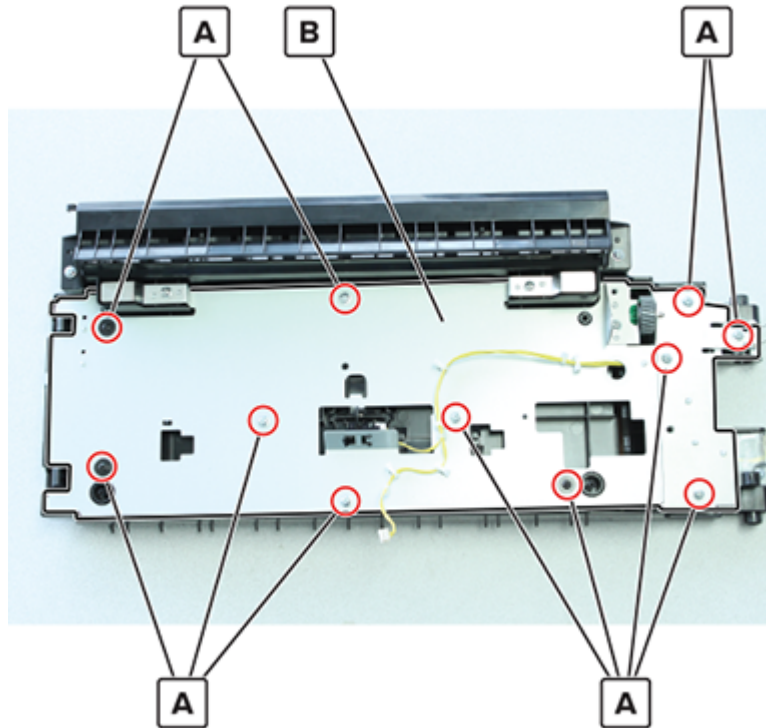
- 5** Remove the E-clip (C), remove the gear (D), and then remove the belt (E).



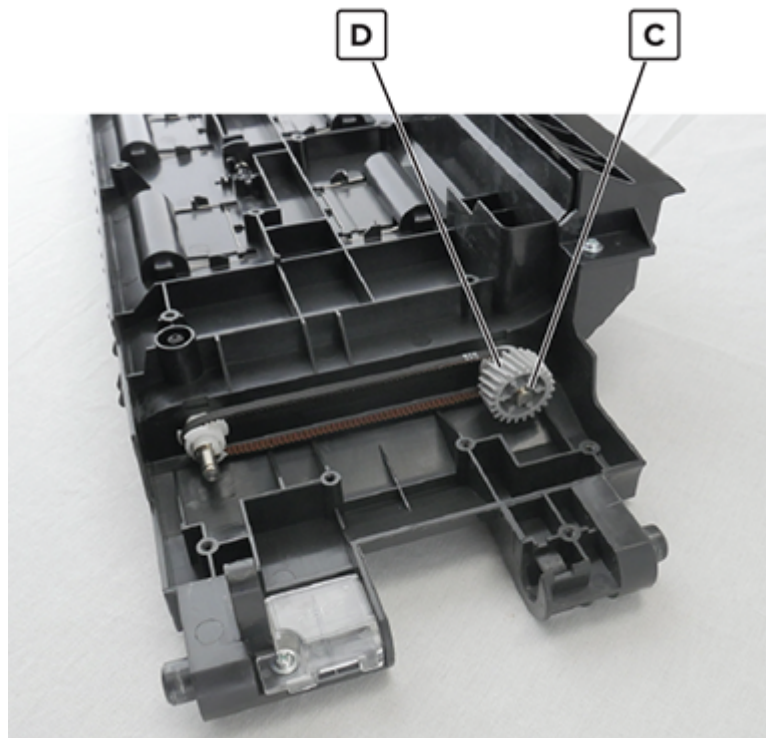
Registration drive gear removal

- 1** Remove the right door. See [“Right door removal” on page 430](#).
- 2** Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507](#).
- 3** Remove the registration unit sub assembly. See [“Registration unit sub-assembly removal” on page 507](#).

- 4** Remove the 11 screws (A), and then remove the plate (B).

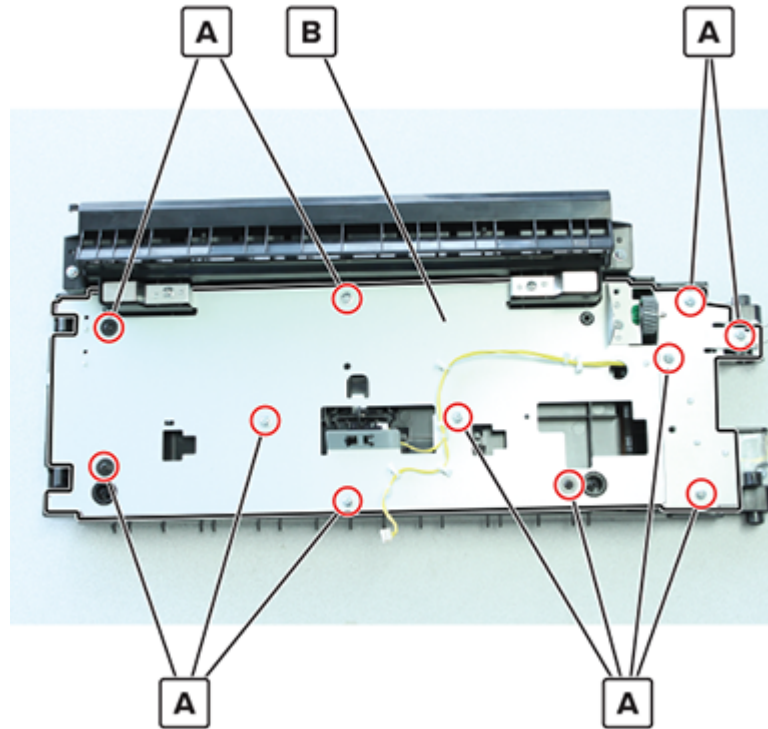


- 5** Remove the E-clip (C), and then remove the gear (D).

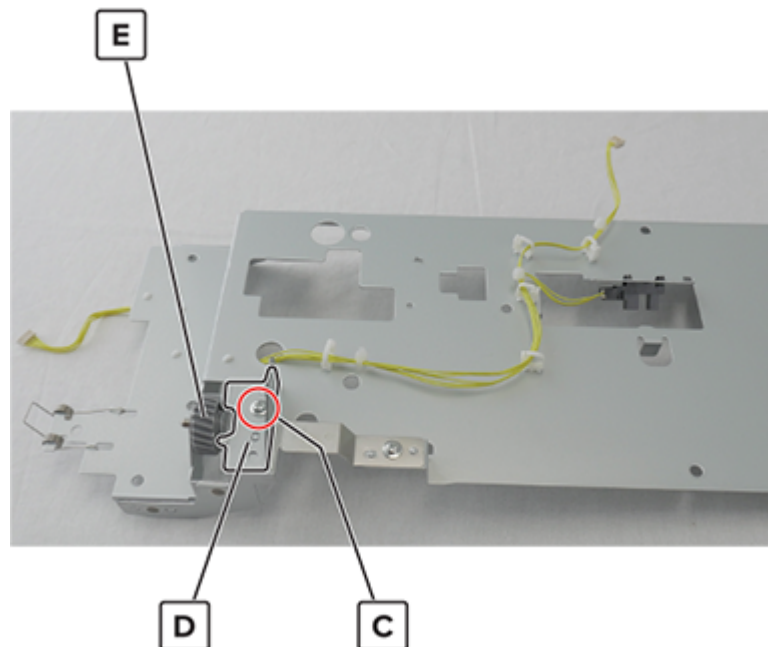


Lower registration gear removal

- 1 Remove the right door. See [“Right door removal” on page 430.](#)
- 2 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507.](#)
- 3 Remove the registration unit sub assembly. See [“Registration unit sub-assembly removal” on page 507.](#)
- 4 Remove the 11 screws (A), and then remove the plate (B).



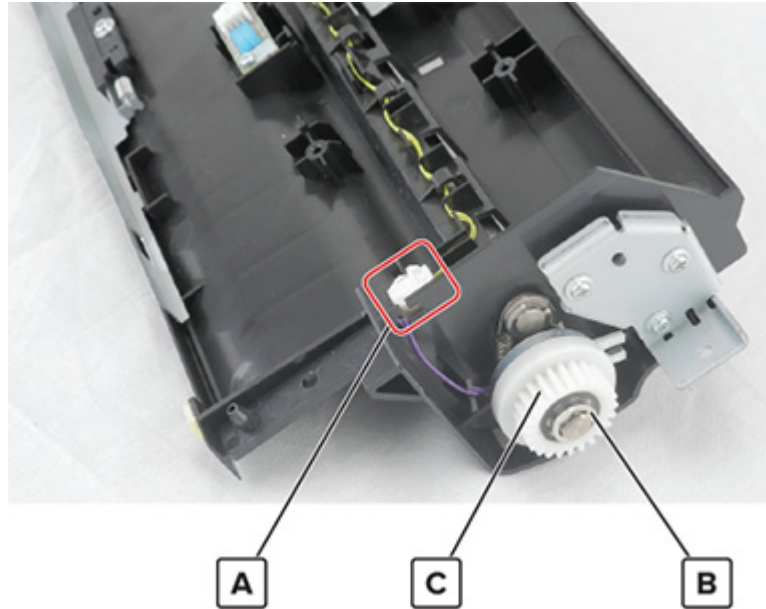
- 5 Remove the screw (C), remove the bracket (D), and then remove the gear (E).



Parts removal

Registration clutch removal

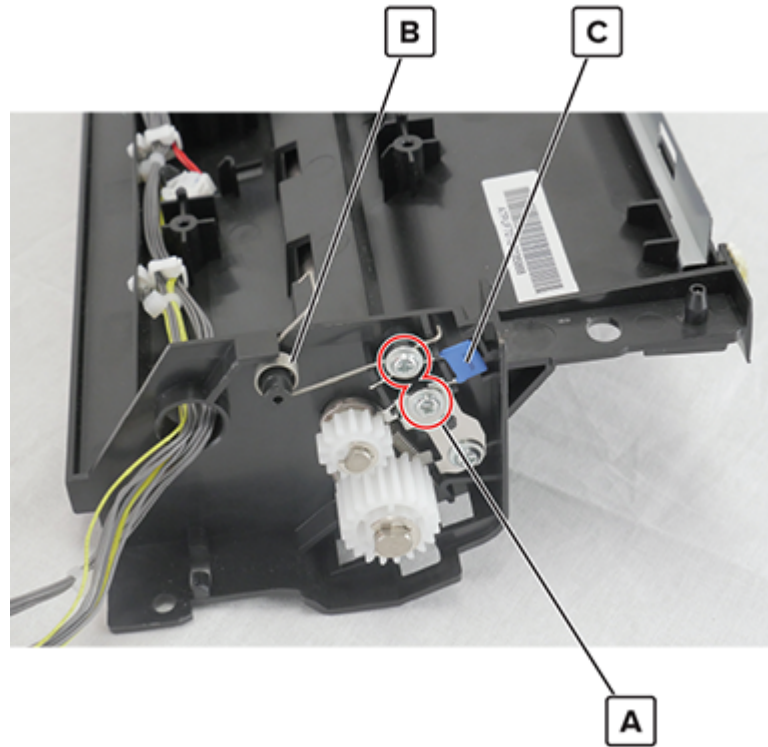
- 1 Remove the front cover. See [“Waste toner door mount removal” on page 572.](#)
- 2 Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499.](#)
- 3 Disconnect the cable (A), remove the E-clip (B), and then remove the clutch (C).



Registration transport resistor removal

- 1 Remove the front cover. See [“Waste toner door mount removal” on page 572.](#)
- 2 Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499.](#)

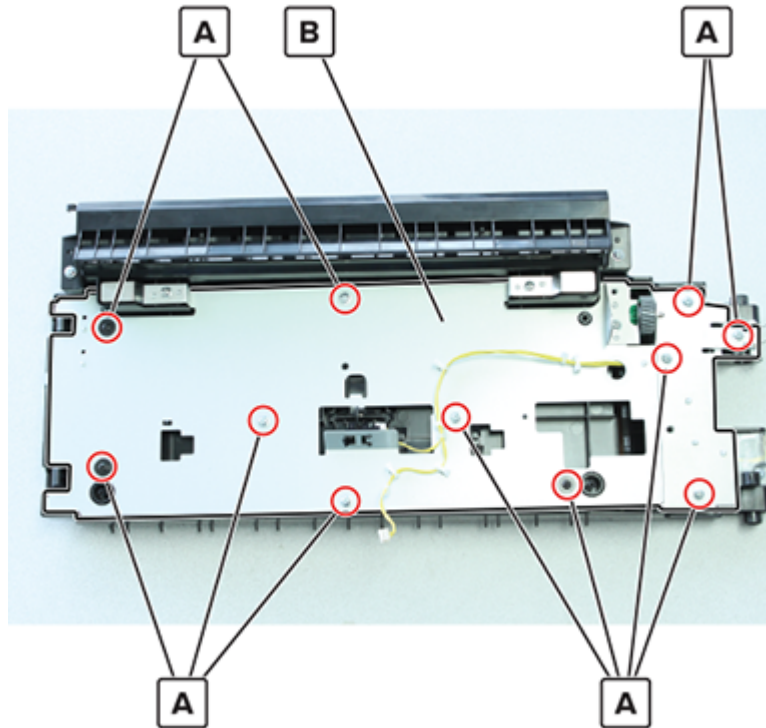
- 3** Remove the two screws (A), remove the spring (B), and then remove the resistor (C).



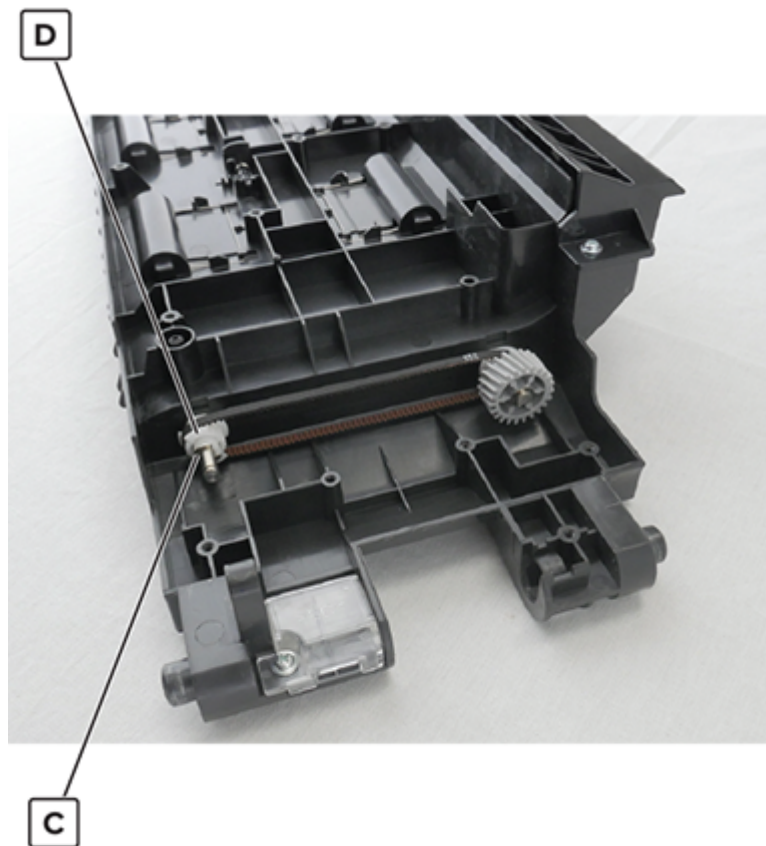
Registration unit gear removal

- 1** Remove the right door. See [“Right door removal” on page 430](#).
- 2** Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507](#).
- 3** Remove the registration unit sub assembly. See [“Registration unit sub-assembly removal” on page 507](#).

4 Remove the 11 screws (A), and then remove the plate (B).

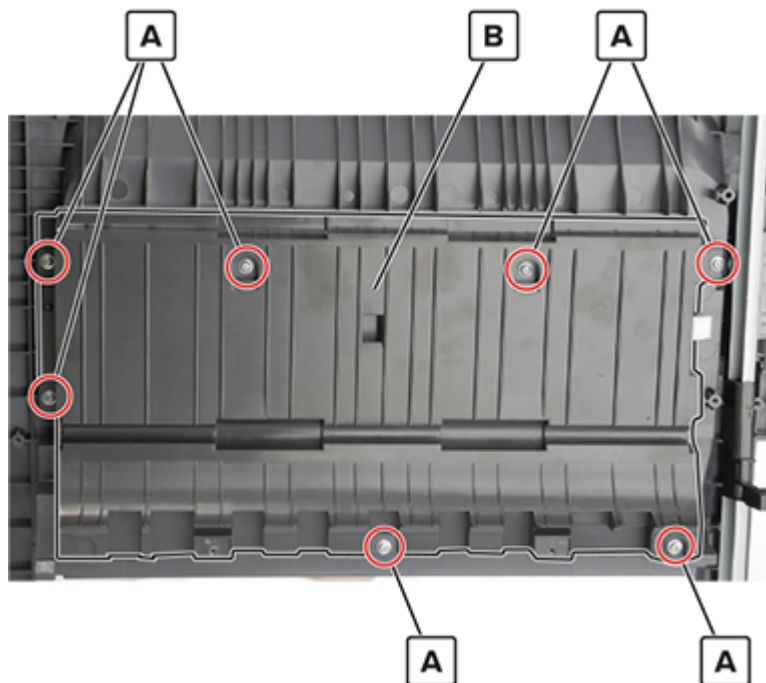


5 Remove the E-clip (C), and then remove the gear (D).

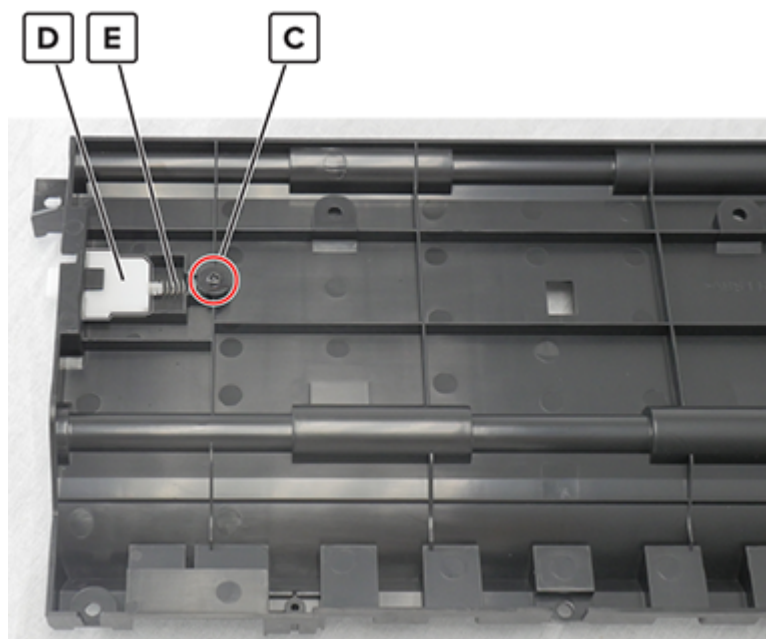


Registration unit lock and spring removal

- 1 Remove the right door lock. See [“Right door lock removal” on page 458](#).
- 2 Remove the tray 2 transport guide. See [“Tray 2 transport guide removal” on page 459](#).
- 3 Remove the MPF. See [“MPF removal” on page 460](#).
- 4 Remove the seven screws (A), and then remove the paper guide (B).

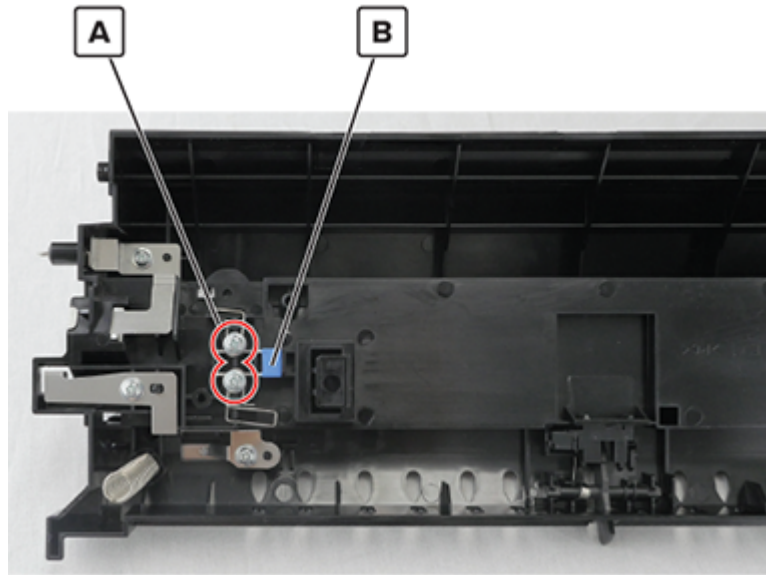


- 5 Remove the screw (C), remove the lock (D), and then remove the spring (E).

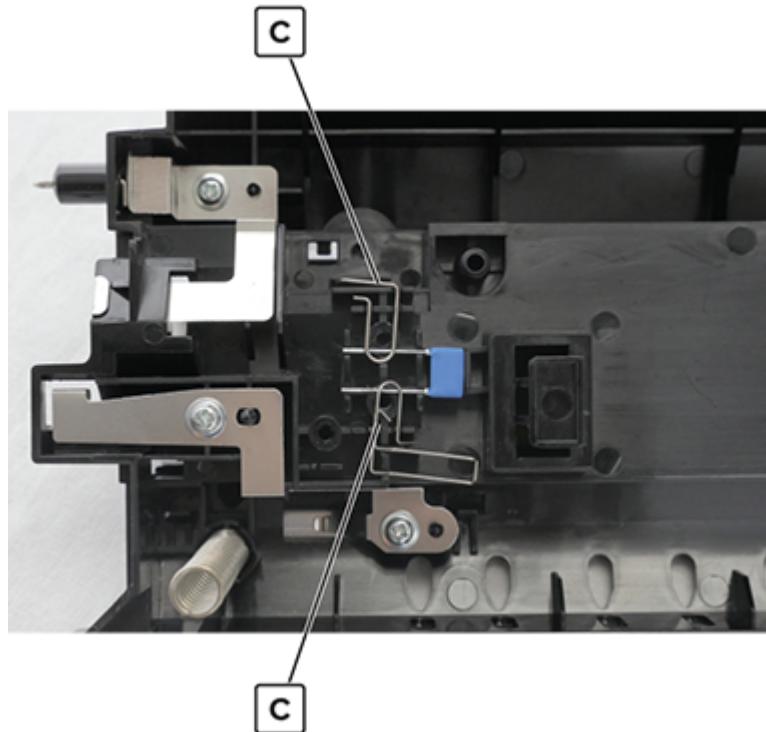


Registration unit resistor removal

- 1 Remove the right door. See [“Right door removal” on page 430.](#)
- 2 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507.](#)
- 3 Remove the registration unit sub-assembly. See [“Registration unit sub-assembly removal” on page 507.](#)
- 4 Remove the two screws (A), and then remove the resistor (B).

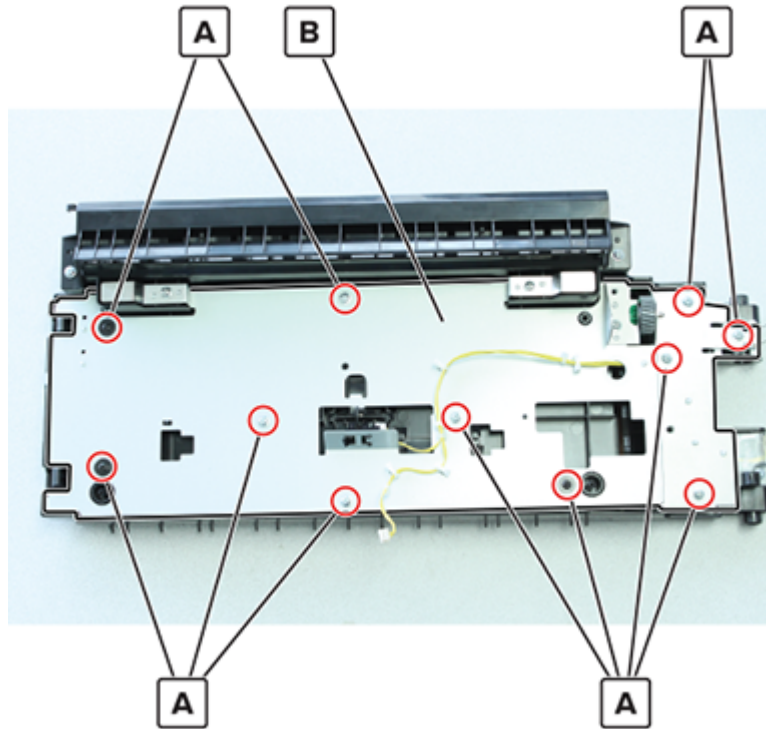


Warning—Potential Damage: Do not lose the two springs (C).

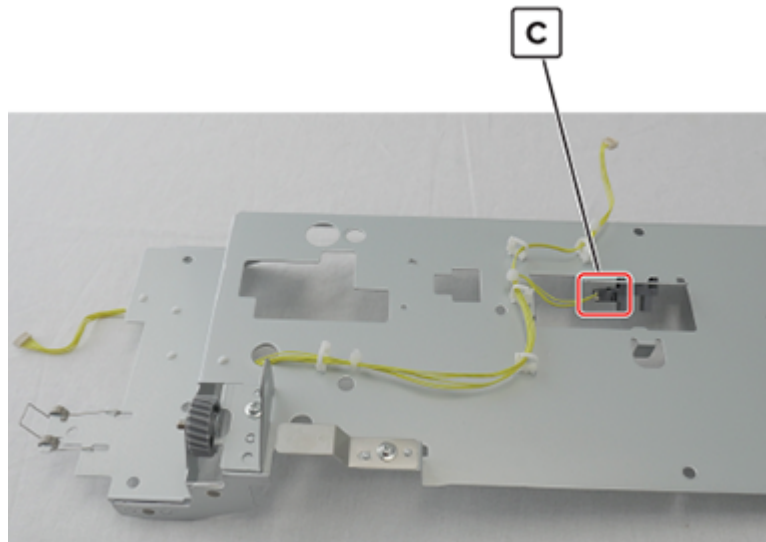


Registration unit sensor cable removal

- 1 Remove the right door. See [“Right door removal” on page 430](#).
- 2 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507](#).
- 3 Remove the registration unit sub assembly. See [“Registration unit sub-assembly removal” on page 507](#).
- 4 Remove the 11 screws (A), and then remove the plate (B).

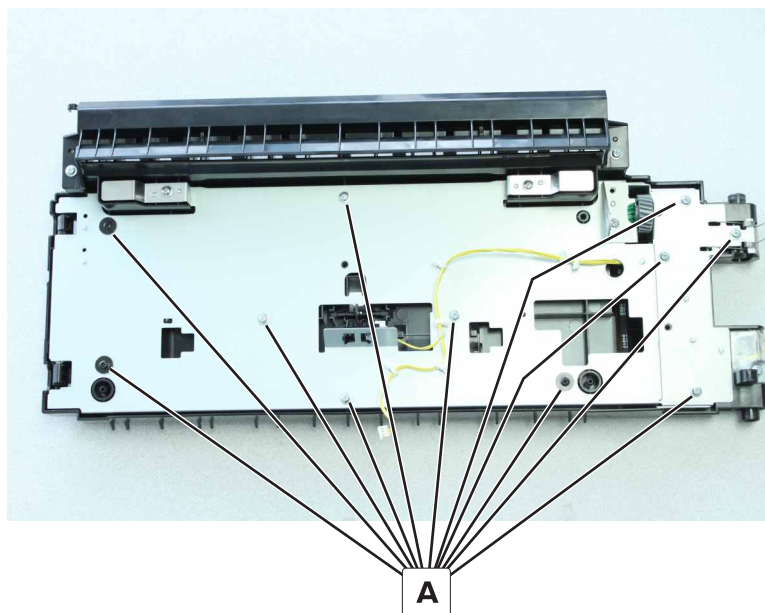


- 5 Disconnect the cable (C), and then remove the cable from the cable guides.

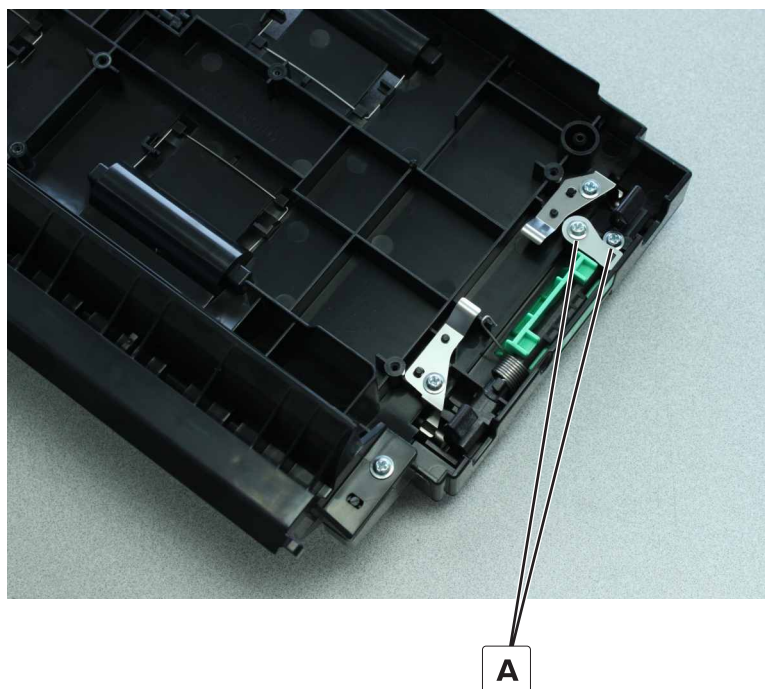


Registration unit handle removal

- 1 Remove the right door. See [“Right door removal” on page 430](#).
- 2 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507](#).
- 3 Remove the registration unit sub assembly. See [“Registration unit sub-assembly removal” on page 507](#).
- 4 Remove the 11 screws (A), and then remove the plate.



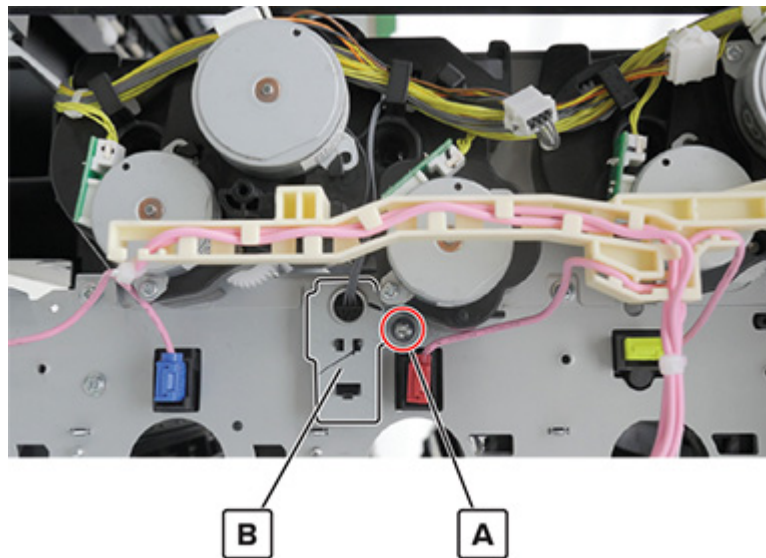
- 5 Remove the two screws (A), and then remove the registration unit lock.



- 6 Separate the registration unit handle from the registration unit lock shaft.

Sensor (first transfer pressure) removal

- 1 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 2 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 3 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 4 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 5 Remove the port access door. See [“Port access door removal” on page 432.](#)
- 6 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 7 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 8 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 9 Remove the expansion controller board. See [“Expansion controller board removal” on page 607.](#)
- 10 Remove the HVPS. See [“High voltage board removal” on page 627.](#)
- 11 Remove the main drive assembly. See [“Main drive assembly removal” on page 654.](#)
- 12 Remove the screw (A), and then remove the bracket (B).

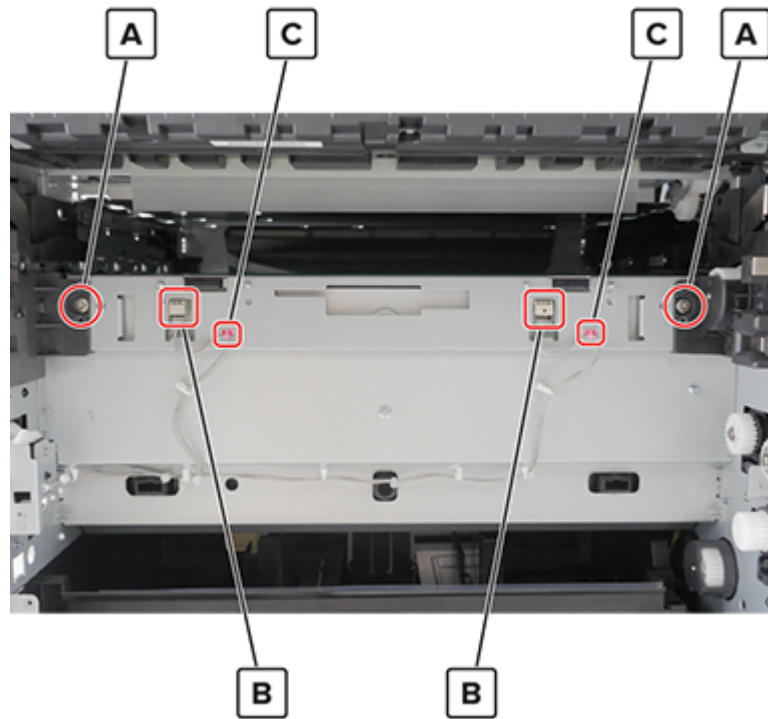


- 13 Remove the sensor from the bracket.

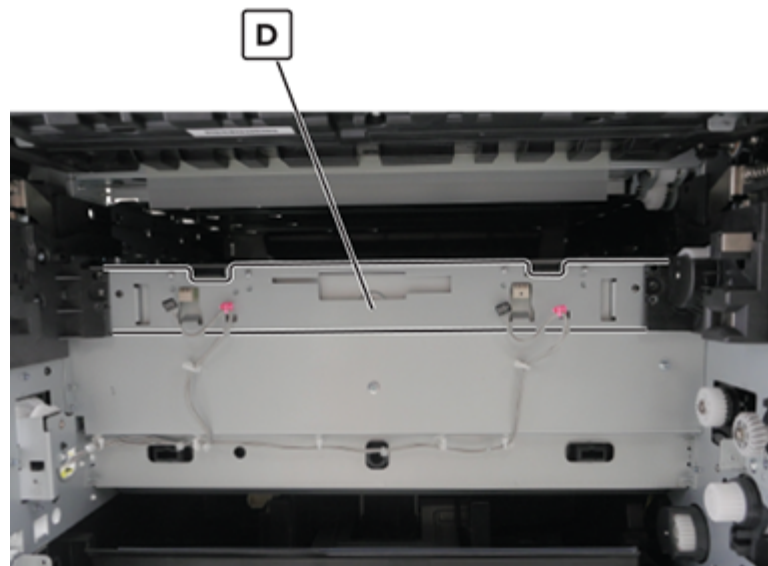
Sensor (front toner density) removal

- 1 Remove the transfer belt. See [“Transfer belt removal” on page 438.](#)
- 2 Remove the front door. See [“Front door removal” on page 541.](#)
- 3 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 4 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 5 Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499.](#)

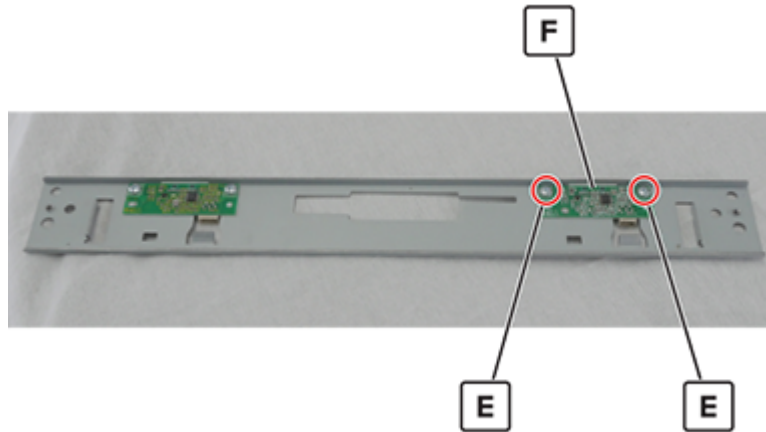
- 6** Remove the two screws (A), disconnect the two cables (B), and then remove the cables from the cable guides (C).



- 7** Remove the bracket (D).

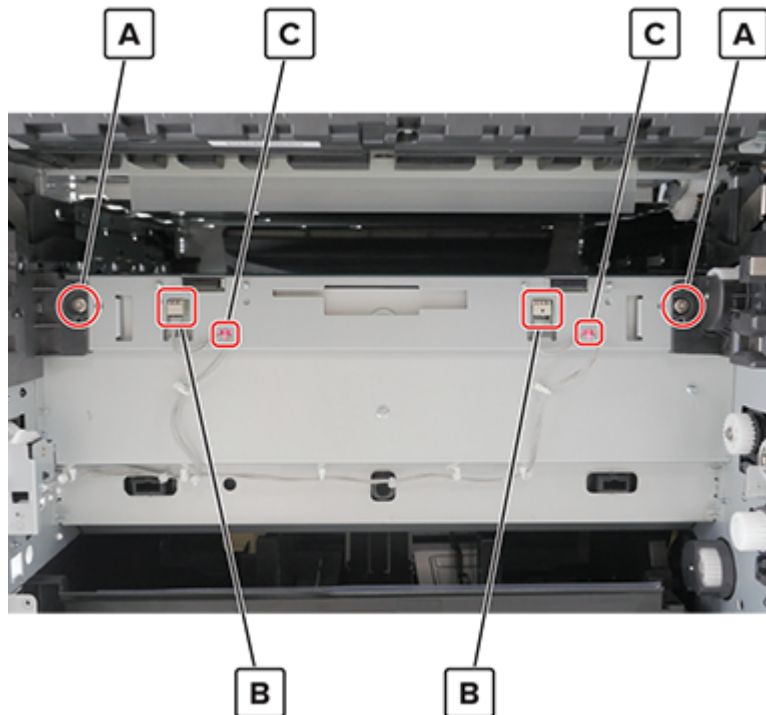


- 8** Remove the two screws (E), and then remove the sensor (F).

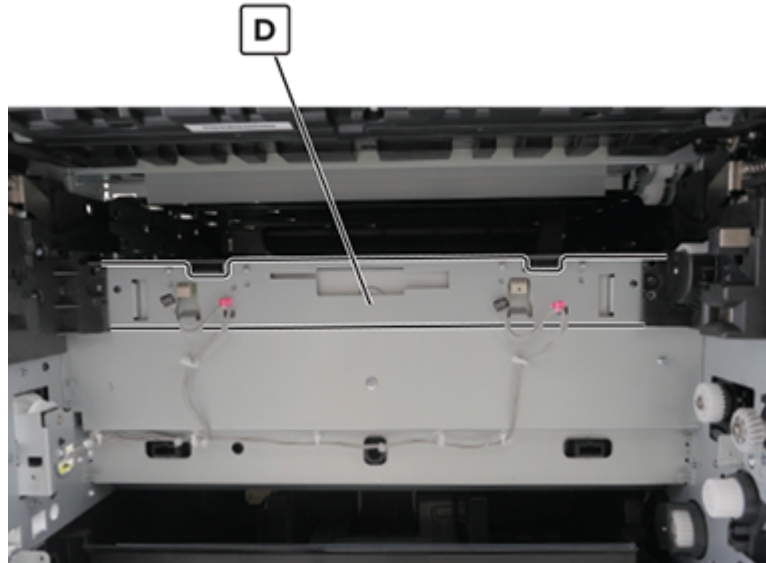


Sensor (rear toner density) removal

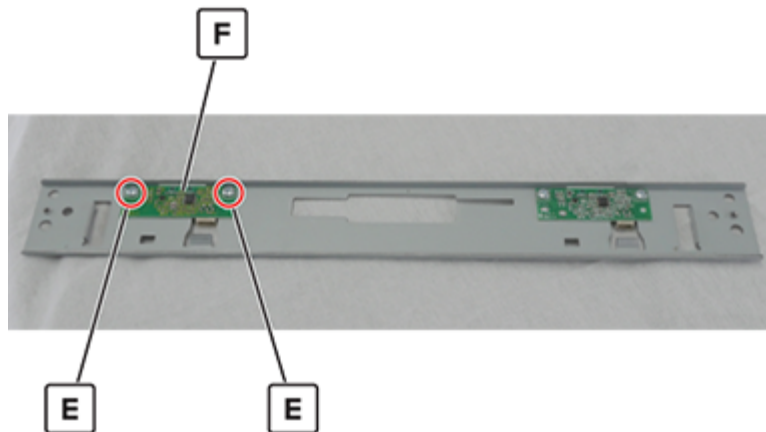
- 1** Remove the transfer belt. See [“Transfer belt removal” on page 438.](#)
- 2** Remove the front door. See [“Front door removal” on page 541.](#)
- 3** Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 4** Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 5** Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499.](#)
- 6** Remove the two screws (A), disconnect the two cables (B), and then remove the cables from the cable guides (C).



- 7** Remove the bracket (D).



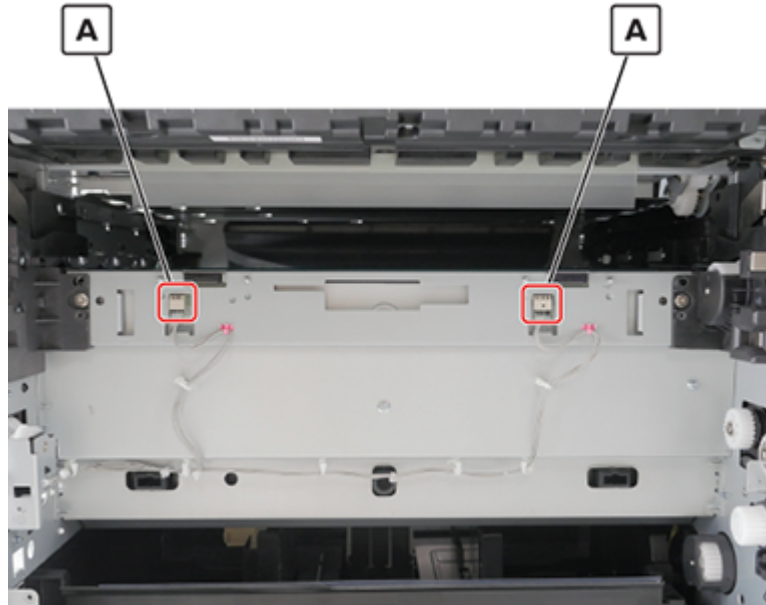
- 8** Remove the two screws (E), and then remove the sensor (F).



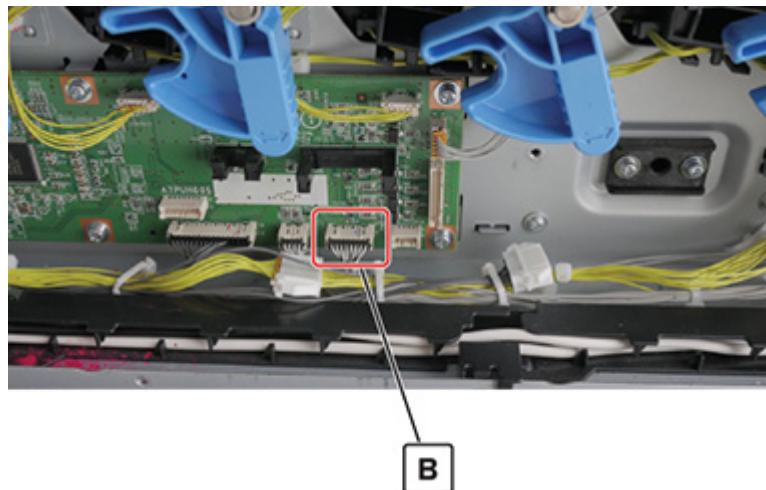
Toner density sensor cable removal

- 1** Remove the transfer belt. See [“Transfer belt removal” on page 438](#).
- 2** Remove the front door. See [“Front door removal” on page 541](#).
- 3** Remove the front inner cover. See [“Front inner cover removal” on page 571](#).
- 4** Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572](#).
- 5** Remove the registration transport assembly. See [“Registration transport assembly removal” on page 499](#).

- 6** Disconnect the two cables (A), and then remove the cables from the cable guides.



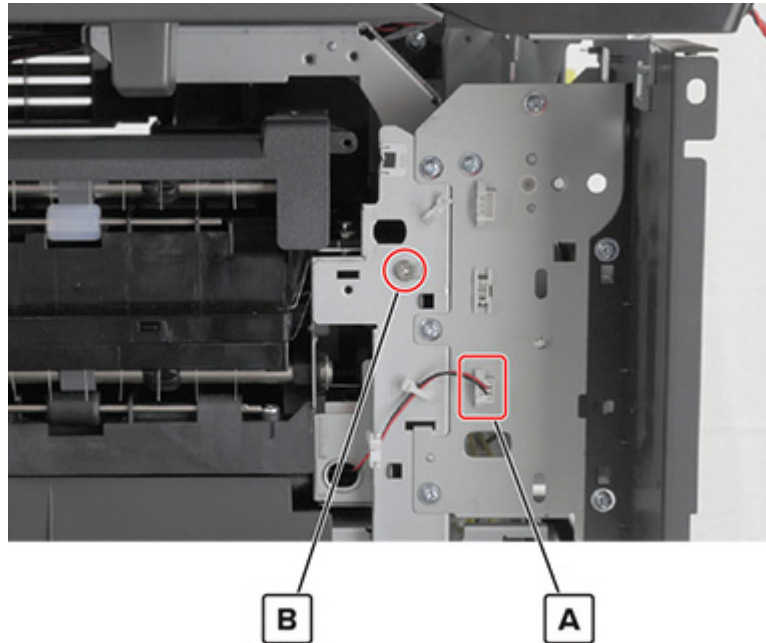
- 7** At the front of the printer, disconnect the cable (B), and then remove the cable from the cable guides.



Exit assembly removal

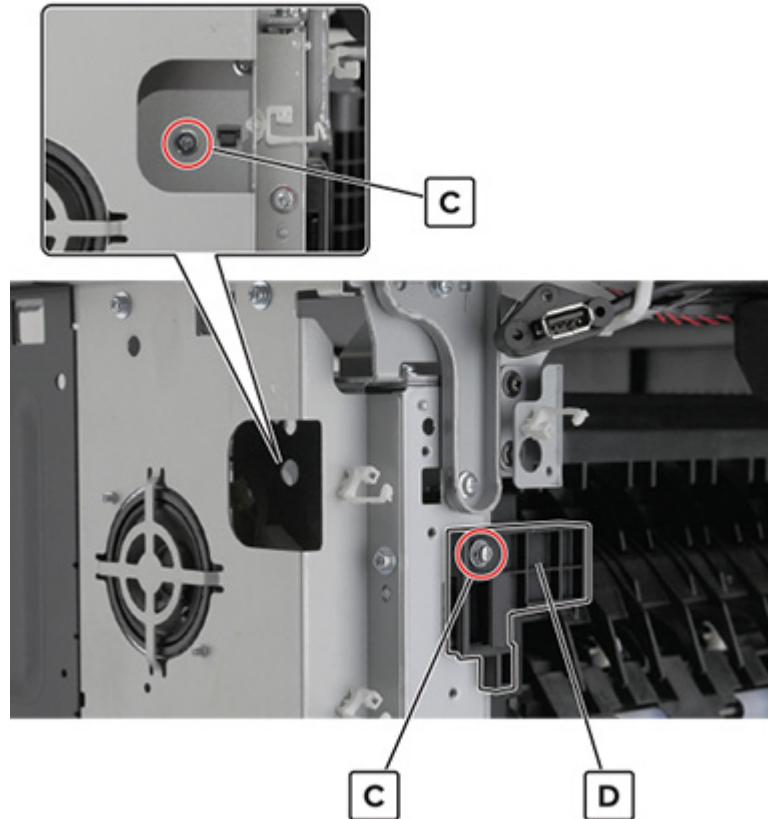
- 1** Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)
- 2** Remove the control panel cable guide lower cover. See [“Control panel cable guide lower cover removal” on page 545.](#)
- 3** Remove the standard bin bail.
- 4** Remove the sensor (standard bin exit assembly). See [“Standard bin exit assembly removal” on page 555.](#)
- 5** Remove the redrive exit guide. See [“Redrive exit guide removal” on page 556.](#)

- 6** Disconnect the cable (A), and then remove the screw (B).

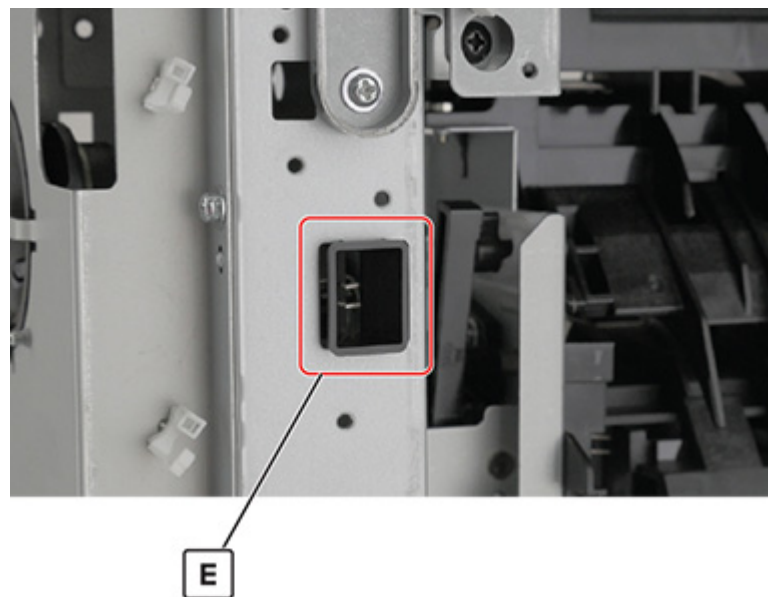


- 7** Remove the USB port cover. See [“USB port cover removal” on page 437](#).
- 8** Remove the speaker bottom cover. See [“Speaker bottom cover removal” on page 542](#).
- 9** Remove the speaker cover. See [“Speaker cover removal” on page 542](#).
- 10** Remove the fuser. See [“Fuser removal” on page 441](#).

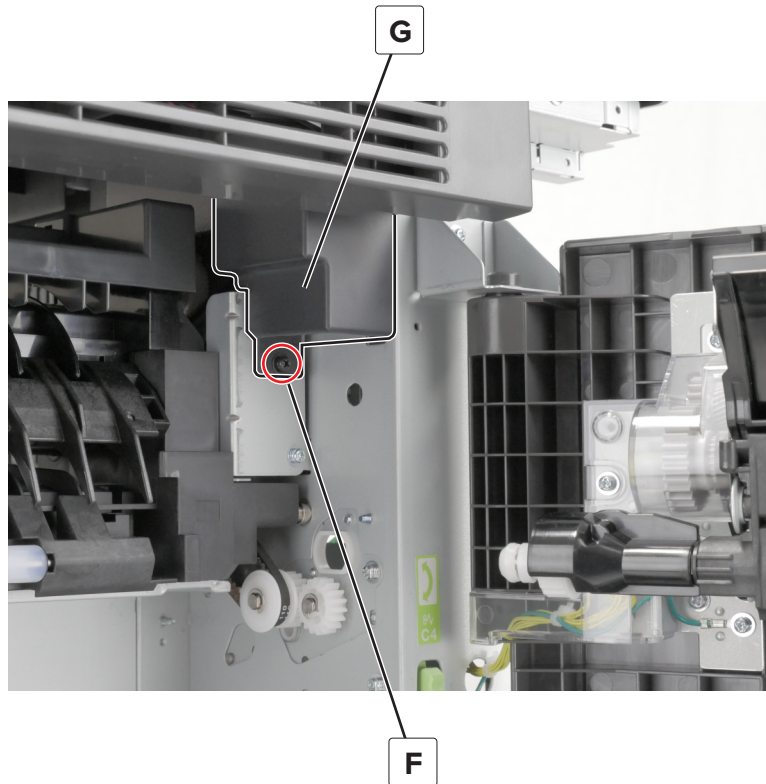
- 11 Remove the two screws (C), and then remove the cover (D).



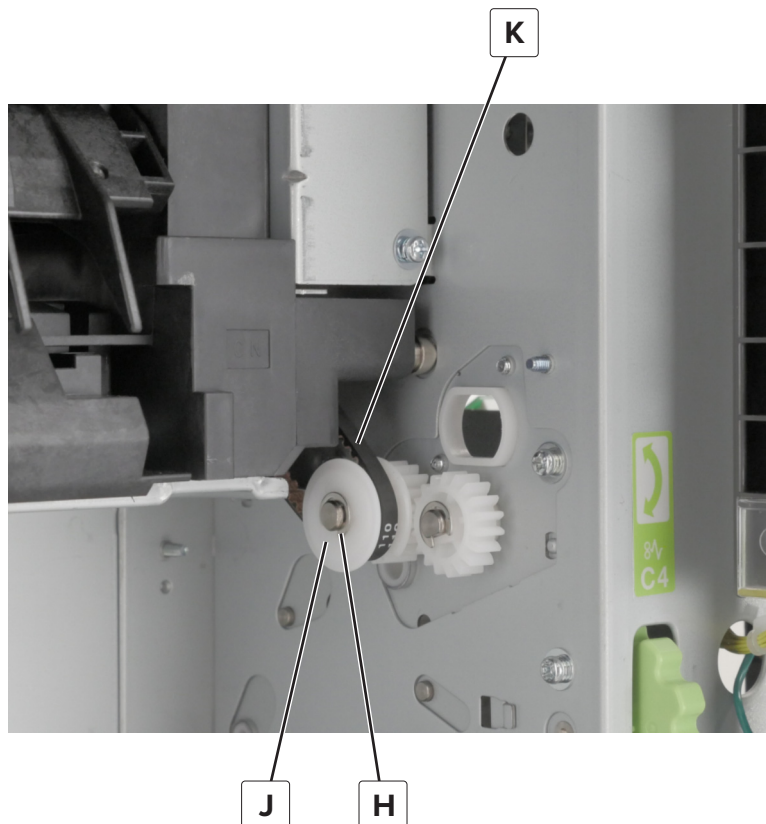
Warning—Potential Damage: Do not lose the switch actuator guide (E).



- 12** Remove the screw (F), and then remove the cover (G).

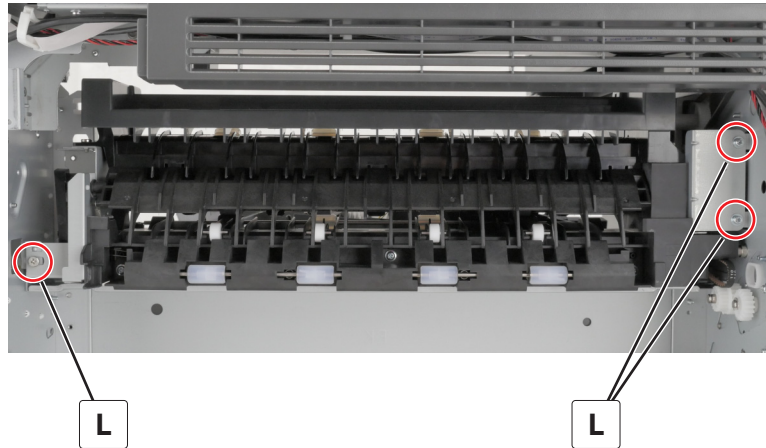


- 13** Remove the E-clip (H), remove the washer (J), and then release the belt (K).

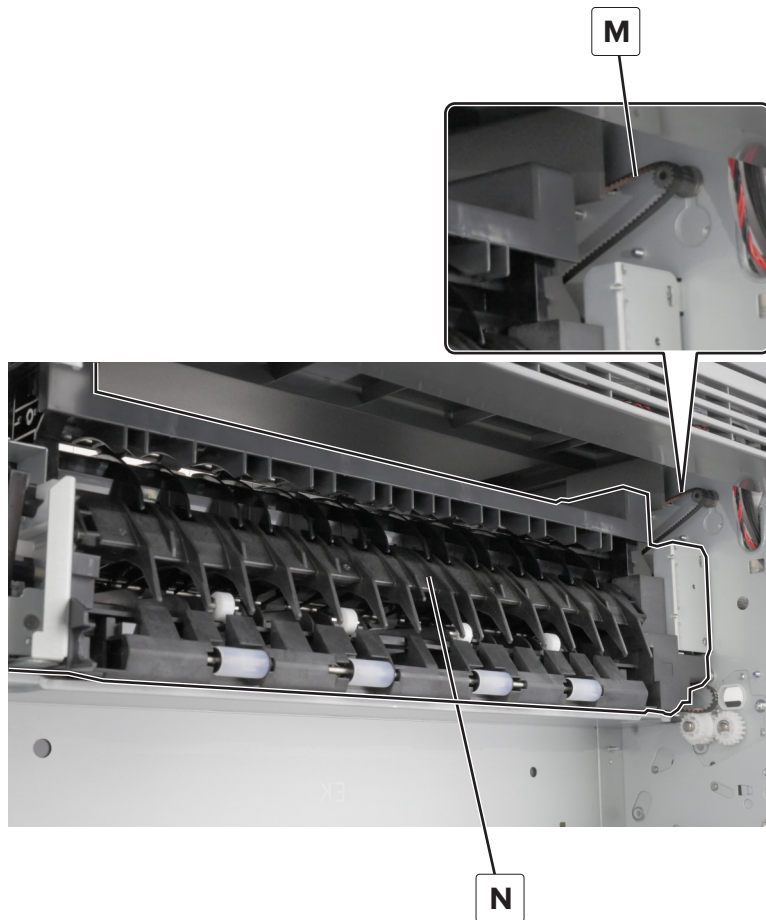


Parts removal

14 Remove the three screws (L).

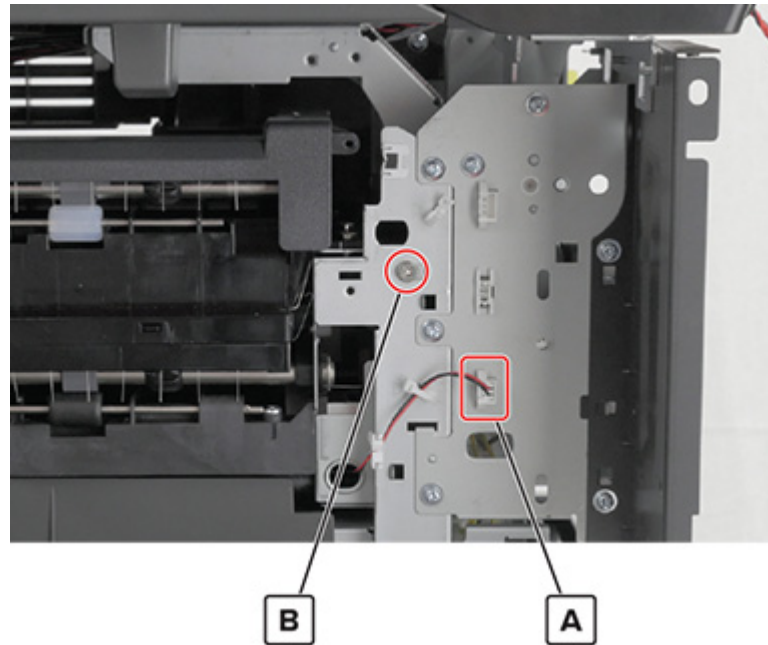


15 Release the belt (M), and then remove the exit assembly (N).



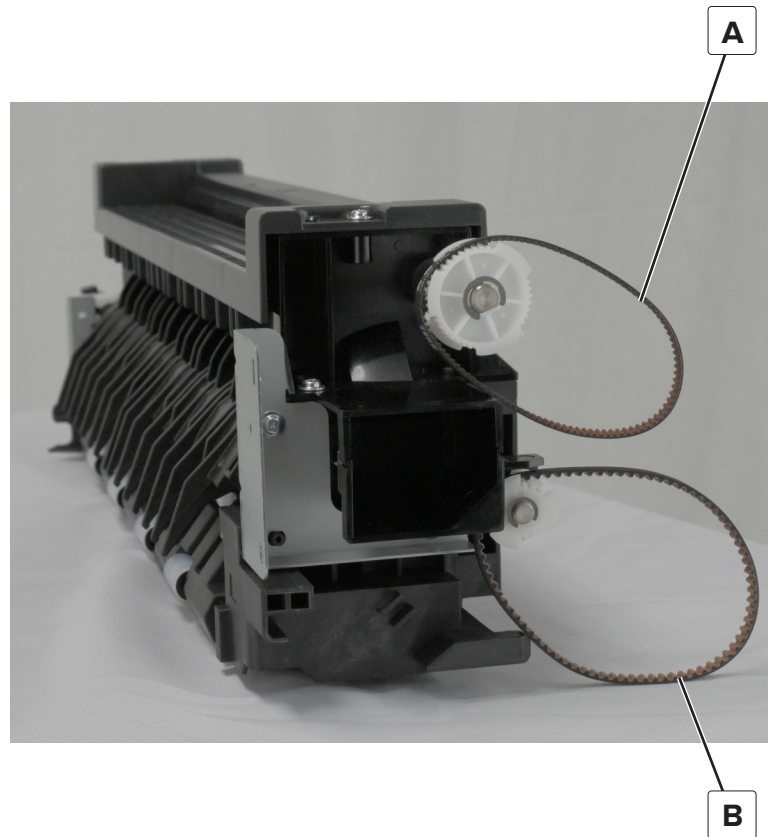
Redrive exit and clutch exit belts removal

- 1 Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)
- 2 Remove the control panel cable guide lower cover. See [“Control panel cable guide lower cover removal” on page 545.](#)
- 3 Remove the standard bin bail.
- 4 Remove the standard bin exit assembly. See [“Standard bin exit assembly removal” on page 555.](#)
- 5 Remove the redrive exit guide. See [“Redrive exit guide removal” on page 556.](#)
- 6 Disconnect the cable (A), and then remove the screw (B).



- 7 Remove the USB port cover. See [“USB port cover removal” on page 437.](#)
- 8 Remove the speaker bottom cover. See [“Speaker bottom cover removal” on page 542.](#)
- 9 Remove the speaker cover. See [“Speaker cover removal” on page 542.](#)
- 10 Remove the fuser. See [“Fuser removal” on page 441.](#)
- 11 Remove the exit assembly. See [“Exit assembly removal” on page 527.](#)

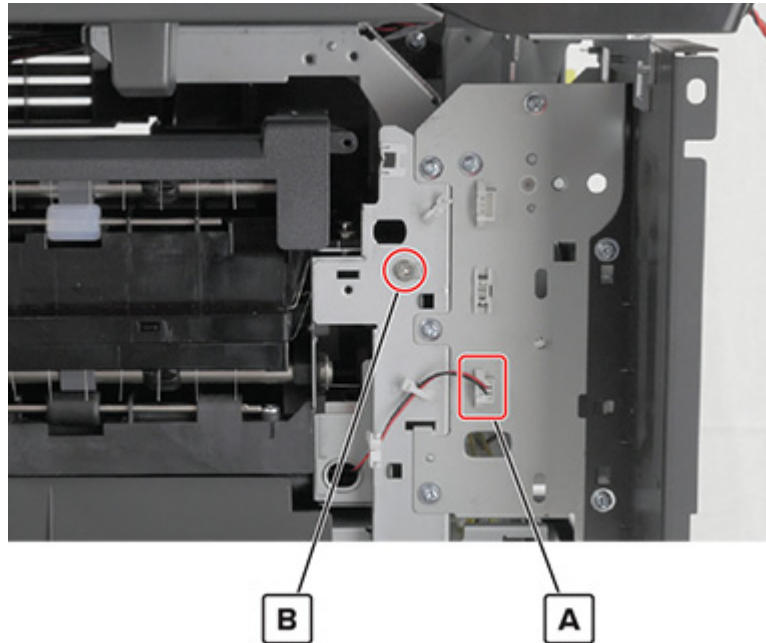
- 12** Remove the redrive exit belt (C), and then remove the exit clutch belt (D).



Diverter solenoid removal

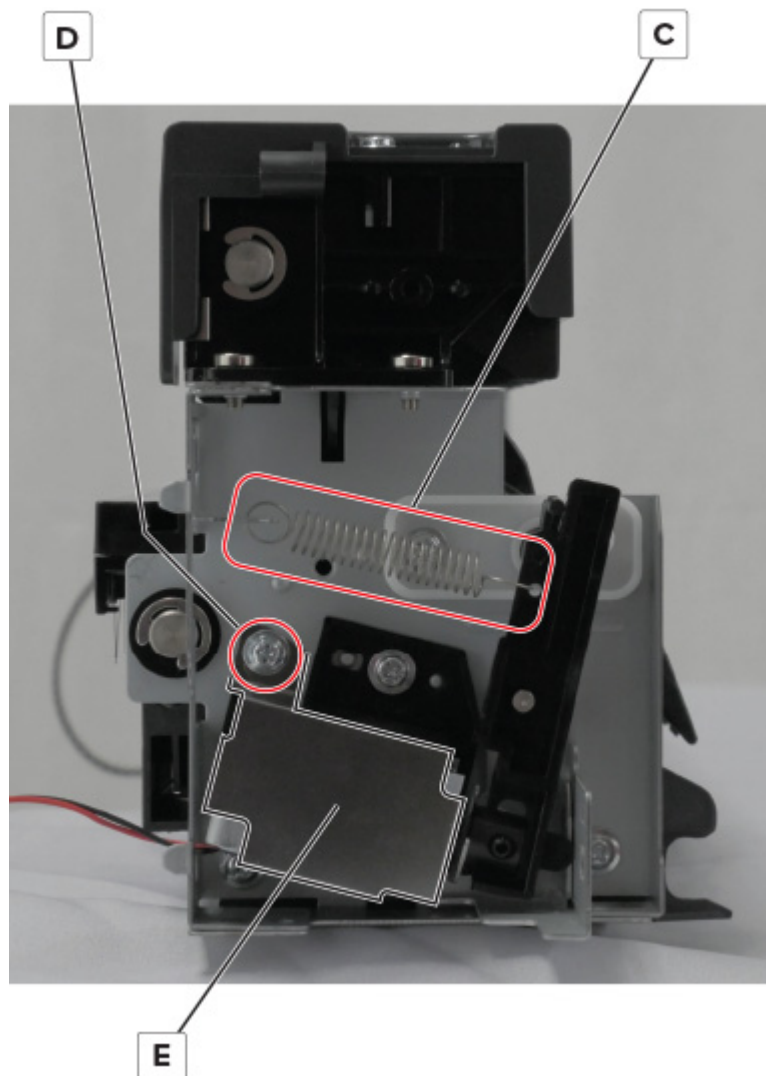
- 1** Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)
- 2** Remove the control panel cable guide lower cover. See [“Control panel cable guide lower cover removal” on page 545.](#)
- 3** Remove the standard bin bail.
- 4** Remove the standard bin exit assembly. See [“Standard bin exit assembly removal” on page 555.](#)
- 5** Remove the redrive exit guide. See [“Redrive exit guide removal” on page 556.](#)

- 6** Disconnect the cable (A), and then remove the screw (B).

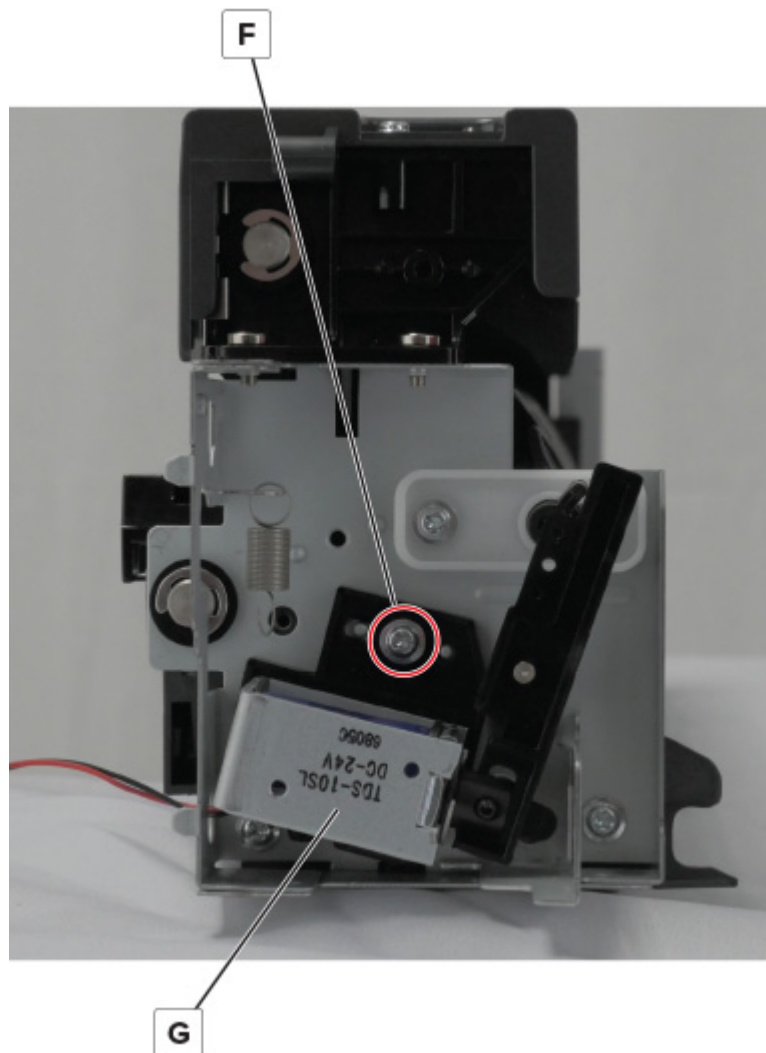


- 7** Remove the USB port cover. See [“USB port cover removal” on page 437](#).
- 8** Remove the speaker bottom cover. See [“Speaker bottom cover removal” on page 542](#).
- 9** Remove the speaker cover. See [“Speaker cover removal” on page 542](#).
- 10** Remove the fuser. See [“Fuser removal” on page 441](#).
- 11** Remove the exit assembly. See [“Exit assembly removal” on page 527](#).

- 12** Unhook the spring (C), remove the screw (D), and then remove the shield (E).



- 13** Remove the screw (F), and then remove the solenoid (G).

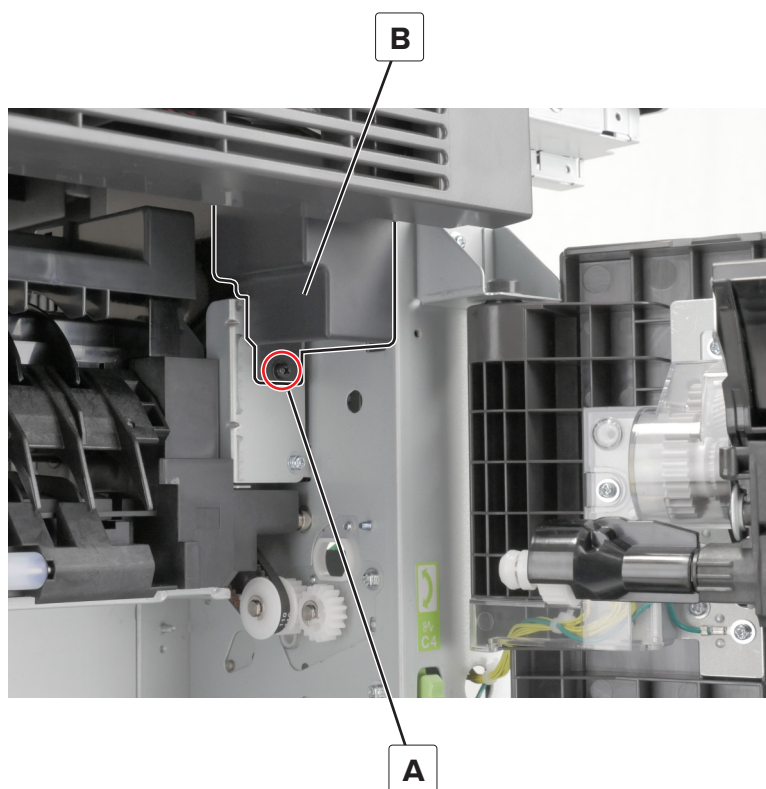


Motor (redrive) removal

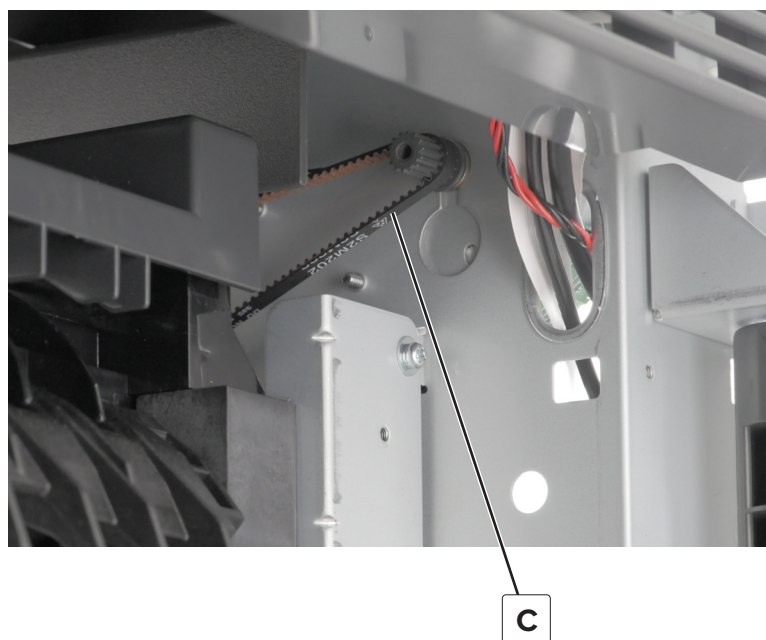
- 1** Open the right door, remove the screw (A), and then remove the cover (B).



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.



2 Release the belt (C).

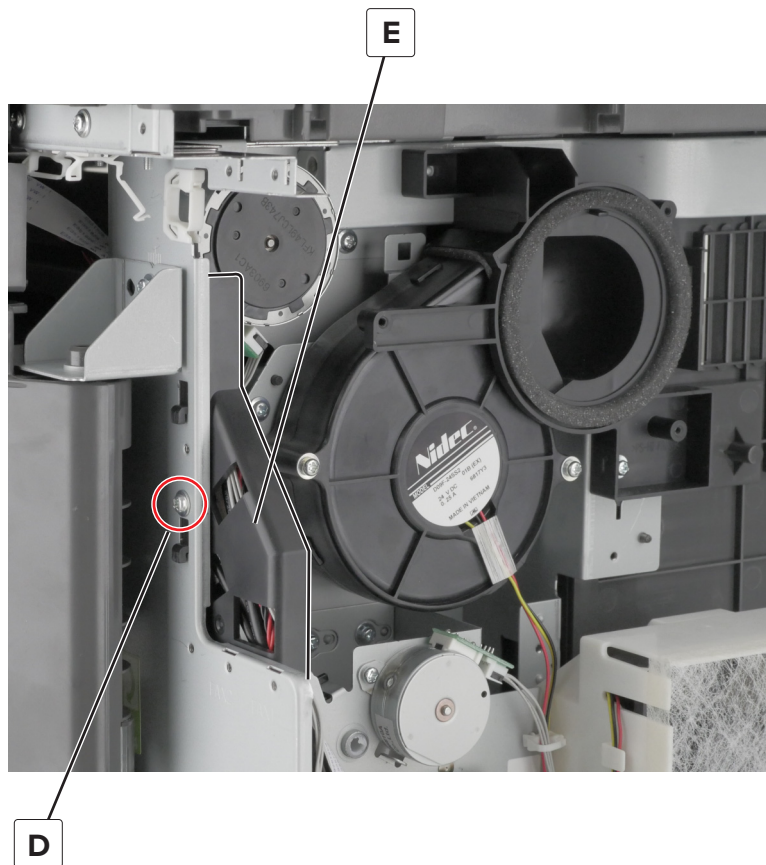


3 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).

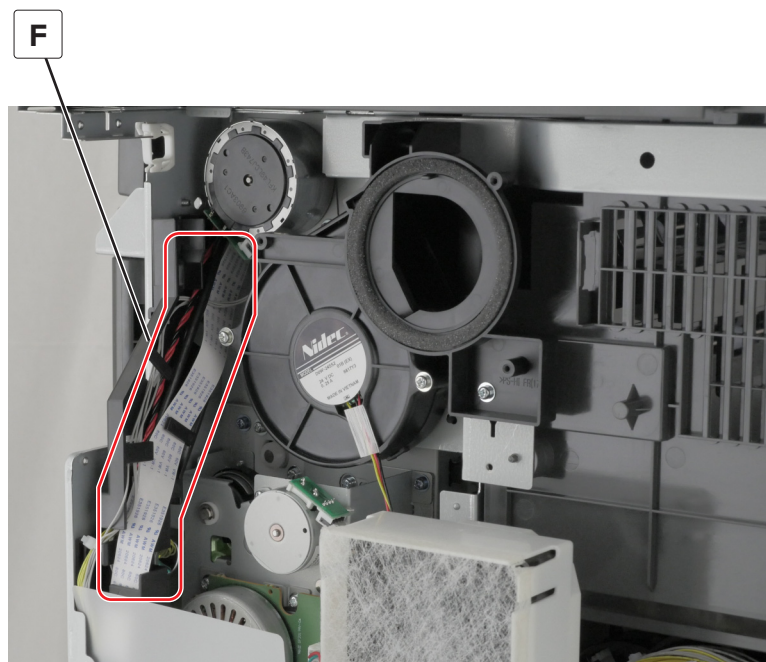
4 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).

5 Remove the port mount. See [“Port mount removal” on page 433](#).

- 6** Remove the screw (D), and then detach the cable harness (E) from the frame.

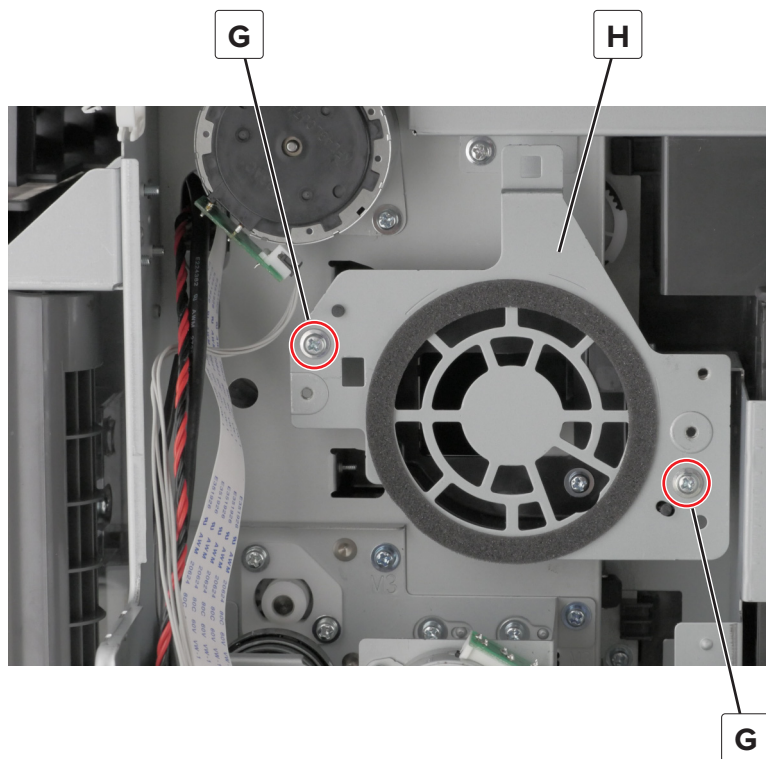


- 7** Remove the cables (F) from the cable guide.

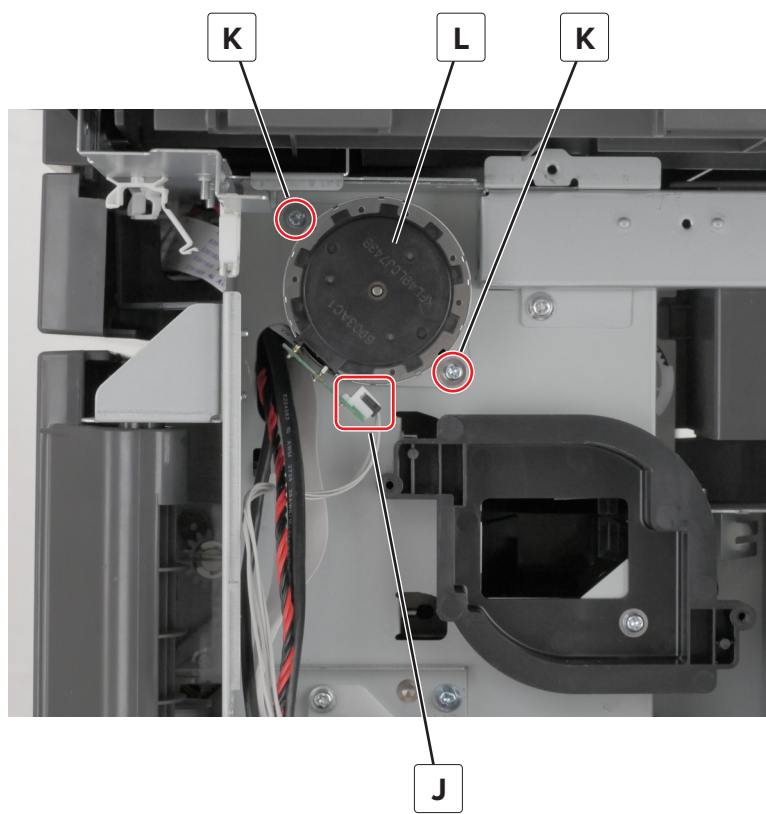


- 8** Remove the paper exit fan. See [“Paper exit fan removal” on page 639](#).

- 9** Remove the two screws (G), and then remove the bracket (H).

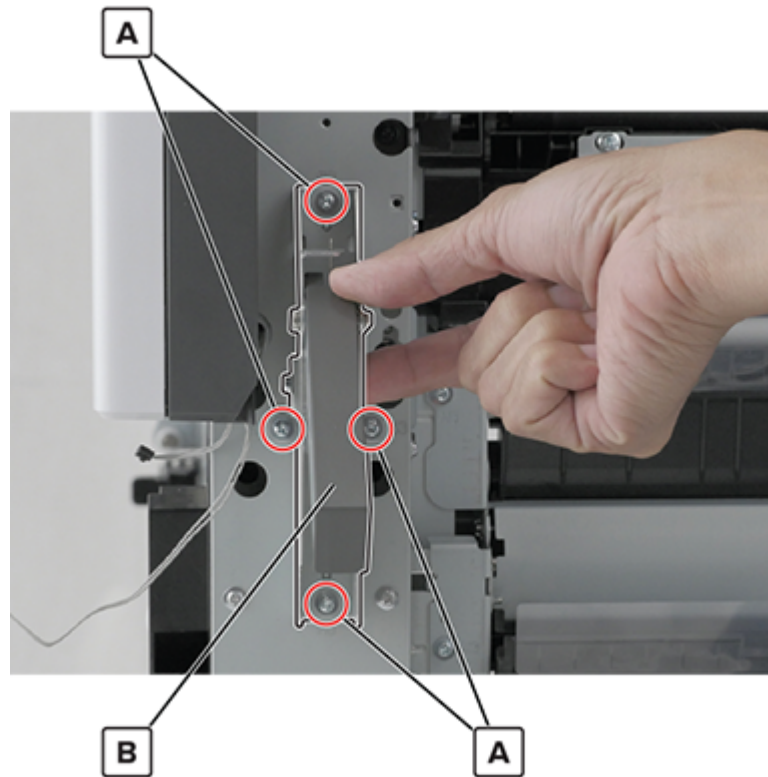


- 10** Disconnect the cable (J), remove the two screws (K), and then remove the motor (L).



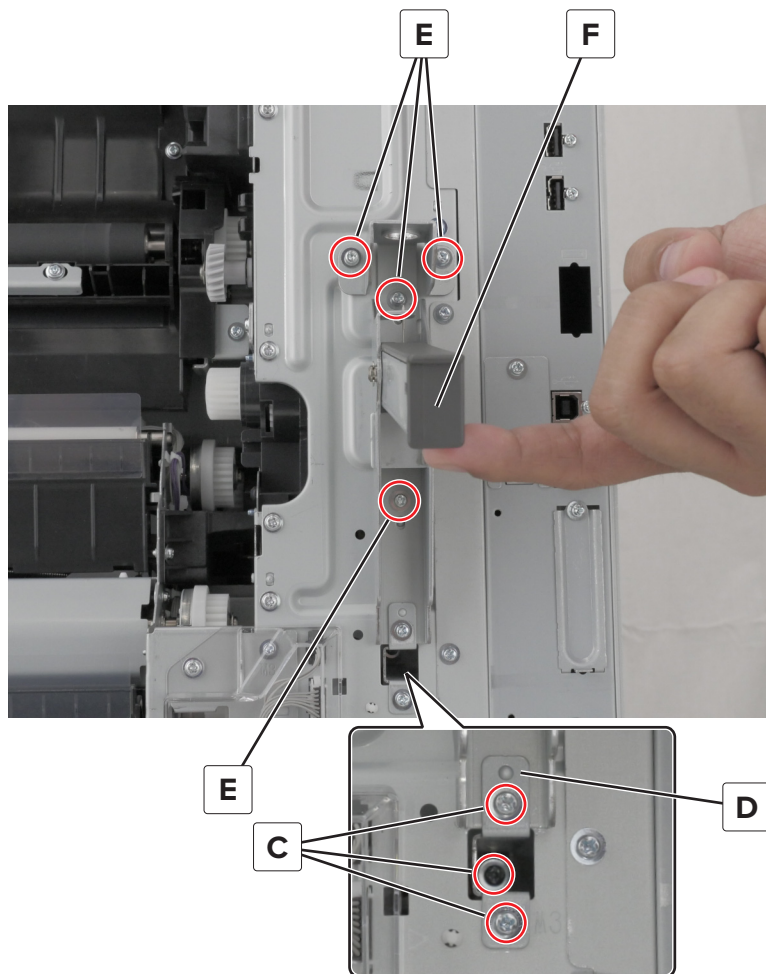
Right handles removal

- 1 Remove the tray empty LED cover. See [“Tray empty LED cover removal” on page 584.](#)
- 2 Remove the tray empty board mount. See [“Tray empty board mount removal” on page 434.](#)
- 3 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 4 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 5 Remove the four screws (A), and then remove the handle (B).



- 6 Remove the right door. See [“Right door removal” on page 430.](#)
- 7 Remove the registration unit assembly. See [“Registration unit assembly removal” on page 507.](#)
- 8 Remove the three screws (C), and then remove the bracket (D).

- 9** Remove the four screws (E), and then remove the handle (F).

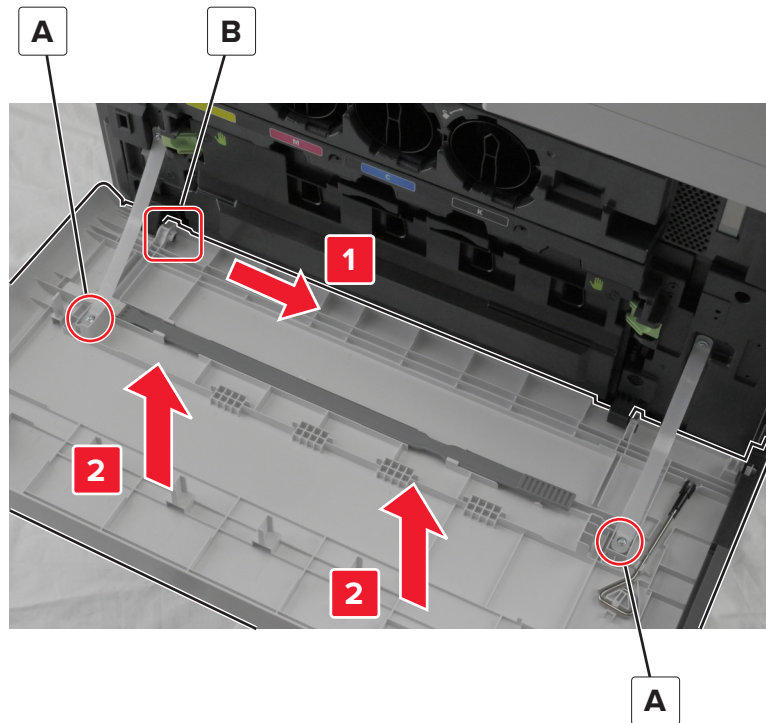


Front side removals

Front door removal

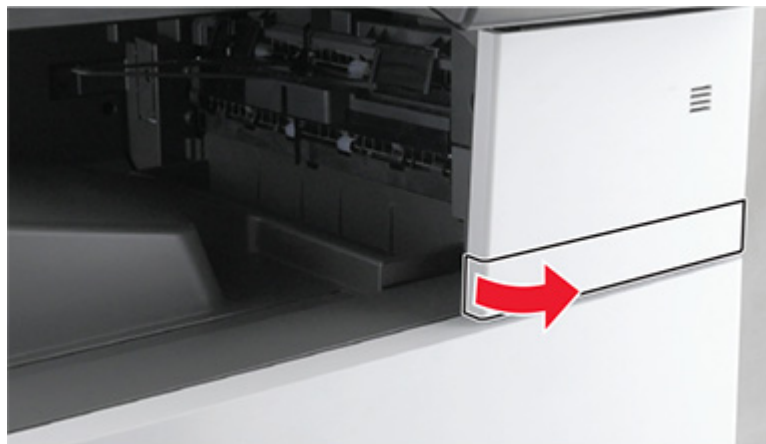
- 1** Open the front door, and then remove the printhead wiper and screwdriver.
- 2** Remove the two screws (A).

- 3** Remove the clip (B), release the hinges, and then remove the door.



Speaker bottom cover removal

- 1** Release the left side of the cover.

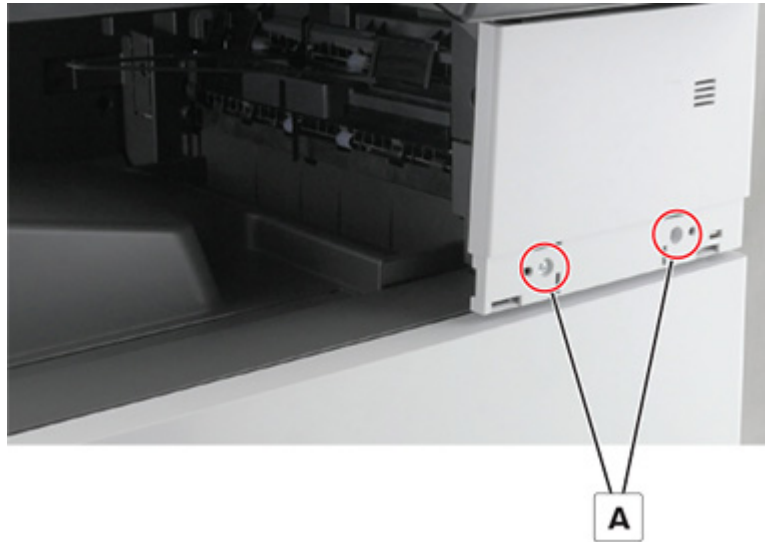


- 2** Remove the cover.

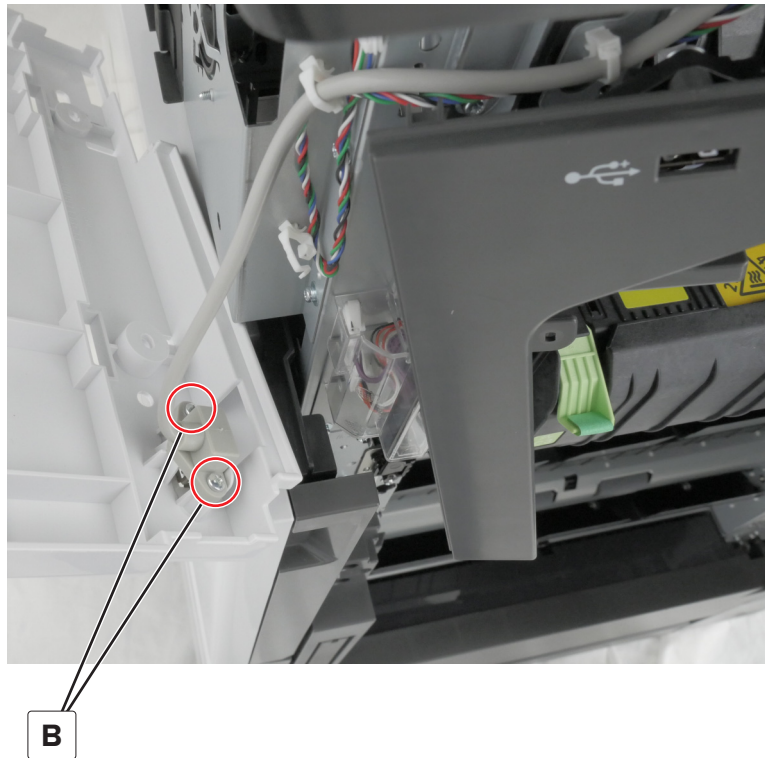
Speaker cover removal

- 1** Remove the speaker bottom cover. See [“Speaker bottom cover removal” on page 542](#).
2 Remove the USB port cover. See [“USB port cover removal” on page 437](#).

- 3** Remove the two screws (A), and then pull the cover.



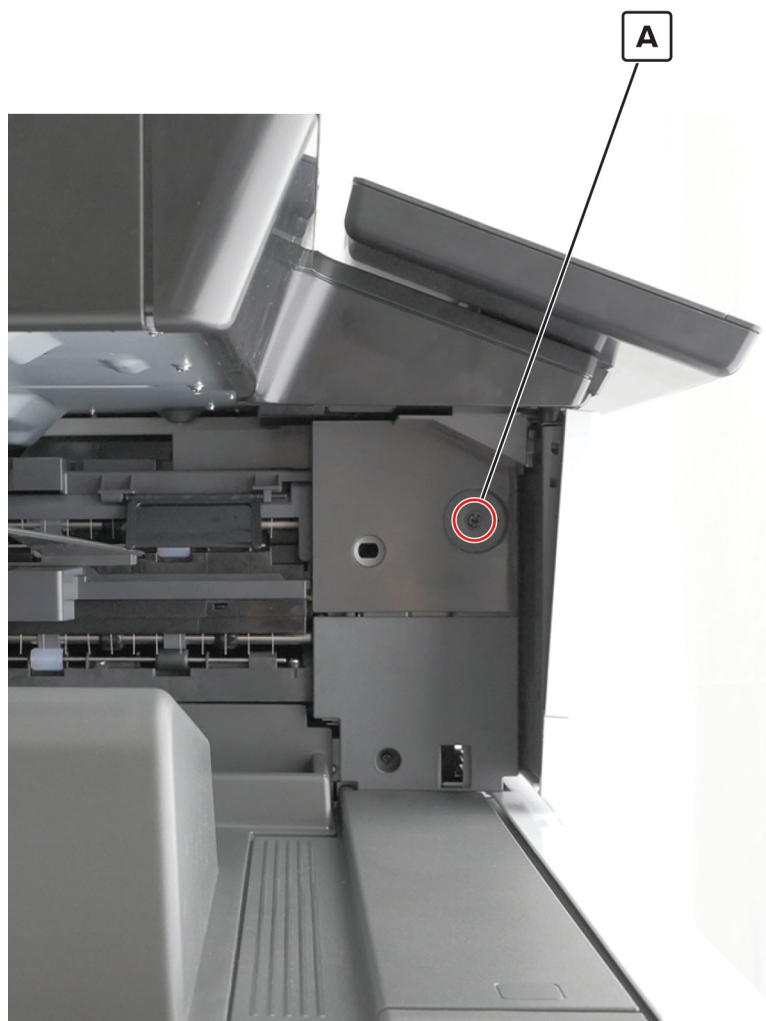
- 4** At the back of the cover, remove the two screws (B).



- 5** Remove the cover.

Control panel cable guide upper cover removal

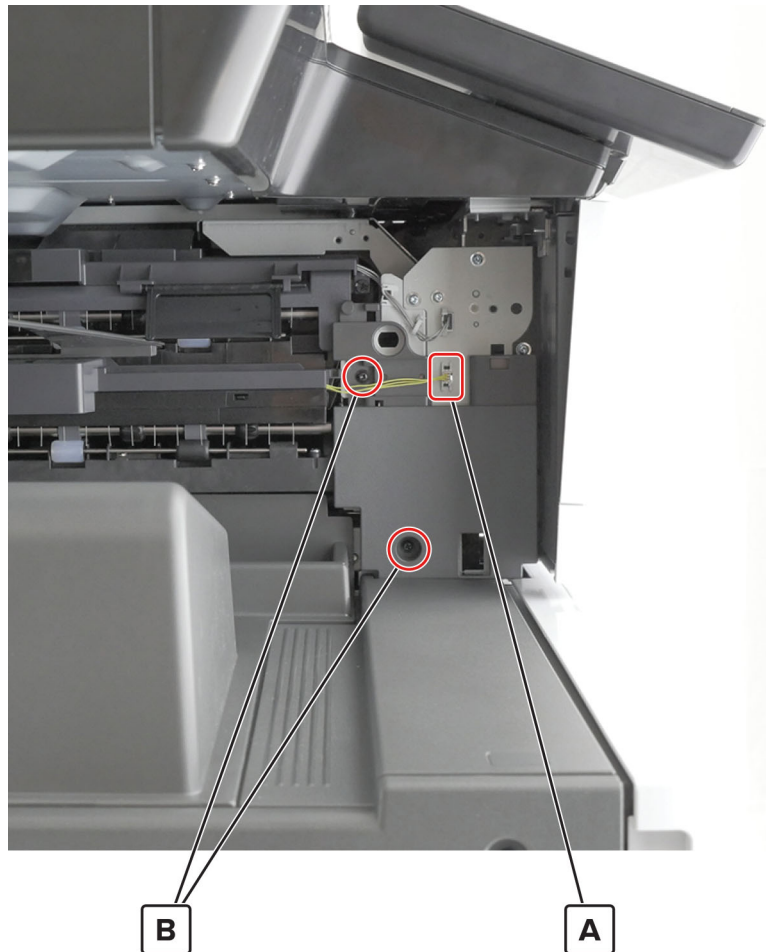
1 Remove the screw (A).



2 Remove the cover.

Control panel cable guide lower cover removal

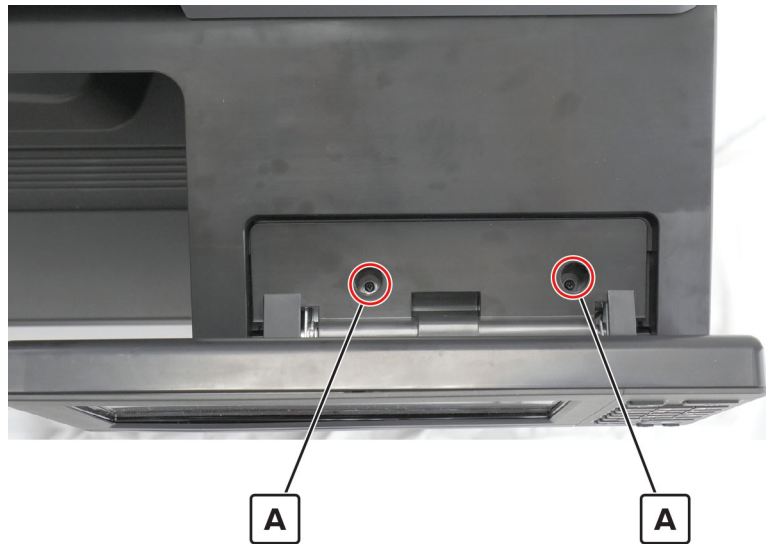
- 1 Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)
- 2 Disconnect the cable (A), and then remove the screws (B).



- 3 Remove the cover.

Control panel support base removal

- 1 Under the control panel, remove the two screws (A).

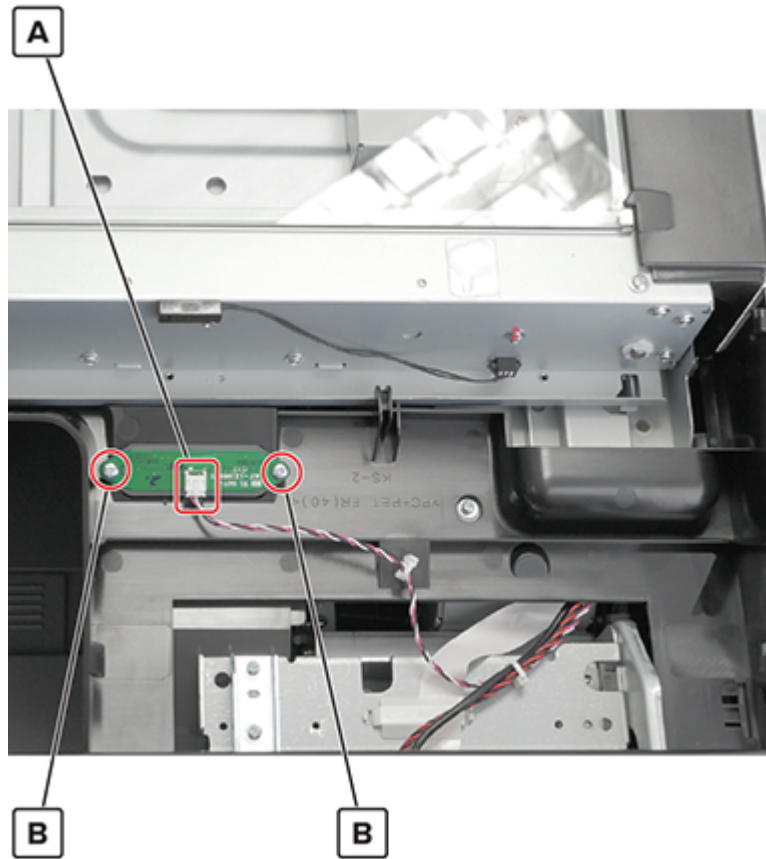


- 2 Remove the cover.

Cave light LED removal

- 1 Remove the control panel support base. See [“Control panel support base removal” on page 546](#).
- 2 Remove the scanner front cover. See [“Scanner front cover removal” on page 841](#).

- 3** Disconnect the cable (A), and then remove the two screws (B).



- 4** Remove the LED.

Control panel (10.1 inch) bezel removal

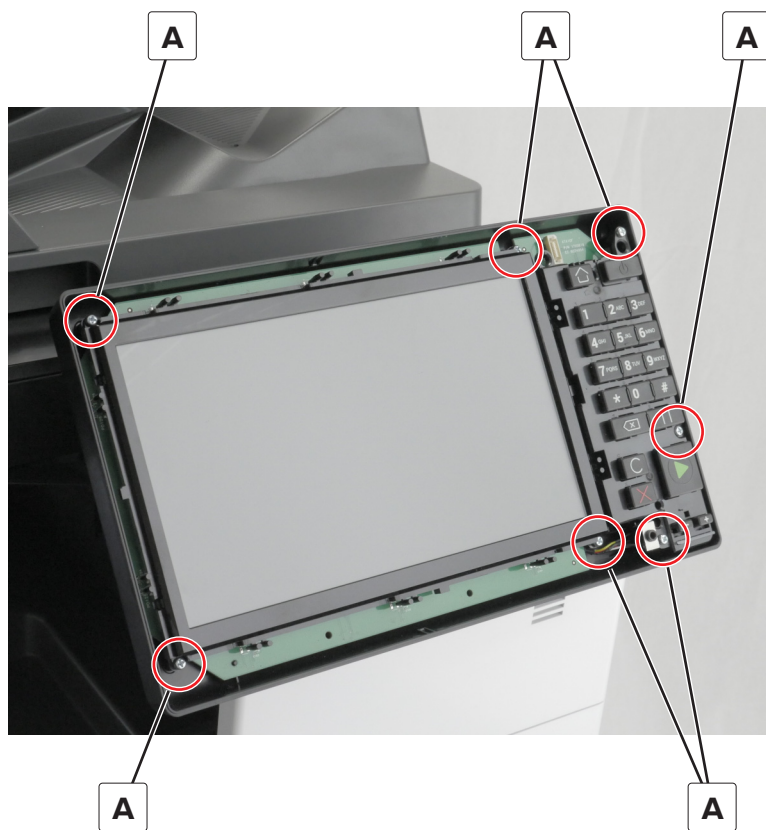
1 Pry the bezel to release.



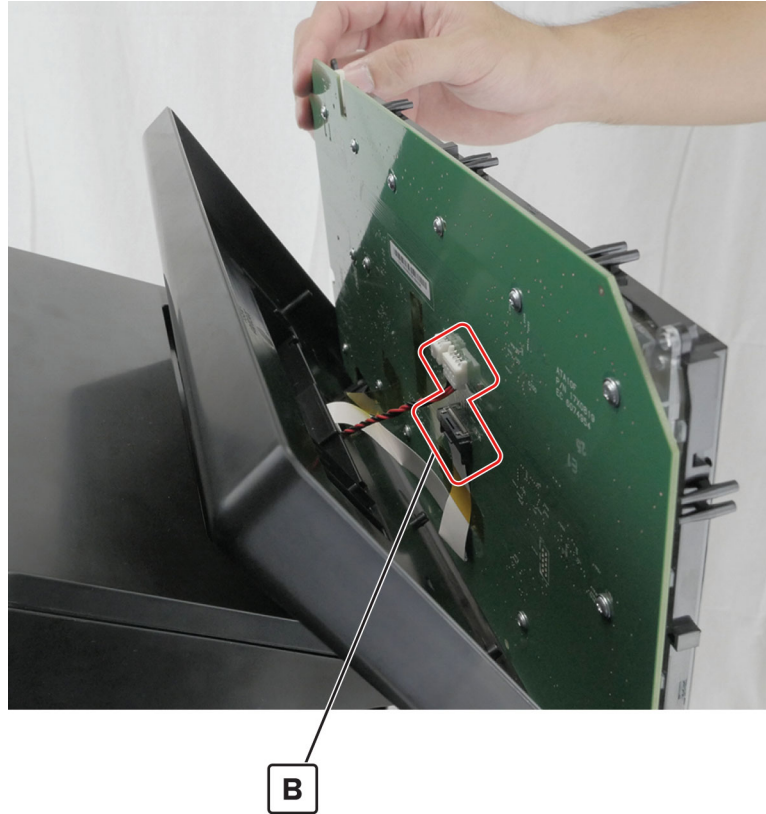
2 Remove the bezel.

Control panel (10.1 inch) board removal

- 1 Remove the control panel (10.1 inch) bezel. See [“Control panel \(10.1 inch\) bezel removal” on page 548](#).
- 2 Remove the seven screws (A).



- 3** Behind, the board, disconnect the cables (B).



- 4** Remove the board.

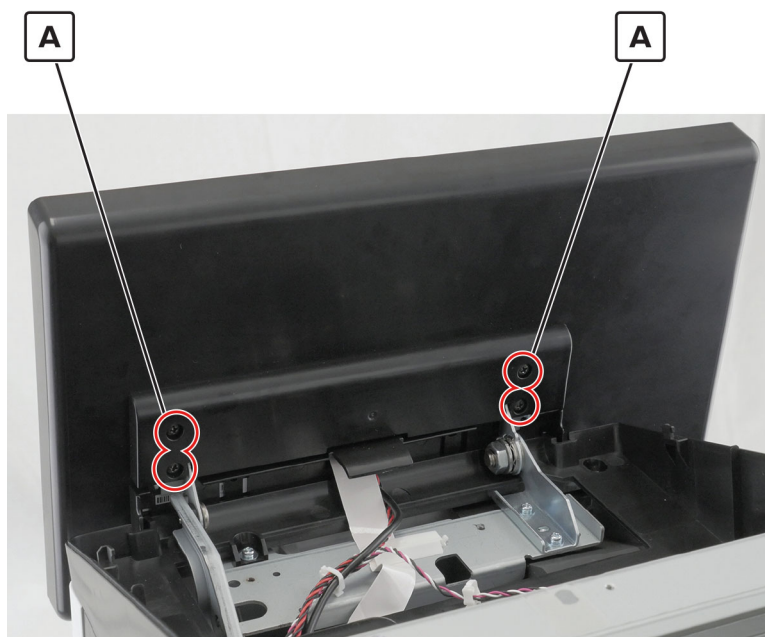
Control panel (10.1 inch) support cover removal

- 1** Remove the control panel support base. See [“Control panel support base removal” on page 546.](#)
- 2** Remove the control panel (10.1 inch) bezel. See [“Control panel \(10.1 inch\) bezel removal” on page 548.](#)
- 3** Remove the control panel (10.1 inch) board. See [“Control panel \(10.1 inch\) board removal” on page 549.](#)

- 4 Pry the retainer, and then release the headphone jack from the cover.



- 5 At the back of the cover, remove the four screws (A).

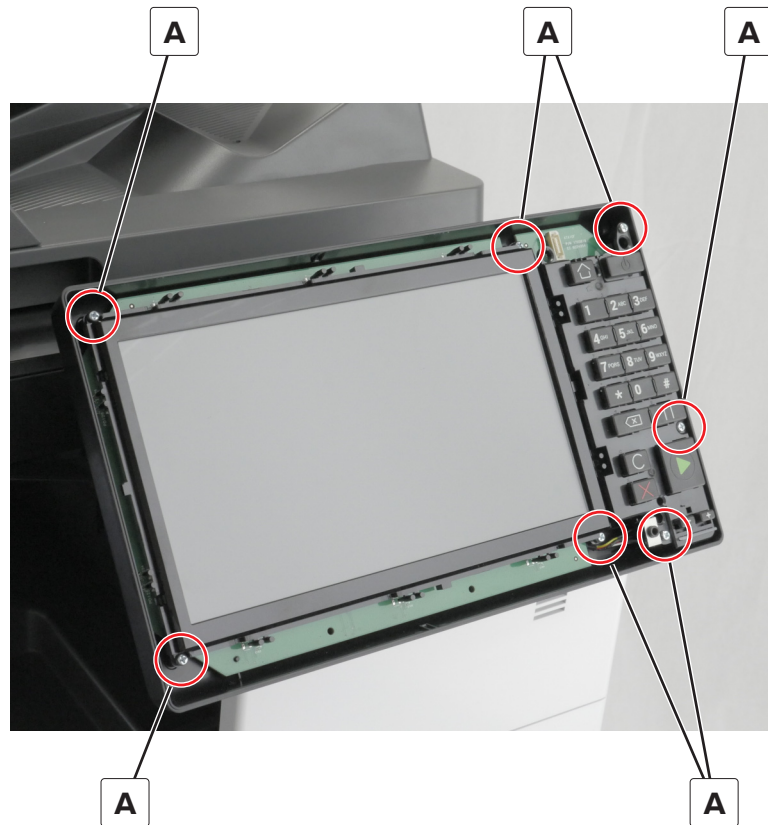


- 6 Remove the cover.

Control panel FFC removal

- 1 Remove the USB port cover. See [“USB port cover removal” on page 437](#).
- 2 Remove the scanner right cover. See [“Scanner right cover removal” on page 840](#).
- 3 Remove the top right edge cover. See [“Top right edge cover removal” on page 438](#).
- 4 Remove the control panel support base. See [“Control panel support base removal” on page 546](#).

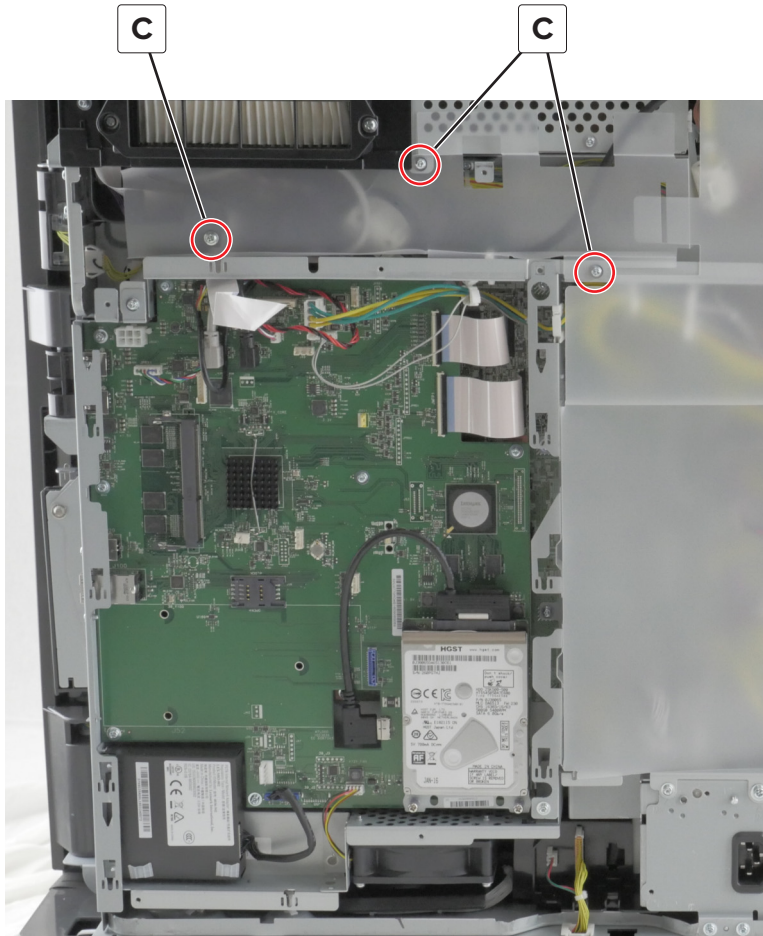
- 5 Remove the scanner front cover. See [“Scanner front cover removal” on page 841](#).
- 6 Remove the control panel (10.1 inch) bezel. See [“Control panel \(10.1 inch\) bezel removal” on page 548](#).
- 7 Remove the filter cover. See [“Air deflector hood removal” on page 602](#).
- 8 Remove the fuser exhaust filter. See [“Fuser exhaust filter removal” on page 603](#).
- 9 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 10 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 11 Remove the scanner left cover. See [“Scanner left cover removal” on page 839](#).
- 12 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 13 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).
- 14 Remove the controller board shield. See [“Controller board shield removal” on page 613](#).
- 15 Remove the paper exit fan cover. See [“Paper exit fan removal” on page 639](#).
- 16 Remove the seven screws (A).



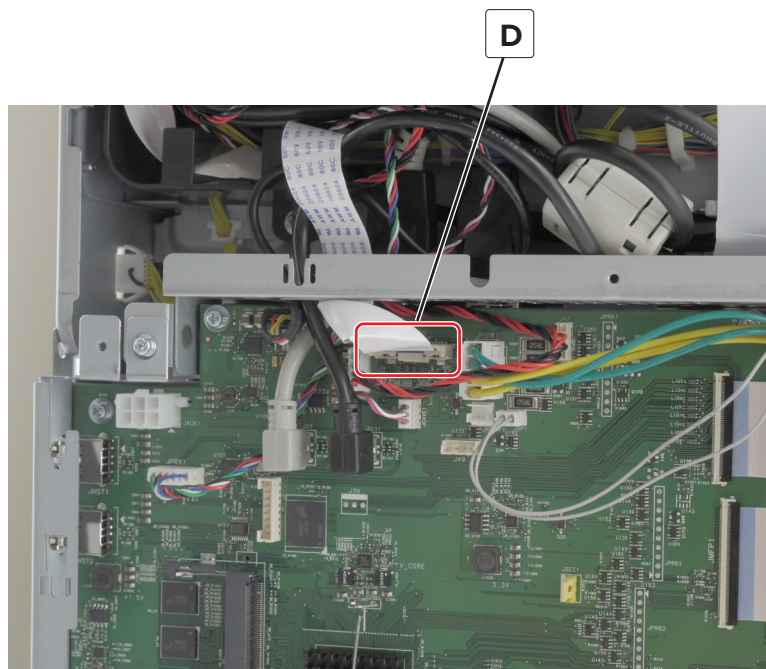
- 17** At the back of the board, disconnect the cable (B).



18 From the rear side, remove the three screws (C) to access the parts behind the cover.



19 Disconnect the connector (D), and then remove the cable.

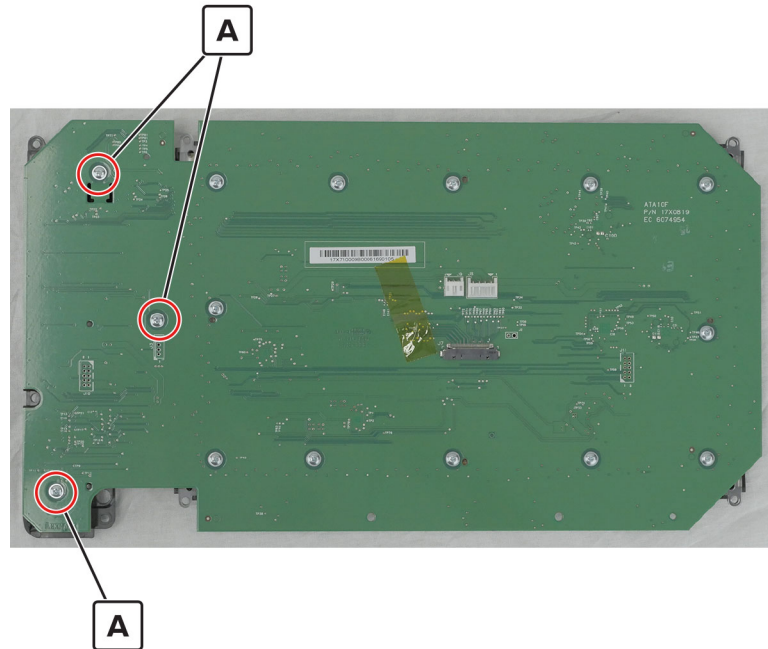


Parts removal

Installation note: Make sure that the cable is properly routed.

Keypad removal

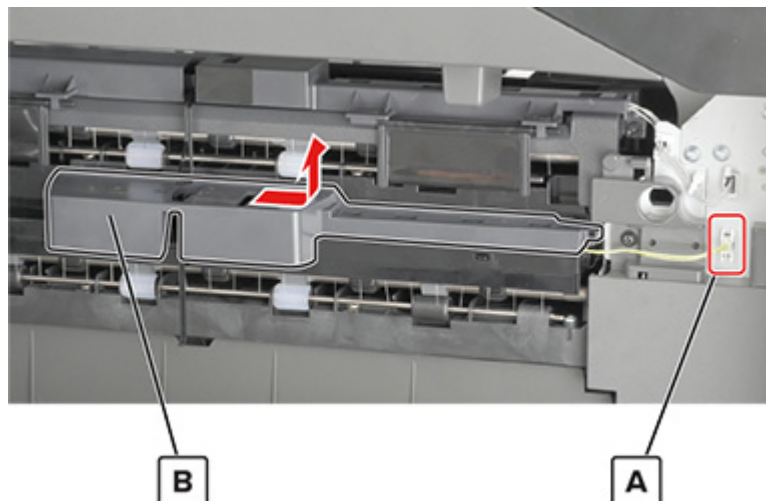
- 1 Remove the control panel (10.1 inch) bezel. See [“Control panel \(10.1 inch\) bezel removal” on page 548](#).
- 2 Remove the control panel (10.1 inch) board. See [“Control panel \(10.1 inch\) board removal” on page 549](#).
- 3 Remove the three screws (A) at the back of the board, and then remove the keypad.



Standard bin exit assembly removal

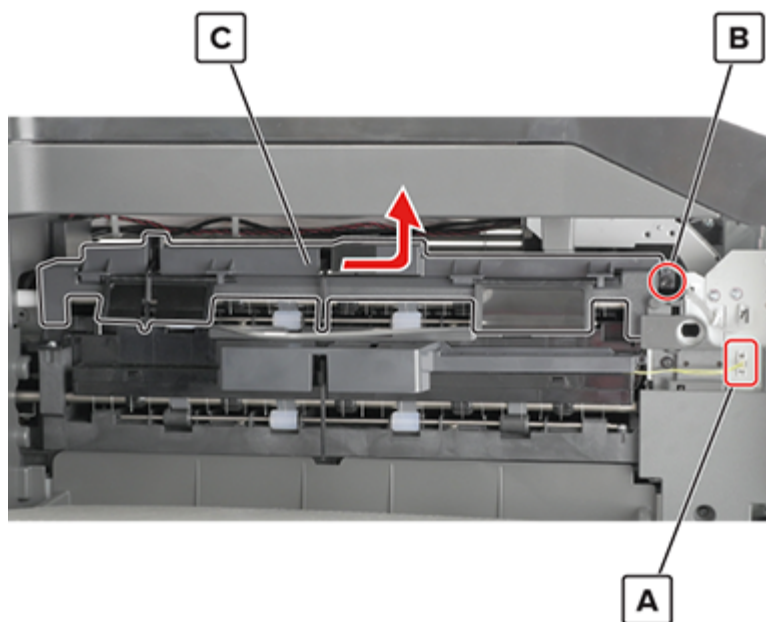
- 1 Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544](#).
- 2 Remove the standard bin paper bail.

- 3 Disconnect the cable (A), and then remove the sensor assembly (B).



Redrive exit guide removal

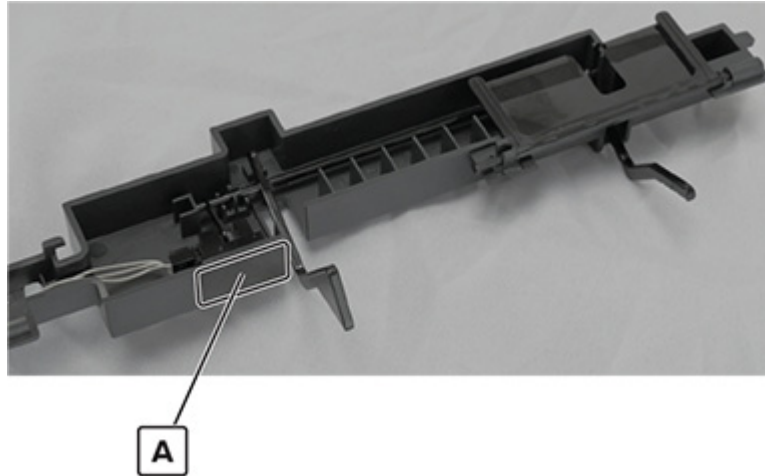
- 1 Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)
- 2 Disconnect the cable (A), remove the screw (B), and then remove the redrive exit guide (C).



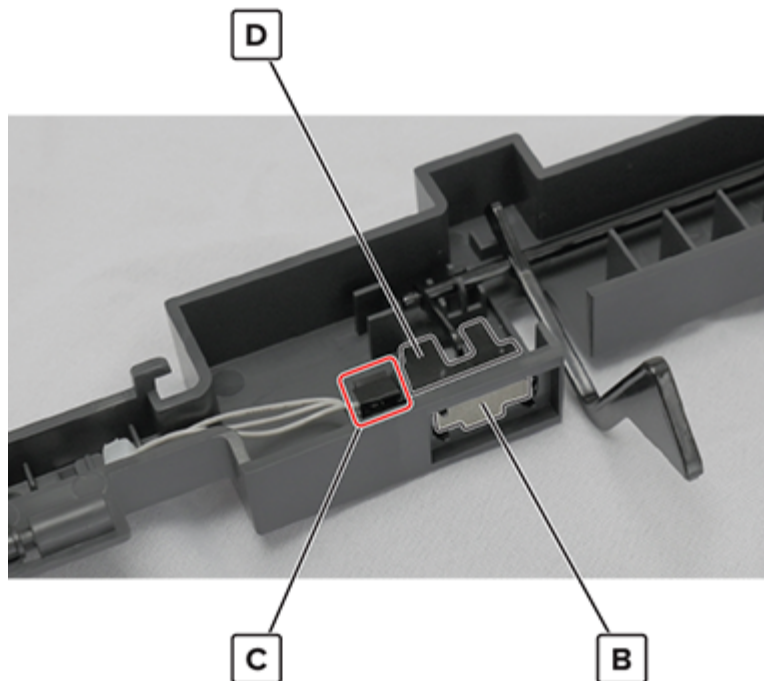
Sensor (redrive exit) removal

- 1 Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)
- 2 Remove the redrive exit guide. See [“Redrive exit guide removal” on page 556.](#)

- 3** Remove the Mylar cover (A).



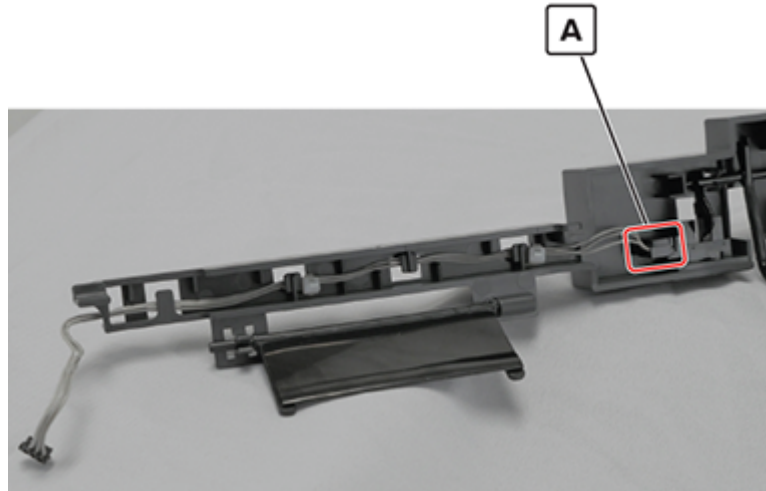
- 4** Remove the Mylar (B), disconnect the cable (C), and then remove the sensor (D).



Redrive exit sensor cable removal

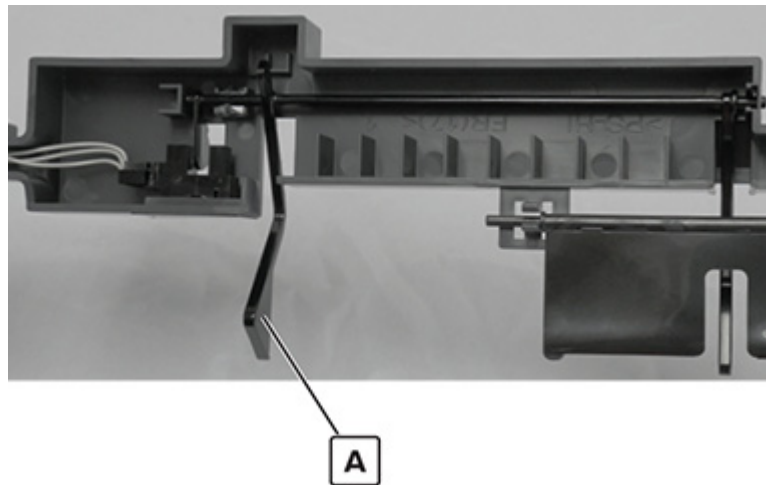
- 1** Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)
- 2** Remove the redrive exit guide. See [“Redrive exit guide removal” on page 556.](#)

- 3 Disconnect the cable (A), and then remove the cable from the cable guides.



Redrive exit sensor actuator removal

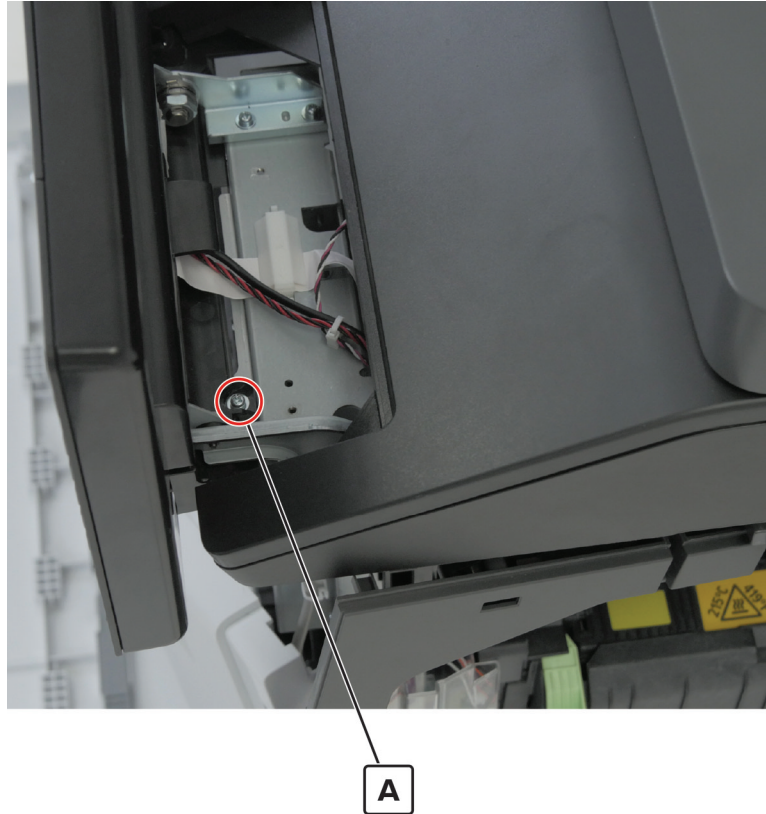
- 1 Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)
- 2 Remove the redrive exit guide. See [“Redrive exit guide removal” on page 556.](#)
- 3 Remove the actuator (A).



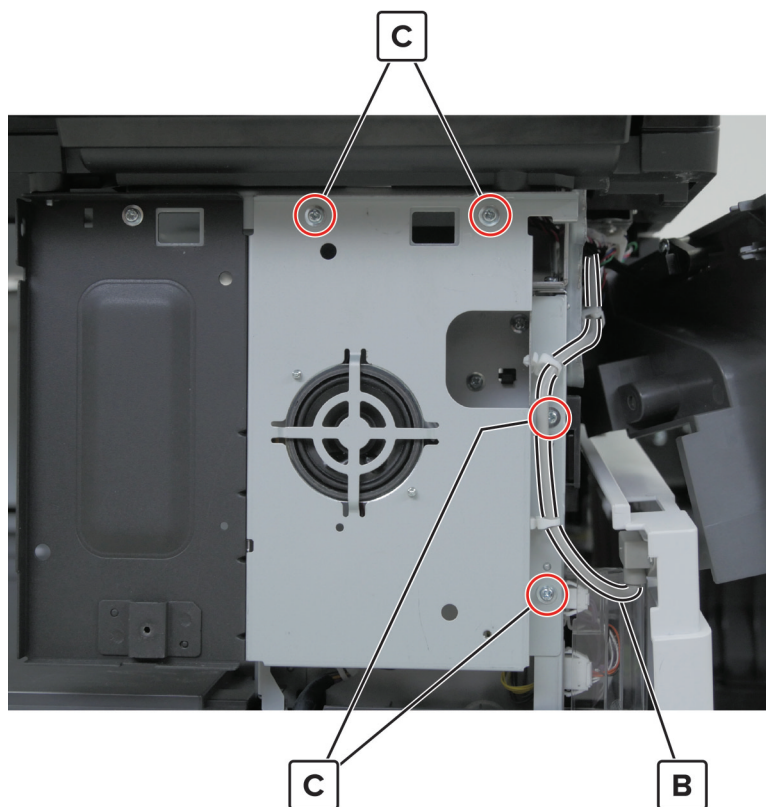
Speaker removal

- 1 Remove the USB port cover. See [“USB port cover removal” on page 437.](#)
- 2 Remove the speaker bottom cover. See [“Speaker bottom cover removal” on page 542.](#)
- 3 Remove the speaker cover. See [“Speaker cover removal” on page 542.](#)
- 4 Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)

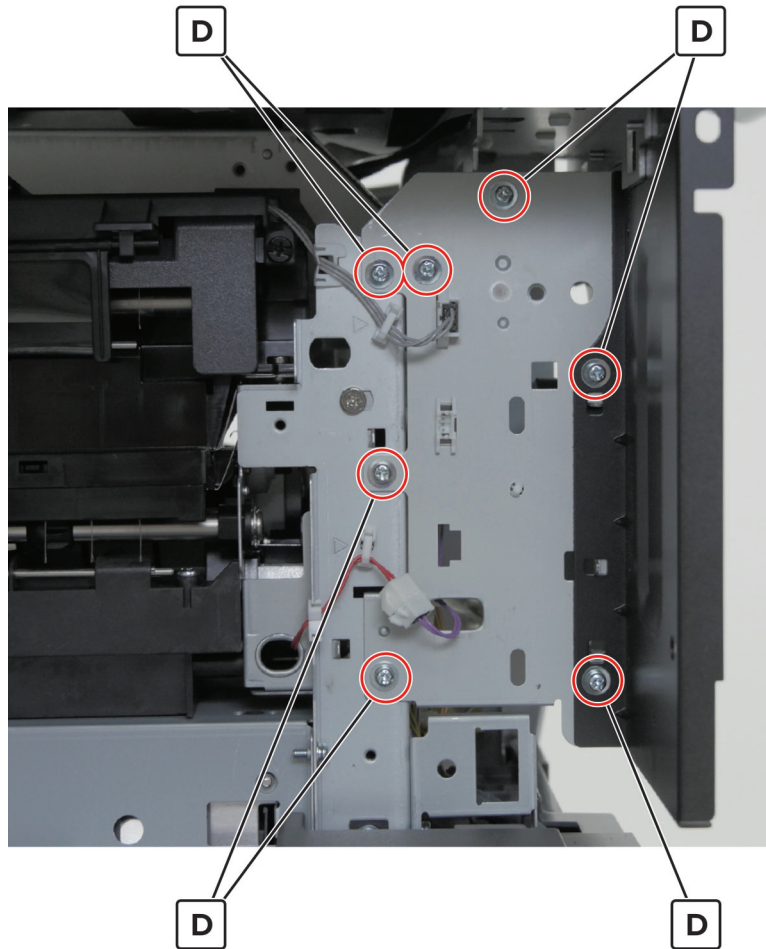
- 5 Remove the control panel cable guide lower cover. See [“Control panel cable guide lower cover removal” on page 545](#).
- 6 Remove the control panel support base. See [“Control panel support base removal” on page 546](#).
- 7 Behind the control panel, remove the screw (A).



- 8** Release the cable (B) from the bracket, and then remove the four screws (C).

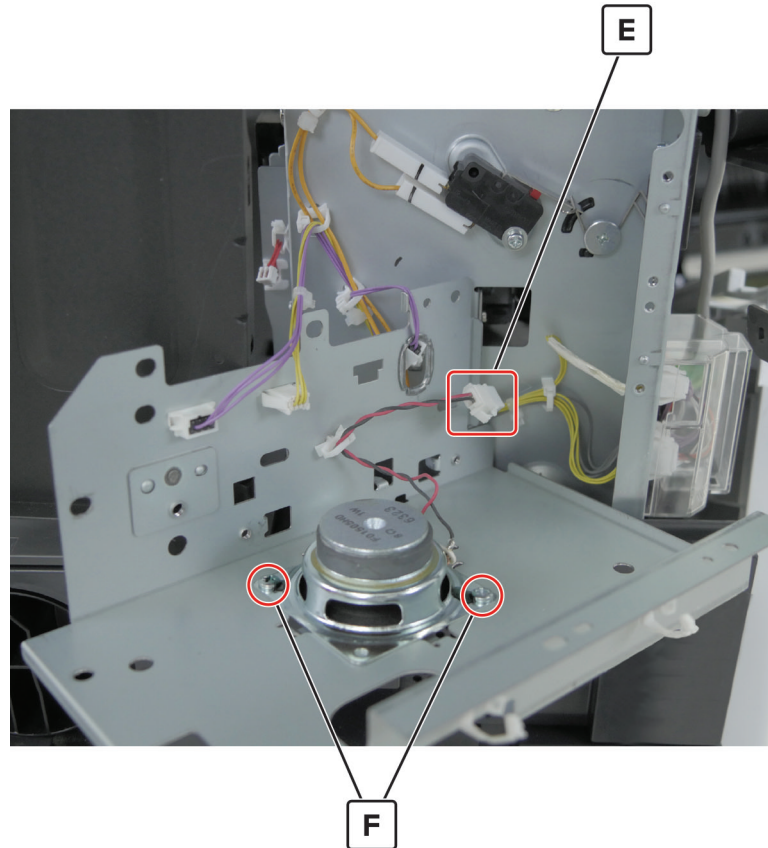


- 9** Disconnect the cables from the bracket, and then remove the seven screws (D).



- 10** Pull the bracket, and then disconnect and release the cable (E) from the bracket.

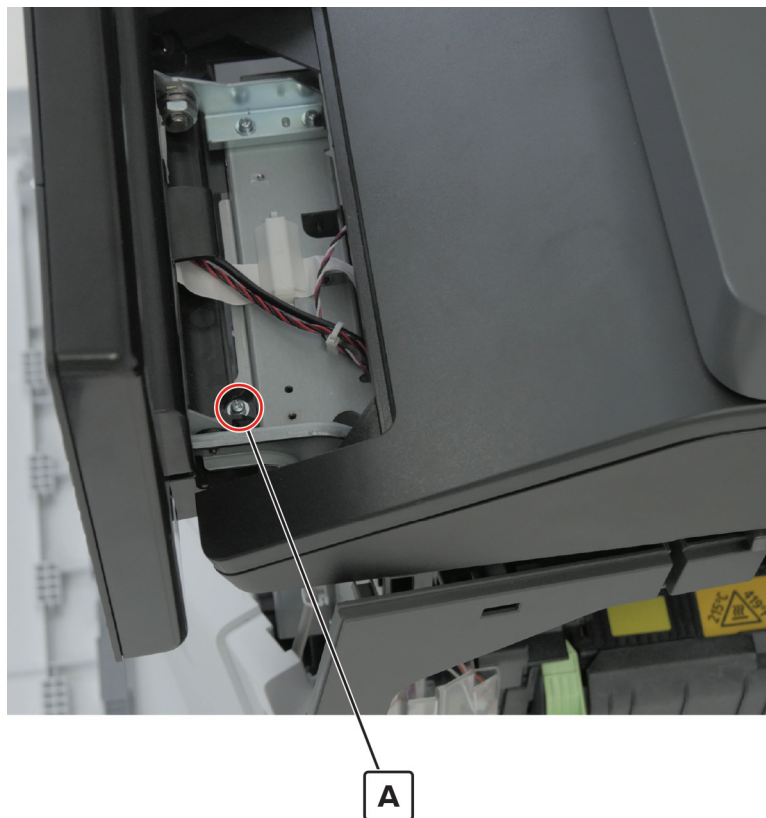
- 11** Remove the two screws (F), and then remove the speaker.



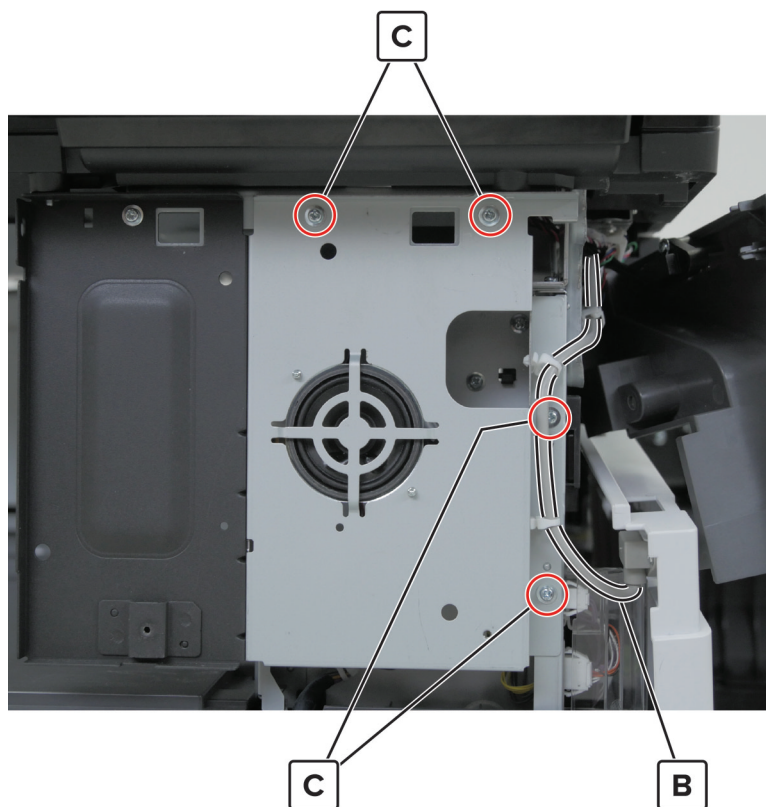
Right door switch removal

- 1** Remove the speaker bottom cover. See [“Speaker bottom cover removal” on page 542.](#)
- 2** Remove the USB port cover. See [“USB port cover removal” on page 437.](#)
- 3** Remove the speaker cover. See [“Speaker cover removal” on page 542.](#)
- 4** Remove the control panel cable guide upper cover. See [“Control panel cable guide upper cover removal” on page 544.](#)
- 5** Remove the control panel cable guide lower cover. See [“Control panel cable guide lower cover removal” on page 545.](#)
- 6** Remove the control panel support base. See [“Control panel support base removal” on page 546.](#)

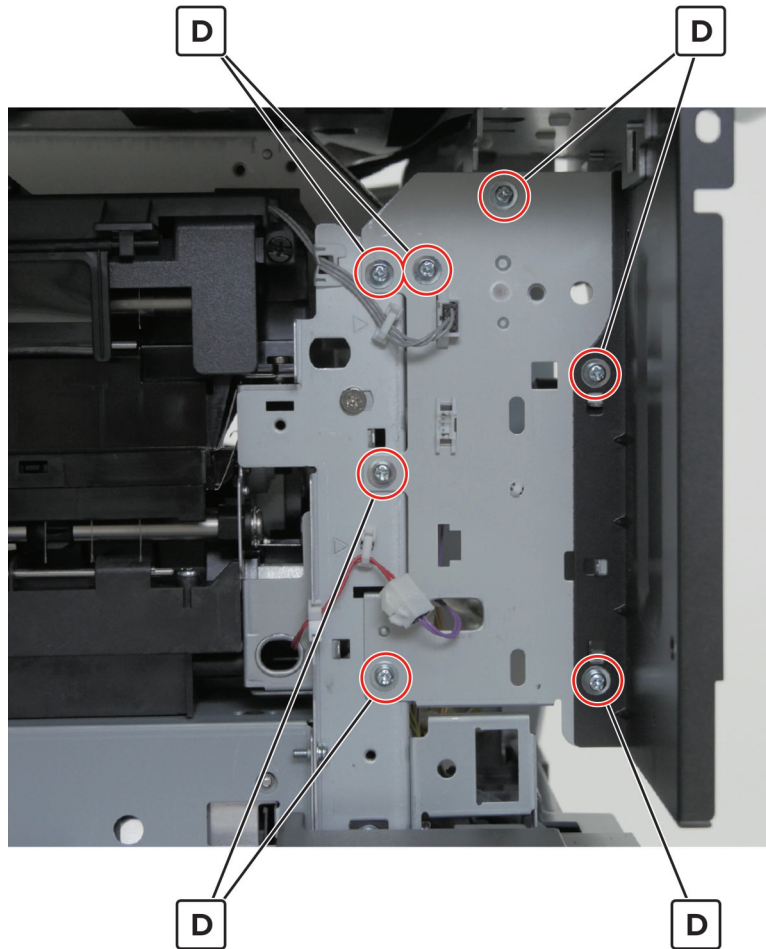
- 7** Behind the control panel, remove the screw (A).



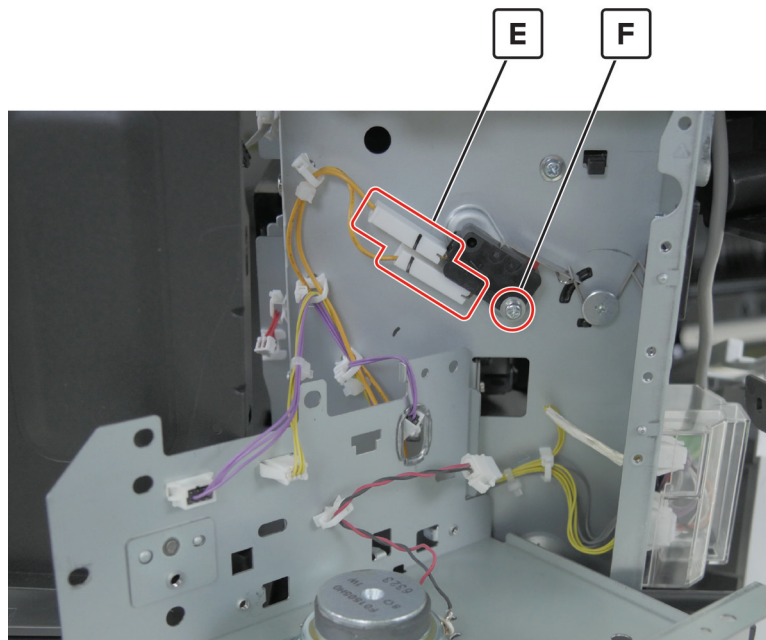
- 8** Release the cable (B) from the bracket, and then remove the four screws (C).



- 9** Disconnect the cables from the bracket, and then remove the seven screws (D).



- 10** Pull the bracket, disconnect the two cables (E), and then remove the screw (F).



Parts removal

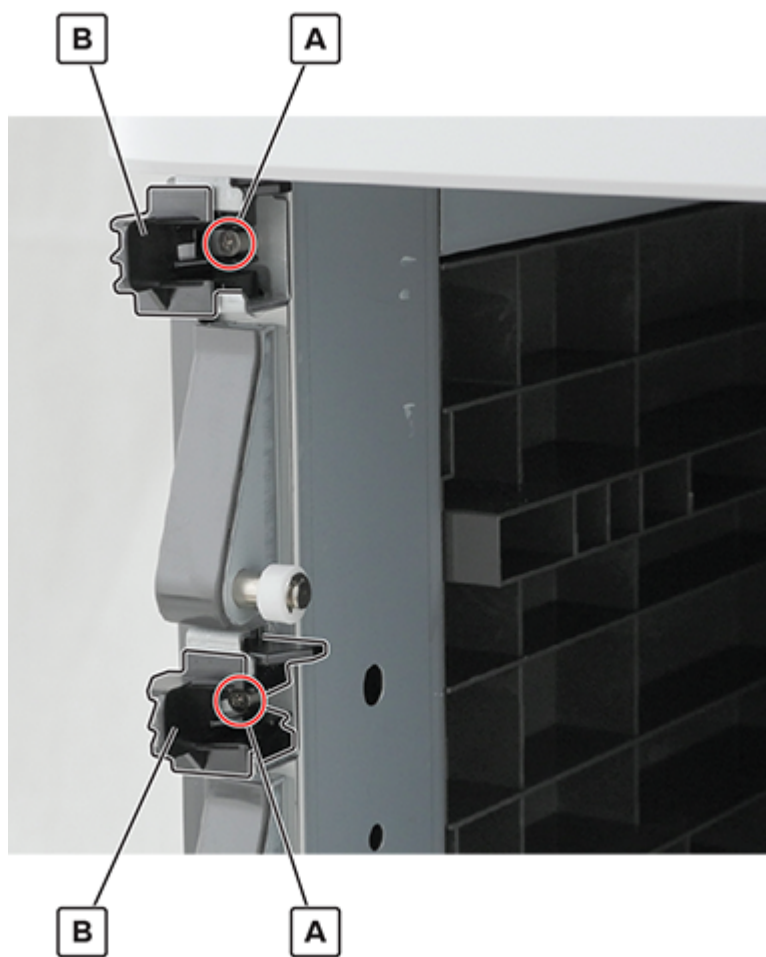
11 Remove the switch.

Installation note: Make sure that the switch lever is properly engaged with its actuator.



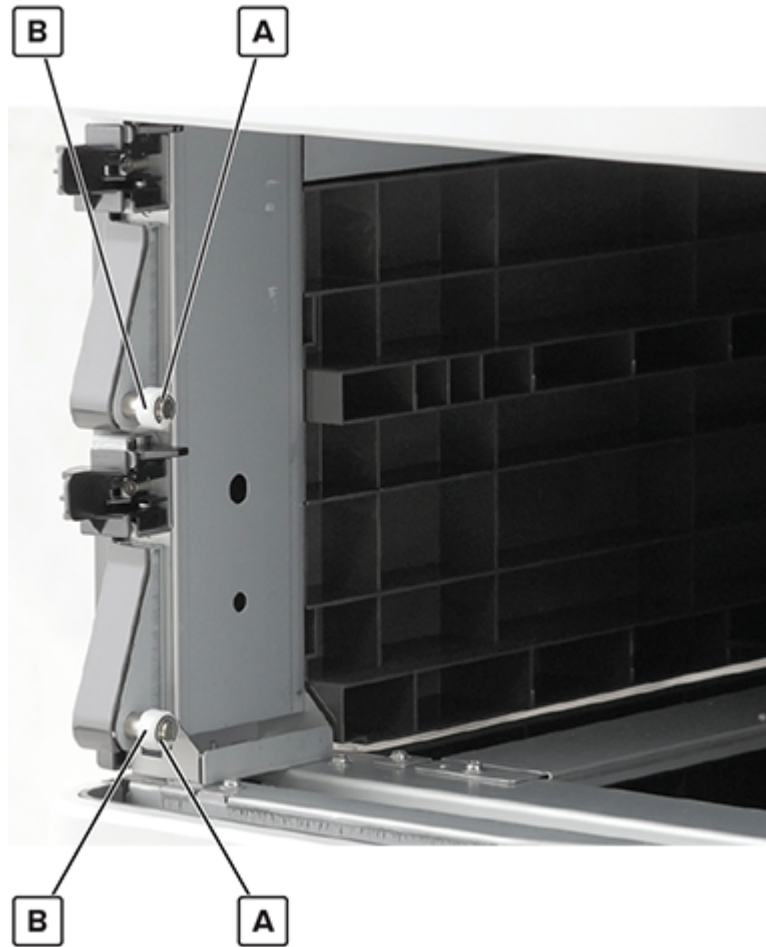
Tray 1 and tray 2 stoppers removal

- 1 Remove the tray 1 and tray 2 inserts.
- 2 Remove the two screws (A), and then remove the two stoppers (B).

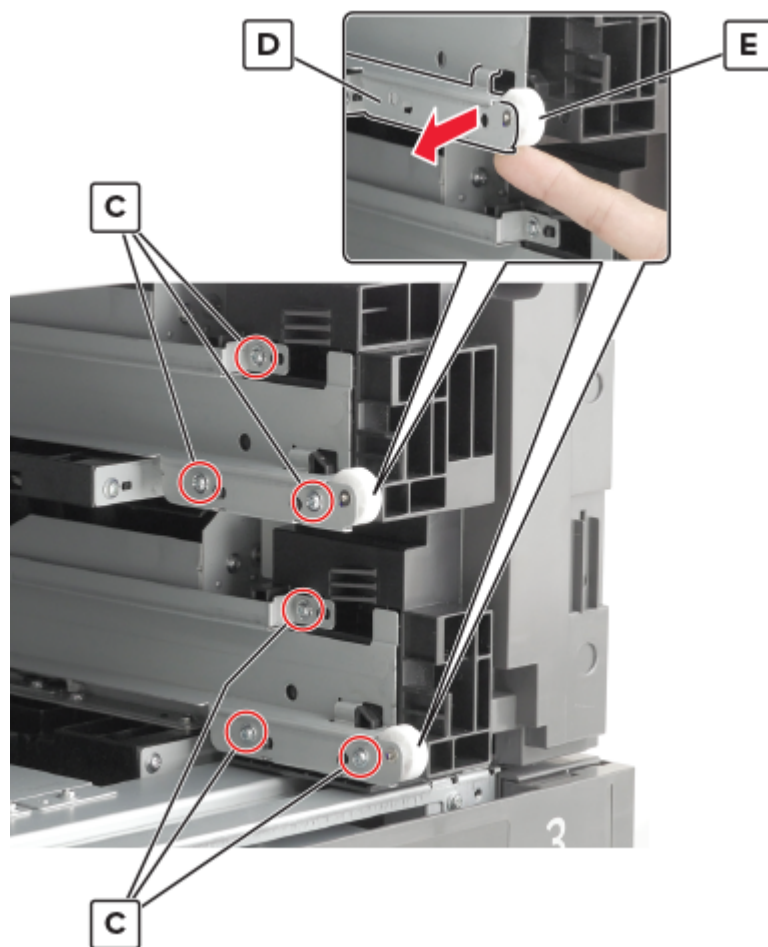


Tray 1 and tray 2 rail guide wheels removal

- 1 Remove the tray 1 and tray 2 inserts.
- 2 Remove the two E-clips (A), and then remove the two rollers (B).

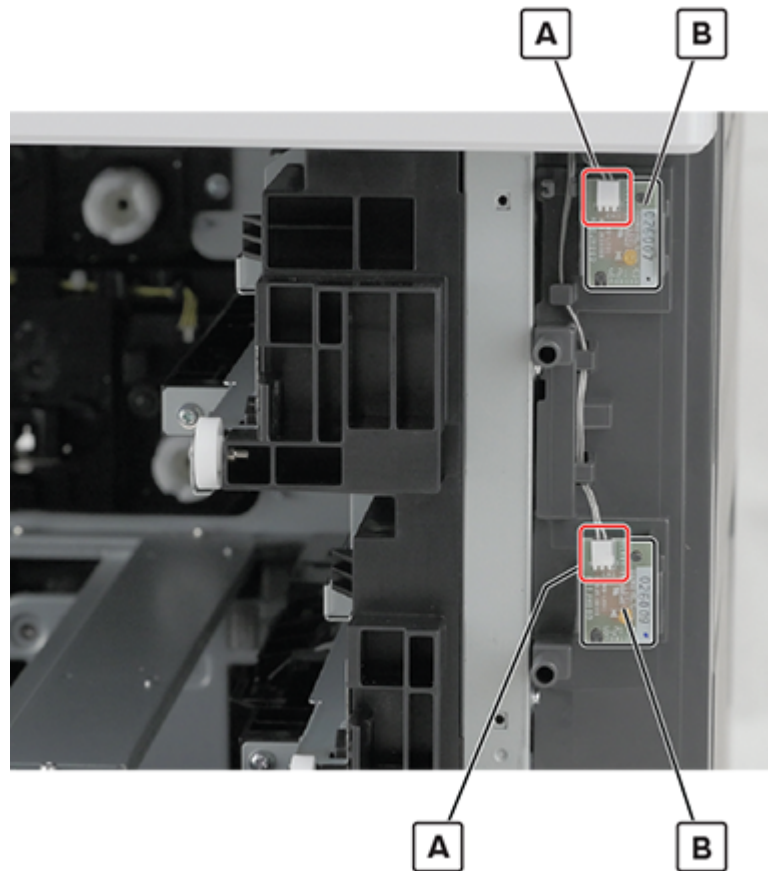


- 3** Remove the six screws (C), detach the bracket (D) from the frame, and then remove the two wheels (E).



Tray 1 and tray 2 empty LEDs removal

- 1 Remove the tray empty board cover. See [“Tray empty LED cover removal” on page 584](#).
- 2 Disconnect the two cables (A), and then remove the two LEDs (B).



Front inner cover removal

- 1 Open the front door.
- 2 Remove the three screws (A), and then remove the cover.

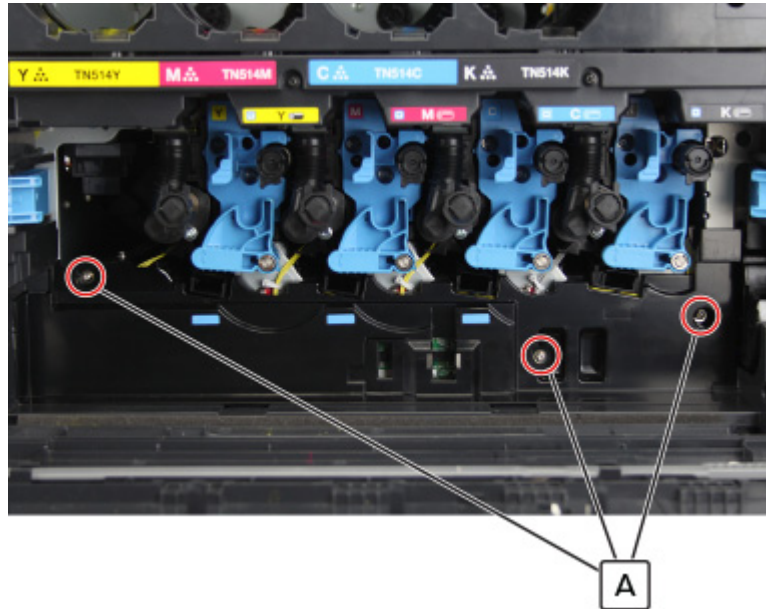
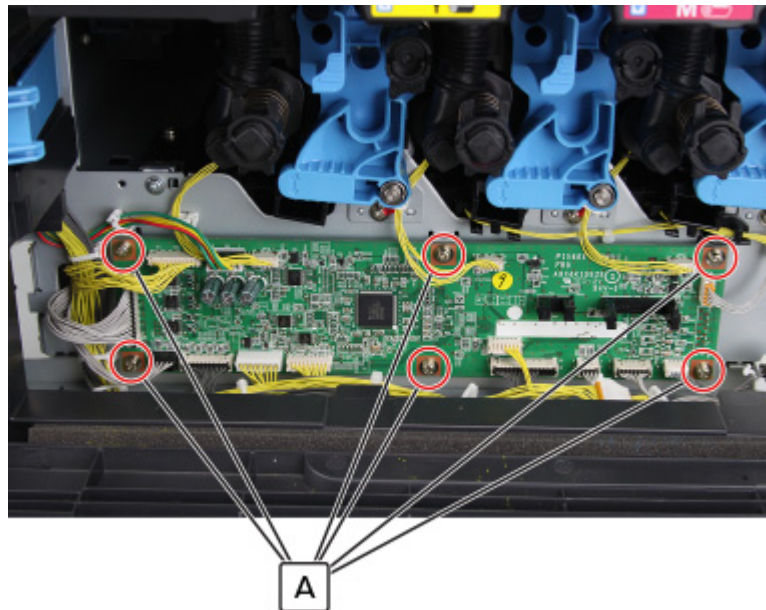


Image controller board removal

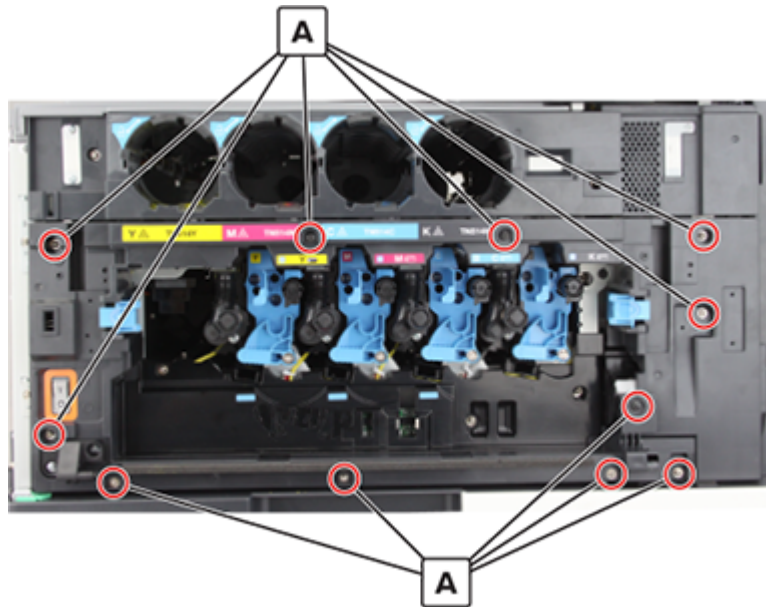
- 1 Remove the front inner cover. See [“Front inner cover removal” on page 571](#).
- 2 Disconnect all the cables, and then remove the six screws (A).



- 3 Remove the board.

Waste toner door mount removal

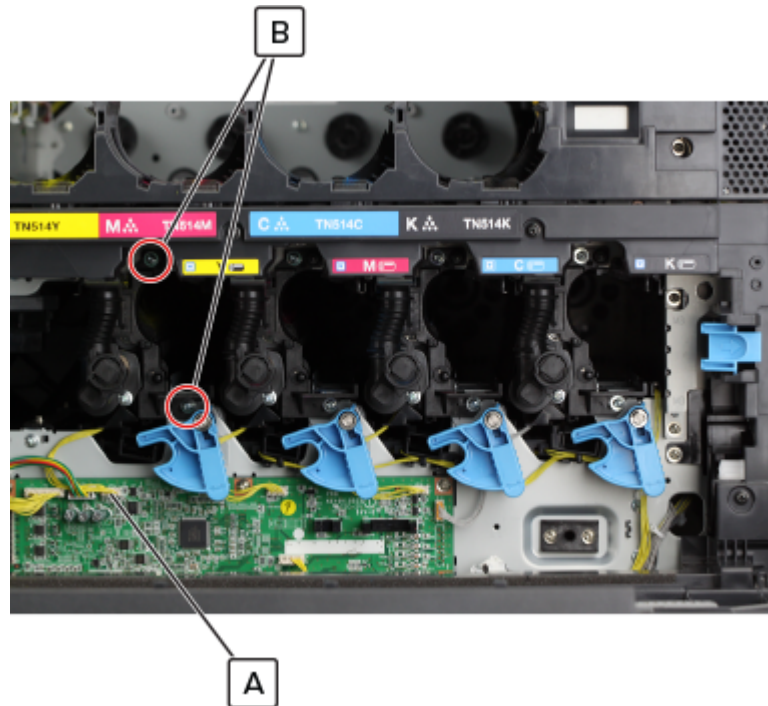
- 1 Remove the front door. See [“Front door removal” on page 541](#).
- 2 Open the front door, and then remove the 11 screws (A).



- 3 Remove the cover.

Developer unit (Y) removal

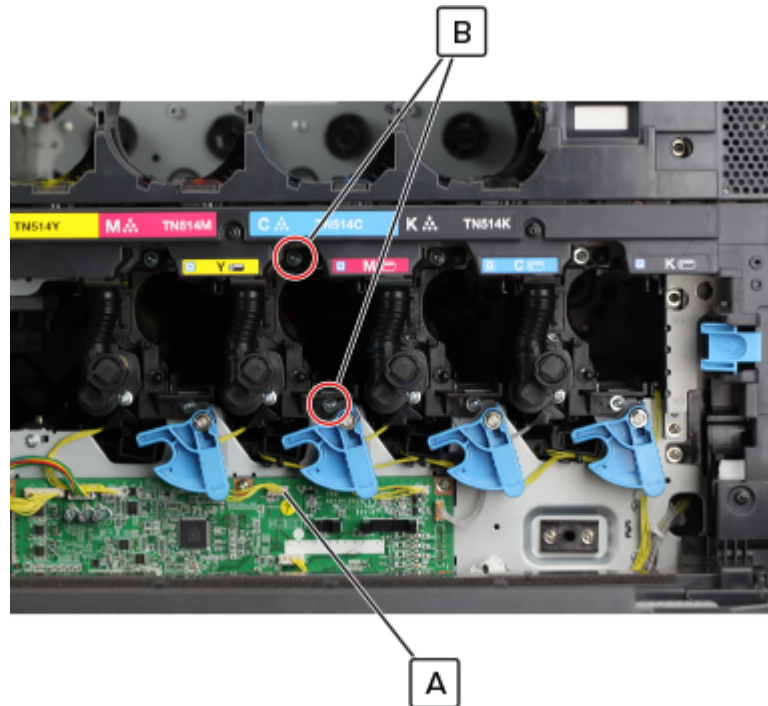
- 1 Remove the front inner cover. See [“Front inner cover removal” on page 571](#).
- 2 Disconnect the cable (A), and then remove the two screws (B).



- 3 Remove the developer.

Developer unit (M) removal

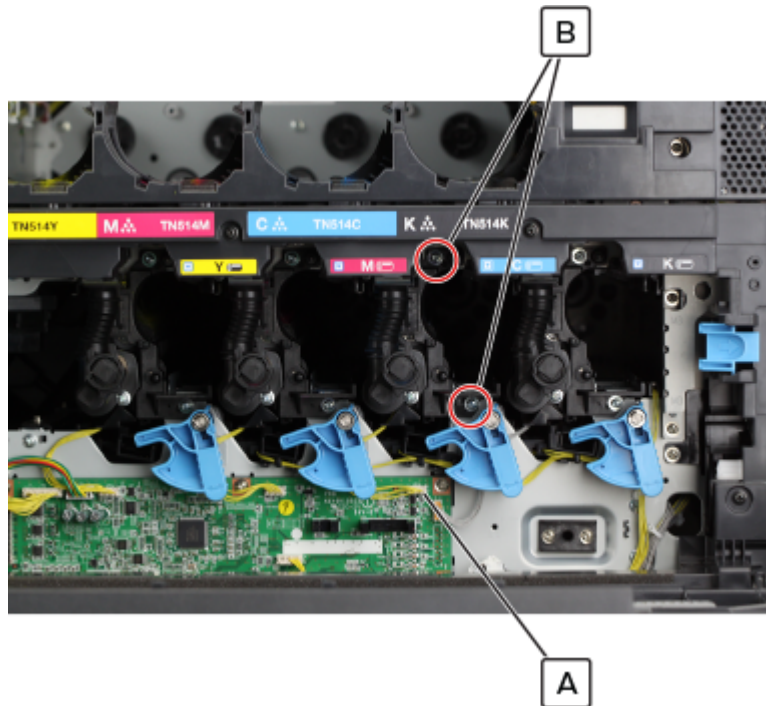
- 1 Remove the front inner cover. See [“Front inner cover removal” on page 571](#).
- 2 Disconnect the cable (A), and then remove the two screws (B).



- 3 Remove the developer.

Developer unit (C) removal

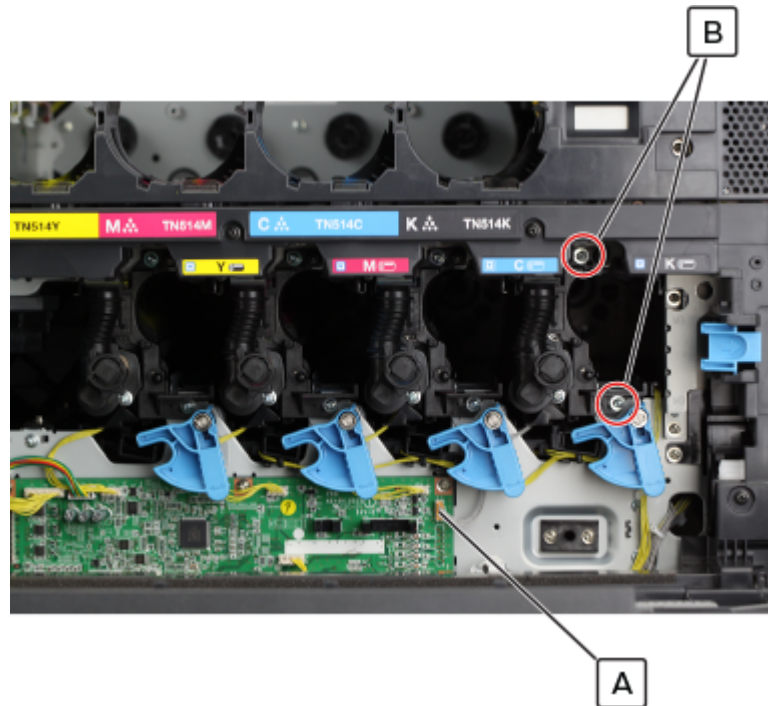
- 1 Remove the front inner cover. See [“Front inner cover removal” on page 571](#).
- 2 Disconnect the cable (A), and then remove the two screws (B).



- 3 Remove the developer.

Developer unit (K) removal

- 1 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 2 Disconnect the cable (A), and then remove the two screws (B).

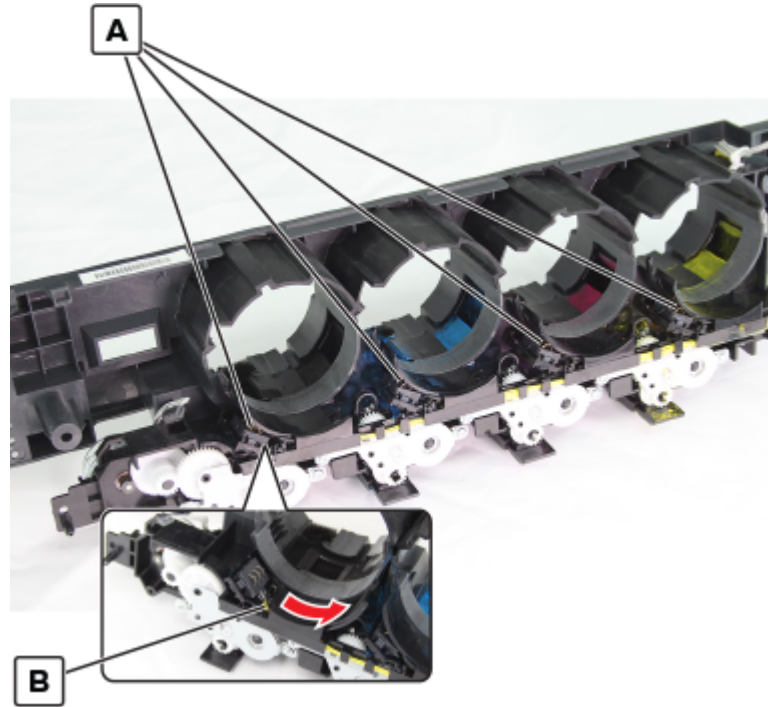


- 3 Remove the developer.

Toner cartridge contact removal

- 1 Remove the front door. See [“Front door removal” on page 541.](#)
- 2 Remove the left cover. See [“Left cover removal” on page 415.](#)
- 3 Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 4 Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 5 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 6 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 7 Remove the toner agitator. See [“Toner agitator removal” on page 592.](#)
- 8 Open the appropriate cover to access the contact (A).

- 9 Release the contact, and then disconnect its cable (B).

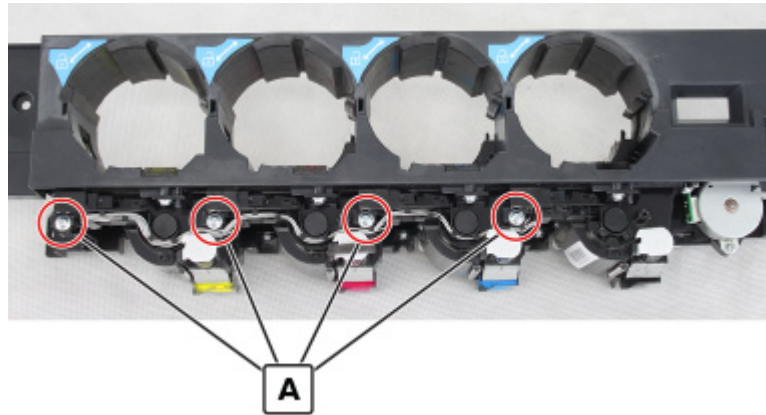


- 10 Remove the contact.

Sensor (toner empty) removal

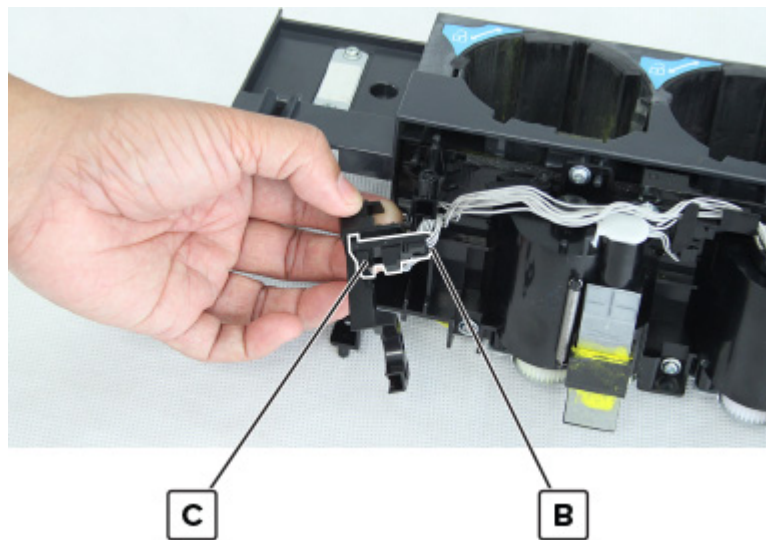
- 1 Remove the front door. See [“Front door removal” on page 541.](#)
- 2 Remove the left cover. See [“Left cover removal” on page 415.](#)
- 3 Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 4 Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 5 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 6 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 7 Remove the toner agitator. See [“Toner agitator removal” on page 592.](#)

- 8** Remove the screw (A) from the appropriate sensor.



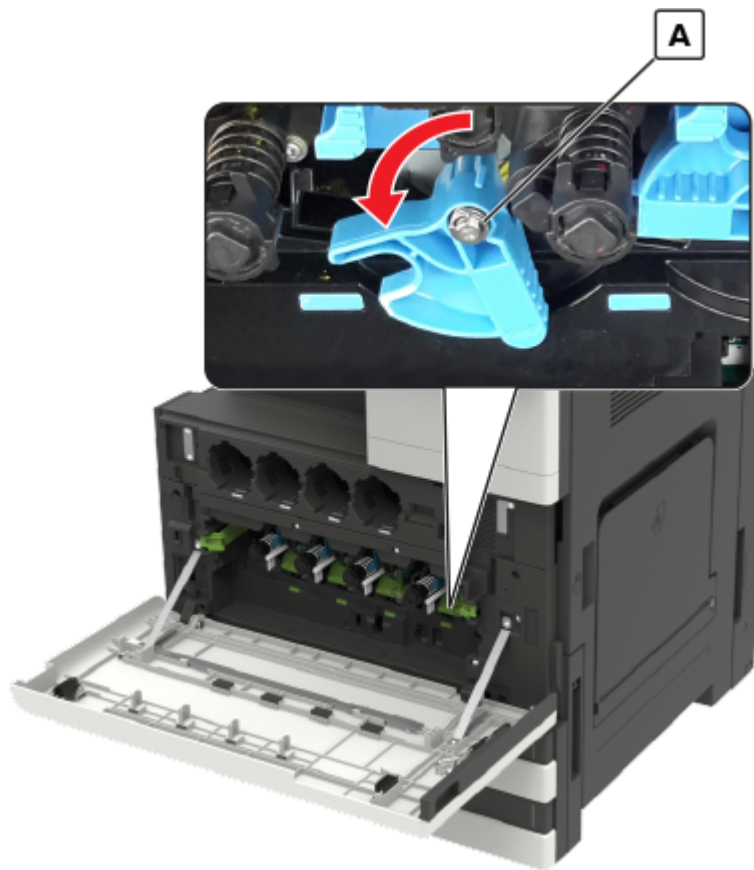
- 9** Release the sensor cable, pull the bracket, and then disconnect the cable (B).

- 10** Remove the sensor (C).



Photoconductor release lever removal

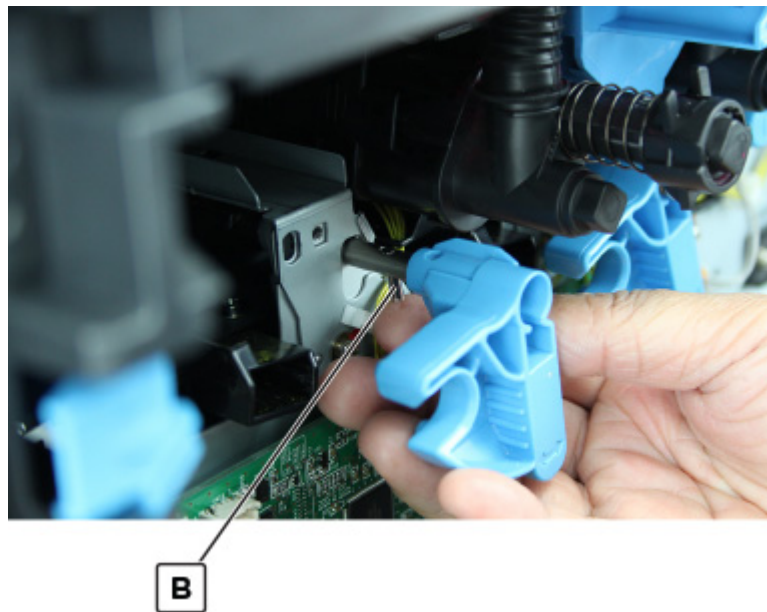
- 1 Open the front door.
- 2 Unlock the appropriate lever, and then remove the E-clip (A).



- 3 Pull the lever, and then remove it.

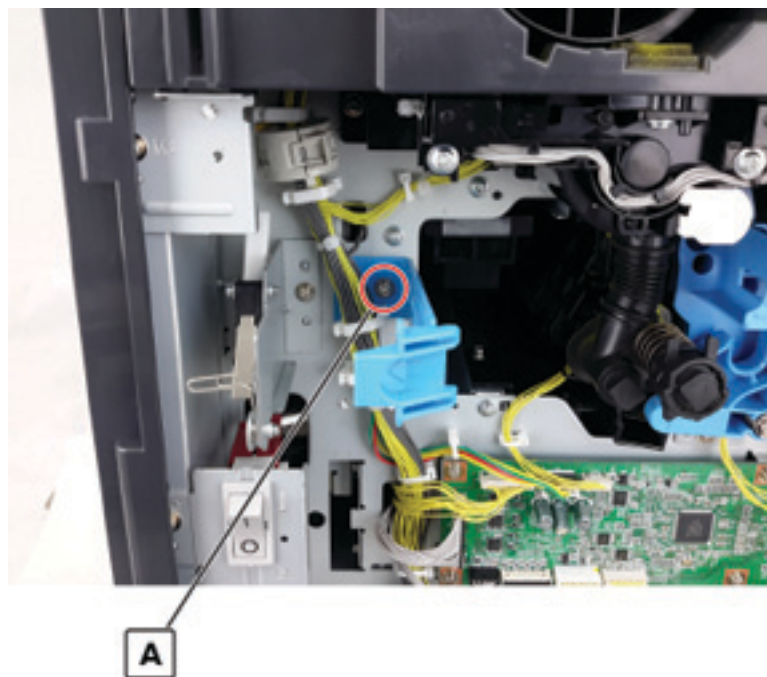
Warning—Potential Damage: Do not lose the pin (B).

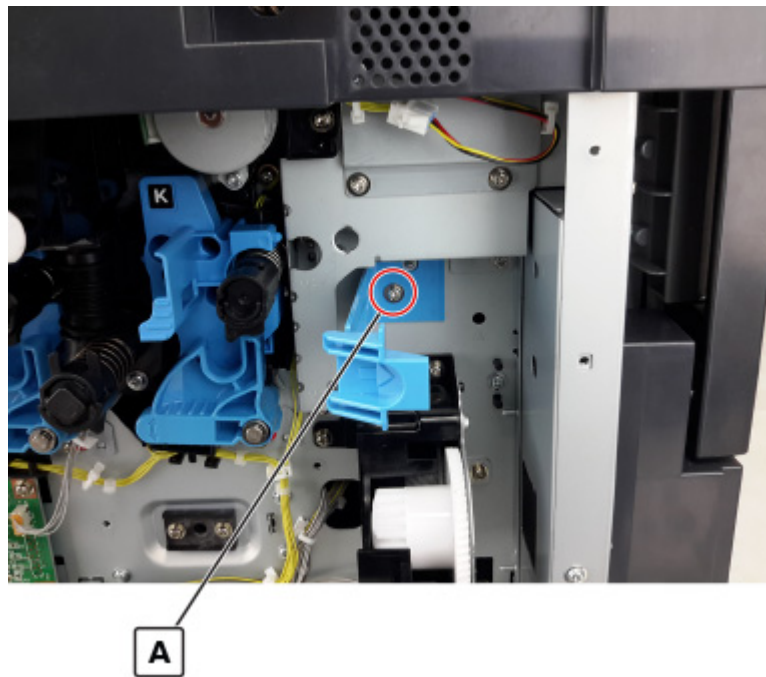
Installation note: Before inserting the lever to the shaft, insert the pin (B) and follow the pin position as shown.



Waste toner bottle latch removal

- 1 Remove the front door. See [“Front door removal” on page 541.](#)
- 2 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4 Remove the screw (A), and then remove the latch.

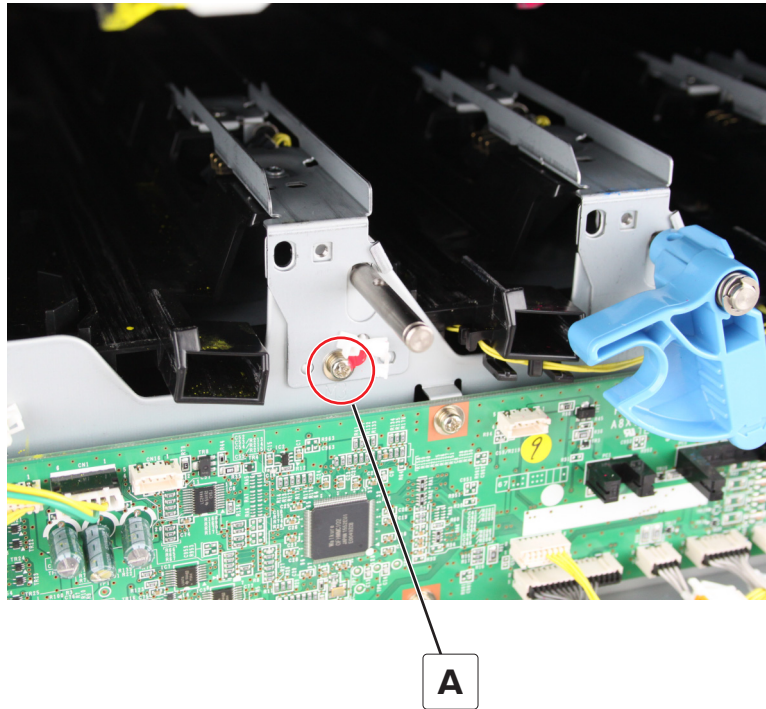




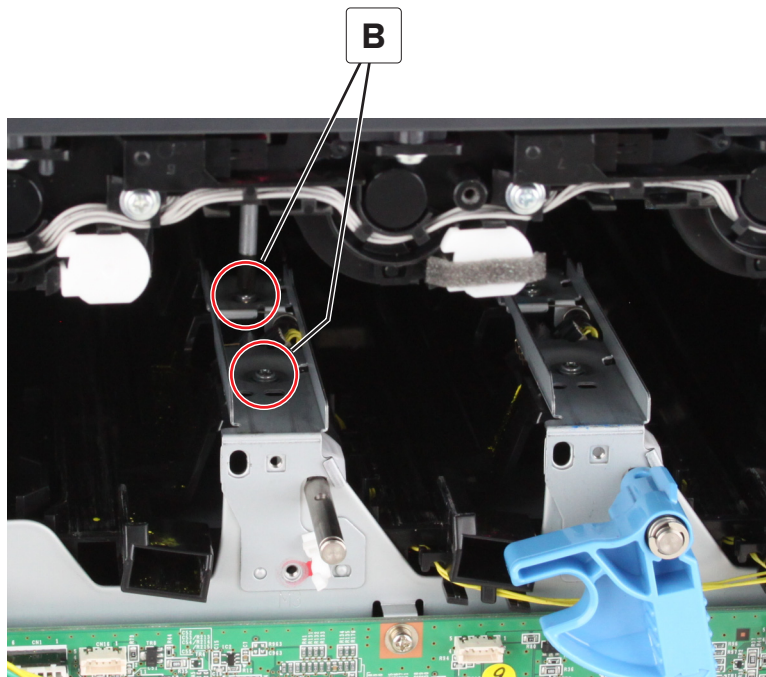
Photoconductor relay contact removal

- 1 Remove the front door. See [“Front door removal” on page 541.](#)
- 2 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4 Remove the photoconductor release lever. See [“Photoconductor release lever removal” on page 579.](#)

- 5 Remove the screw (A).



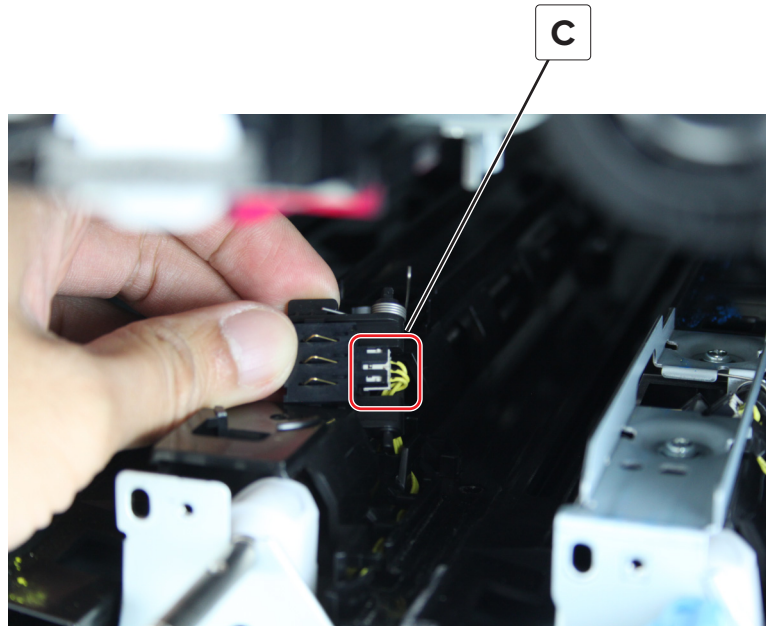
- 6 Remove the two screws (B).



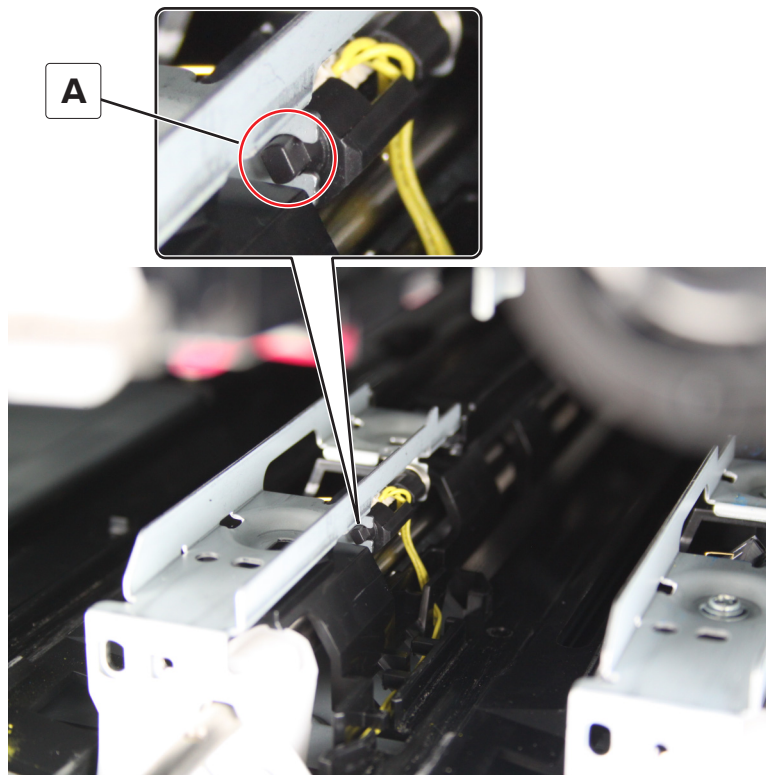
- 7 Remove the housing, and then separate it from the contact.

Warning—Potential Damage: Do not lose the spring.

8 Disconnect the cable (C), and then remove the contact.



Installation note: Make sure that the pin (A) is properly engaged with its frame joint.

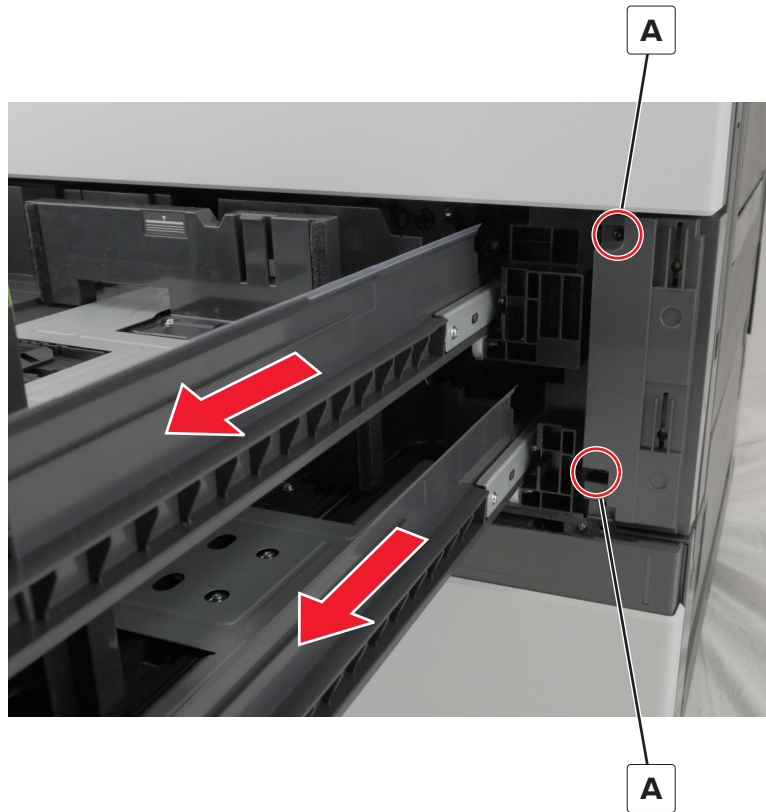


Installation note: Make sure that the spring is properly installed.

Installation note: Make sure that the cable is properly routed.

Tray empty LED cover removal

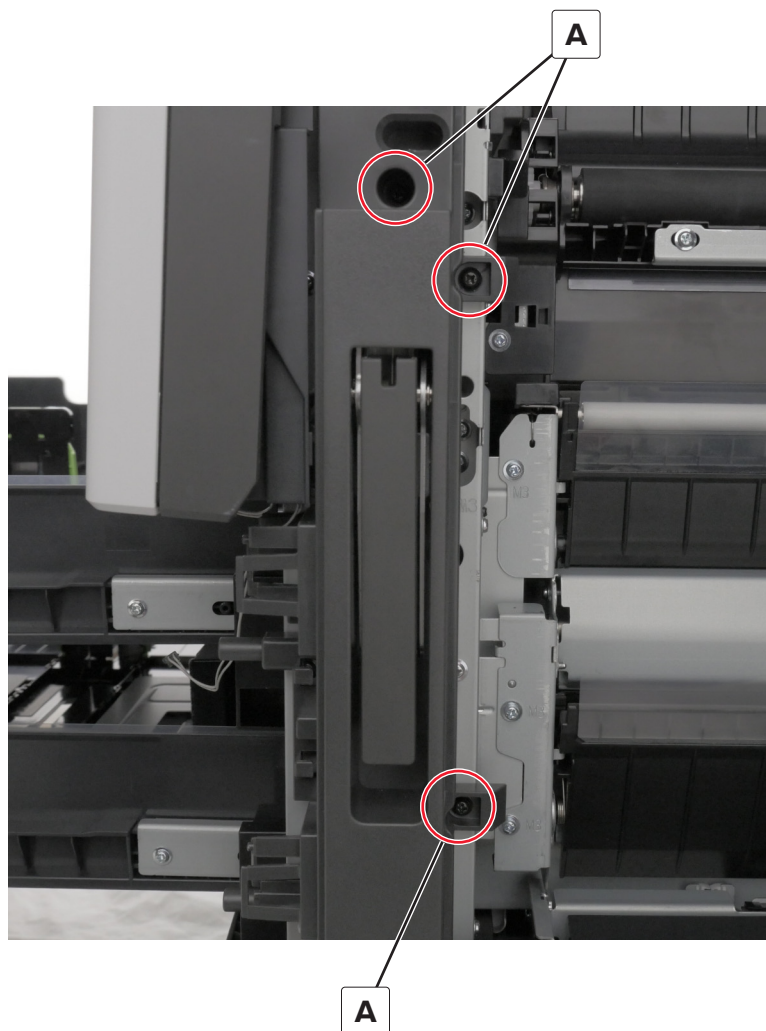
- 1 Open the trays.
- 2 Remove the two screws (A), and then remove the cover.



Tray empty LED mount removal

- 1 Remove the tray empty LED cover. See [“Tray empty LED cover removal” on page 584](#).
- 2 Remove the tray empty LEDs. See [“Tray 1 and tray 2 empty LEDs removal” on page 570](#).

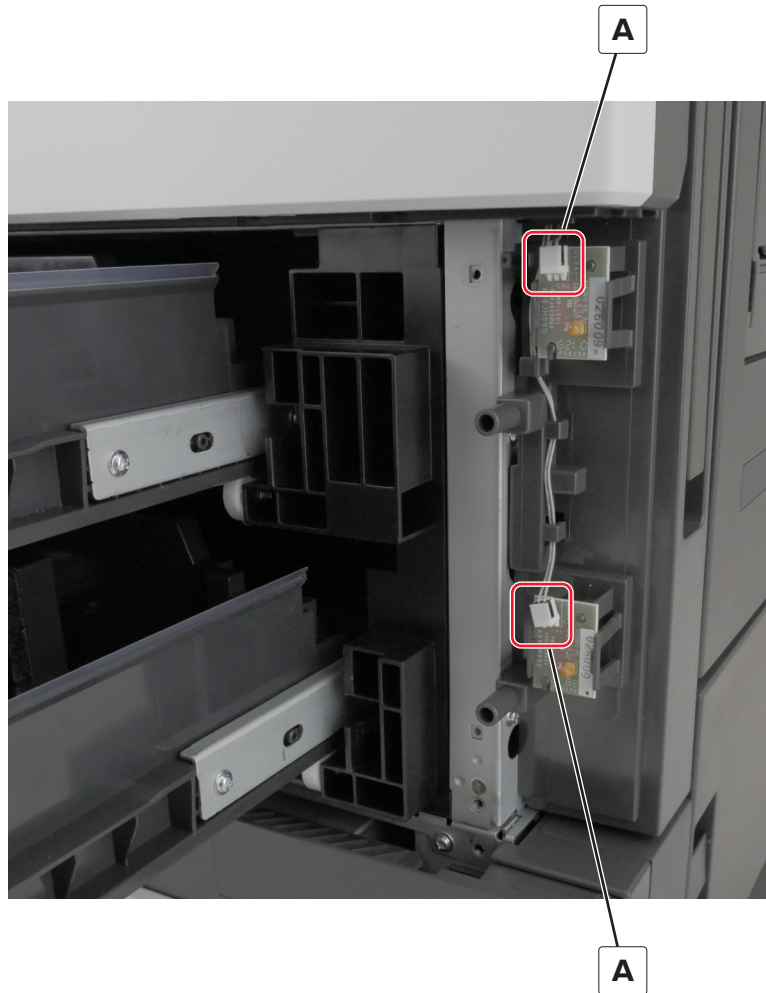
- 3** Remove the three screws (A), and then remove the cover.



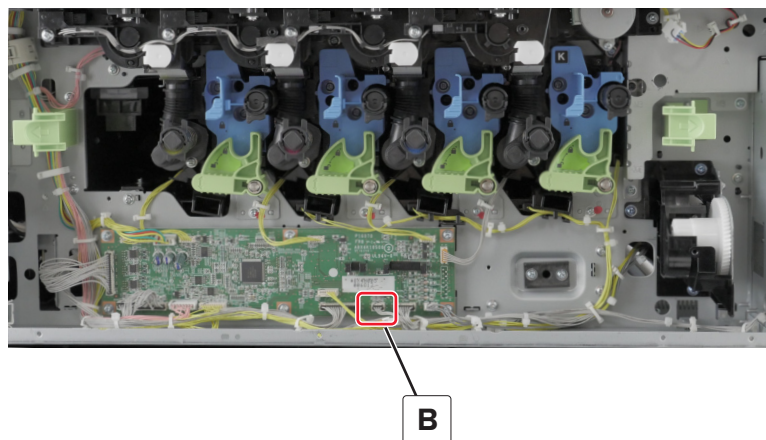
Tray empty LED cable removal

- 1** Remove the tray empty LED cover. See [“Tray empty LED cover removal” on page 584.](#)
- 2** Remove the front door. See [“Front door removal” on page 541.](#)
- 3** Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 4** Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)

5 Disconnect the two cables (A).

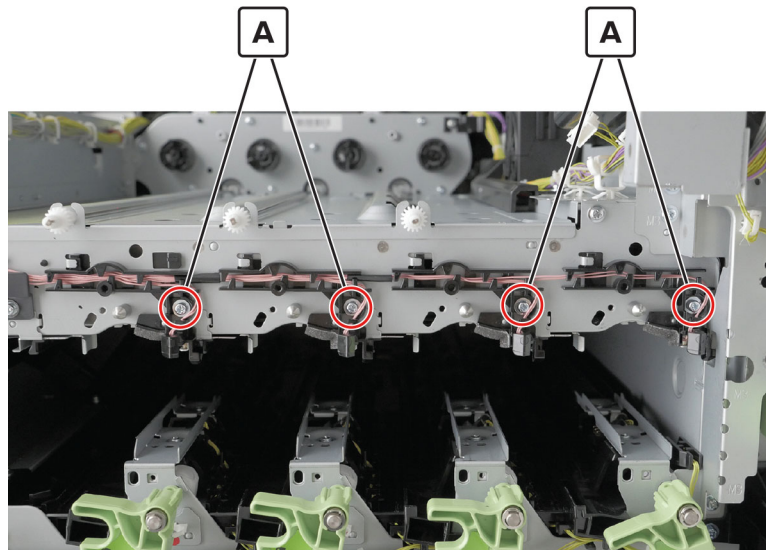


6 Disconnect the cable (B), and then remove it.

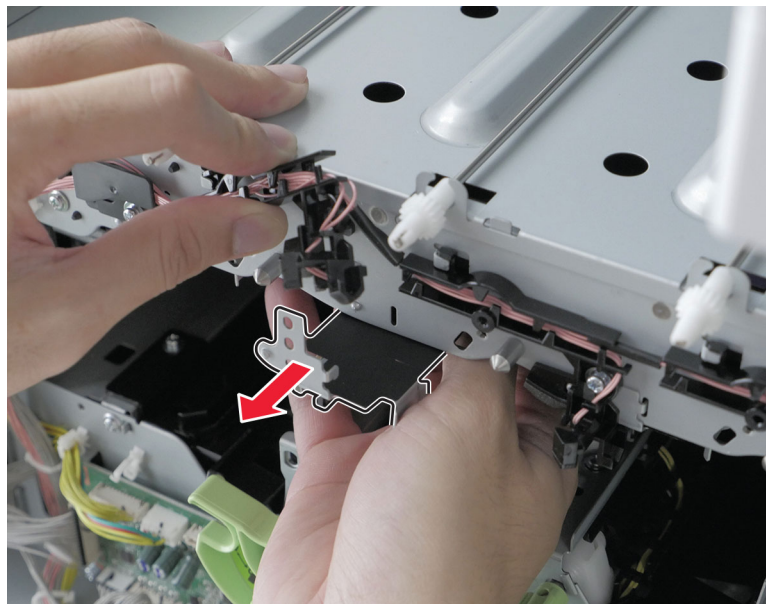


Erase LED removal

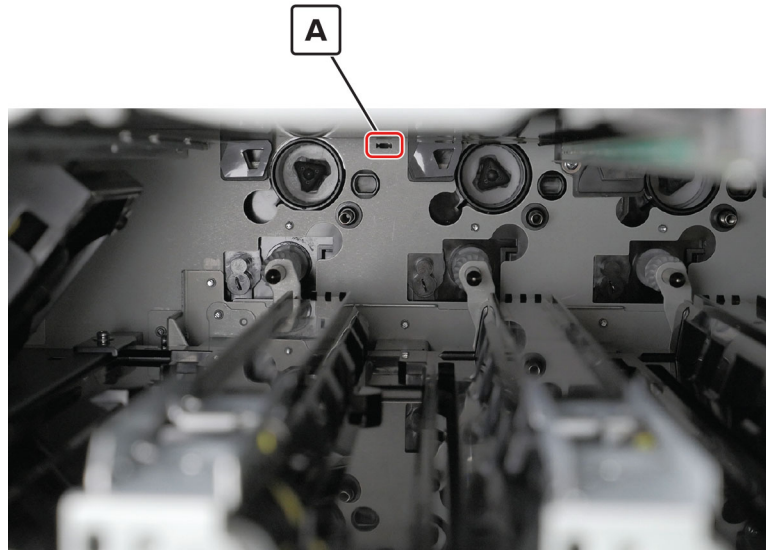
- 1 Remove the front door. See [“Front door removal” on page 541.](#)
- 2 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4 Remove the left cover. See [“Left cover removal” on page 415.](#)
- 5 Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 6 Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 7 Remove the toner agitator. See [“Toner agitator removal” on page 592.](#)
- 8 Remove the appropriate screw (A).



- 9 Move the cable guide out of the way, and then remove the LED.

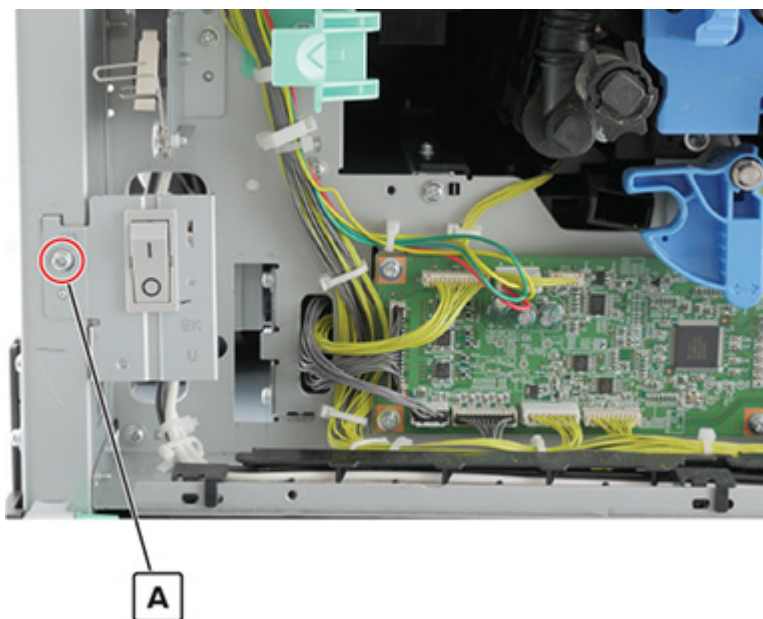


Installation note: Insert the tip of the LED bracket to its slot (A) at the back.



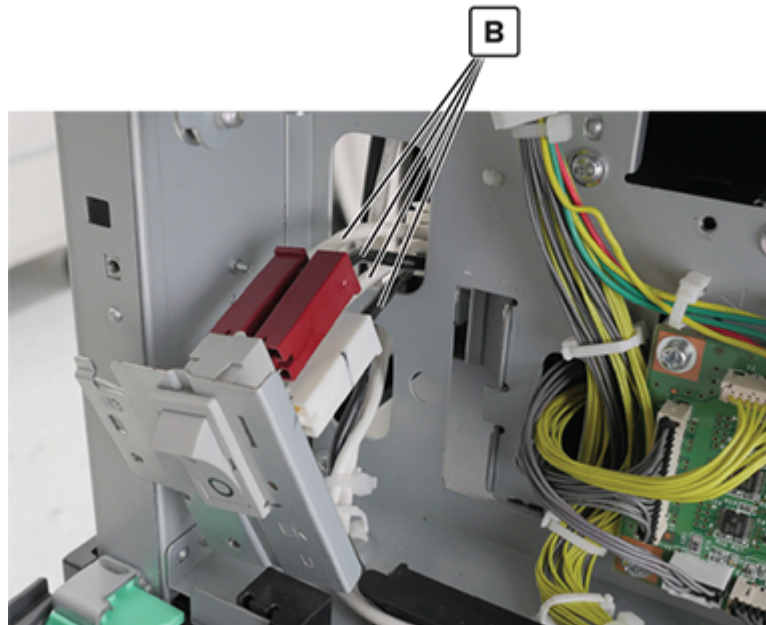
Main power switch and main power cable removal

- 1 Remove the waste toner bottle.
- 2 Remove the front door. See [“Front door removal” on page 541.](#)
- 3 Remove the front cover. See [“Waste toner door mount removal” on page 572.](#)
- 4 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 5 Remove the left cover. See [“Left cover removal” on page 415.](#)
- 6 Remove the screw (A).

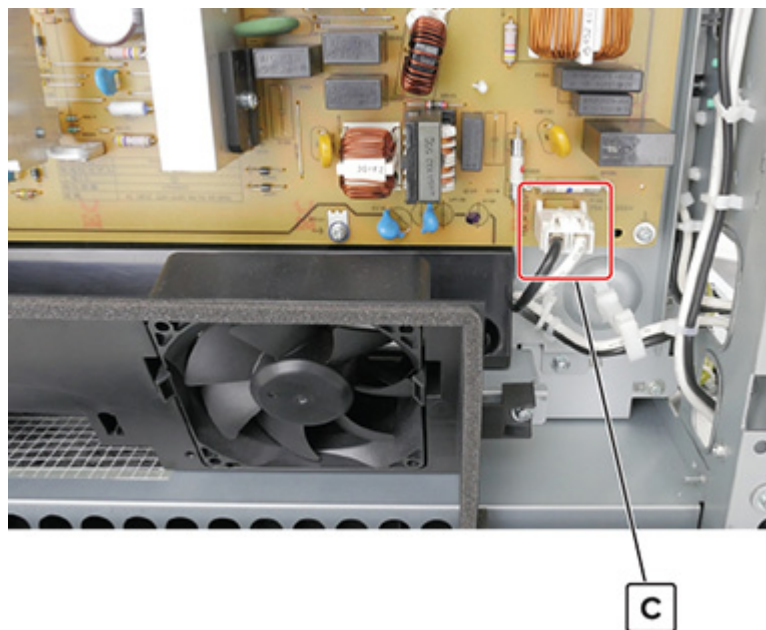


- 7 Disconnect the four cables (B).

Installation warning: Take note of the proper connections of the white and black cables, including the positions of the white and red connectors.



- 8** On the left side of the printer, disconnect the cable (C), and then remove the cable.



- 9** Remove the cable from the switch.

Fuser power cable removal

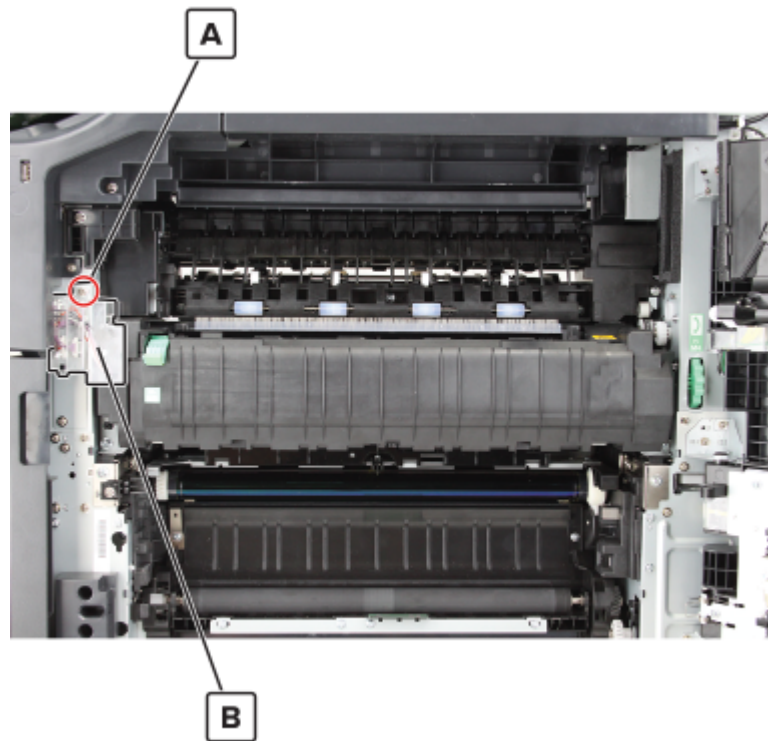
- 1** Remove the waste toner bottle.
- 2** Remove the front door. See [“Front door removal” on page 541.](#)
- 3** Remove the front cover. See [“Waste toner door mount removal” on page 572.](#)

- 4 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 5 Remove the left cover. See [“Left cover removal” on page 415.](#)
- 6 Remove the toner agitator. See [“Toner agitator removal” on page 592.](#)
- 7 Open the right door.

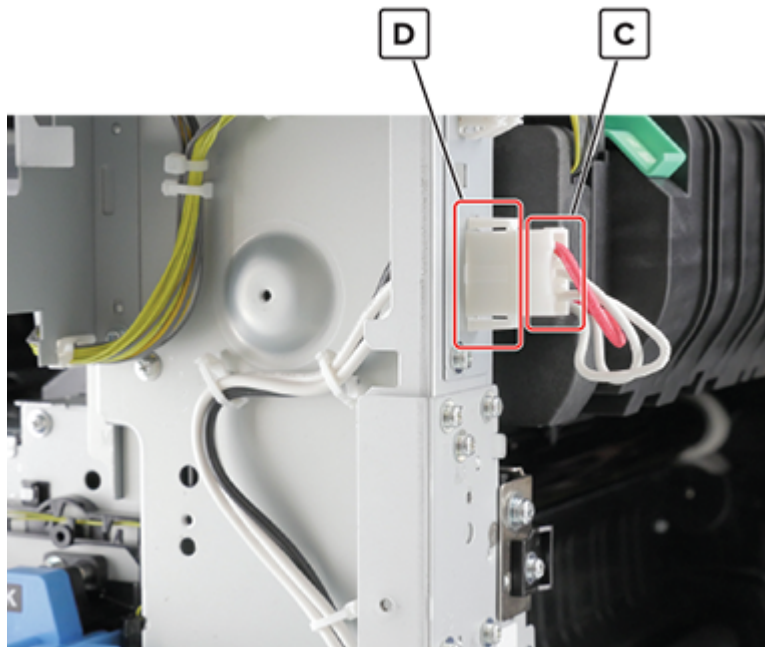


CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

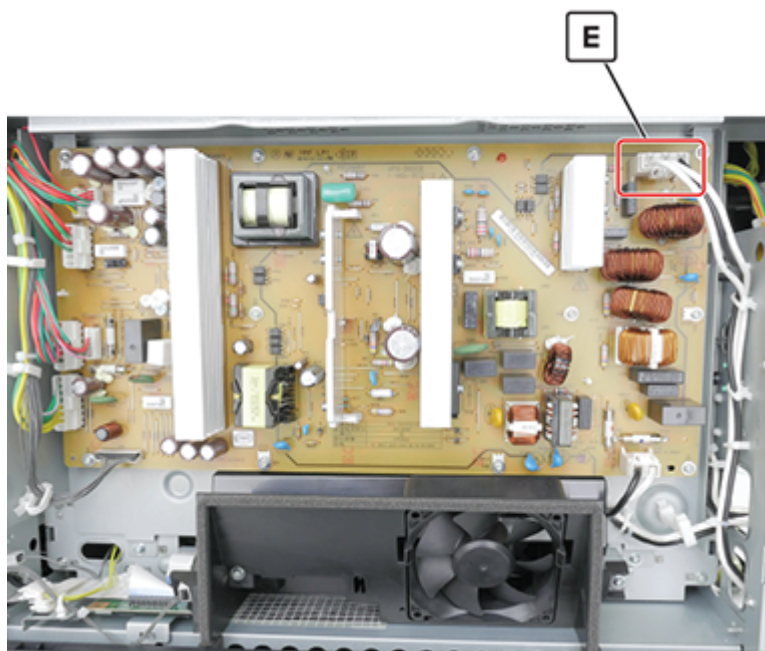
- 8 Remove the screw (A), and then remove the fuser cable cover (B).



- 9 Disconnect the cable (C), and then remove the connector (D) from the frame.



- 10 Disconnect the cable (E), and then remove the cable from the cable guides.

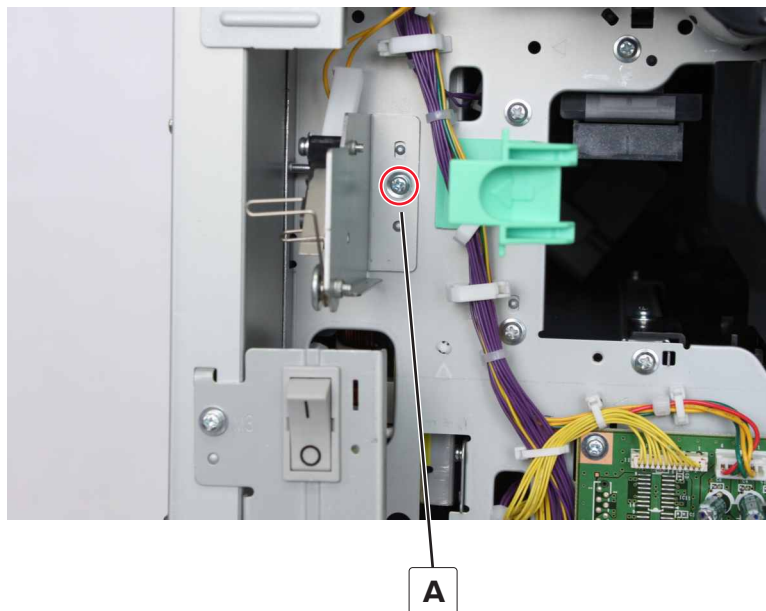


Installation note: Pay attention to the cable routing.

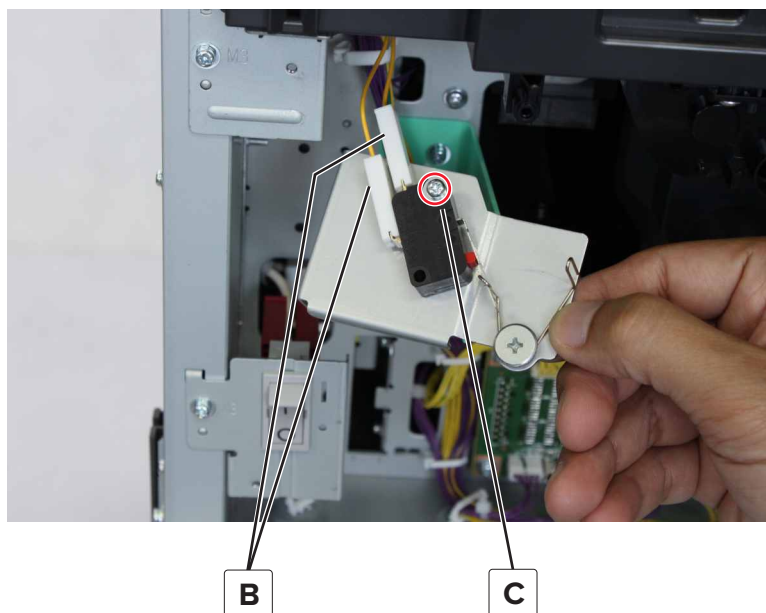
Door switch removal

- 1 Remove the front door. See [“Front door removal” on page 541](#).
- 2 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572](#).

- 3** Remove the screw (A), and then move away the bracket.



- 4** Disconnect the two cables (B), and then remove the screw (C).

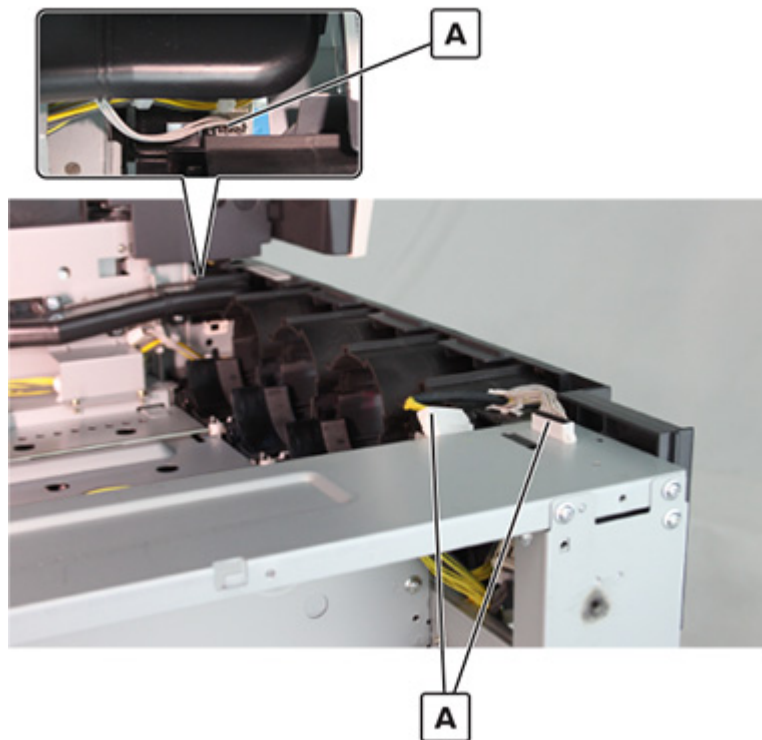


- 5** Release the retainer, and then remove the switch.

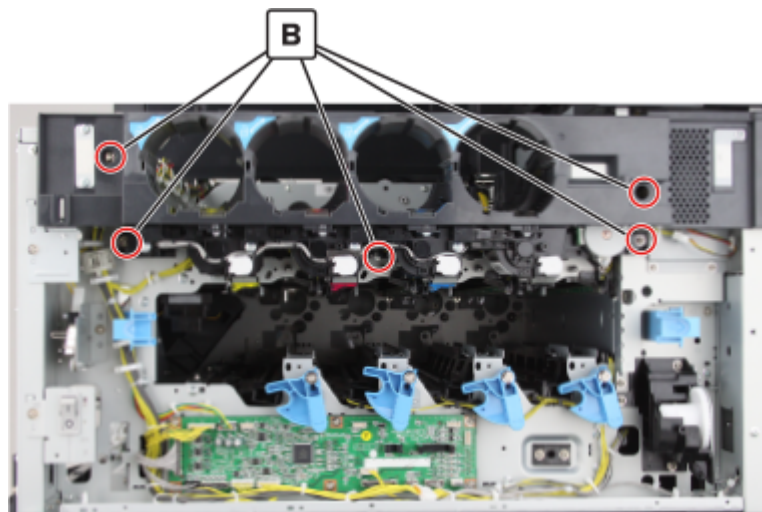
Toner agitator removal

- 1** Remove the front door. See [“Front door removal” on page 541.](#)
- 2** Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 3** Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4** Remove the left cover. See [“Left cover removal” on page 415.](#)

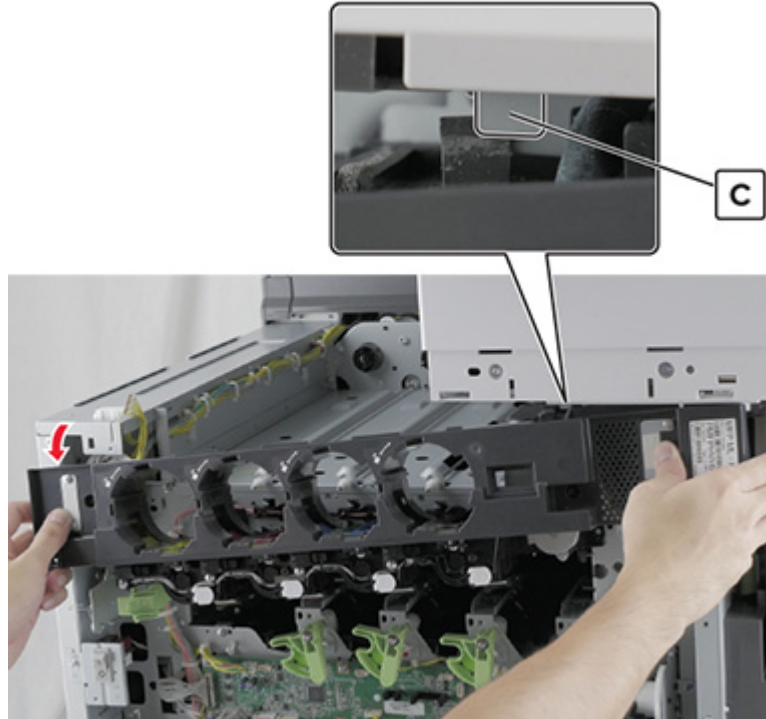
- 5 Remove the standard bin. See [“Standard bin removal” on page 677](#).
- 6 Remove the standard bin base. See [“Standard bin base removal” on page 677](#).
- 7 Disconnect the three cables (A).



- 8 Remove the five screws (B).



- 9 Slightly twist the agitator while pulling it to clear the tab (C).

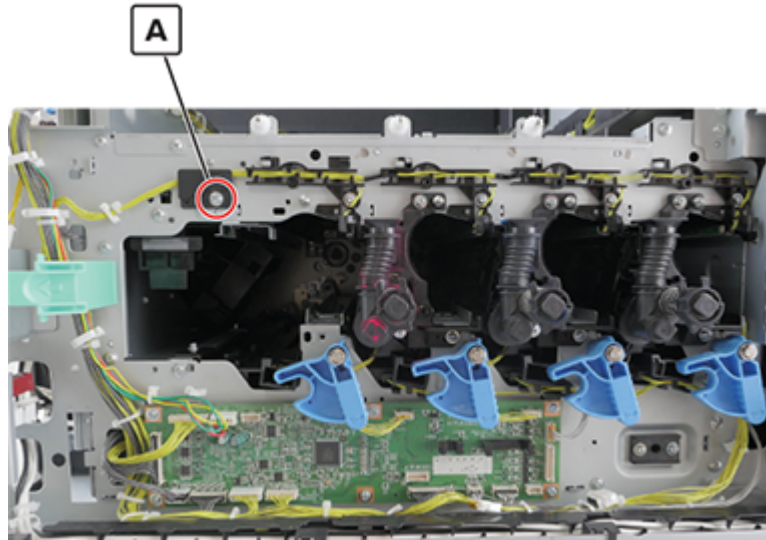


- 10 Remove the toner agitator.

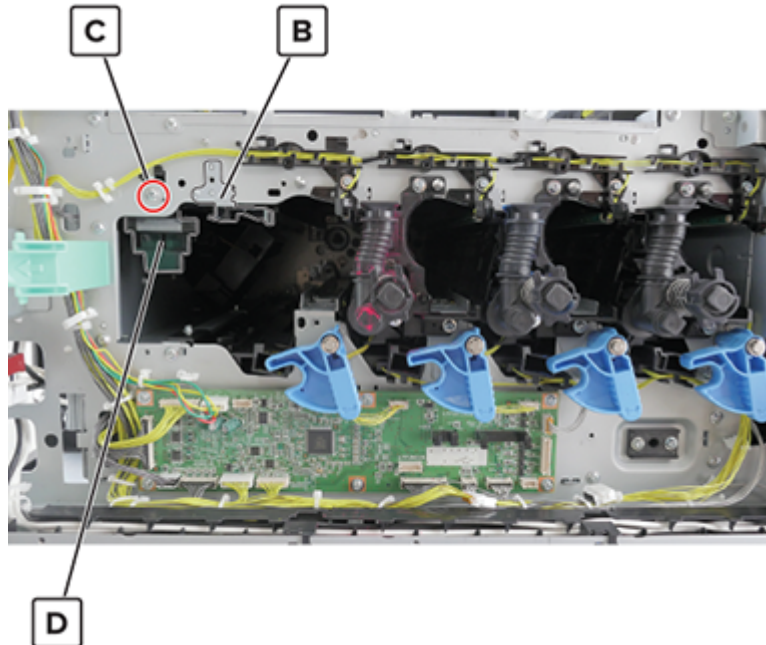
Transfer belt fan and duct removal

- 1 Remove all the photoconductor units.
- 2 Remove the front door. See [“Front door removal” on page 541.](#)
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 5 Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 6 Remove the toner agitator. See [“Toner agitator removal” on page 592.](#)
- 7 Remove the Y developer. See [“Developer unit \(Y\) removal” on page 573.](#)

- 8 Remove the screw (A).

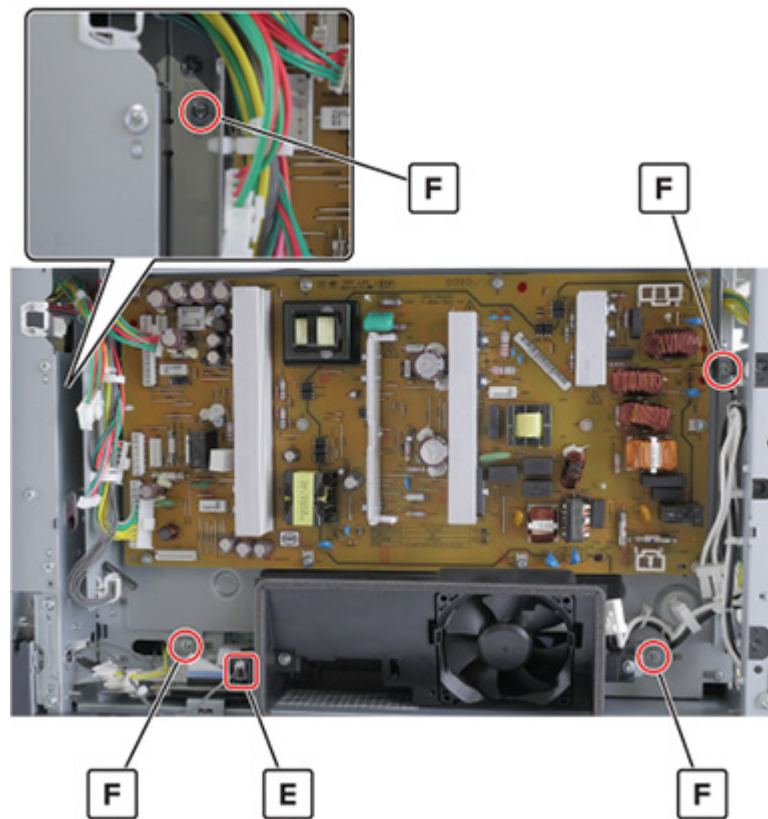


- 9 Remove the rail (B), remove the screw (C), and then remove the duct (D).



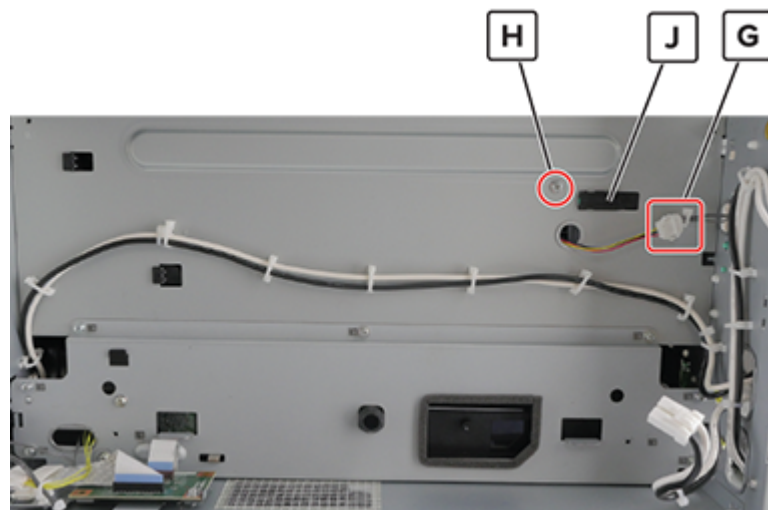
- 10 Remove the left cover. See [“Left cover removal” on page 415](#).
- 11 Remove the main power supply shield. See [“Main power supply shield removal” on page 419](#).
- 12 Disconnect all cables from the main power supply, disconnect the fan cable (E), and then remove the four screws (F).

CAUTION—SHOCK HAZARD: The main power supply may have residual voltage present. To avoid the risk of electrical shock, do not touch its circuit components. Only handle it by its housing.

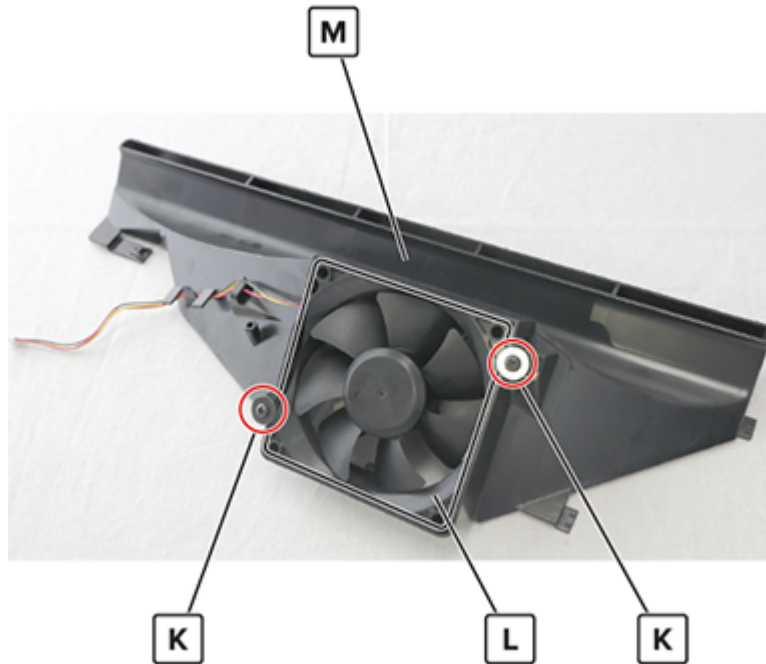


13 Remove the main power supply.

14 Disconnect the cable (G), remove the screw (H), and then detach the latch (J) to remove the fan duct.



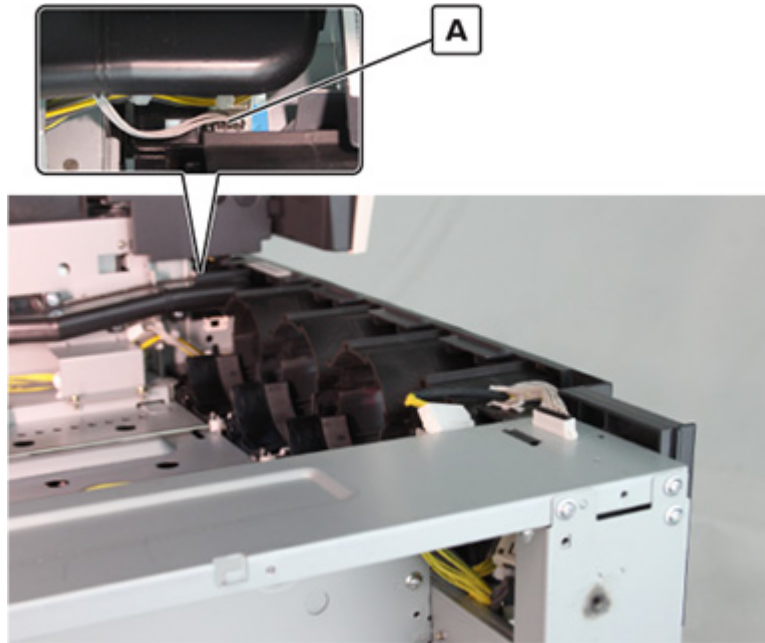
- 15** Remove the two screws (K), and then remove the fan (L) from the fan duct (M).



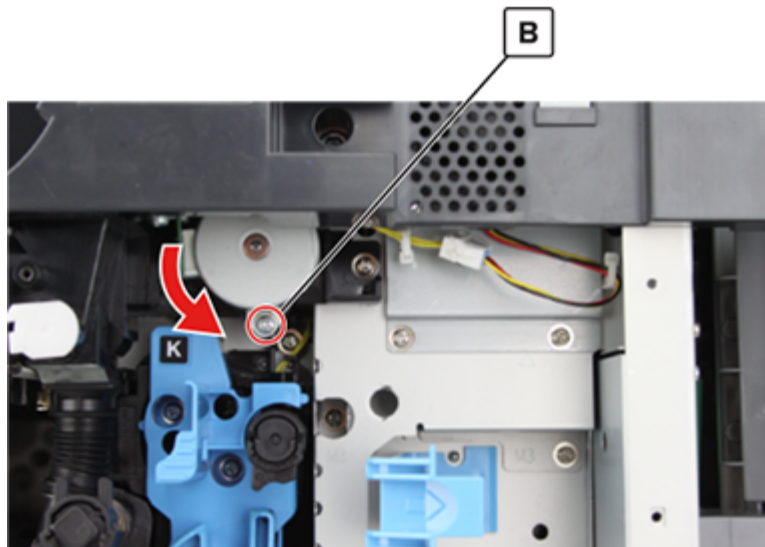
Motor (K toner supply) removal

- 1** Remove the front door. See [“Front door removal” on page 541.](#)
- 2** Remove the left cover. See [“Left cover removal” on page 415.](#)
- 3** Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 4** Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 5** Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 6** Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)

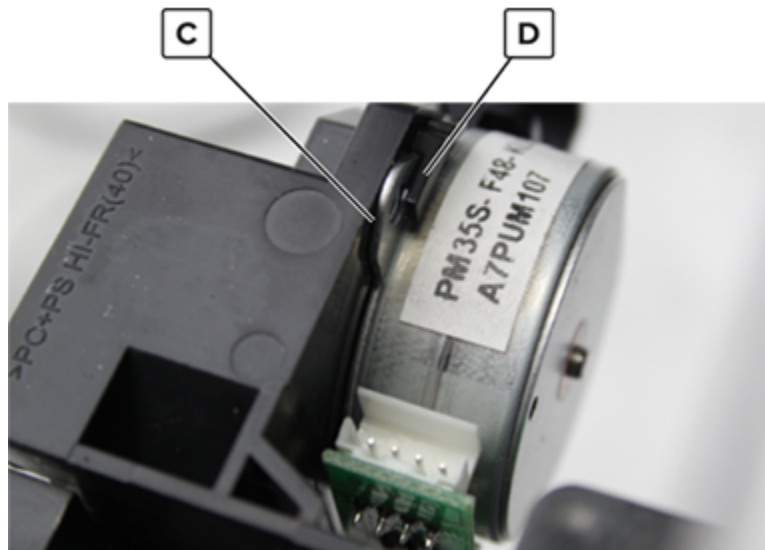
7 Disconnect the cable (A).



8 Remove the screw (B), and then rotate the motor counterclockwise to remove.

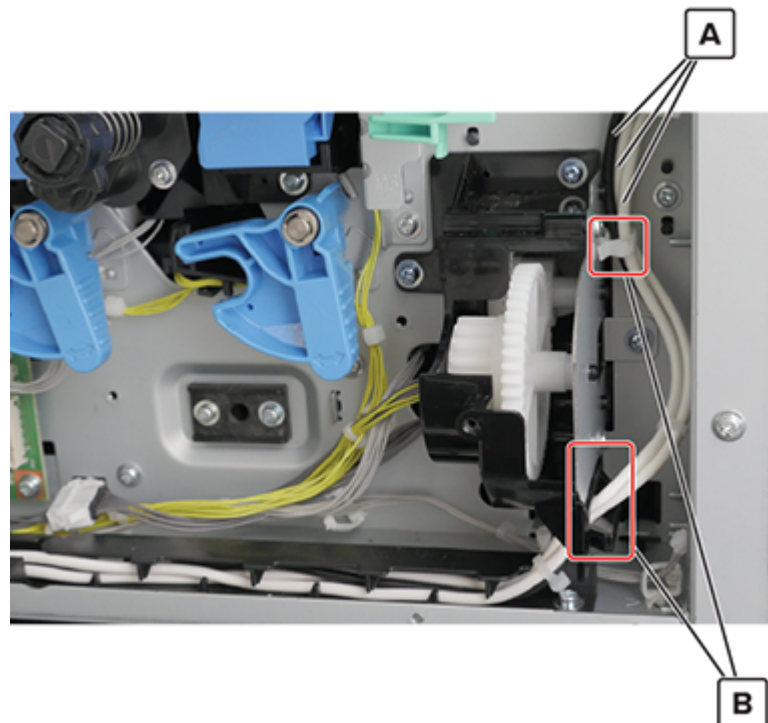


Installation note: Make sure that the tab (C) on the motor is properly aligned to the tab (D) on the agitator assembly.

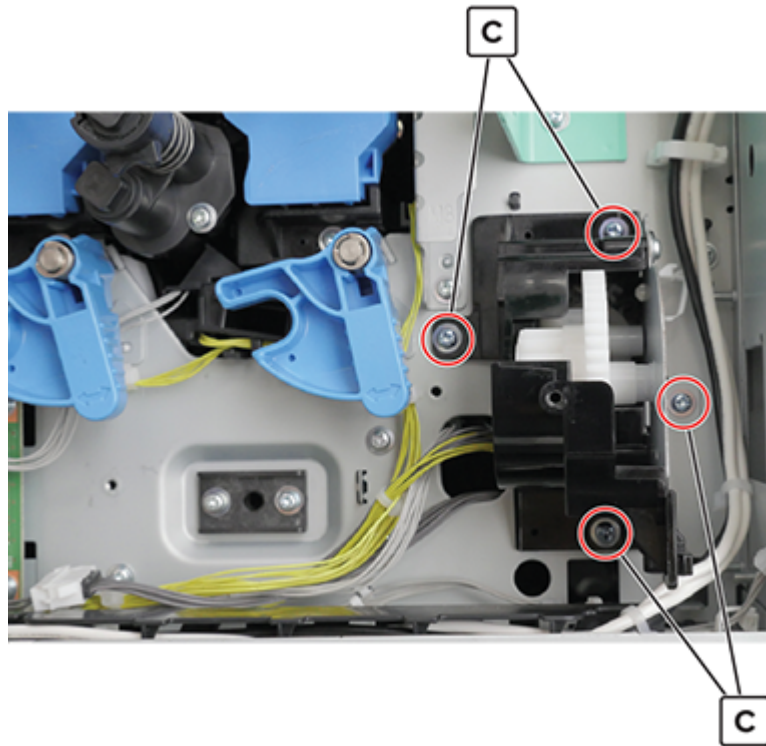


Waste toner drive removal

- 1 Remove the waste toner bottle.
- 2 Remove the front door. See [“Front door removal” on page 541.](#)
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 5 Remove the three cables (A) from the two cable guides (B).



- 6 Remove the four screws (C).

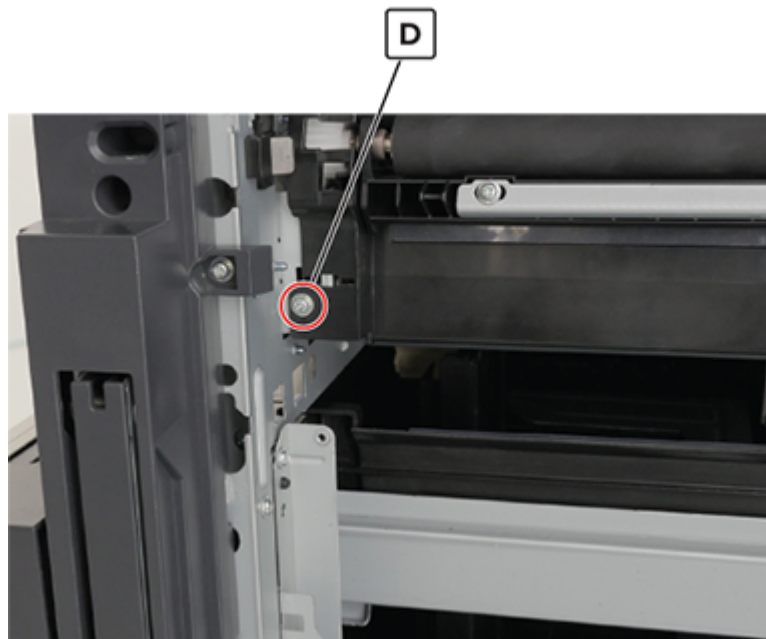


- 7 Open the right door.



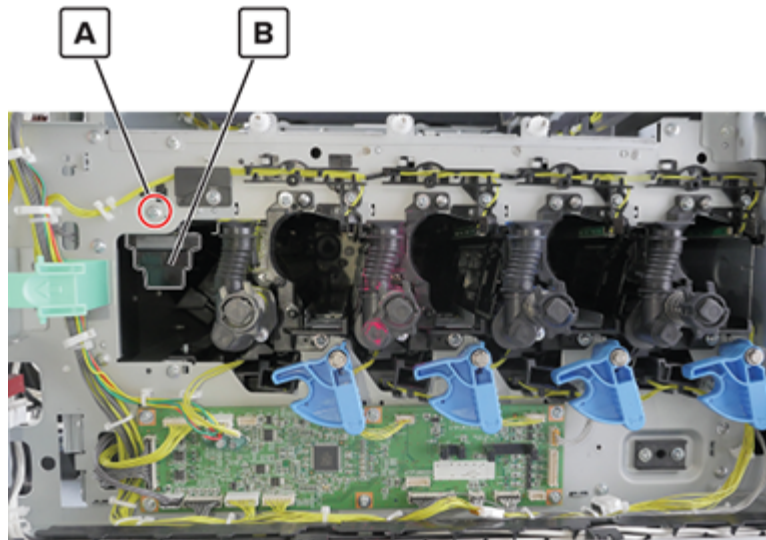
CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

- 8 Remove the screw (D), and then remove the waste toner drive.



Waste toner duct removal

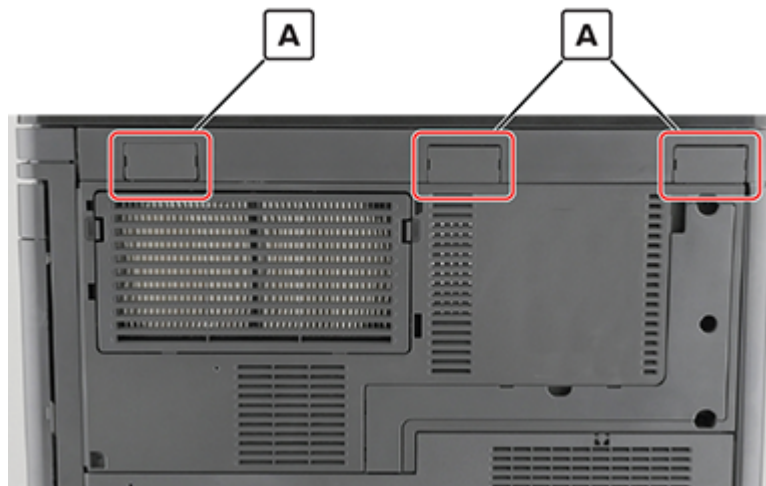
- 1 Remove all the photoconductor units.
- 2 Remove the front door. See [“Front door removal” on page 541.](#)
- 3 Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4 Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 5 Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 6 Remove the toner agitator. See [“Toner agitator removal” on page 592.](#)
- 7 Remove the screw (A), and then remove the waste toner duct (B).



Rear side removals

Latch covers removal

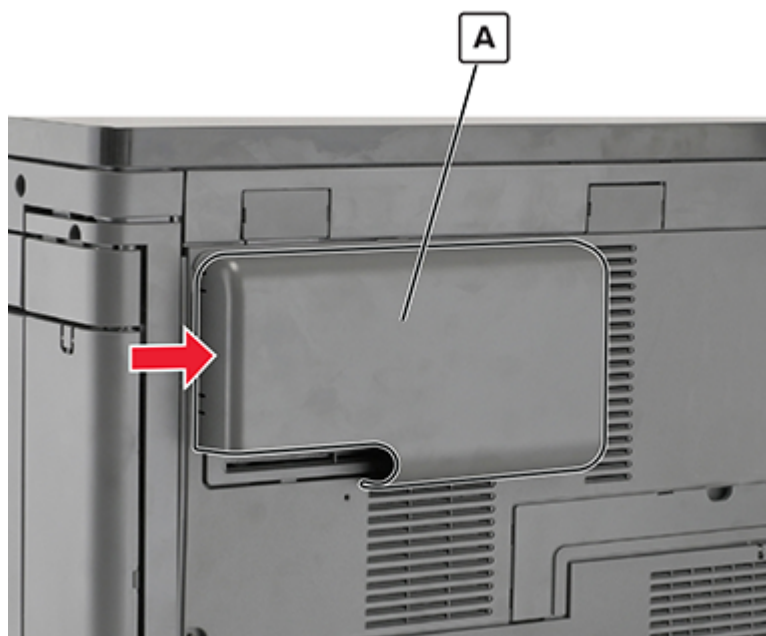
- 1 Detach the three latch covers (A).



- 2 Remove the covers.

Air deflector hood removal

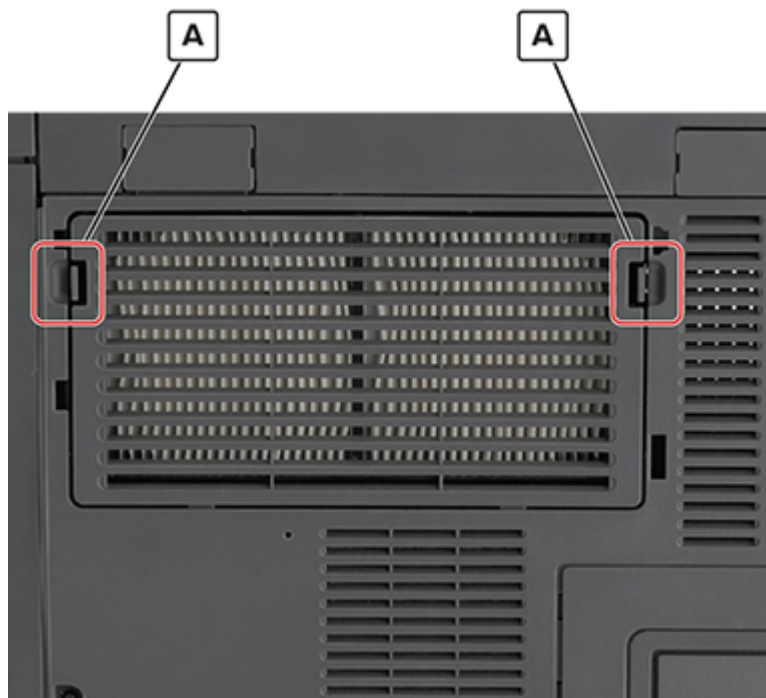
- 1 Press the latch on the left side of the air deflector hood (A).



- 2 Remove the hood.

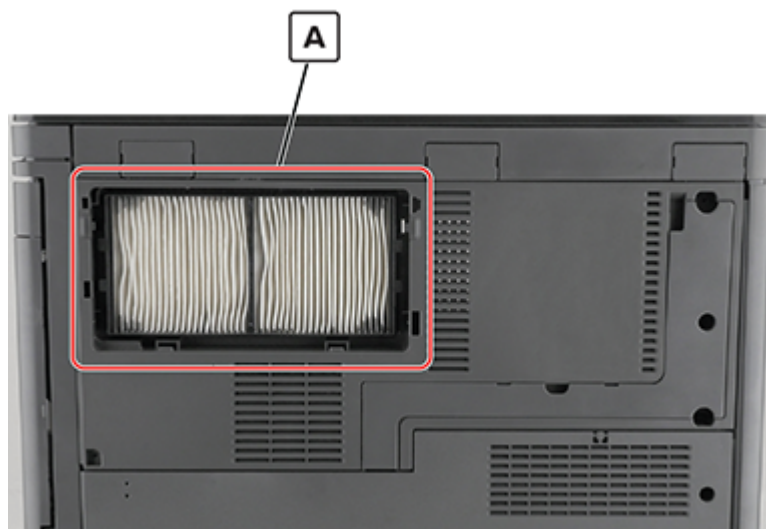
Fuser exhaust grill removal

- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602](#).
- 2 Release the two latches (A), and then remove the exhaust grill.



Fuser exhaust filter removal

- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602](#).
- 2 Remove the fuser exhaust grill. See [“Fuser exhaust grill removal” on page 603](#).
- 3 Remove the exhaust filter (A).



Scanner interface cable cover removal

- 1** Remove the screw (A).

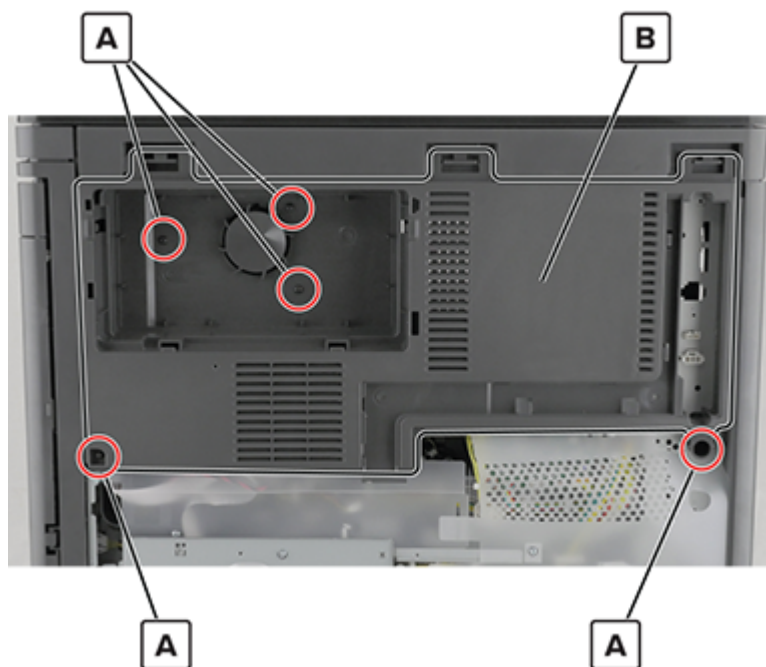


- 2** Remove the cover.

Upper rear cover removal

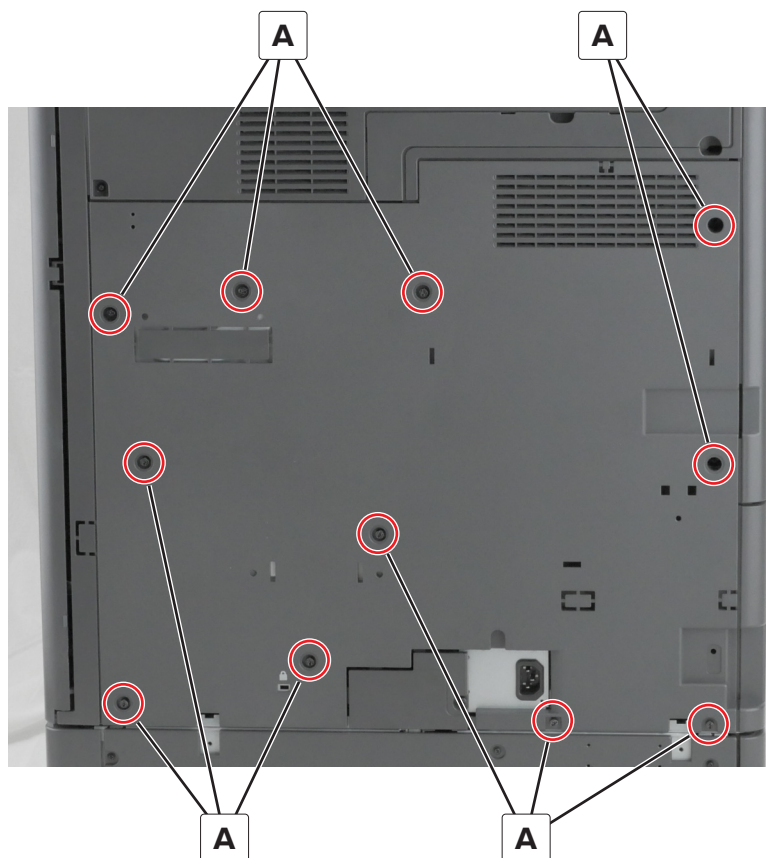
- 1 Remove the latch covers. See [“Latch covers removal” on page 602.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Disconnect the scanner cables.
- 4 Remove the fuser exhaust grill. See [“Fuser exhaust grill removal” on page 603.](#)
- 5 Remove the fuser exhaust filter. See [“Fuser exhaust filter removal” on page 603.](#)
- 6 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)

7 Remove the five screws (A), and then remove the cover (B).



Lower rear cover removal

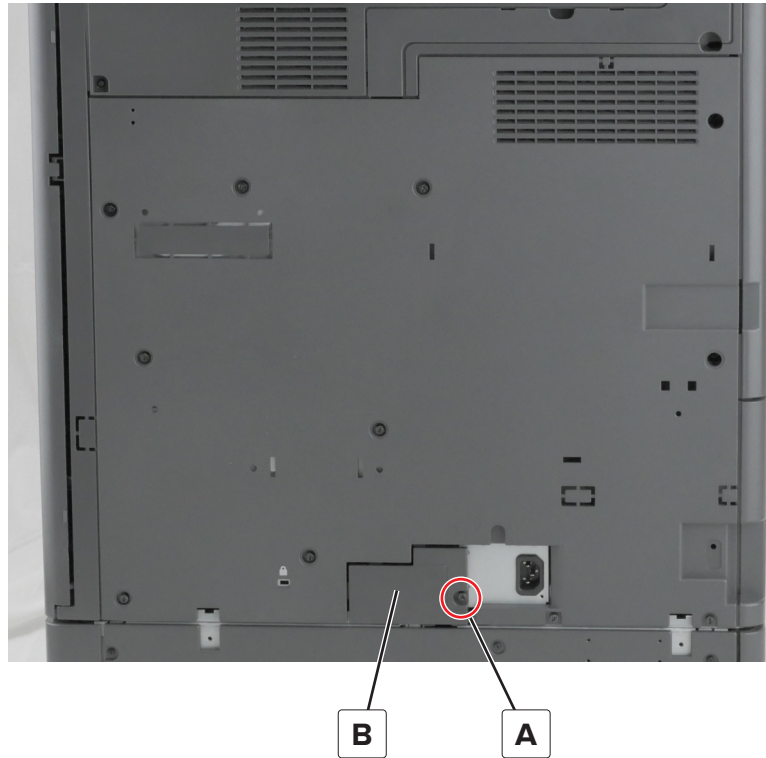
1 Remove the 11 screws (A).



2 Remove the cover.

Option interface cable cover removal

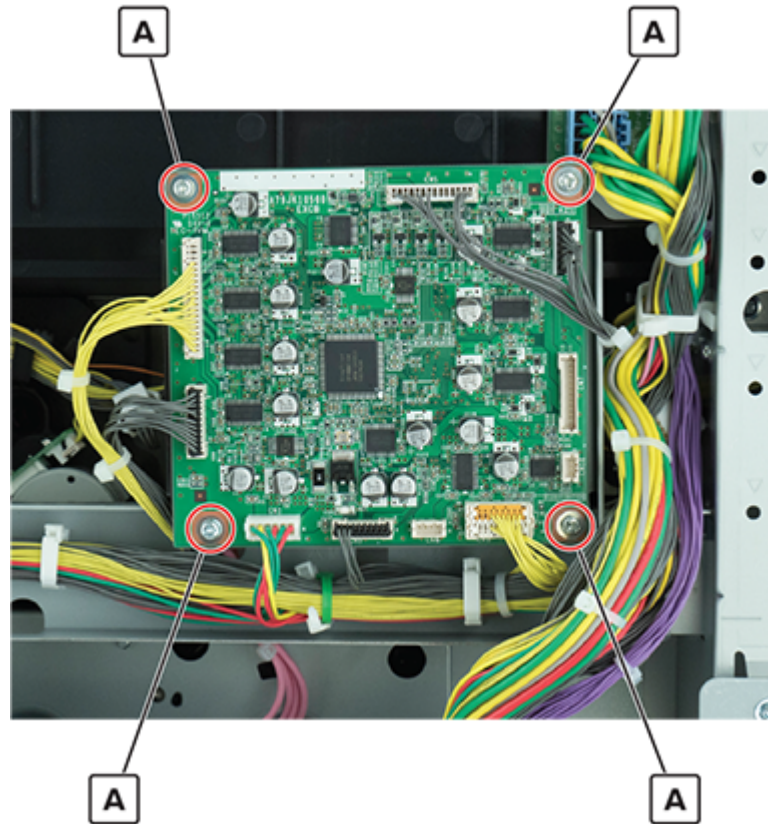
- 1 Remove the screw (A).
- 2 Remove the cover (B).



Expansion controller board removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 4 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).

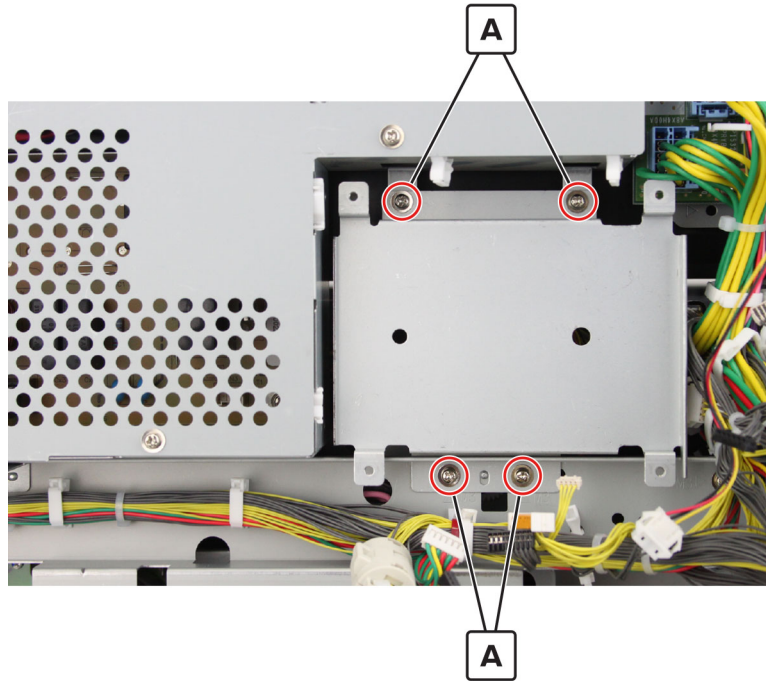
- 5 Disconnect all the cables, remove the four screws (A), and then remove the board.



Expansion controller board bracket removal

- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 4 Remove the scanner left cover. See [“Scanner left cover removal” on page 839](#).
- 5 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 6 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).
- 7 Remove the expansion controller board. See [“Expansion controller board removal” on page 607](#).

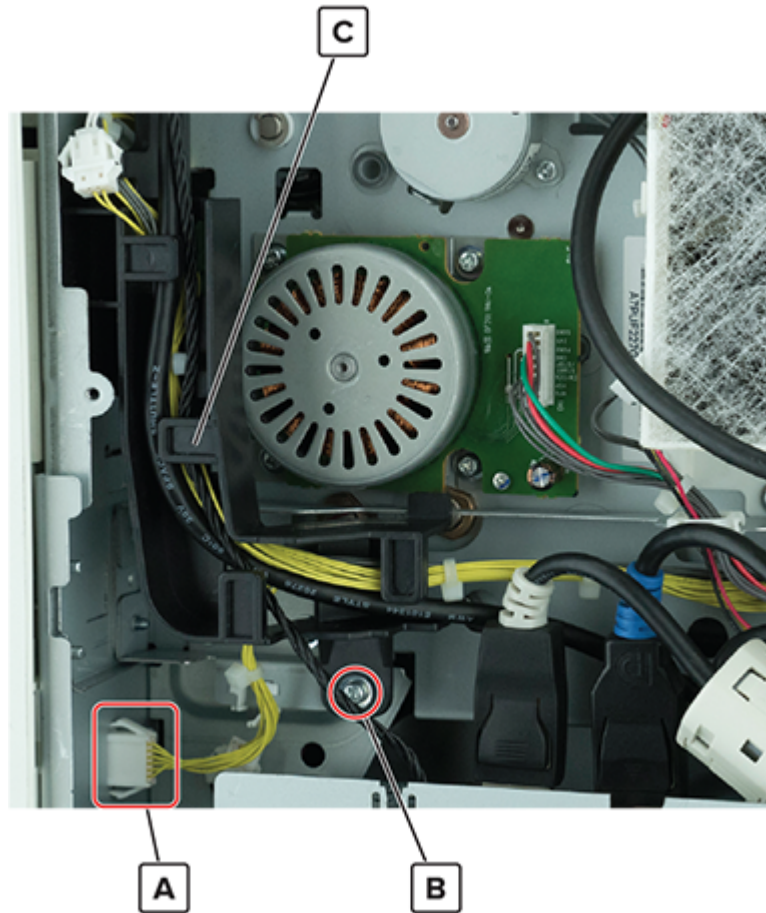
- 8 Remove the four screws (A), and then remove the bracket.



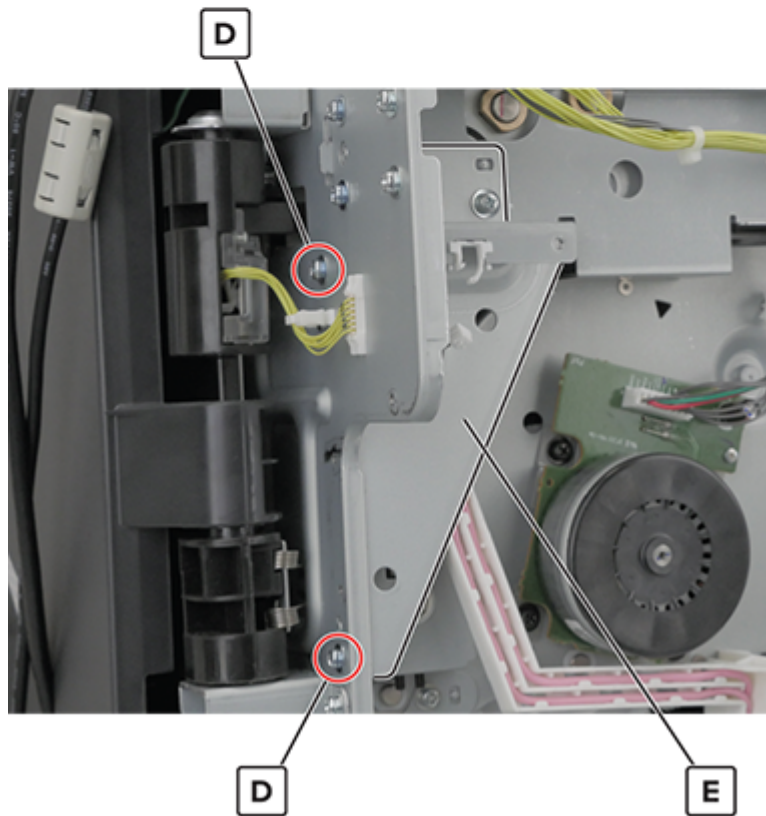
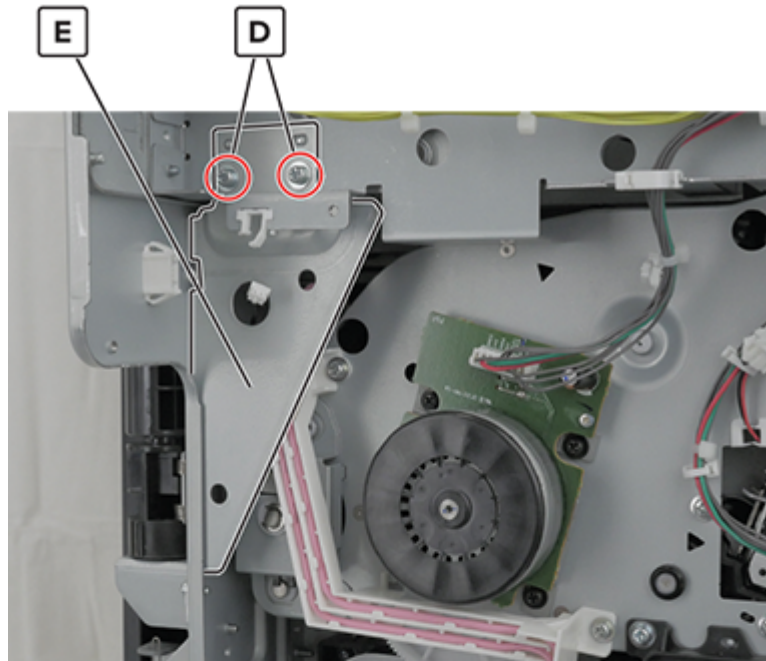
Center guide bracket removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 2 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 3 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 4 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 5 Remove the EXCB. See [“Expansion controller board removal” on page 607.](#)
- 6 Open the controller board tray.

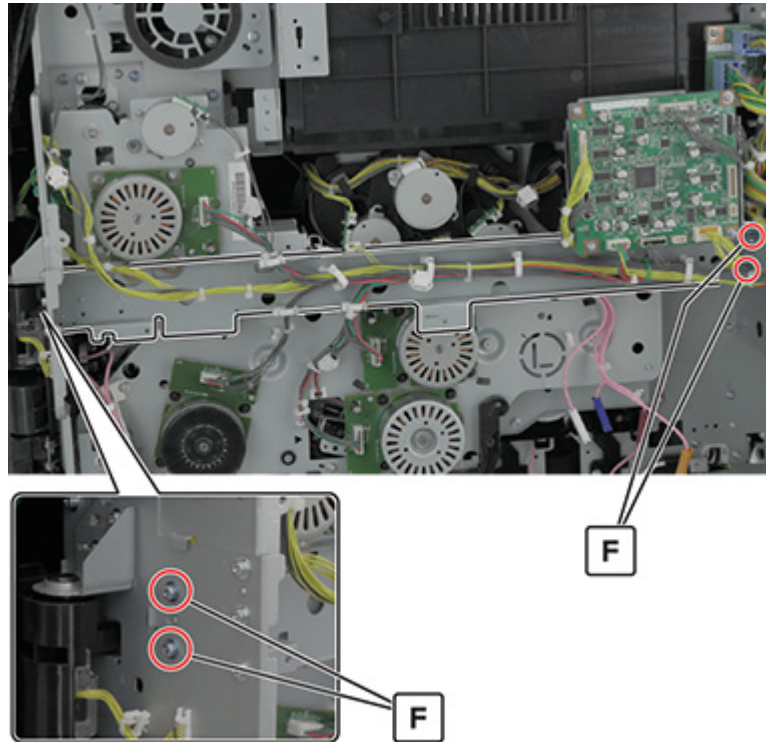
- 7 Disconnect the cable (A), remove the screw (B), and then remove the cable guide (C).



- 8 Remove the four screws (D), and then remove the bracket (E).



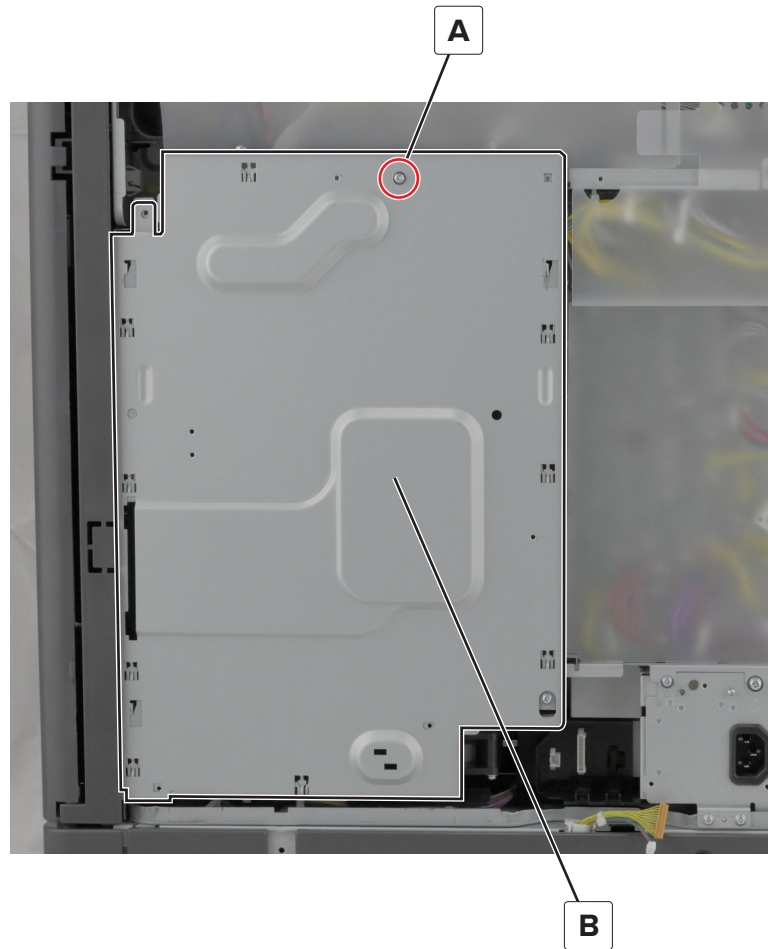
- 9** Remove the four screws (F).



- 10** Remove the cables from the guides on the bracket, and then remove the bracket.

Controller board shield removal

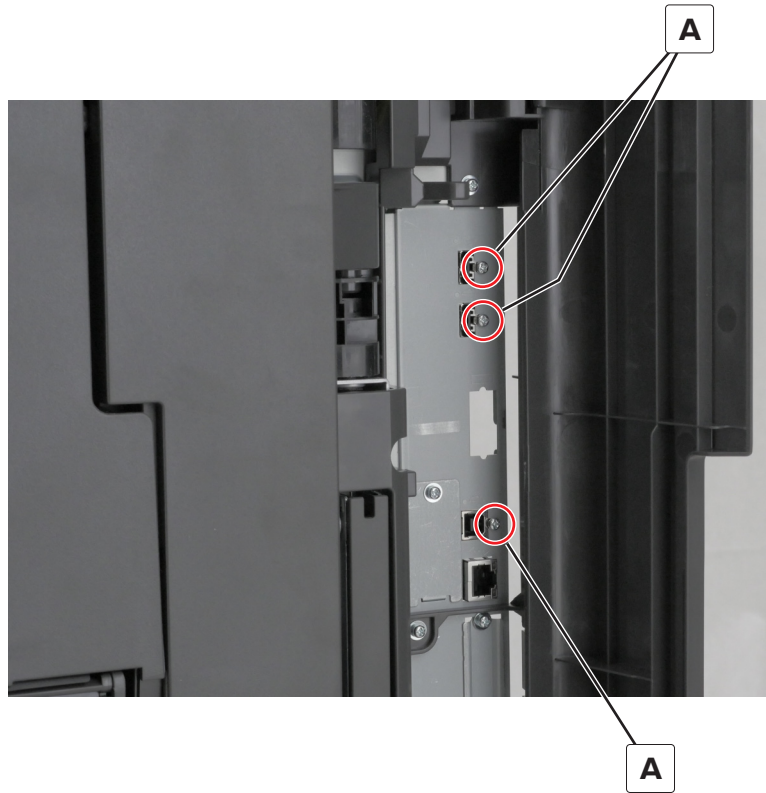
- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the screw (A), and then remove the shield (B).



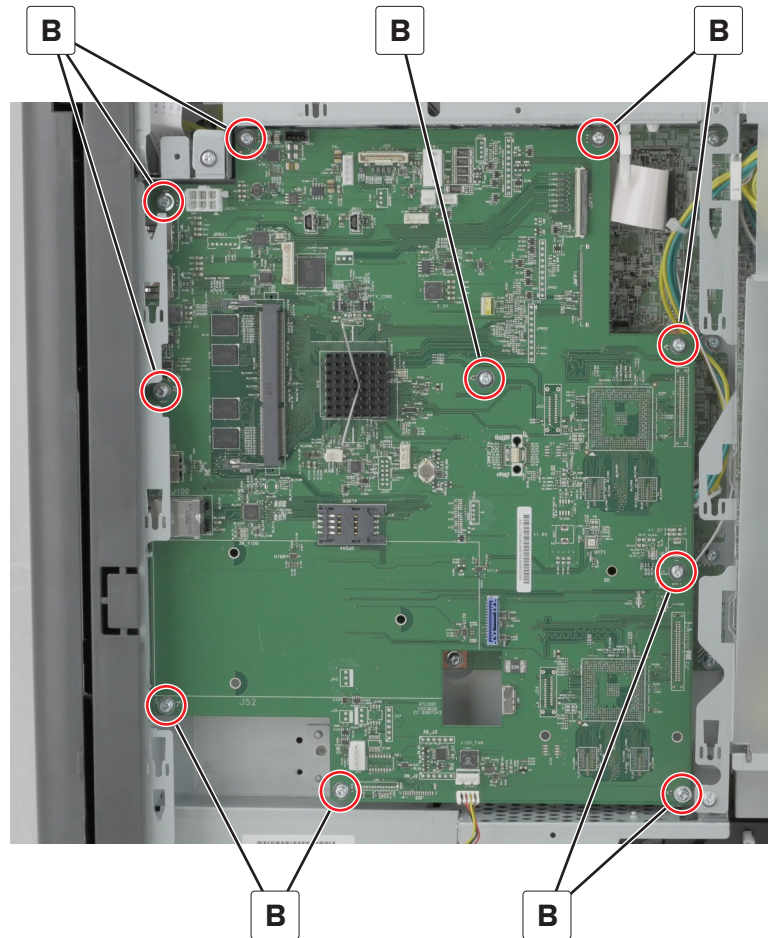
Controller board removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the controller board shield. See [“Controller board shield removal” on page 613](#).
- 3 Disconnect all the cables, and then remove the hard disk.

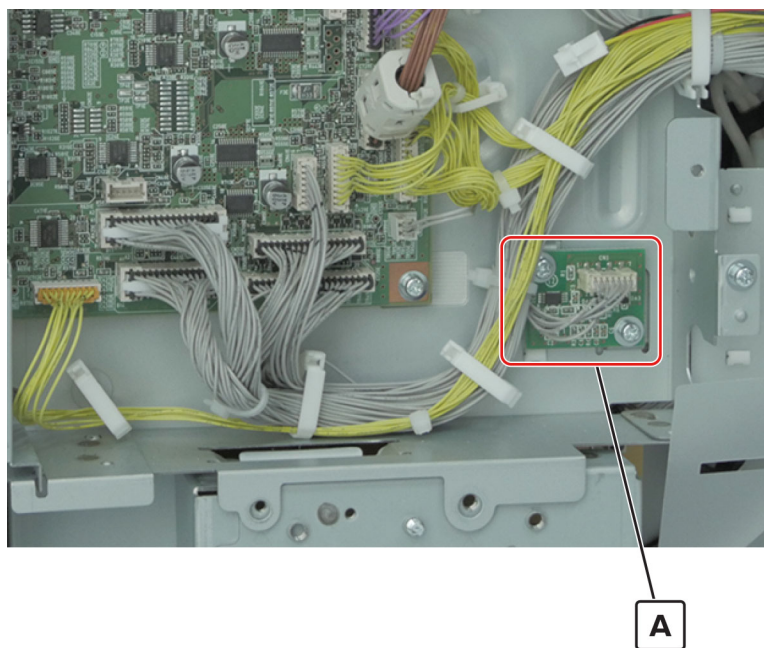
- 4 Open the port access door, and then remove the three screws (A).



5 Remove the 10 screws (B), and then remove the board.



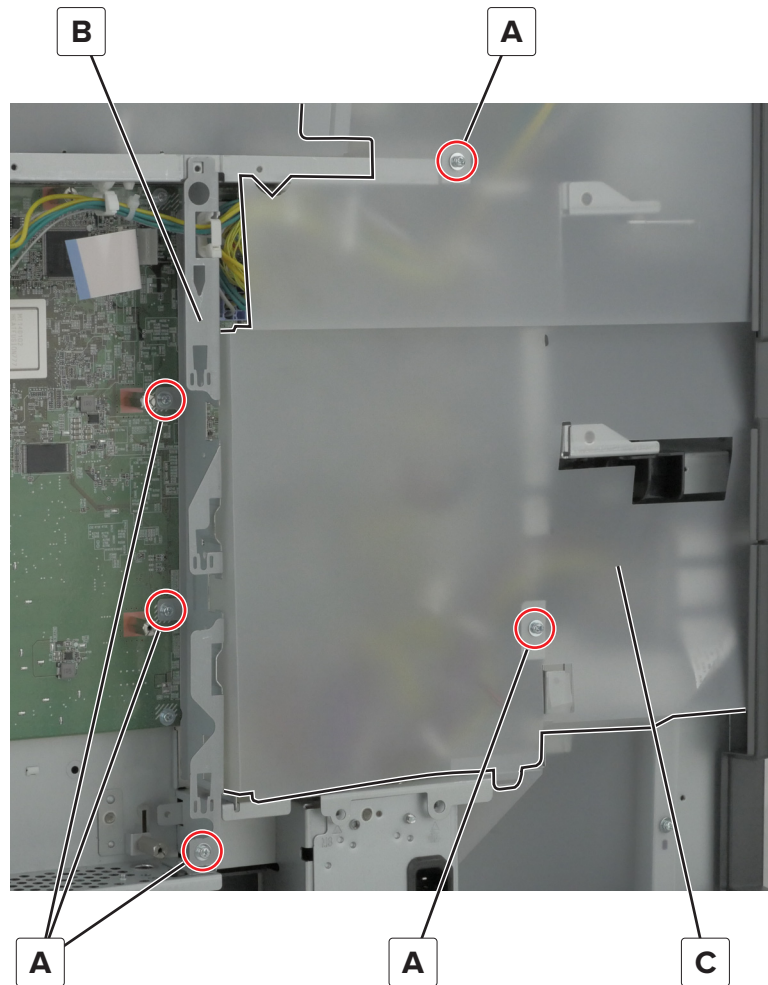
Installation warning: Do not replace the controller board and EEPROM board (A) at the same time.



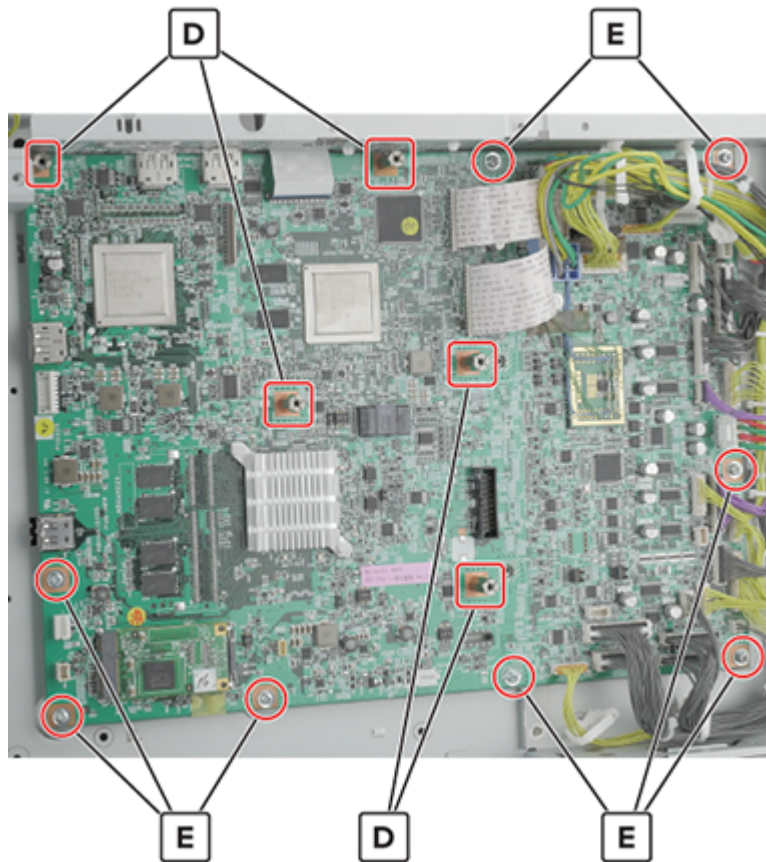
Parts removal

Engine board removal

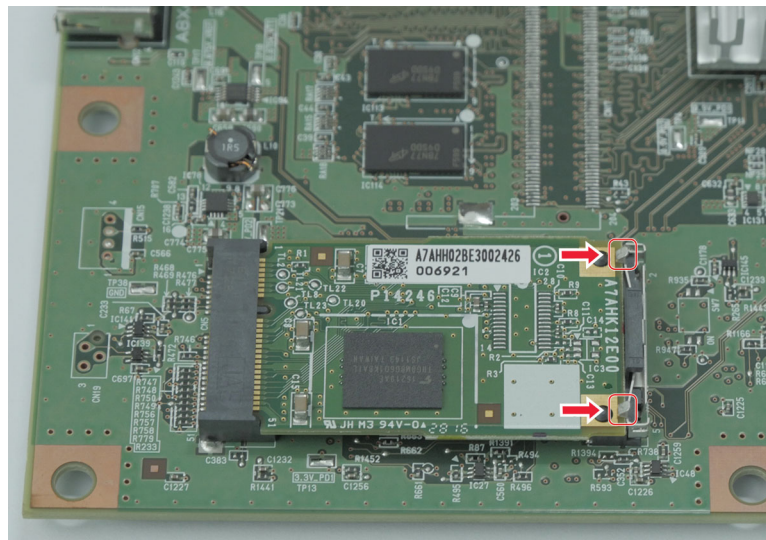
- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 3 Remove the port access door. See [“Port access door removal” on page 432](#).
- 4 Remove the port mount. See [“Port mount removal” on page 433](#).
- 5 Remove the controller board shield. See [“Controller board shield removal” on page 613](#).
- 6 Remove controller board. See [“Controller board removal” on page 613](#).
- 7 Remove the 5 screws (A), remove the bracket (B), and then remove the plastic shield (C).



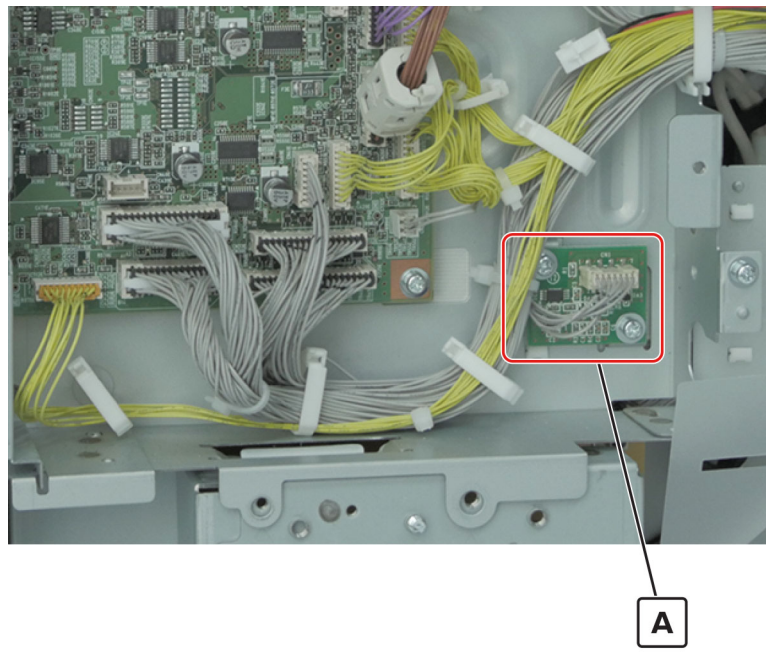
- 8 Disconnect all the cables, remove the five standoffs (D), remove the eight screws (E), and then remove the board.



- 9 Release the latches, and then remove the eMMC card from the engine board.



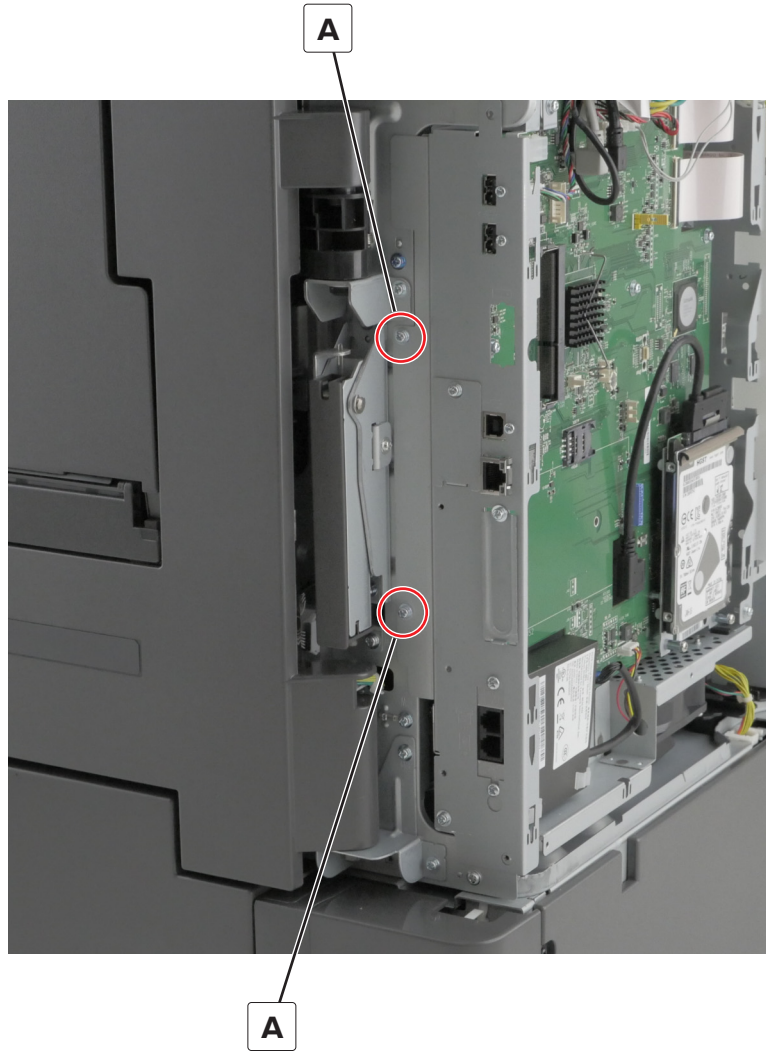
Installation warning: To avoid data corruption, do not remove and install the eMMC and EEPROM (A) from one engine board to another as a method of troubleshooting.



Controller board frame removal

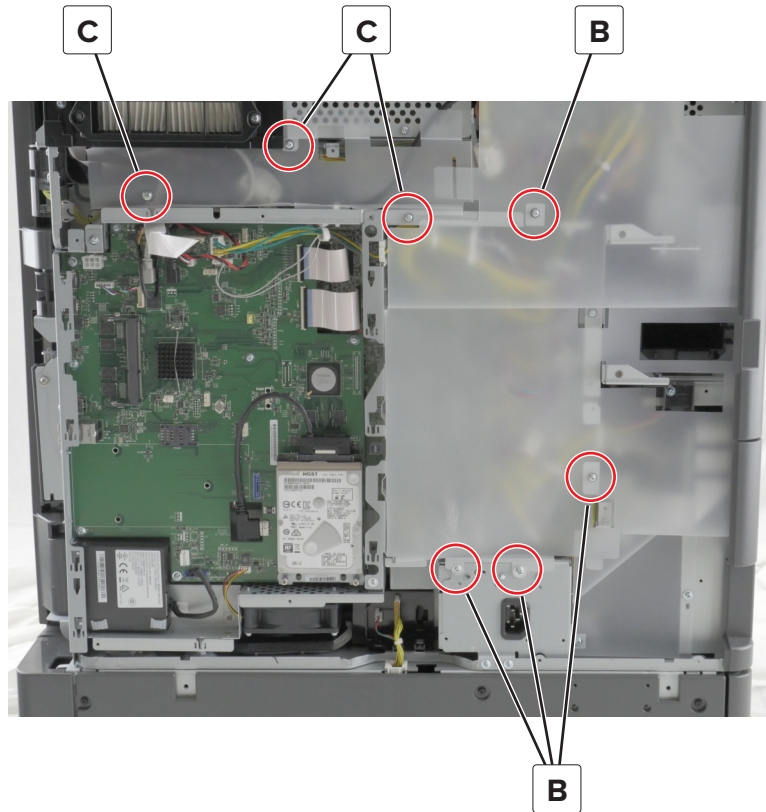
- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 4 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 5 Remove the controller board shield. See [“Controller board shield removal” on page 613.](#)

6 Remove the two screws (A).

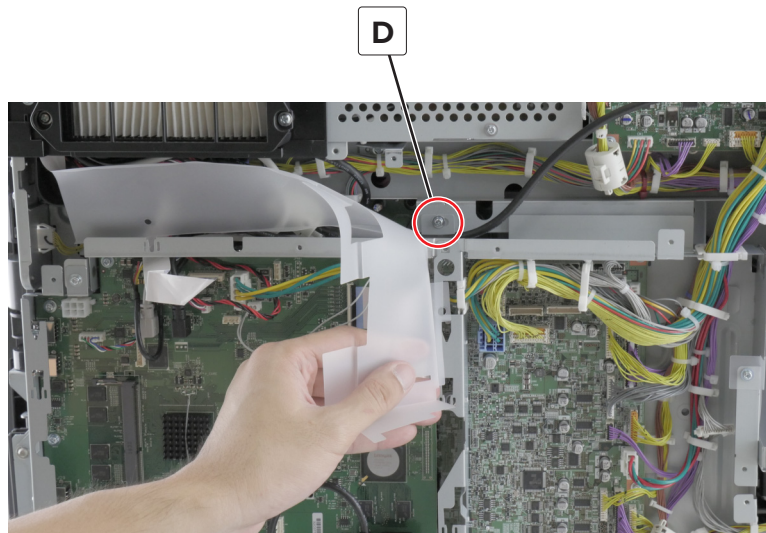


7 Remove the four screws (B), and then remove the white covers.

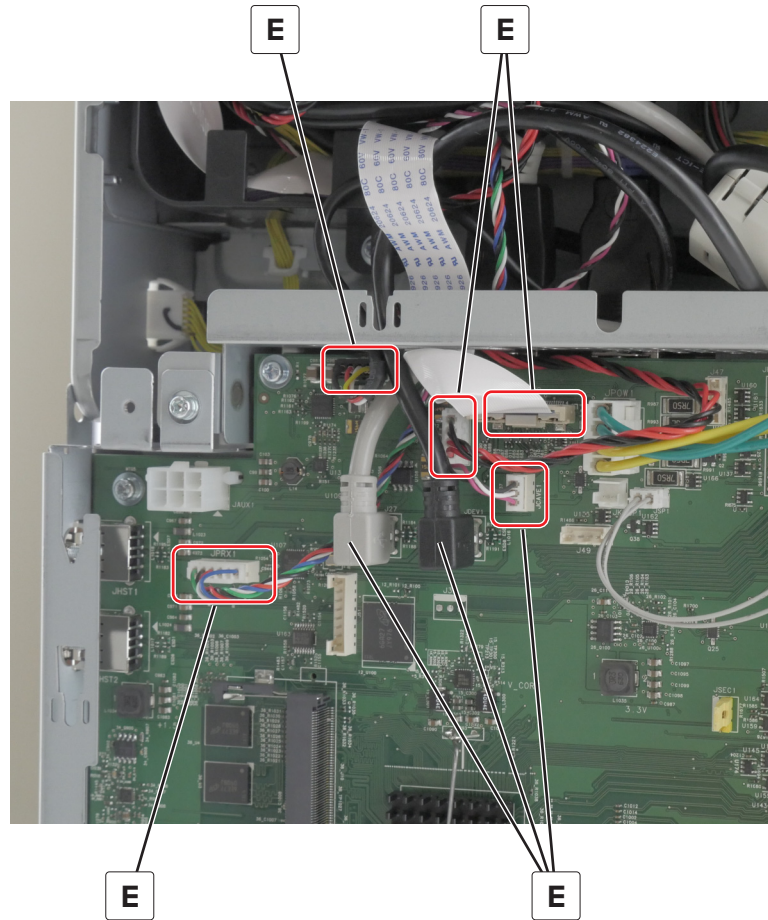
8 Remove the three screws (C) to access the parts behind the cover.



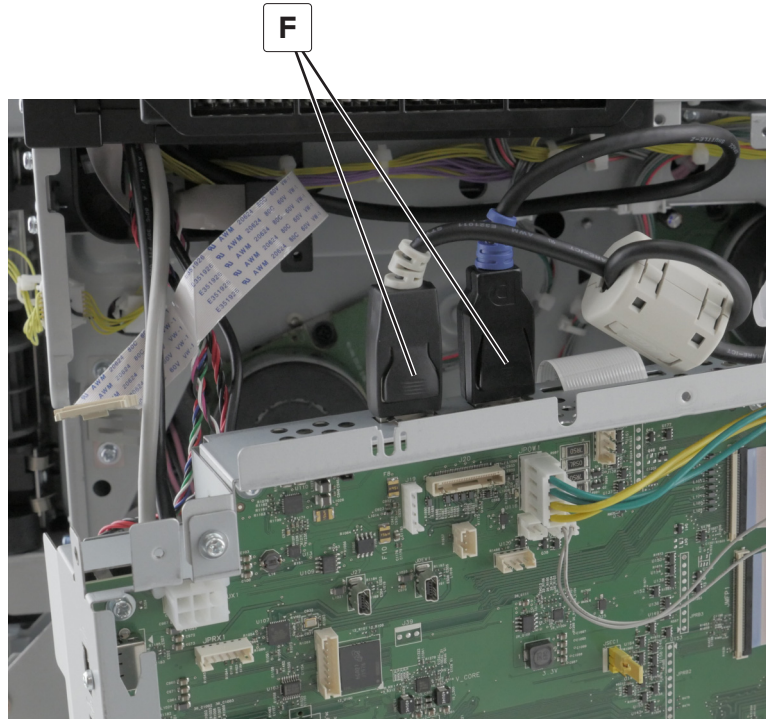
9 Remove the screw (D).



- 10** Disconnect the seven cables (E), and then release them from the frame.



- 11 Disconnect the two cables (F).

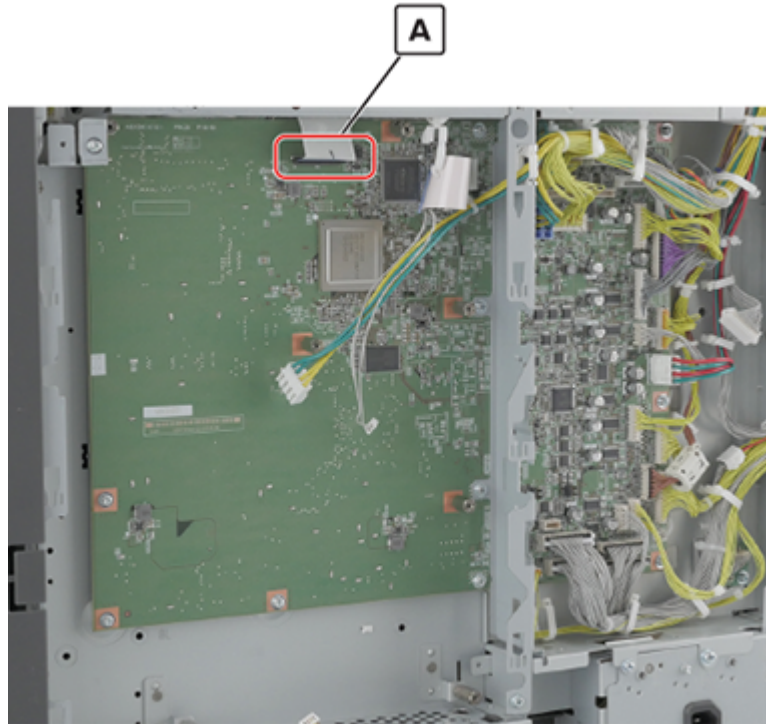


- 12 Open the controller board frame.

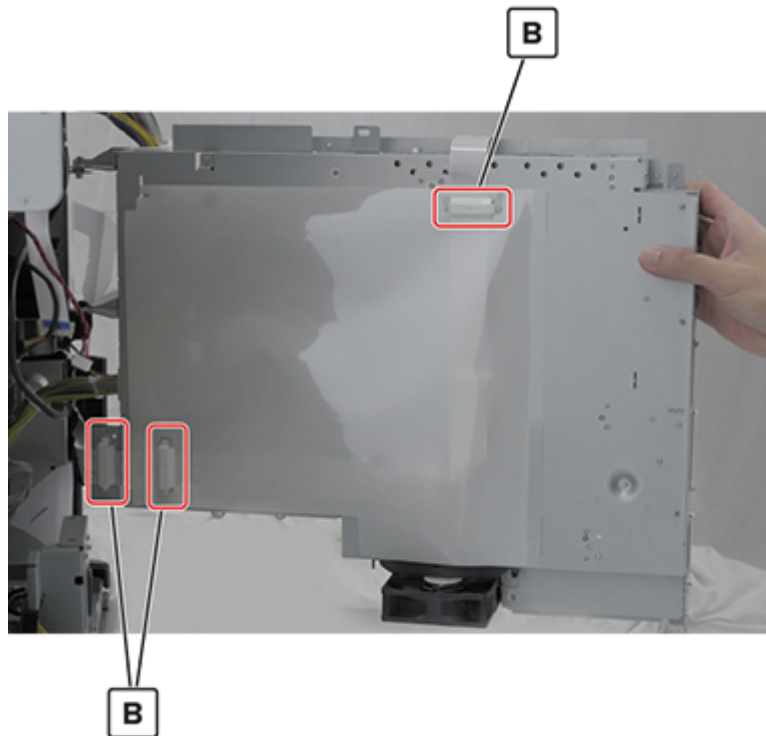
Printhead FFC removal

- 1 Remove the left cover. See [“Left cover removal” on page 415.](#)
- 2 Remove the rear left cover. See [“Rear left cover removal” on page 416.](#)
- 3 Remove the main power supply shield. See [“Main power supply fan removal” on page 420.](#)
- 4 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 5 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 6 Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 7 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 8 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 9 Remove the controller board shield. See [“Controller board shield removal” on page 613.](#)
- 10 Remove the controller board. See [“Controller board removal” on page 613.](#)
- 11 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)

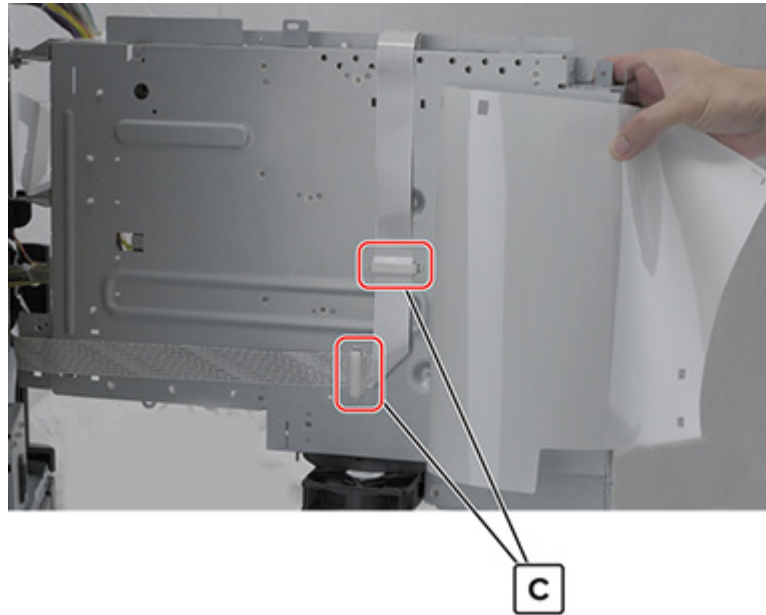
12 Disconnect the cable (A).



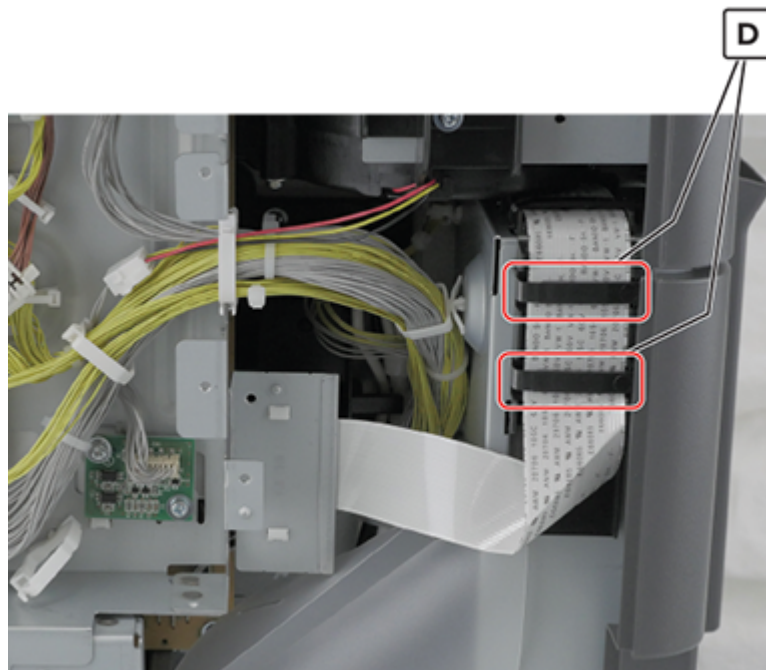
13 Remove the three cable guides (B) at the back of the controller board frame.



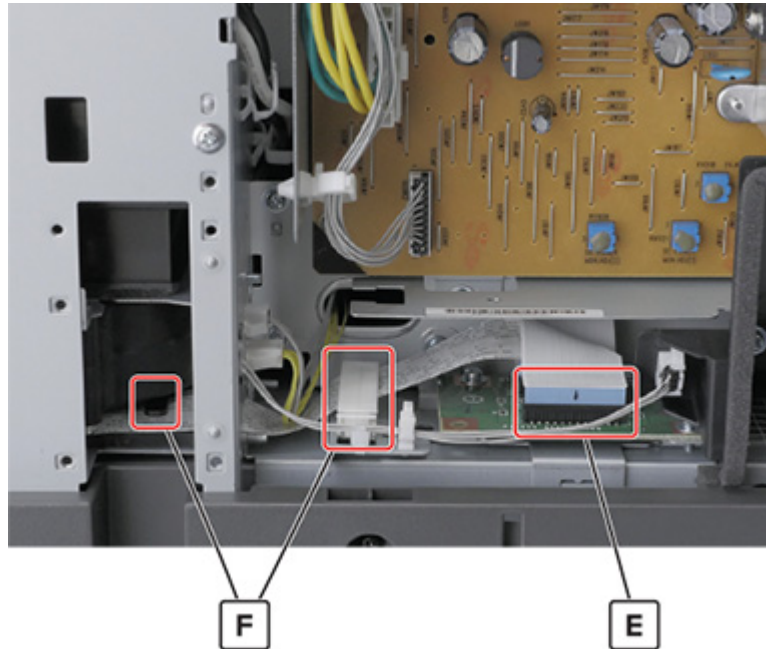
- 14** Remove the two cable guides (C) behind the insulation sheet.



- 15** Release the cable guides (D).



- 16** Disconnect the cable (E) from the left side, and then release it from the guides (F).



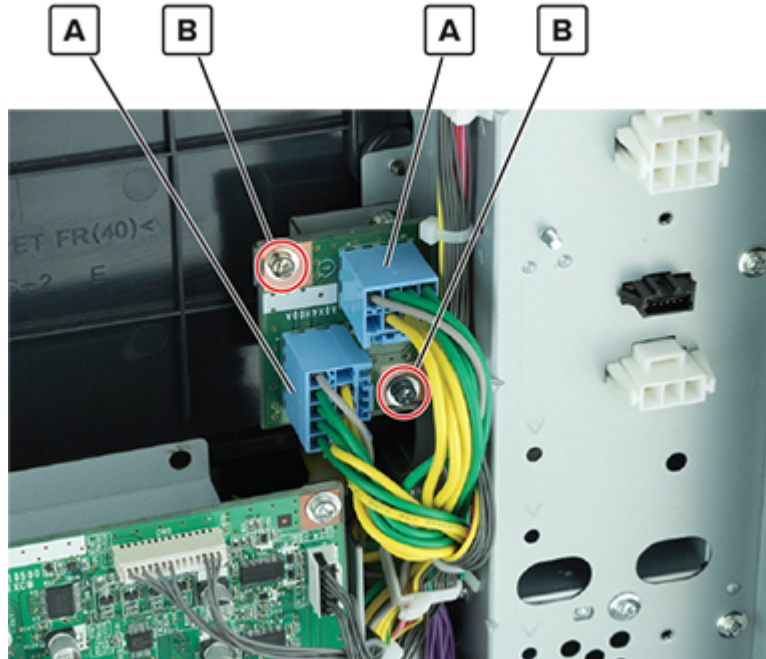
- 17** Remove the cable.

Installation note: Make sure that the cable is properly routed.

Power saving board removal

- 1** Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 4** Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)

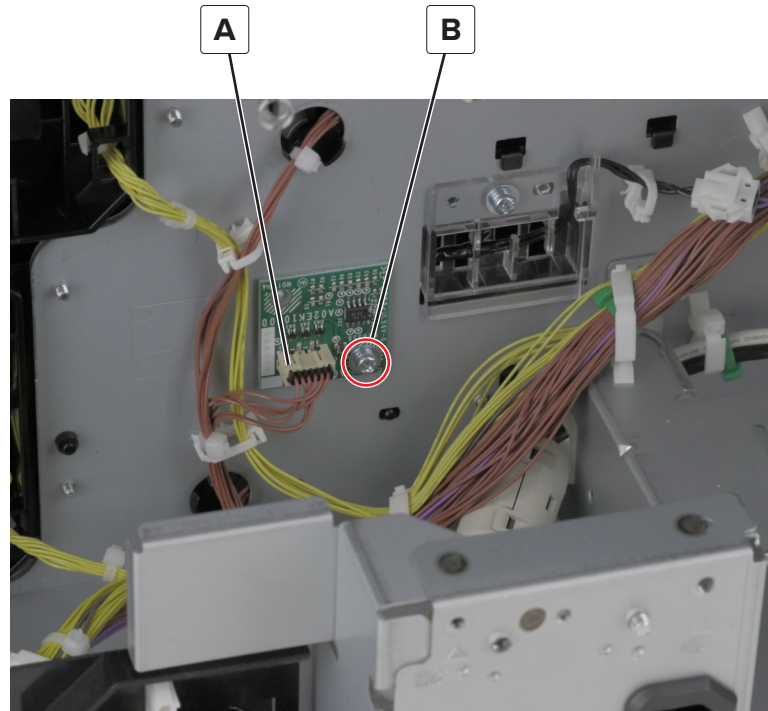
- 5** Disconnect the two cables (A), remove the two screws (B), and then remove the card.



Interconnect board removal

- 1** Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2** Remove the port access door. See [“Port access door removal” on page 432](#).
- 3** Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 4** Remove the port mount. See [“Port mount removal” on page 433](#).
- 5** Open the controller board frame. See [“Controller board frame removal” on page 618](#).
- 6** Remove the high voltage board. See [“High voltage board removal” on page 627](#).

- 7 Disconnect the cable (A), and then remove the two screws (B).



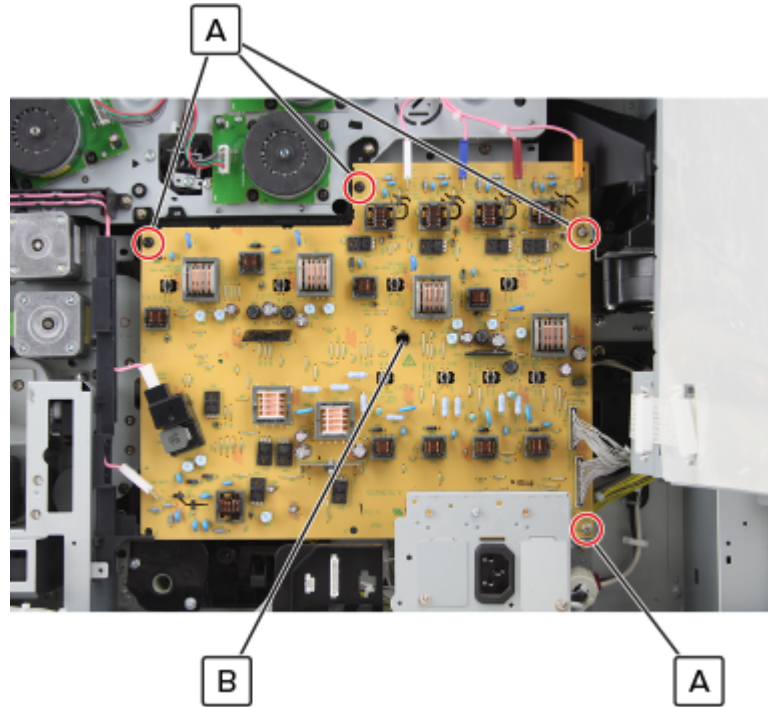
- 8 Remove the board.

High voltage board removal

- 1 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 2 Remove the port access door. See [“Port access door removal” on page 432.](#)
- 3 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 4 Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 5 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 6 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 7 Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 8 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 9 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 10 Remove the board shield. See [“Controller board shield removal” on page 613.](#)
- 11 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 12 Disconnect all the cables, and then remove the four screws (A).

Installation warning: Take note of the original connections of the colored cables.

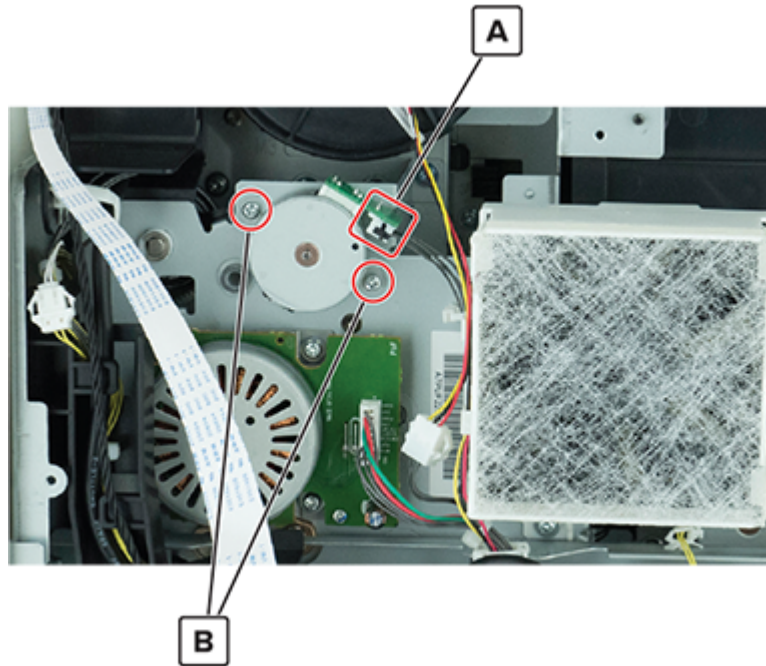
- 13** Release the center post (B), and then remove the board.



Motor (fuser pressure) removal

- 1** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3** Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).
- 4** Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).

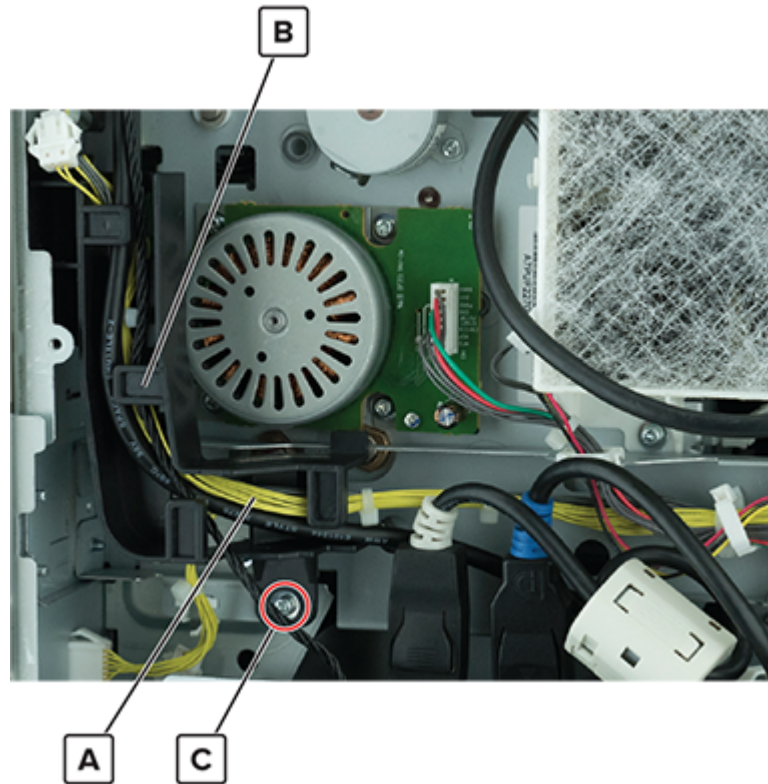
- 5 Disconnect the cable (A), remove the two screws (B), and then remove the motor.



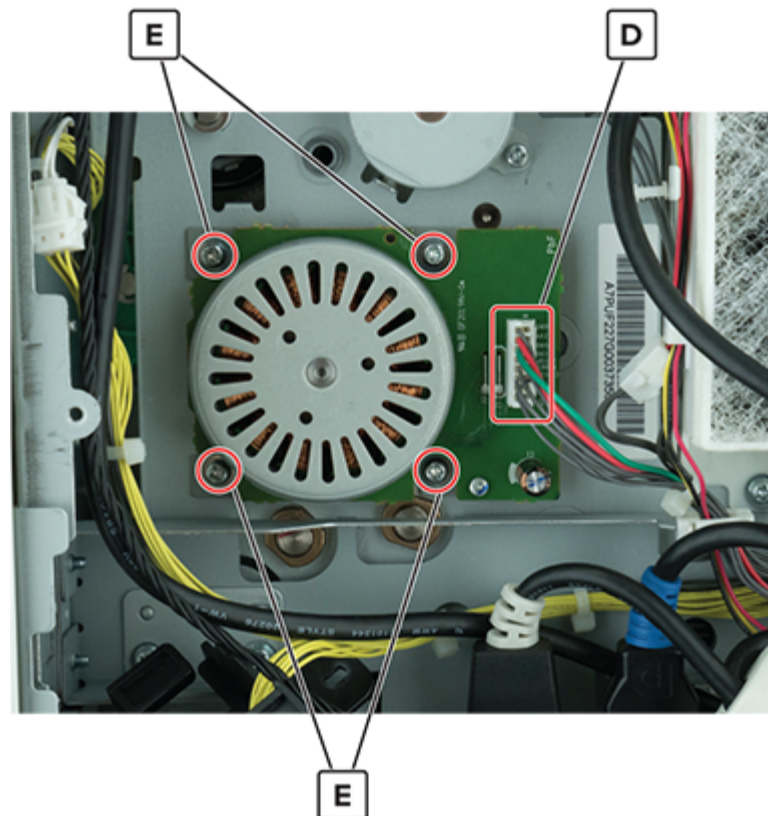
Motor (fuser) removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).

- 5 Remove the cable (A) from the cable guide (B), remove the screw (C), and then remove the cable guide.



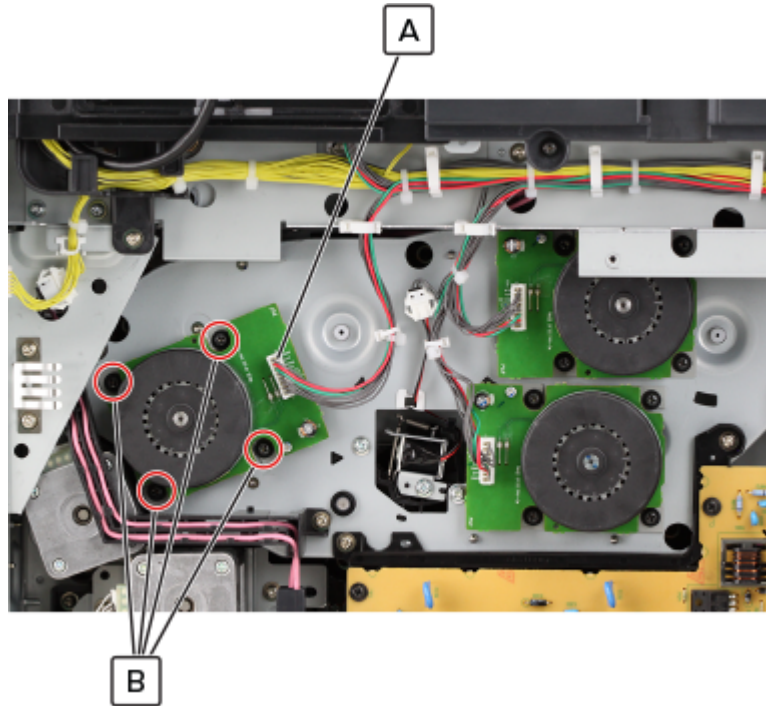
- 6 Disconnect the cable (D), remove the four screws (E), and then remove the motor.



Parts removal

Motor (transport) removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the port access door. See [“Port access door removal” on page 432](#).
- 3 Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 4 Remove the port mount. See [“Port mount removal” on page 433](#).
- 5 Open the controller board frame. See [“Controller board frame removal” on page 618](#).
- 6 Disconnect the cable (A), and then remove the four screws (B).

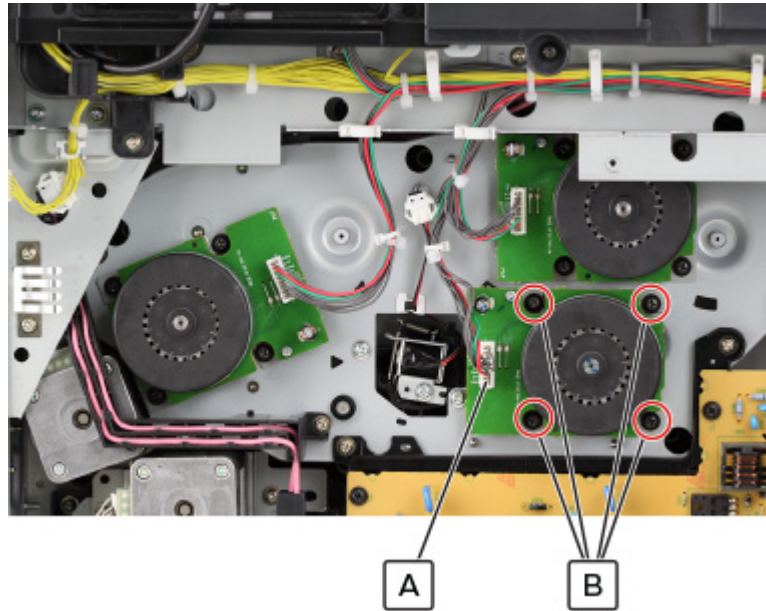


- 7 Remove the motor.

Motor (developer) removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the port access door. See [“Port access door removal” on page 432](#).
- 3 Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 4 Remove the port mount. See [“Port mount removal” on page 433](#).
- 5 Open the controller board frame. See [“Controller board frame removal” on page 618](#).

- 6 Disconnect the cable (A), and then remove the four screws (B).

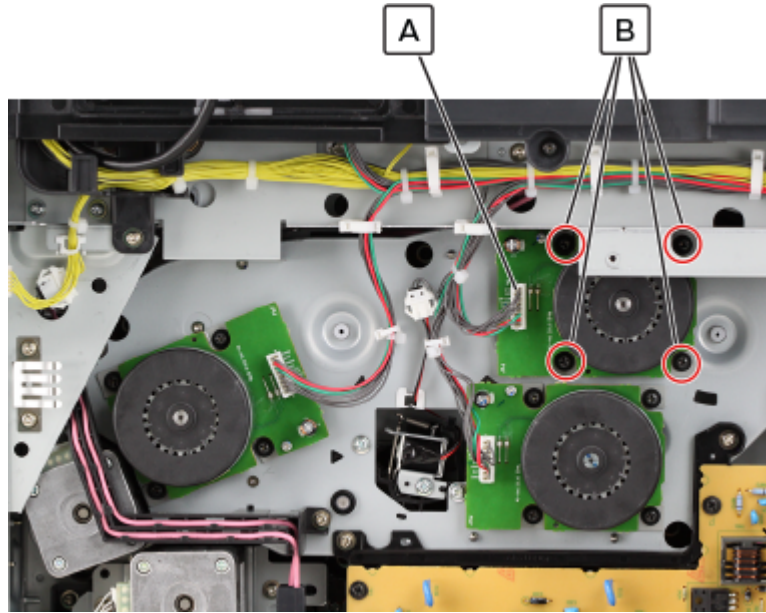


- 7 Remove the motor.

Motor (photoconductor) removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 2 Remove the port access door. See [“Port access door removal” on page 432.](#)
- 3 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 4 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 5 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)

- 6 Disconnect the cable (A), and then remove the four screws (B).

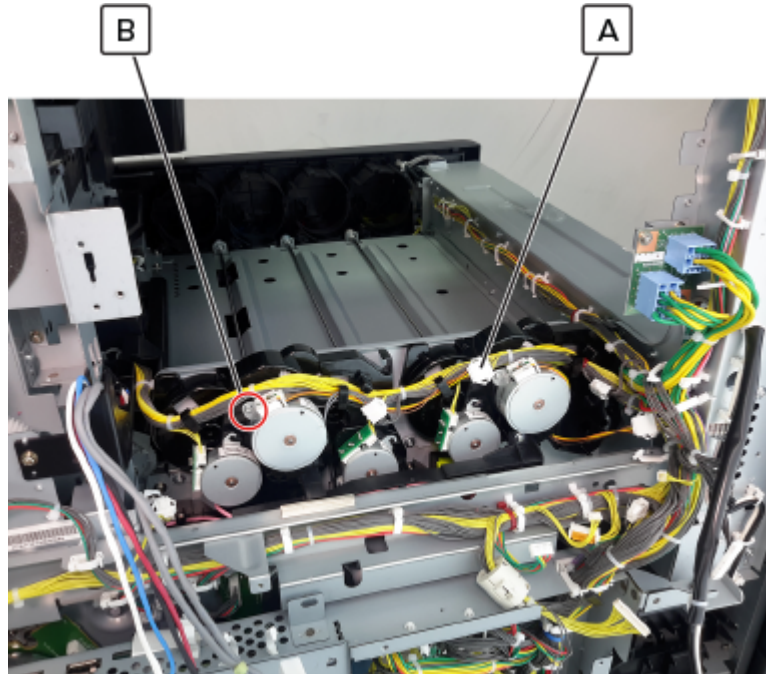


- 7 Remove the motor.

Motor (CK toner cartridge) removal

- 1 Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 2 Remove the bin side cover. See [“Bin side cover removal” on page 679.](#)
- 3 Remove the right bin side cover. See [“Right bin side cover removal” on page 678.](#)
- 4 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 5 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 6 Remove the EXCB. See [“Expansion controller board removal” on page 607.](#)

- 7 Disconnect the cable (A), and then remove the screw (B).

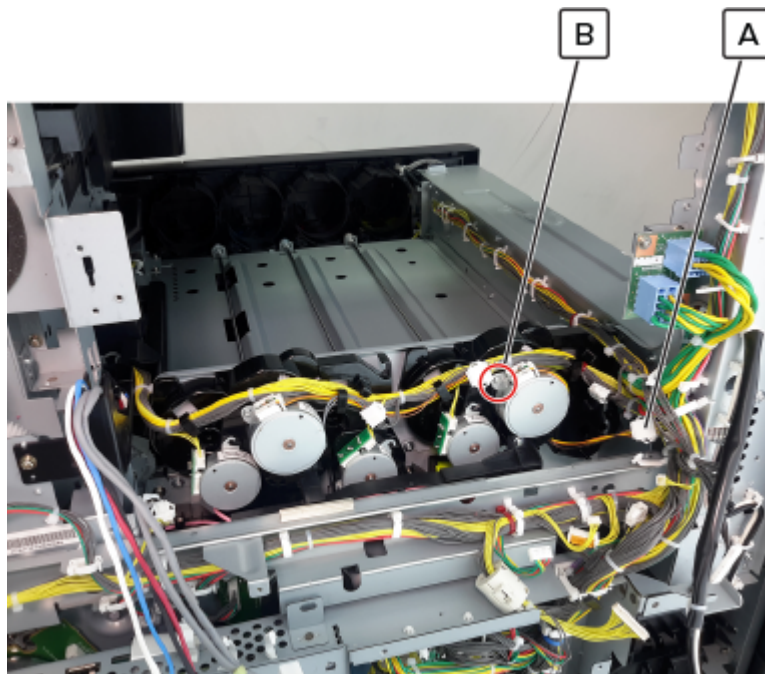


- 8 Remove the motor.

Motor (MY toner cartridge) removal

- 1 Remove the standard bin base. See [“Standard bin base removal” on page 677](#).
- 2 Remove the bin side cover. See [“Bin side cover removal” on page 679](#).
- 3 Remove the right bin side cover. See [“Right bin side cover removal” on page 678](#).
- 4 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 5 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).
- 6 Remove the EXCB. See [“Expansion controller board removal” on page 607](#).

- 7 Disconnect the cable (A), and then remove the screw (B).

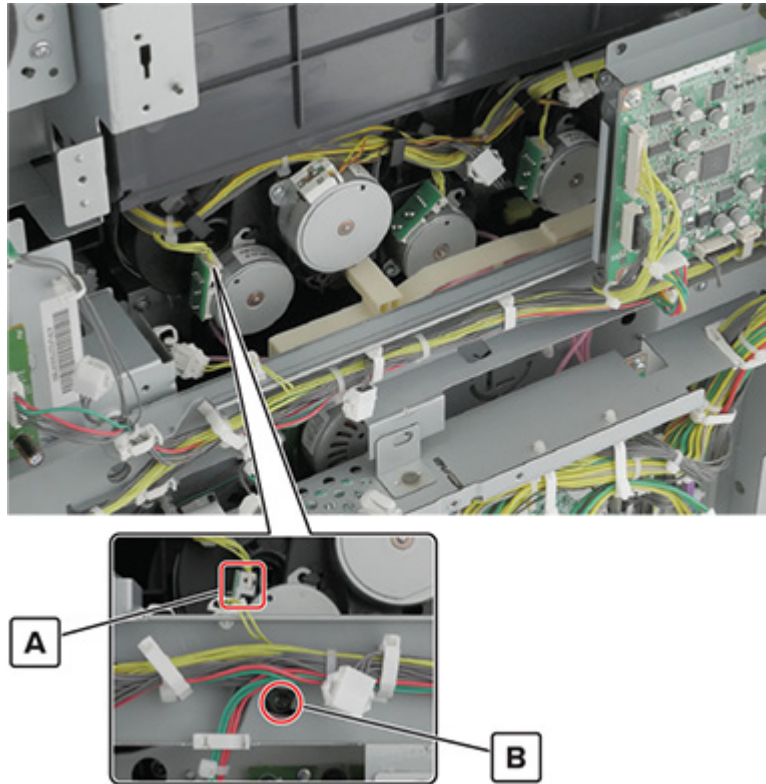


- 8 Remove the motor.

Motor (C toner supply) removal

- 1 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 2 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 3 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)

- 4 Disconnect the cable (A), remove the screw (B), and then remove the motor.



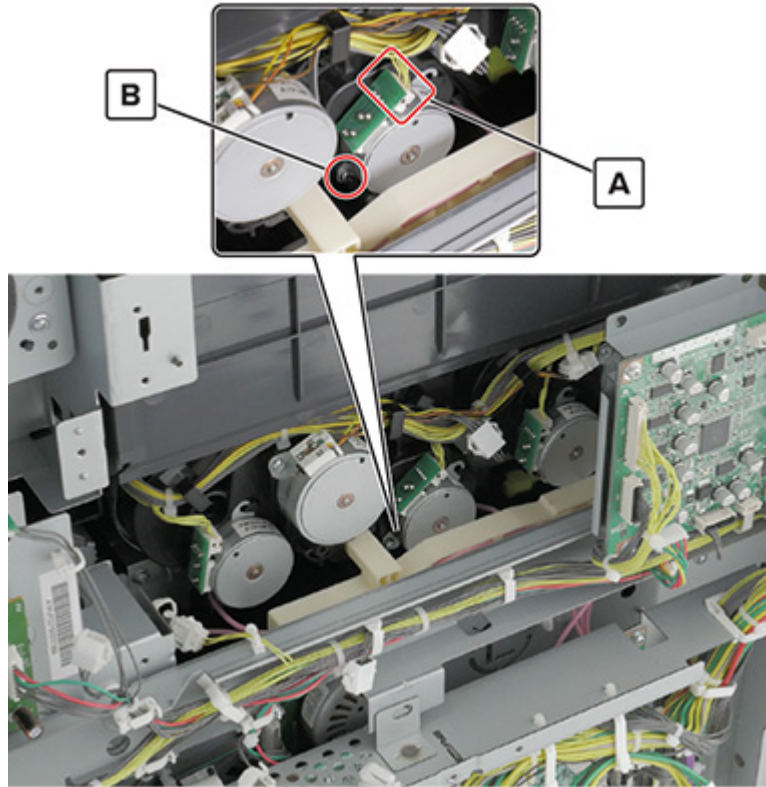
Note: Turn the motor counterclockwise to remove it.



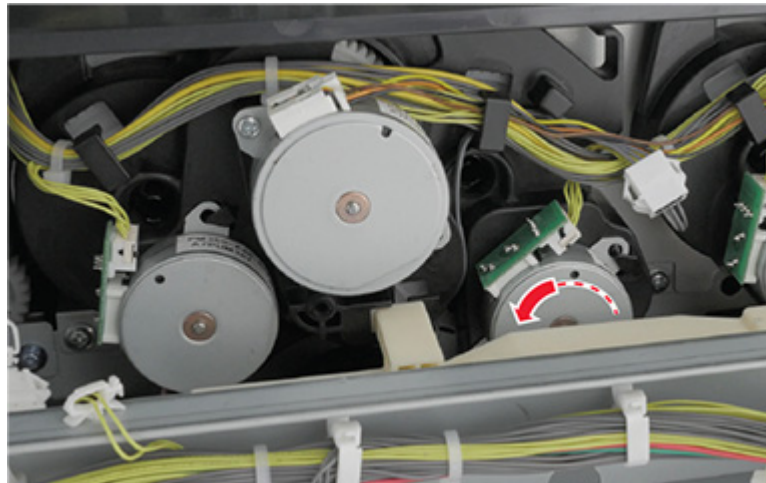
Motor (M toner supply) removal

- 1 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 2 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 3 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)

- 4 Disconnect the cable (A), remove the screw (B), and then remove the motor.



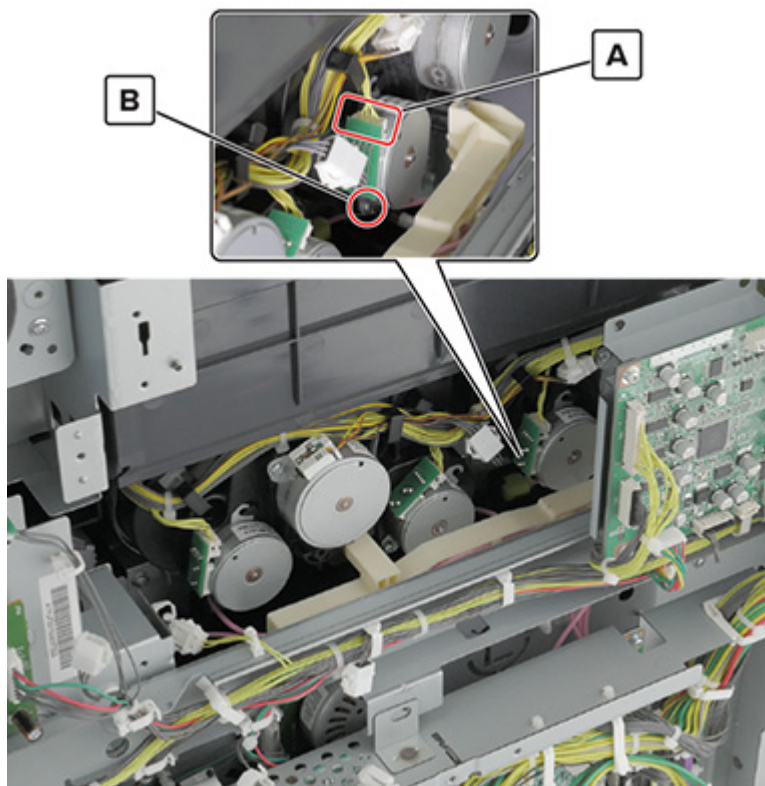
Note: Turn the motor counterclockwise to remove it.



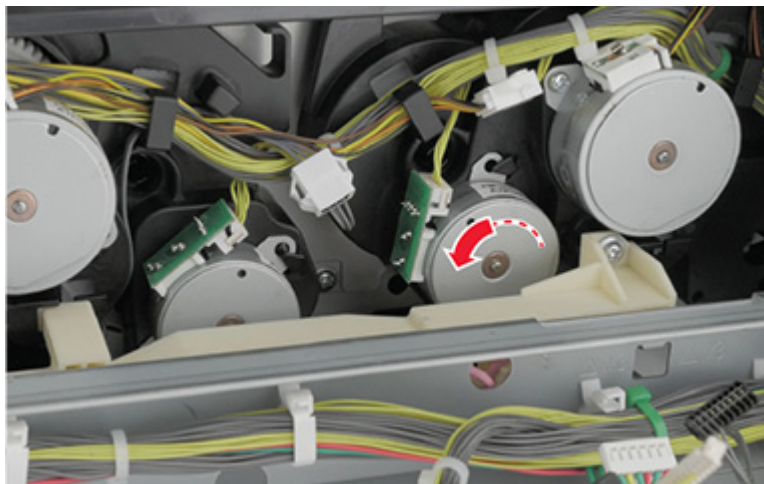
Motor (Y toner supply) removal

- 1 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 2 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 3 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)

- 4 Disconnect the cable (A), remove the screw (B), and then remove the motor.



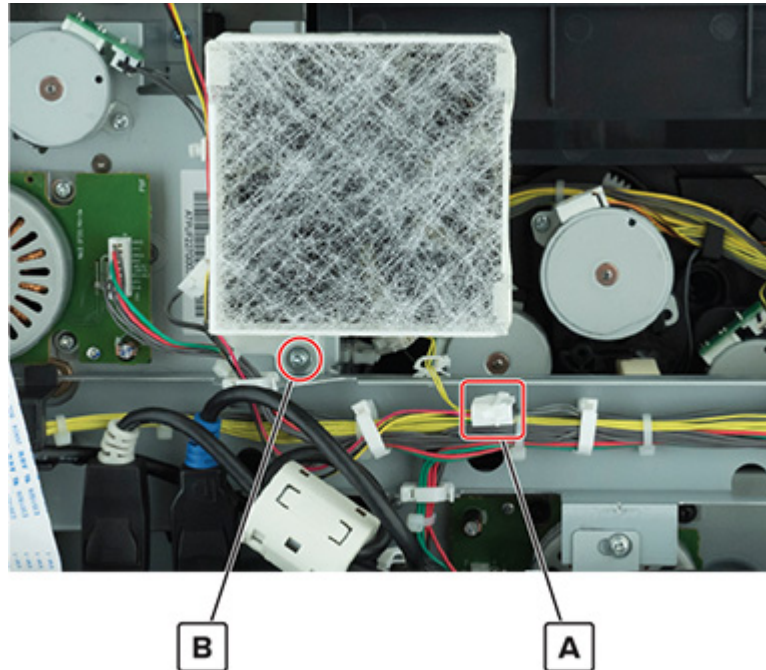
Note: Turn the motor counterclockwise to remove it.



Toner cartridge cooling fan removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).

- 5 Disconnect the cable (A), remove the cable from the cable guides, and then remove the screw (B).

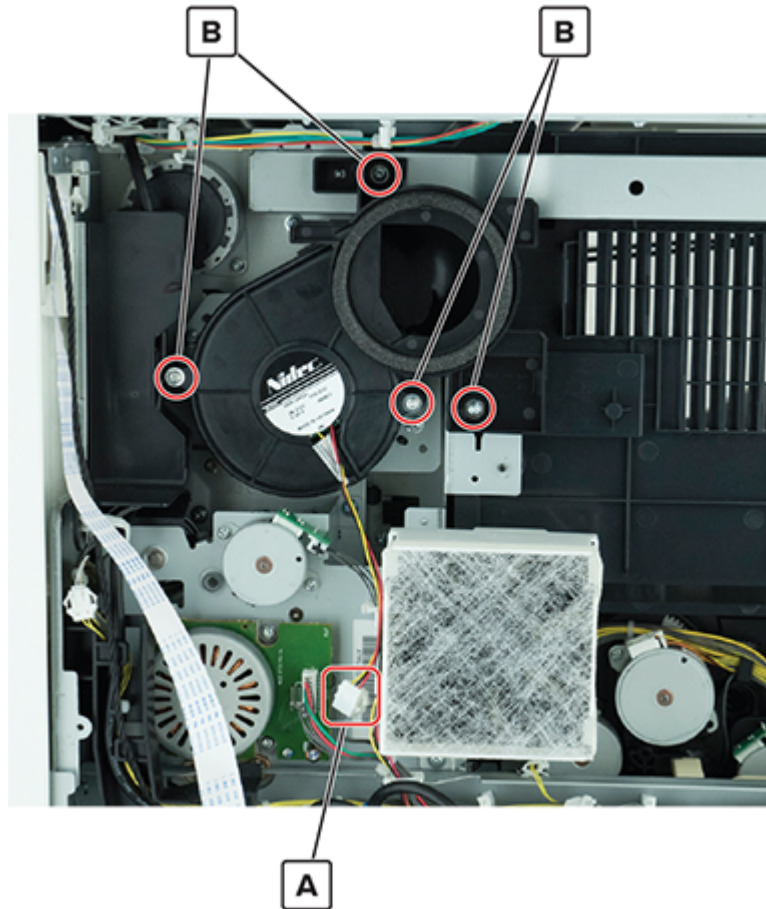


- 6 Remove the fan.

Paper exit fan removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).

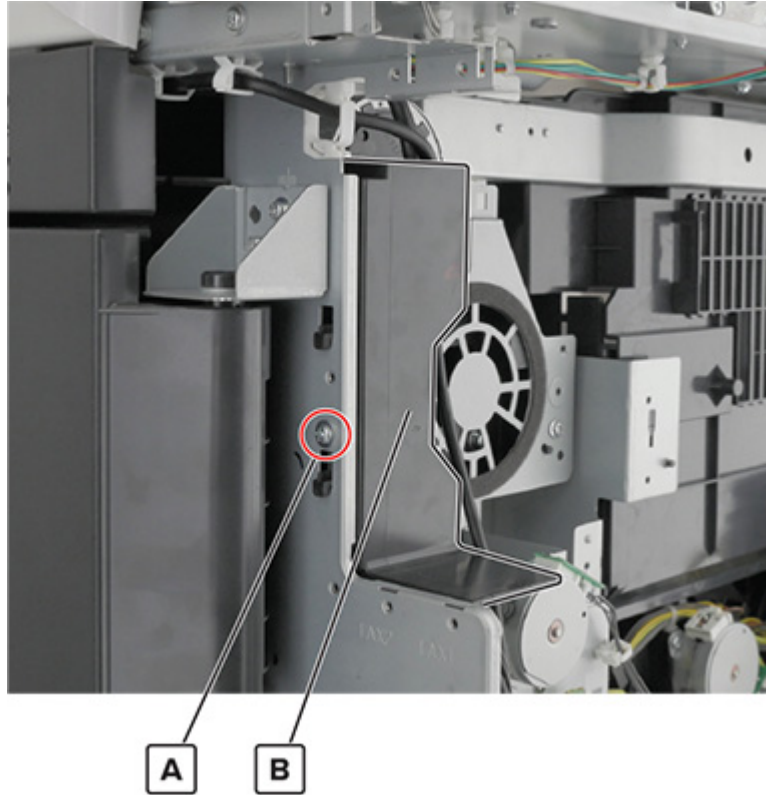
- 5** Disconnect the cable (A), remove the four screws (B), and then remove the fan.



Fuser drive gearbox removal

- 1** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3** Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).
- 4** Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 5** Remove the expansion controller board. See [“Expansion controller board removal” on page 607](#).
- 6** Remove the center guide bracket. See [“Center guide bracket removal” on page 609](#).

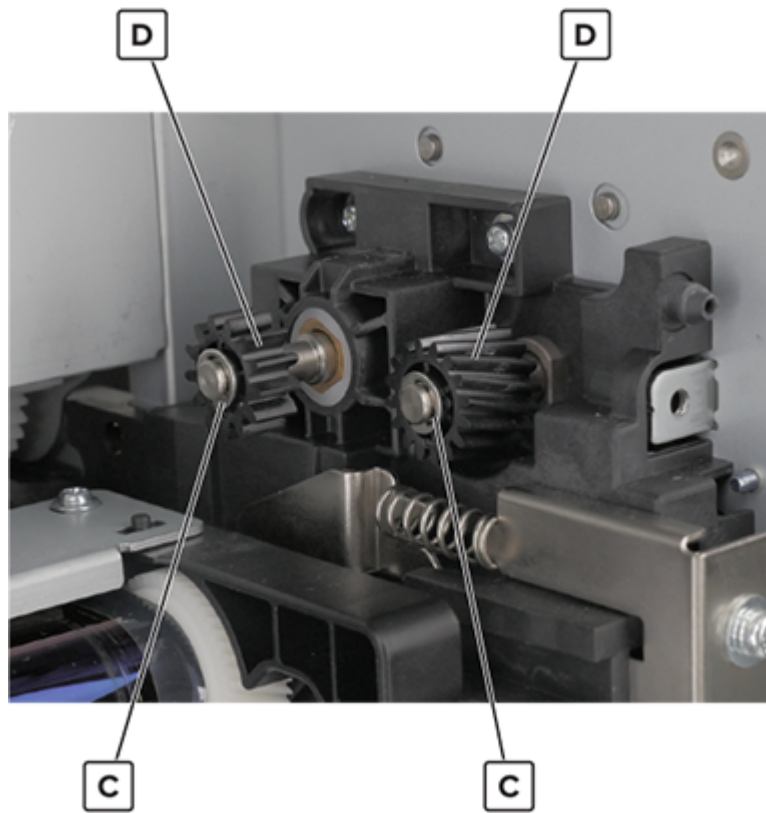
- 7 Remove the screw (A), and then remove the cable guide (B).



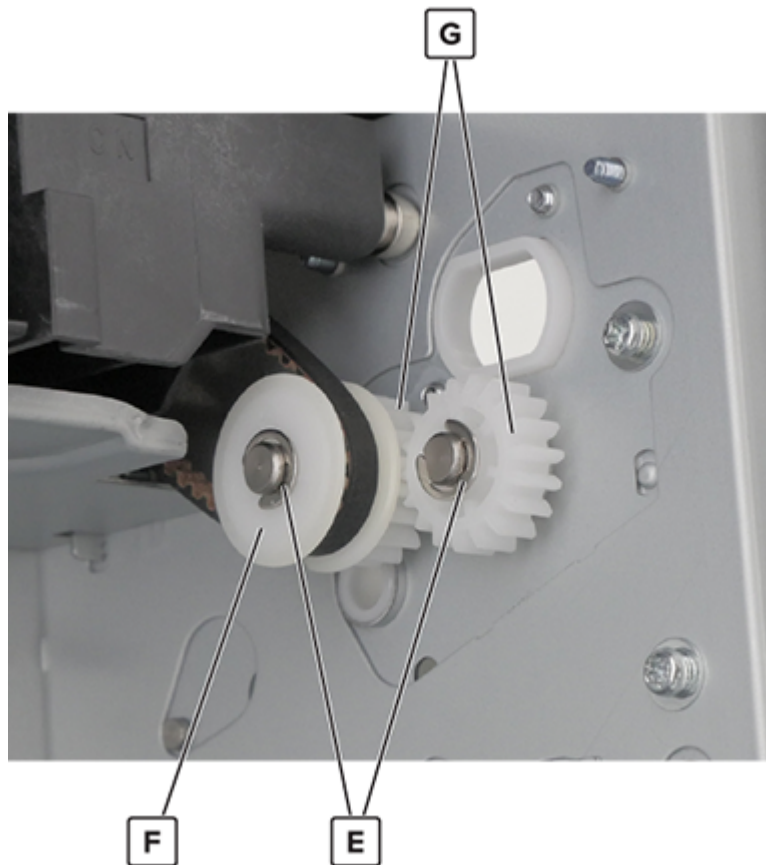
- 8 Open the right door, remove the two E-clips (C), and then remove the two gears (D).



CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

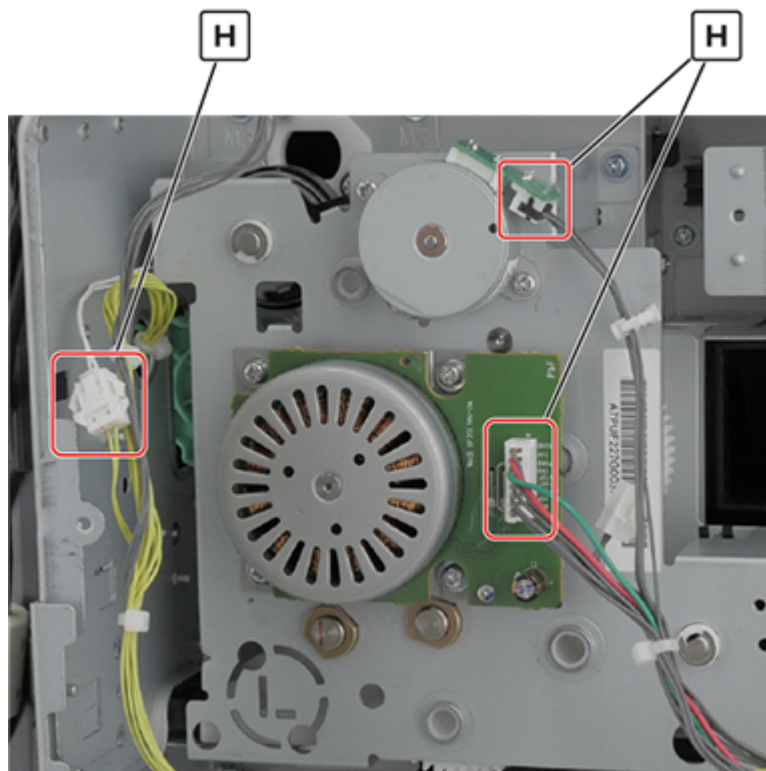


9 Remove the two E-clips (E), remove the washer (F), and then remove the two gears (G).

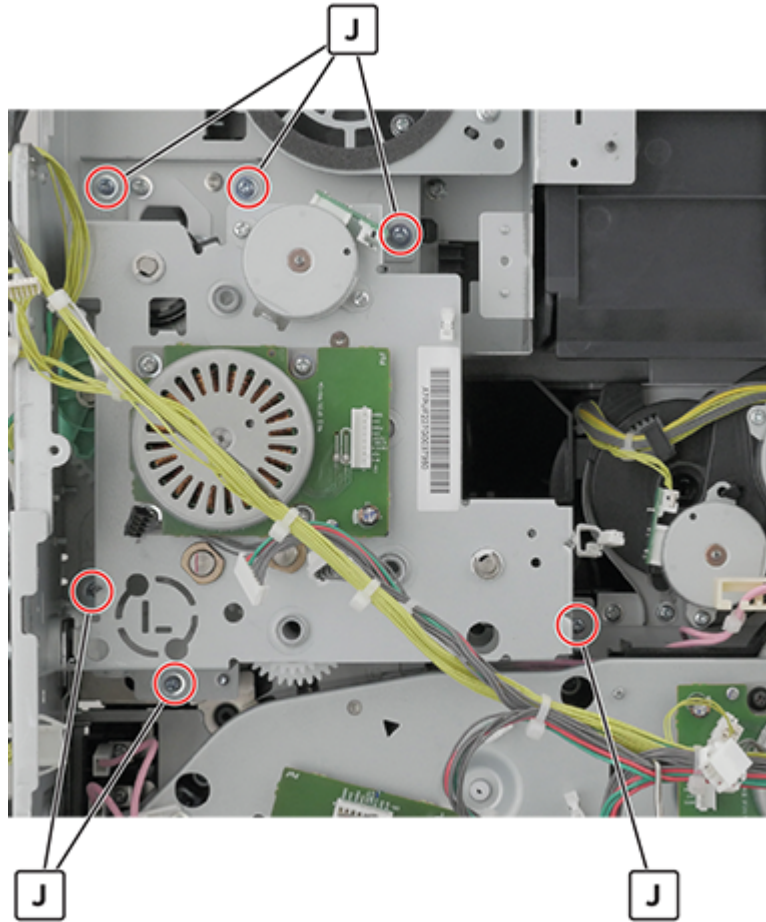


Parts removal

10 Disconnect the three cables (H).



11 Remove the six screws (J).

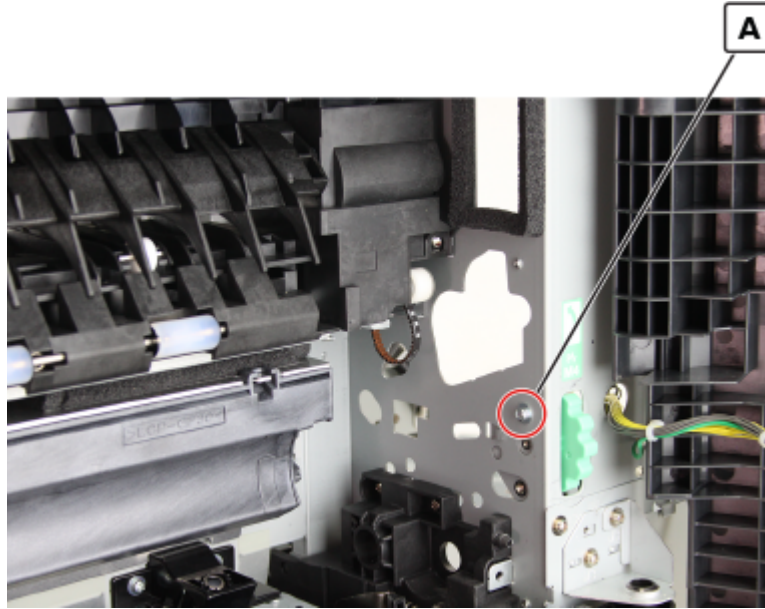


12 Remove the drive gearbox.

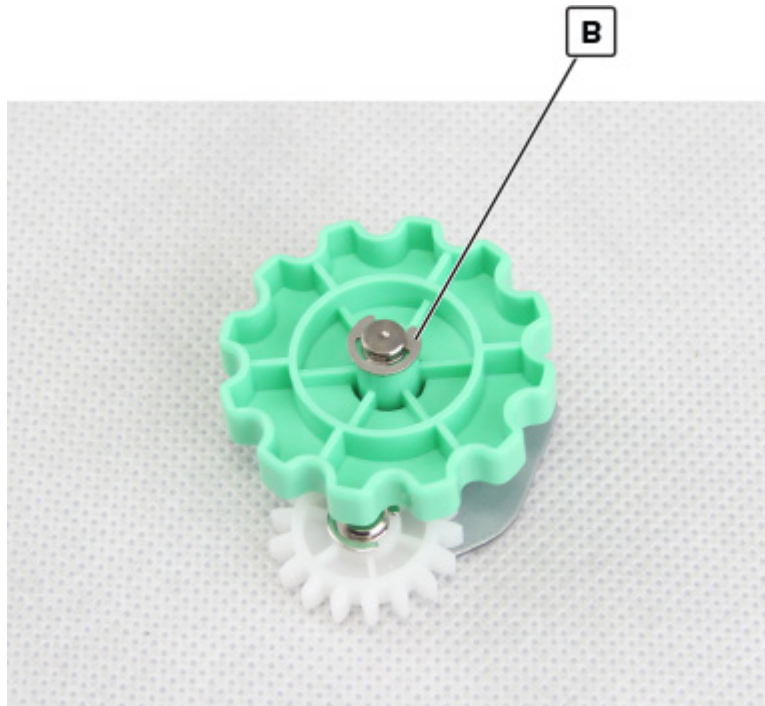
Fuser knob removal

- 1** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3** Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 4** Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 5** Remove the expansion controller board. See [“Expansion controller board removal” on page 607.](#)
- 6** Remove the center guide bracket. See [“Center guide bracket removal” on page 609.](#)
- 7** Remove the fuser drive gearbox. See [“Fuser drive gearbox removal” on page 640.](#)

- 8** Remove the screw (A), and then remove the knob with gear.



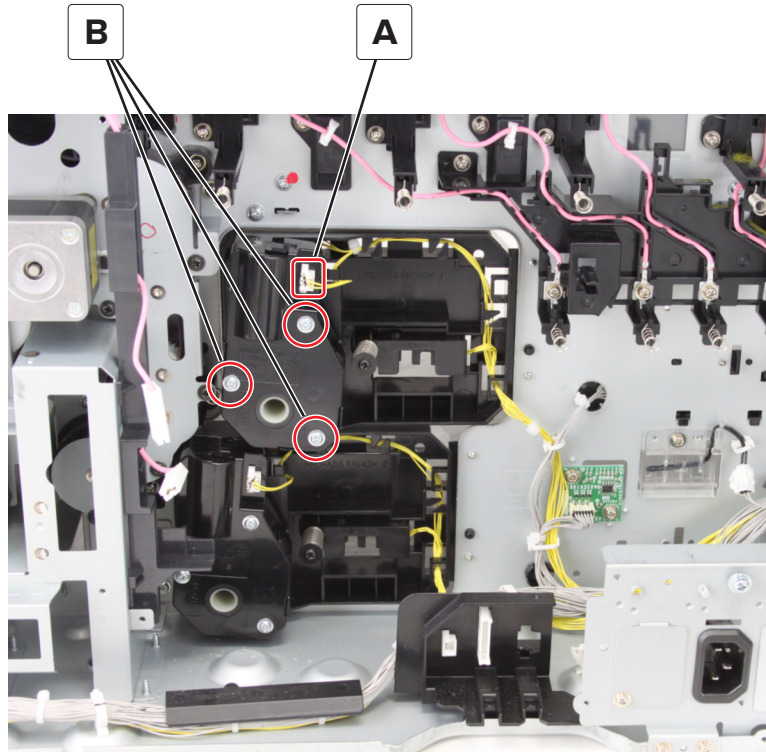
- 9** Remove the E-clip (B), and then remove the knob.



Motor (tray 1 lift) removal

- 1** Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 2** Remove the port access door. See [“Port access door removal” on page 432.](#)
- 3** Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)

- 4 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 5 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 6 Remove the high voltage board. See [“High voltage board removal” on page 627.](#)
- 7 Disconnect the cable (A), and then remove the three screws (B).

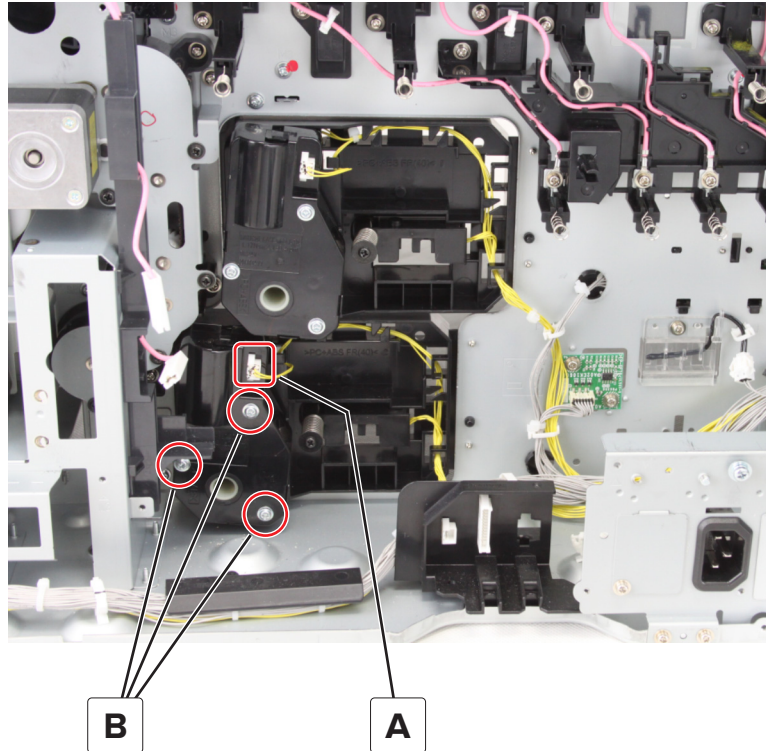


- 8 Remove the motor.

Motor (tray 2 lift) removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 2 Remove the port access door. See [“Port access door removal” on page 432.](#)
- 3 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 4 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 5 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 6 Remove the high voltage board. See [“High voltage board removal” on page 627.](#)

- 7 Disconnect the cable (A), and then remove the three screws (B).

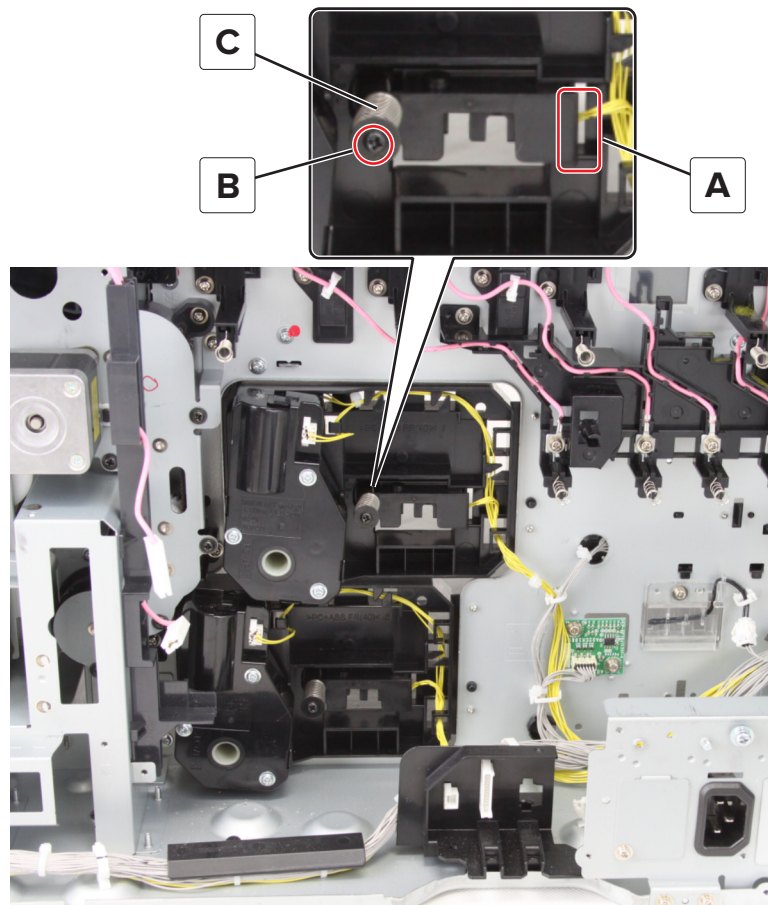


- 8 Remove the motor.

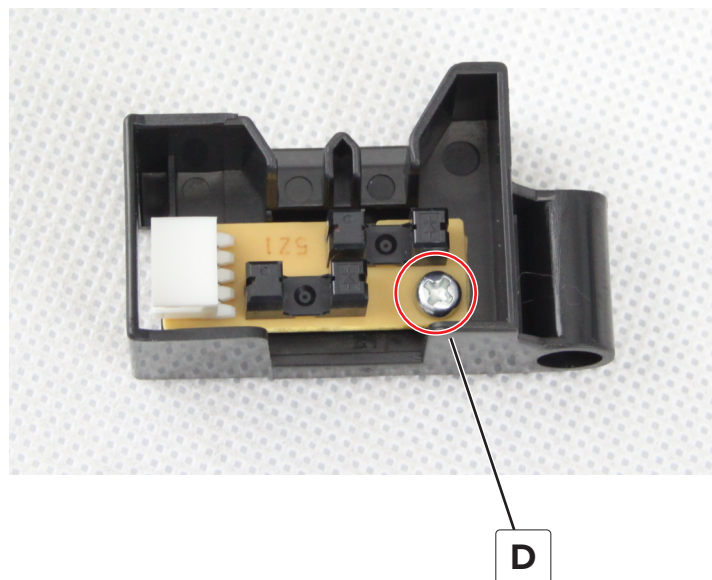
Sensor (tray 1 paper width) removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the port access door. See [“Port access door removal” on page 432](#).
- 3 Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 4 Remove the port mount. See [“Port mount removal” on page 433](#).
- 5 Open the controller board frame. See [“Controller board frame removal” on page 618](#).
- 6 Remove the high voltage board. See [“High voltage board removal” on page 627](#).
- 7 Disconnect the cable (A), and then remove the screw (B) and spring (C).

Warning—Potential Damage: Do not lose the spring.



8 Remove the sensor housing, and then remove the screw (D).

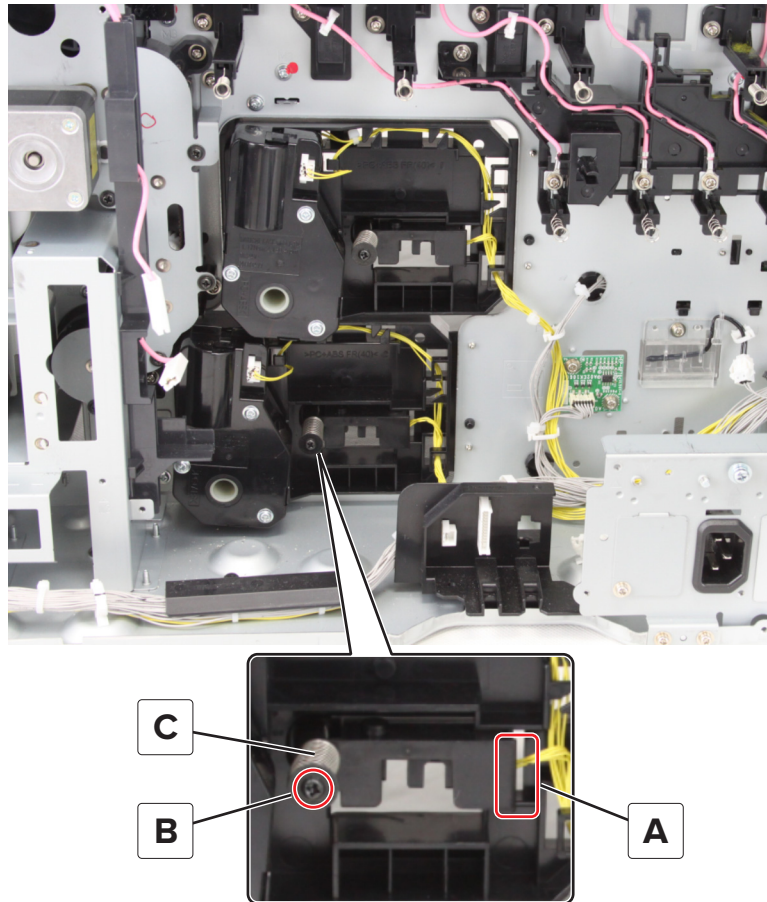


9 Remove the sensor.

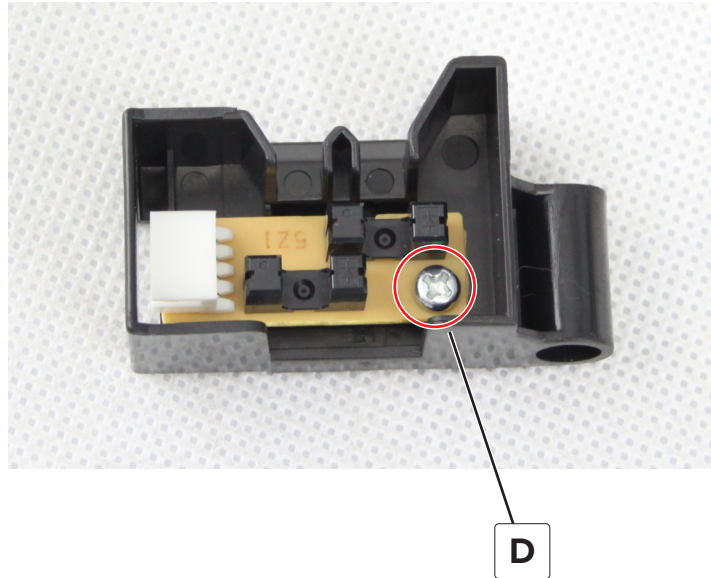
Sensor (tray 2 paper width) removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the port access door. See [“Port access door removal” on page 432](#).
- 3 Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 4 Remove the port mount. See [“Port mount removal” on page 433](#).
- 5 Open the controller board frame. See [“Controller board frame removal” on page 618](#).
- 6 Remove the high voltage board. See [“High voltage board removal” on page 627](#).
- 7 Disconnect the cable (A), and then remove the screw (B) and spring (C).

Warning—Potential Damage: Do not lose the spring.



- 8 Remove the sensor housing, and then remove the screw (D).

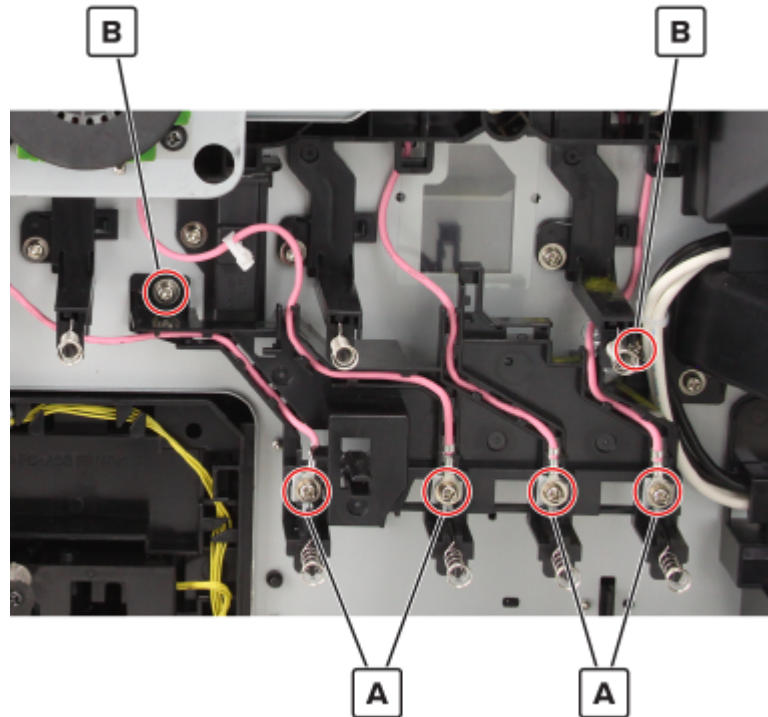


- 9 Remove the sensor.

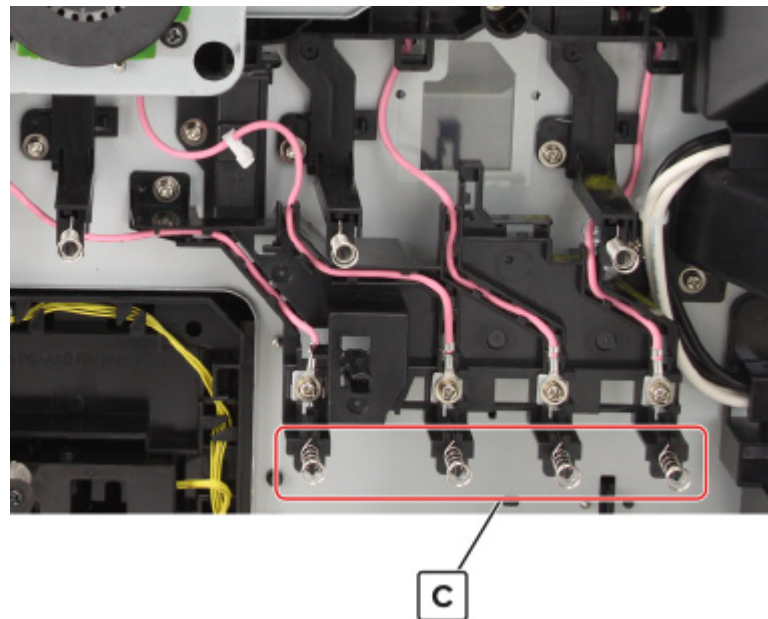
High voltage developer contact removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the port access door. See [“Port access door removal” on page 432](#).
- 3 Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 4 Remove the port mount. See [“Port mount removal” on page 433](#).
- 5 Open the controller board frame. See [“Controller board frame removal” on page 618](#).
- 6 Remove the high voltage board. See [“High voltage board removal” on page 627](#).
- 7 Remove the four screws (A), and then disconnect the cables.

- 8 Remove the two screws (B), and then remove the contact.



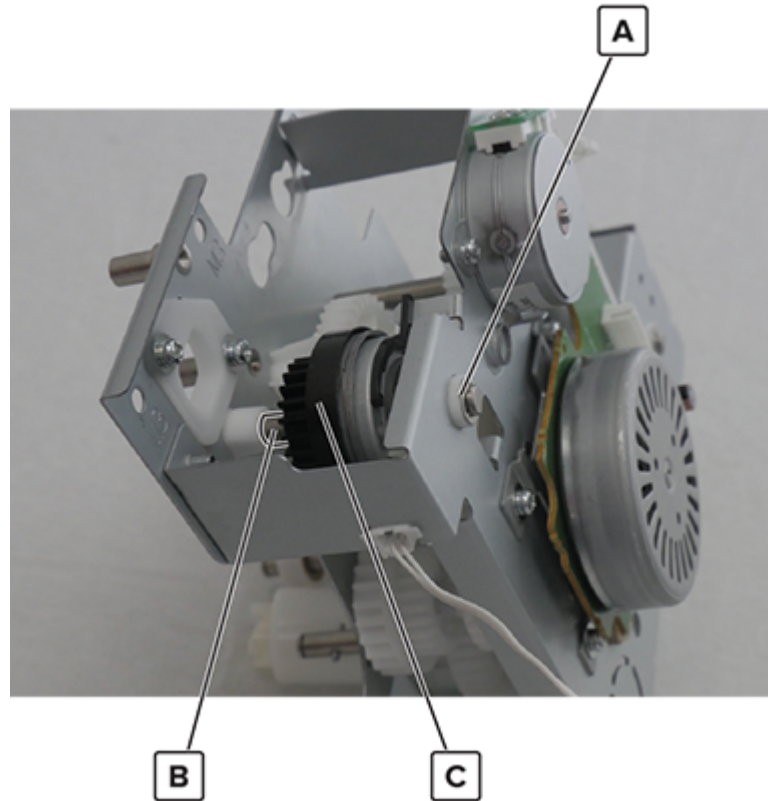
Warning—Potential Damage: Do not lose the contact springs (C).



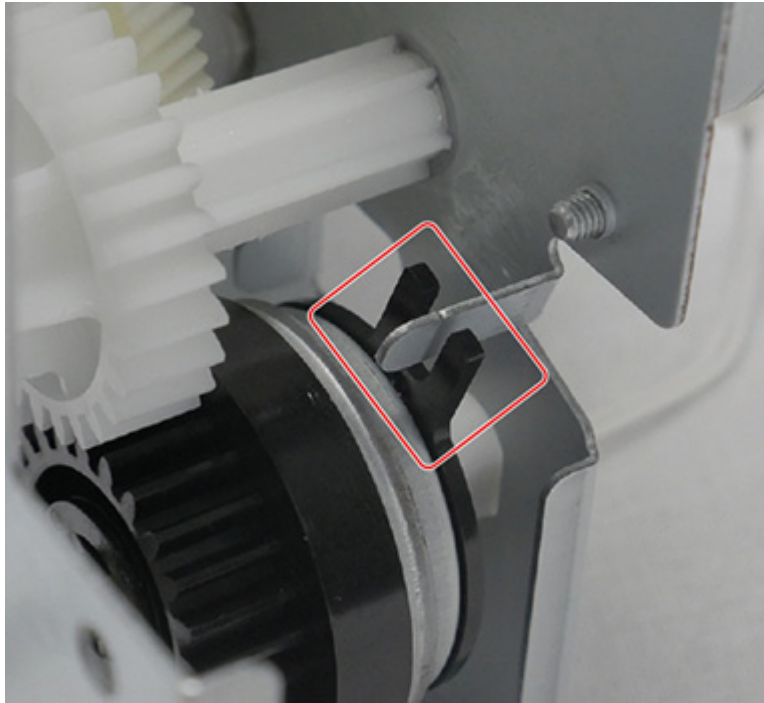
Fuser drive clutch 1 removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).

- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 5 Remove the expansion controller board. See [“Expansion controller board removal” on page 607](#).
- 6 Remove the center guide bracket. See [“Center guide bracket removal” on page 609](#).
- 7 Remove the fuser drive gearbox. See [“Fuser drive gearbox removal” on page 640](#).
- 8 Remove the E-clip (A), remove the rod (B), and then remove the clutch (C).



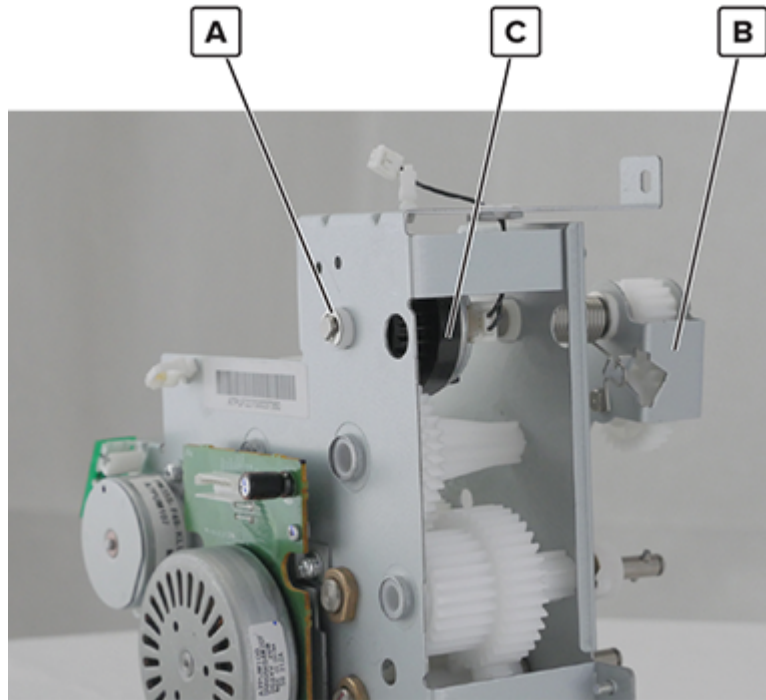
Installation note: Pay attention to the position of the locator pins when reinstalling the clutch.



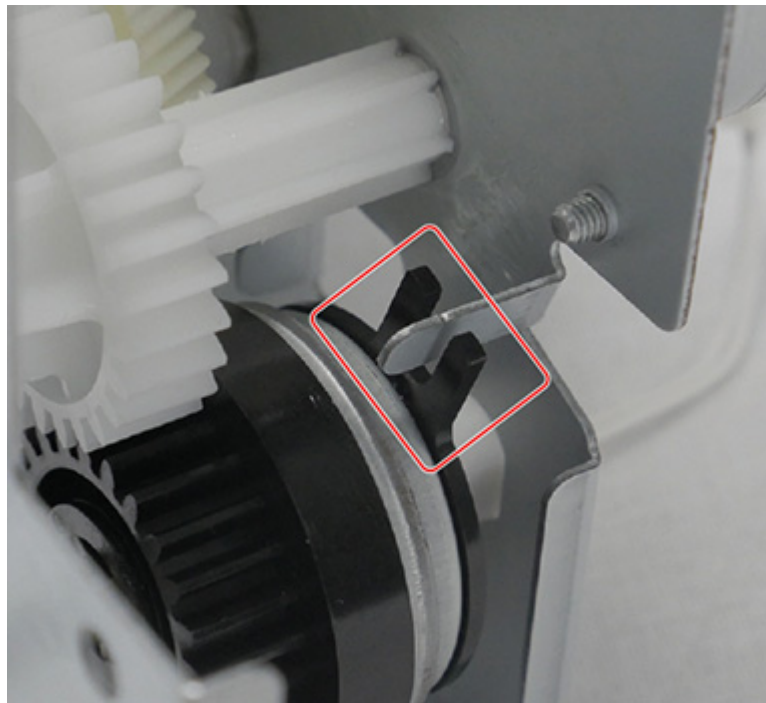
Fuser drive clutch 2 removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 5 Remove the expansion controller board. See [“Expansion controller board removal” on page 607.](#)
- 6 Remove the center guide bracket. See [“Center guide bracket removal” on page 609.](#)
- 7 Remove the fuser drive gearbox. See [“Fuser drive gearbox removal” on page 640.](#)

- 8 Remove the E-clip (A), remove the gear assembly (B), and then remove the clutch (C).



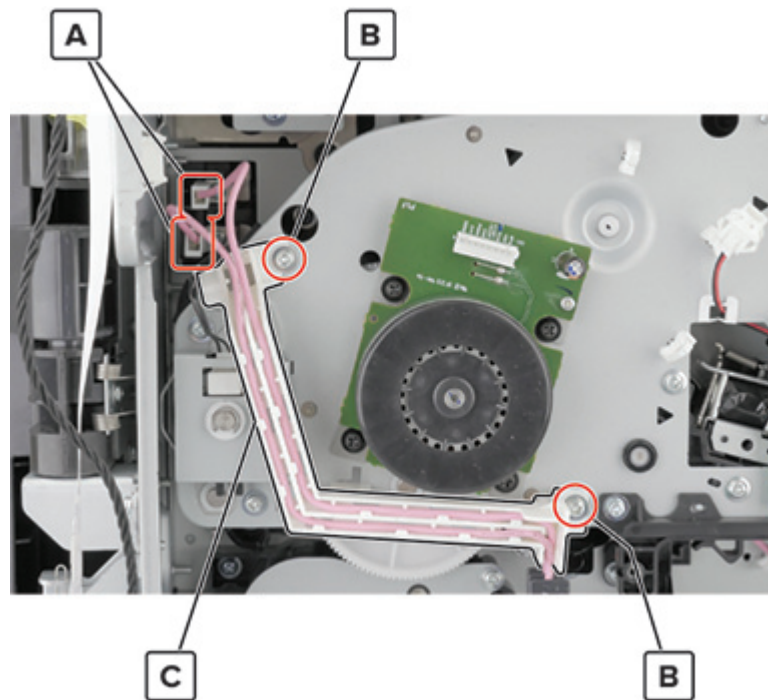
Installation note: Pay attention to the position of the locator pins when reinstalling the clutch.



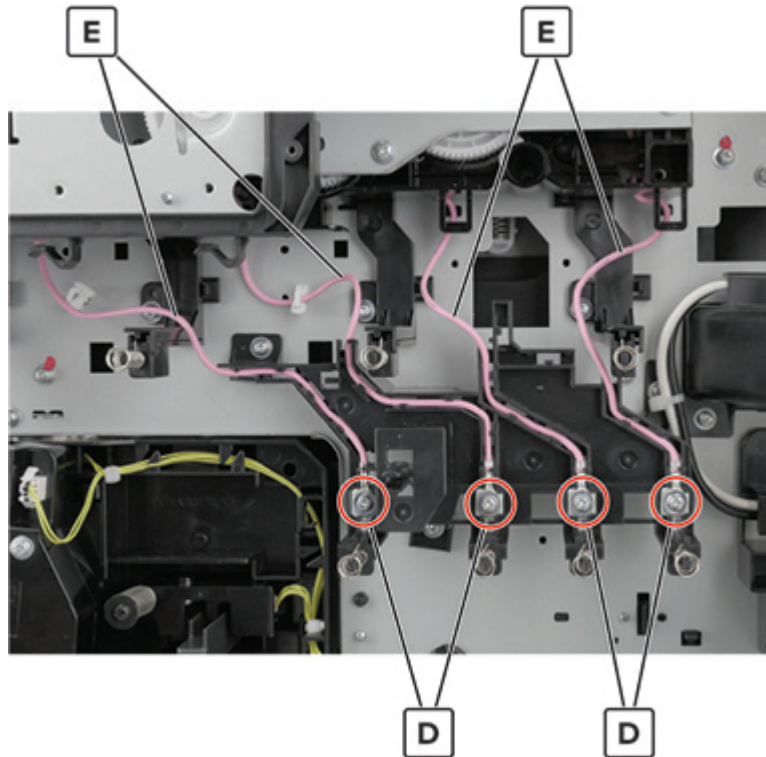
Main drive assembly removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).

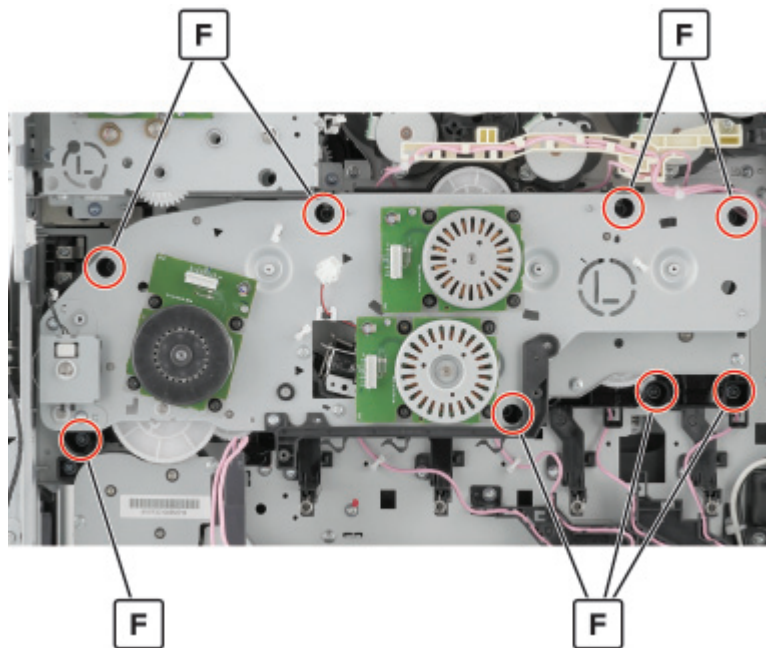
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 5 Remove the port access door. See [“Port access door removal” on page 432.](#)
- 6 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 7 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 8 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 9 Remove the expansion controller board. See [“Expansion controller board removal” on page 607.](#)
- 10 Remove the HVPS. See [“High voltage board removal” on page 627.](#)
- 11 Remove the center guide bracket. See [“Center guide bracket removal” on page 609.](#)
- 12 Disconnect the two cables (A), remove the two screws (B), and then remove the cable guide (C).



- 13** Remove the four screws (D), and then remove the four cables (E) from the cable guides.



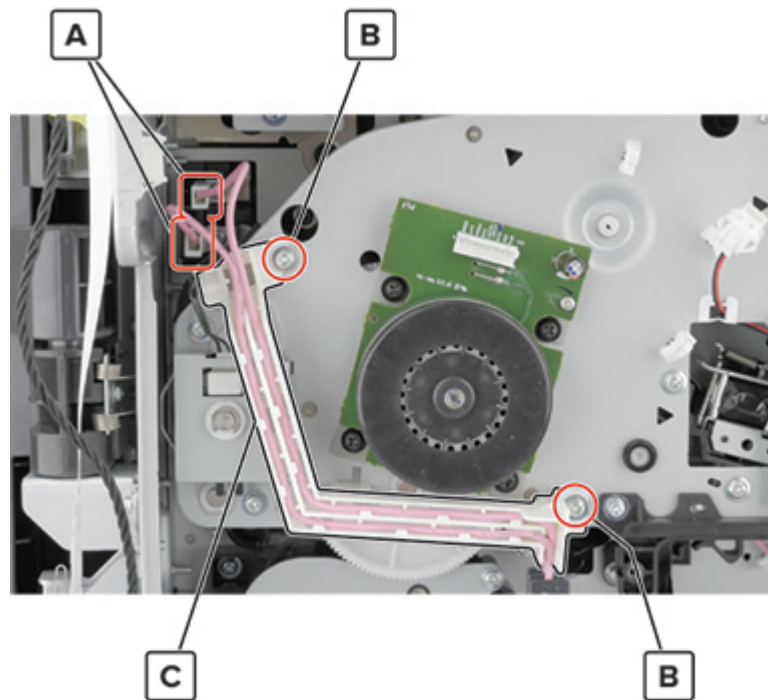
- 14** Remove the eight screws (F), and then remove the main drive assembly.



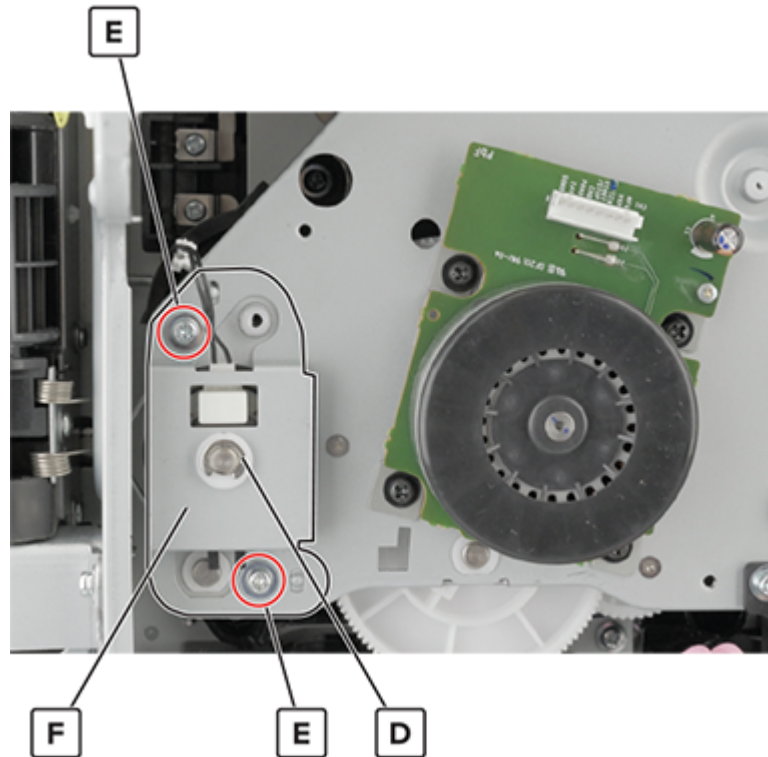
Duplex clutch removal

- 1** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).

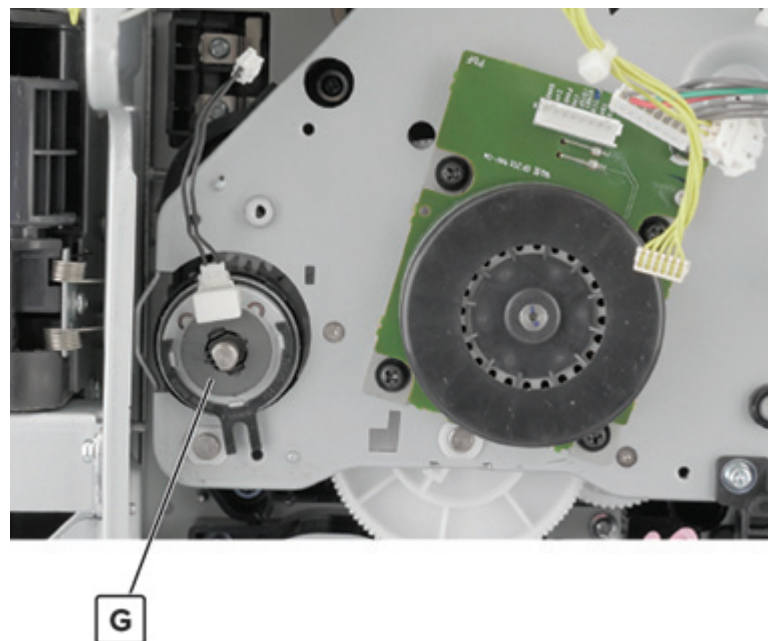
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 5 Remove the port access door. See [“Port access door removal” on page 432.](#)
- 6 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 7 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 8 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 9 Remove the expansion controller board. See [“Expansion controller board removal” on page 607.](#)
- 10 Remove the HVPS. See [“High voltage board removal” on page 627.](#)
- 11 Remove the center guide bracket. See [“Center guide bracket removal” on page 609.](#)
- 12 Disconnect the two cables (A), remove the two screws (B), and then remove the cable guide (C).



- 13** Remove the E-clip (D), remove the two screws (E), and then remove the bracket (F).



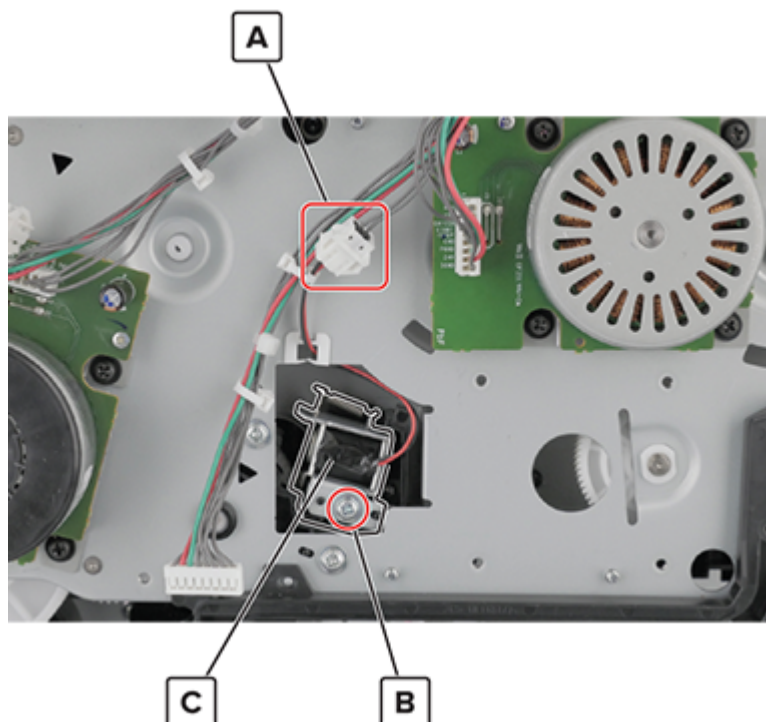
- 14** Remove the clutch (G).



K developer solenoid removal

- 1** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).

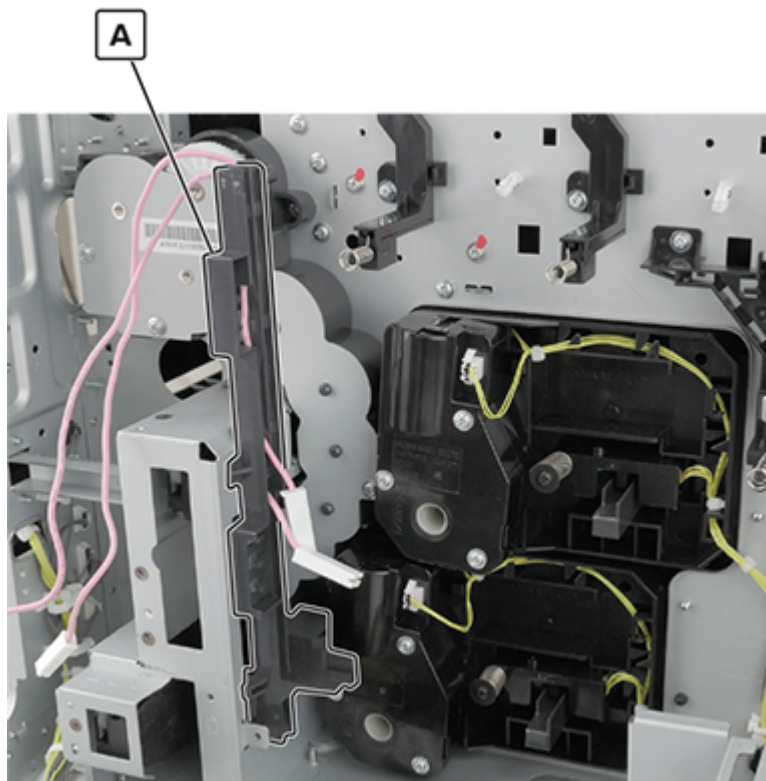
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 5 Remove the port access door. See [“Port access door removal” on page 432.](#)
- 6 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 7 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 8 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 9 Remove the motor (transport). See [“Motor \(transport\) removal” on page 631.](#)
- 10 Disconnect the cable (A), remove the screw (B), and then remove the clutch (C).



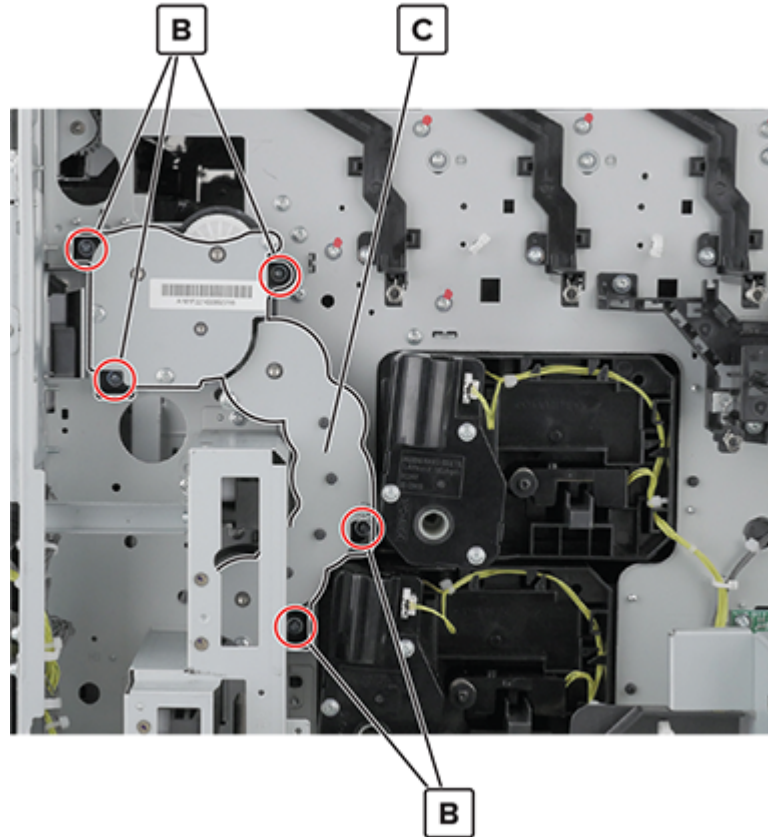
Feed drive assembly removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 5 Remove the port access door. See [“Port access door removal” on page 432.](#)
- 6 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 7 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 8 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 9 Remove the expansion controller board. See [“Expansion controller board removal” on page 607.](#)

- 10 Remove the HVPS. See [“High voltage board removal” on page 627.](#)
- 11 Remove the main drive assembly. See [“Main drive assembly removal” on page 654.](#)
- 12 Remove the cable guide (A).



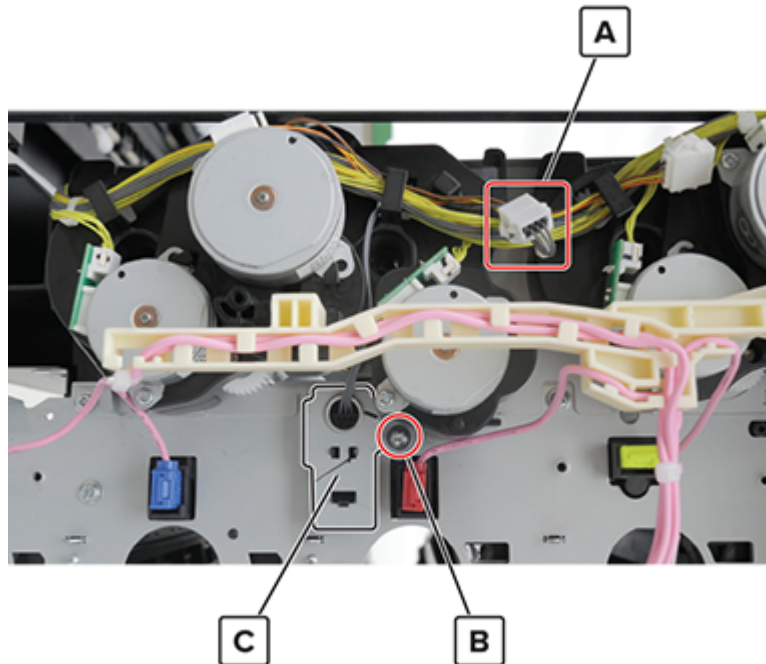
- 13** Remove the five screws (B), and then remove the feed drive assembly (C).



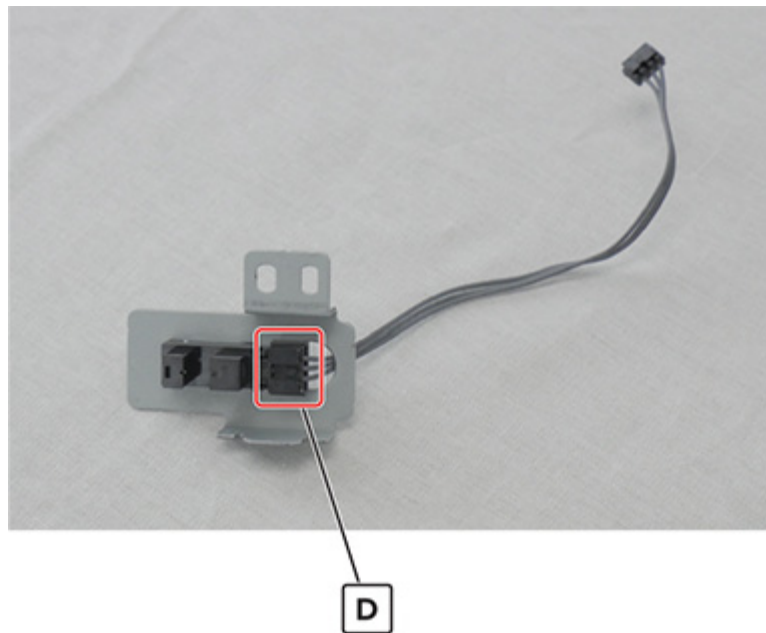
First transfer pressure sensor cable removal

- 1** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3** Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 4** Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 5** Remove the port access door. See [“Port access door removal” on page 432.](#)
- 6** Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 7** Remove the port mount. See [“Port mount removal” on page 433.](#)
- 8** Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 9** Remove the expansion controller board. See [“Expansion controller board removal” on page 607.](#)
- 10** Remove the HVPS. See [“High voltage board removal” on page 627.](#)
- 11** Remove the main drive assembly. See [“Main drive assembly removal” on page 654.](#)

- 12** Disconnect the cable (A), remove the screw (B), and then remove the bracket (C).



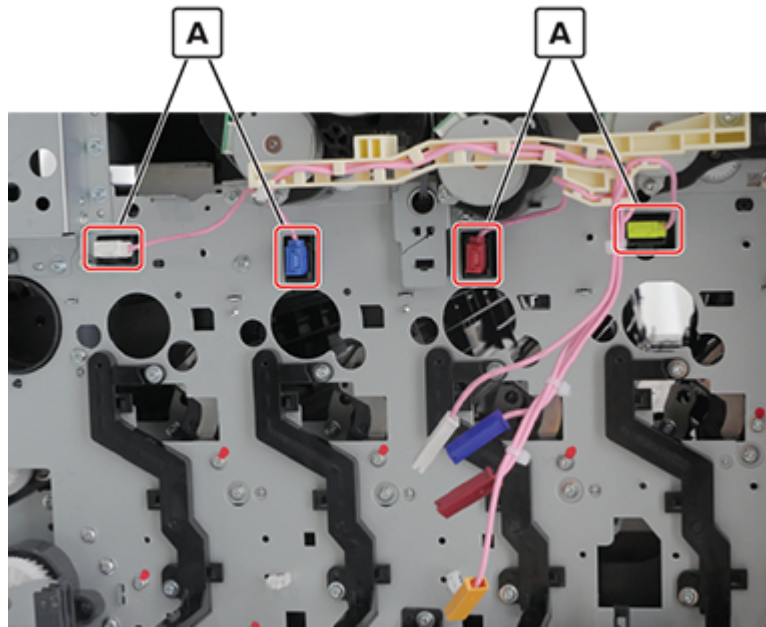
- 13** Disconnect the cable (D).



Transfer belt charge cable removal

- 1** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3** Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).

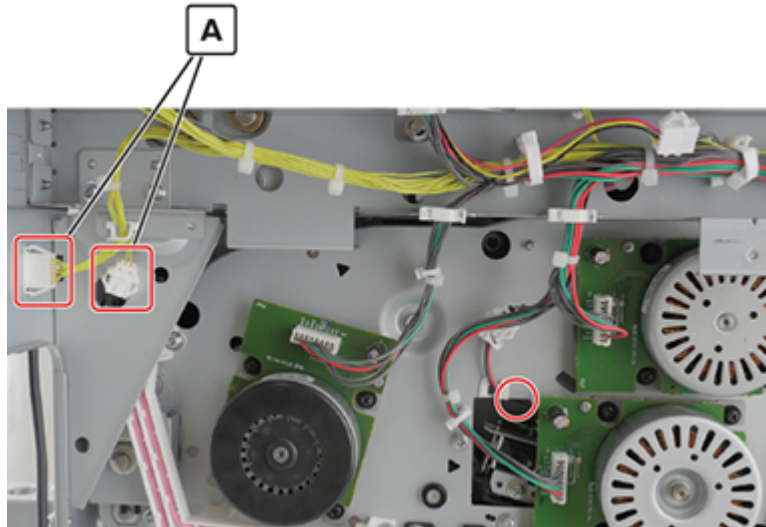
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 5 Remove the port access door. See [“Port access door removal” on page 432](#).
- 6 Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 7 Remove the port mount. See [“Port mount removal” on page 433](#).
- 8 Open the controller board frame. See [“Controller board frame removal” on page 618](#).
- 9 Remove the expansion controller board. See [“Expansion controller board removal” on page 607](#).
- 10 Remove the HVPS. See [“High voltage board removal” on page 627](#).
- 11 Remove the main drive assembly. See [“Main drive assembly removal” on page 654](#).
- 12 Disconnect the four cables (A), and then remove the cables from the cable guides.



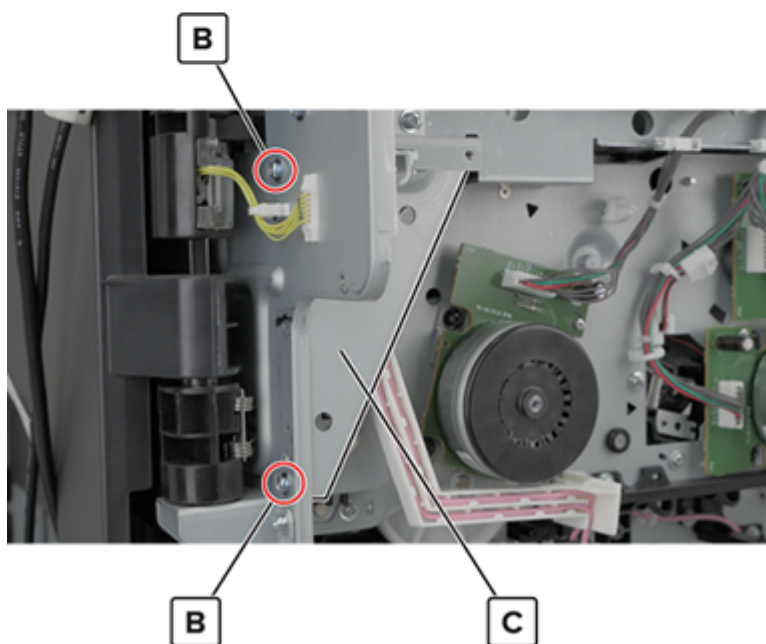
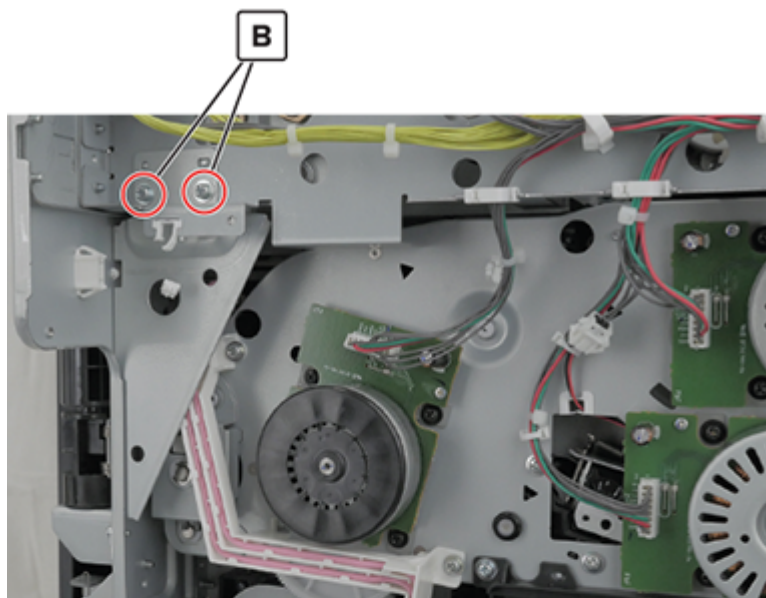
High voltage transfer and charge cables removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the port access door. See [“Port access door removal” on page 432](#).
- 3 Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 4 Remove the port mount. See [“Port mount removal” on page 433](#).
- 5 Open the controller board frame. See [“Controller board frame removal” on page 618](#).

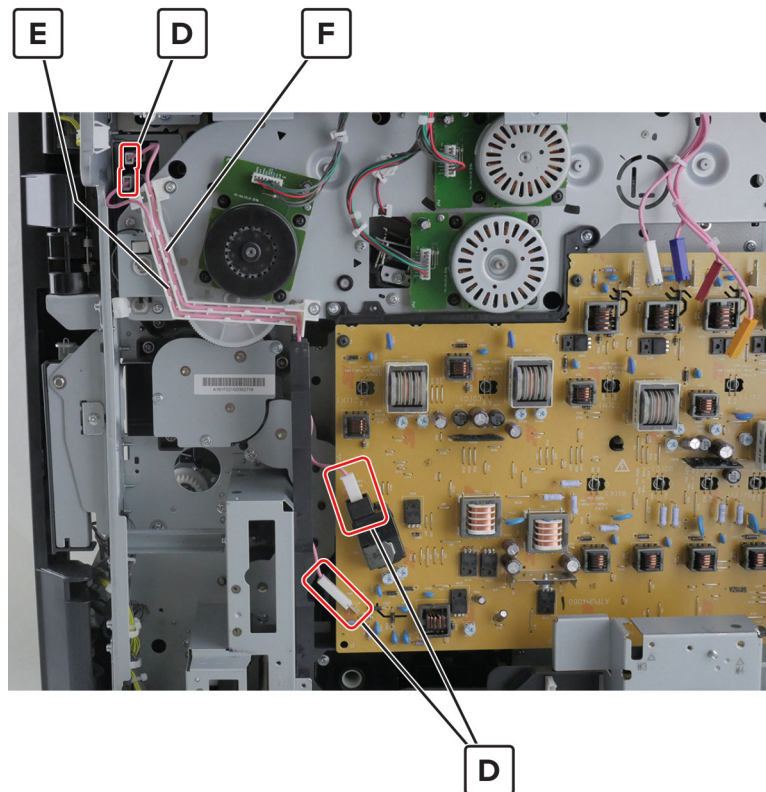
6 Disconnect the two cables (A).



- 7 Remove the four screws (B), and then remove the bracket (C).



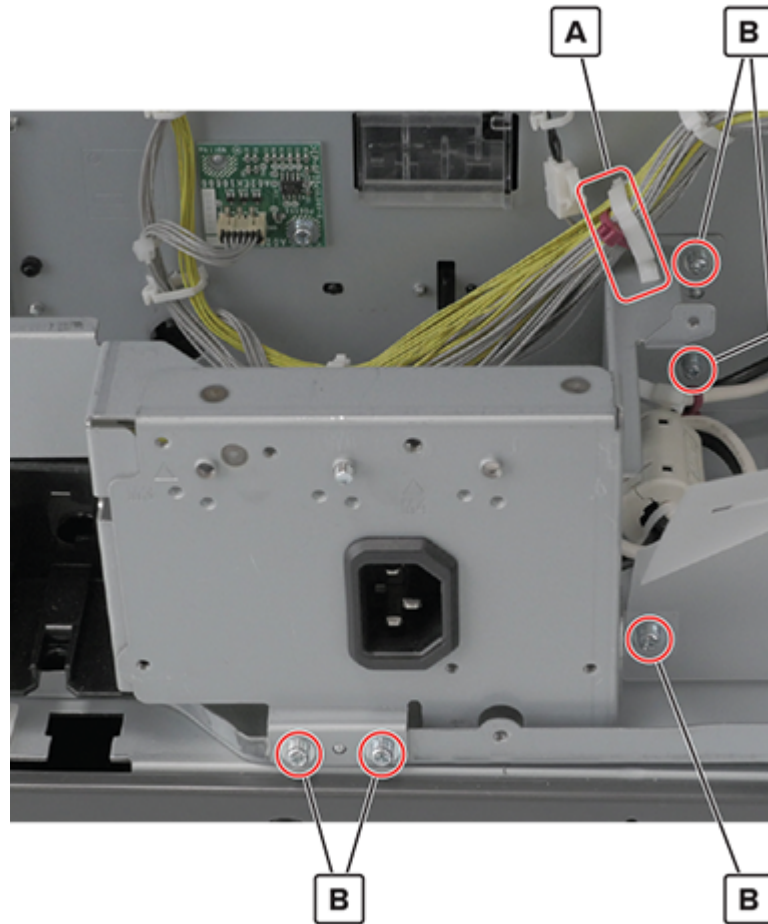
- 8 Disconnect the four connectors (D), and then remove the high voltage transfer cable (E) and high voltage charge cable (F) from the cable guides.



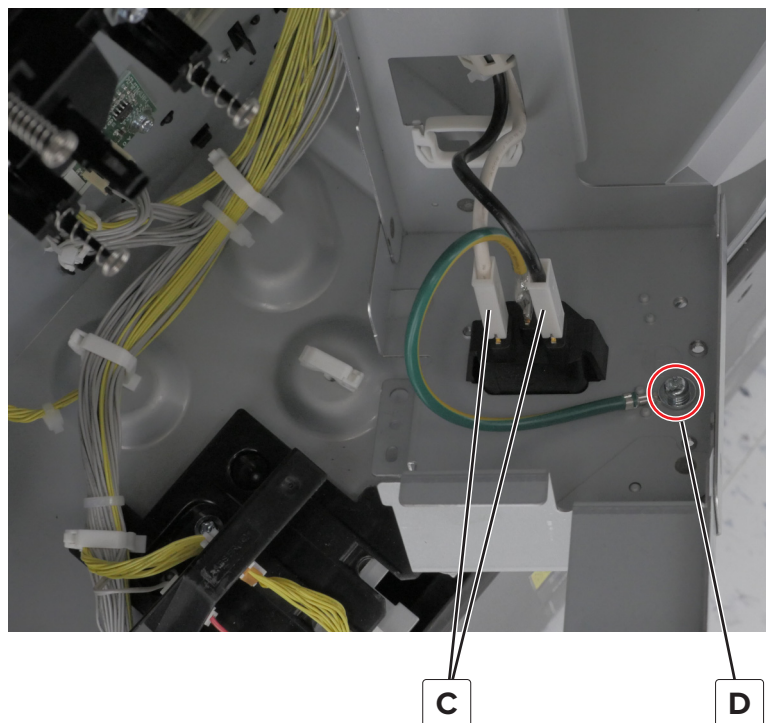
Power socket removal

- 1 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2 Remove the controller board shield. See [“Controller board shield removal” on page 613](#).
- 3 Remove the controller board. See [“Controller board removal” on page 613](#).
- 4 Open the controller board frame.

- 5 Release the cable guide (A), remove the five screws (B), and then pull the mounting plate.



- 6** Disconnect the two cables (C) at the back of the mounting plate, and then remove the ground screw (D).

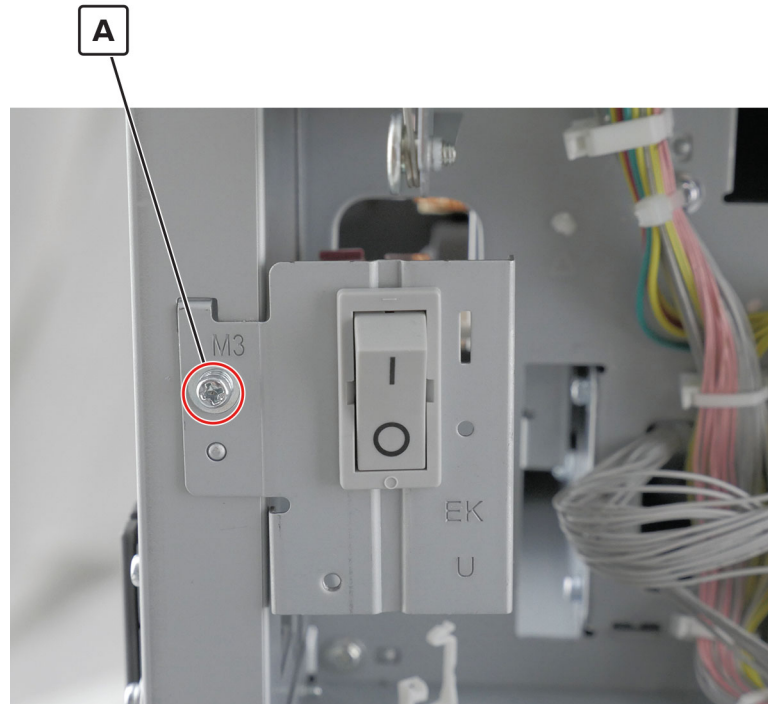


- 7** Remove the socket from the power socket mounting plate.

Power socket cable removal

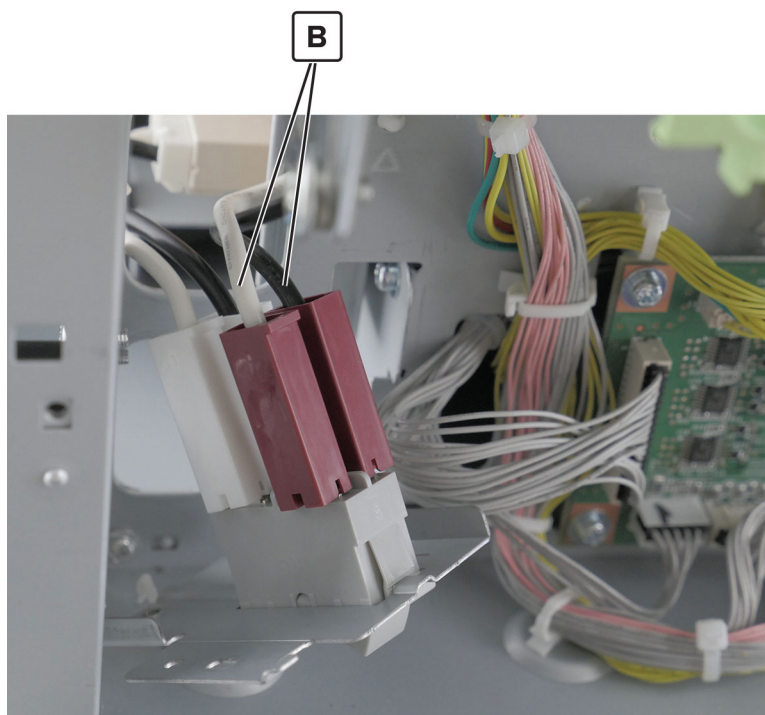
- 1** Remove the front door. See [“Front door removal” on page 541.](#)
- 2** Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 3** Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 4** Remove the left cover. See [“Left cover removal” on page 415.](#)
- 5** Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 6** Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 7** Remove the power supply fan duct. See [“Main power supply fan removal” on page 420.](#)
- 8** Remove the power supply board bracket. See [“Main power supply removal” on page 423.](#)
- 9** Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 10** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 11** Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 12** Remove the port access door. See [“Port access door removal” on page 432.](#)
- 13** Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 14** Remove the port mount. See [“Port mount removal” on page 433.](#)
- 15** Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)

- 16 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 17 Remove the upper rear cover. See [“Upper rear cover removal” on page 604](#).
- 18 Remove the controller board shield. See [“Controller board shield removal” on page 613](#).
- 19 Open the controller board frame. See [“Controller board frame removal” on page 618](#).
- 20 Remove the high voltage board. See [“High voltage board removal” on page 627](#).
- 21 Remove the screw (A), and then pull the bracket.

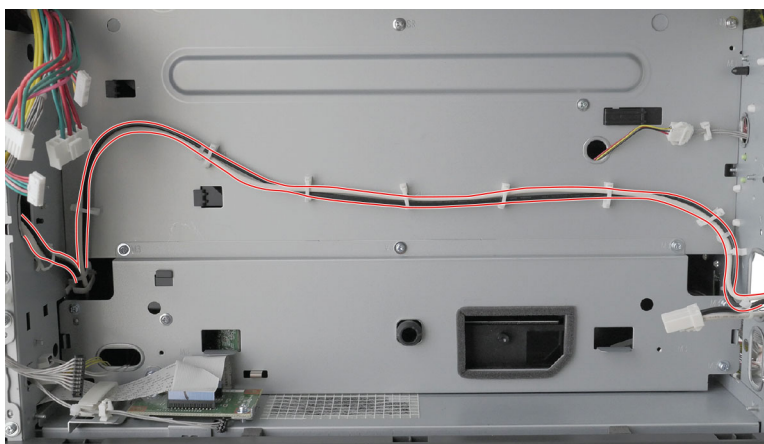


- 22 Disconnect the two cables (B).

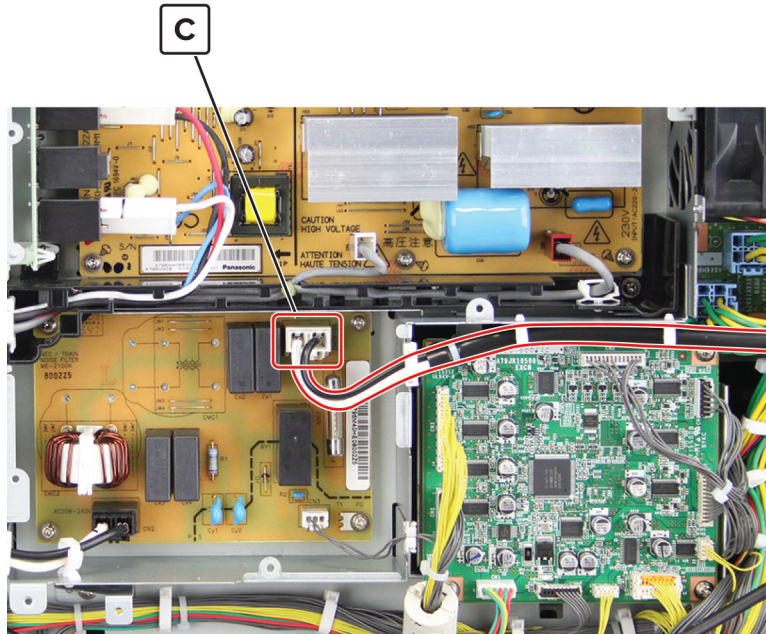
Installation warning: Take note of the proper connections of the white and black cables (B), including the positions of the white and red connectors.



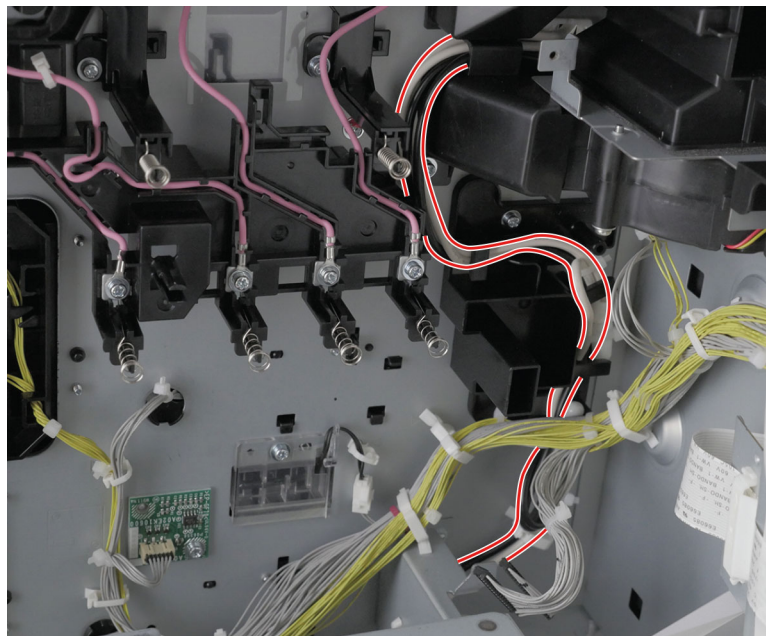
23 Release the cables from their guides.



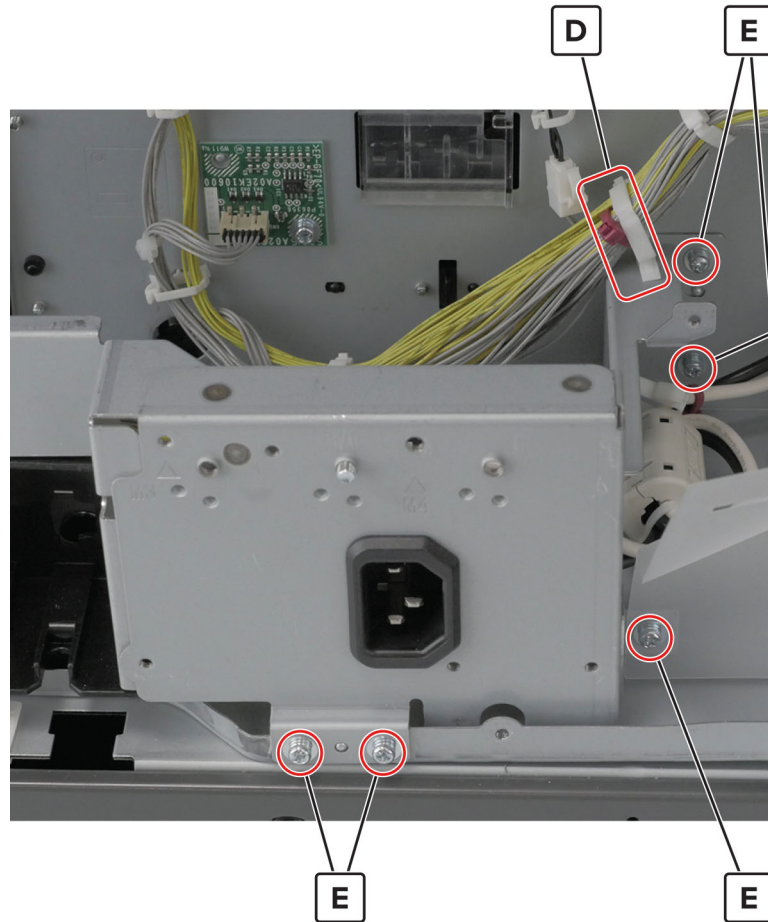
24 Disconnect the cable (C) from the rear side, and then release it from its guides.



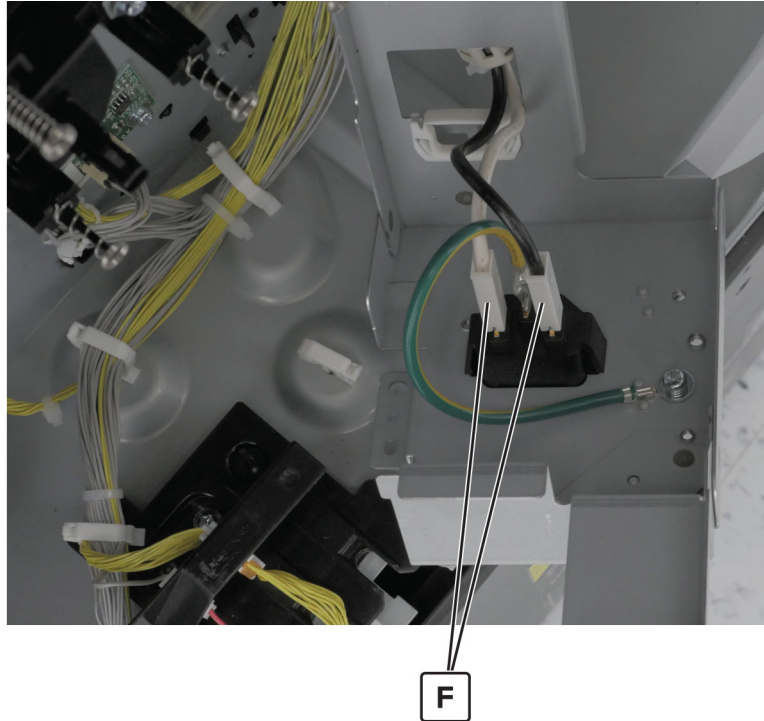
25 Release the cables from their guides.



26 Release the cable guide (D), remove the five screws (E), and then pull the bracket.



- 27** Disconnect the two cables (F) at the back of the bracket, and then release them from their guides.



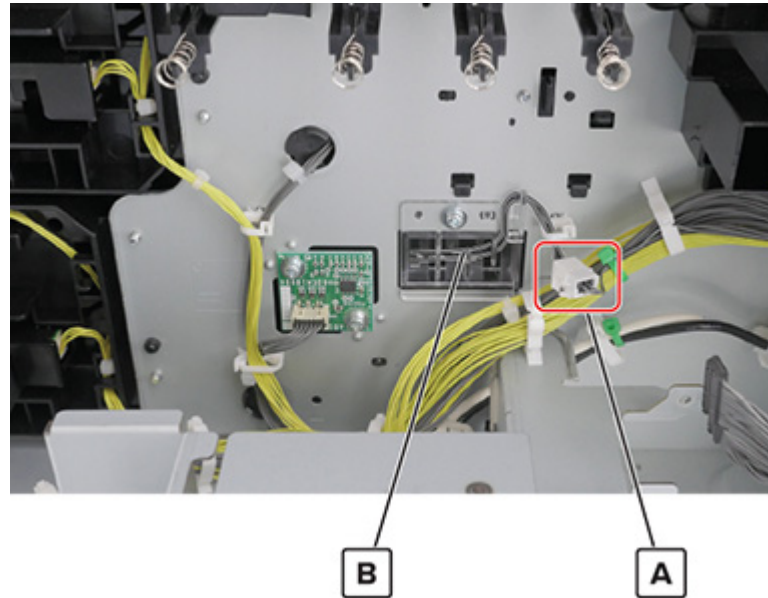
- 28** Remove the cable.

Installation note: Make sure that the cable is properly routed.

Sensor (tray 1 and tray 2 paper temperature) removal

- 1** Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 2** Remove the port access door. See [“Port access door removal” on page 432](#).
- 3** Remove the port cable guide. See [“Port cable guide removal” on page 429](#).
- 4** Remove the port mount. See [“Port mount removal” on page 433](#).
- 5** Open the controller board frame. See [“Controller board frame removal” on page 618](#).
- 6** Remove the HVPS. See [“High voltage board removal” on page 627](#).
- 7** Remove the screw (A), and then remove the clear cover.

- 8 Disconnect the cable (B), and then remove the sensor (C).



High voltage contact removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Remove the upper rear cover. See [“Upper rear cover removal” on page 604.](#)
- 4 Remove the lower rear cover. See [“Lower rear cover removal” on page 606.](#)
- 5 Remove the port access door. See [“Port access door removal” on page 432.](#)
- 6 Remove the port cable guide. See [“Port cable guide removal” on page 429.](#)
- 7 Remove the port mount. See [“Port mount removal” on page 433.](#)
- 8 Open the controller board frame. See [“Controller board frame removal” on page 618.](#)
- 9 Remove the expansion controller board. See [“Expansion controller board removal” on page 607.](#)
- 10 Remove the HVPS. See [“High voltage board removal” on page 627.](#)
- 11 Remove the main drive assembly. See [“Main drive assembly removal” on page 654.](#)
- 12 Remove the two screws (A), and then remove the contact (B).

Note: There are four contacts. Remove only the damaged contact.



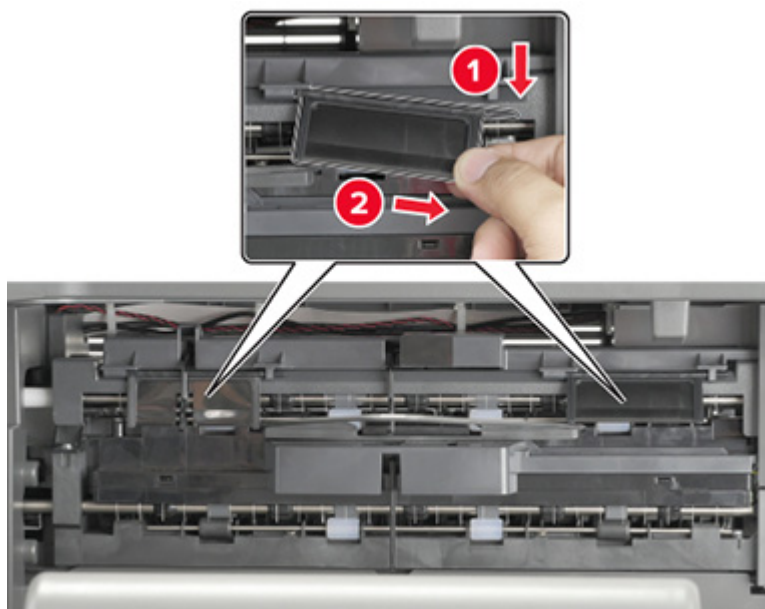
Parts removal

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Top side removals

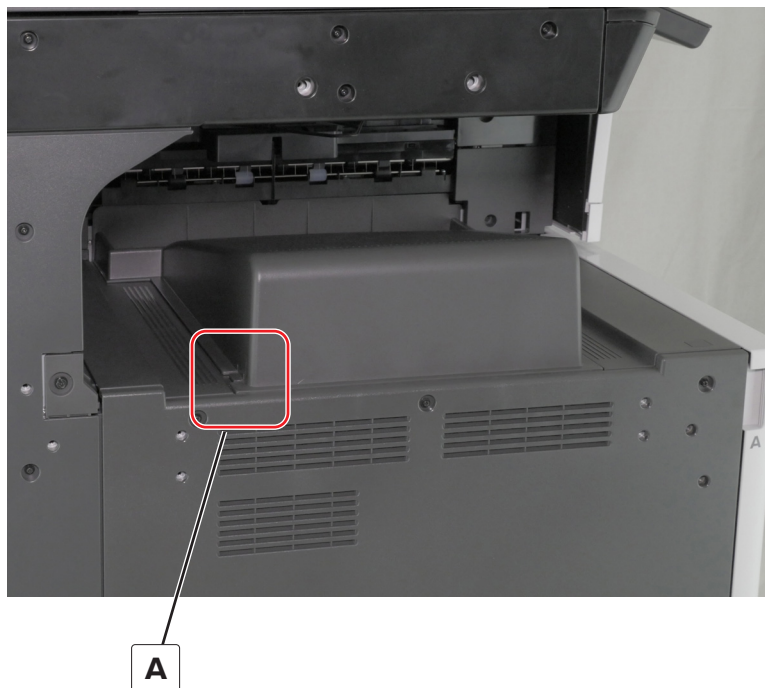
HPT bin paper bail removal

- 1 Pull down the bail to detach it.
- 2 Remove the bail.



Standard bin removal

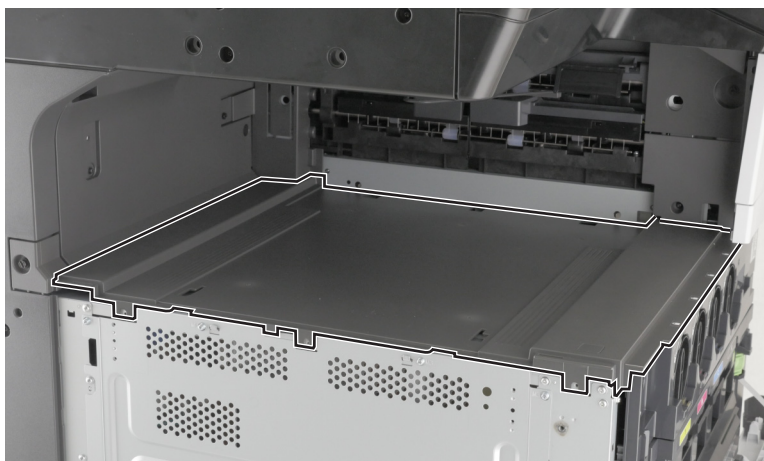
- 1 Release the latch (A).



- 2 Remove the bin.

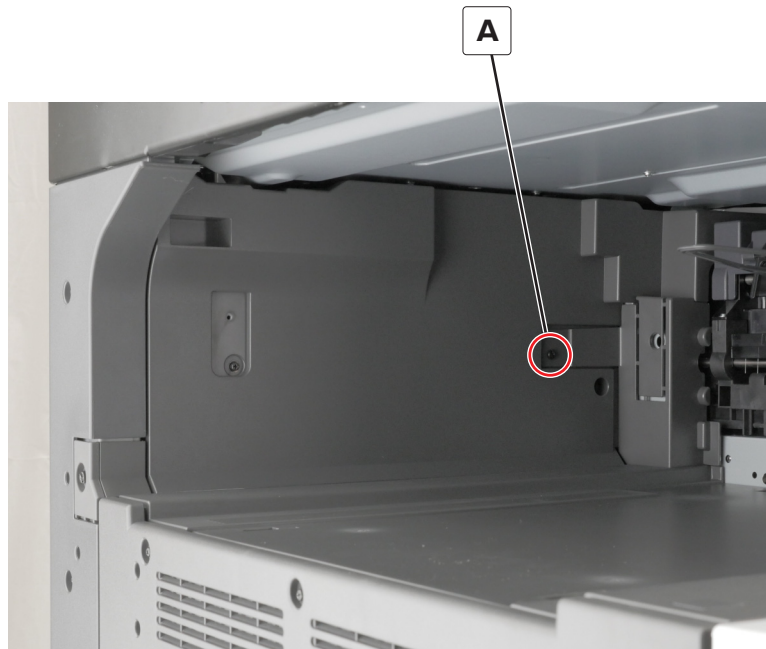
Standard bin base removal

- 1 Remove the left cover. See [“Left cover removal” on page 415.](#)
- 2 Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 3 Open the front door, and then remove the cover.



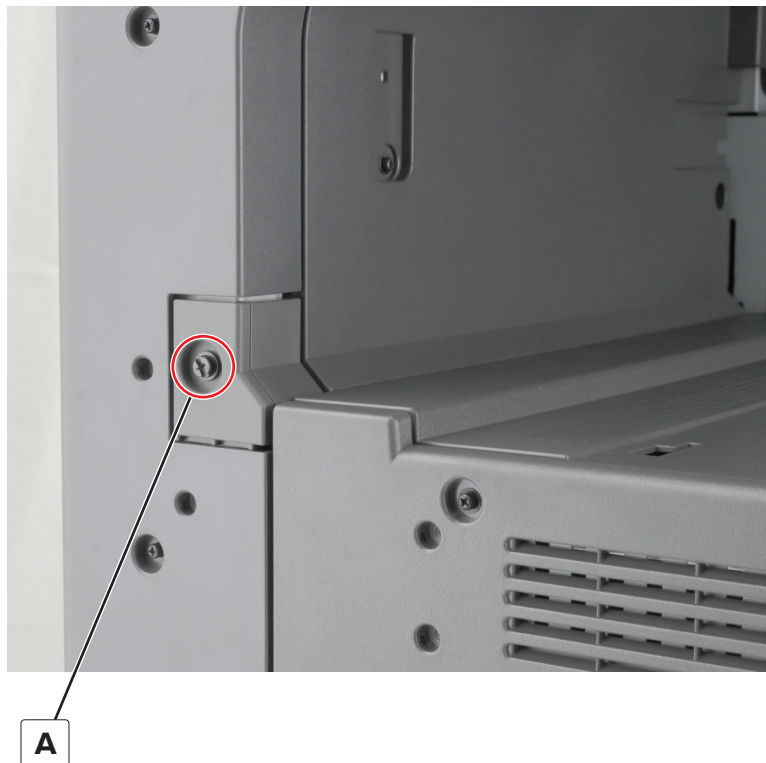
Right bin side cover removal

- 1 Remove the standard bin. See [“Standard bin removal” on page 677](#).
- 2 Remove the screw (A), and then remove the cover.



Top corner cover removal

- 1 Remove the screw (A).

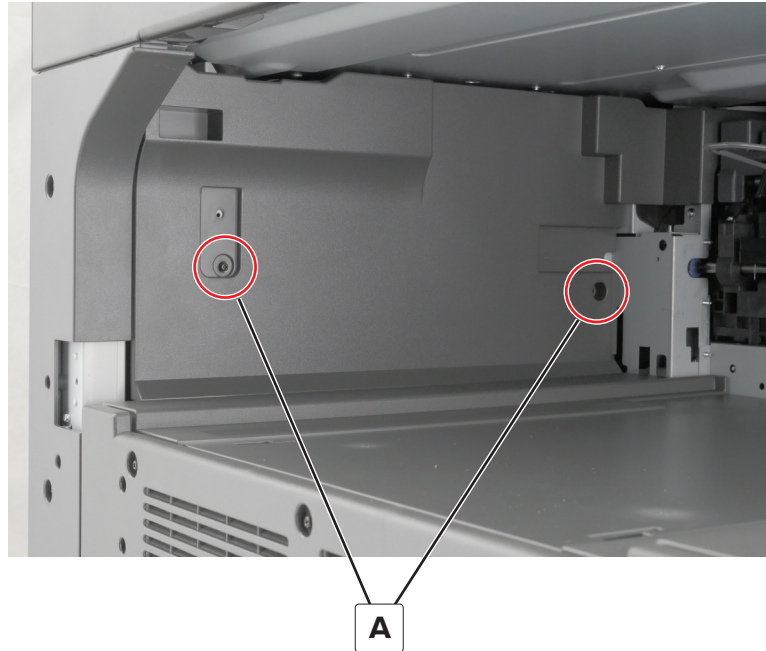


- 2 Remove the cover.

Bin side cover removal

- 1 Remove the right bin side cover. See [“Right bin side cover removal” on page 678](#).
- 2 Remove the top corner cover. See [“Top corner cover removal” on page 679](#).

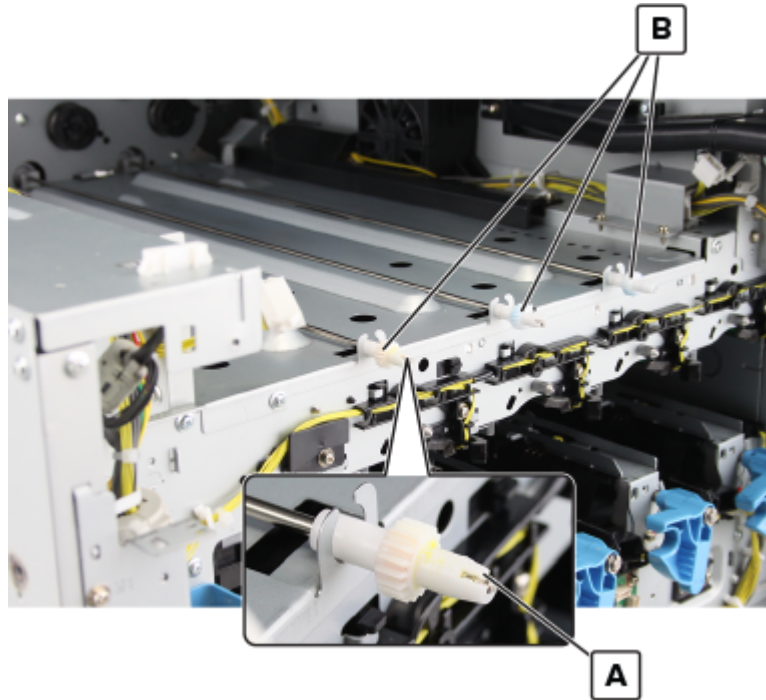
- 3** Remove the two screws (A), and then remove the cover.



Toner supply gear 2 removal

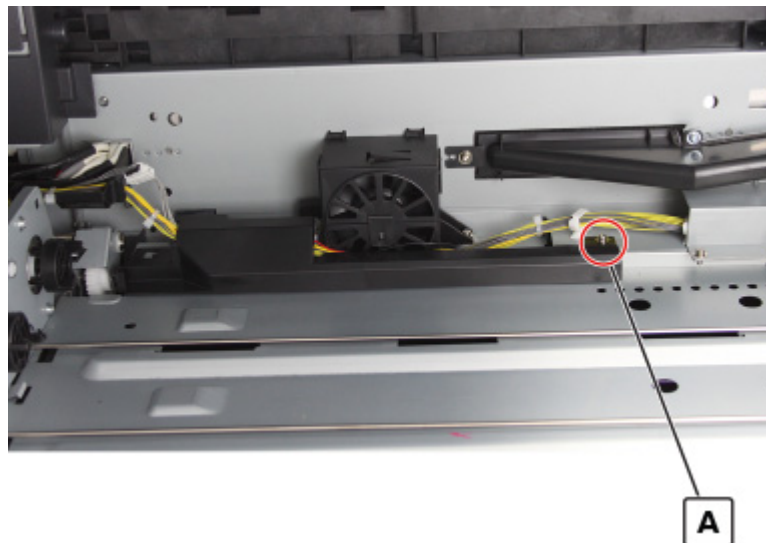
- 1** Remove the front door. See [“Front door removal” on page 541.](#)
- 2** Remove the left cover. See [“Left cover removal” on page 415.](#)
- 3** Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 4** Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)
- 5** Remove the front inner cover. See [“Front inner cover removal” on page 571.](#)
- 6** Remove the waste toner door mount. See [“Waste toner door mount removal” on page 572.](#)
- 7** Remove the toner agitator. See [“Toner agitator removal” on page 592.](#)

- 8 Release the appropriate latch (A), and then remove the gear (B).



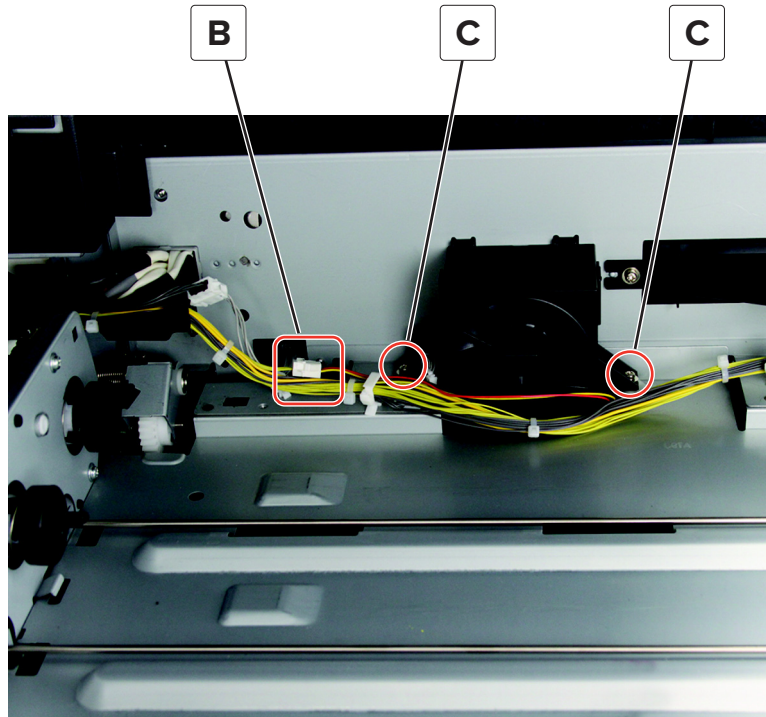
Toner cartridge cooling fan removal

- 1 Remove the left cover. See [“Left cover removal” on page 415](#).
- 2 Remove the standard bin. See [“Standard bin removal” on page 677](#).
- 3 Remove the standard bin base. See [“Standard bin base removal” on page 677](#).
- 4 Remove the screw (A), and then remove the cover.



- 5 Disconnect the cable (B), and then release it from its guide.

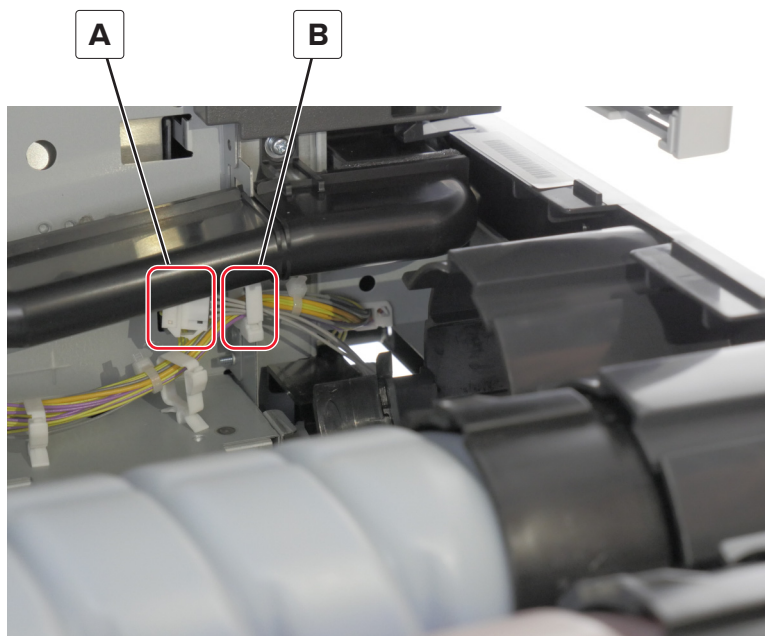
- 6** Remove the two screws (C), and then remove the fan.



K toner supply motor cable removal

- 1** Remove the left cover. See [“Left cover removal” on page 415.](#)
- 2** Remove the standard bin. See [“Standard bin removal” on page 677.](#)
- 3** Remove the standard bin base. See [“Standard bin base removal” on page 677.](#)

- 4** Disconnect the cable (A), and then release it from the guide (B).



- 5** Disconnect the motor cable, and then remove it.

Bottom side removals

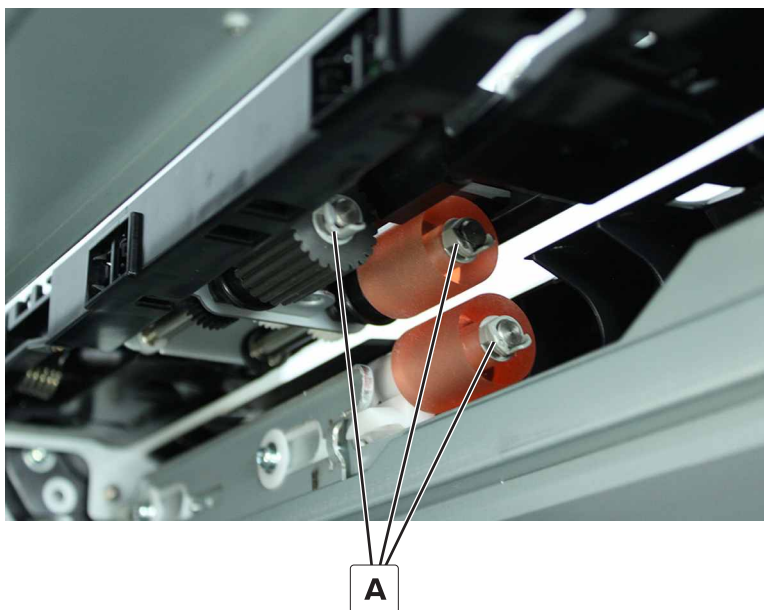
Tray rollers removal

- 1 Remove tray 1 and tray 2, and then open the right door.



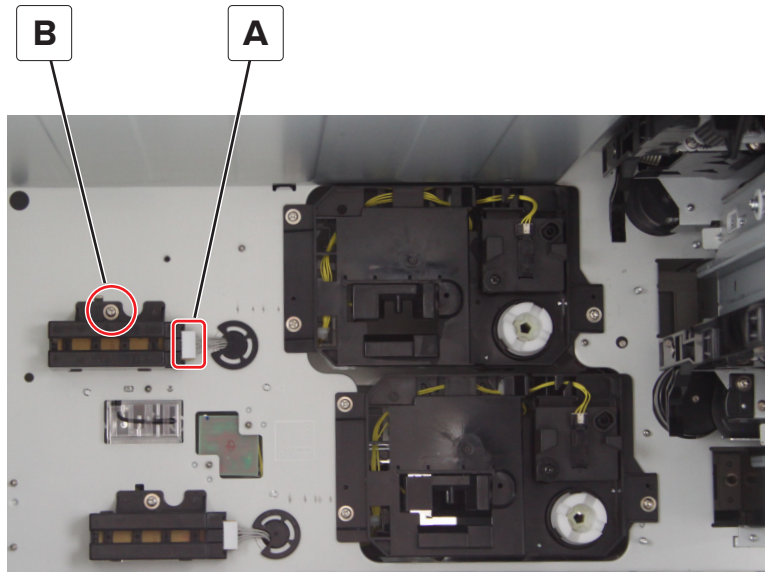
CAUTION—HOT SURFACE: The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching it.

- 2 Release the appropriate clip (A), and then remove the pick roller, feed roller, or separator roller.



Sensor (tray 1 paper length) removal

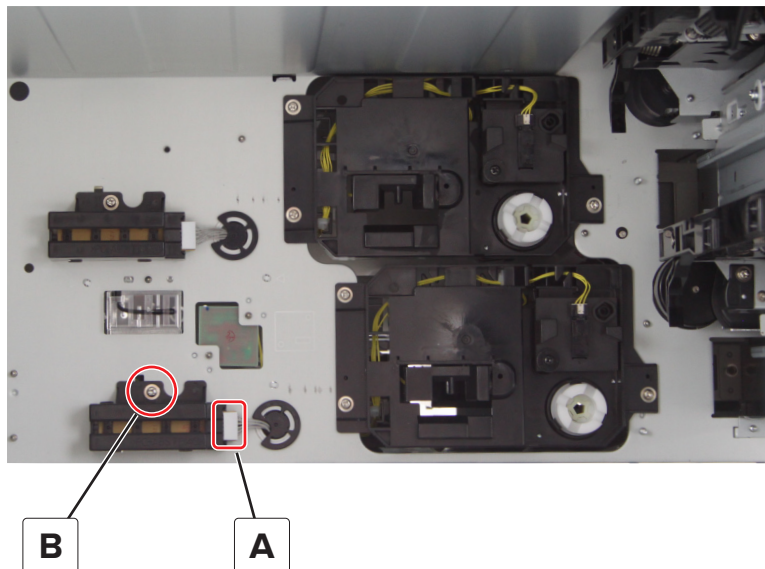
- 1 Remove tray 1 and tray 2.
- 2 Disconnect the cable (A), and then remove the screw (B).



- 3 Remove the sensor housing, and then remove the sensor.

Sensor (tray 2 paper length) removal

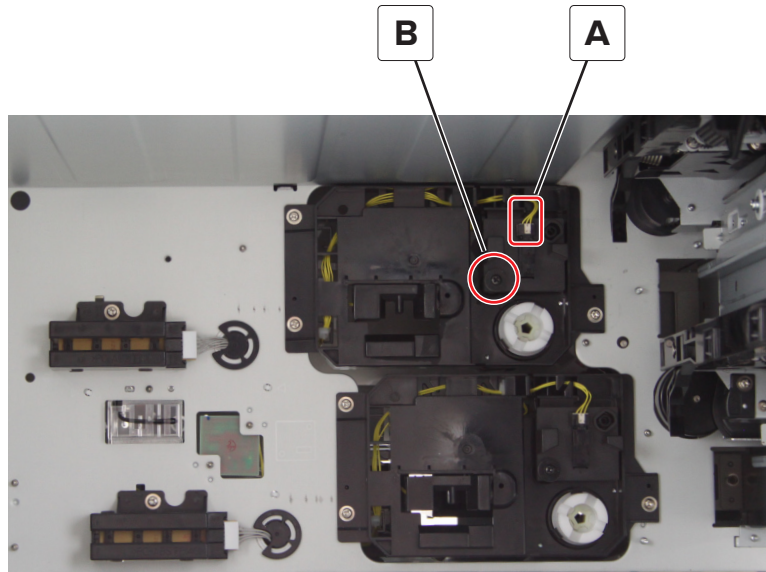
- 1 Remove tray 1 and tray 2.
- 2 Disconnect the cable (A), and then remove the screw (B).



- 3 Remove the sensor housing, and then remove the sensor.

Sensor (tray 1 near empty) removal

- 1 Remove tray 1 and tray 2.
- 2 Disconnect the cable (A), and then remove the screw (B).

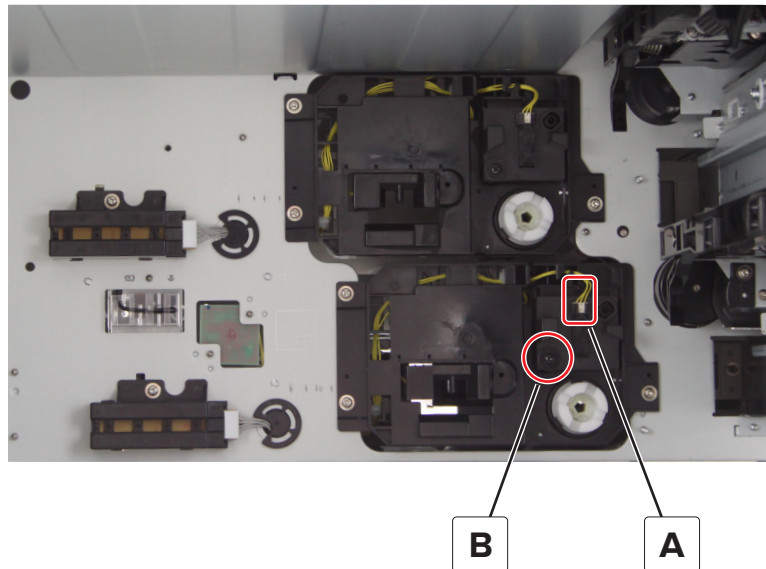


- 3 Remove the sensor housing, and then remove the sensor.

Warning—Potential Damage: Do not lose the spring.

Sensor (tray 2 near empty) removal

- 1 Remove tray 1 and tray 2.
- 2 Disconnect the cable (A), and then remove the screw (B).

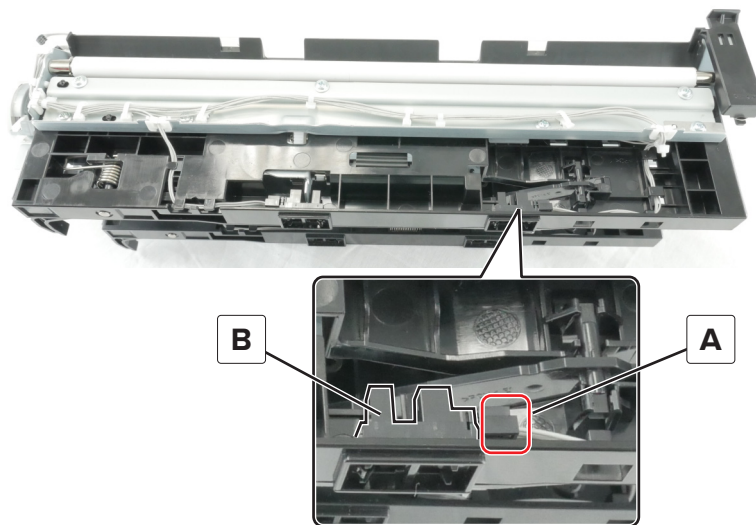


- 3 Remove the sensor housing, and then remove the sensor.

Warning—Potential Damage: Do not lose the spring.

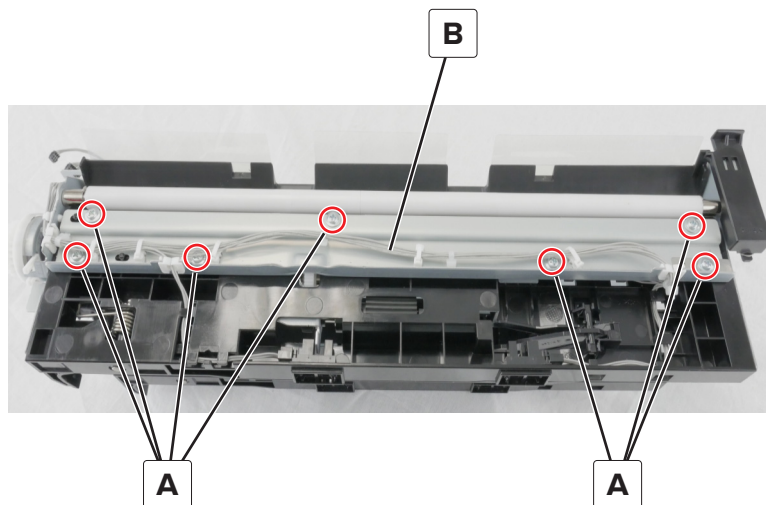
Sensor (tray 1 empty) removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Disconnect the cable (A), and then remove the sensor (B).

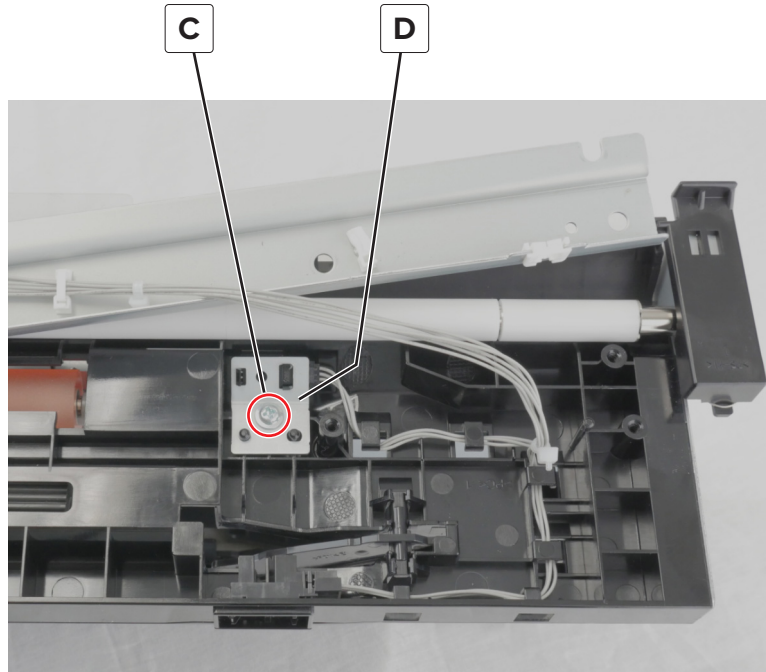


Sensor (tray 1 feed) removal

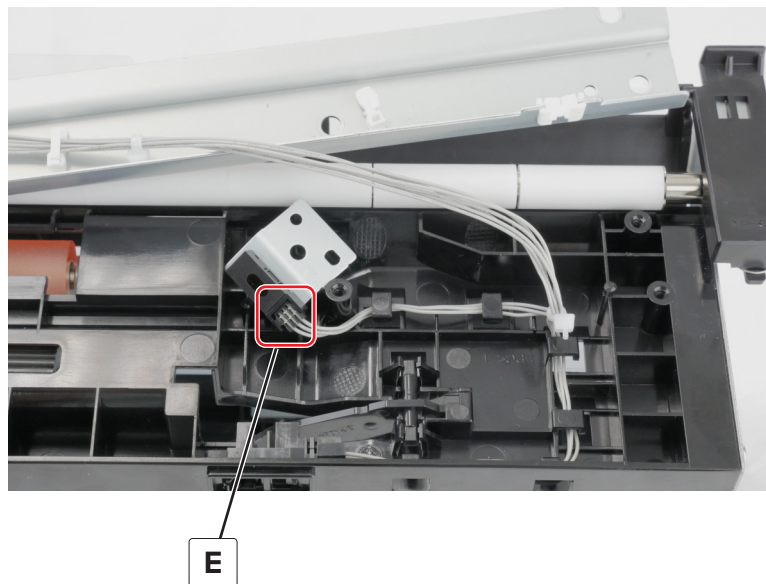
- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the seven screws (A), and then remove the cable (B) from the cable guides.



- 3** Remove the screw (C), and then remove the bracket (D).

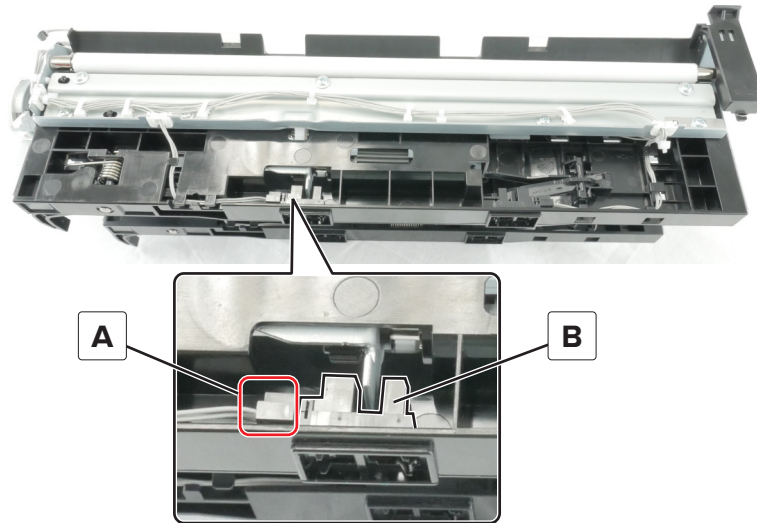


- 4** Disconnect the cable (E), and then remove the sensor from the bracket.



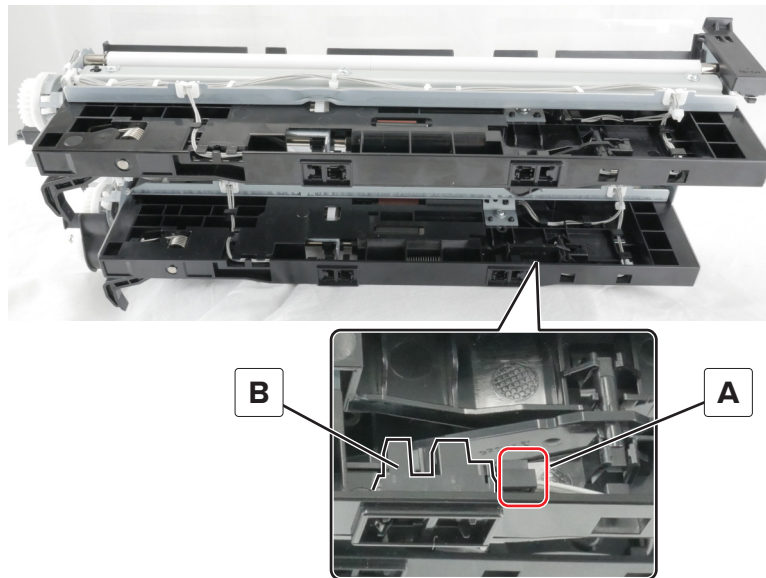
Sensor (tray 1 lift plate level) removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Disconnect the cable (A), and then remove the sensor (B).



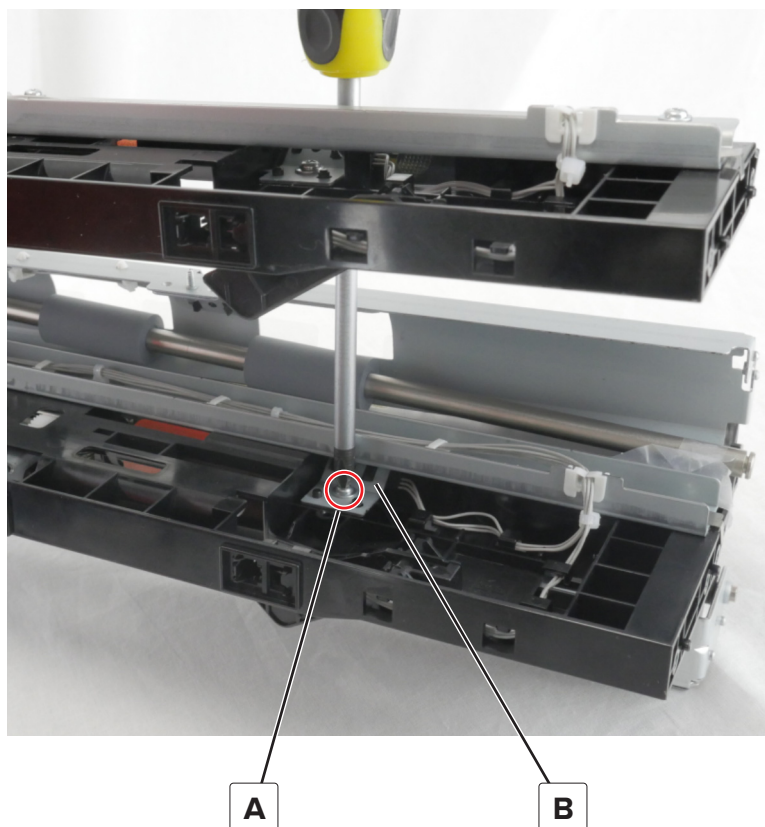
Sensor (tray 2 empty) removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Disconnect the cable (A), and then remove the sensor (B).

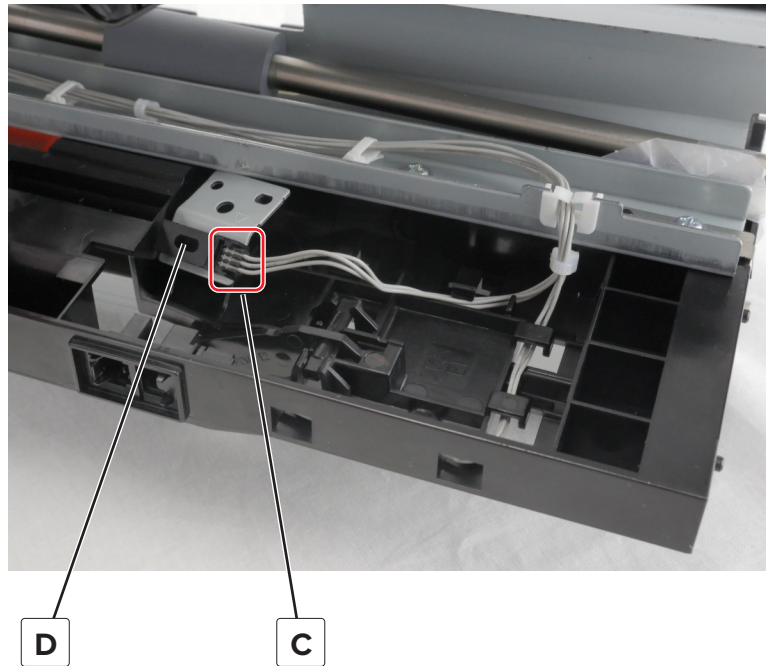


Sensor (tray 2 feed) removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the tray 1 separator and transport guide assembly. See [“Tray 1 separator and transport guide assembly removal” on page 706.](#)
- 3 Remove the screw (A), and then remove the bracket (B).

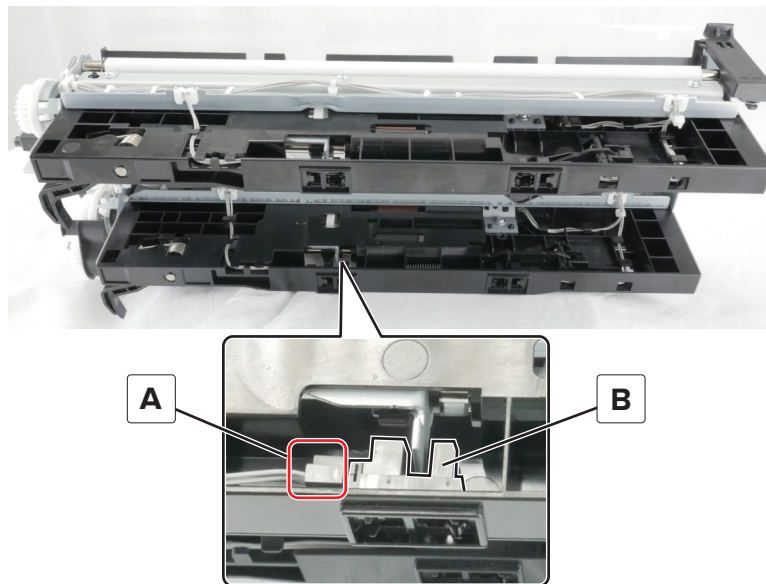


- 4 Disconnect the cable (C), and then remove the sensor (D).



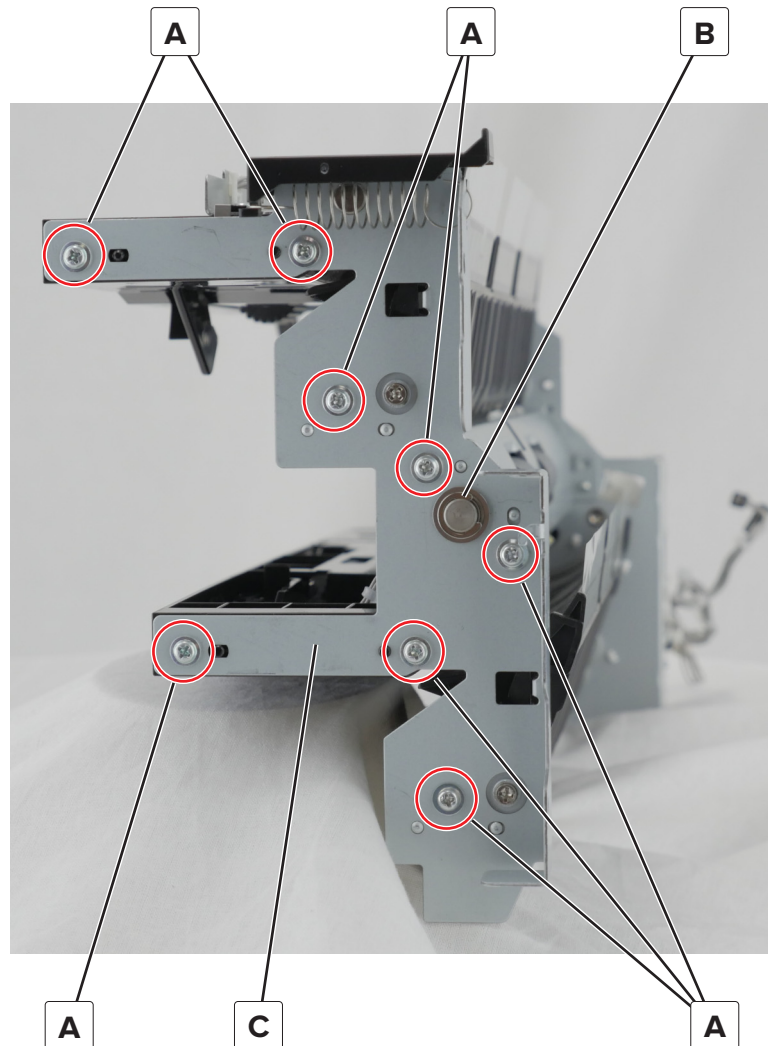
Sensor (tray 2 lift plate level) removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Disconnect the cable (A), and then remove the sensor (B).

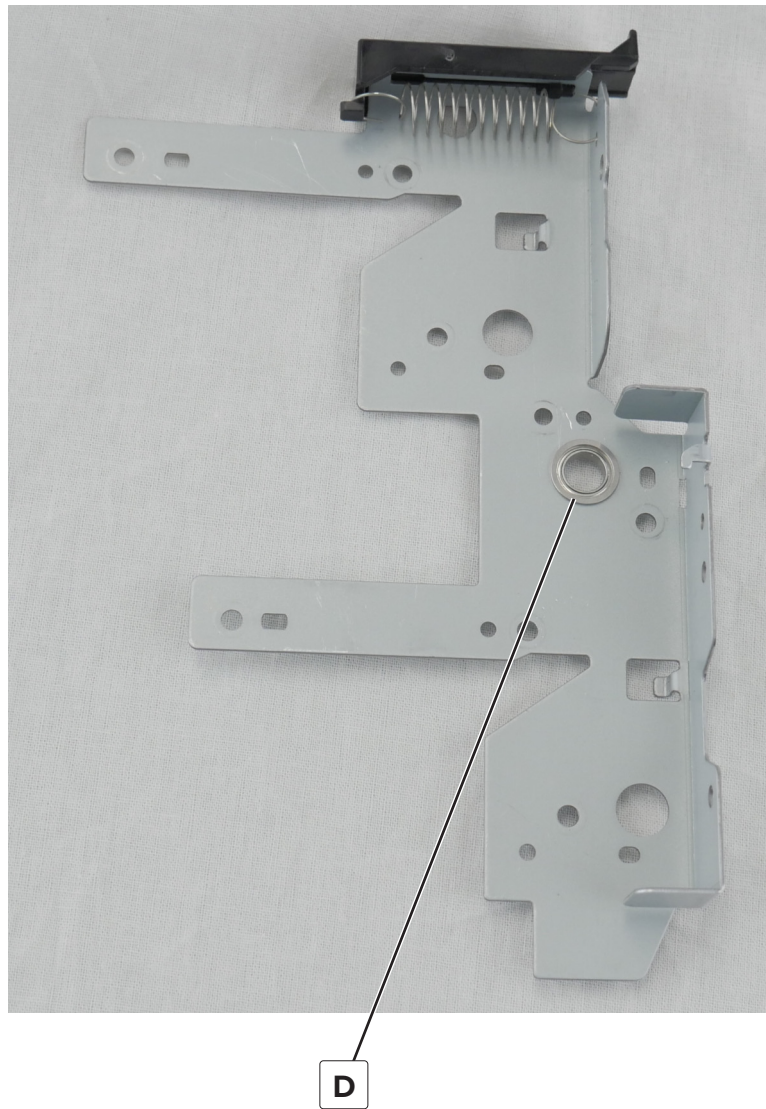


Sensor (tray 2 transport) removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the eight screws (A), remove the E-clip (B), and then remove the bracket (C).

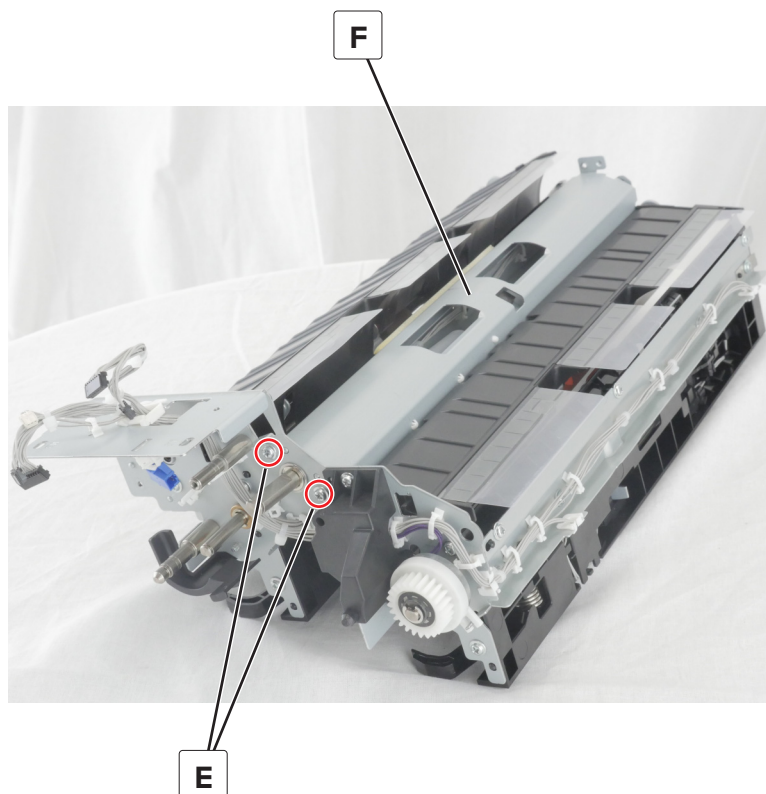


Warning—Potential Damage: Do not lose the bushing (D).

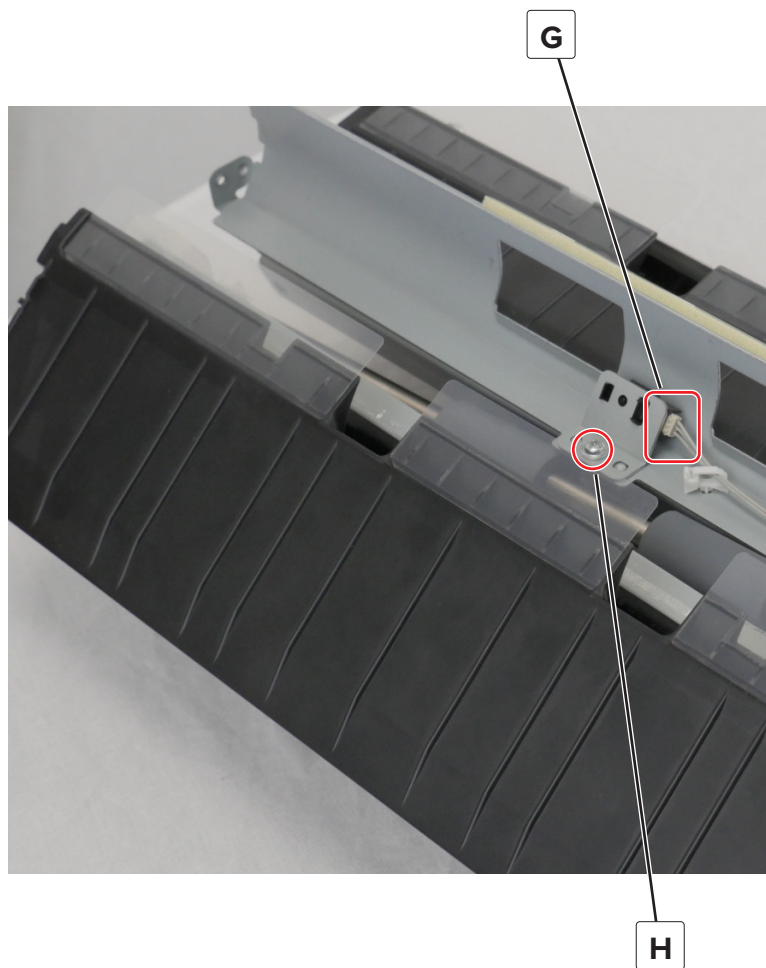


- 3** Remove the tray 2 transport gear. See [“Tray 2 transport gear removal” on page 731](#).
- 4** Remove the tray 2 feed gear. See [“Tray 2 feed gear removal” on page 716](#).
- 5** Remove the tray 2 transport clutch. See [“Tray 2 transport clutch removal” on page 729](#).
- 6** Remove the tray 2 feed clutch. See [“Tray 2 feed clutch removal” on page 714](#).

- 7** Remove the two screws (E), and then turn over the bracket (F).



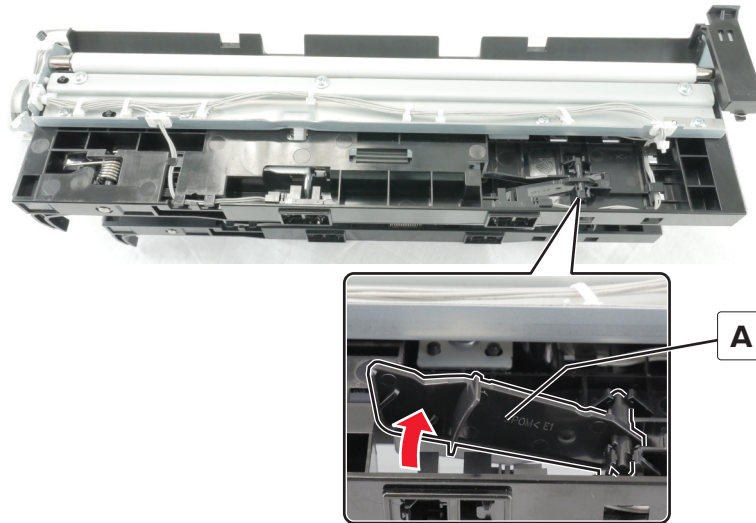
- 8** Disconnect the cable (G), and then remove the screw (H).



- 9** Remove the sensor from the bracket.

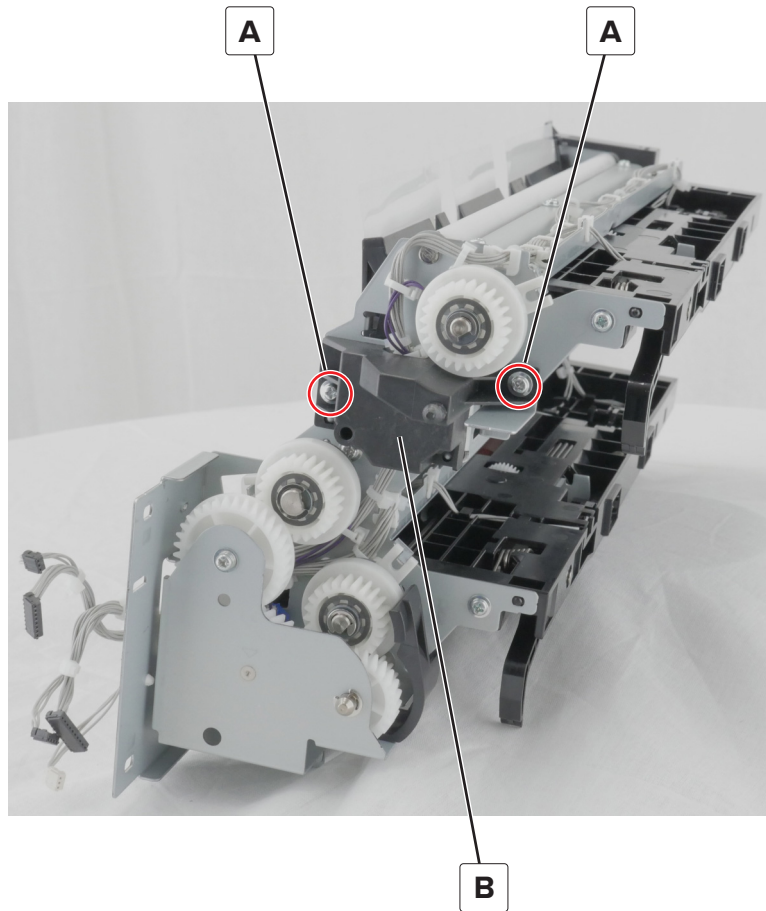
Tray 1 empty sensor actuator removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the actuator (A).

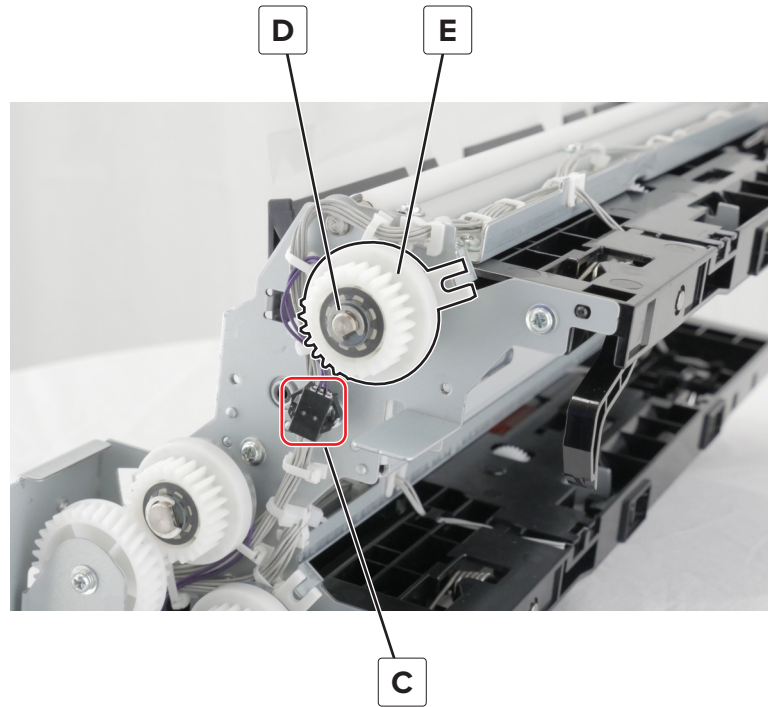


Tray 1 feed clutch removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the two screws (A), and then remove the bracket (B).



- 3 Disconnect the cable (C), remove the E-clip (D), and then remove the clutch (E).

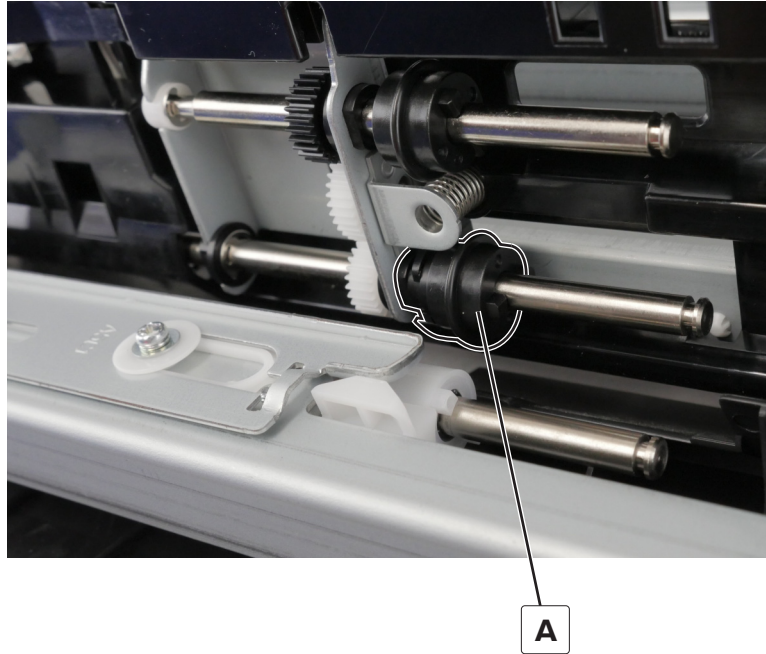


Installation note: Pay attention to the position of the tab locator on the clutch.



Tray 1 feed roller clutch removal

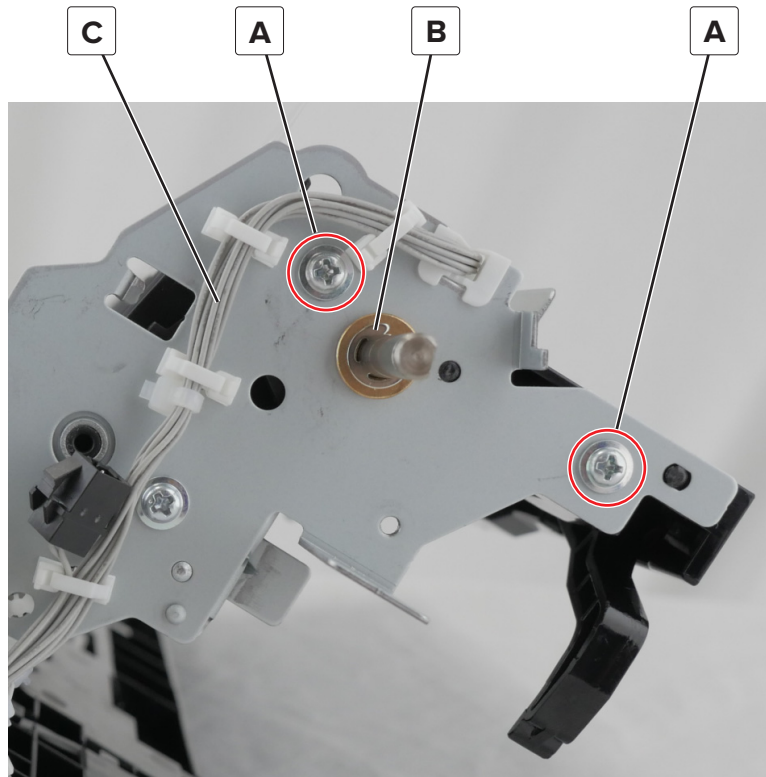
- 1 Remove the tray 1 pick roller.
- 2 Remove the tray 1 feed roller.
- 3 Remove the tray 1 separator roller.
- 4 Remove the clutch (A).



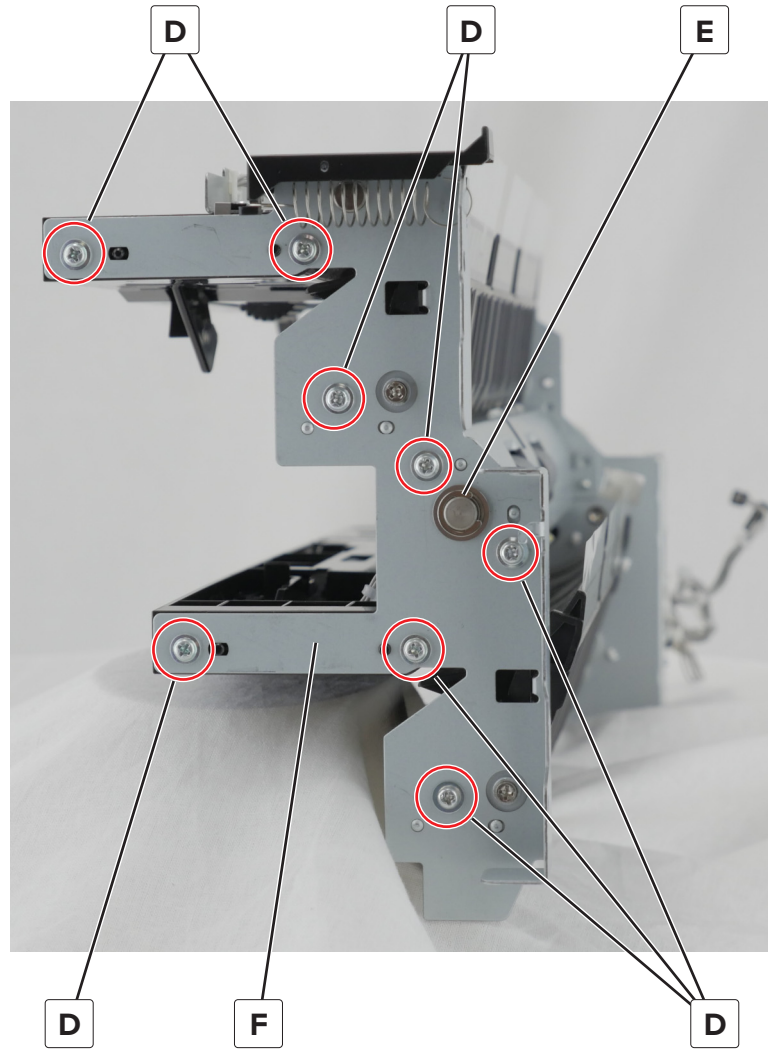
Tray 1 feed unit removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the tray 1 feed clutch. See [“Tray 1 feed clutch removal” on page 697.](#)
- 3 Remove the tray 2 transport gear. See [“Tray 2 transport gear removal” on page 731.](#)
- 4 Remove the tray 2 transport clutch. See [“Tray 2 transport clutch removal” on page 729.](#)

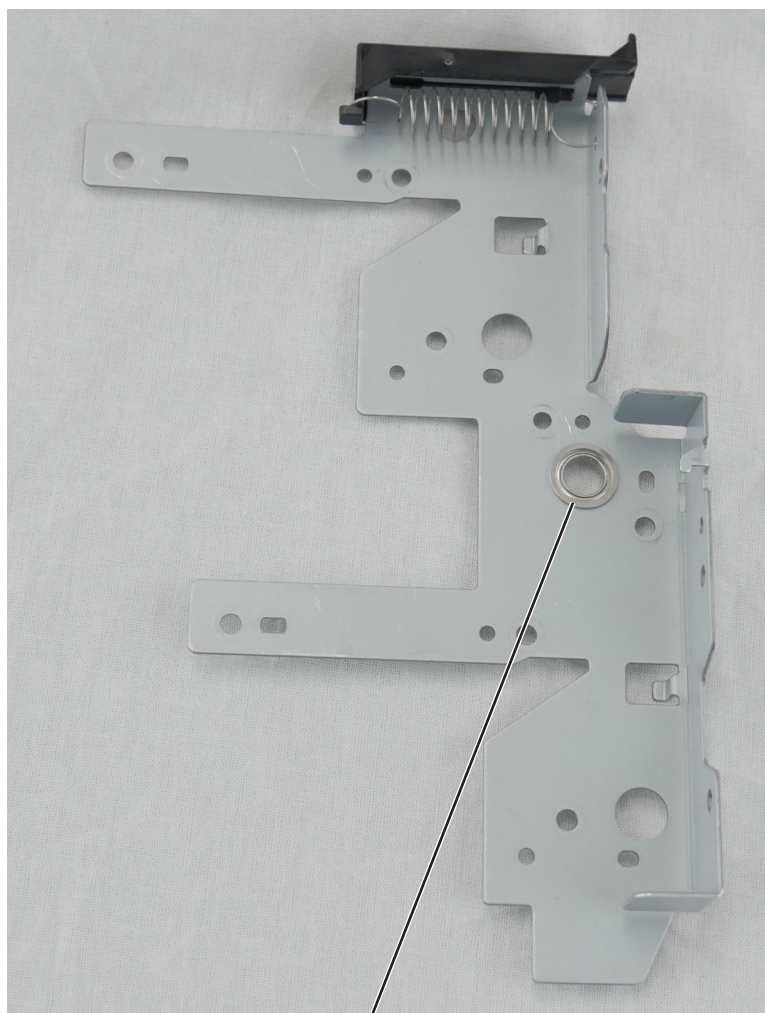
- 5** Remove the two screws (A), remove the E-clip (B), and then remove the cable (B) from the cable guides on the right side of the frame.



- 6** Remove the eight screws (D), remove the E-clip (E), and then remove the bracket (F).



Warning—Potential Damage: Do not lose the bushing (G).

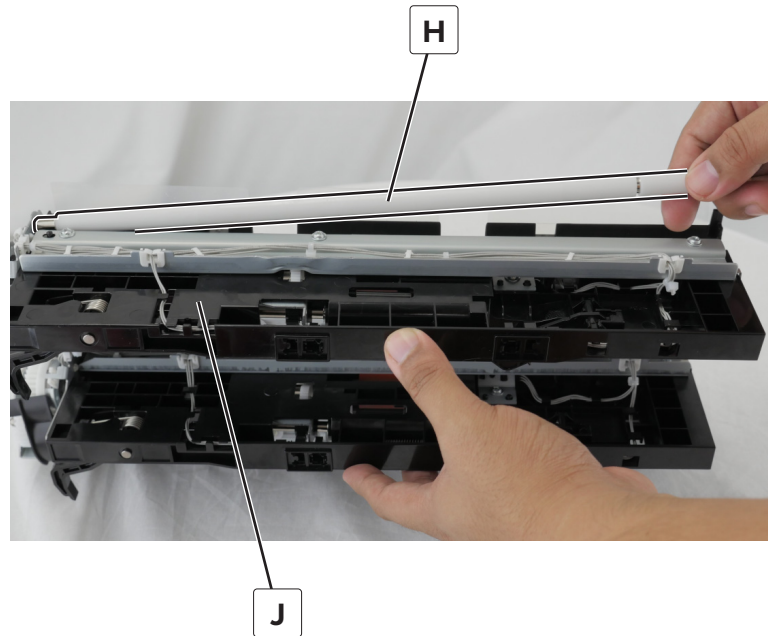


G

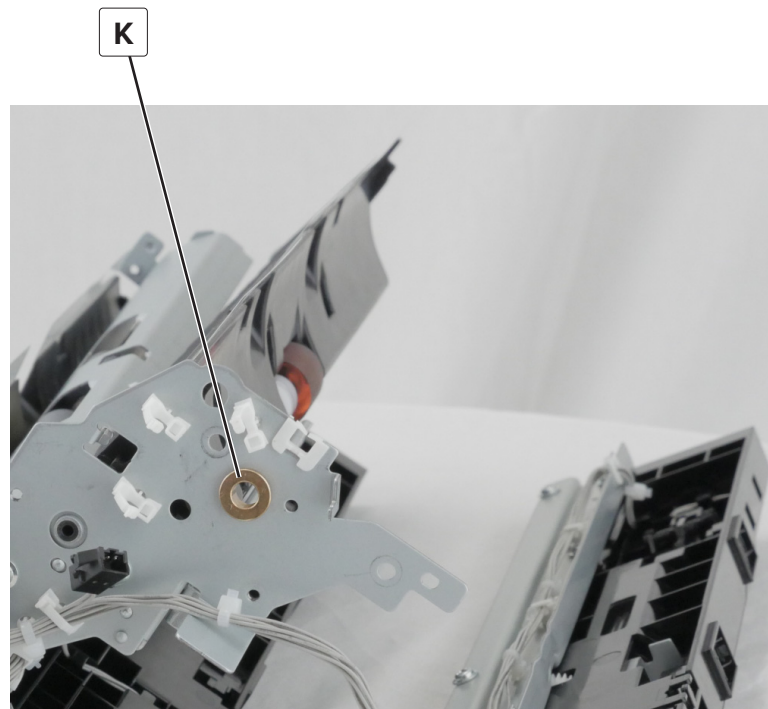
Parts removal

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- 7 Remove the tray 1 transport roller (H), and then remove the unit (J).



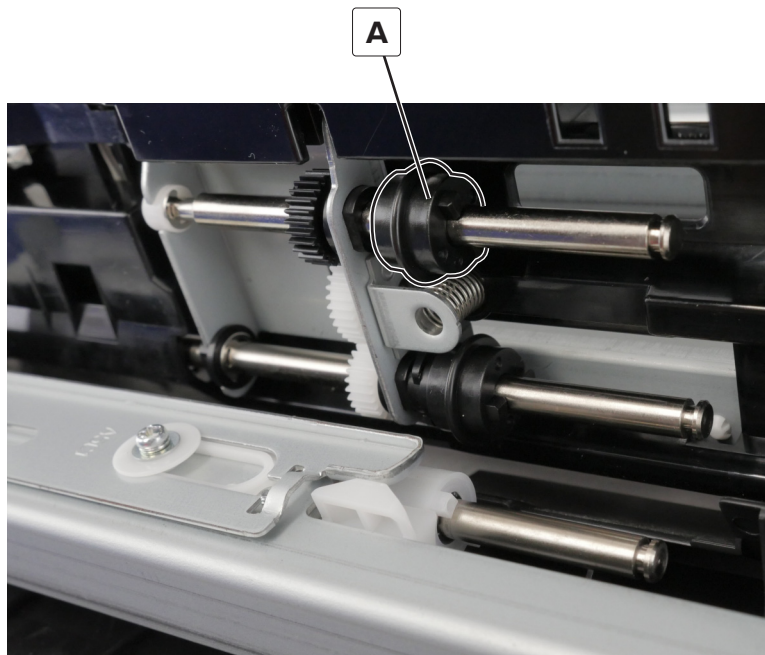
Warning—Potential Damage: Do not lose the bushing (K).



Tray 1 pick roller clutch removal

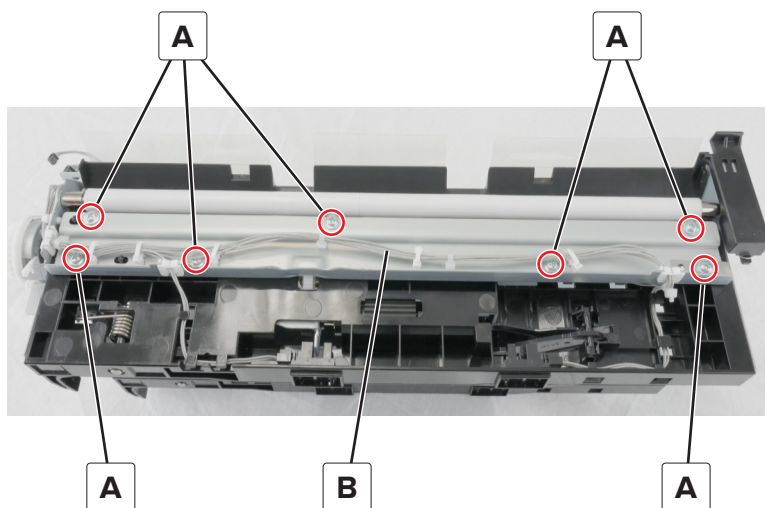
- 1 Remove the tray 1 pick roller.
- 2 Remove the tray 1 feed roller.
- 3 Remove the tray 1 separator roller.

- 4** Remove the clutch (A).

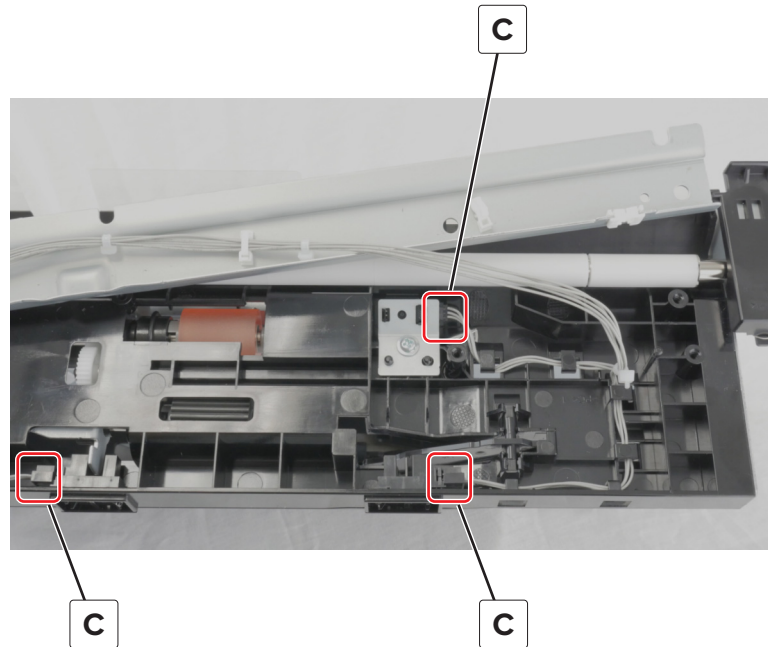


Tray 1 feed unit cable removal

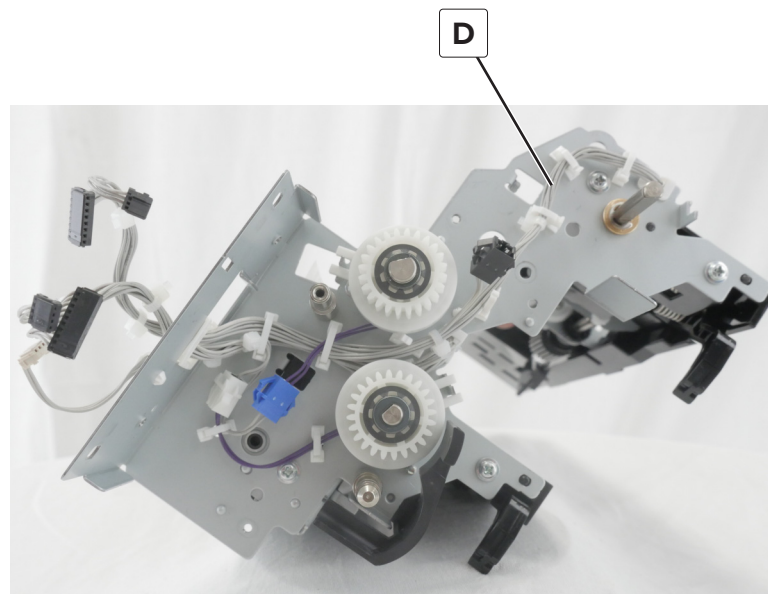
- 1** Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2** Remove the tray 1 feed clutch. See [“Tray 1 feed clutch removal” on page 697.](#)
- 3** Remove the tray 2 transport gear. See [“Tray 2 transport gear removal” on page 731.](#)
- 4** Remove the seven screws (A), and then remove the cable (B) from the cable guides.



- 5** Disconnect the three cables (C), and then remove the cable from the cable guides.

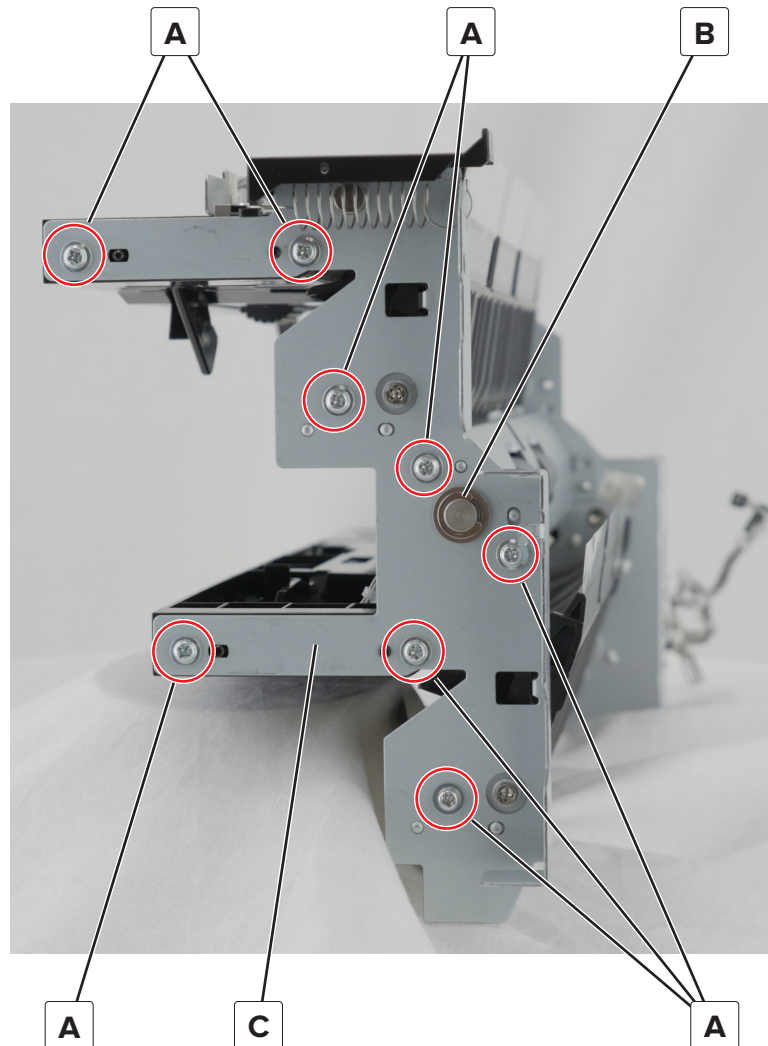


- 6** Remove the cable (D) from the cable guides.

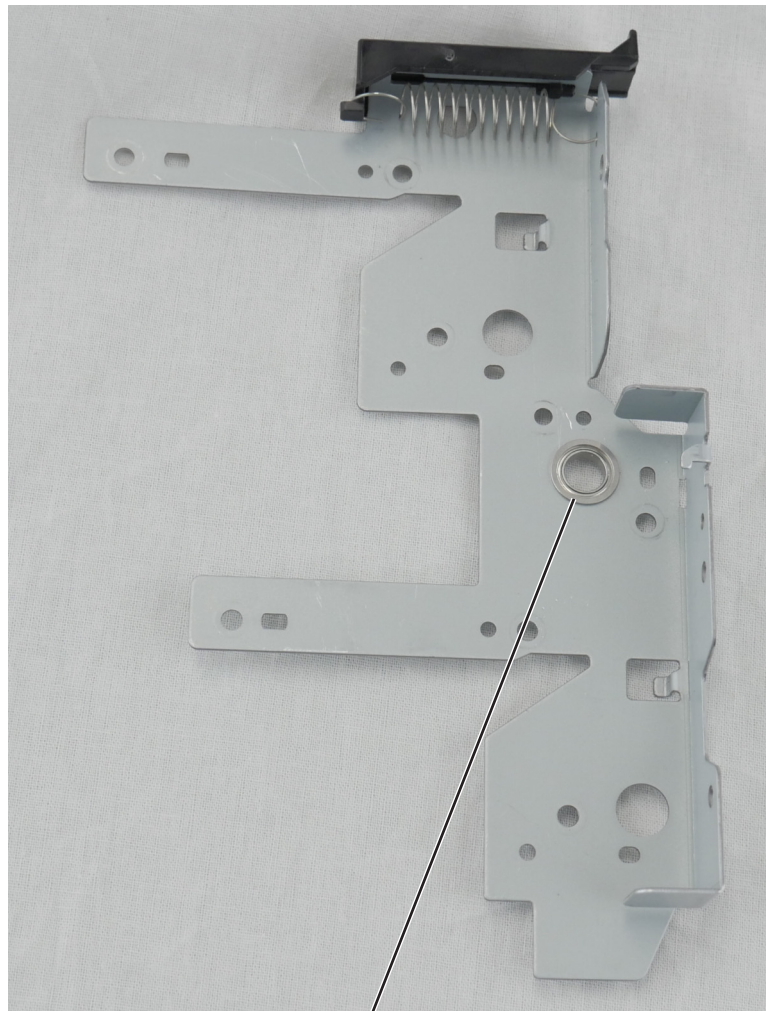


Tray 1 separator and transport guide assembly removal

- 1 Remove the tray 1 and tray 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498](#).
- 2 Remove the eight screws (A), remove the E-clip (B), and then remove the bracket (C).



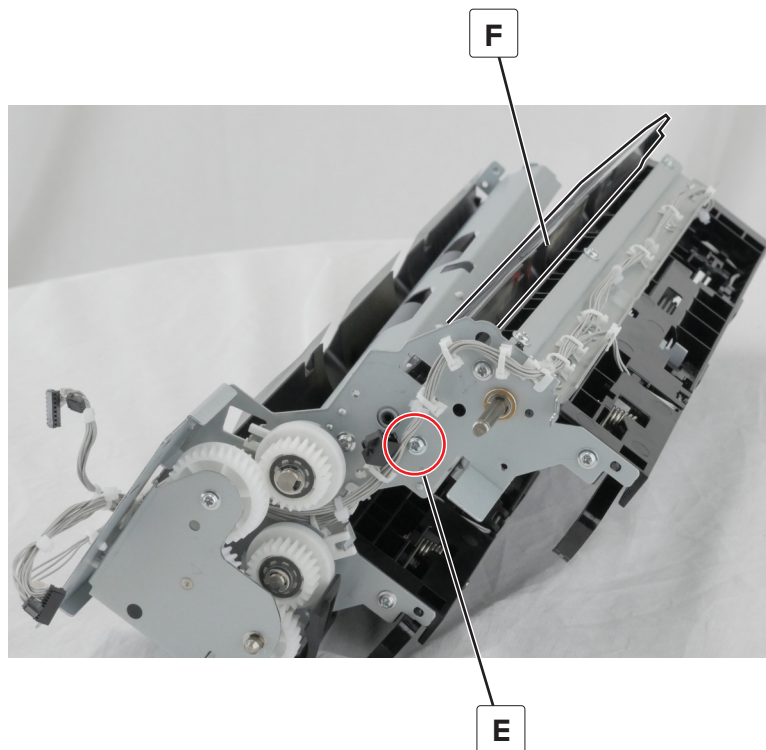
Warning—Potential Damage: Do not lose the bushing (D).



D

3 Remove the tray 1 feed clutch. See [“Tray 1 feed clutch removal” on page 697.](#)

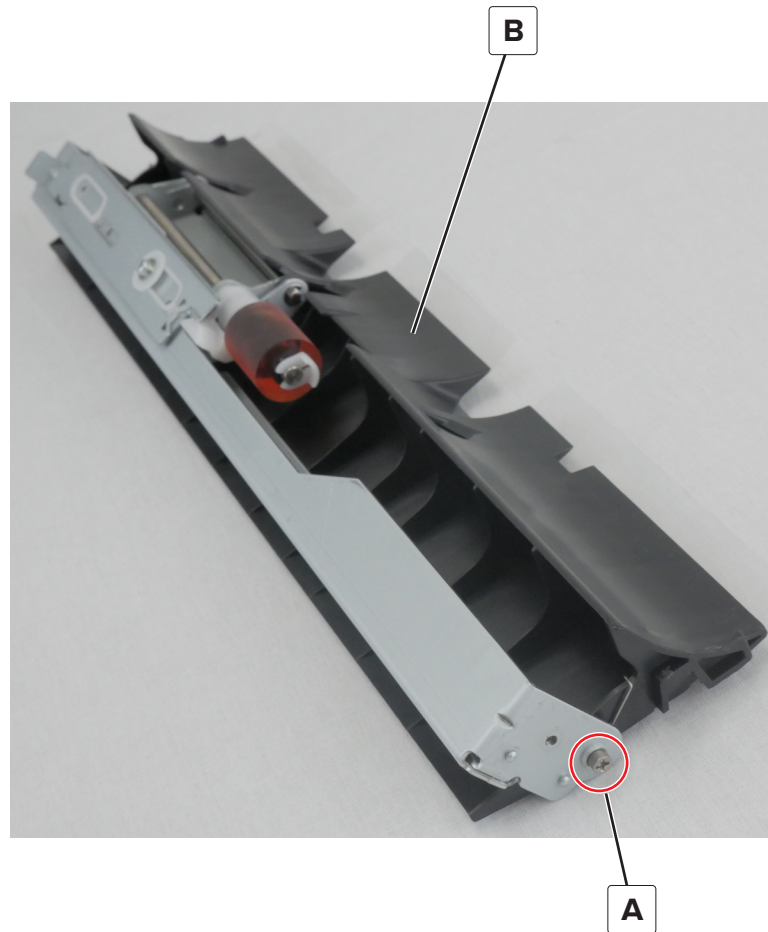
- 4** Remove the screw (E), and then remove the assembly (F).



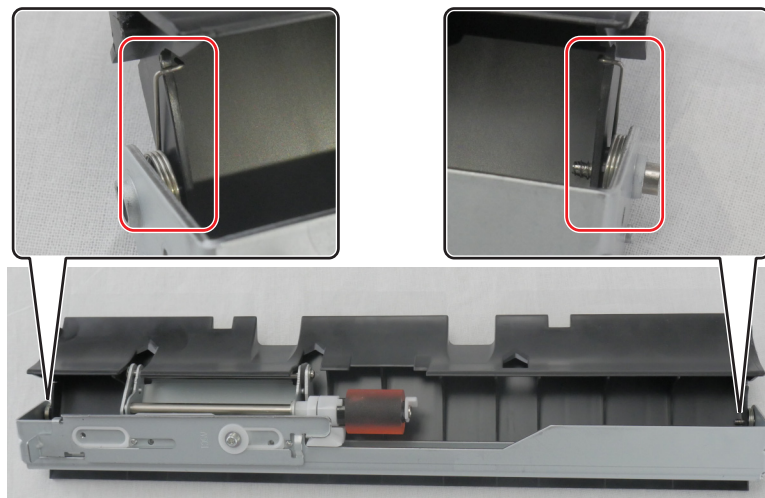
Tray 1 separator assembly removal

- 1** Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498](#).
- 2** Remove the tray 1 separator and transport guide assembly. See [“Tray 1 separator and transport guide assembly removal” on page 706](#).

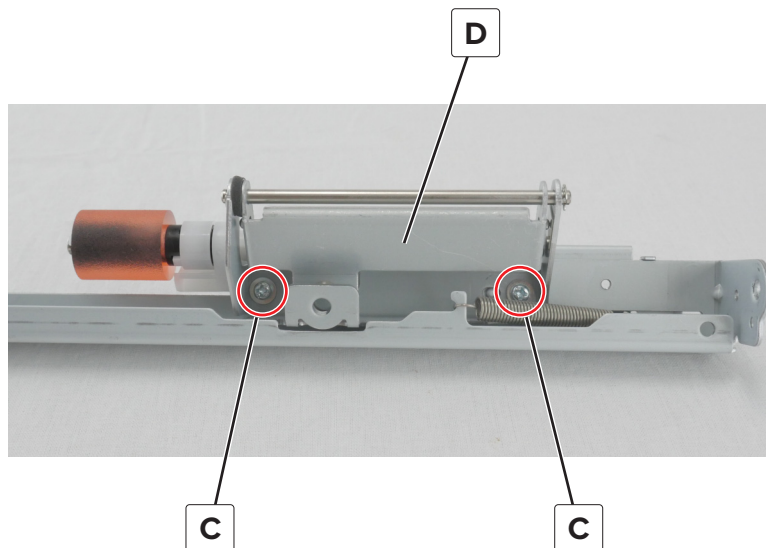
- 3** Remove the screw (A), and then remove the feed guide (B).



Installation note: Pay attention to the position of the two springs.

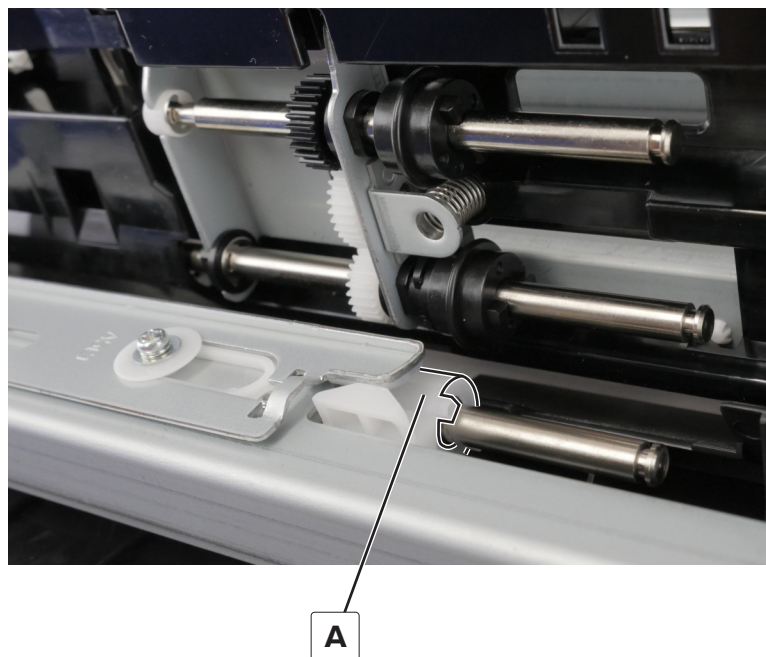


- 4** Remove the two screws (C), and then remove the separator assembly (D).

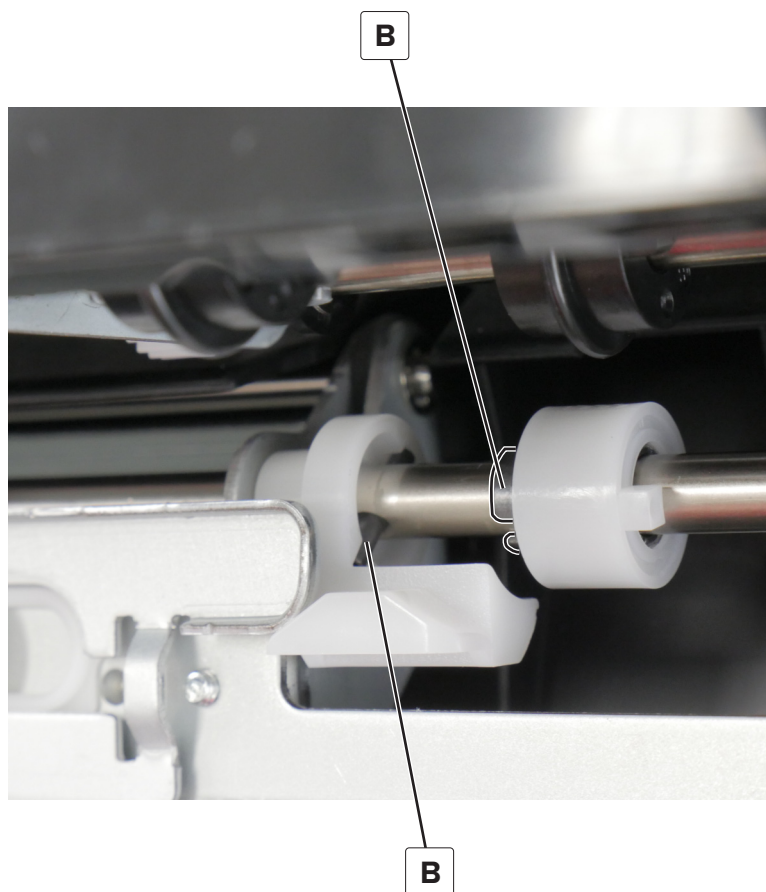


Tray separator roller clutch removal

- 1** Remove the tray pick roller.
- 2** Remove the tray feed roller.
- 3** Remove the tray separator roller.
- 4** Remove the clutch (A).

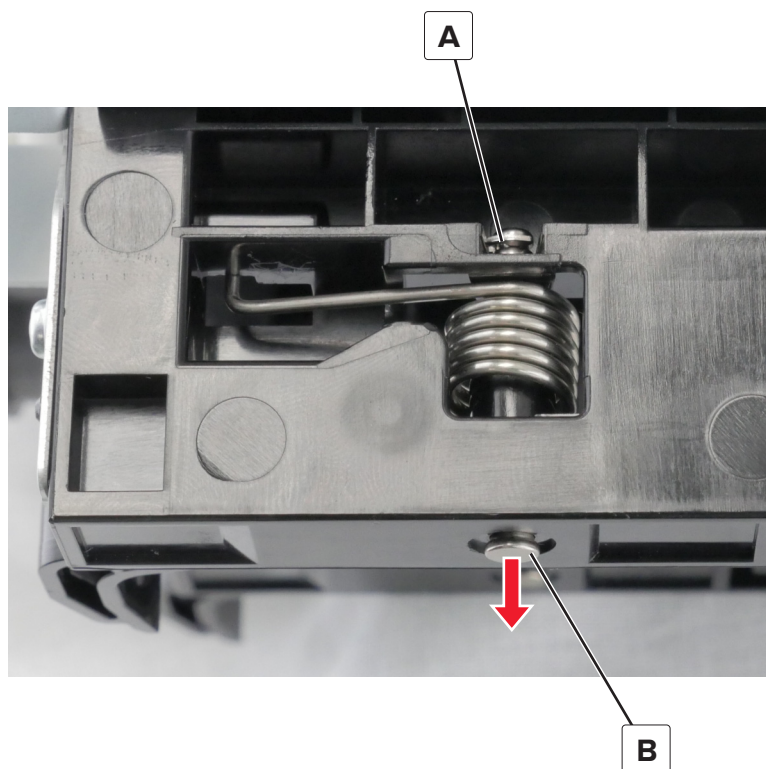


Installation note: Pay attention to the position of the locator pins (B).

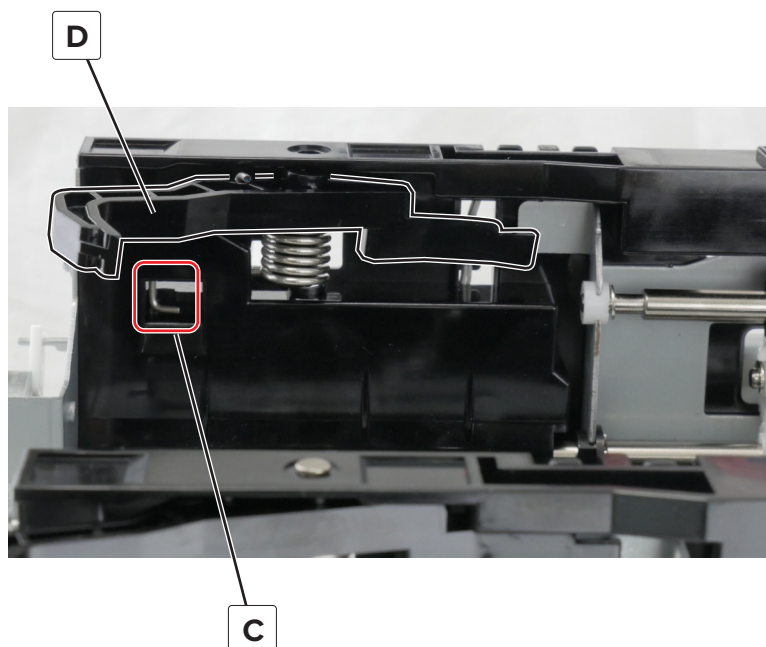


Tray 1 tray set actuator removal

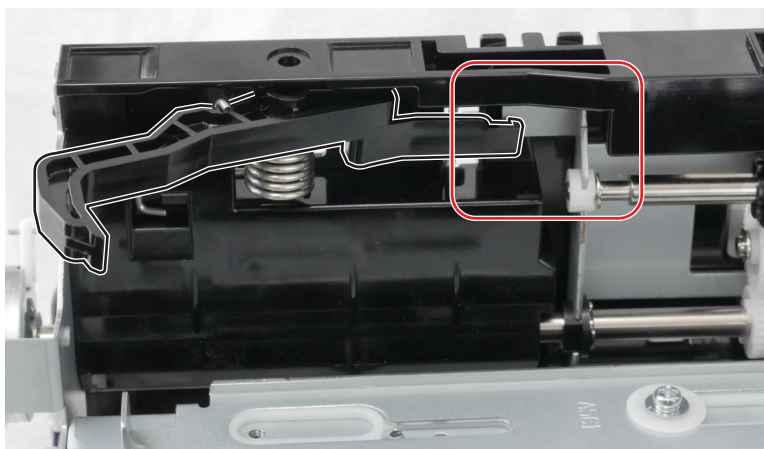
- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the E-clip (A), and then remove the shaft (B).



- 3 Unhook the spring (C), and then remove the actuator (D).

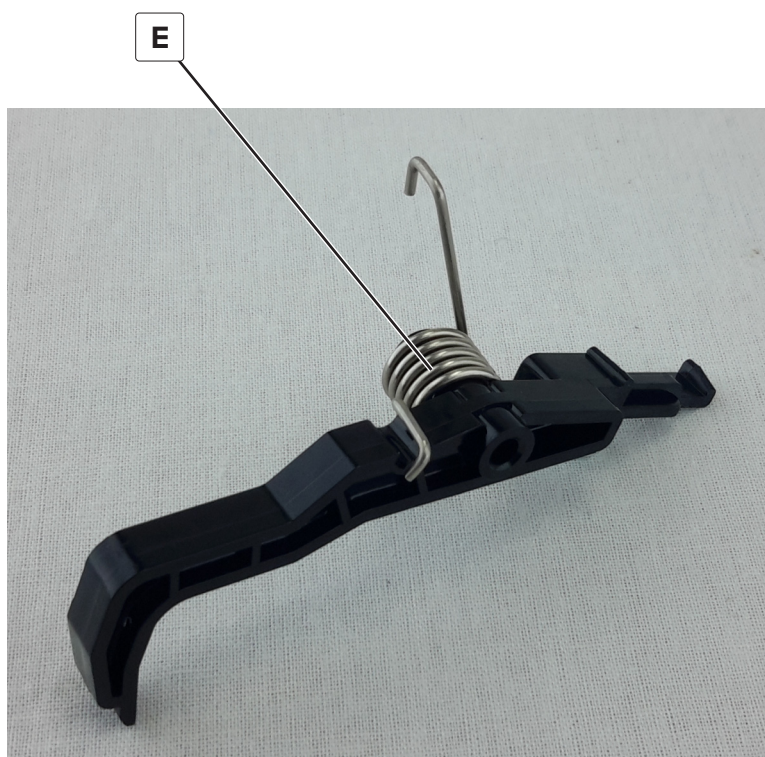


Installation note: Pay attention to the position of the actuator.



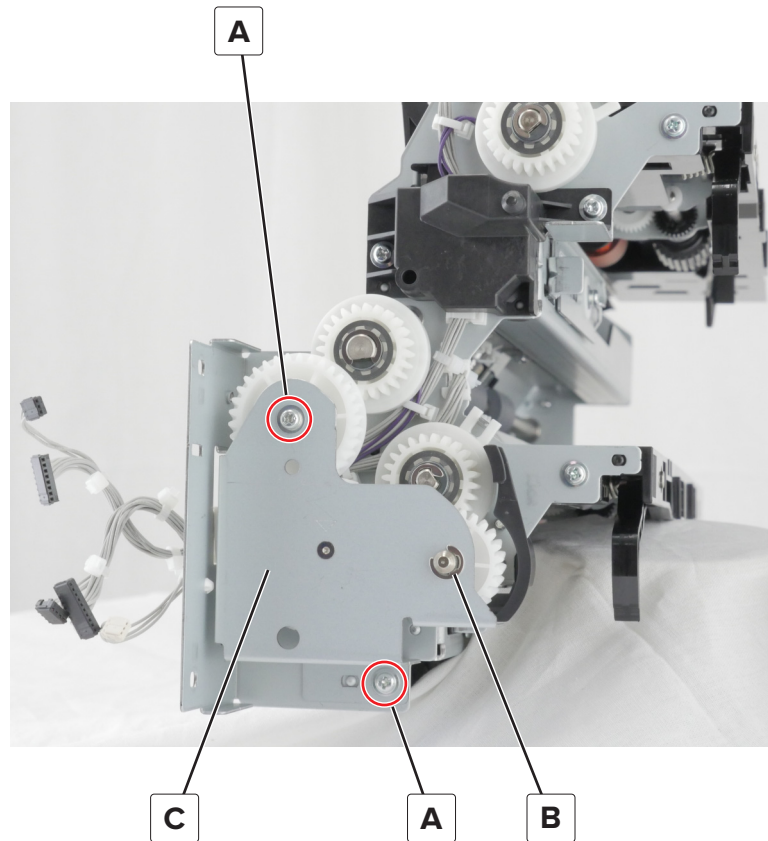
4 Remove the spring (E).

Installation note: Pay attention to the position of the spring.



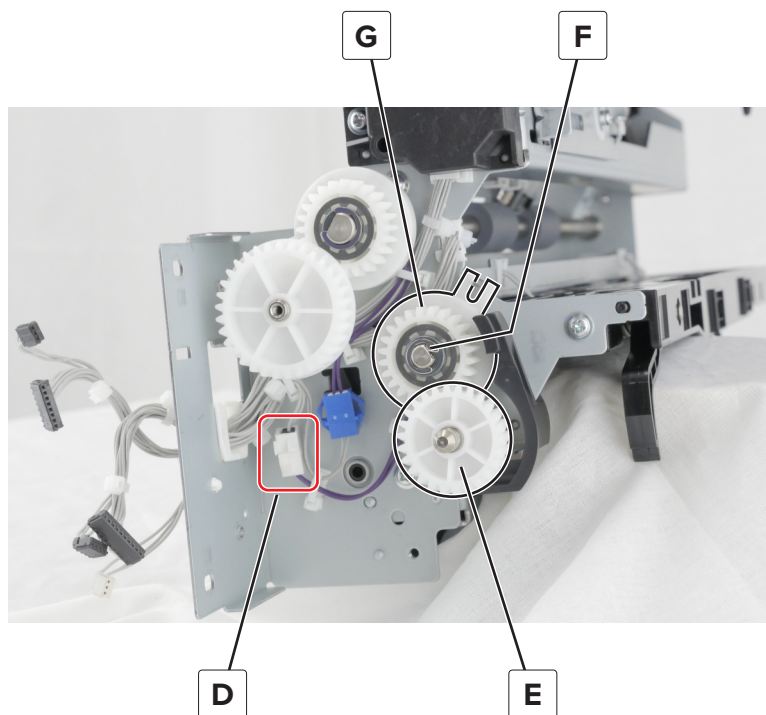
Tray 2 feed clutch removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the two screws (A), remove the E-clip (B), and then remove the bracket (C).



- 3 Disconnect the cable (D), and then remove the gear (E).

4 Remove the E-clip (F), and then remove the clutch (G).

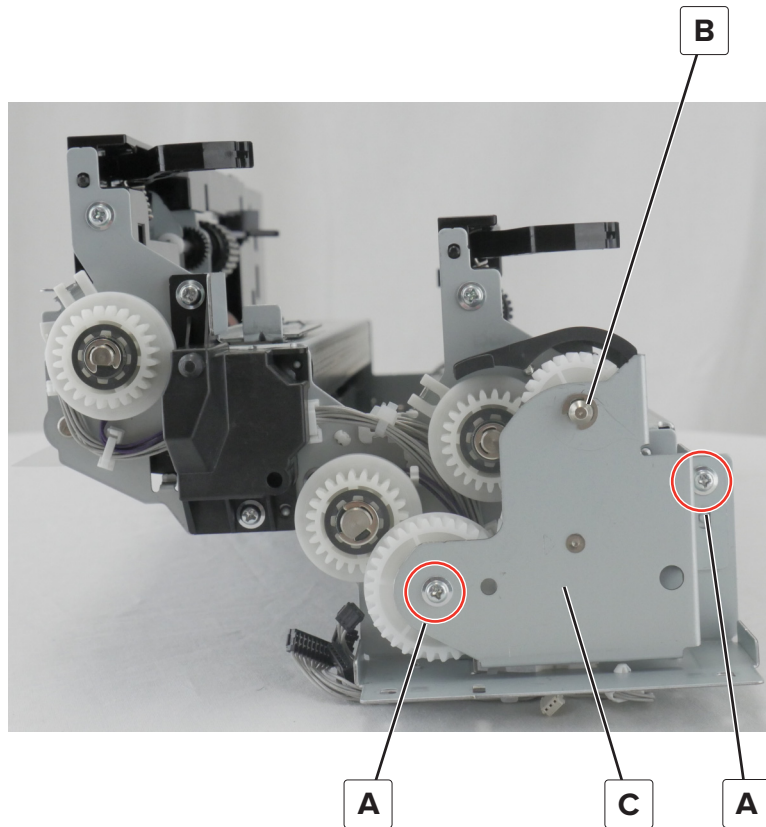


Installation note: Pay attention to the position of the tab locator on the clutch.

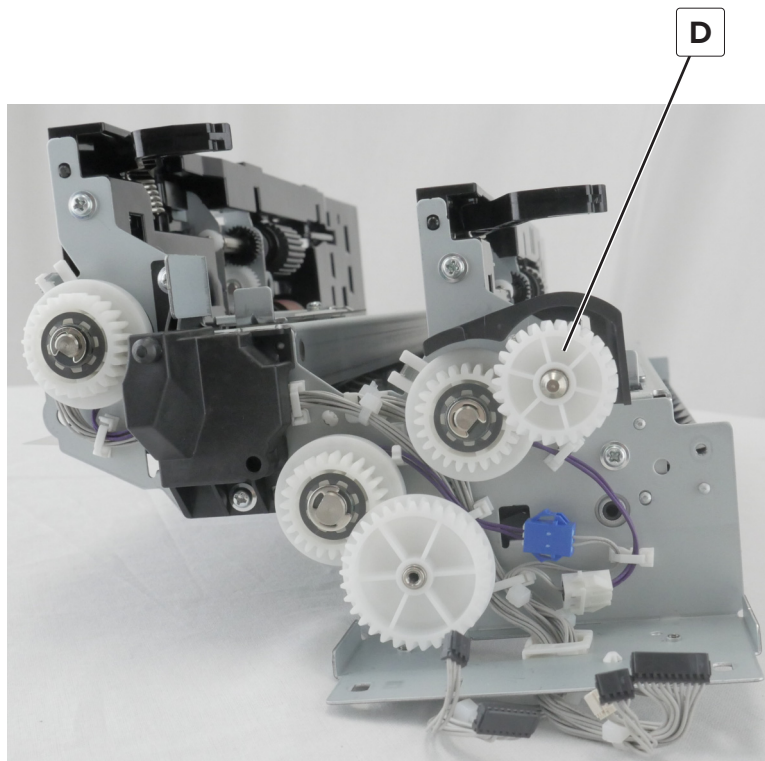


Tray 2 feed gear removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the two screws (A), remove the E-clip (B), and then remove the bracket (C).

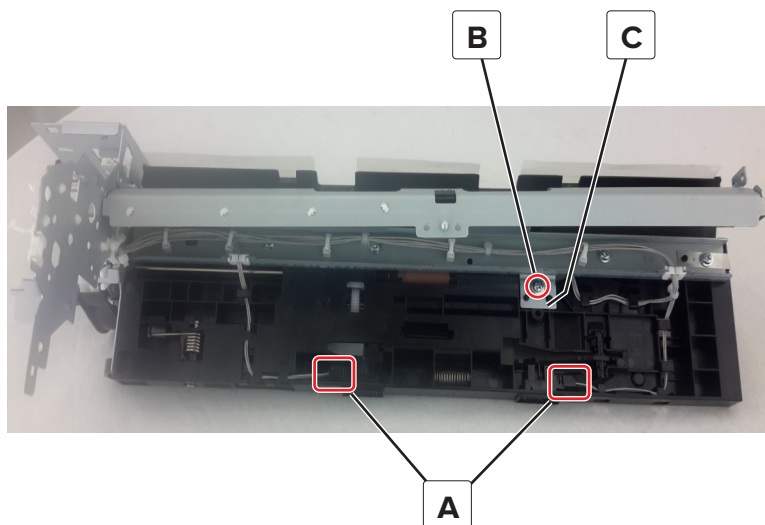


- 3** Remove the gear (D).



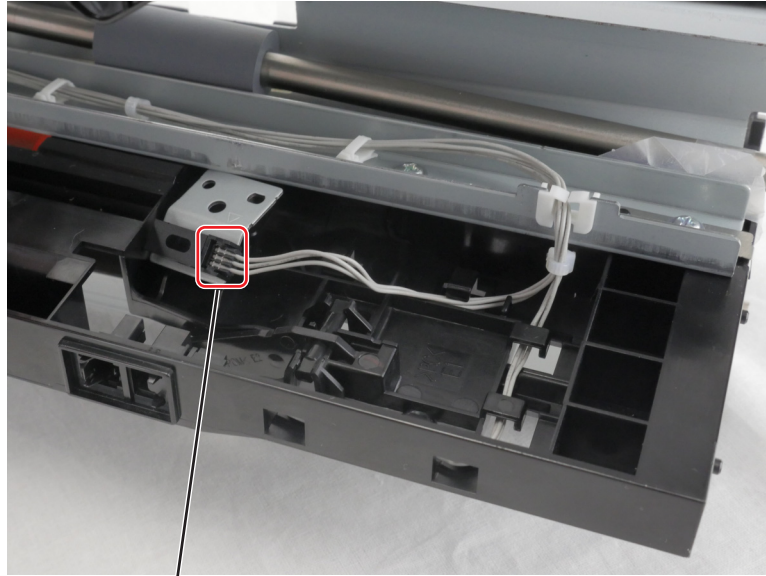
Tray 2 feed unit cable removal

- 1** Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2** Remove the tray 1 feed unit. See [“Tray 1 feed unit removal” on page 699.](#)
- 3** Remove the tray 1 separator and transport guide assembly. See [“Tray 1 separator and transport guide assembly removal” on page 706.](#)
- 4** Disconnect the two cables (A), remove the screw (B), and then remove the bracket (C).

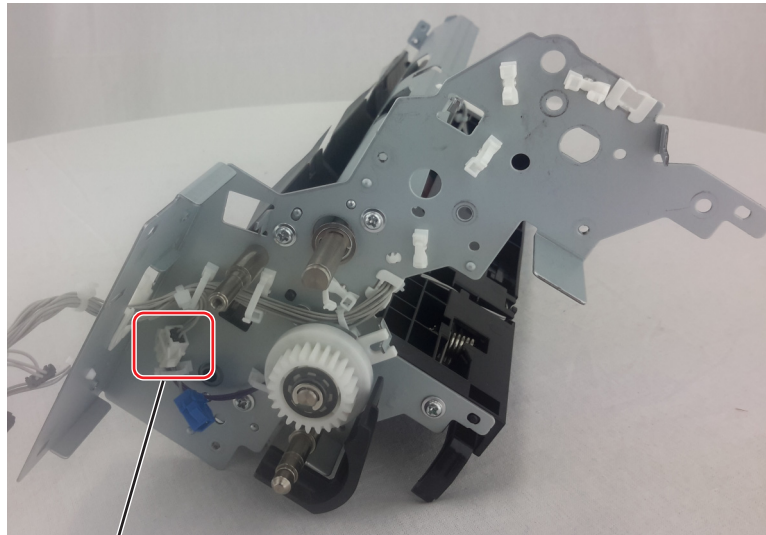


Parts removal

- 5** Disconnect the cable (D), and then remove the cable from the cable guides.

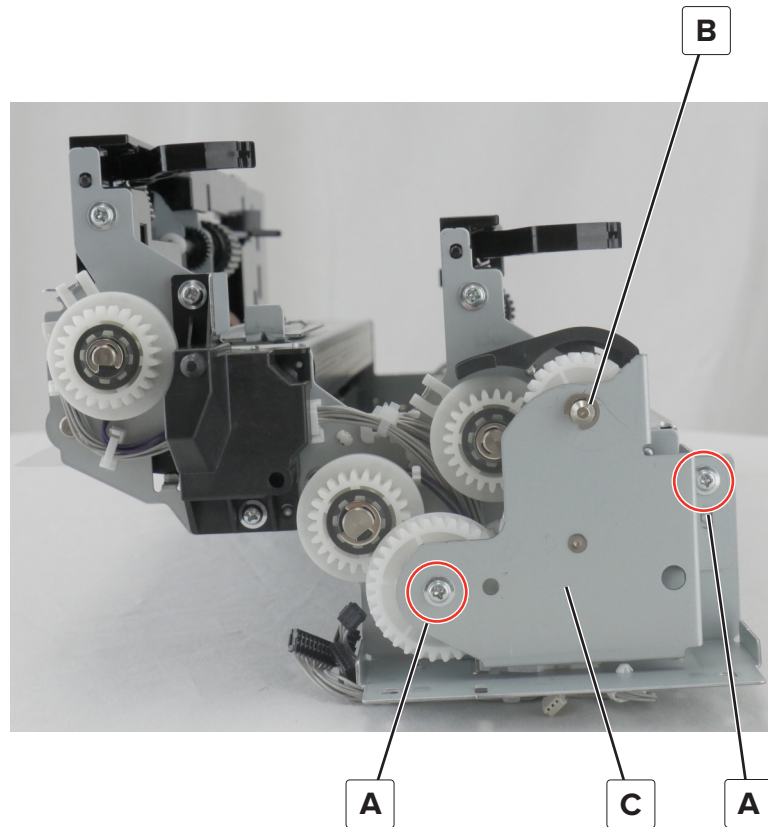
**D**

- 6** Disconnect the cable (E), and then remove the cable from the cable guides.

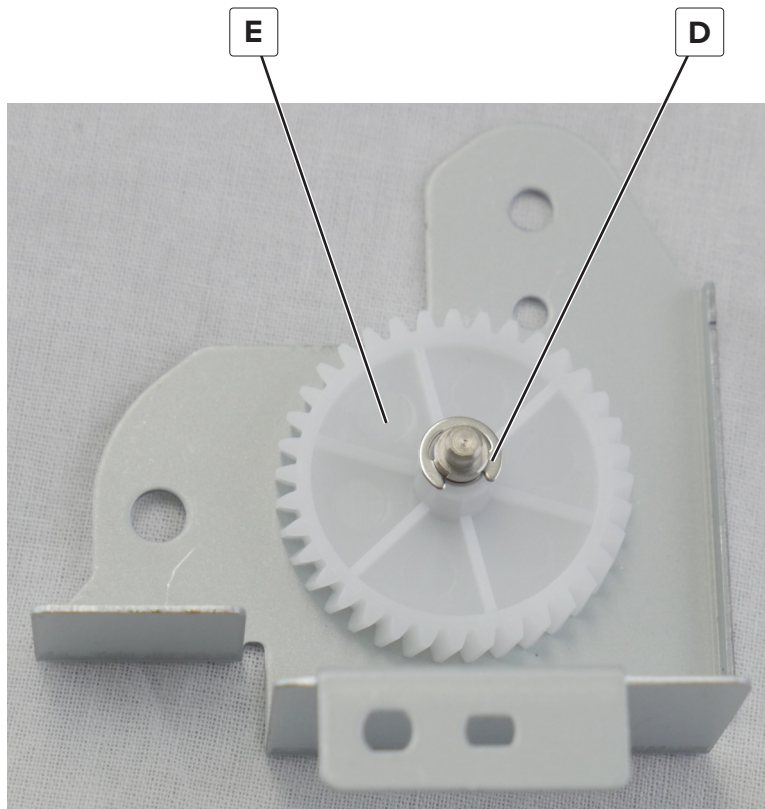
**E**

Tray 2 idler gear removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the two screws (A), remove the E-clip (B), and then remove the bracket (C).



3 Remove the E-clip (D), and then remove the gear (E).

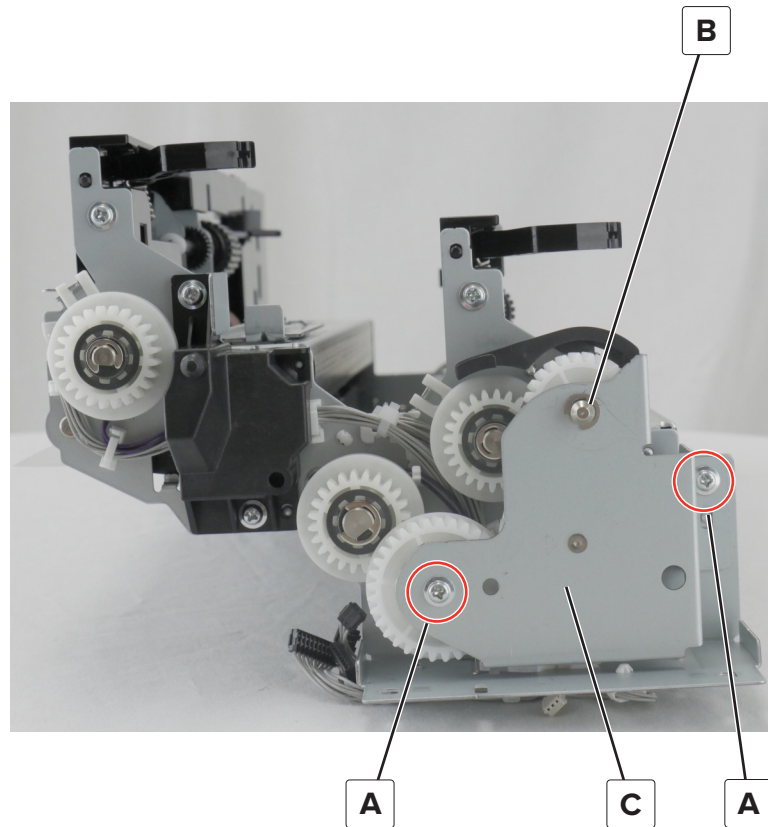


Parts removal

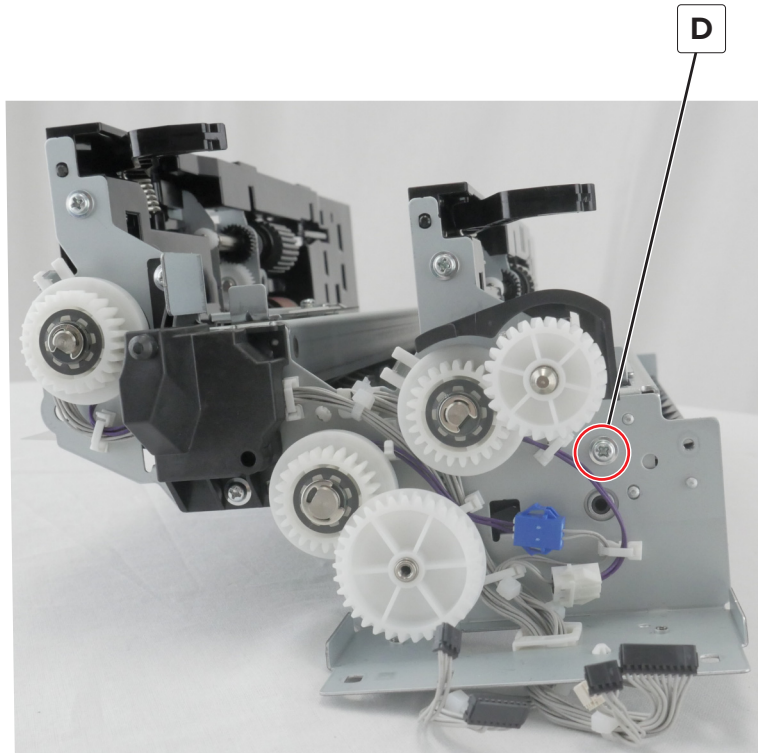
720

Tray 2 separator assembly removal

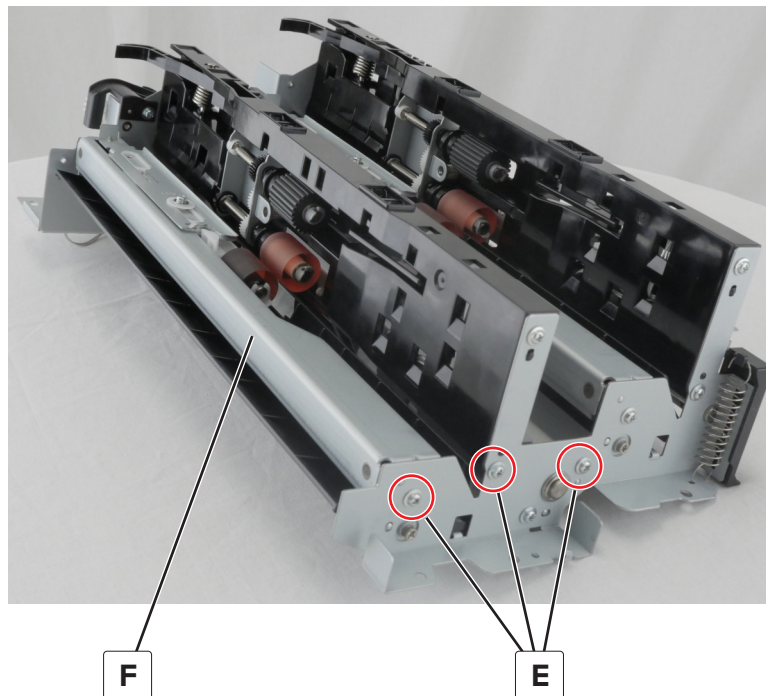
- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the two screws (A), remove the E-clip (B), and then remove the bracket (C).



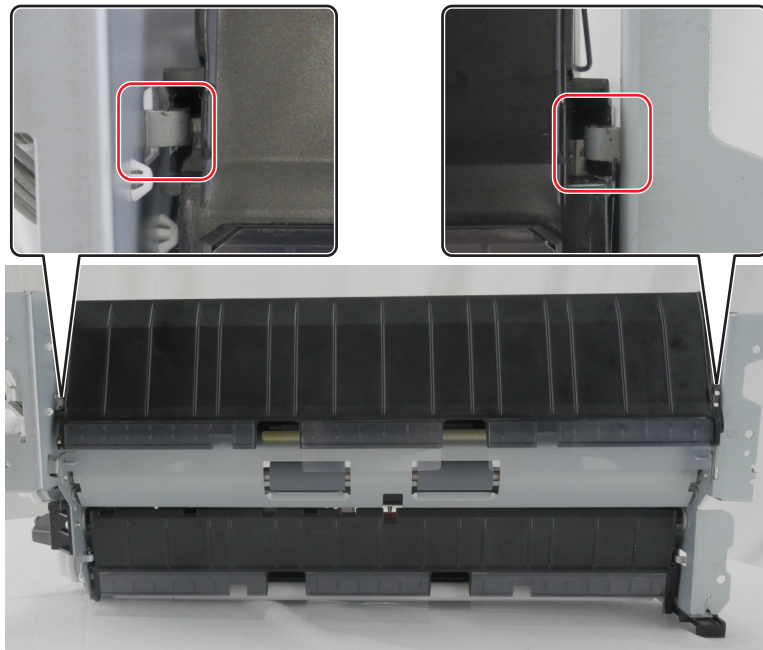
3 Remove the screw (D).



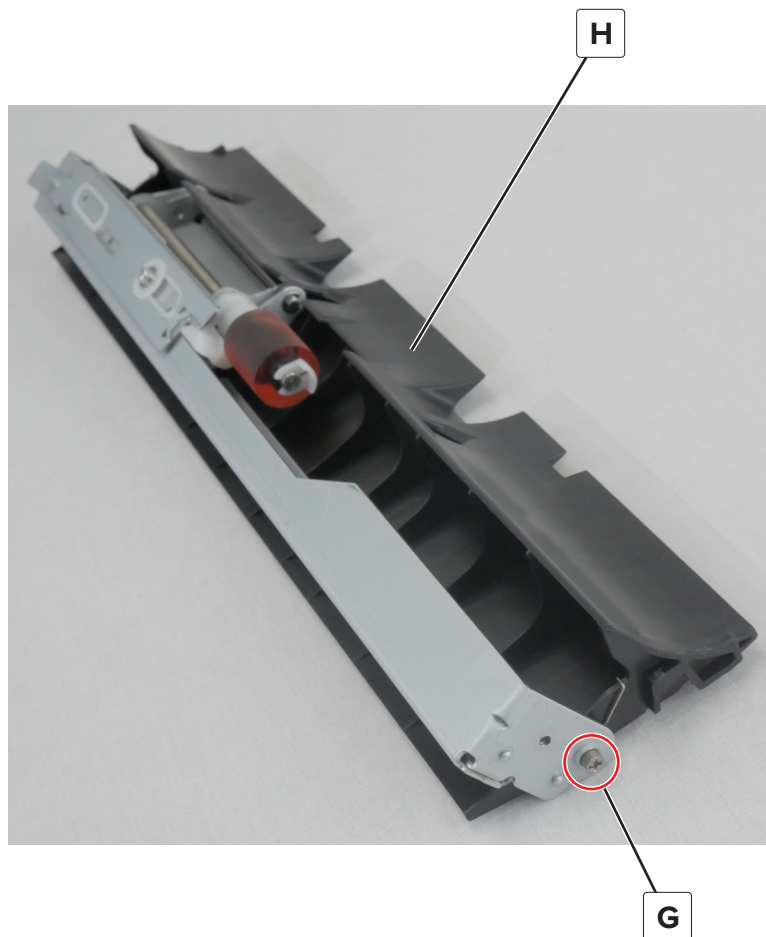
4 Remove the three screws (E), and then remove the transport guide (F).



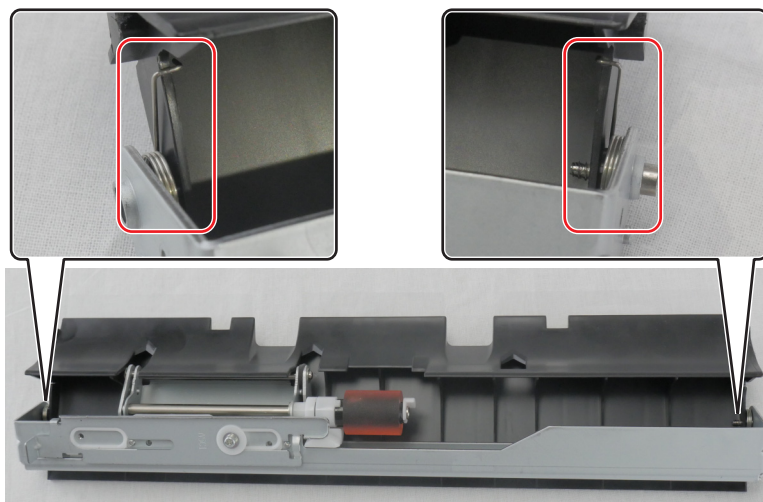
Installation note: Pay attention to the position of the two tabs on the feed guide.



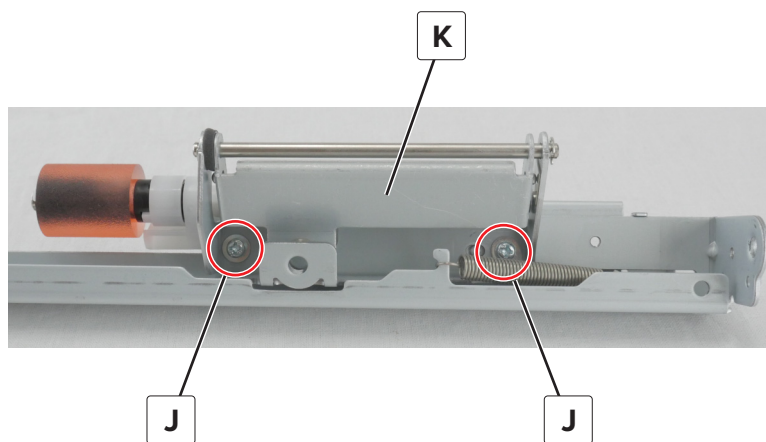
5 Remove the screw (G), and then remove the feed guide (H).



Installation note: Pay attention to the position of the two springs.

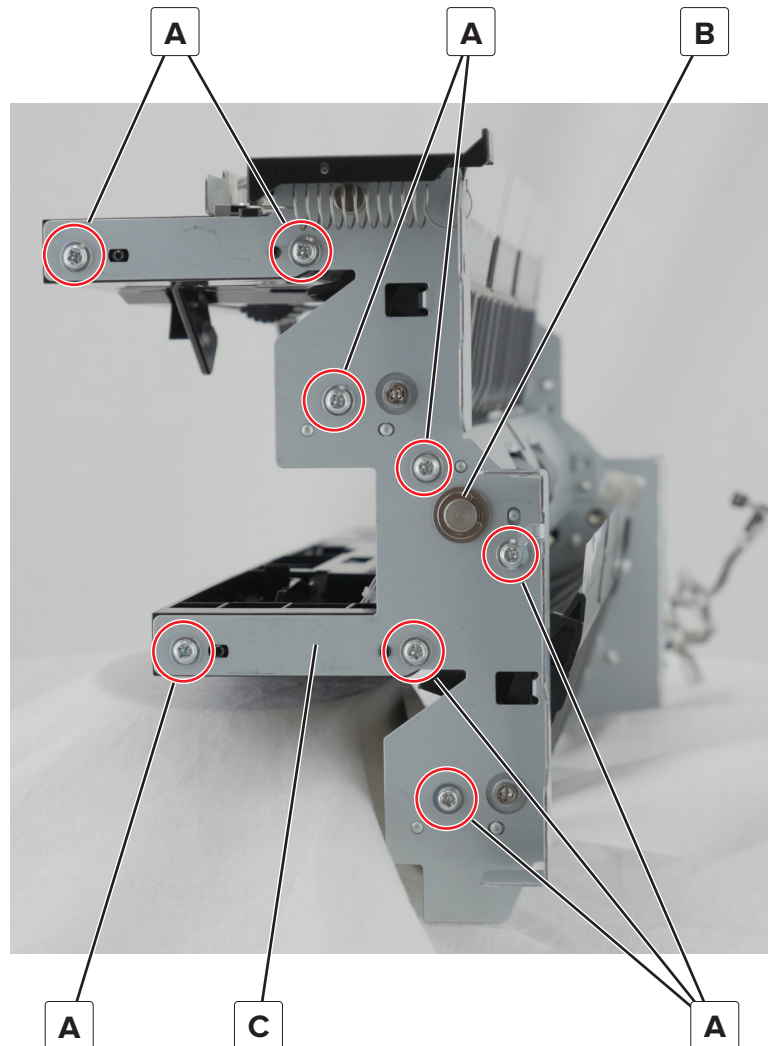


6 Remove the two screws (J), and then remove the separator assembly (K).

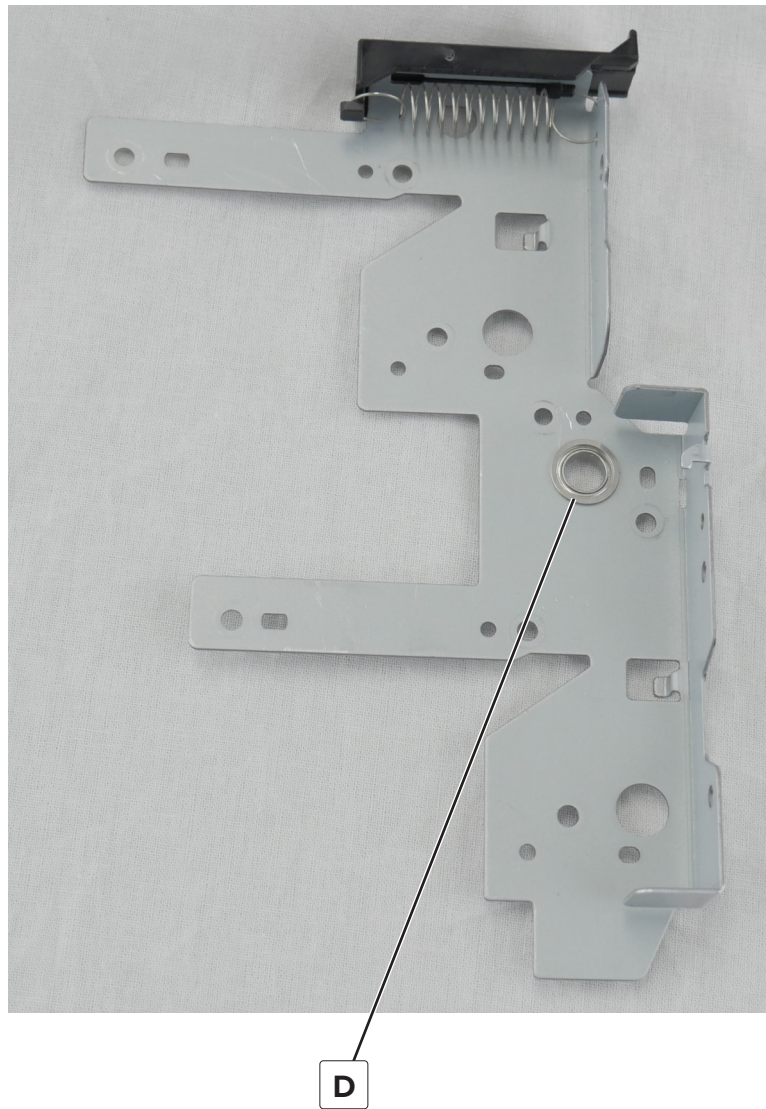


Tray 2 transfer roller removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the eight screws (A), remove the E-clip (B), and then remove the bracket (C).

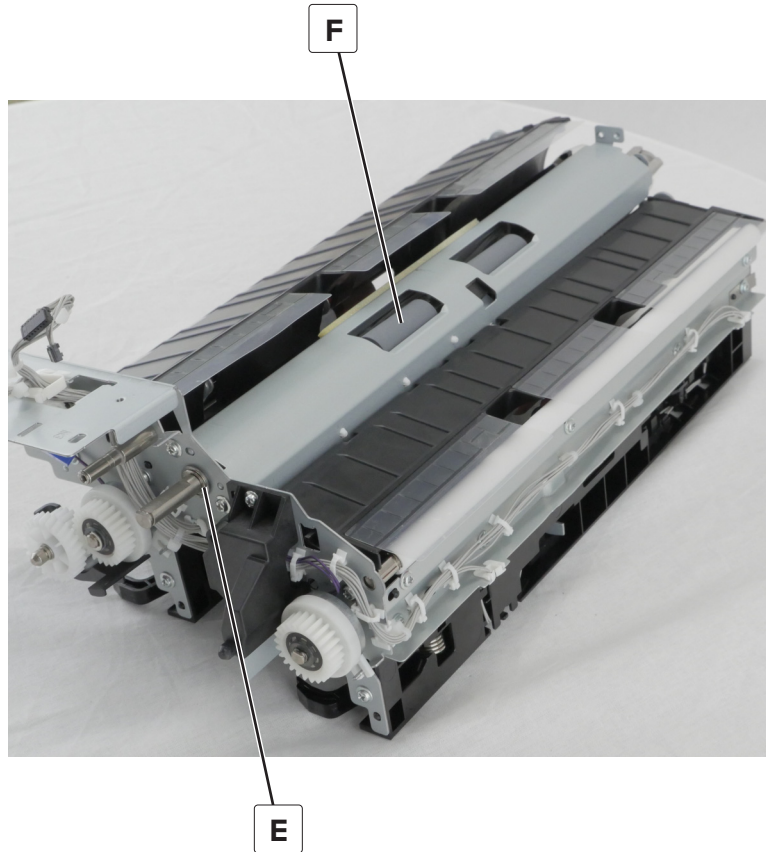


Warning—Potential Damage: Do not lose the bushing (D).

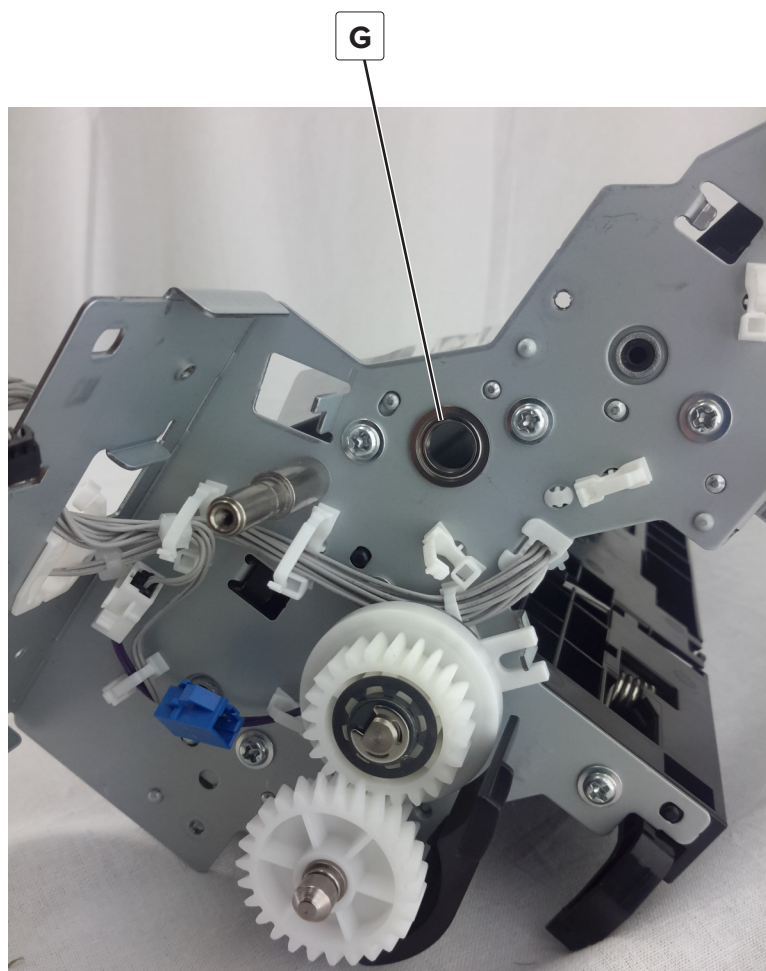


- 3** Remove the tray 2 transport gear. See [“Tray 2 transport gear removal” on page 731](#).
- 4** Remove the tray 2 transport clutch. See [“Tray 2 transport clutch removal” on page 729](#).

- 5 Remove the E-clip (E), and then remove the roller (F).



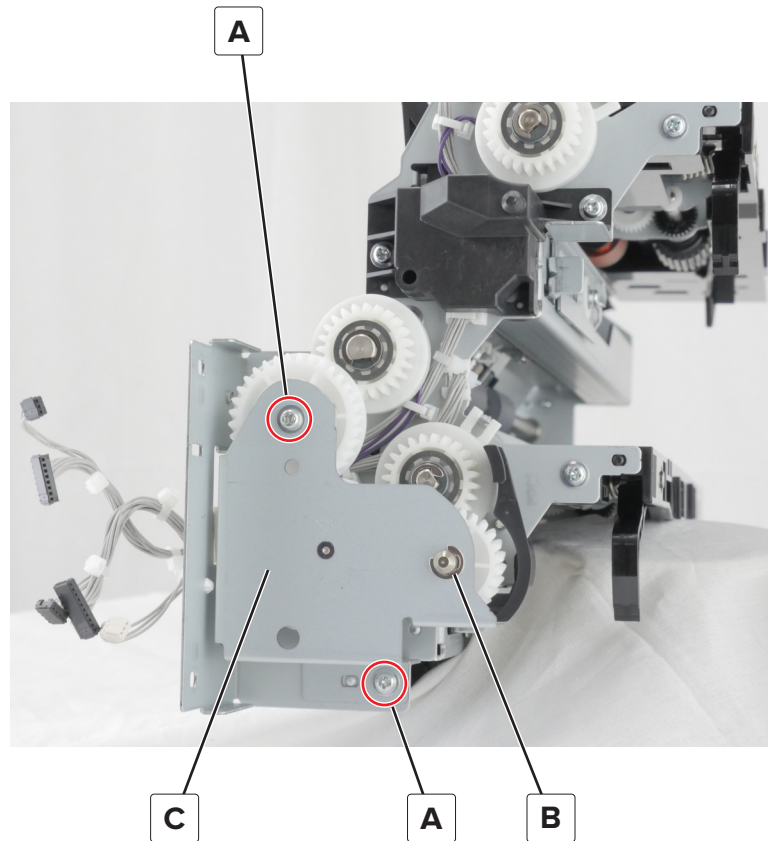
Warning—Potential Damage: Do not lose the bushing (G).



Parts removal

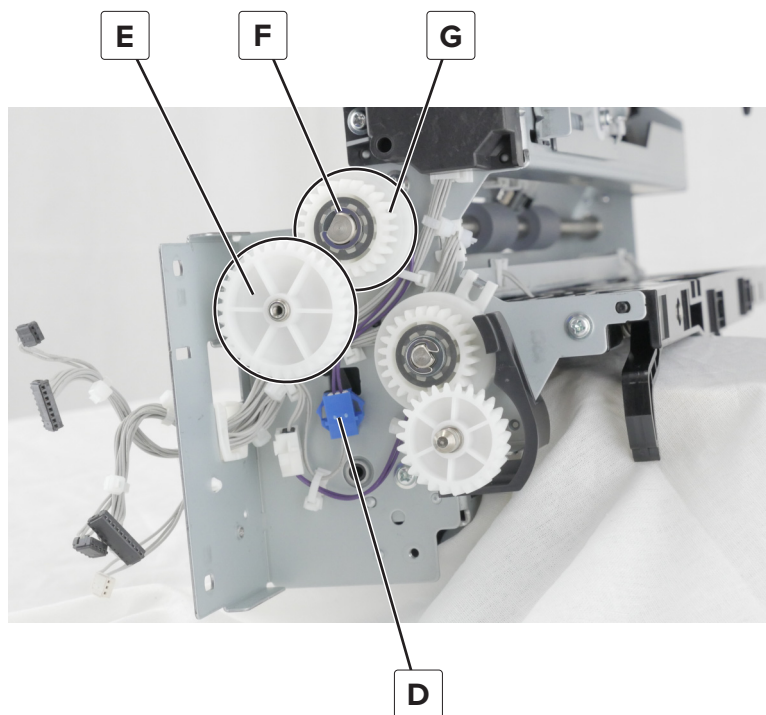
Tray 2 transport clutch removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the two screws (A), remove the E-clip (B), and then remove the bracket (C).



- 3 Disconnect the cable (D), and then remove the gear (E).

4 Remove the E-clip (F), and then remove the clutch (G).

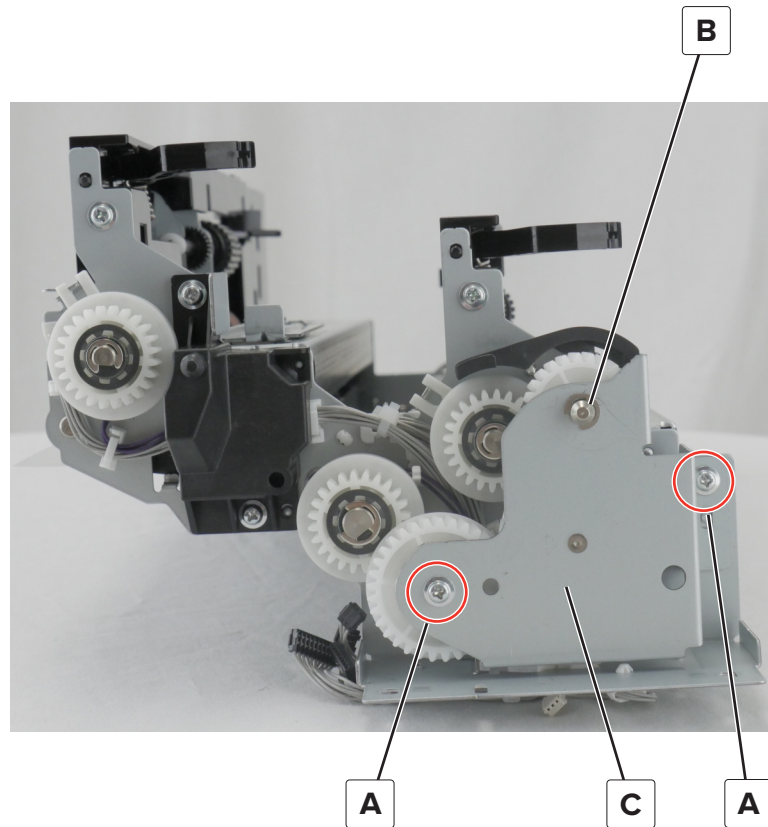


Installation note: Pay attention to the position of the tab locator on the clutch.

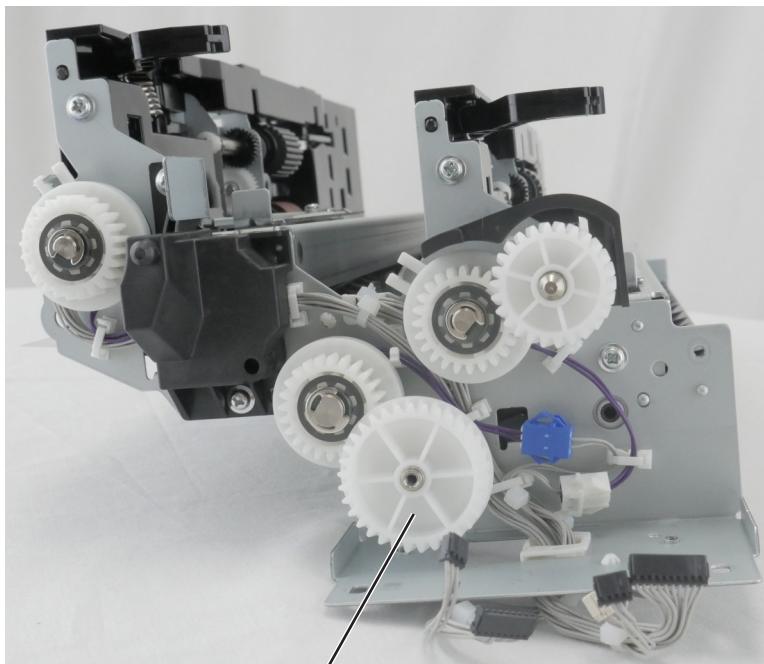


Tray 2 transport gear removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the two screws (A), remove the E-clip (B), and then remove the bracket (C).



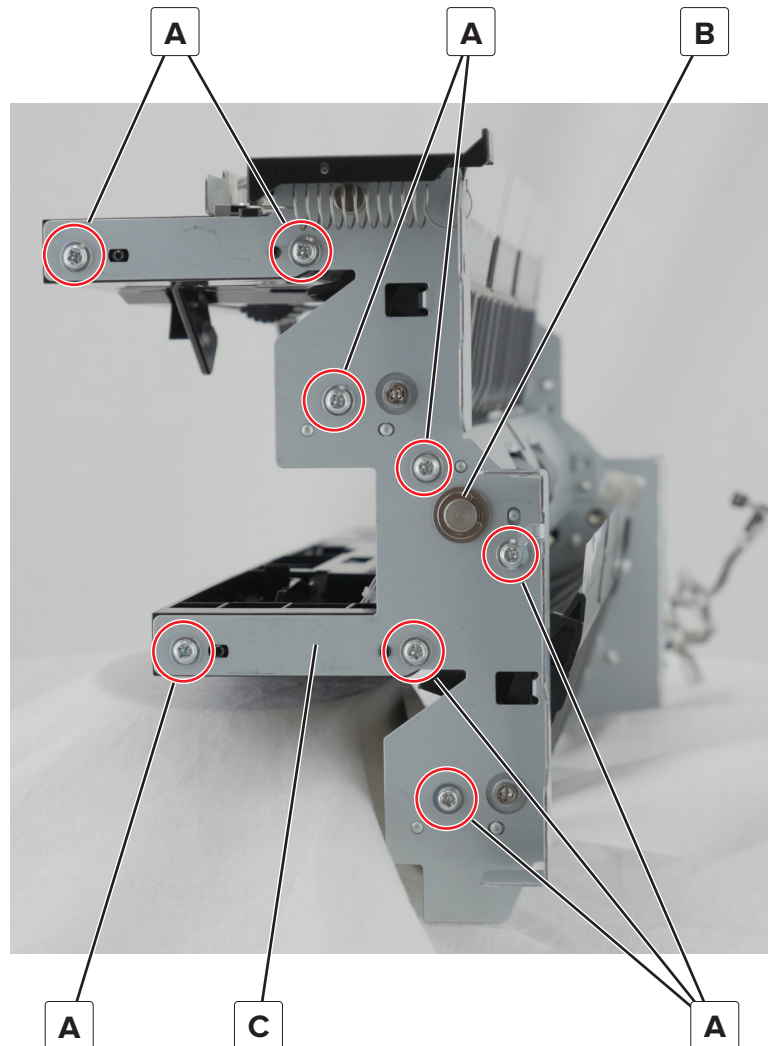
3 Remove the gear (D).



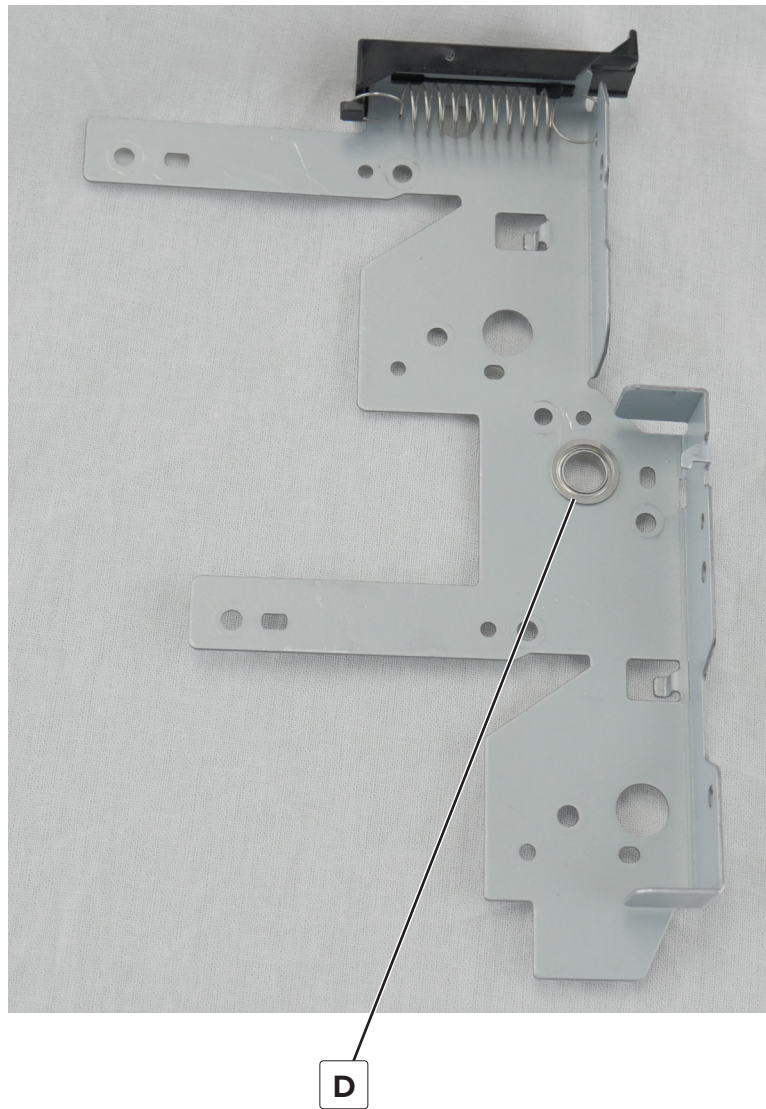
D

Tray 2 transport sensor cable removal

- 1 Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498.](#)
- 2 Remove the eight screws (A), remove the E-clip (B), and then remove the bracket (C).

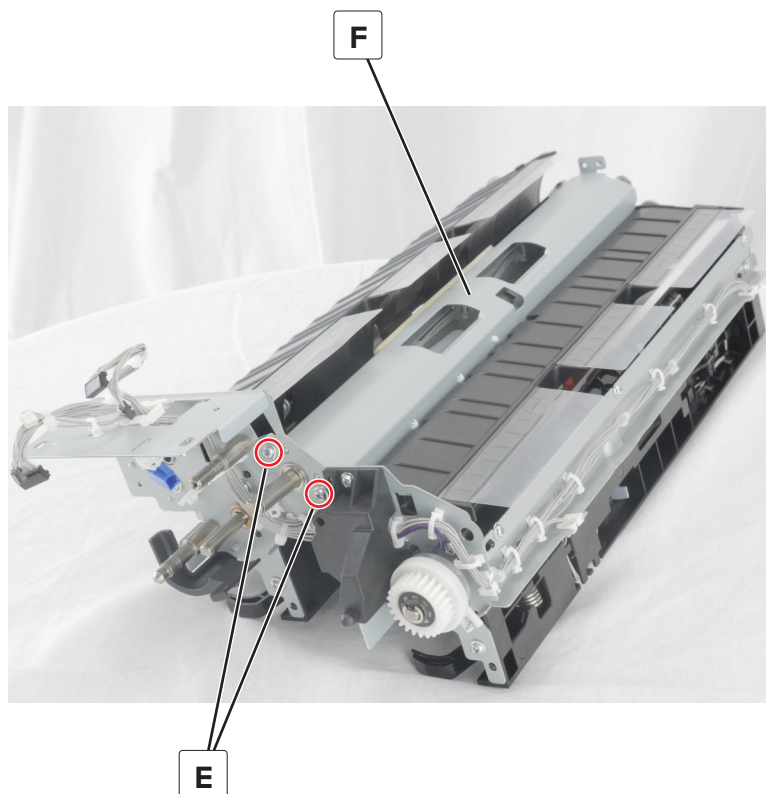


Warning—Potential Damage: Do not lose the bushing (D).

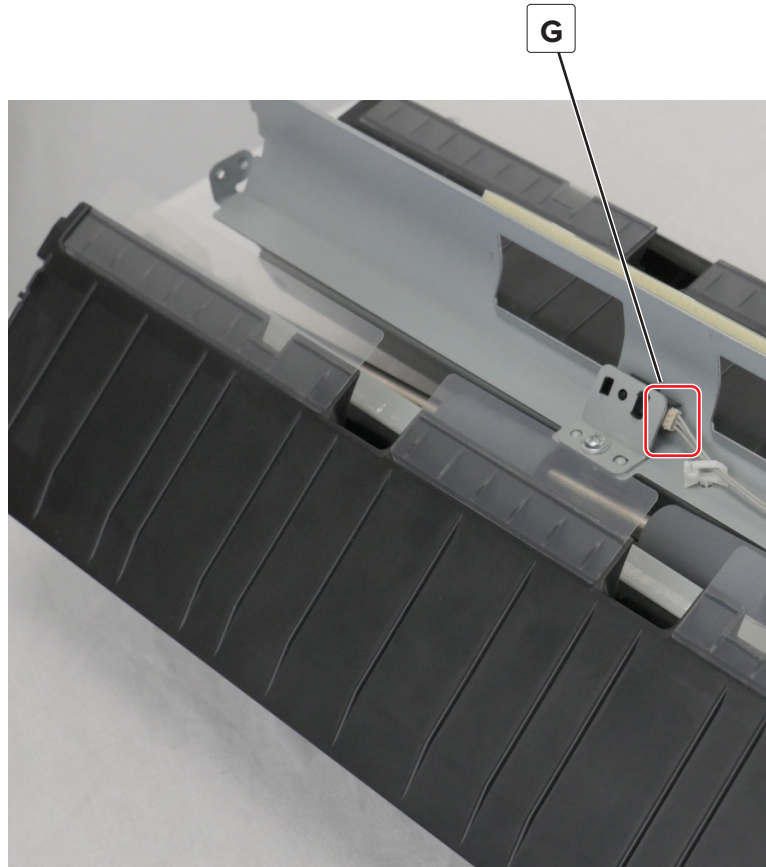


- 3** Remove the tray 2 transport gear. See [“Tray 2 transport gear removal” on page 731](#).
- 4** Remove the tray 2 feed gear. See [“Tray 2 feed gear removal” on page 716](#).
- 5** Remove the tray 2 transport clutch. See [“Tray 2 transport clutch removal” on page 729](#).
- 6** Remove the tray 2 feed clutch. See [“Tray 2 feed clutch removal” on page 714](#).

- 7** Remove the two screws (E), and then turn over the bracket (F).



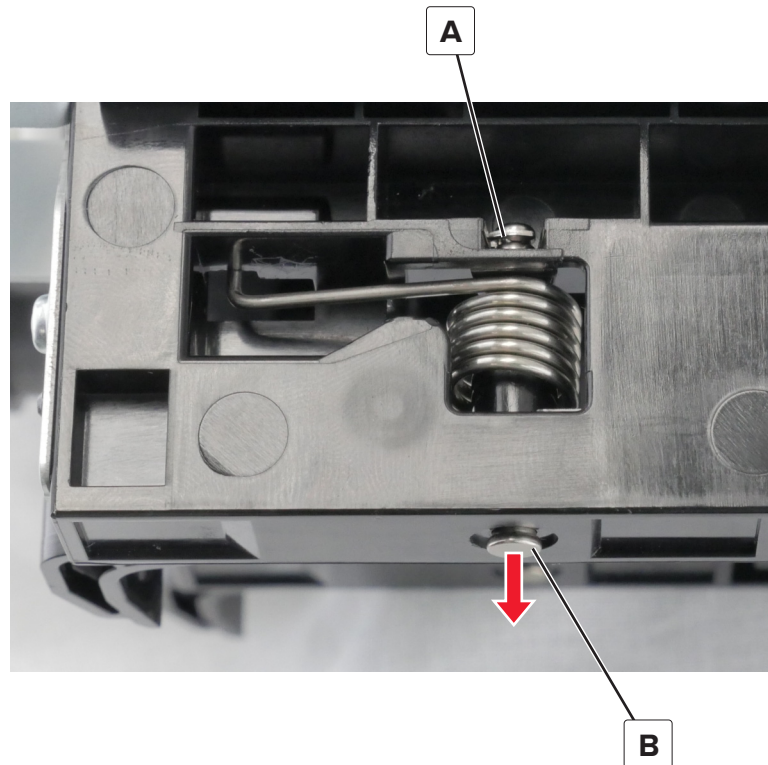
- 8** Disconnect the cable (G), and then remove the cable from the cable guides.



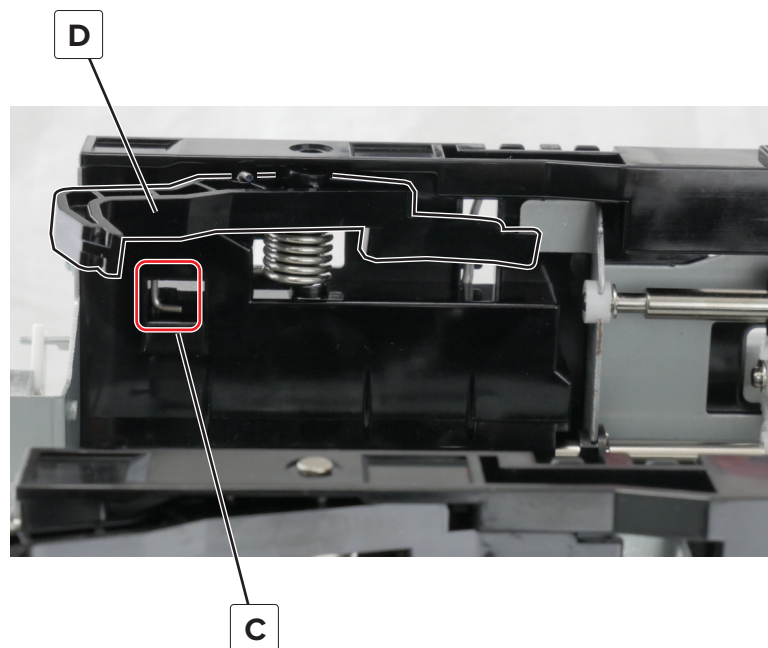
Tray 2 tray set actuator removal

- 1** Remove the tray 1 and 2 paper feed unit. See [“Tray 1 and 2 paper feed unit removal” on page 498](#).
- 2** Remove the tray 1 feed unit. See [“Tray 1 feed unit removal” on page 699](#).
- 3** Remove the tray 1 separator and transport guide assembly. See [“Tray 1 separator and transport guide assembly removal” on page 706](#).

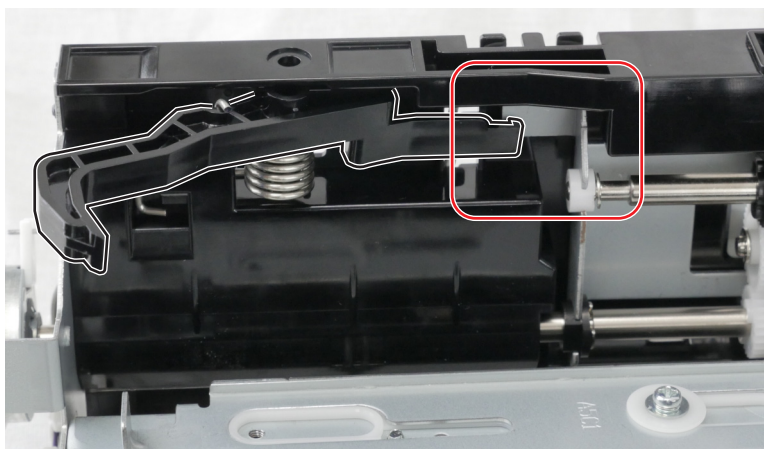
- 4 Remove the E-clip (A), and then remove the shaft (B).



- 5 Unhook the spring (C), and then remove the actuator (D).

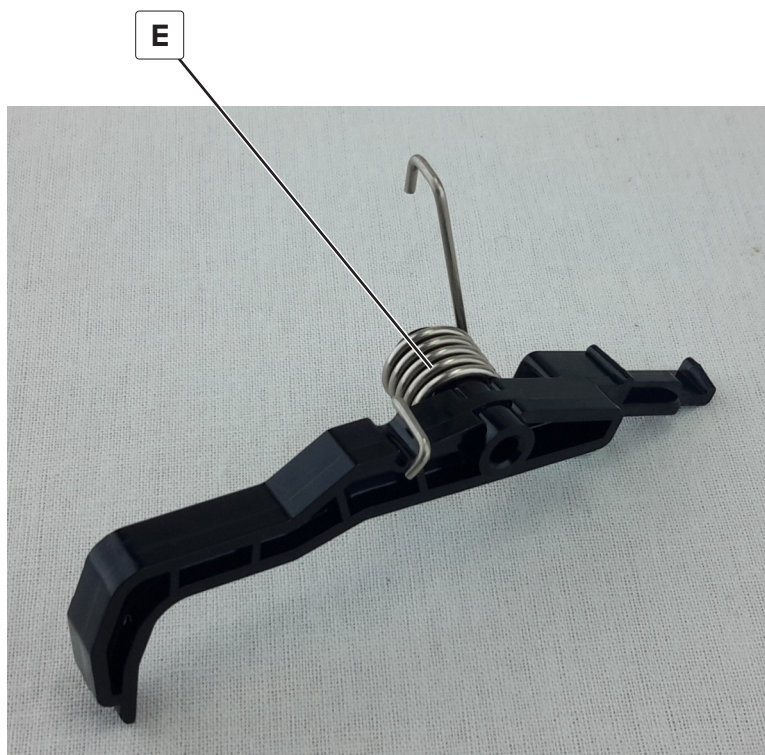


Installation note: Pay attention to the position of the actuator.



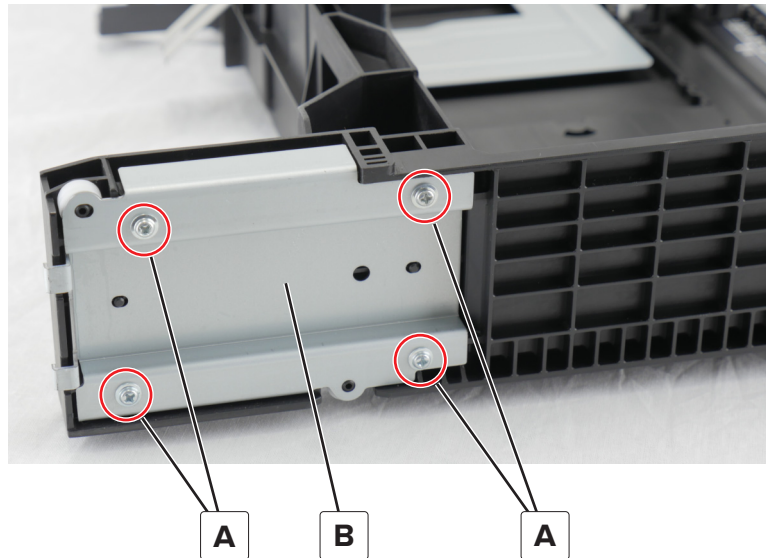
6 Remove the spring (E).

Installation note: Pay attention to the position of the spring.

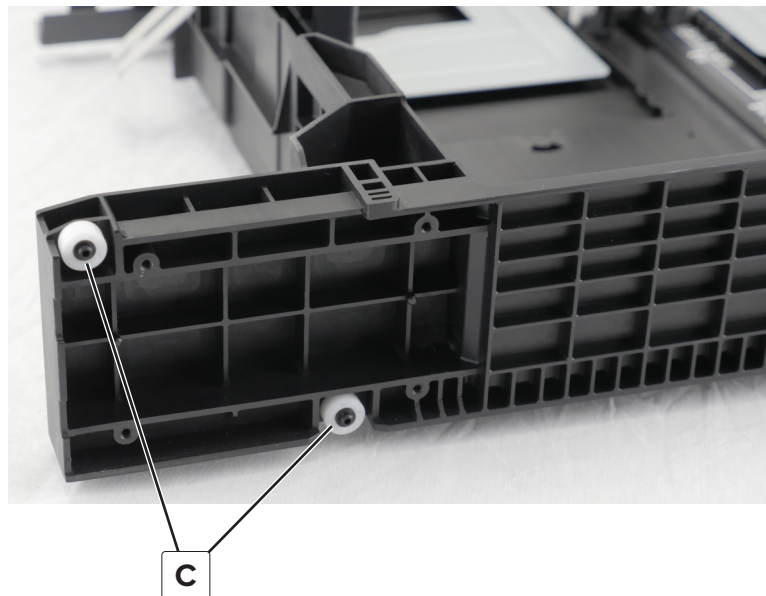


Tray insert guide wheels removal

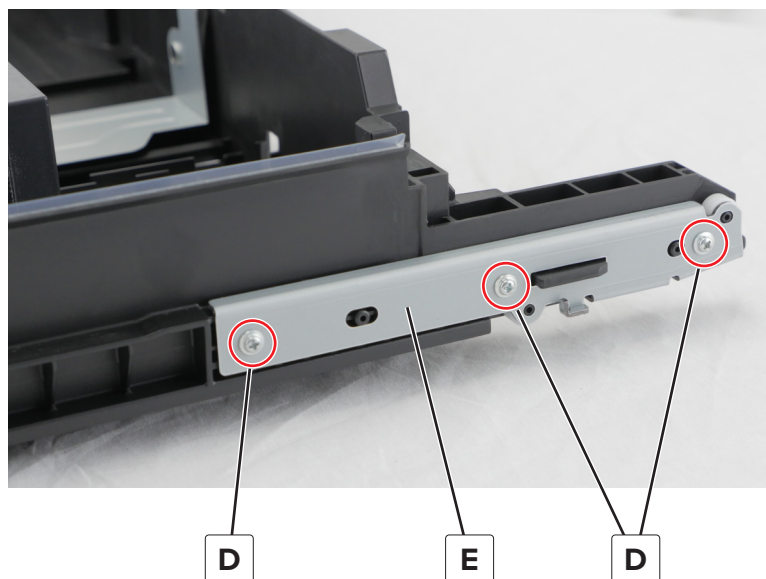
- 1 Remove the tray insert.
- 2 Remove the four screws (A), and then remove the bracket (B).



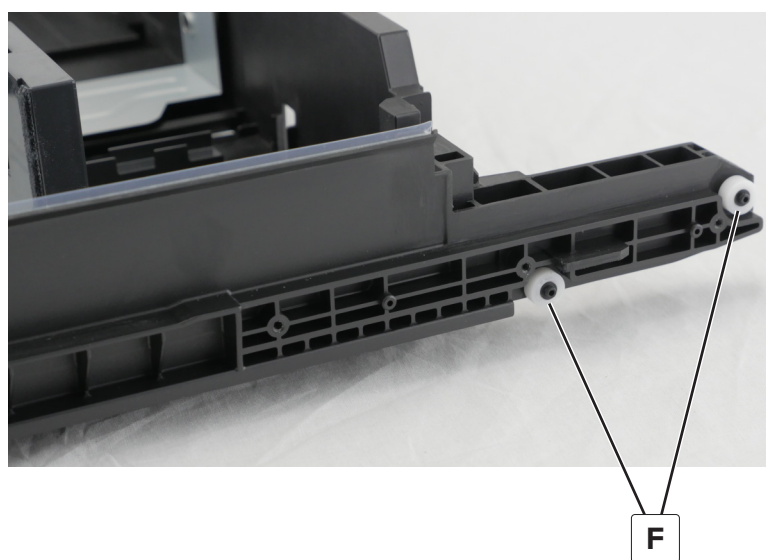
- 3 Remove the two rollers (C).



- 4** Remove the three screws (D), and then remove the bracket (E).

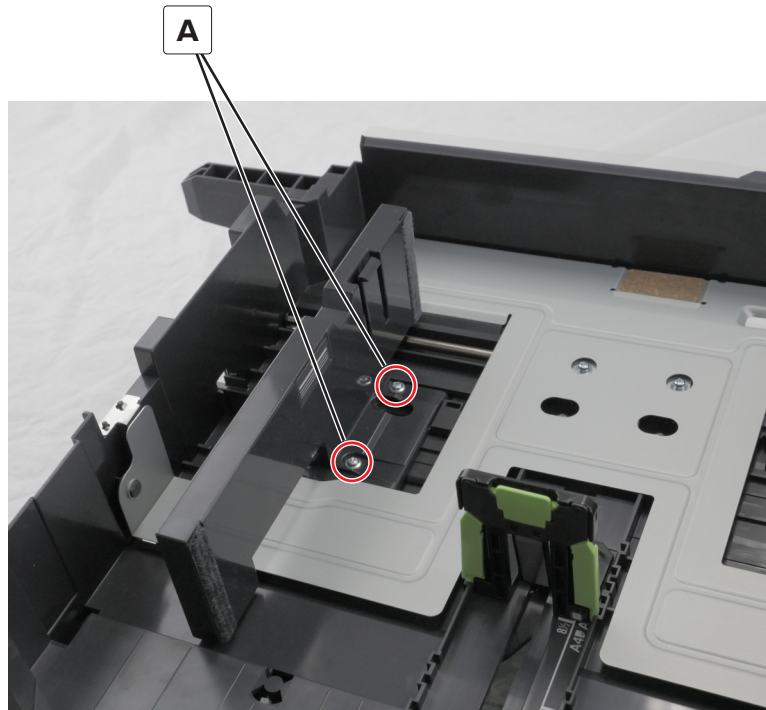


- 5** Remove the two rollers (F).

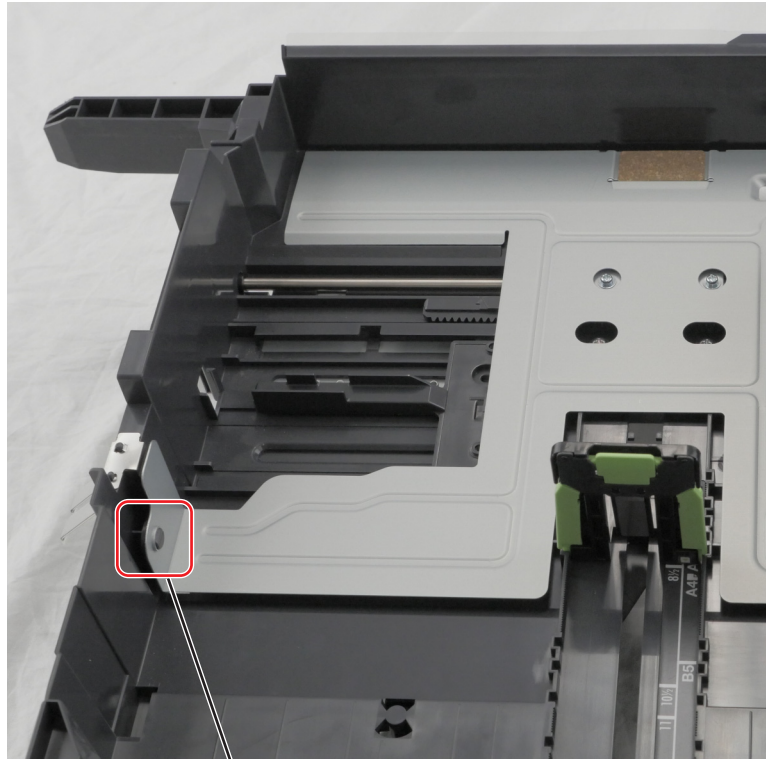


Tray near empty sensor actuator removal

- 1 Remove the tray insert.
- 2 Remove the two screws (A), and then remove the guide.



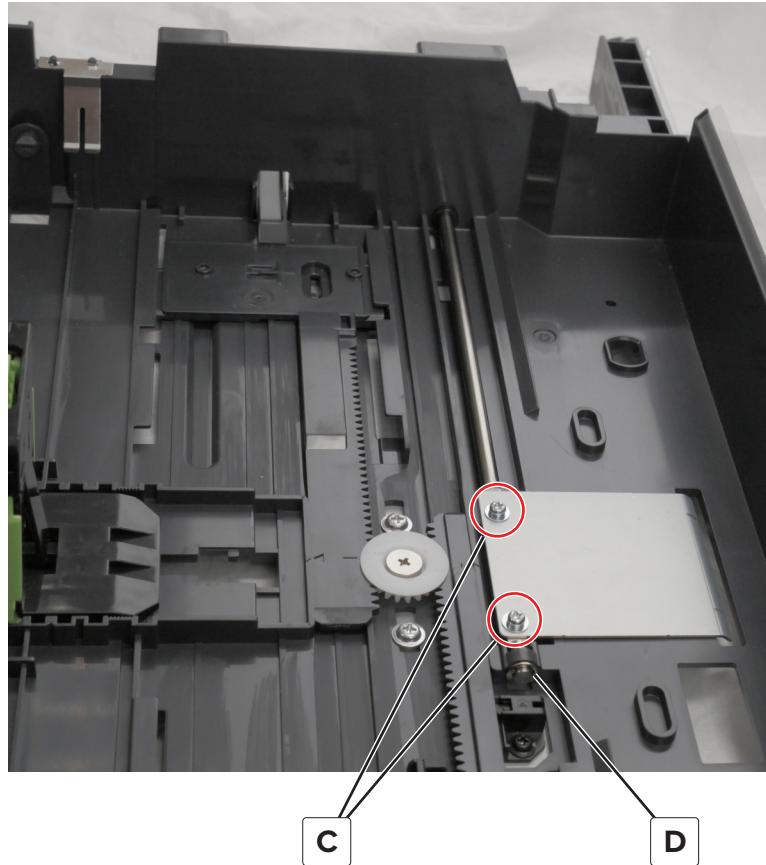
- 3** Release the hinge (B), and then remove the plate.



B

- 4** Remove the two screws (C), and then remove the plate.

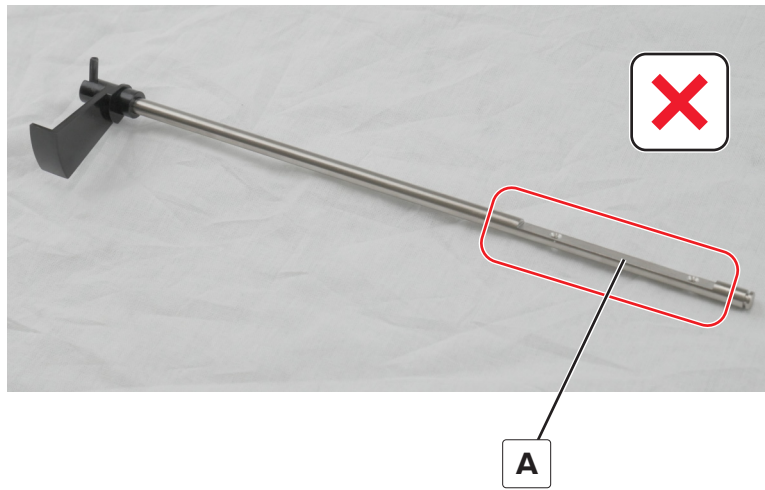
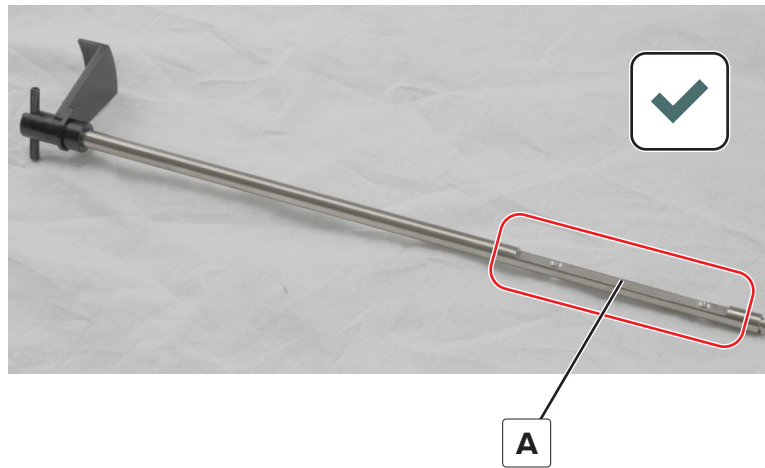
- 5 Remove the E-clip (D), and then remove the shaft.



- 6 Remove the actuator.



Installation note: Install the actuator as shown. Take note of the position of the actuator and the flat section (A) of the shaft.



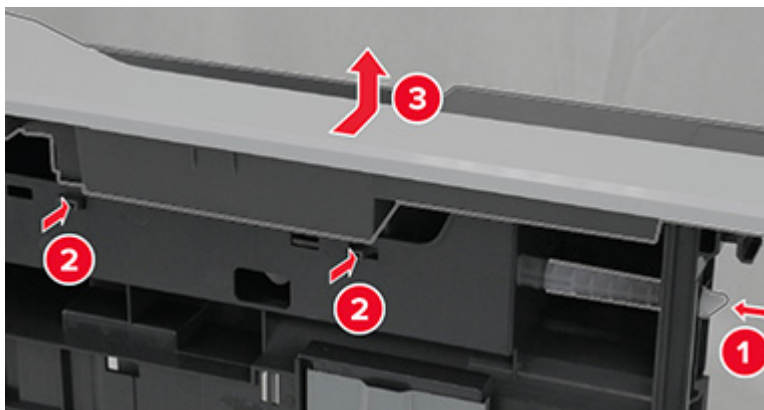
Tray lock removal

- 1 Remove the tray insert.
- 2 Under the tray, remove the two screws (A).

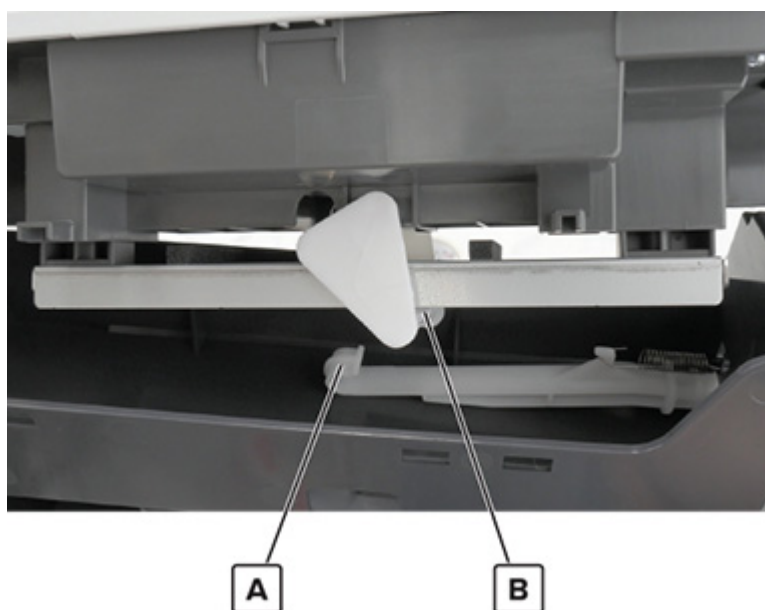


Parts removal

- 3** Press and hold the lock, release the tabs, and then remove the cover.



Installation note: Make sure that the lock hook (A) is fastened to the bar (B).

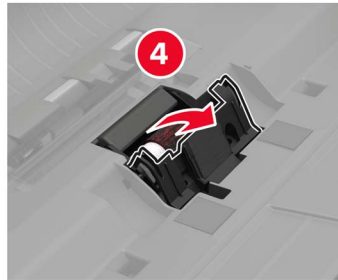
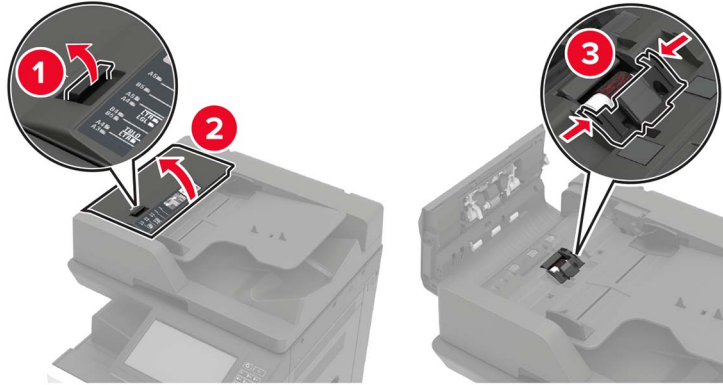


- 4** Unhook the spring from the lock, and then remove the lock.

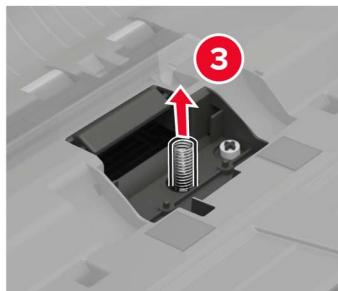
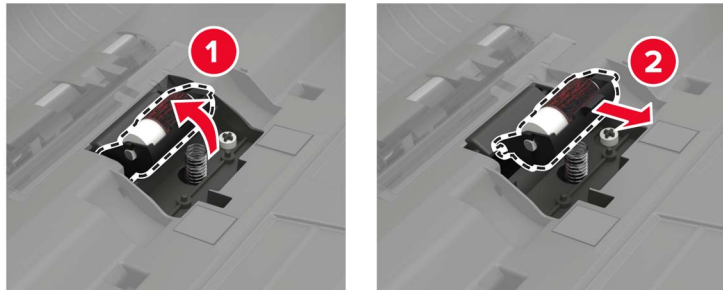
ADF and flatbed removals

ADF separator pad, roller, and spring removal

- 1 Remove the ADF separator pad.



- 2 Remove the ADF separator roller, and then remove the ADF separator roller spring.



ADF assembly removal

Note: Make sure to perform ADF height adjustment after replacing the ADF assembly. See [“ADF height adjustment” on page 397](#).

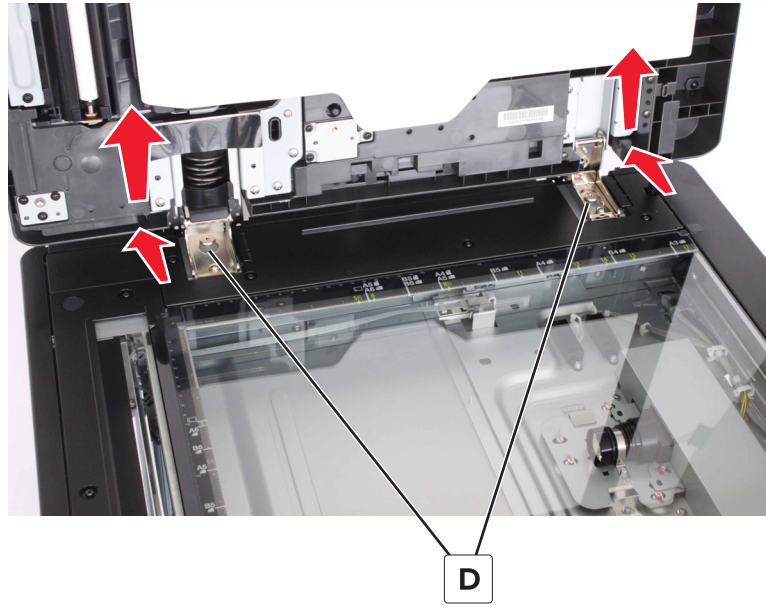
- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the lower rear cover. See [“Lower rear cover removal” on page 606](#).
- 4 Remove the controller board shield. See [“Controller board shield removal” on page 613](#).
- 5 Disconnect the ADF CIS data cable from the controller board.

Installation note: The ADF CIS data cable and scanner CCD cable connections are not interchangeable. If either of the cables are connected to the wrong socket, an invalid scanner code error occurs.

- 6 Disconnect the three cables (C), and then release them from the holder (D).



- 7 Open the ADF, and then remove the two screws (D).

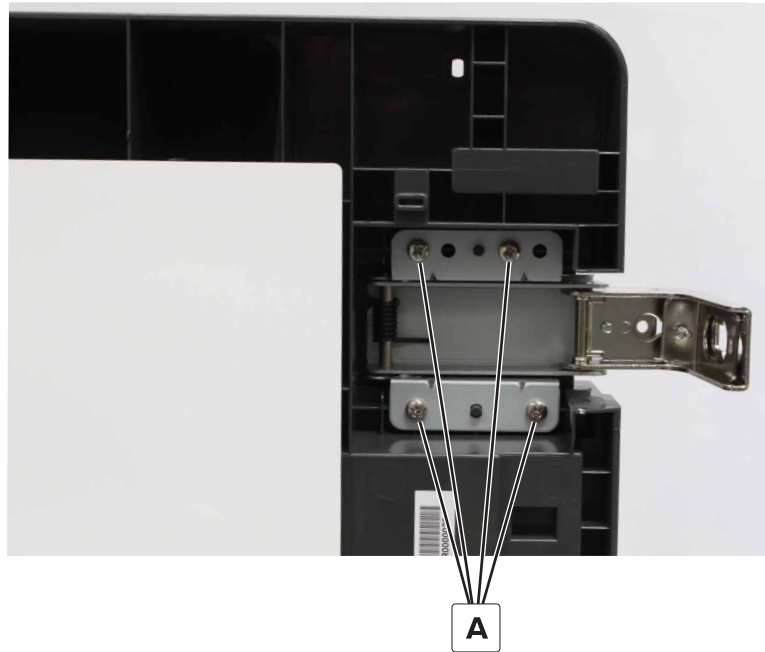
8 Remove the ADF.

Warning—Potential Damage: Be careful not to break the ADF angle open actuator.



ADF right hinge removal

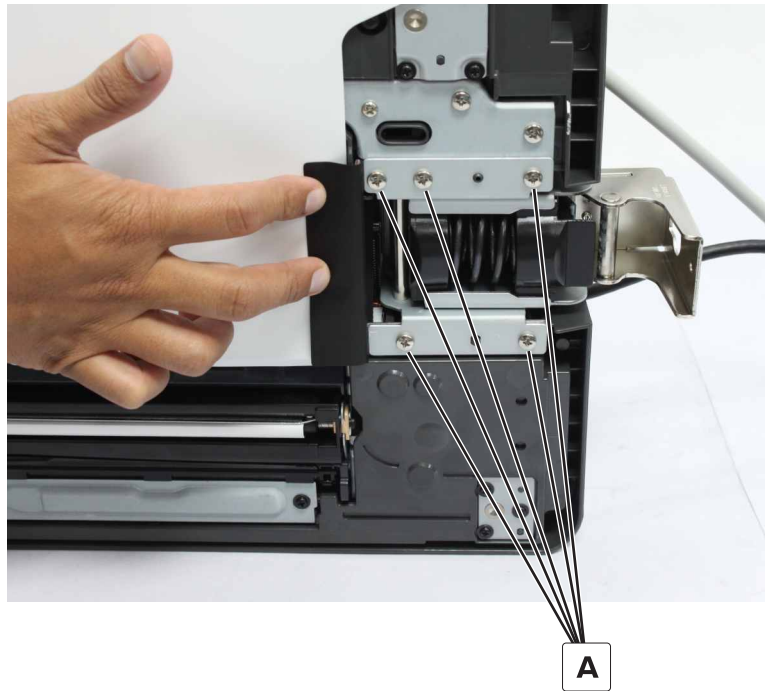
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the four screws (A) securing the right hinge.



- 3 Remove the hinge.

ADF left hinge removal

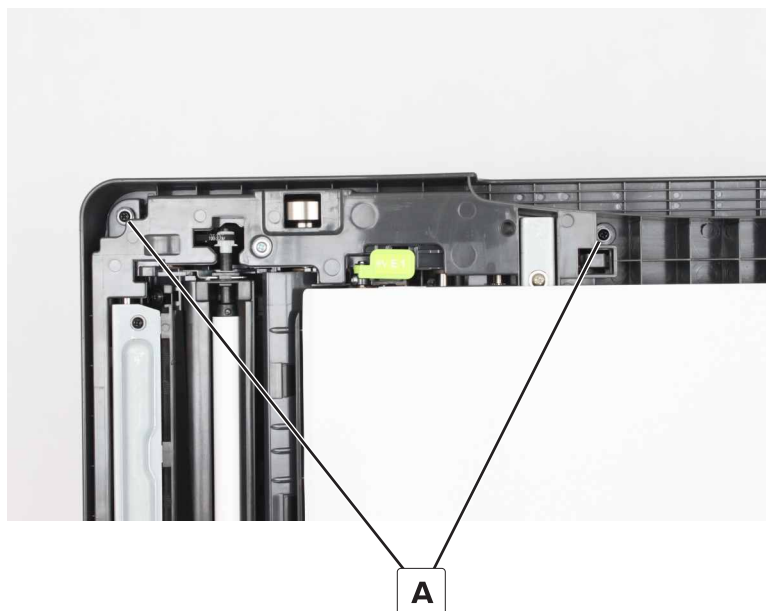
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the five screws (A) securing the left hinge.



- 3 Remove the hinge.

ADF front cover removal

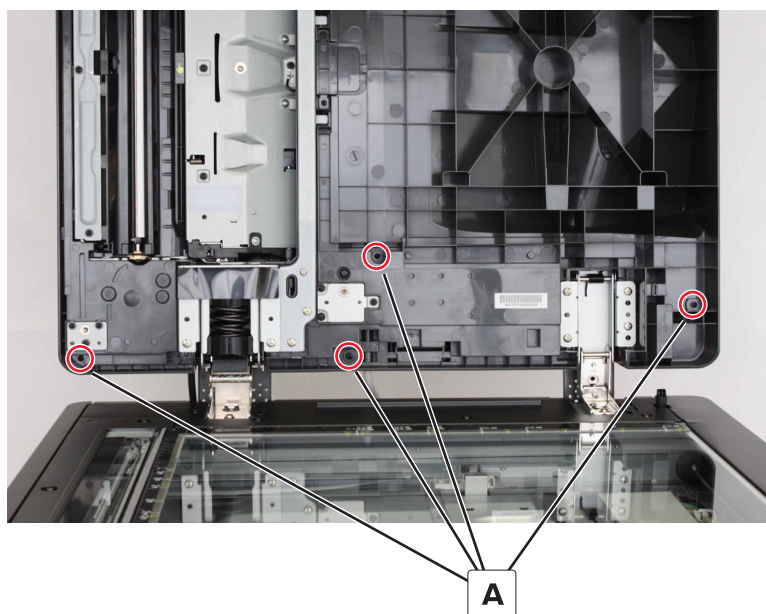
- 1 Open the ADF.
- 2 Remove the two screws (A) from the ADF front cover.



- 3 Remove the cover.

ADF rear cover removal

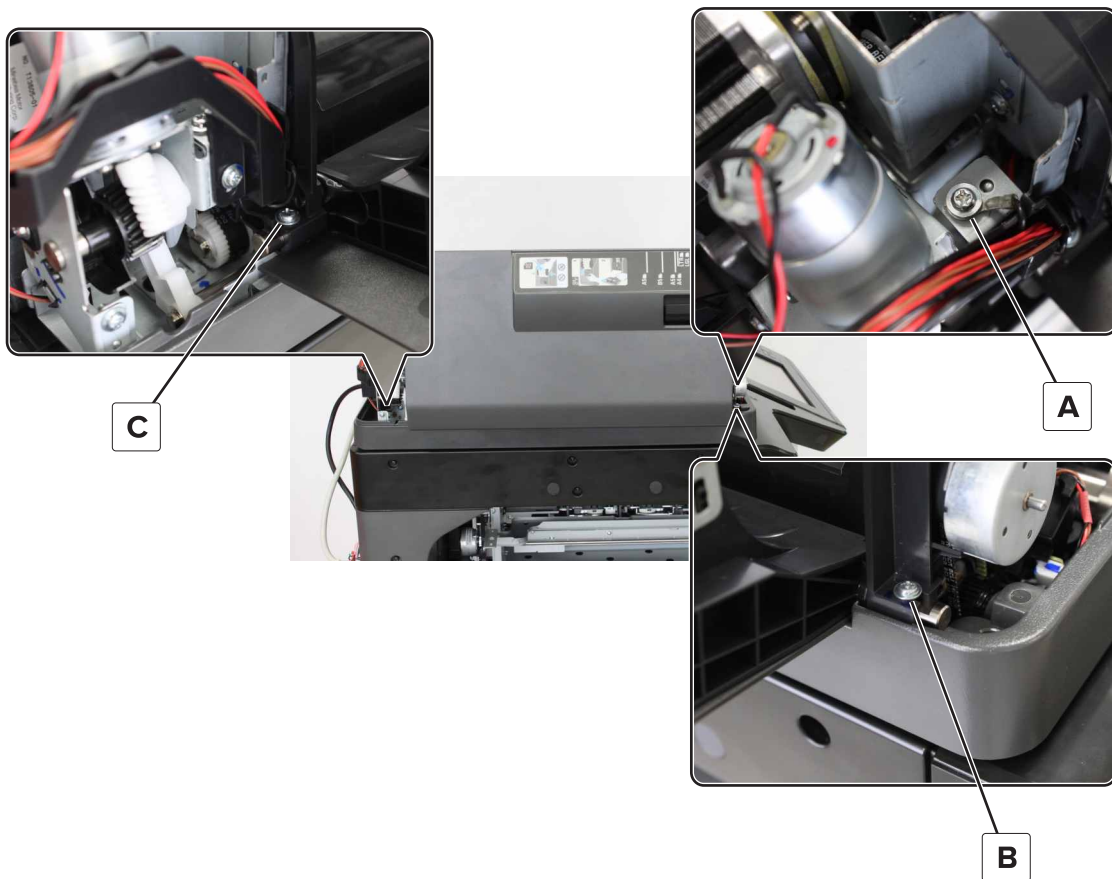
- 1 Open the ADF.
- 2 Remove the four screws (A) securing the ADF rear cover.



- 3 Close the ADF.
- 4 Open the ADF top cover, and then remove the ADF rear cover.

ADF top cover assembly removal

- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 2 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 3 Disconnect the J14 cable from the ADF controller board.
- 4 Remove the ground screw (A) from the rear of the ADF top cover assembly.
- 5 Remove the screws (B) (C) from the shafts on the front and rear of the ADF top cover assembly, and then remove the shaft.

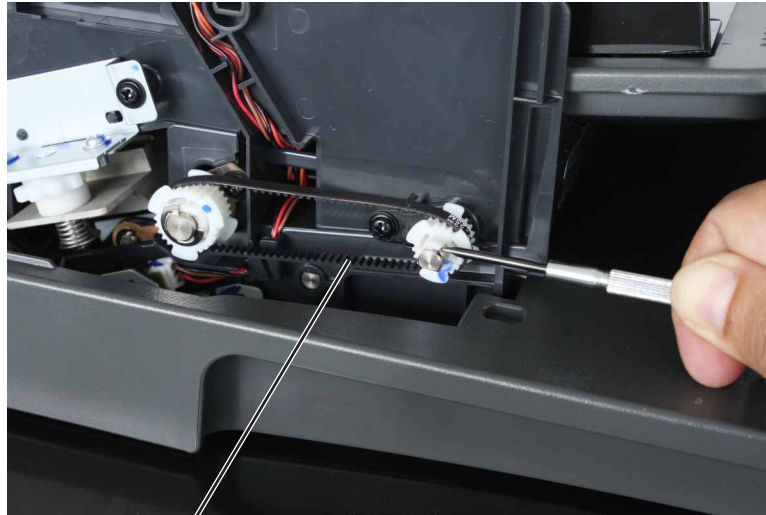


- 6 Remove the ADF top cover assembly.

ADF scan/exit roller belt removal

- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 2 Pry the latch to release the gear from the shaft.

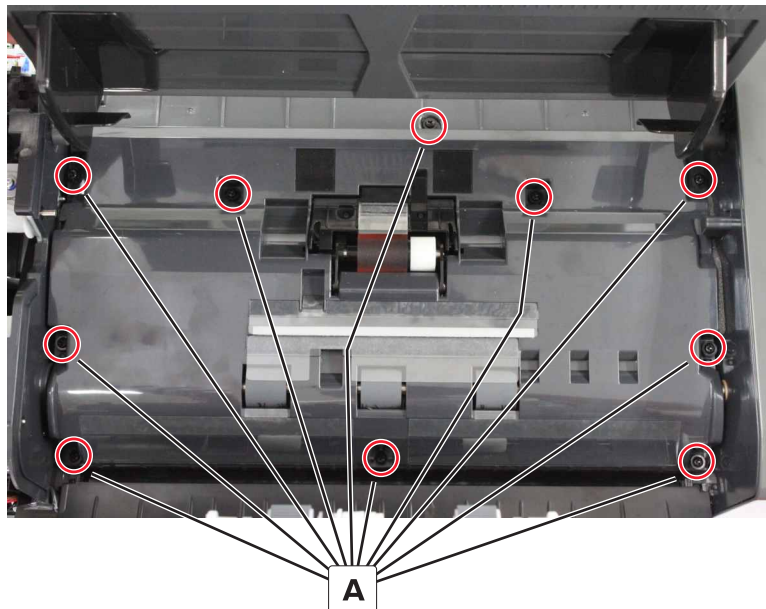
- 3 Pull out the gear, and then remove the belt (A).



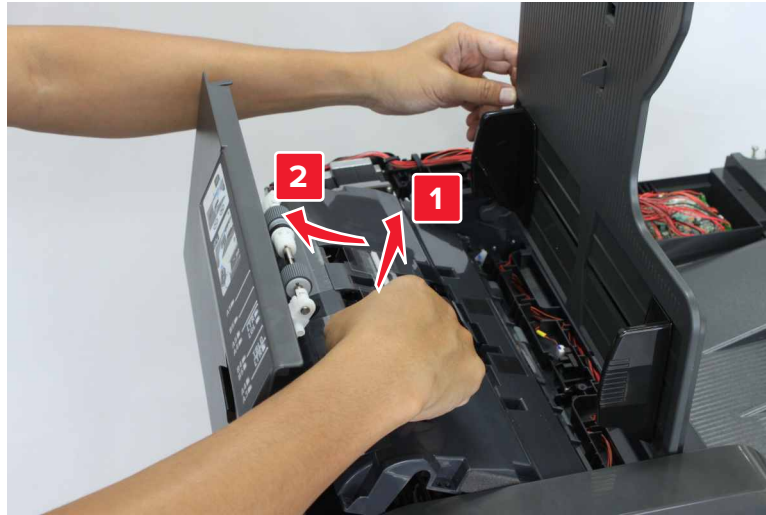
A

ADF registration guide removal

- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 2 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 3 Remove the 10 screws (A).

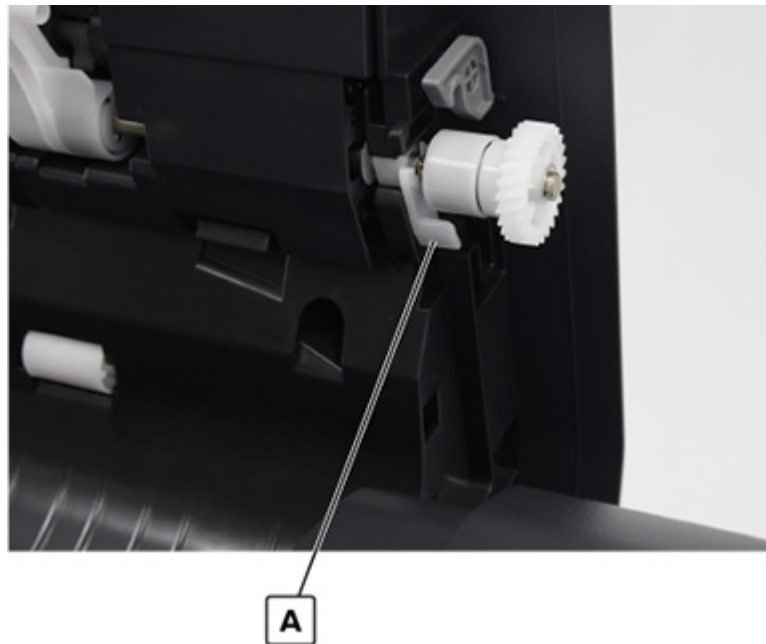


- 4 Lift the part, and then slide it to remove.

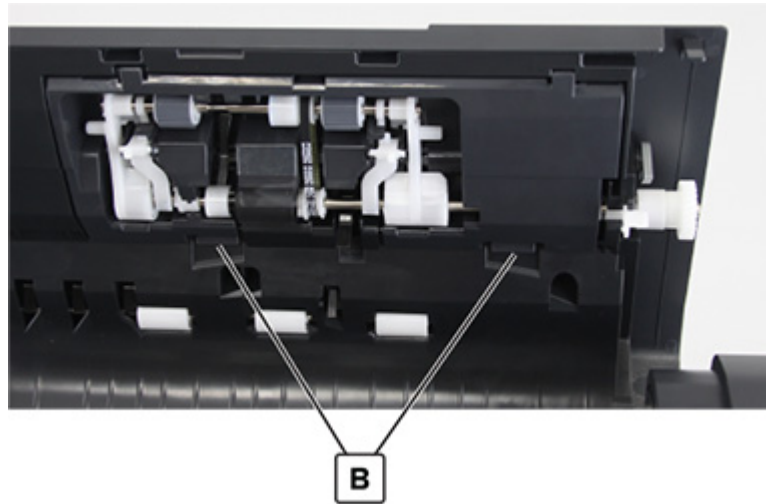


ADF pick and feed assembly removal

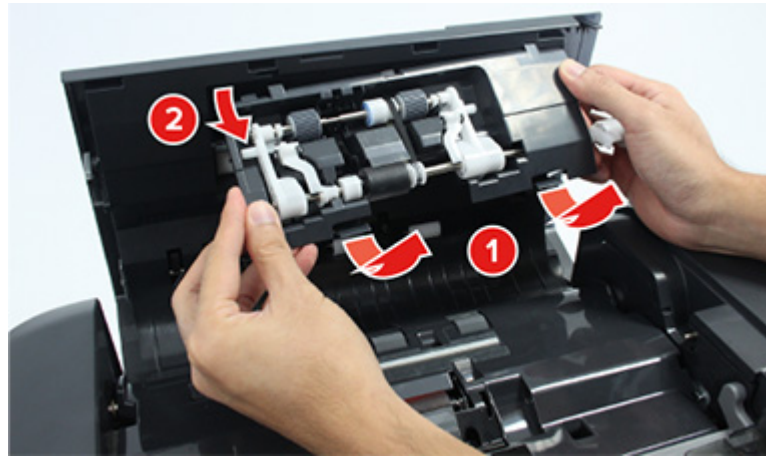
- 1 Open the ADF door, and then unlock the lever (A).



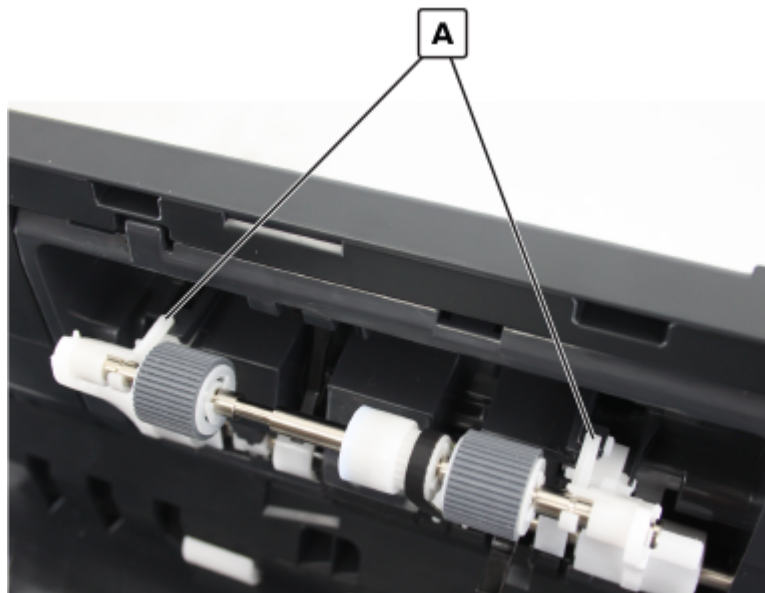
- 2** Release the two latches (B).



- 3** Remove the assembly.

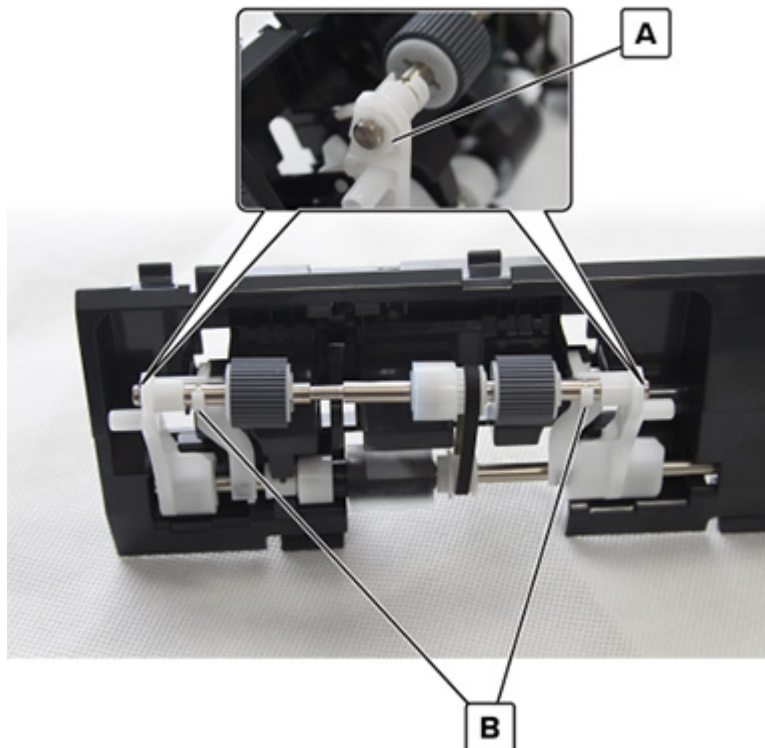


Installation note: Make sure that the arms (A) sit on top of their tabs. Rotate the drive gear, and then check if the rollers rotate properly.

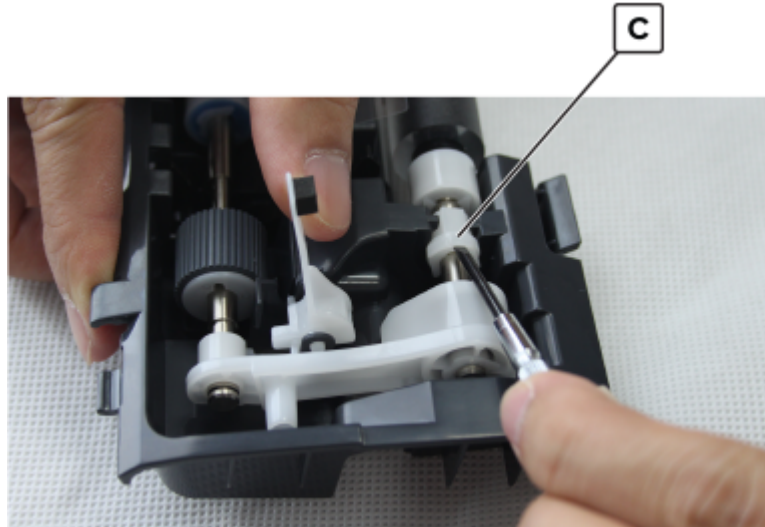


ADF pick assembly removal

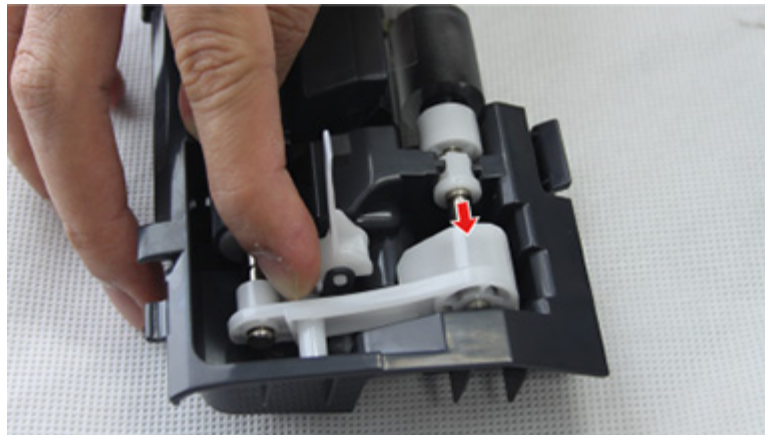
- 1 Remove the ADF pick assembly. See [“ADF pick and feed assembly removal” on page 754.](#)
- 2 Remove the two arms (B).



- 3 Pry the clip (C) to release, and then remove it.



- 4 Move the bushing to unlock the roller shaft.

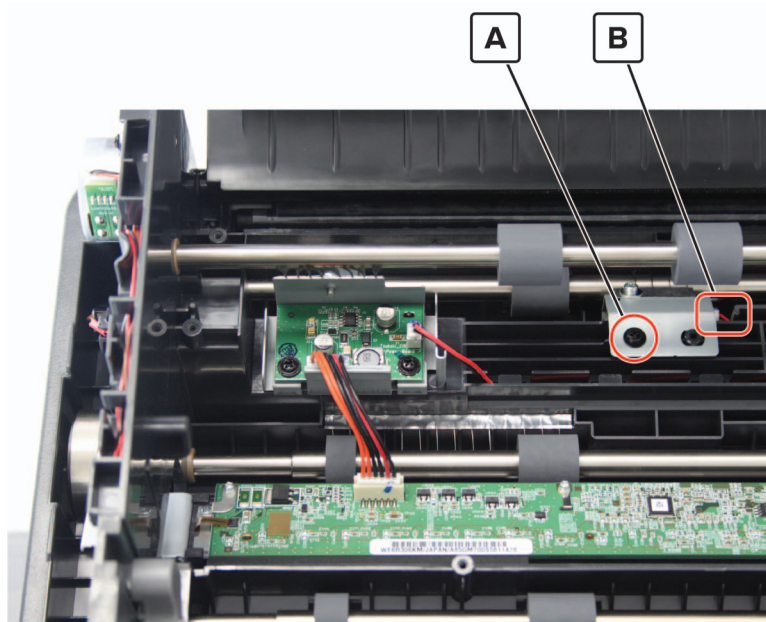


- 5 Remove the assembly.

Sensor (ADF scan) removal

- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 2 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 3 Remove the ADF registration guide. See [“ADF registration guide removal” on page 753.](#)

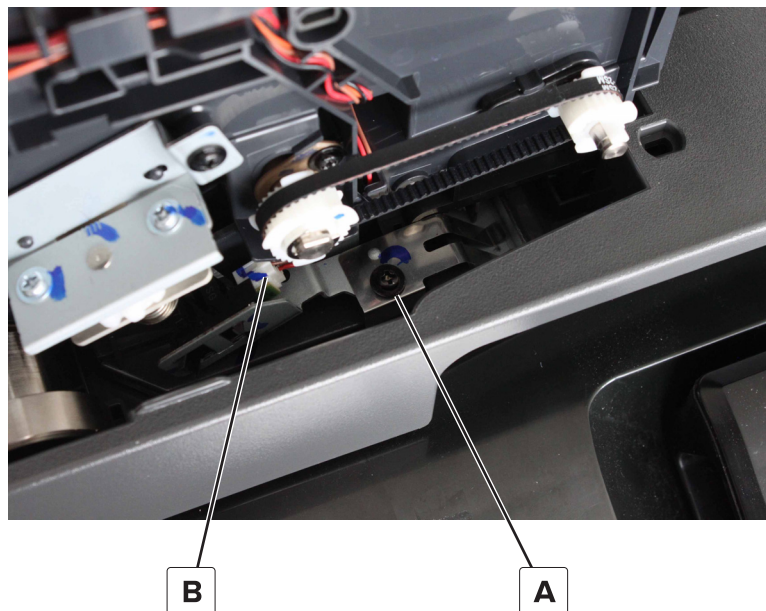
- 4** Remove the screw (A), and then disconnect the cable (B).



- 5** Remove the sensor from its bracket.

Sensor (ADF jam access cover) removal

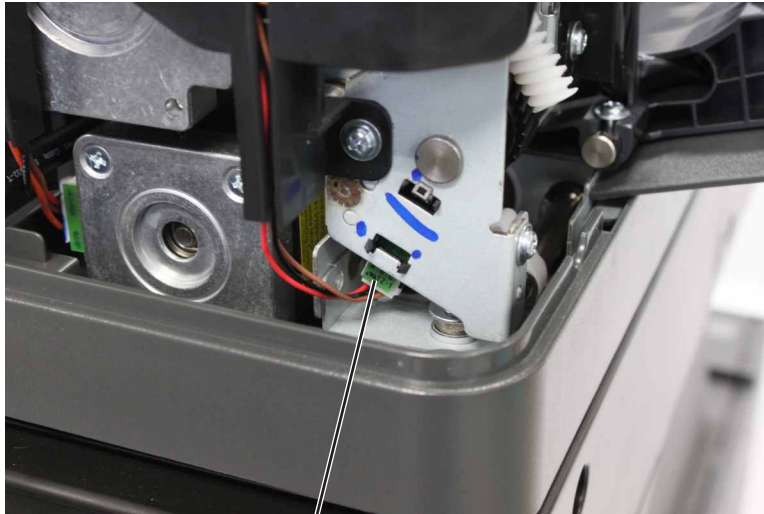
- 1** Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 2** Remove the screw (A), and then disconnect the cable (B).



- 3** Remove the sensor.

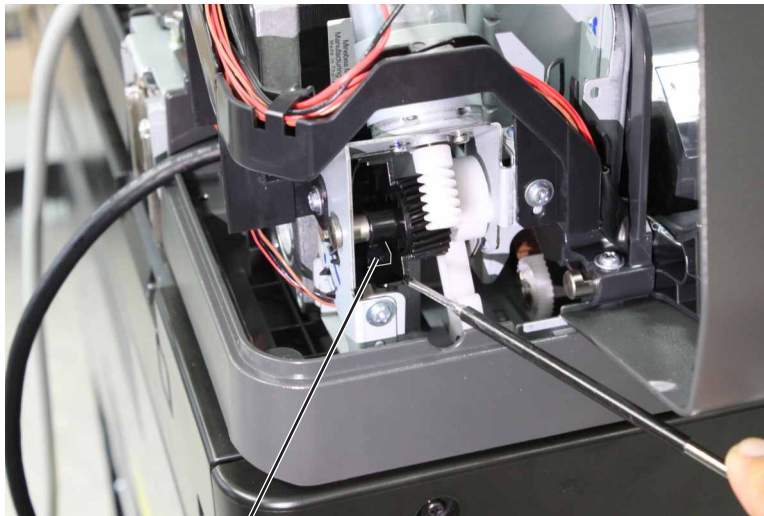
Sensor (ADF scan shaft home) removal

- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 2 Disconnect the cable (A).



A

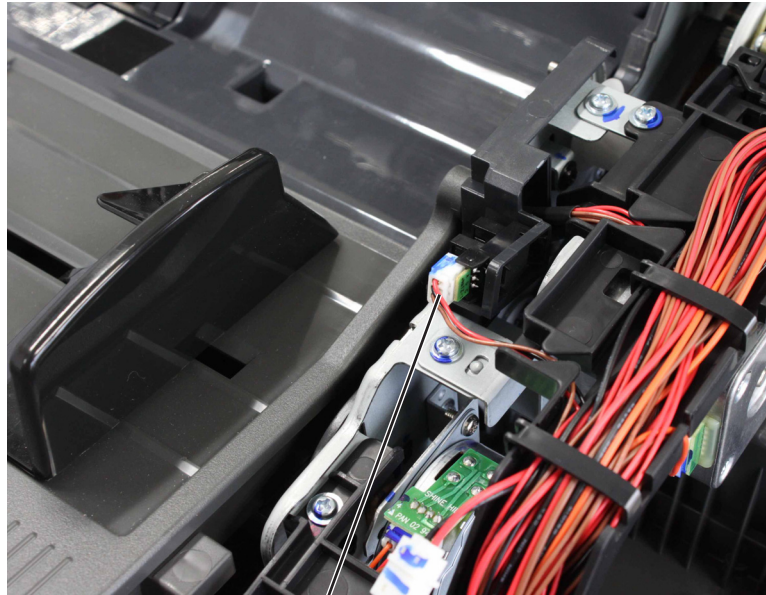
- 3 Rotate the gear until the sensor (B) is unblocked, and then remove the sensor.



B

Sensor (ADF top cover open) removal

- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 2 Disconnect the cable (A), and then remove the sensor.

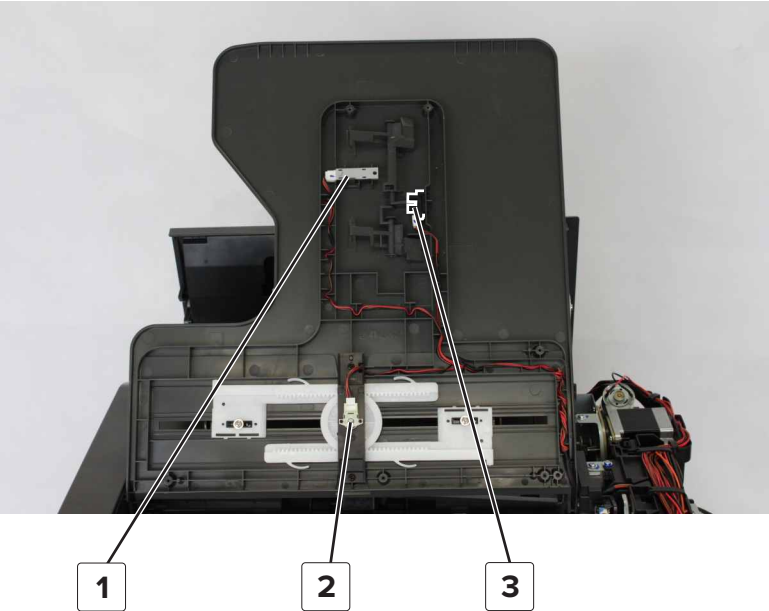


A

Sensors (ADF tray section) removal

- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 2 Remove the ADF tray bottom cover. See [“ADF tray bottom cover removal” on page 791.](#)
- 3 Disconnect the cable from the appropriate sensor.

4 Remove the appropriate sensor.

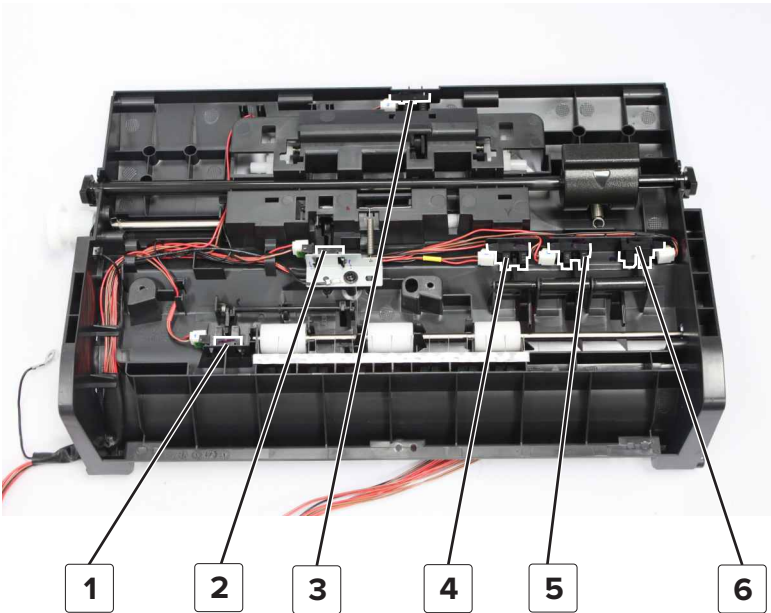


| # | Description |
|---|-----------------------------|
| 1 | Sensor (ADF paper length 1) |
| 2 | Sensor (ADF paper width) |
| 3 | Sensor (ADF paper length 2) |

Sensors (ADF top open cover section) removal

- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 2 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 3 Remove the ADF top cover assembly. See [“ADF top cover assembly removal” on page 752.](#)
- 4 Remove the ADF top cover. See [“ADF top cover removal” on page 800.](#)
- 5 Disconnect the cable from the appropriate sensor.

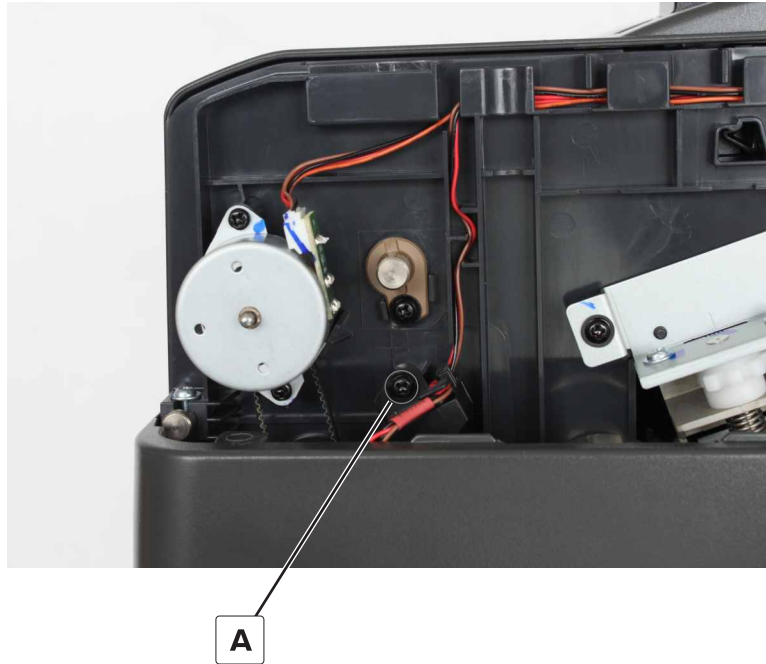
6 Remove the appropriate sensor.



| # | Description |
|---|----------------------------------|
| 1 | Sensor (ADF registration) |
| 2 | Sensor (ADF document separation) |
| 3 | Sensor (ADF tray empty) |
| 4 | Sensor (ADF mixed paper width 1) |
| 5 | Sensor (ADF mixed paper width 2) |
| 6 | Sensor (ADF mixed paper width 3) |

Sensor (scan glass clean) removal

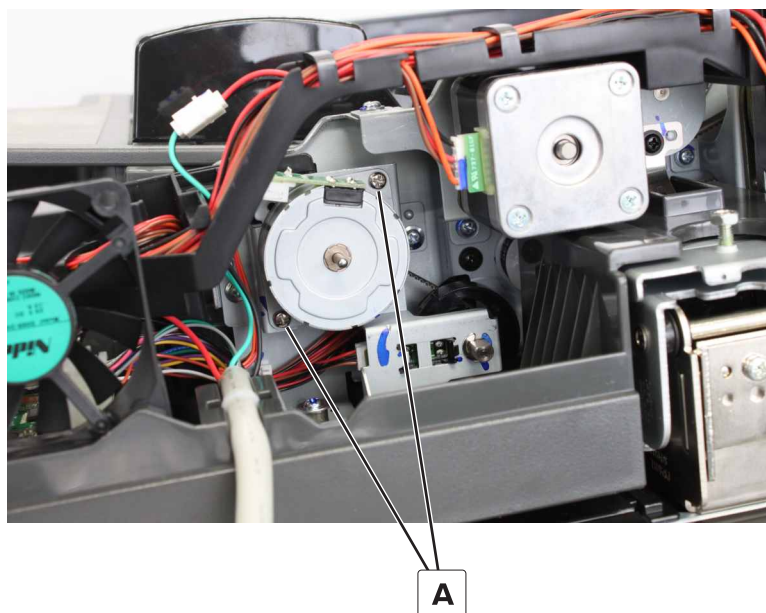
- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 2 Remove the screw (A).



- 3 Disconnect the cable, and then remove the sensor.

Motor (ADF CIS clean) removal

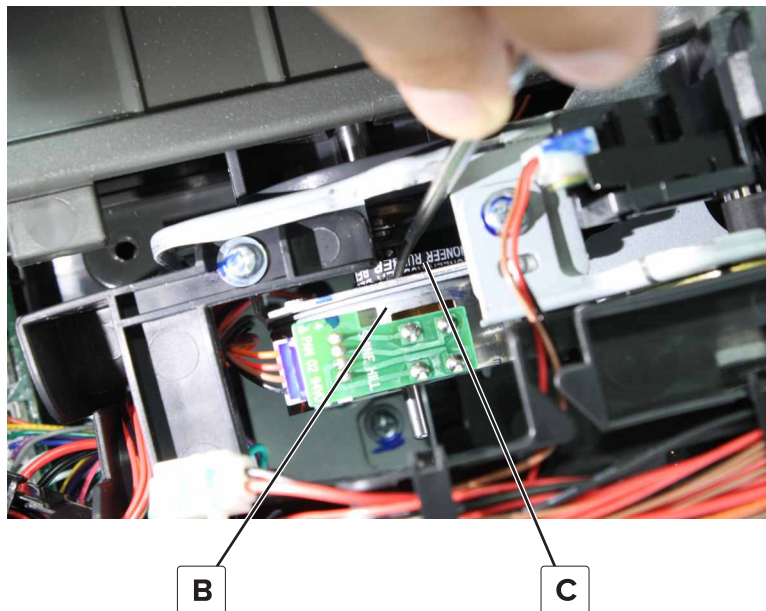
- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Remove the two screws (A).



Parts removal

- 3 Release the motor (B) from the motor belt (C).

Note: Use a spring hook.

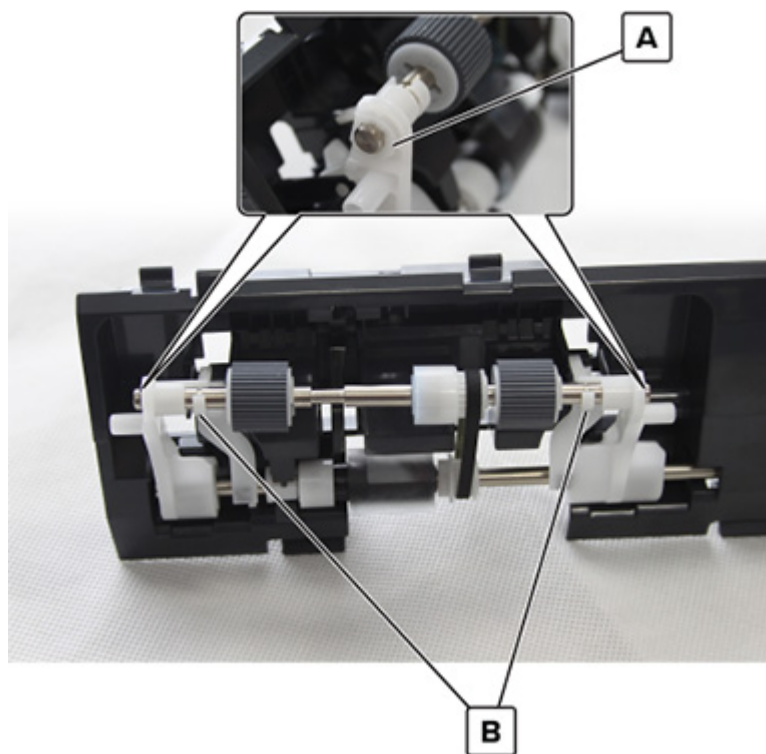


- 4 Disconnect the cable from the motor, and then remove the motor.

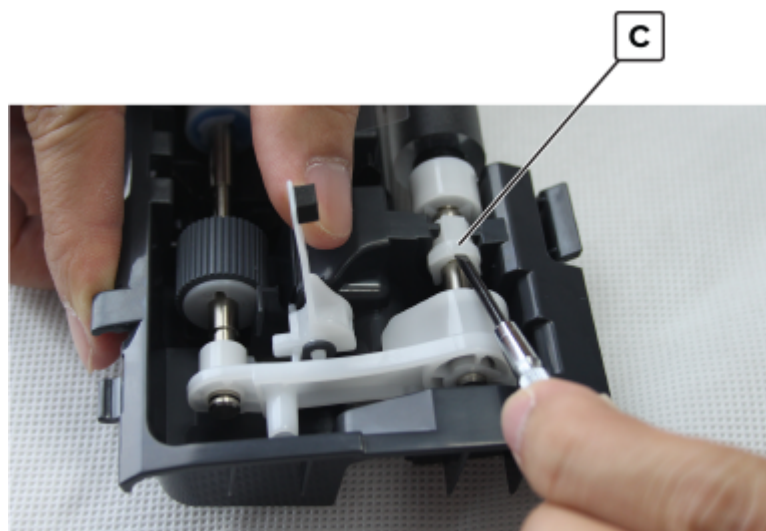
ADF feed roller removal

- 1 Remove the ADF pick assembly. See [“ADF pick and feed assembly removal” on page 754](#).
- 2 Remove the two clips (A) and two arms (B).

Installation warning: Do not lose the clips.

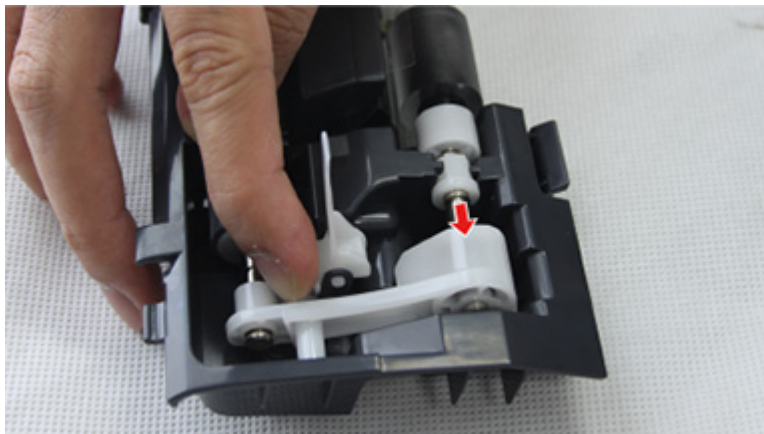


3 Pry the clip (C) to release, and then remove it.

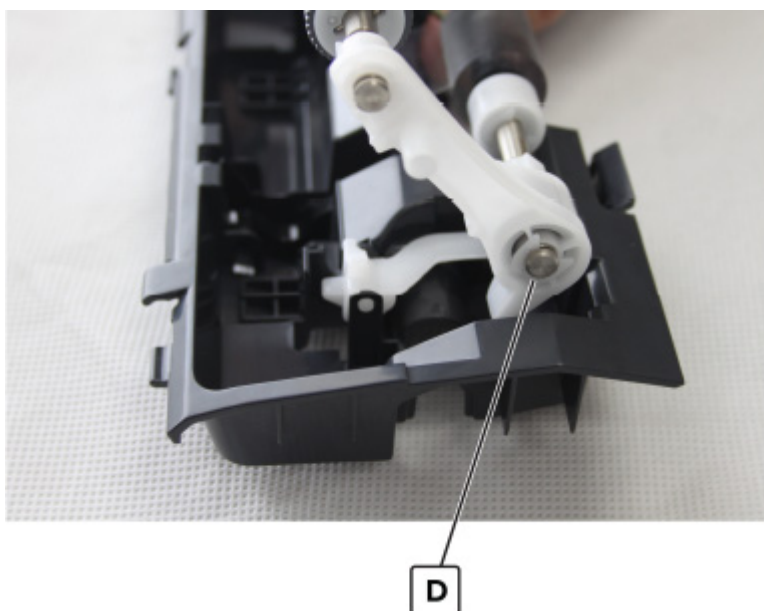


Parts removal

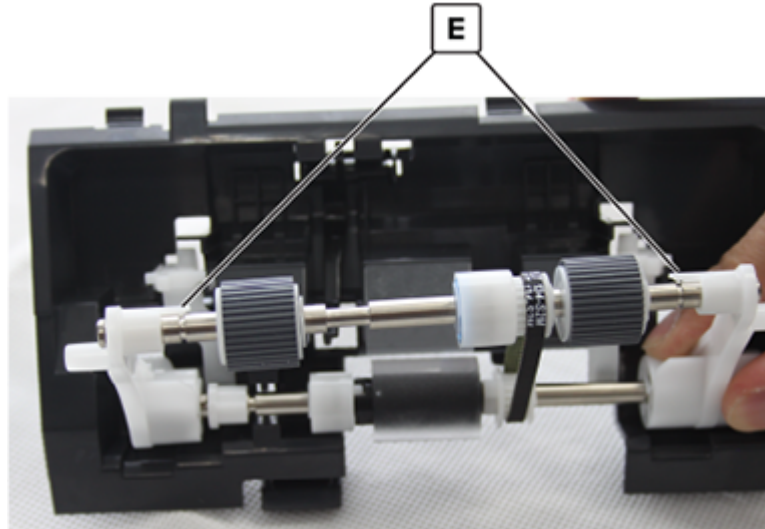
- 4** Move the bushing to unlock the roller shaft.



- 5** Lift the roller assembly, and then remove the clip (D).

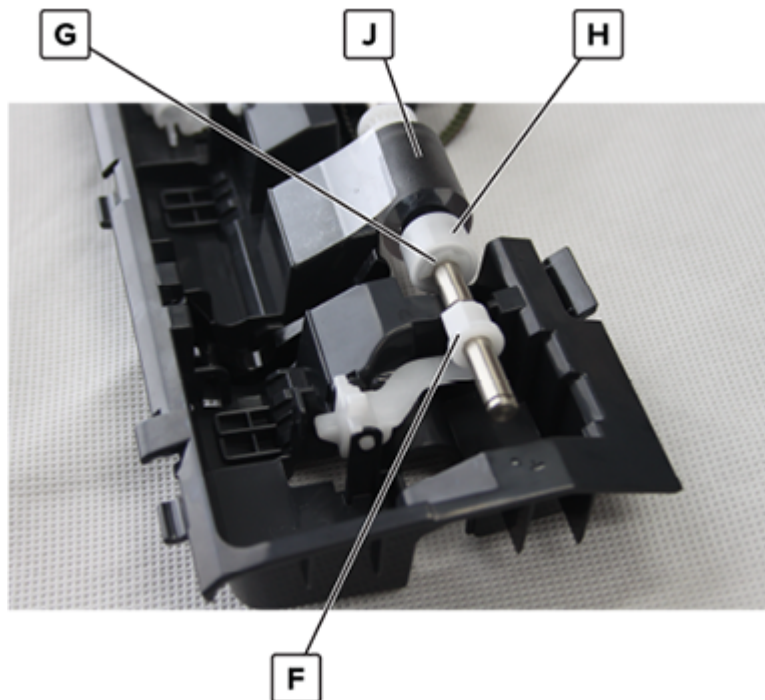


- 6** Release the latches (E), and then remove the shaft supports.



- 7** Remove the bushing (F) and clip (G).

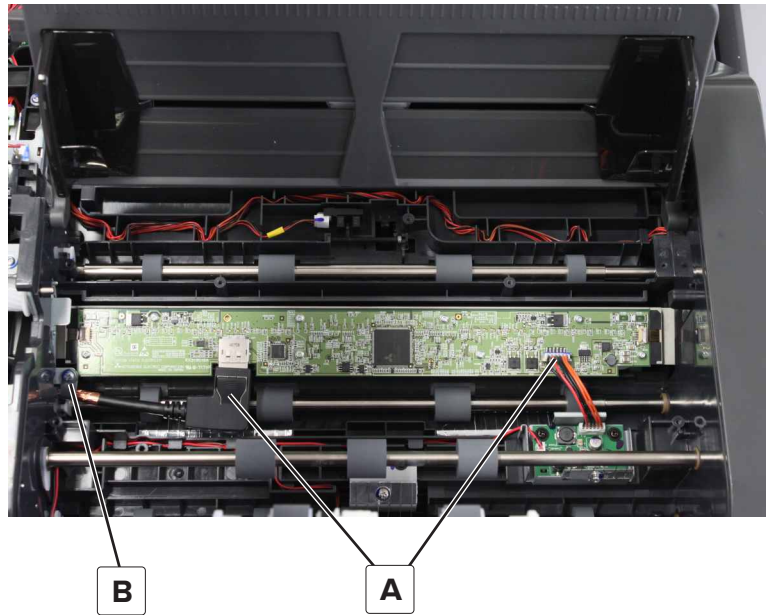
- 8** Remove the clutch (H), and then remove the roller (J).



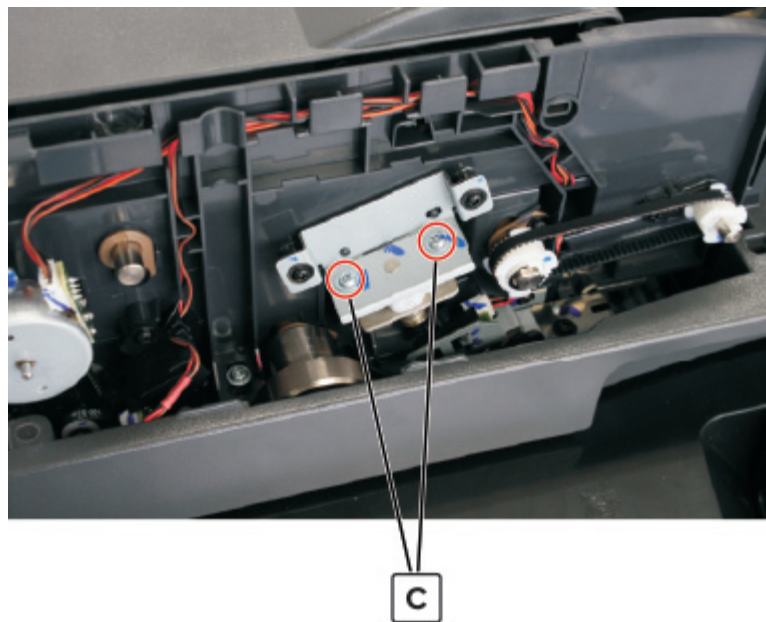
ADF CIS assembly removal

- 1** Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 2** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 3** Remove the ADF registration guide. See [“ADF registration guide removal” on page 753](#).

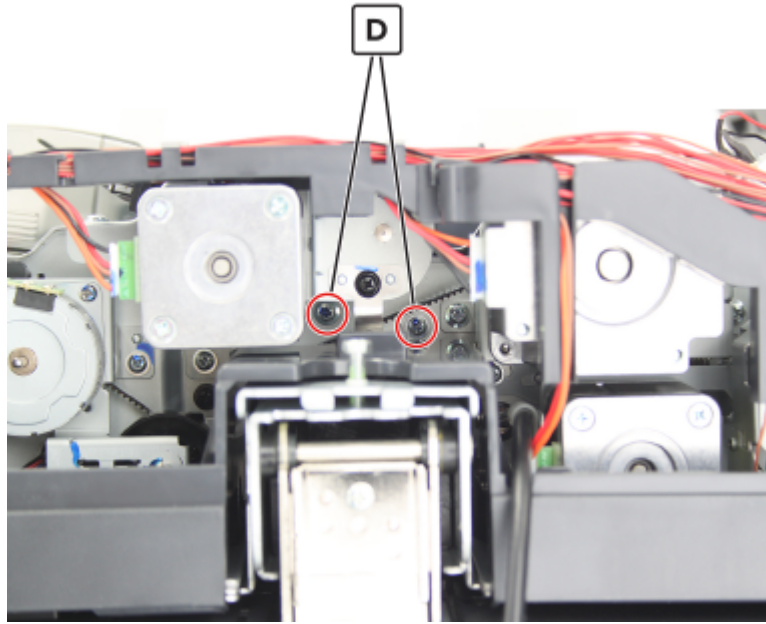
- 4** Disconnect the two cables (A), and then remove the screw (B).



- 5** From the front, remove the two screws (C).

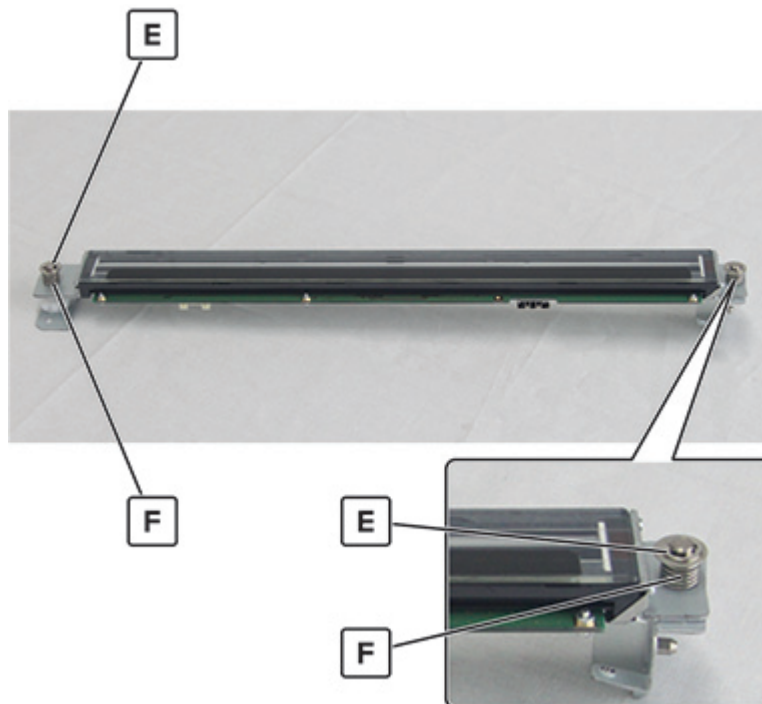


- 6** From the rear, remove the two screws (D).



- 7** Slide, and then remove the assembly bracket.

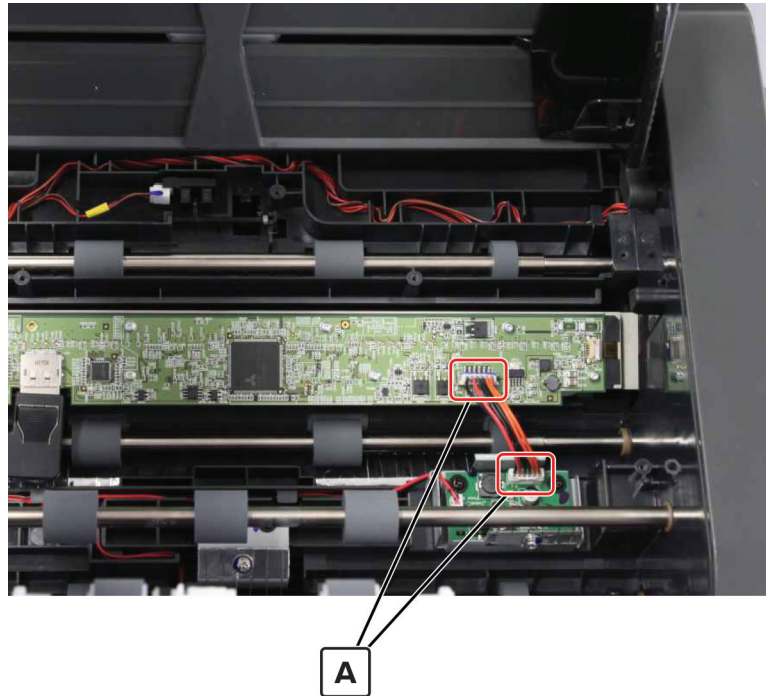
- 8** Remove the two E-clips (E), and then remove the springs (F).



- 9** Remove the assembly.

ADF CIS power supply cable removal

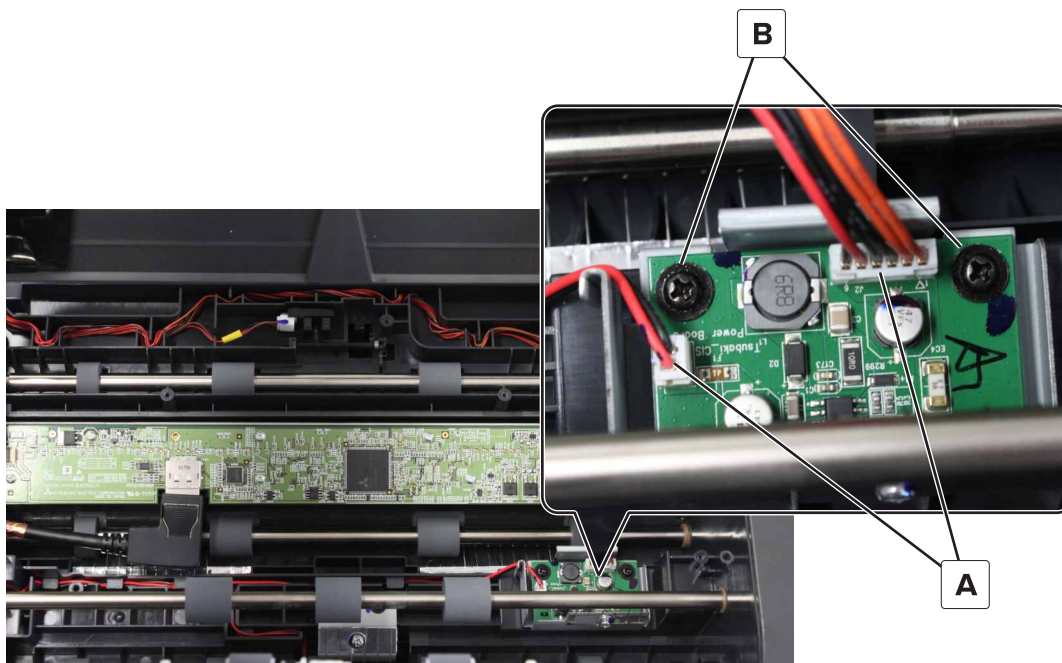
- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 2 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 3 Remove the ADF registration guide. See [“ADF registration guide removal” on page 753](#).
- 4 Disconnect the two connectors (A), and then remove the cable.



ADF CIS power supply board removal

- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Remove the ADF registration guide. See [“ADF registration guide removal” on page 753](#).

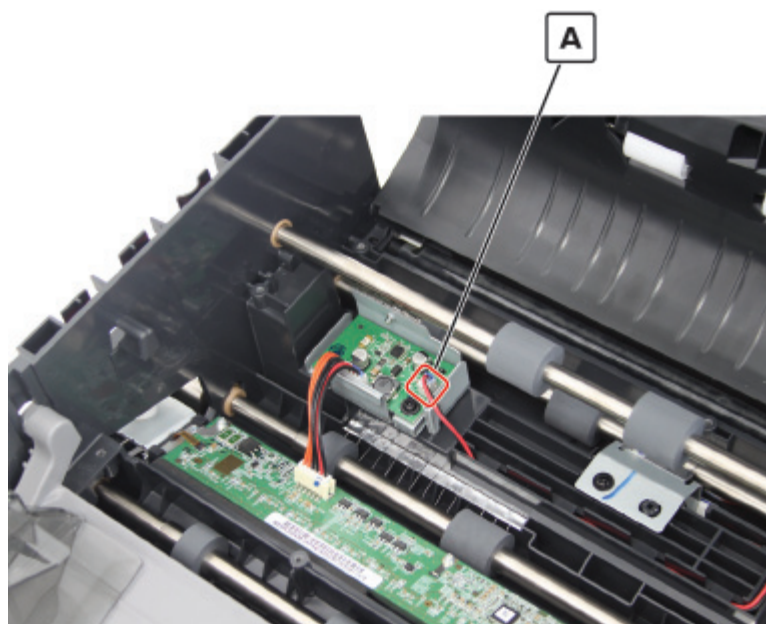
- 3 Disconnect the two cables (A), and then remove the two screws (B).



- 4 Remove the ADF CIS power supply board.

ADF CIS power supply board cable removal

- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Remove the ADF registration guide. See [“ADF registration guide removal” on page 753](#).
- 3 Disconnect the cable (A), and then release it from its guides.



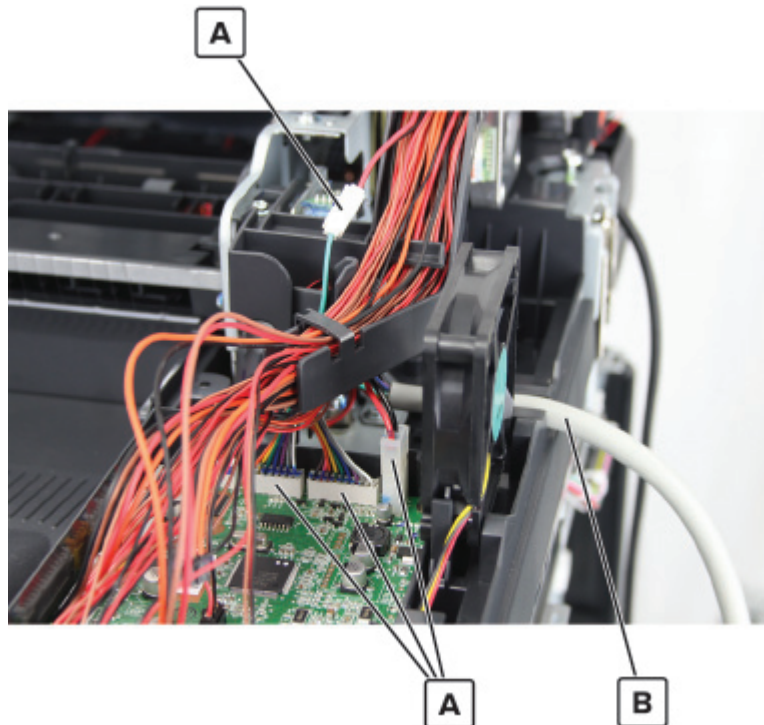
- 4 Disconnect the cable (B), and then release it from its guides.



- 5 Remove the cable.

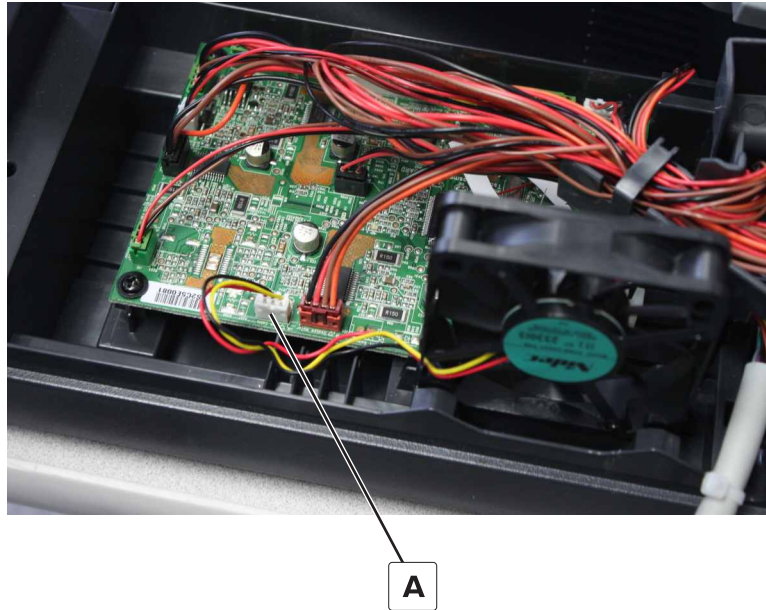
ADF CIS cable removal

- 1 Disconnect the ADF CIS cable from the printer. See [“Upper rear cover removal” on page 604.](#)
- 2 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 3 Disconnect the four cables (A), and then release them from their guides.
- 4 Remove the cable harness (B).



ADF fan removal

- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Disconnect the cable (A), and then remove the fan.



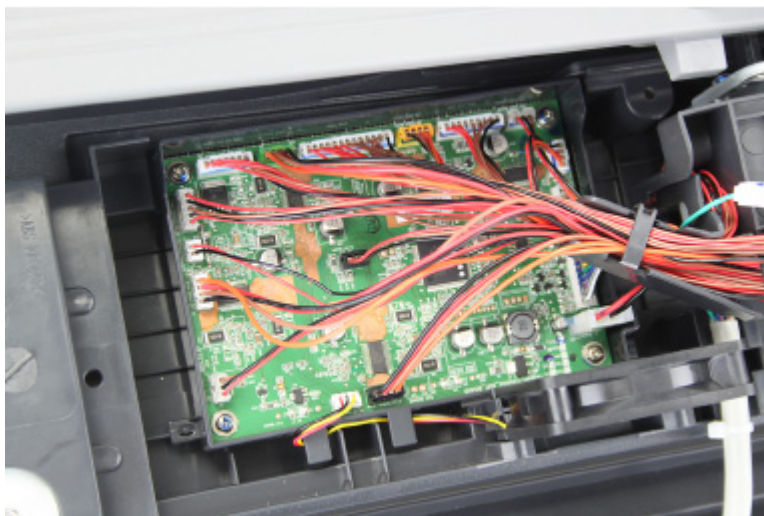
ADF controller board removal

- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Disconnect all the cables on the ADF controller board.
- 3 Remove the four screws securing the ADF controller board, and then remove the board.

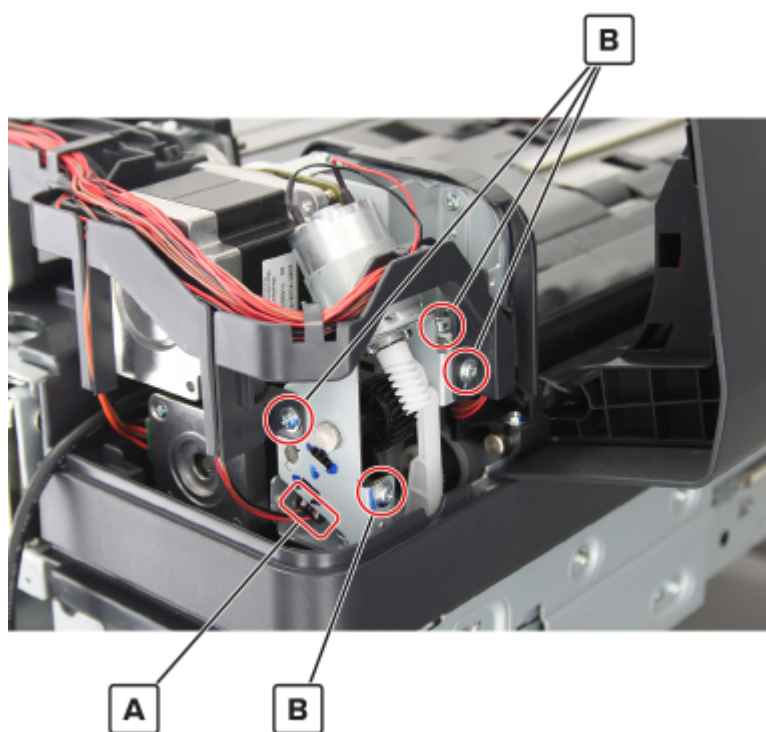
ADF tray/transport removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).

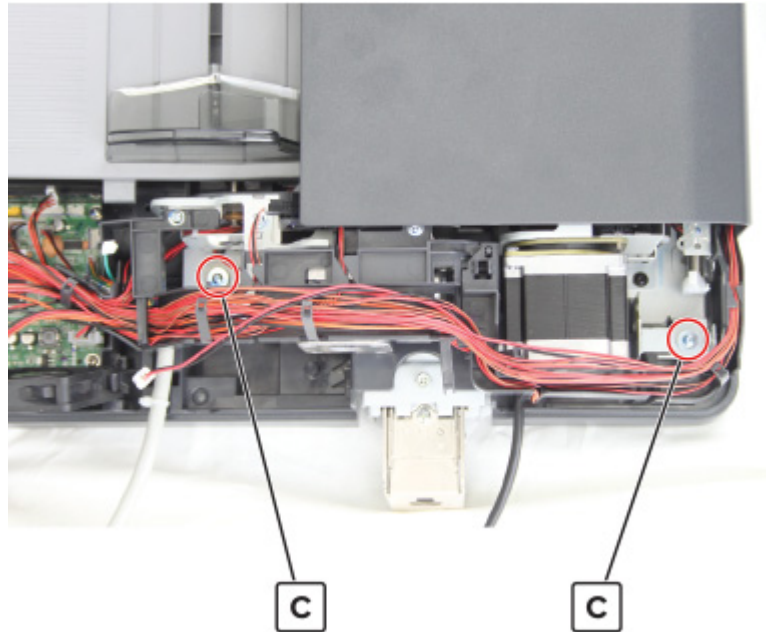
- 4** Disconnect all the cables from the ADF controller board.



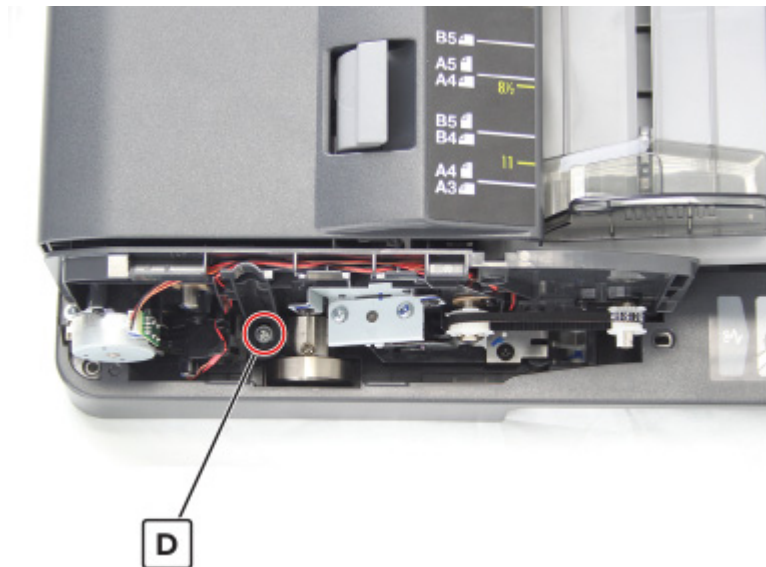
- 5** Disconnect the cable (A), remove the four screws (B), and then remove the motor bracket.



- 6 Remove the two screws (C).



- 7 From the front, remove the screw (D).

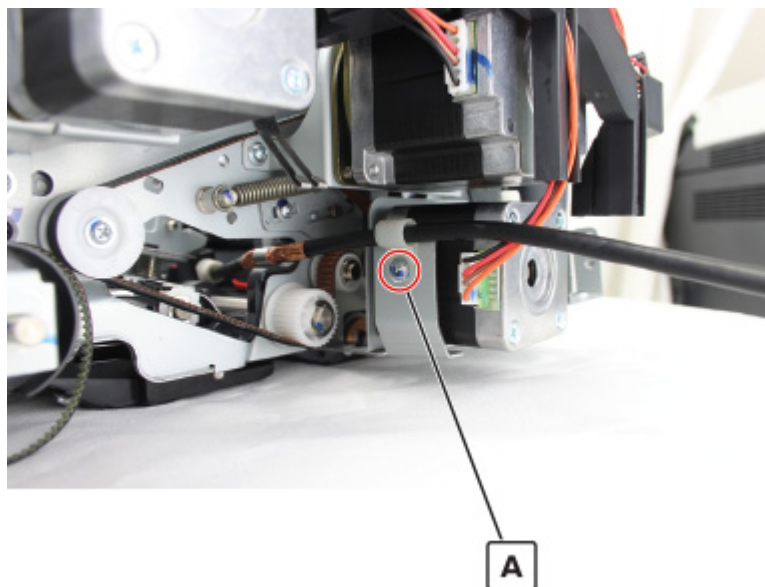


- 8 Remove the ADF tray/transport.

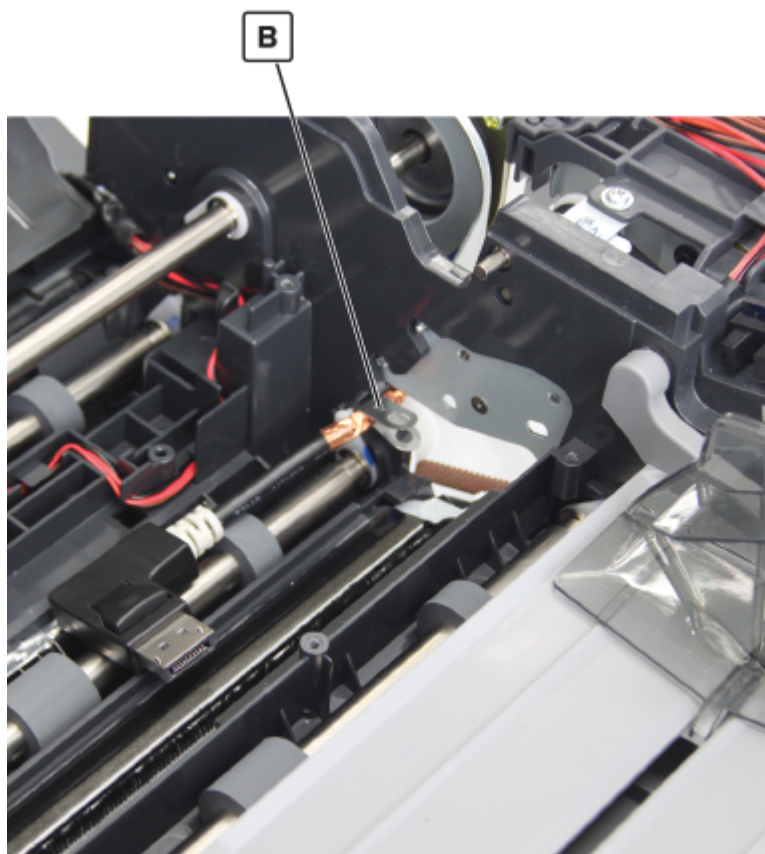
ADF CIS data cable removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF registration guide. See [“ADF registration guide removal” on page 753](#).

- 5 Remove the ADF CIS assembly. See [“ADF CIS assembly removal” on page 767](#).
- 6 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 7 Remove the screw (A), and then release the cable.

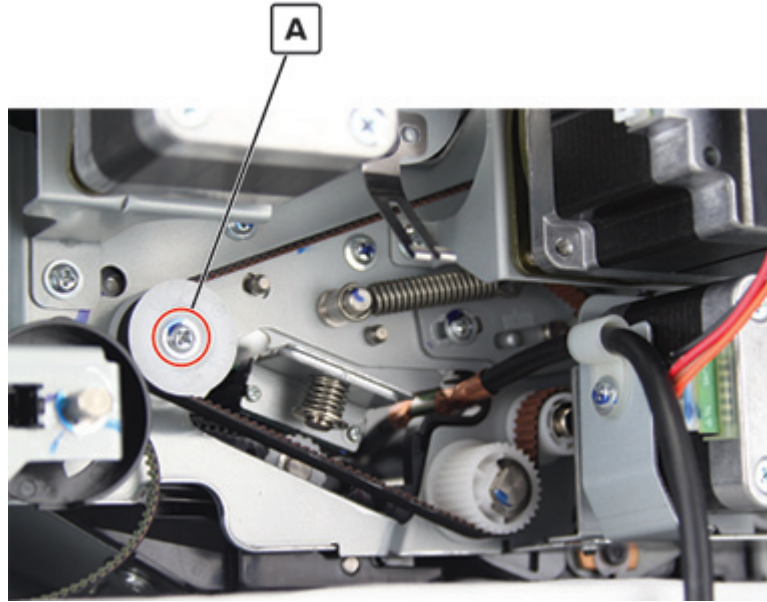


- 8 Release the cable from the clip (B), and then remove it.



ADF scan roller 2 gear removal

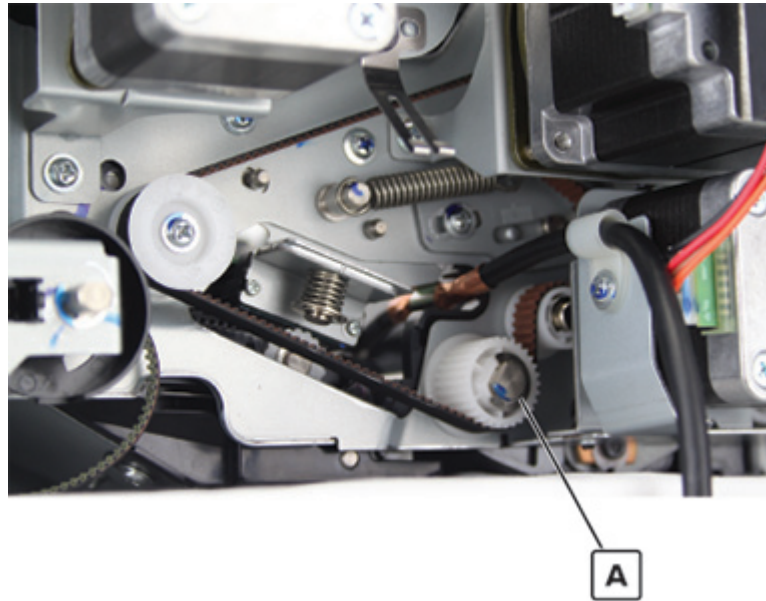
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5 Remove the screw (A), and then remove the gear.



ADF scan motor gear removal

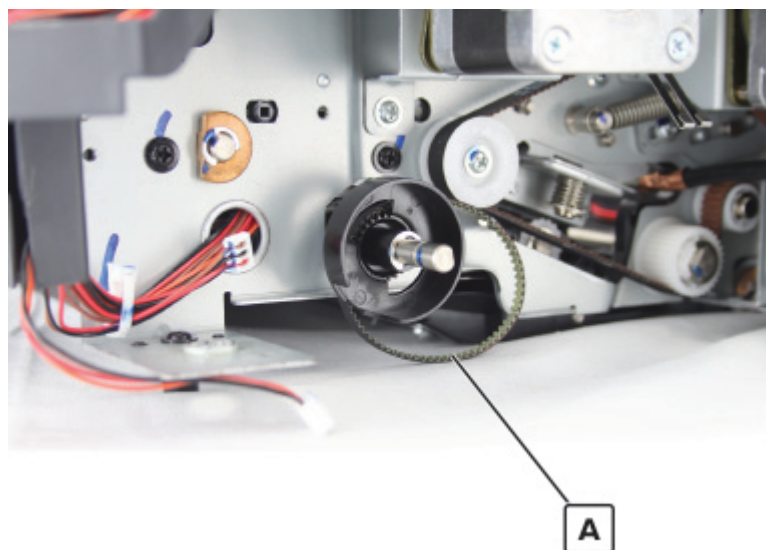
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).

- 5 Remove the E-clip (A), and then remove the gear.



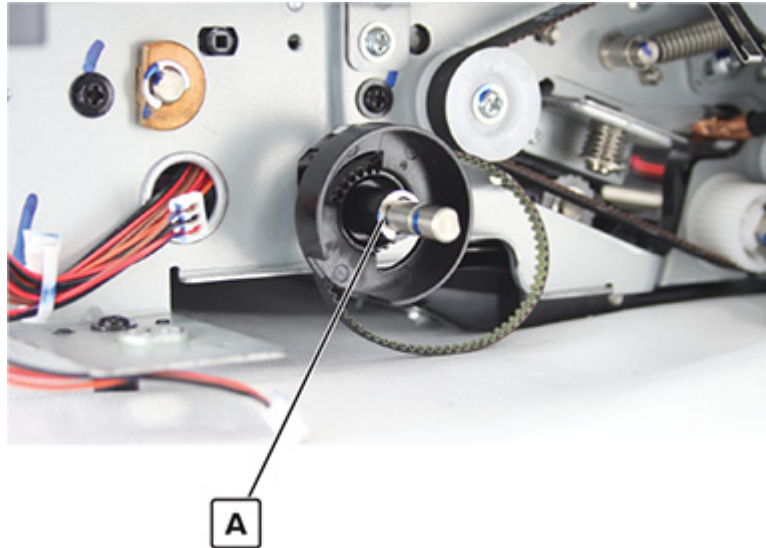
ADF CIS clean belt removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773.](#)
- 5 Remove the belt (A).



ADF CIS clean sensor actuator removal

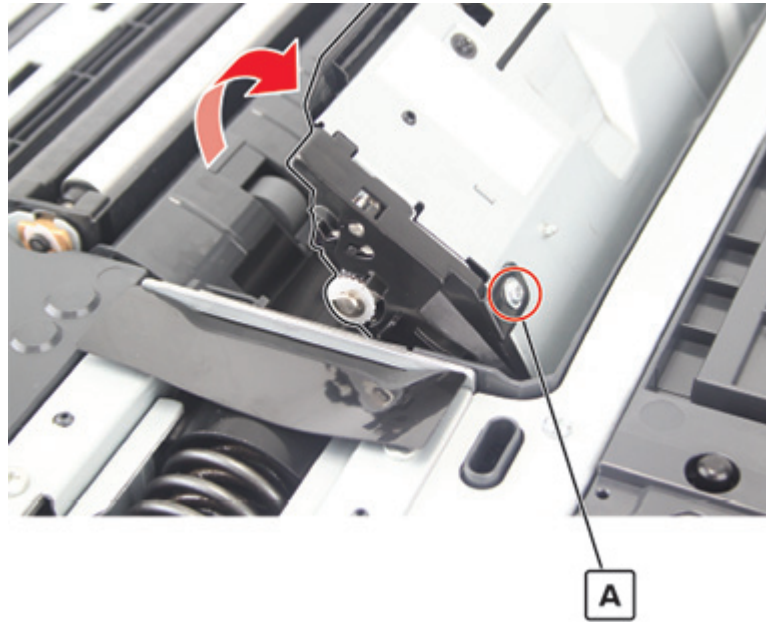
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773.](#)
- 5 Remove the E-clip (A), and then remove the actuator.



ADF CIS jam access latch 2 removal

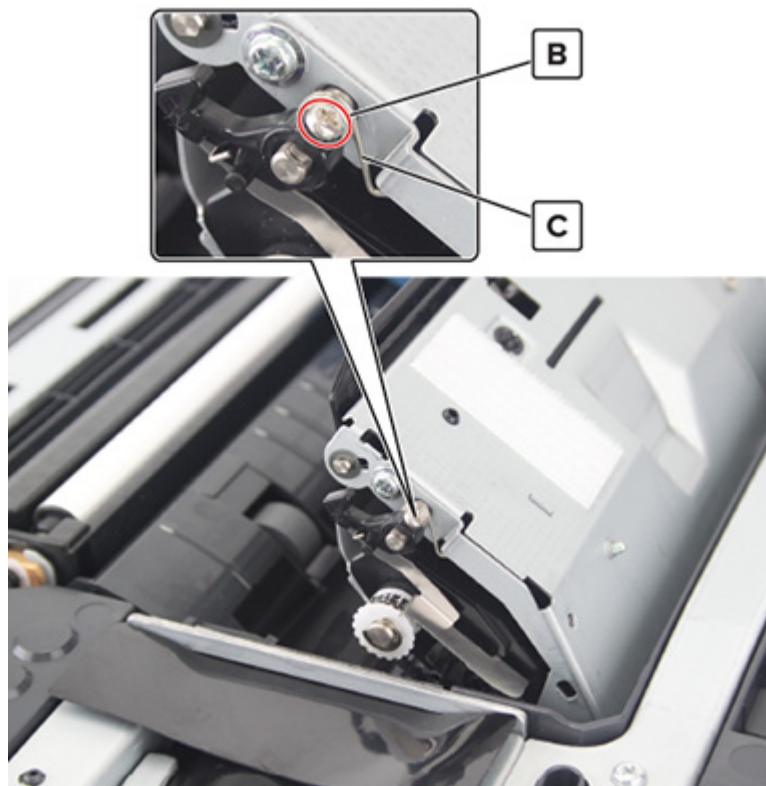
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 2 Remove the ADF glass pad.
- 3 Release the jam access handle, and then open the bottom ADF door.

- 4 Remove the screw (A) from the rear, and then remove the cover.



- 5 Remove the screw (B), and then remove the spring and latch.

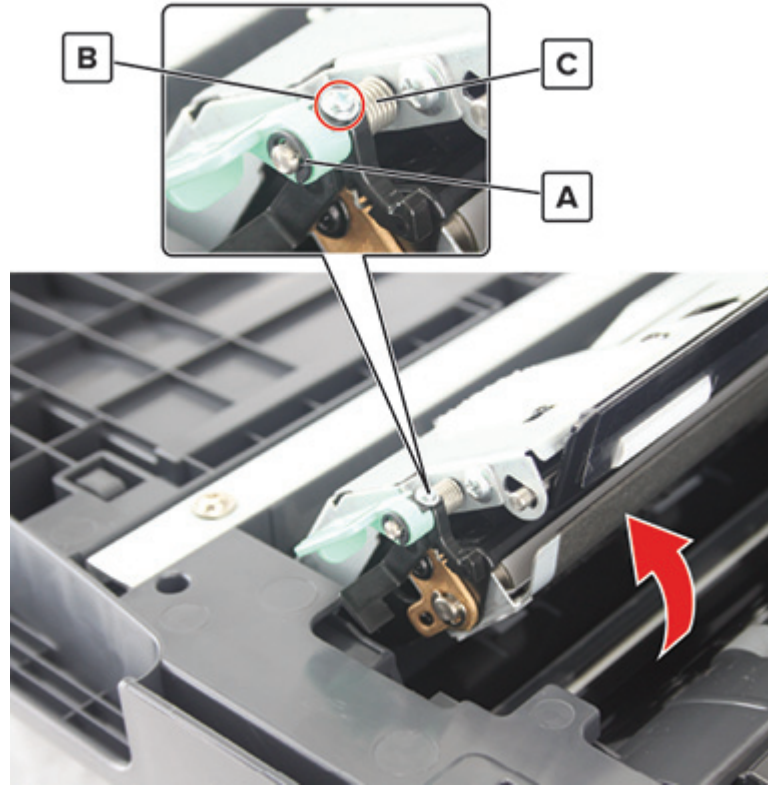
Installation note: Make sure that the spring (C) is properly installed.



ADF CIS jam access latch 1 removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF glass pad.
- 3 Release the jam access handle, and then open the bottom ADF door.
- 4 Remove the E-clip (A) from the front, and then remove the handle.
- 5 Remove the screw (B), and then remove the spring and latch.

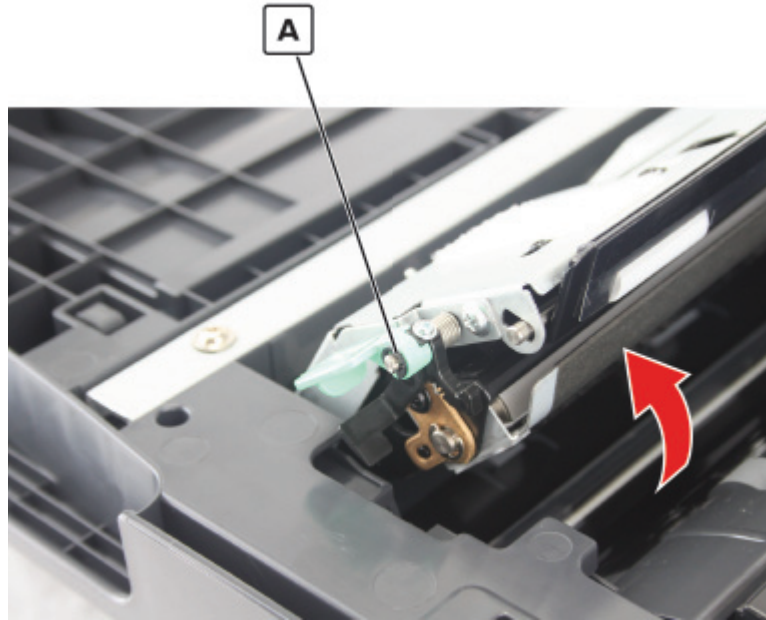
Installation note: Make sure that the spring (C) is properly installed.



ADF CIS jam access handle removal

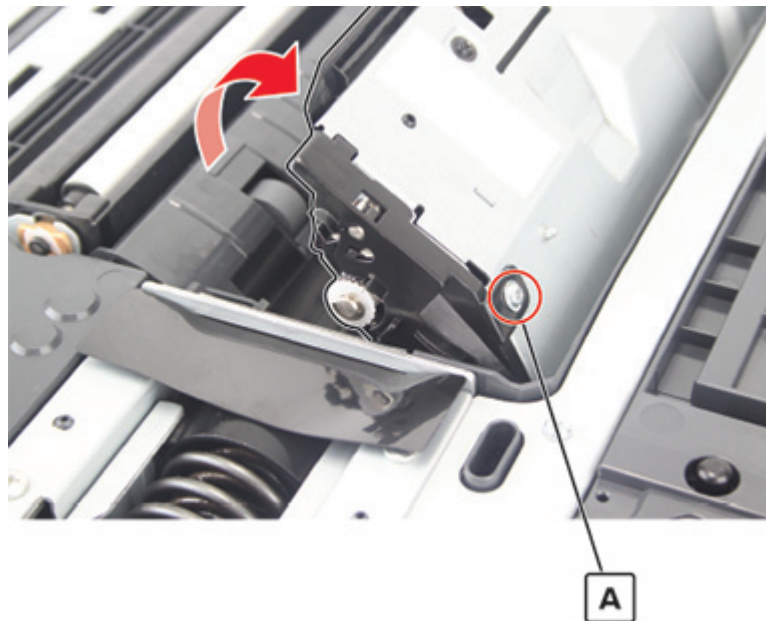
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF glass pad.
- 3 Release the jam access handle, and then open the bottom ADF door.

- 4** Remove the E-clip (A), and then remove the handle.

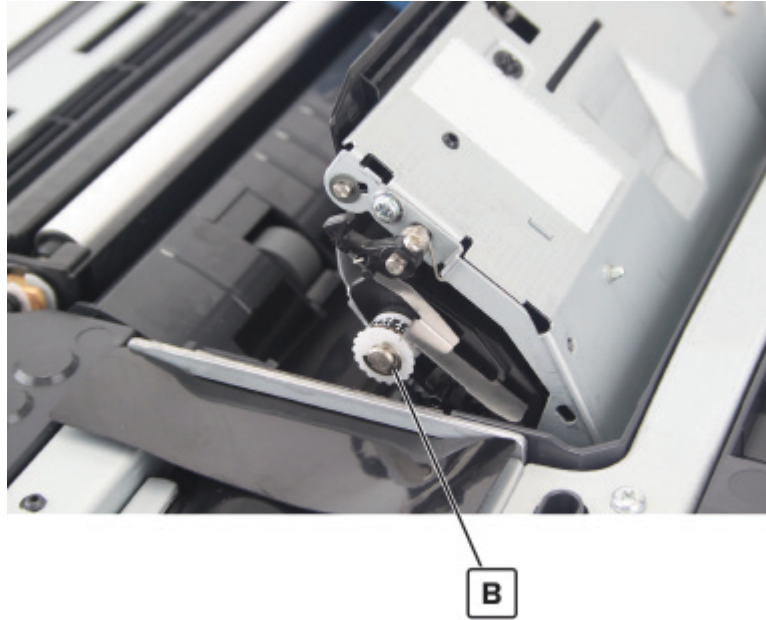


ADF CIS clean roller secondary gear removal

- 1** Release the jam access handle, and then open the bottom ADF door.
- 2** Remove the screw (A) from the rear, and then remove the cover.

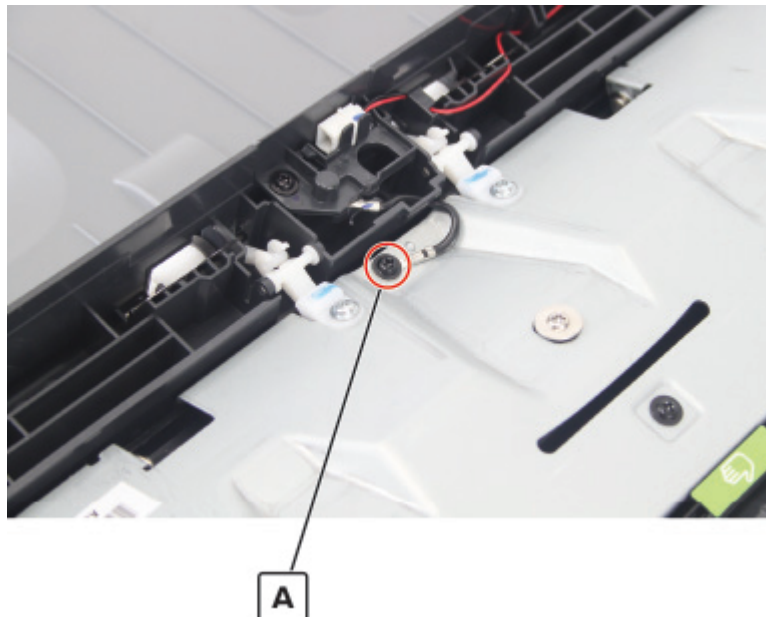


- 3** Remove the E-clip (B), and then remove the gear.



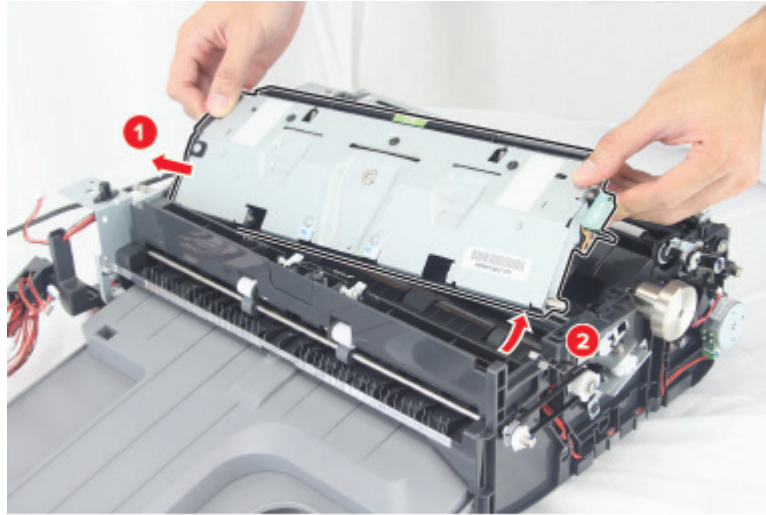
ADF CIS jam access cover removal

- 1** Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2** Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4** Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5** Release the jam access handle, and then open the bottom ADF door.
- 6** Remove the ground screw (A).

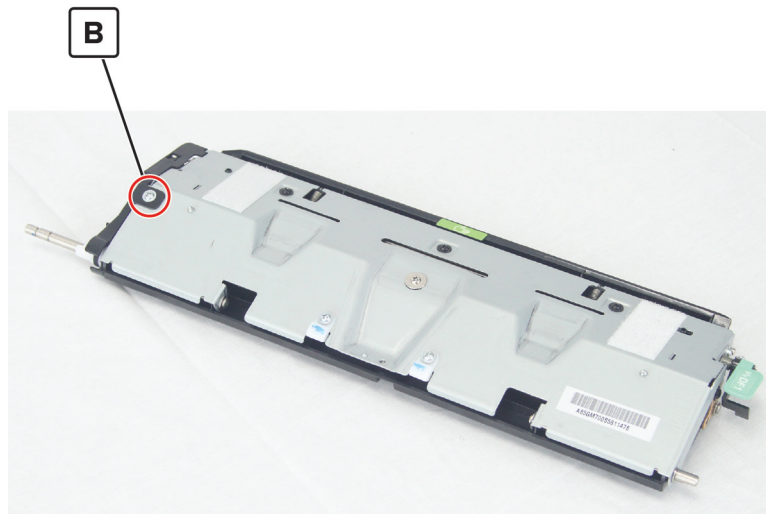


Parts removal

- 7** Release the front end, and then remove the door assembly.

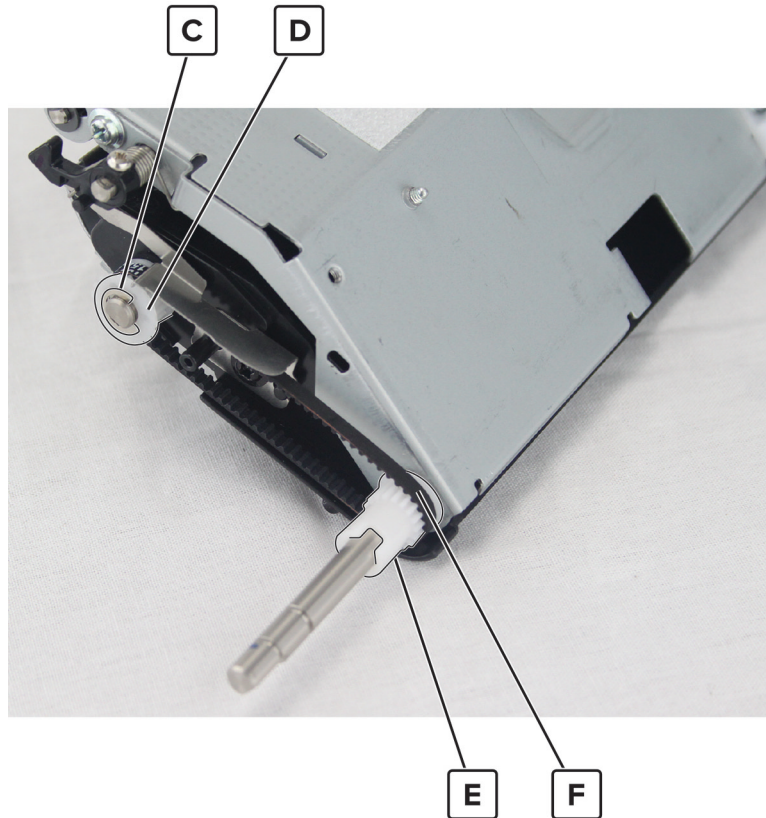


- 8** Remove the screw (B), and then remove the cover.



- 9** Remove the E-clip (C), and then remove the ADF CIS clean roller secondary gear (D).

- 10** Remove the ADF CIS clean roller primary gear (E) and ADF CIS clean roller belt (F).



The ADF CIS jam access cover remains.

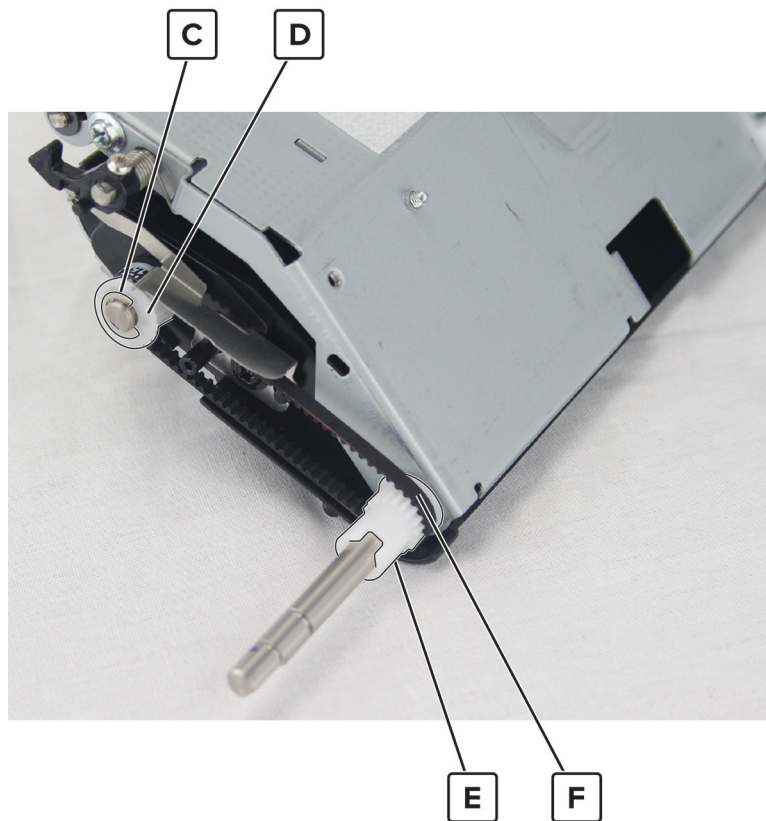
ADF CIS clean roller belt removal

- 1** Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2** Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4** Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5** Remove the ADF jam access door. See [“ADF CIS jam access cover removal” on page 783](#).

- 6** Remove the screw (A), and then remove the cover.



- 7** Remove the E-clip (B), and then remove the gear.

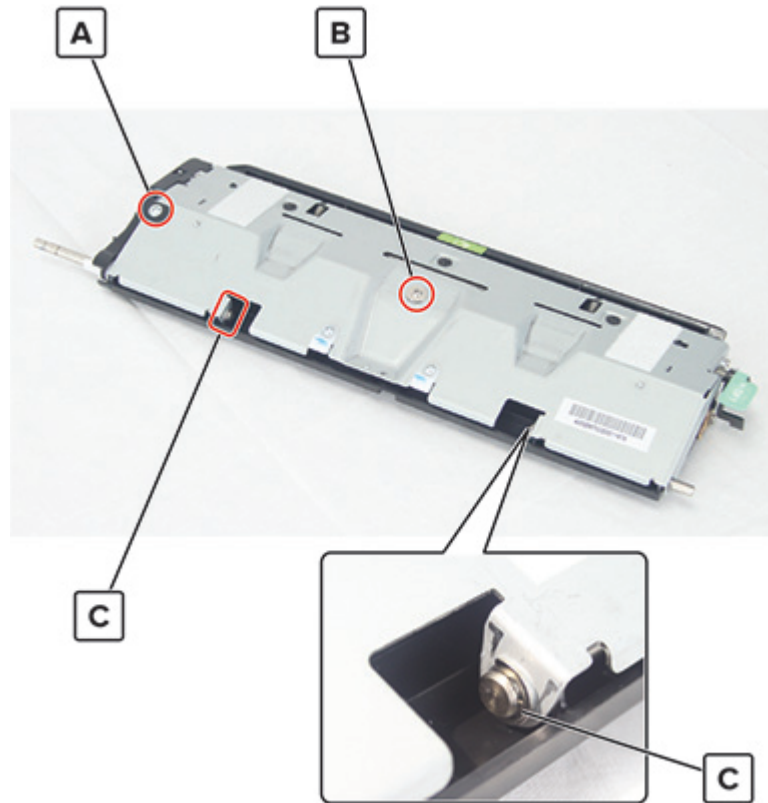


- 8** Remove the belt.

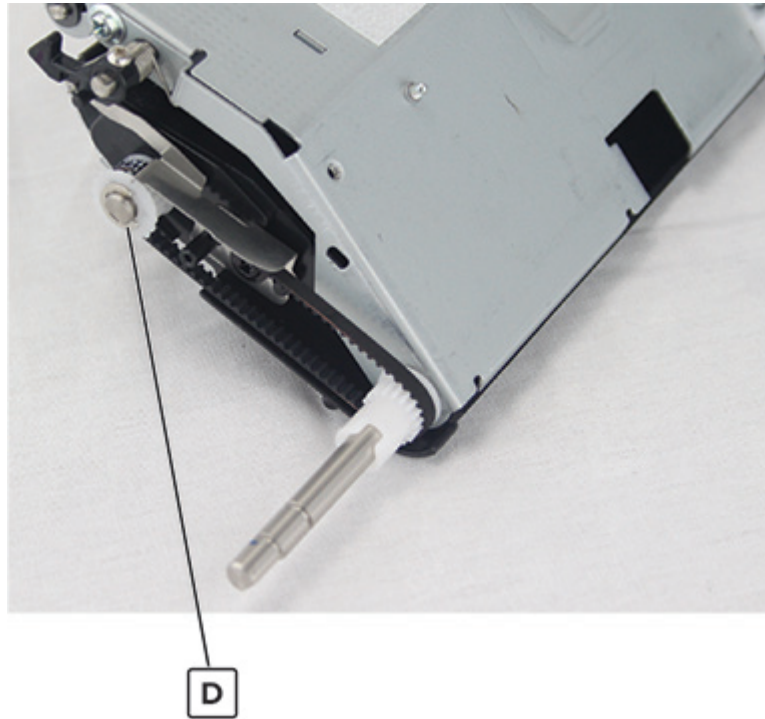
ADF CIS idler roller removal

- 1** Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2** Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).

- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5 Remove the ADF jam access door assembly. See [“ADF CIS jam access cover removal” on page 783](#).
- 6 Remove the screw (A), and then remove the cover.
- 7 Remove the screw (B) and the two E-clips (C).

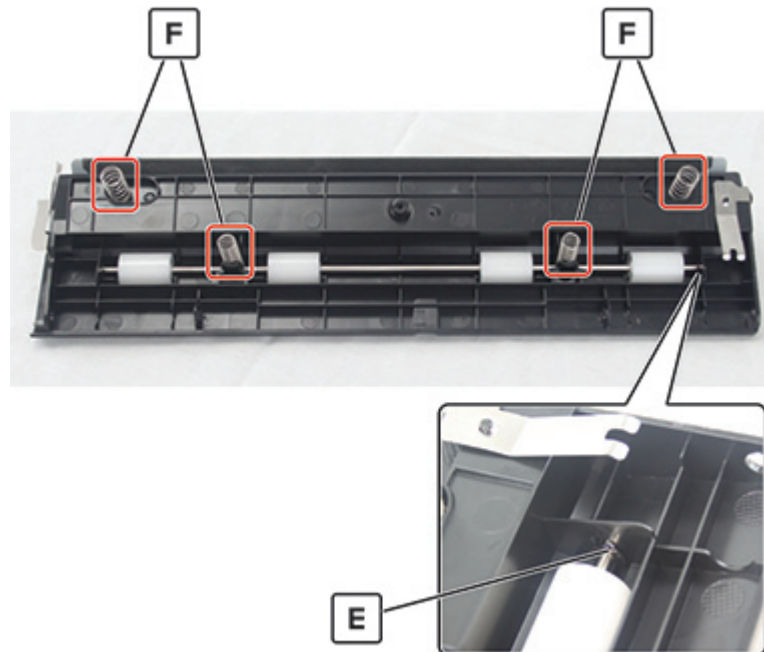


- 8 Remove the E-clip (D), and then remove the gear and belt.



- 9 Remove the door plate, and then remove the E-clip (E).

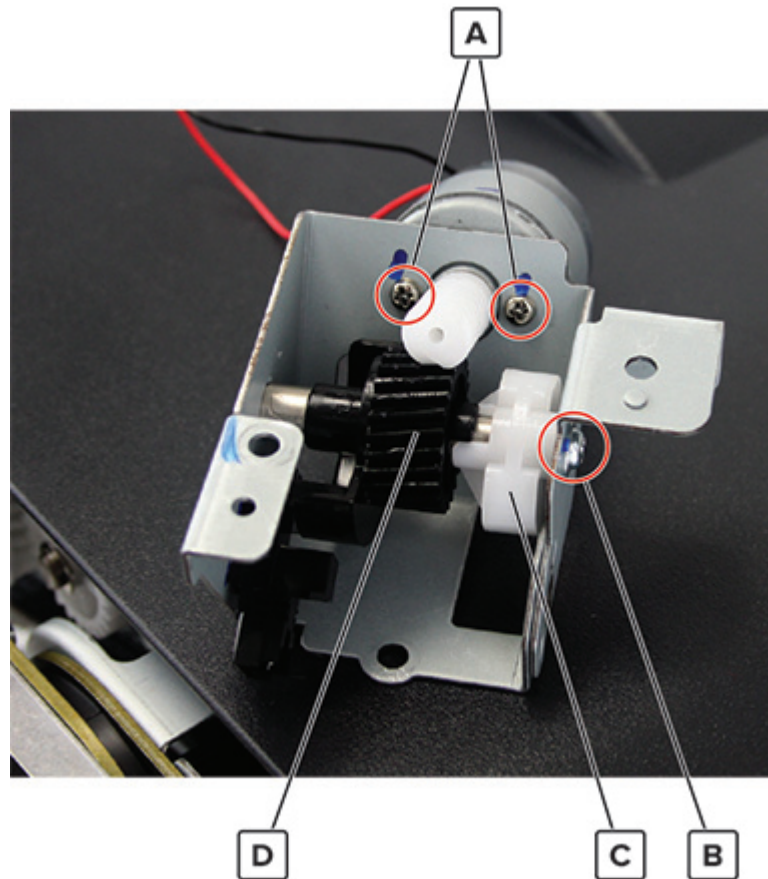
Warning—Potential Damage: Do not lose the springs (F).



- 10 Remove the roller.

ADF CIS clean cam and gear removal

- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Remove the motor bracket. See [“ADF tray/transport removal” on page 773](#).
- 3 Remove the three screws (A, B).
- 4 Remove the ADF CIS clean gear (C) and cam (D).



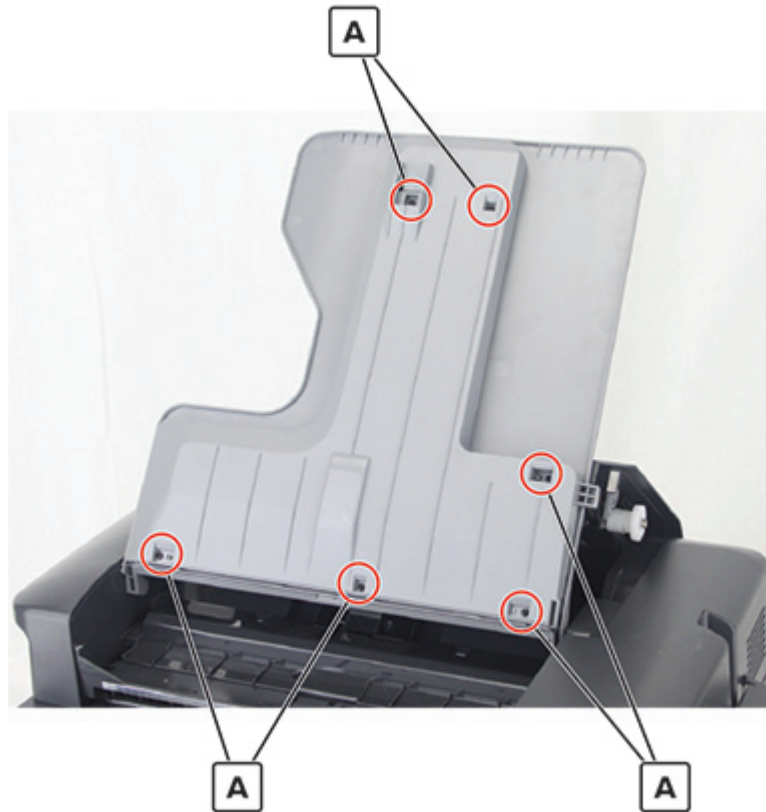
ADF bin paper stopper removal

- 1 Open the ADF top door, and then lift the tray.
- 2 Pry the stopper to release, and then remove it.



ADF tray bottom cover removal

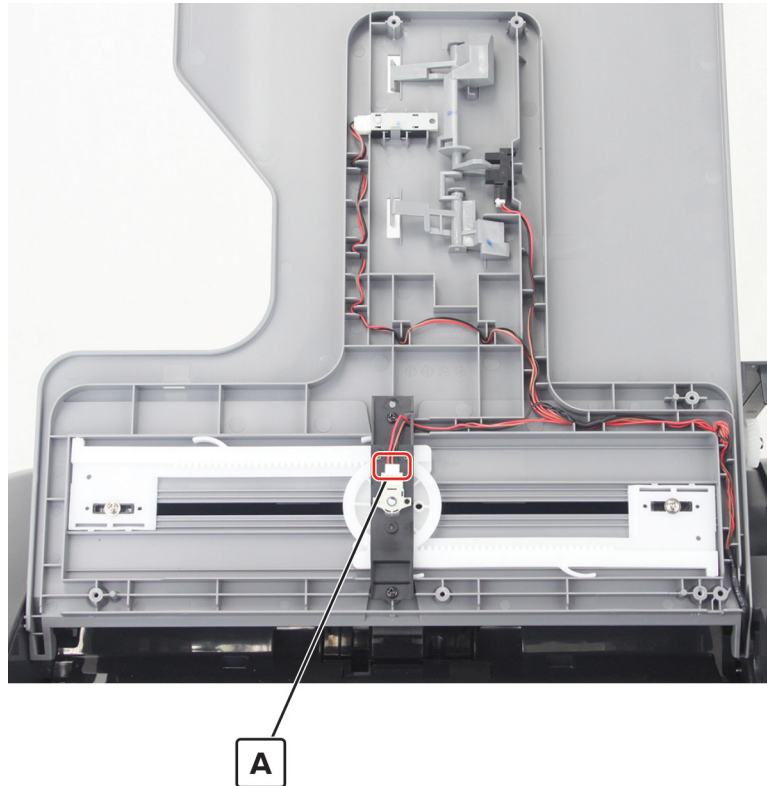
- 1 Remove the ADF bin paper stopper. See [“ADF bin paper stopper removal” on page 790](#).
- 2 Remove the six screws (A), and then remove the cover.



Sensor (ADF paper width) removal

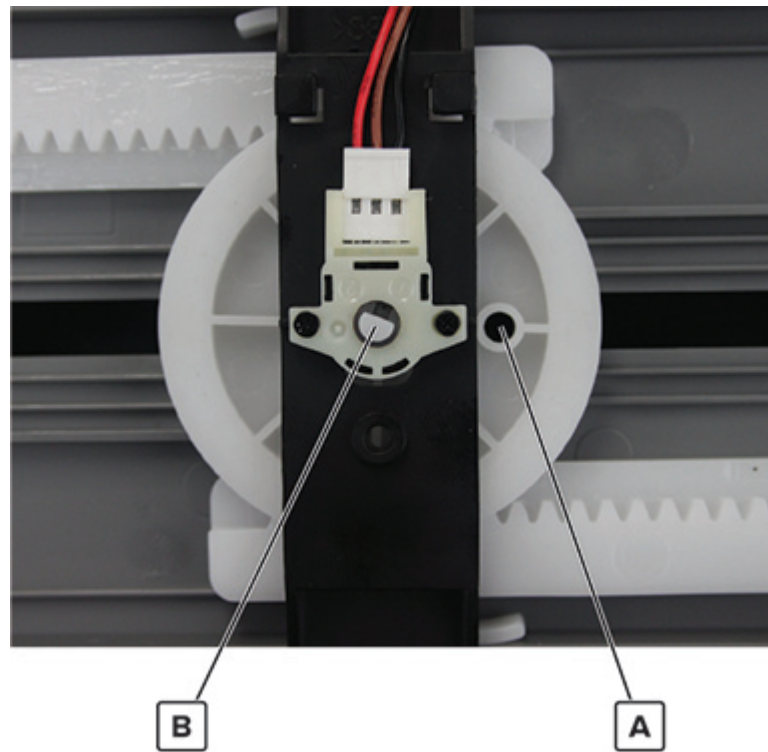
- 1 Remove the ADF bin paper stopper. See [“ADF bin paper stopper removal” on page 790](#).
- 2 Remove the ADF tray bottom cover. See [“ADF tray bottom cover removal” on page 791](#).

- 3** Disconnect the cable (A), and then remove the sensor.



Installation note: Move the ADF paper guide racks to their farthest positions. Make sure that the gear hole (A) is positioned as shown.

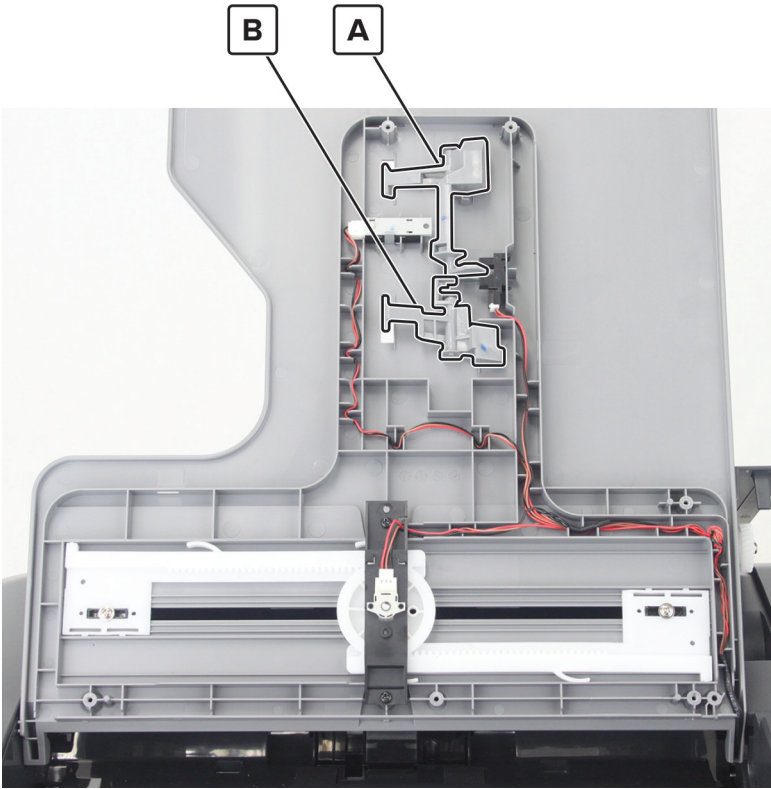
Installation note: Align the D-shaped hub (B) with its slot on the sensor.



ADF paper length 2 sensor actuator removal

- 1 Remove the ADF bin paper stopper. See [“ADF bin paper stopper removal” on page 790.](#)
- 2 Remove the ADF tray bottom cover. See [“ADF tray bottom cover removal” on page 791.](#)

3 Remove the sensor actuator.

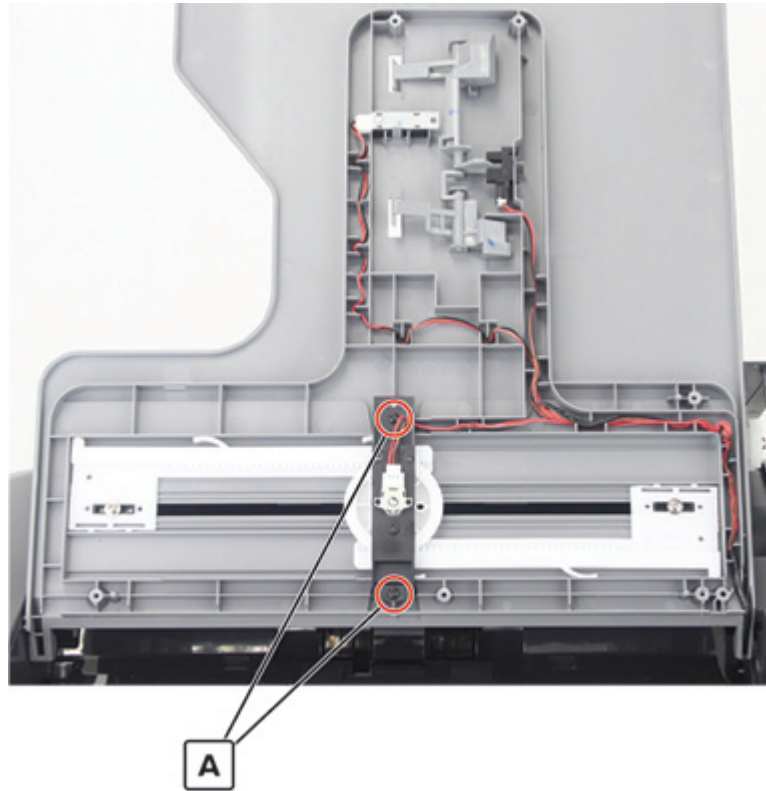


| # | Part |
|---|--|
| A | ADF paper length 2 sensor actuator (Legal) |
| B | ADF paper length 2 sensor actuator (A4) |

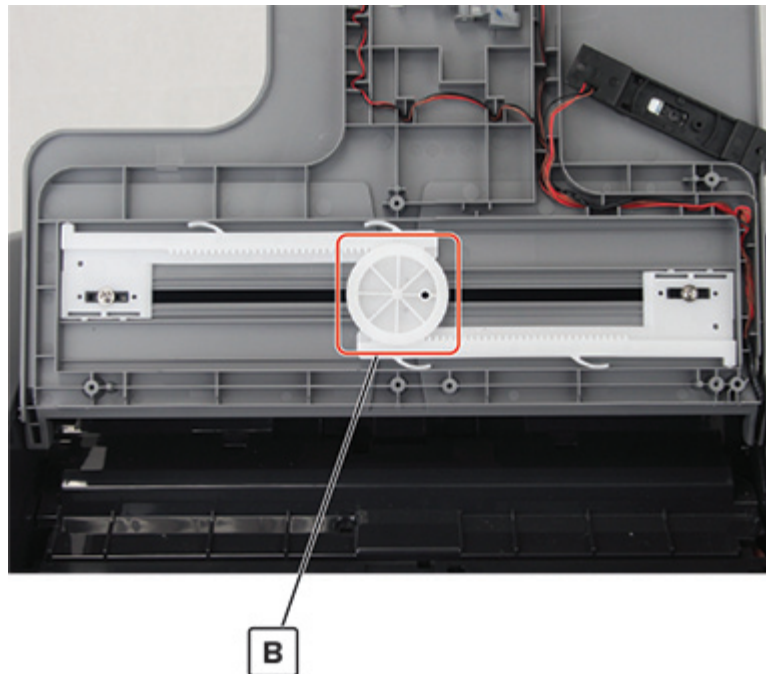
ADF paper guide gear removal

- 1** Remove the ADF bin paper stopper. See [“ADF bin paper stopper removal” on page 790.](#)
- 2** Remove the ADF tray bottom cover. See [“ADF tray bottom cover removal” on page 791.](#)

- 3** Remove the two screws (A), and then pull the sensor bracket.

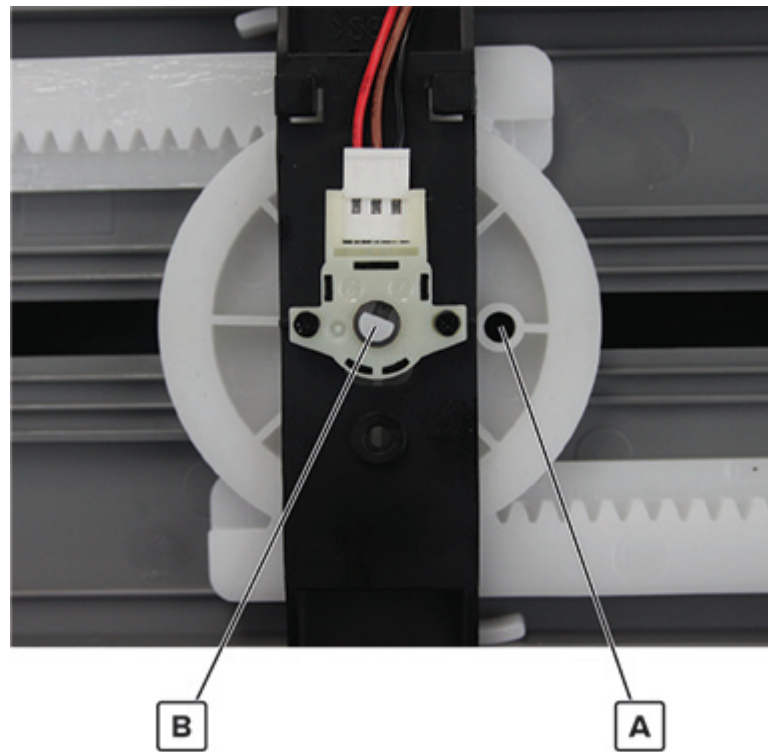


- 4** Remove the gear (B).



Installation note: Move the ADF paper guide racks to their farthest positions. Make sure that the gear hole (A) is positioned as shown.

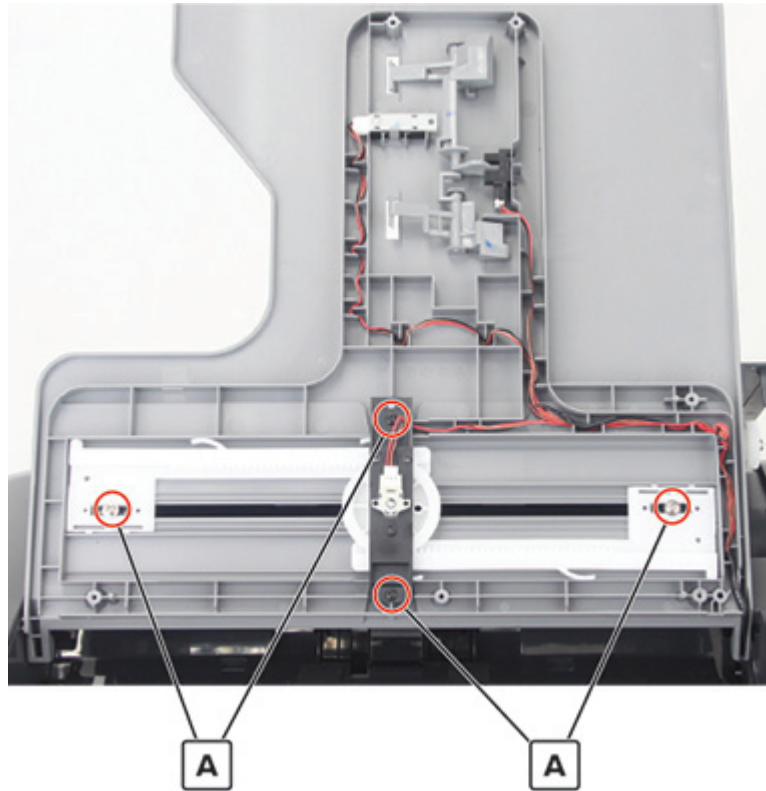
Installation note: Align the D-shaped hub (B) with its slot on the sensor.



ADF paper guide racks removal

- 1 Remove the ADF bin paper stopper. See [“ADF bin paper stopper removal” on page 790.](#)
- 2 Remove the ADF tray bottom cover. See [“ADF tray bottom cover removal” on page 791.](#)

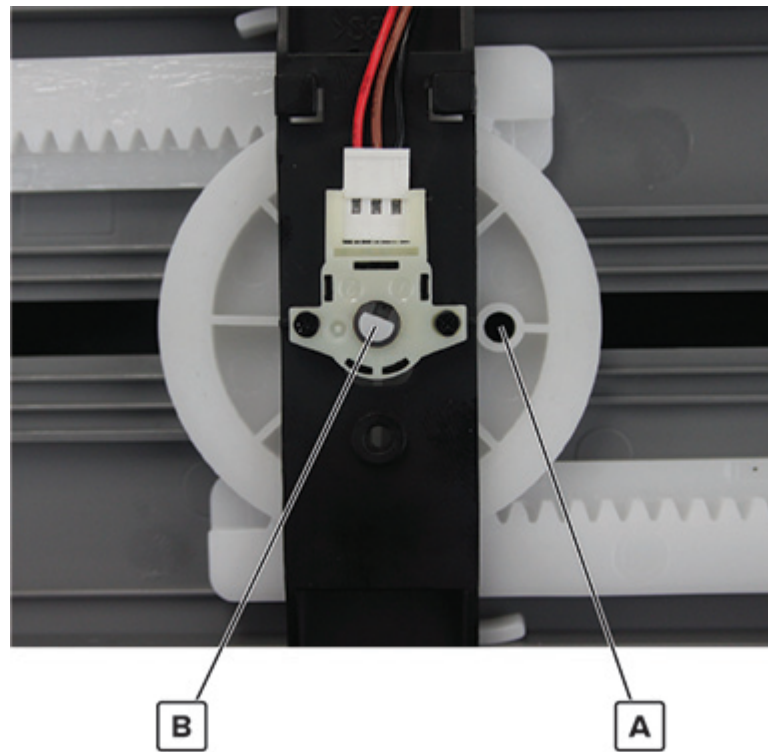
- 3** Remove the four screws (A), and then pull the sensor bracket.



- 4** Remove the gear, and then remove the racks.

Installation note: Move the ADF paper guide racks to their farthest positions. Make sure that the gear hole (A) is positioned as shown.

Installation note: Align the D-shaped hub (B) with its slot on the sensor.



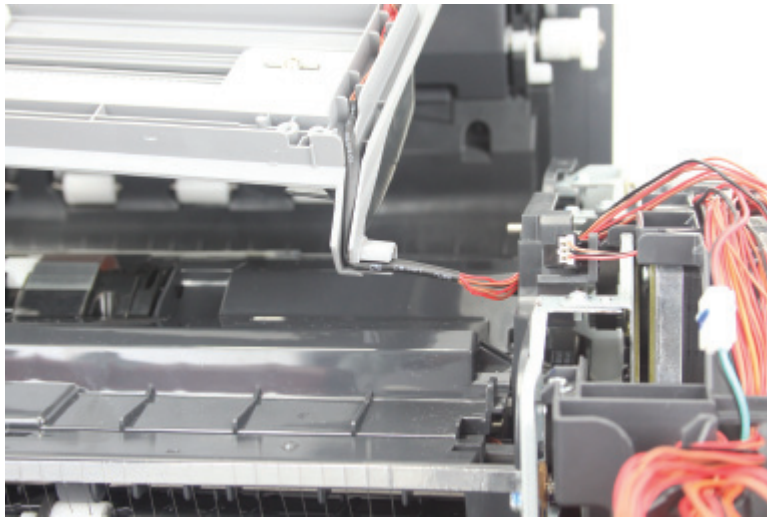
ADF tray cable removal

- 1 Remove the ADF bin paper stopper. See [“ADF bin paper stopper removal” on page 790.](#)
- 2 Remove the ADF tray bottom cover. See [“ADF tray bottom cover removal” on page 791.](#)
- 3 Release the front hinge, and then lift the tray.



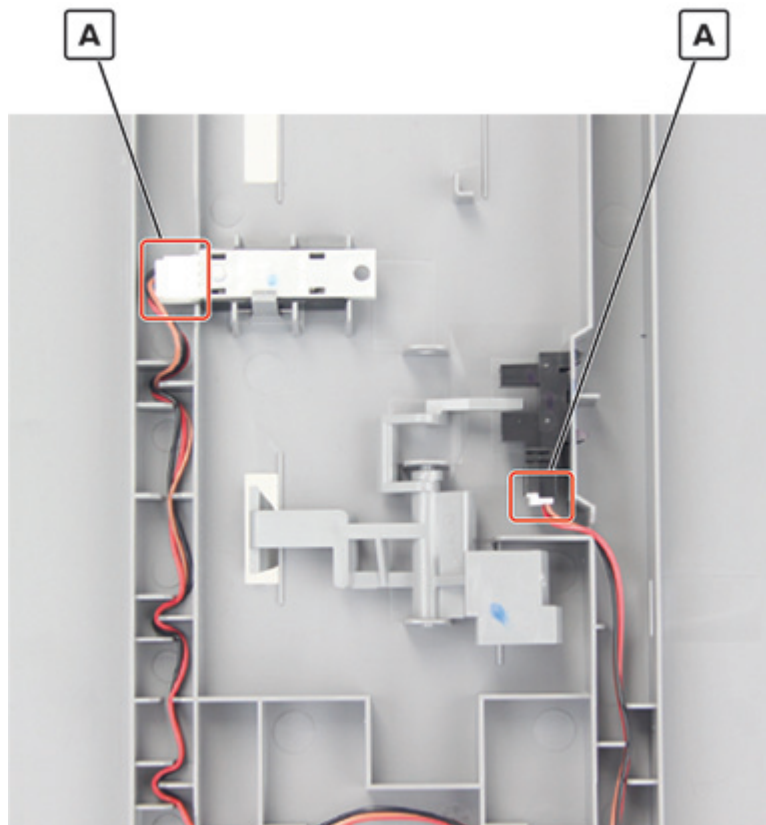
- 4 Release the cable from the hinge, and then disconnect it from the controller board.

Installation note: Make sure that the cable is properly routed.



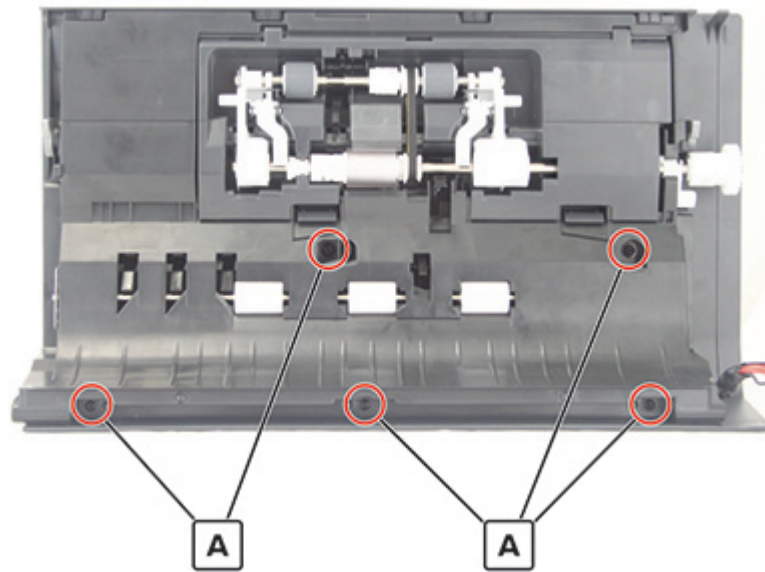
5 Disconnect the connectors (A), and then remove the cable.

Installation note: Make sure that the cable is properly routed.



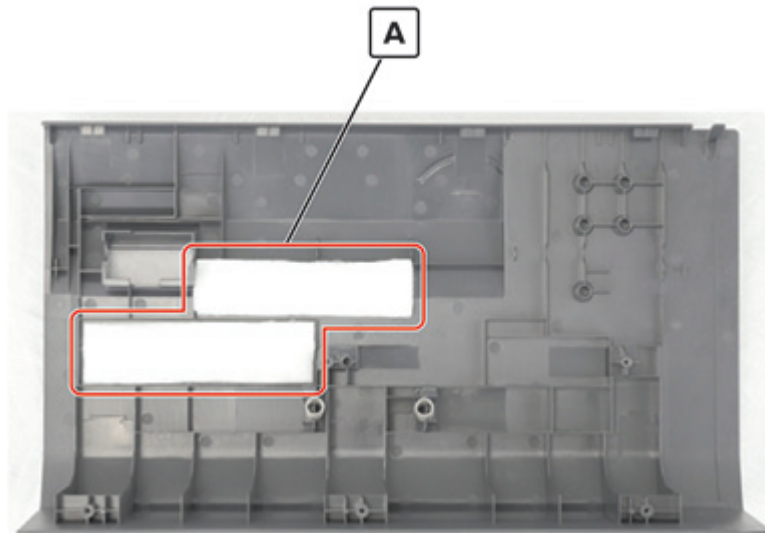
ADF top cover removal

- 1 Remove the ADF top cover assembly.
- 2 Remove the five screws (A).



- 3 Remove the cover.

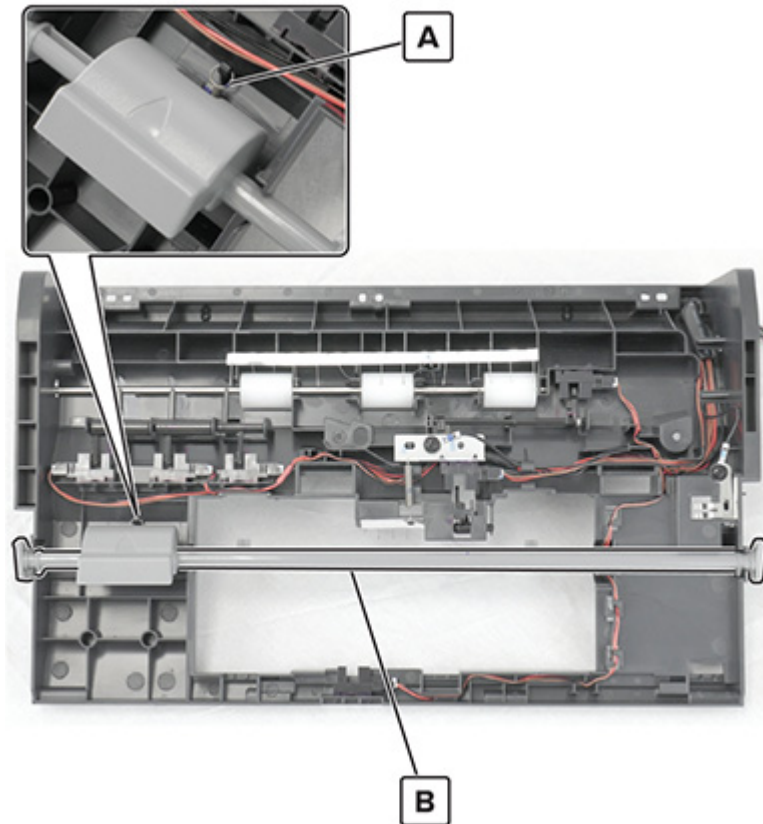
Installation note: Make sure that the cushions (A) are installed.



ADF door latch removal

- 1 Remove the ADF top cover assembly.
- 2 Remove the ADF top cover. See [“ADF top cover removal” on page 800](#).

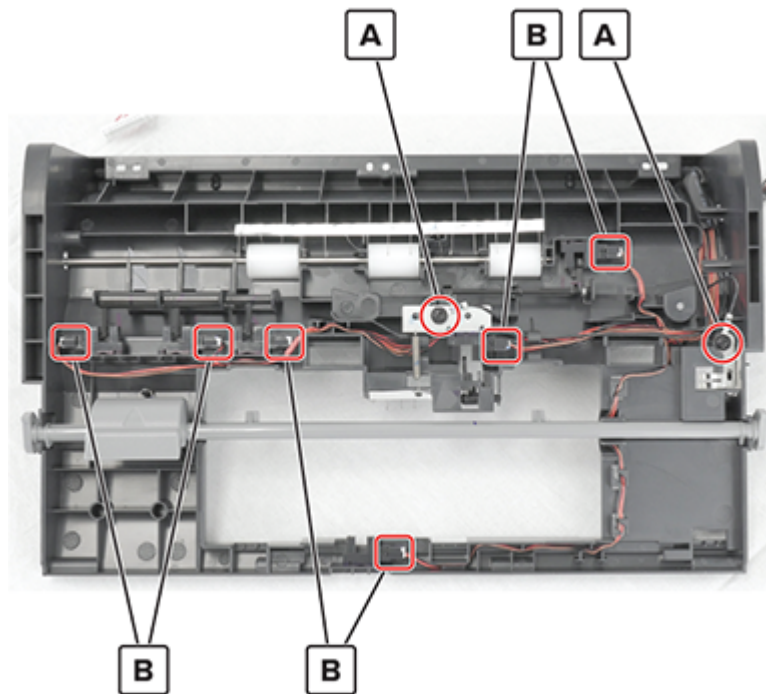
- 3 Unhook the spring (A), and then remove the door latch (B).



ADF top cover sensor cable removal

- 1 Remove the ADF top cover assembly.
- 2 Remove the ADF top cover. See [“ADF top cover removal” on page 800](#).
- 3 Remove the two ground screws (A), unplug the six connectors (B), and then remove the cables.

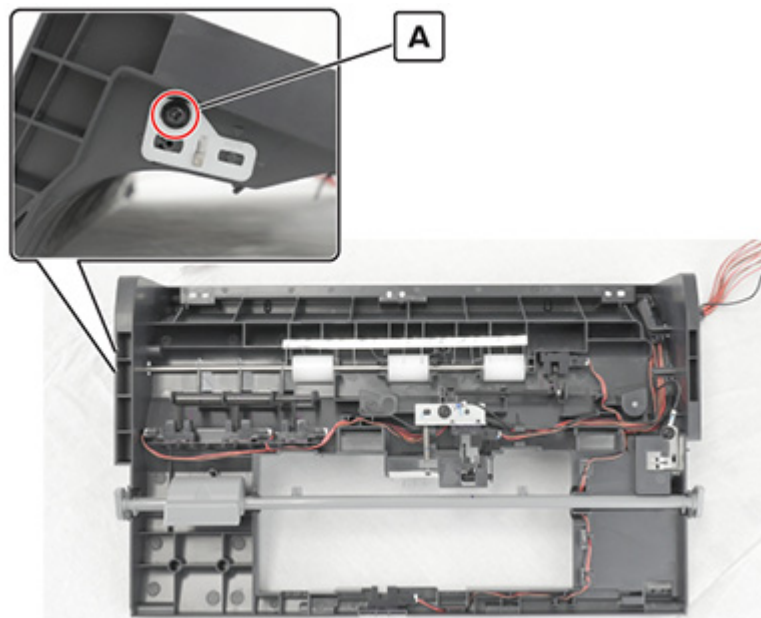
Installation note: Make sure that the cables are properly routed.



- 4 Separate the ADF ground cable from the ADF top cover sensor cable.

ADF registration idler rollers removal

- 1 Remove the ADF top cover assembly.
- 2 Remove the ADF cover. See [“ADF top cover removal” on page 800](#).
- 3 Remove the screw (A), and then remove the plate.

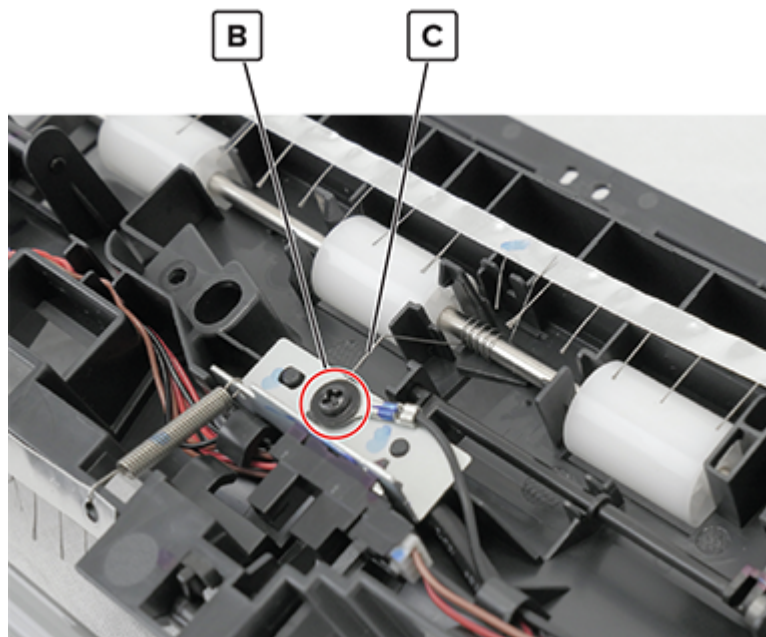


Installation note: Take note of the alignment of the arrow with the lines on the plate.



4 Remove the screw (B), and then remove the roller shaft.

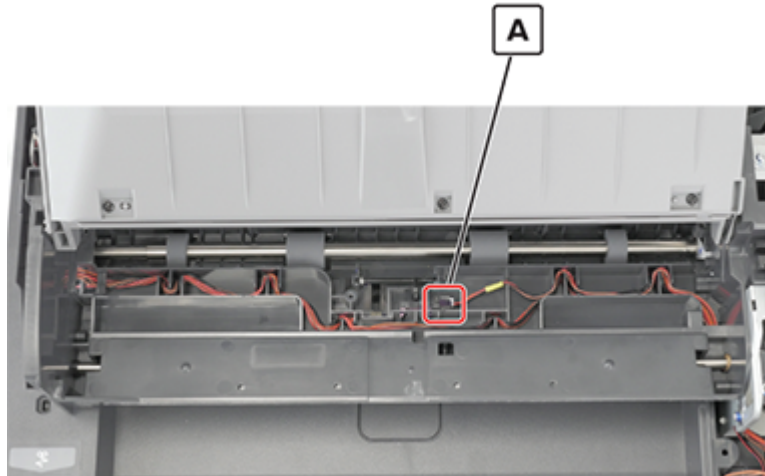
Installation note: Make sure that the ground spring (C) is properly installed.



5 Remove the rollers.

Sensor (ADF exit) removal

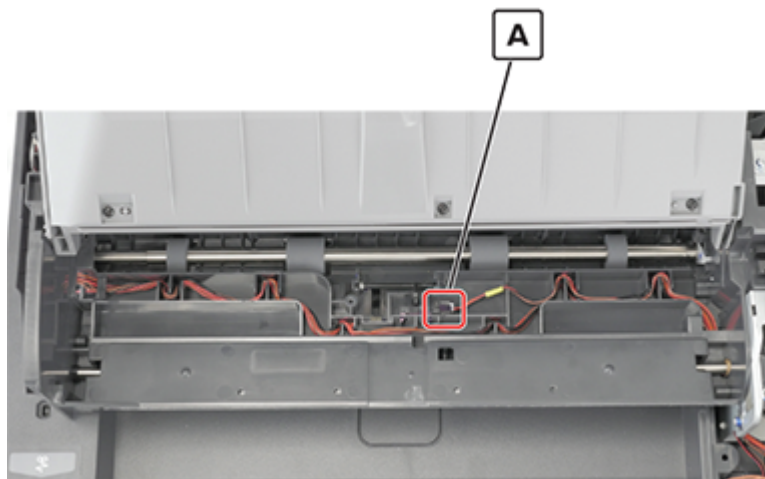
- 1 Remove the ADF registration guide. See [“ADF registration guide removal” on page 753](#).
- 2 Disconnect the cable (A), and then remove the sensor.



ADF exit sensor cable removal

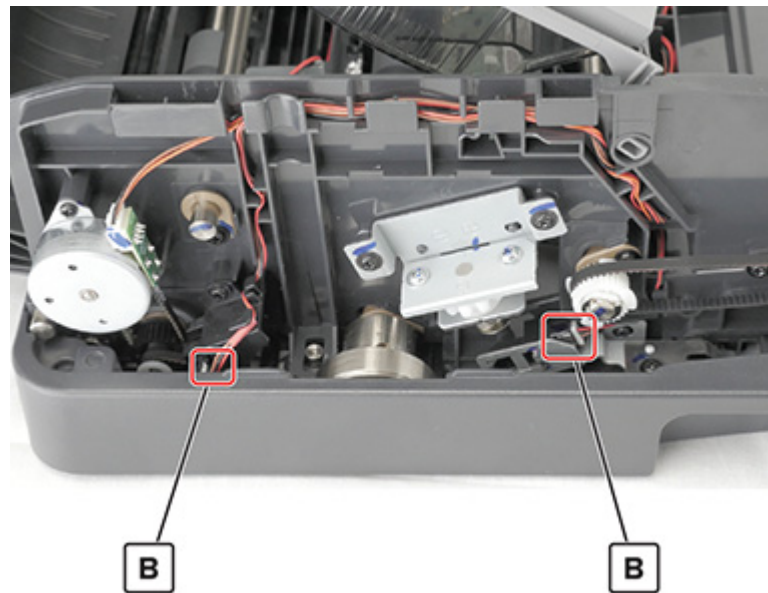
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF registration guide. See [“ADF registration guide removal” on page 753](#).
- 5 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 6 Disconnect the cable (A), and then release it from its cable guides.

Installation note: Make sure that the cable is properly routed.



- 7 Disconnect the two cables (B), and then release them from their guides.

Installation note: Make sure that the cables are properly routed.

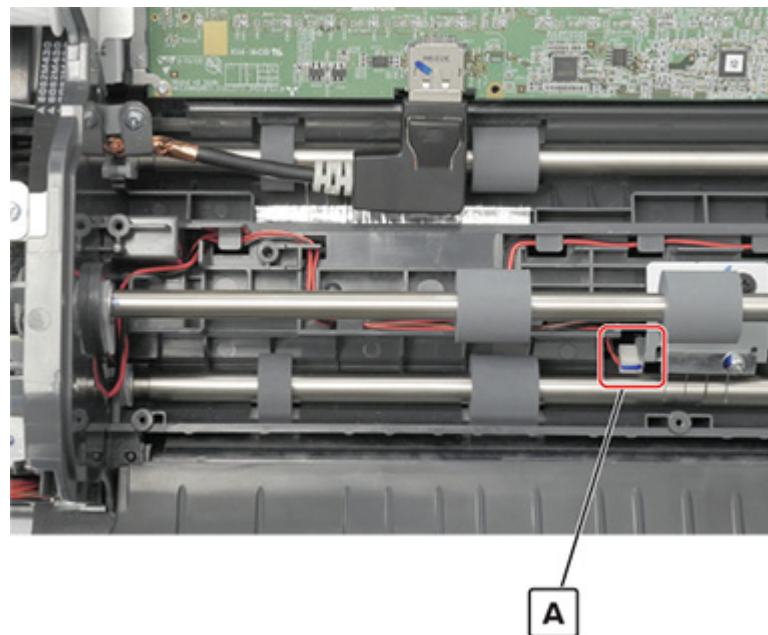


8 Disconnect the sensor cable J15 from the controller board, and then remove it.

ADF scan sensor cable removal

- 1** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2** Remove the ADF registration guide. See [“ADF registration guide removal” on page 753](#).
- 3** Disconnect the cable (A), and then release it from its guides.

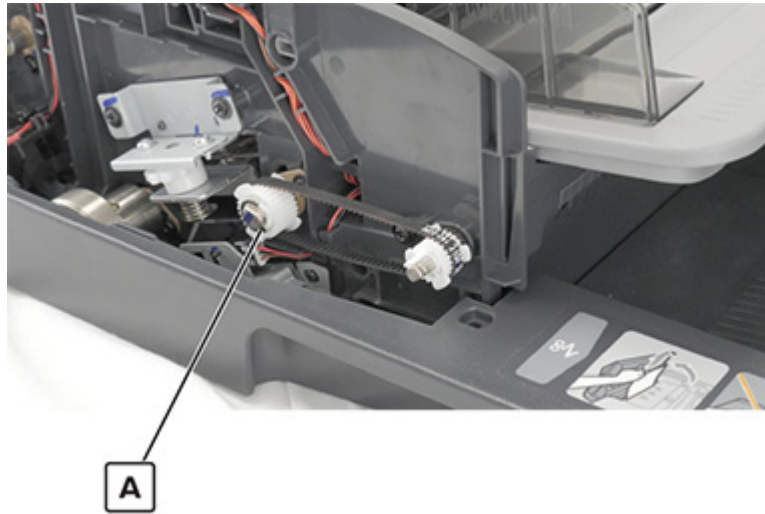
Installation note: Make sure that the cable is properly routed.



4 Disconnect the sensor cable J10 from the controller board, and then remove it.

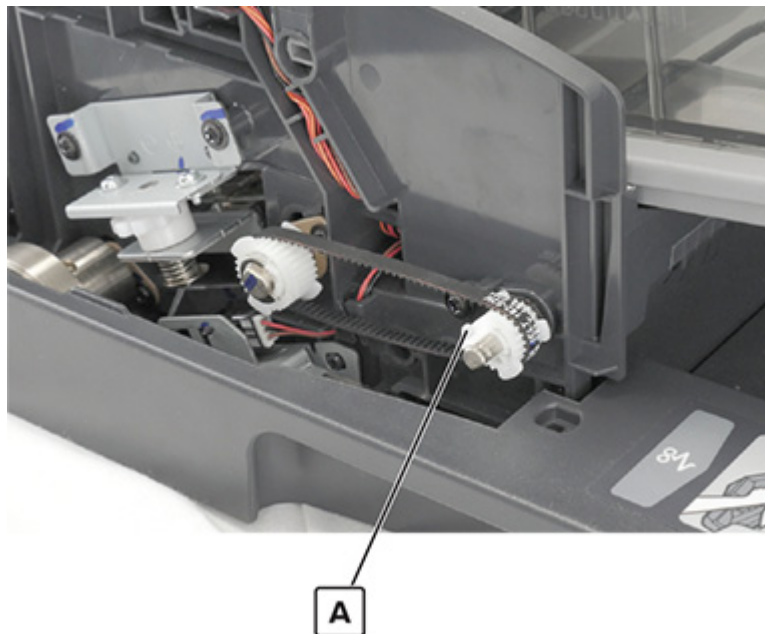
ADF scan roller 3 gear removal

- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 2 Remove the E-clip (A), and then remove the gear.



ADF exit roller gear removal

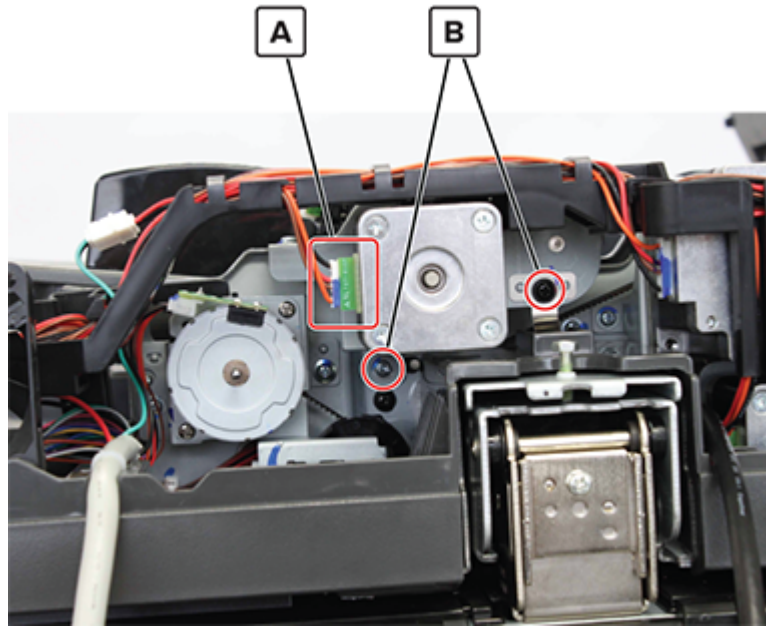
- 1 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 2 Release the latch, and then remove the gear (A).



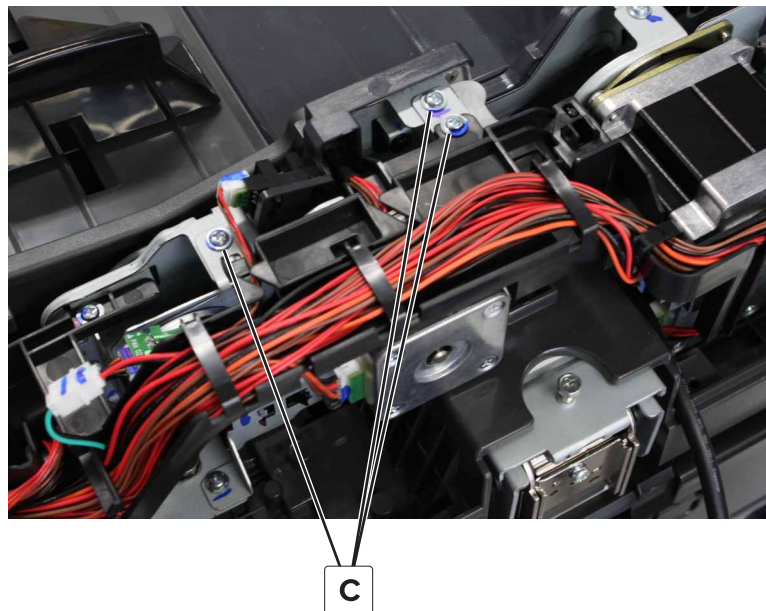
Motor (ADF feed) removal

- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Disconnect the cable (A), remove the two screws (B), and then remove the ground plate.

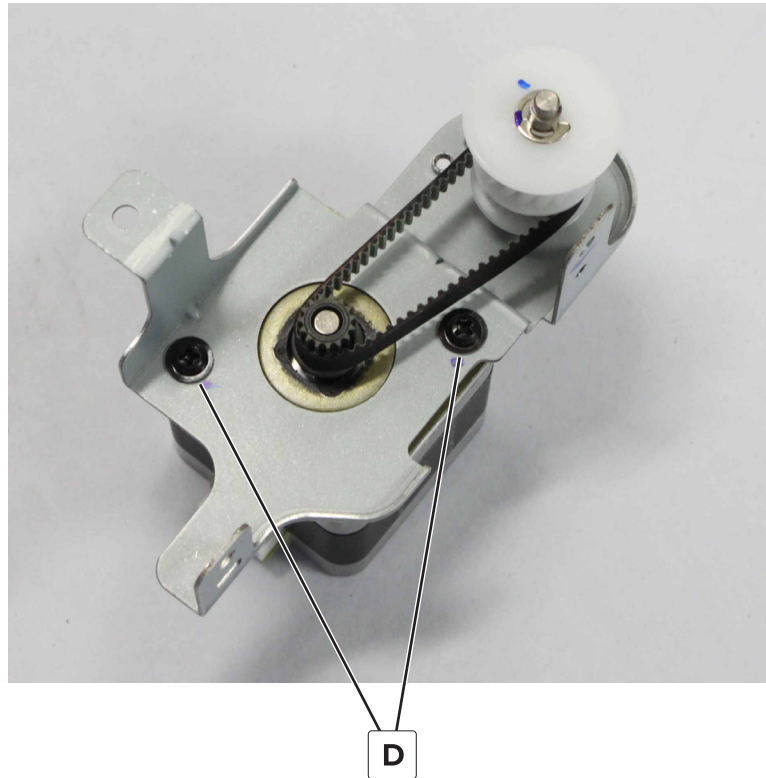
Warning—Potential Damage: Do not lose the ground plate.



- 3 Remove the three screws (C), and then remove the bracket.



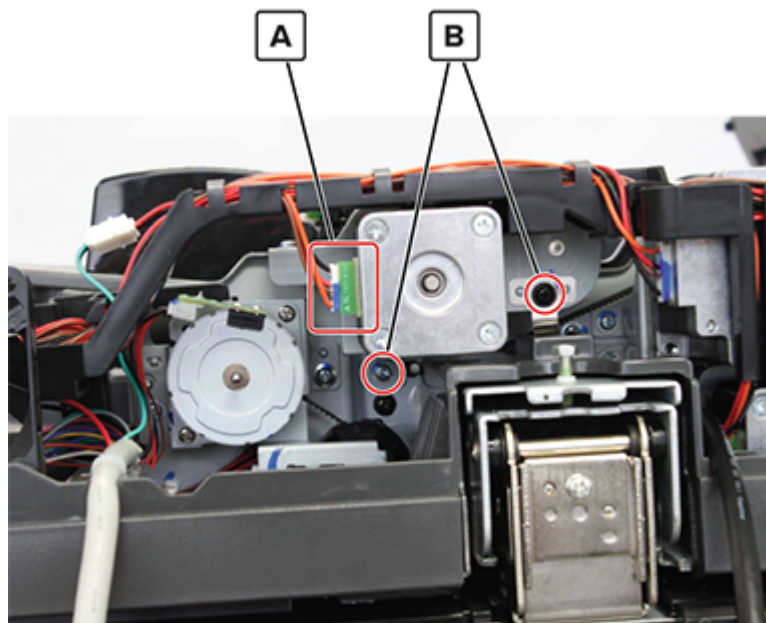
- 4 Remove the two screws (D), and then remove the motor.



ADF feed belt removal

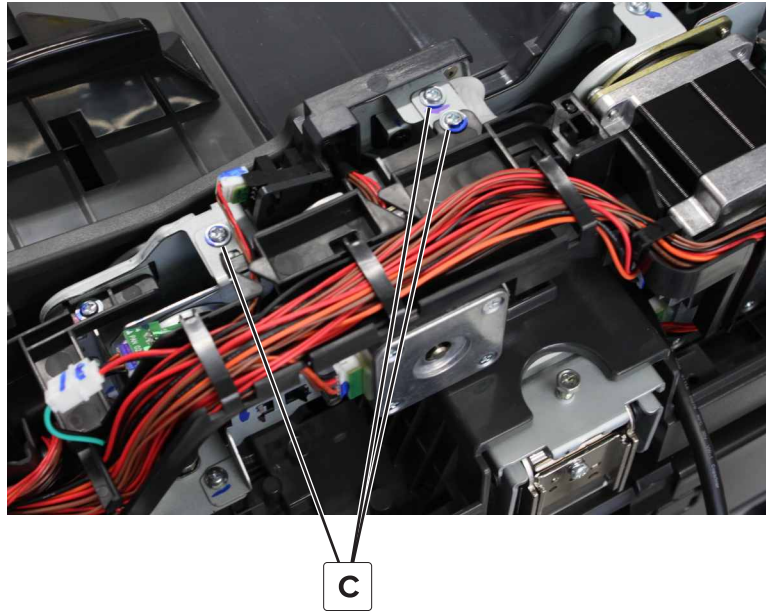
- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Disconnect the cable (A), remove the two screws (B), and then remove the ground plate.

Warning—Potential Damage: Do not lose the ground plate.

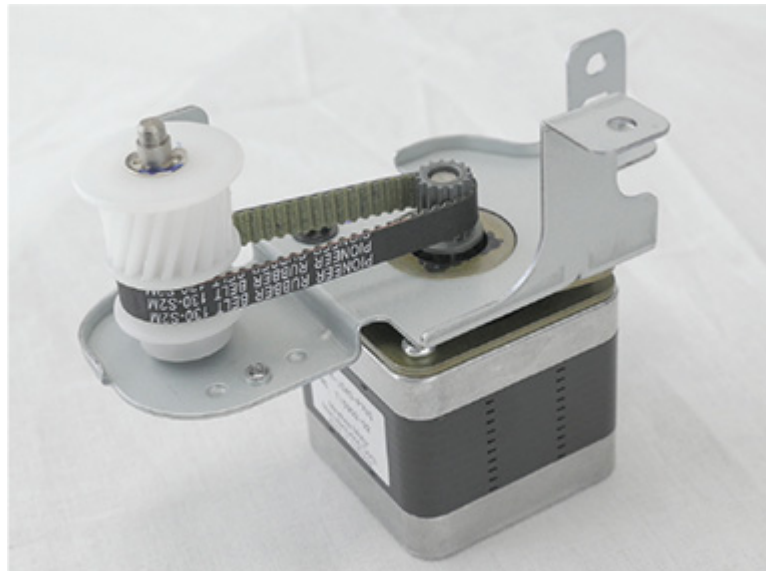


Parts removal

- 3** Remove the three screws (C), and then remove the bracket.



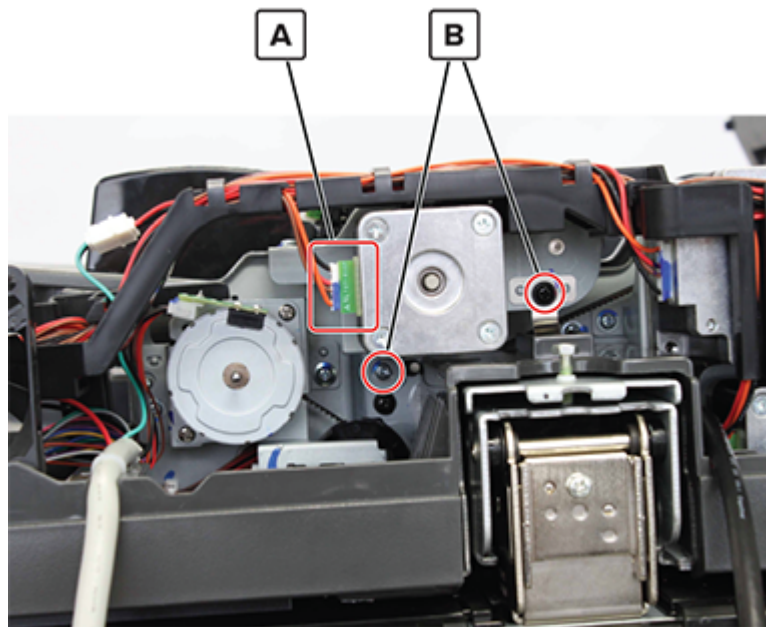
- 4** Remove the belt.



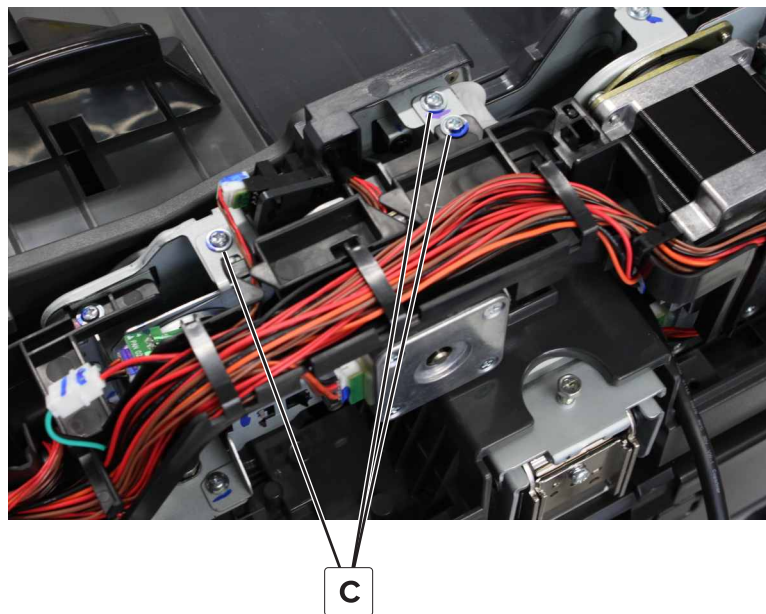
ADF document feed gear removal

- 1** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2** Disconnect the cable (A), remove the two screws (B), and then remove the ground plate.

Warning—Potential Damage: Do not lose the ground plate.

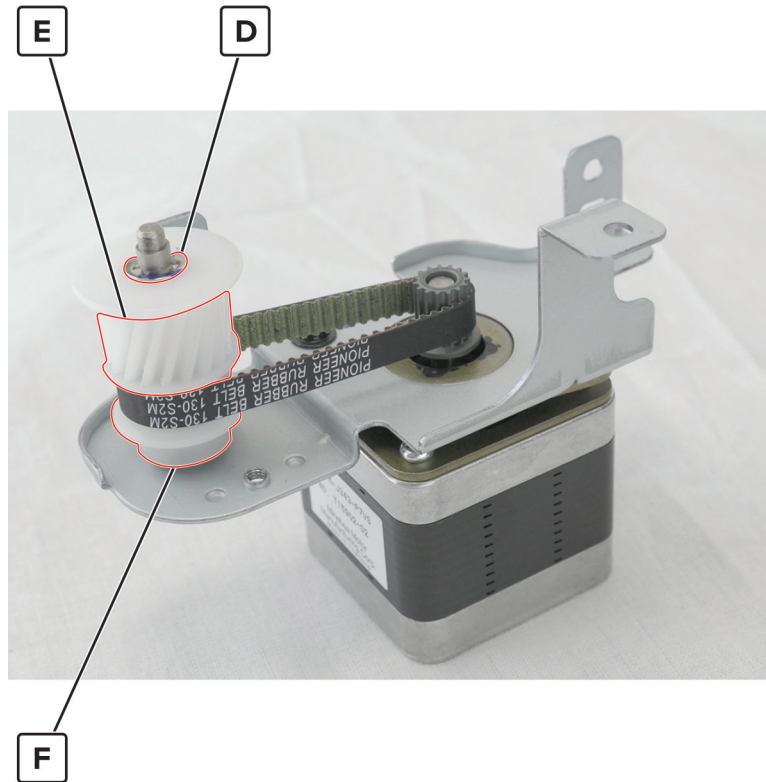


3 Remove the three screws (C), and then remove the bracket.



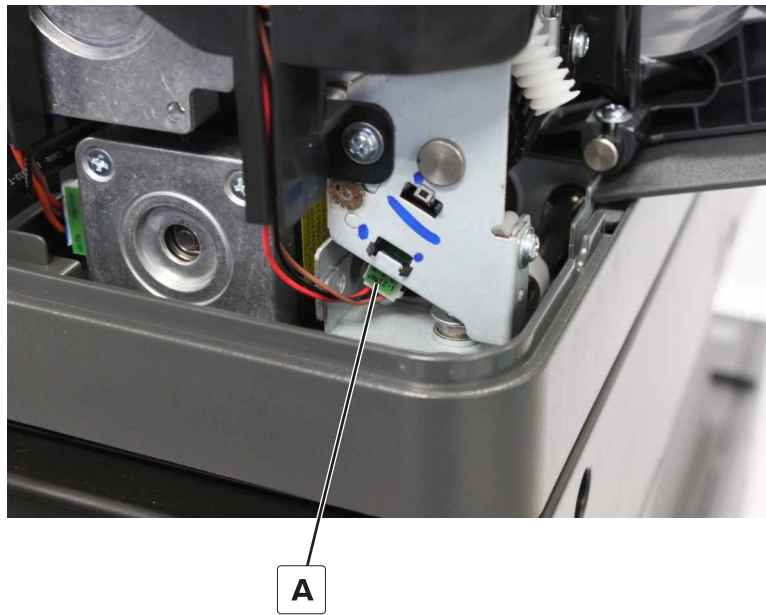
4 Remove the E-clip (D), and then remove the bushing.

- 5** Remove the ADF feed gear (E), and then remove the ADF document feed gear (F).



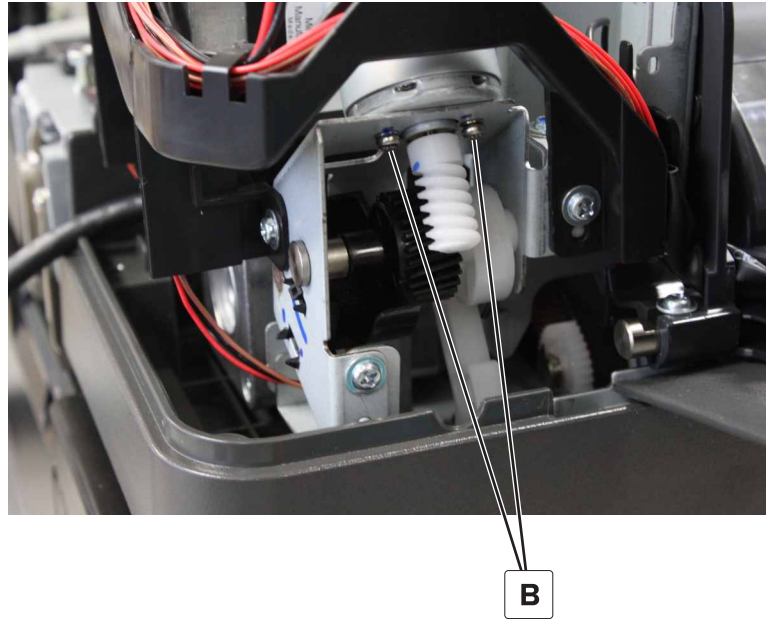
Motor (ADF scan shaft release) removal

- 1** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2** Disconnect the cable (A) from the ADF scan shaft home sensor.

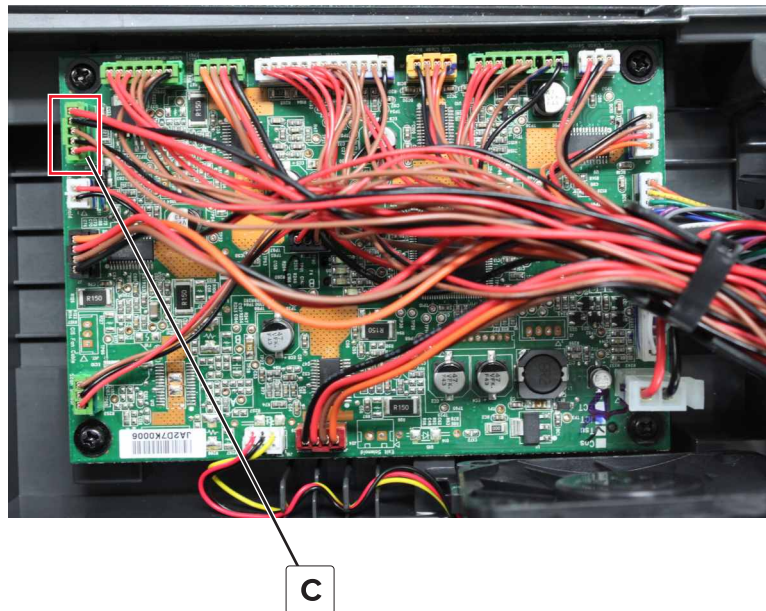


- 3** Remove the two screws (B).

Note: Use a #1 Phillips screwdriver.



- 4** Disconnect the J18 cable (C).

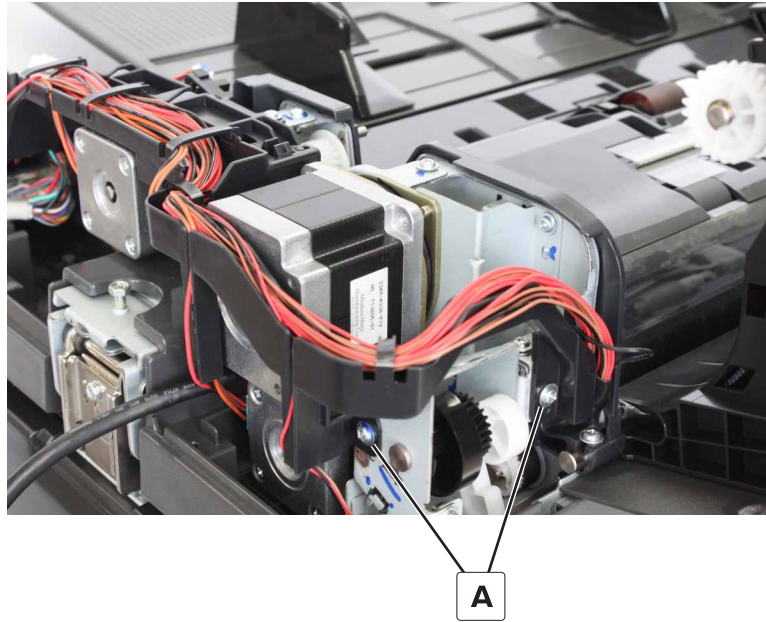


- 5** Remove the J18 cable (C) from the cable harness, and then remove the motor.

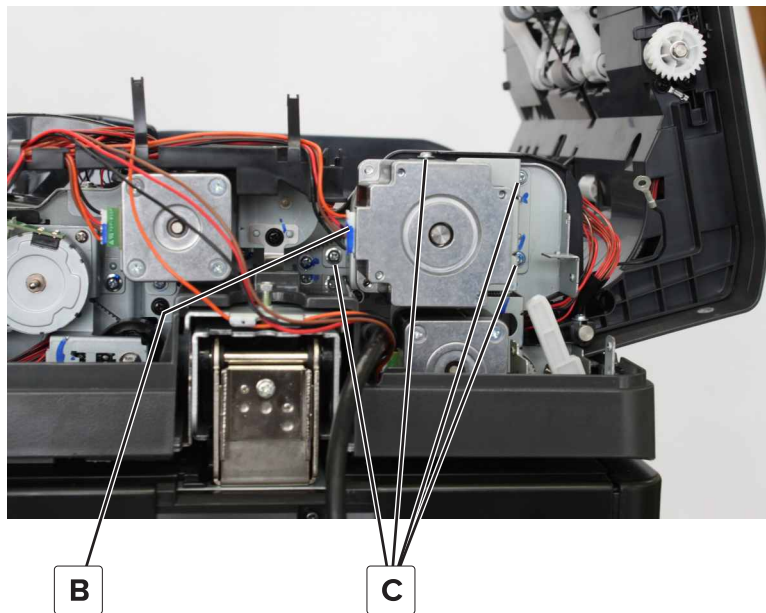
Motor (ADF scan) removal

- 1** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 2** Remove the motor (ADF scan shaft release). See [“Motor \(ADF scan shaft release\) removal” on page 811.](#)

- 3** Remove the two screws (A), and then remove the cable harness.



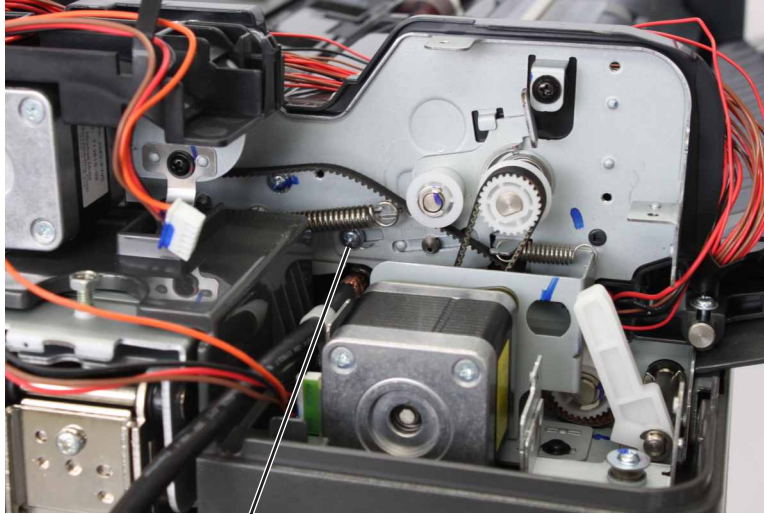
- 4** Disconnect the cable (B), remove the four screws (C), and then remove the motor (ADF scan bracket).



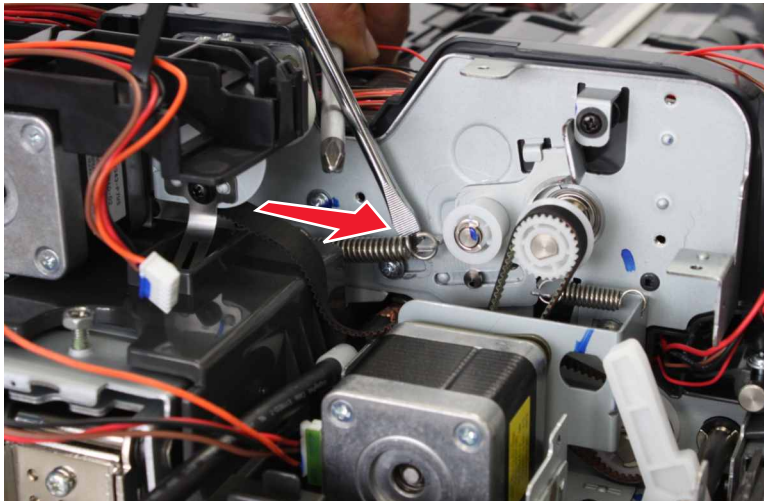
- 5** Remove the motor from its bracket.

Installation notes:

- a** Loosen the screw (D).

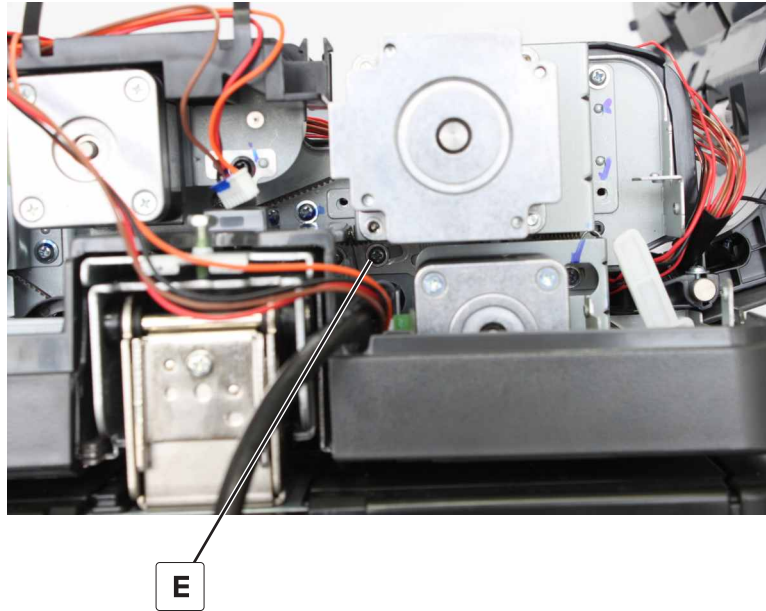
**D**

- b** Use a flat-head screwdriver to push the spring toward the left of the ADF, and then retighten the screw.



- c** Replace the motor, and then loosen the screw to engage the belt onto the motor.

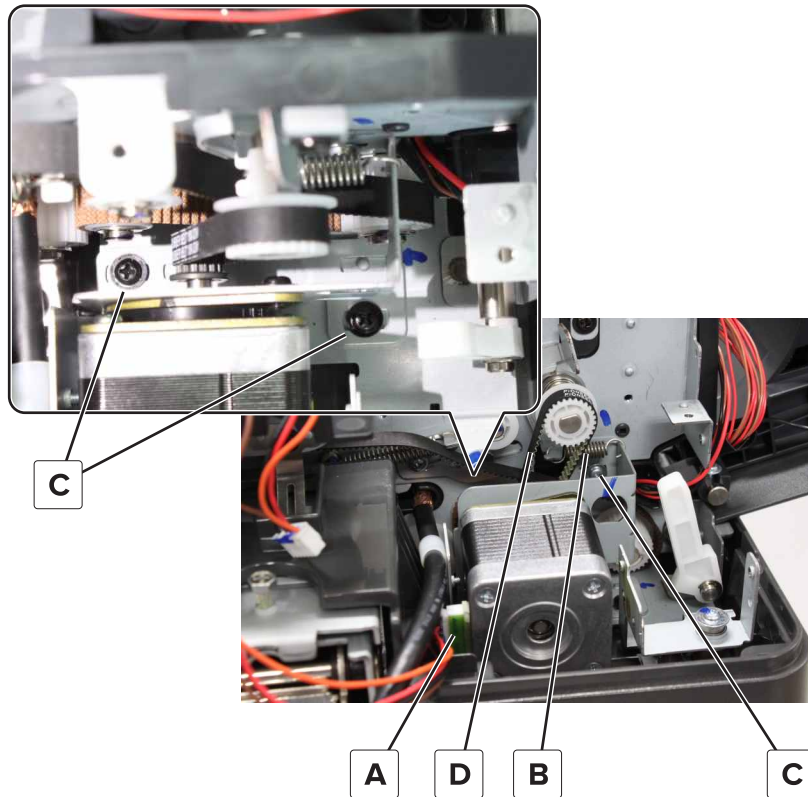
- d** Tighten the screw (E) to secure the belt onto the motor.



Motor (ADF registration) removal

- 1** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2** Remove the motor (ADF scan) bracket. See [“Motor \(ADF scan\) removal” on page 812](#).
- 3** Disconnect the cable (A), and then remove the spring (B).

- 4** Remove the three screws (C), and then remove the belt (D).

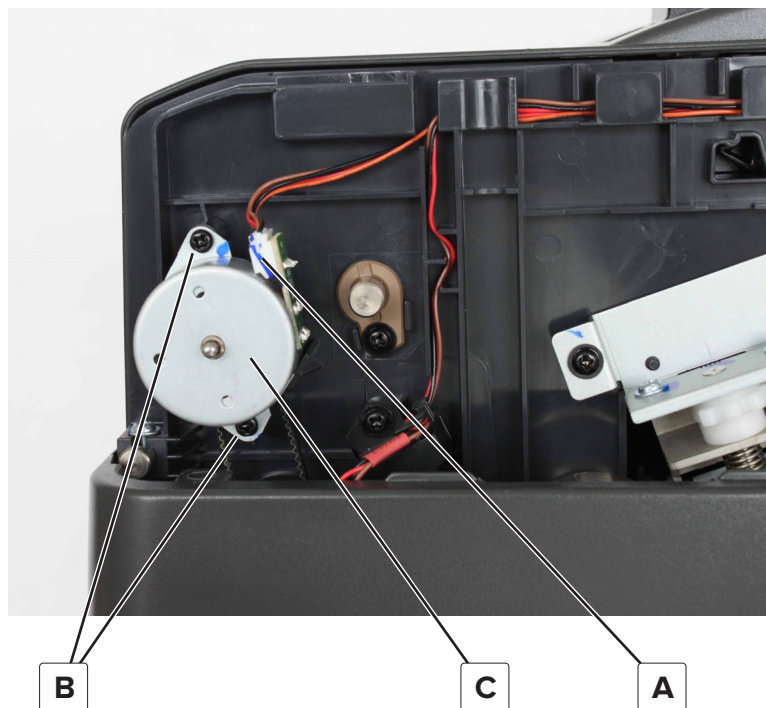


- 5** Remove the motor from the ADF, and then remove the motor from the bracket.

Motor (CIS glass clean) removal

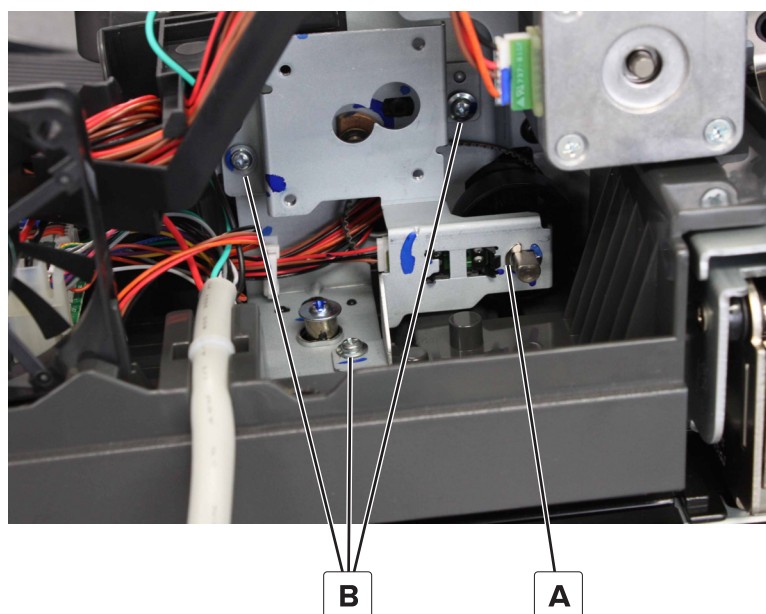
- 1** Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 2** Disconnect the cable (A), and then remove the two screws (B).

- 3** Remove the motor (C).



Sensor (ADF CIS clean) removal

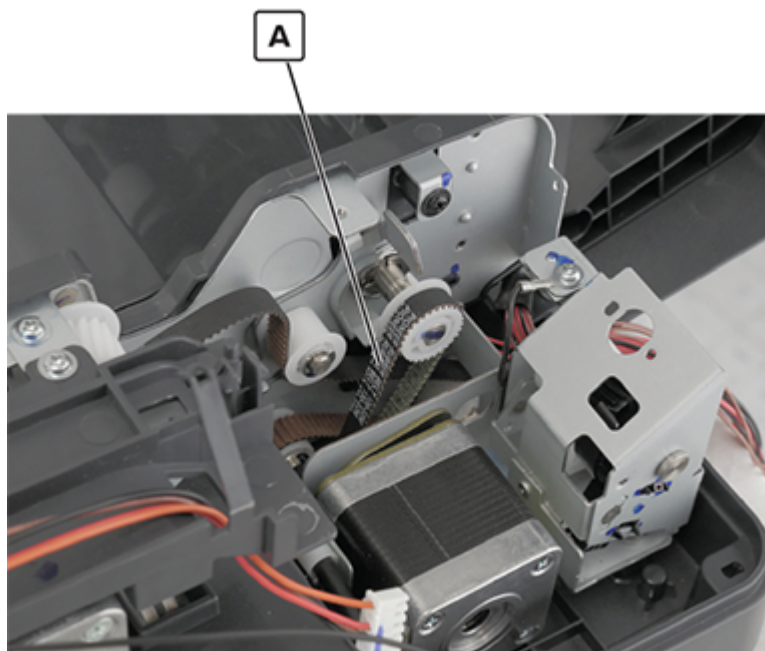
- 1** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2** Remove the ADF CIS cleaning motor. See [“Motor \(ADF CIS clean\) removal” on page 763](#).
- 3** Remove the clip (A), and then remove the three screws (B).



- 4 Remove the bracket, and then disconnect the cable.
- 5 Remove the sensor.

ADF registration gear removal

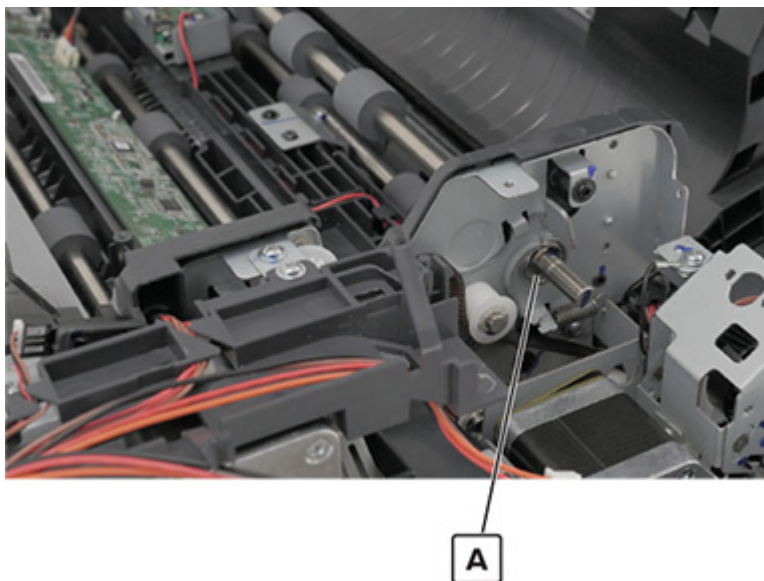
- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Remove the motor (ADF scan shaft release). See [“Motor \(ADF scan shaft release\) removal” on page 811](#).
- 3 Remove the motor (ADF scan) bracket. See [“Motor \(ADF scan\) removal” on page 812](#).
- 4 Release the ADF registration belt (A), and then remove the gear.



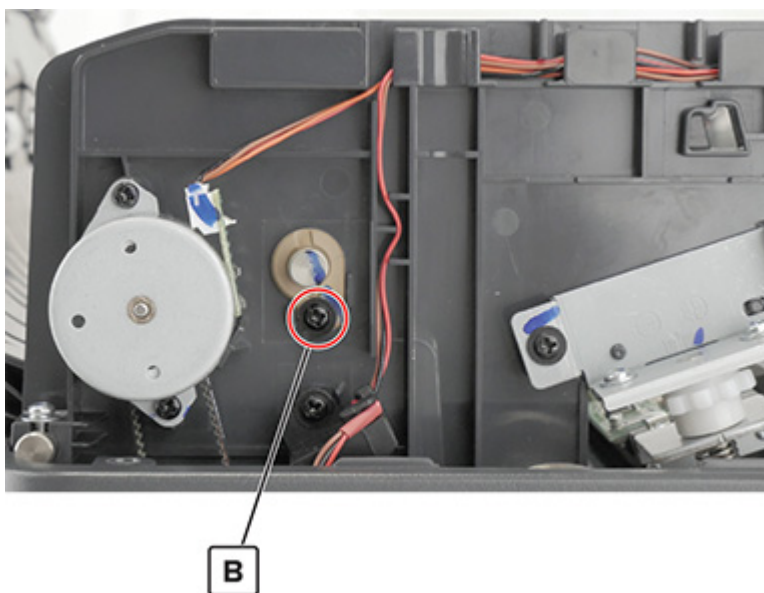
ADF registration roller removal

- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Remove the ADF registration guide. See [“ADF registration guide removal” on page 753](#).
- 3 Remove the motor (ADF scan shaft release). See [“Motor \(ADF scan shaft release\) removal” on page 811](#).
- 4 Remove the motor (ADF scan) bracket. See [“Motor \(ADF scan\) removal” on page 812](#).
- 5 Remove the ADF registration gear. See [“ADF registration gear removal” on page 818](#).

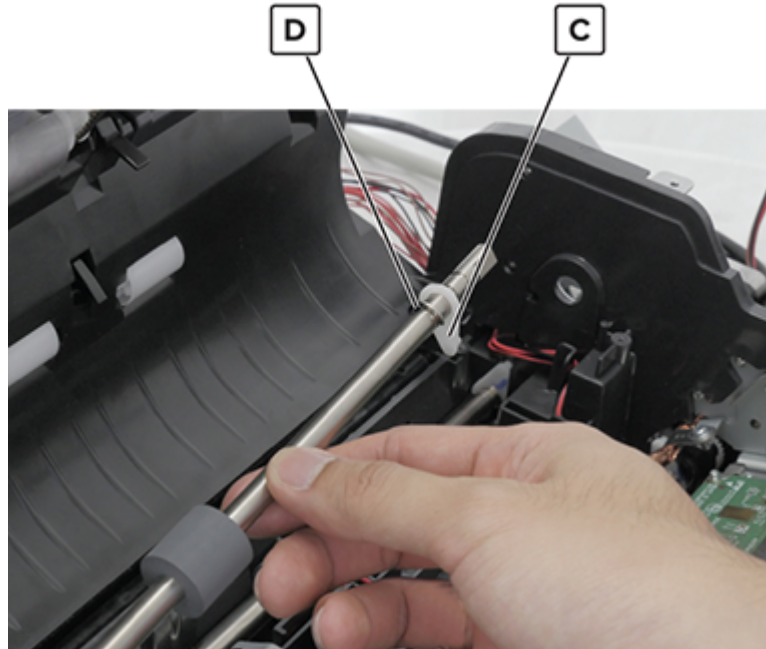
6 Remove the E-clip (A).



7 Remove the screw (B), and then remove the bushing.



- 8 Release the rear end of the shaft, and then remove the shaft retainer (C) and E-clip (D).

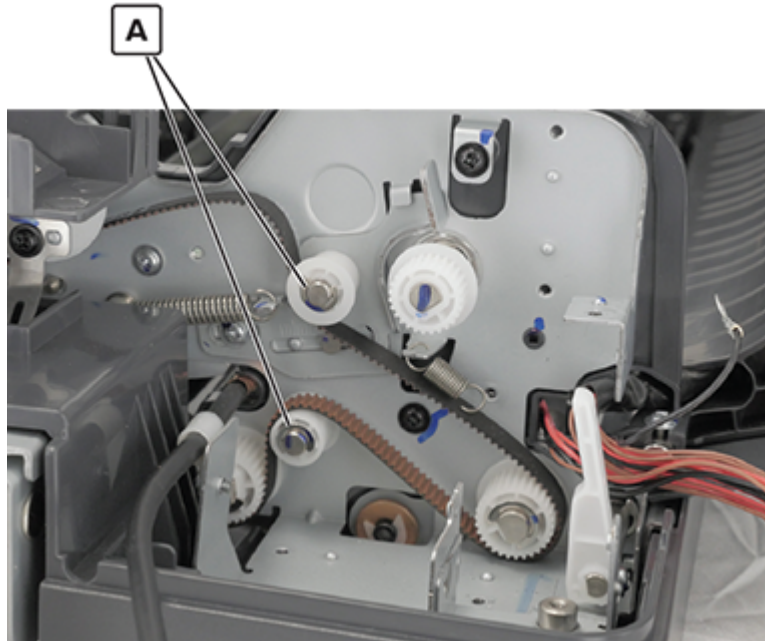


- 9 Remove the roller.

ADF document registration idler pulley removal

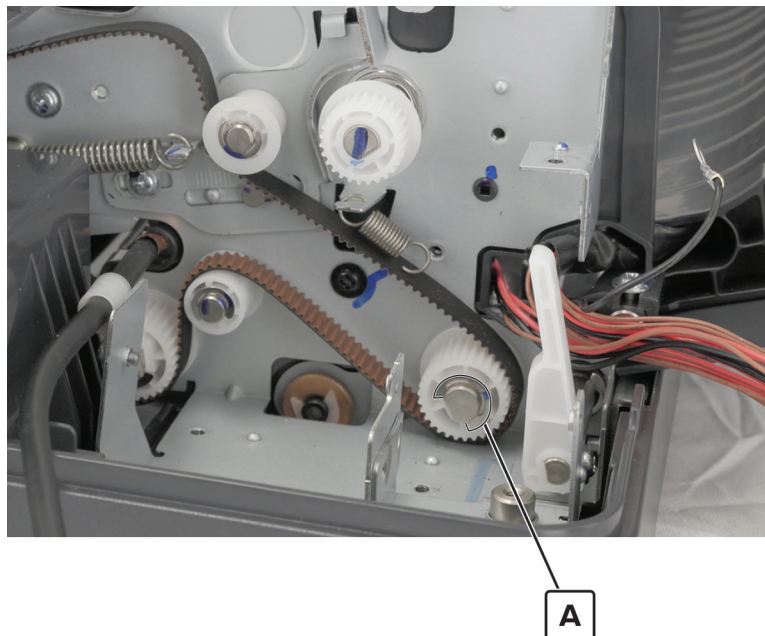
- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Remove the motor (ADF scan shaft release). See [“Motor \(ADF scan shaft release\) removal” on page 811](#).
- 3 Remove the motor (ADF scan) bracket. See [“Motor \(ADF scan\) removal” on page 812](#).
- 4 Remove the motor (ADF registration) bracket. See [“Motor \(ADF registration\) removal” on page 815](#).

- 5 Remove the appropriate E-clip (A), and then remove the pulley.



ADF transport gear removal

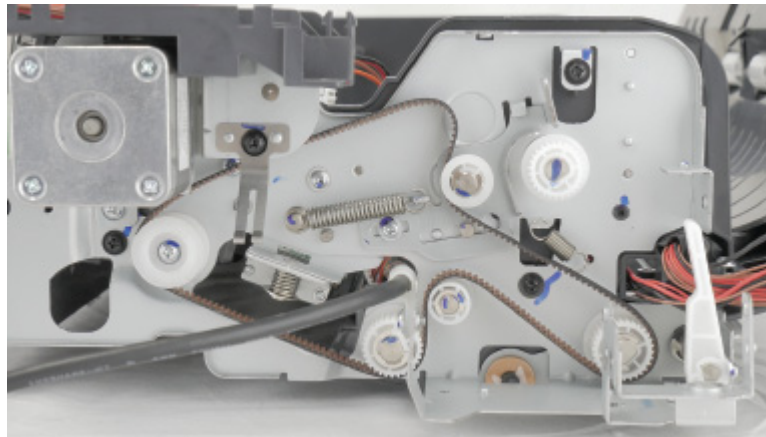
- 1 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 2 Remove the motor (ADF scan shaft release). See [“Motor \(ADF scan shaft release\) removal” on page 811](#).
- 3 Remove the motor (ADF scan) bracket. See [“Motor \(ADF scan\) removal” on page 812](#).
- 4 Remove the motor (ADF registration) bracket. See [“Motor \(ADF registration\) removal” on page 815](#).
- 5 Remove the E-clip (A), and then remove the gear.



ADF scan motor belt removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5 Remove the motor (ADF scan shaft release) bracket. See [“Motor \(ADF scan shaft release\) removal” on page 811](#).
- 6 Remove the motor (ADF scan) bracket. See [“Motor \(ADF scan\) removal” on page 812](#).
- 7 Remove the motor (ADF registration) bracket. See [“Motor \(ADF registration\) removal” on page 815](#).
- 8 Remove the belt.

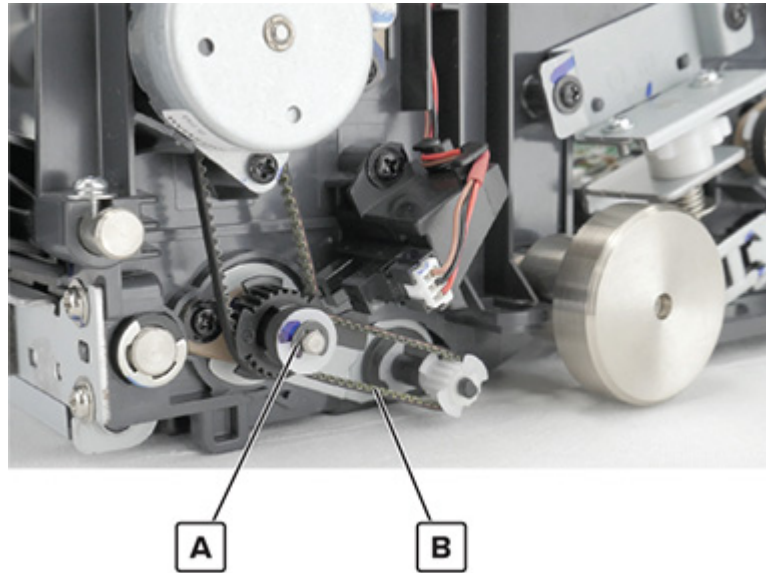
Installation note: Take note of the route and position of the belt.



CIS glass clean belt removal

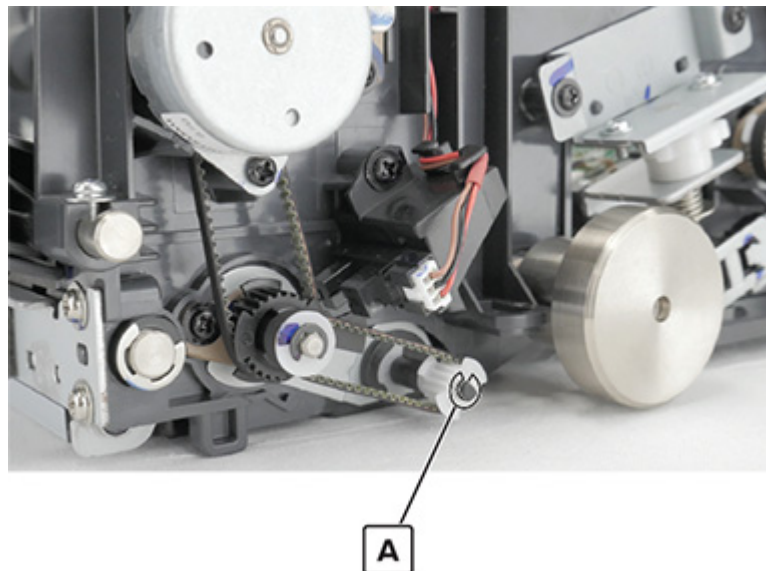
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5 Remove the E-clip (A), and then remove the bushing.

- 6** Remove the belt (B).



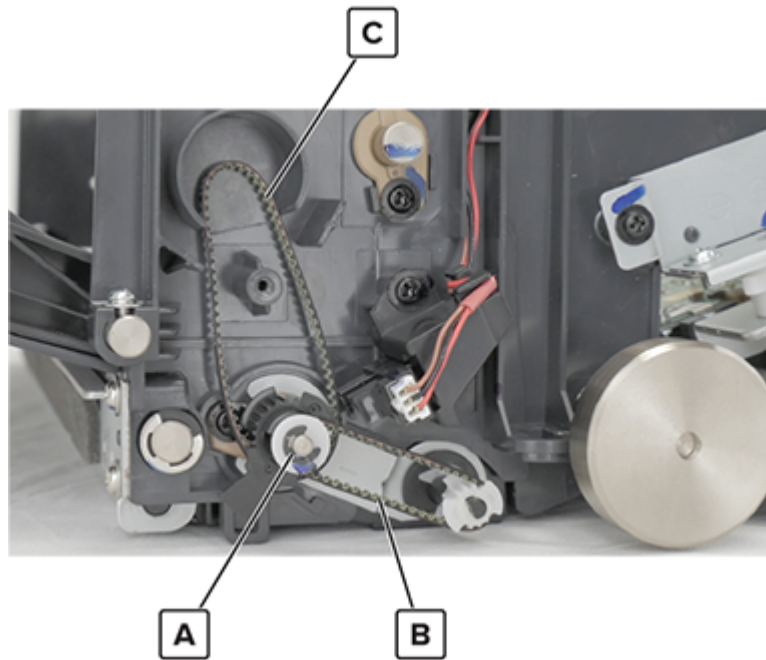
CIS glass clean gear removal

- 1** Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 2** Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 3** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 4** Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773.](#)
- 5** Remove the clip (A), and then remove the gear.



ADF glass clean encoder belt removal

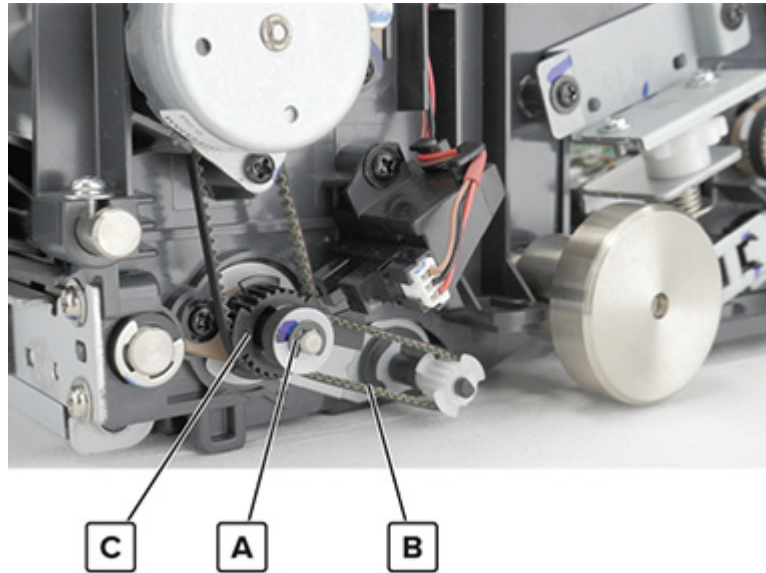
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5 Remove the motor (CIS glass clean). See [“Motor \(CIS glass clean\) removal” on page 816](#).
- 6 Remove the E-clip (A), and then remove the bushing and CIS glass clean belt (B).
- 7 Remove the ADF glass clean encoder belt (C).



ADF glass clean encoder removal

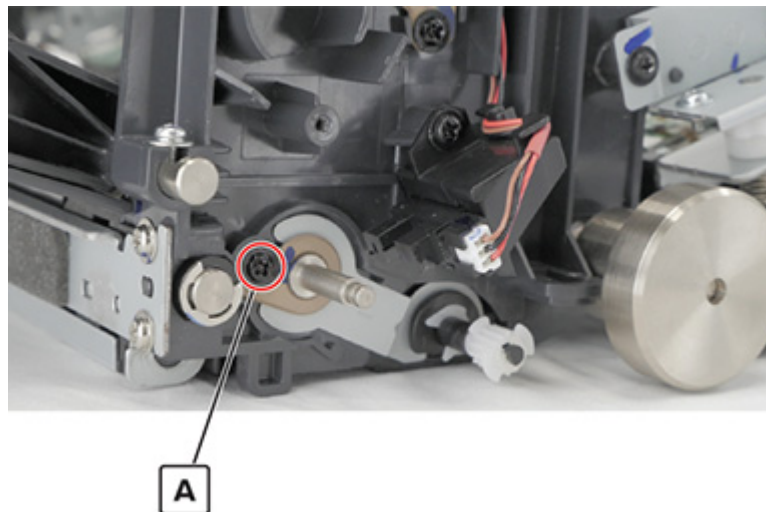
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5 Remove the E-clip (A), and then remove the bushing and belt (B).

- 6 Remove the encoder (C).

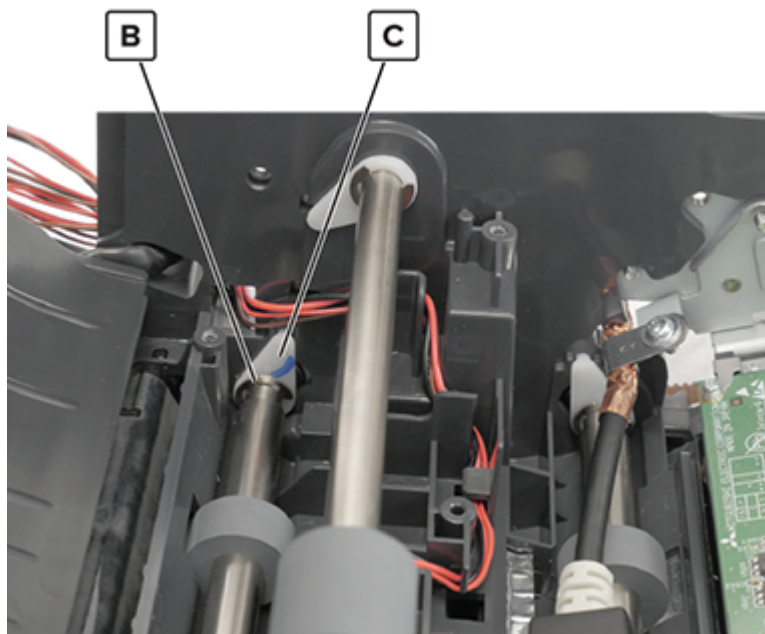


ADF scan roller 1 removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773.](#)
- 5 Remove the ADF glass clean encoder. See [“ADF glass clean encoder removal” on page 824.](#)
- 6 Remove the screw (A), and then remove the bushing.



- 7 Remove the E-clip (B), and then remove the shaft retainer (C).

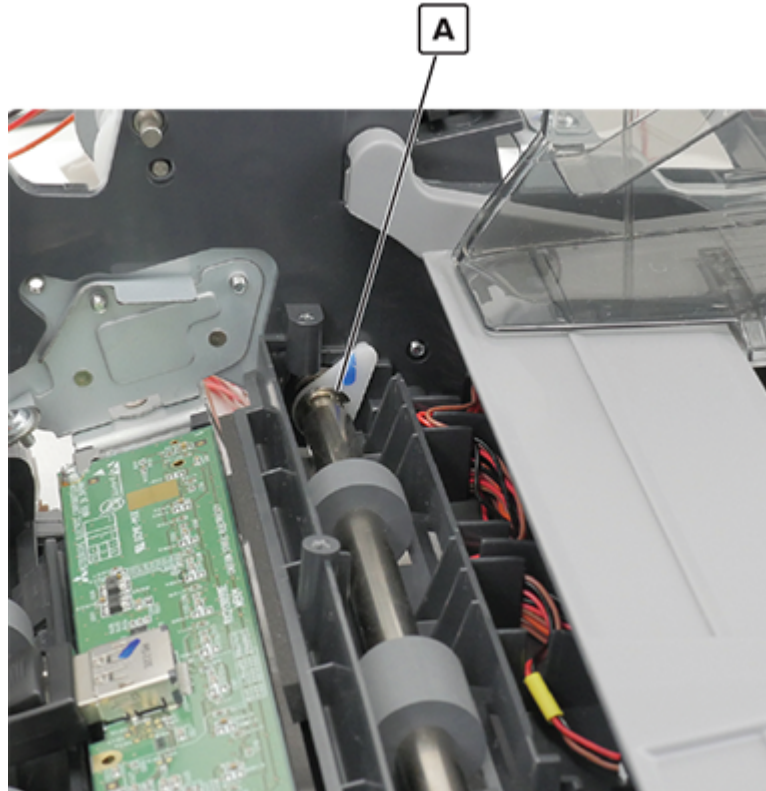


- 8 Remove the roller.

ADF scan roller 3 removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5 Remove the ADF scan roller 2 gear. See [“ADF scan roller 2 gear removal” on page 777](#).
- 6 Remove the ADF scan roller 3 gear. See [“ADF scan roller 3 gear removal” on page 806](#).

- 7 Remove the E-clip (A), and then remove the retainer.

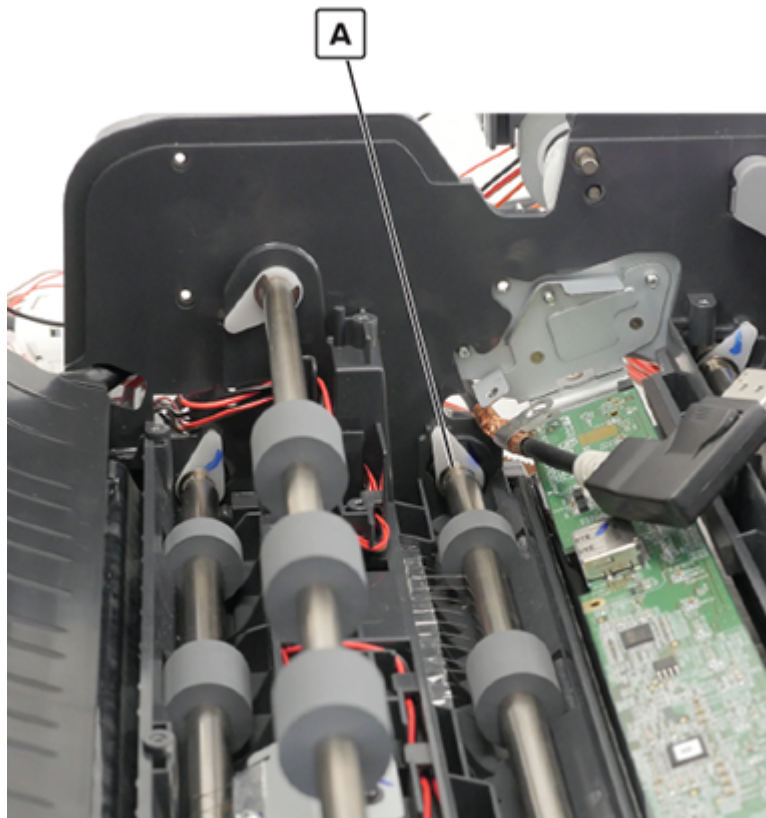


- 8 Remove the roller.

ADF scan roller 2 removal

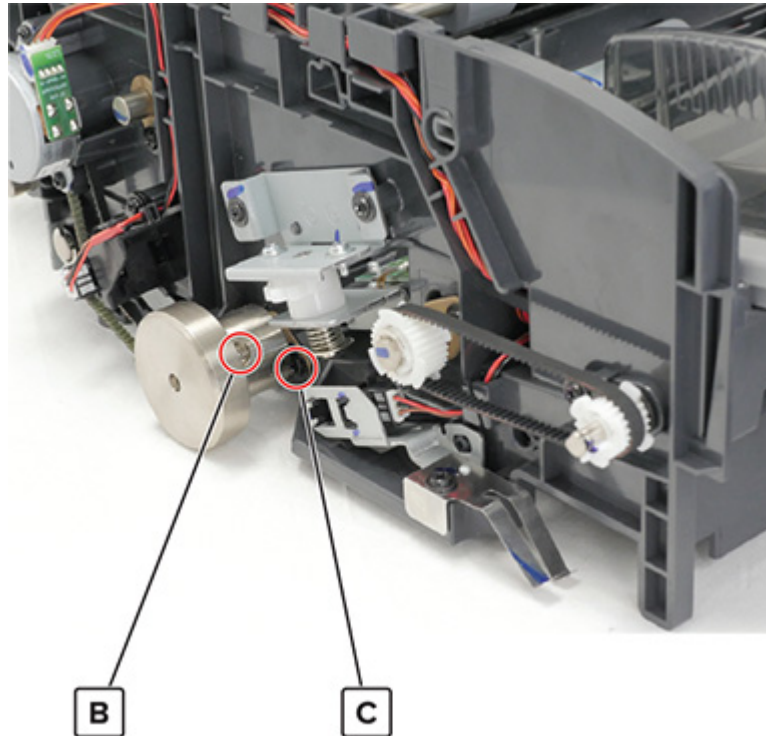
- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5 Remove the ADF scan motor gear. See [“ADF scan motor gear removal” on page 777](#).

- 6** Remove the E-clip (A), and then remove the retainer.



- 7** Remove the screw (B), and then remove the knob.

- 8 Remove the screw (C), and then remove the bushing.

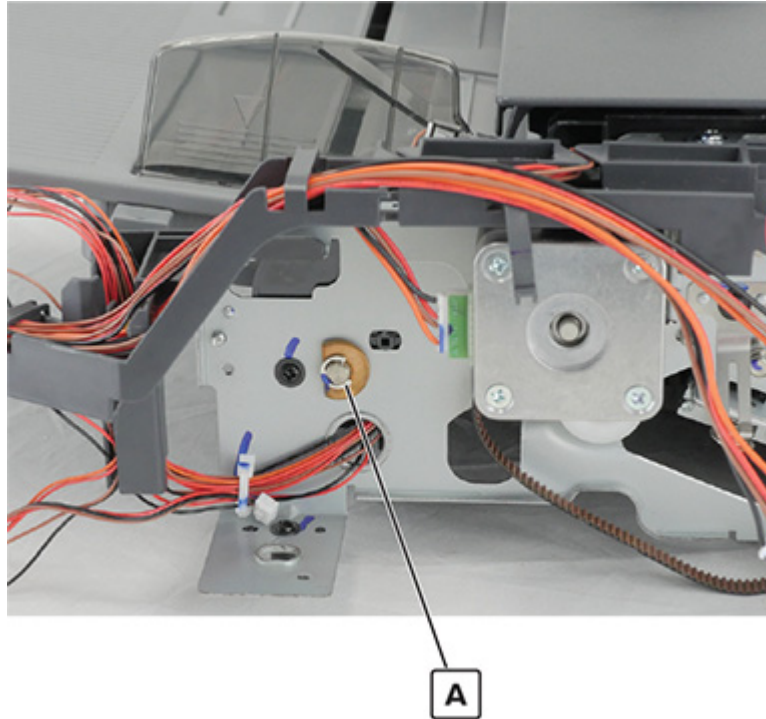


- 9 Remove the roller.

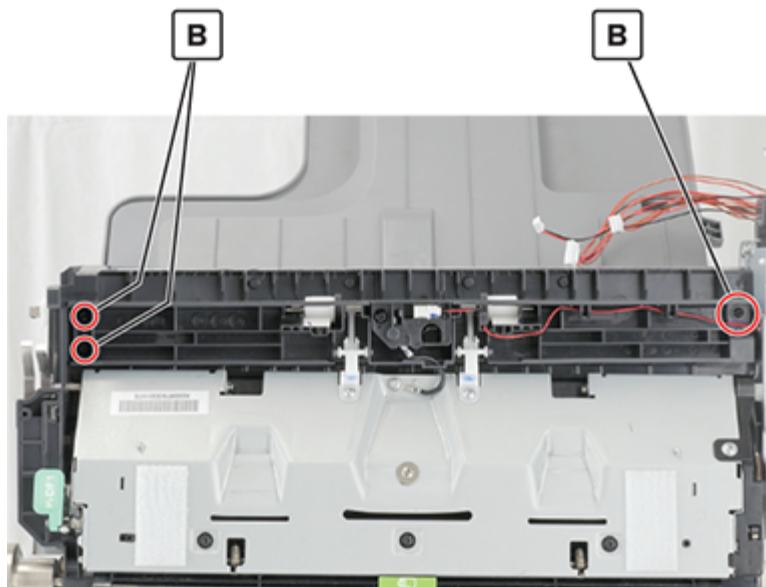
ADF document exit roller removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773.](#)

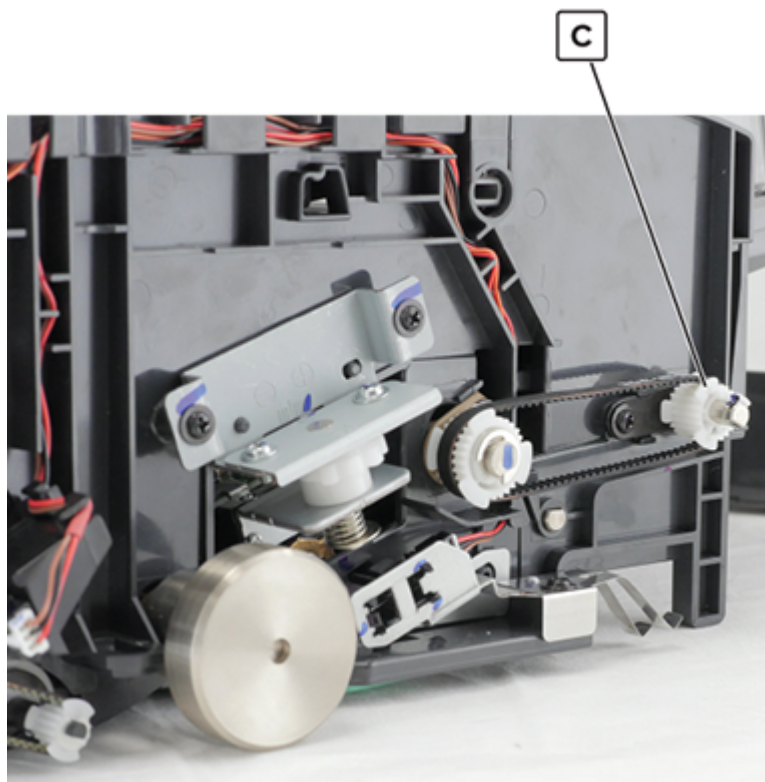
- 5** Remove the E-clip (A), and then remove the bushing.



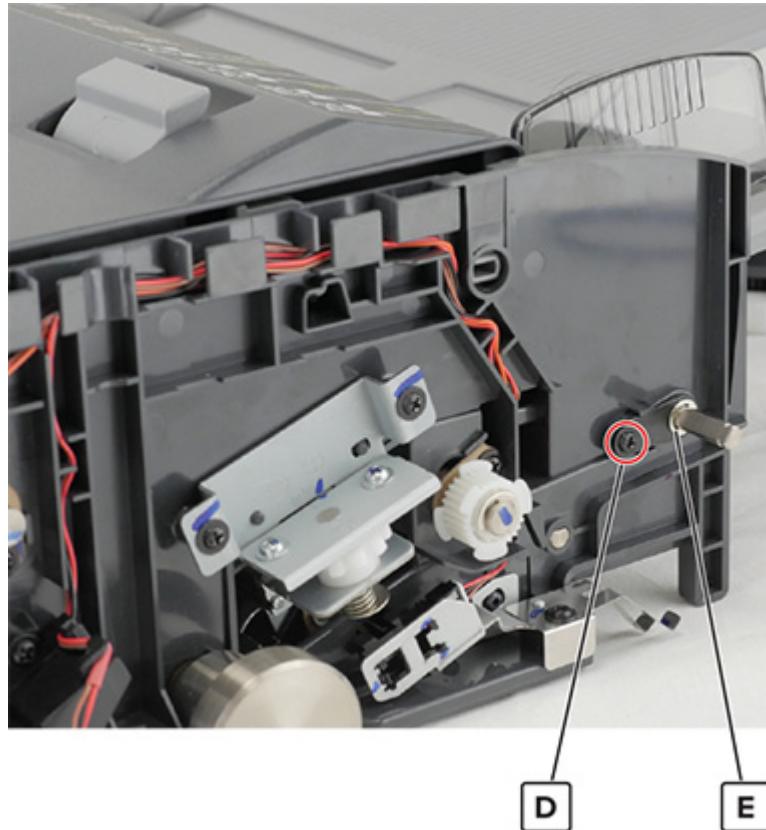
- 6** Remove the three screws (B) under the tray, and then pull the exit cover.



- 7 Release the latch, and then remove the gear (C).



- 8** Remove the screw (D) and E-clip (E), and then remove the retainer.

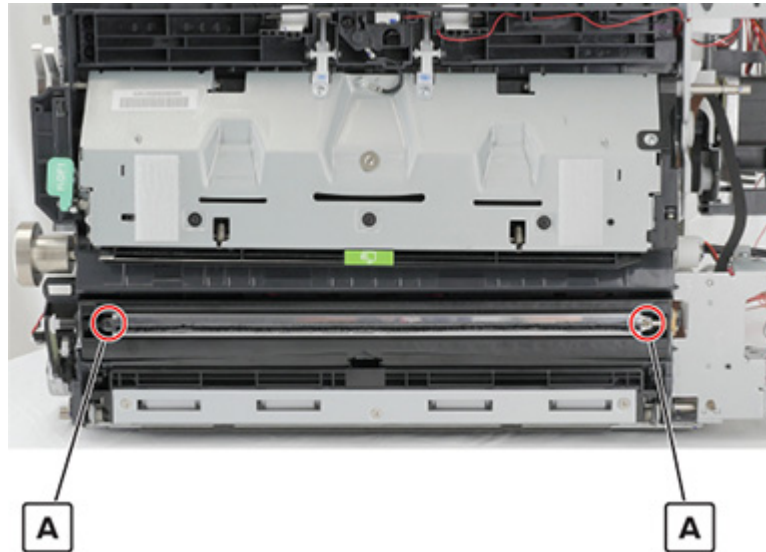


- 9** Remove the roller.

Scan glass brush removal

- 1** Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 2** Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 3** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 4** Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773.](#)

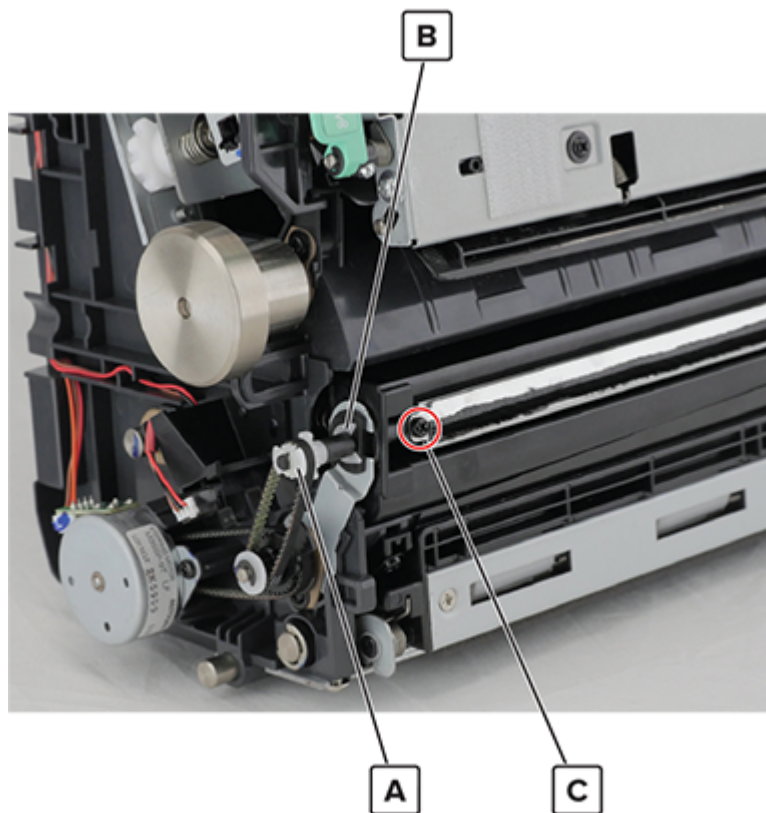
- 5** Remove the two screws (A), and then remove the brush.



Cleaning shaft removal

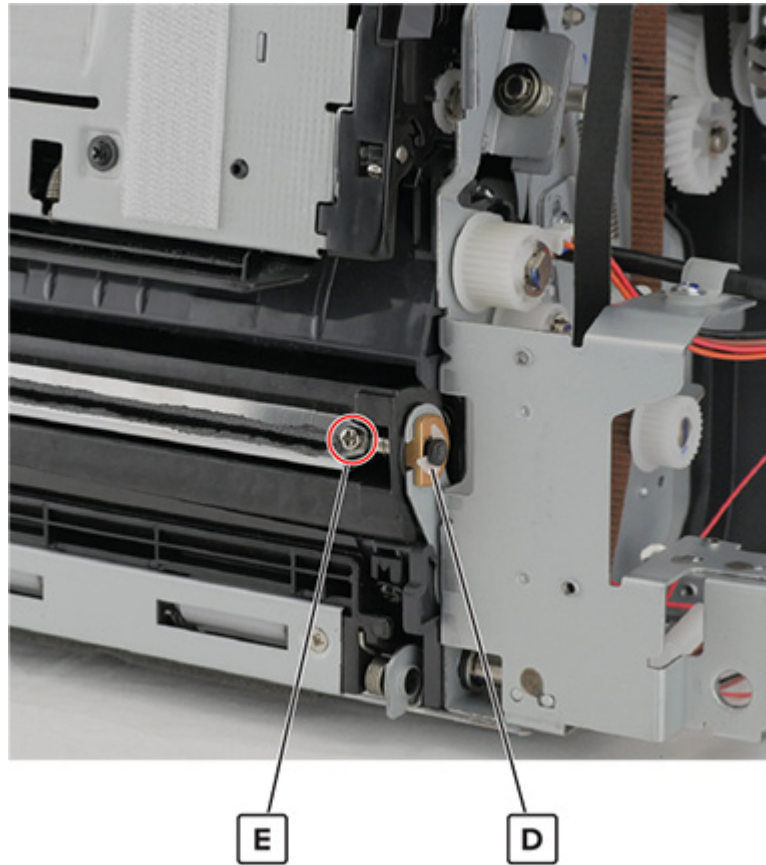
- 1** Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2** Remove the ADF front cover. See [“ADF front cover removal” on page 751](#).
- 3** Remove the ADF rear cover. See [“ADF rear cover removal” on page 751](#).
- 4** Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773](#).
- 5** Release the latch, and then remove the gear (A).
- 6** Remove the clip (B), and then remove the bushing.

7 Remove the screw (C).



8 Remove the clip (D), and then remove the bushing.

- 9 Remove the screw (E), and then remove the brush.

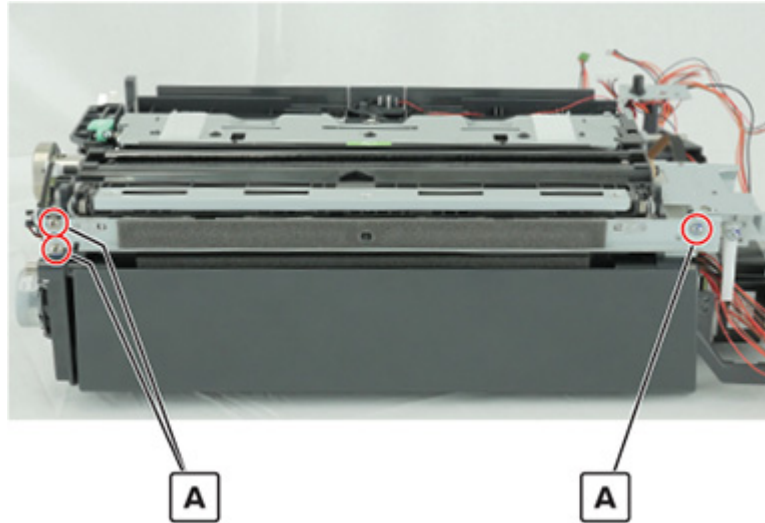


- 10 Remove the cleaning shaft with scan glass cleaner, and then separate the shaft from the cleaner.

ADF scan deflector removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 2 Remove the ADF front cover. See [“ADF front cover removal” on page 751.](#)
- 3 Remove the ADF rear cover. See [“ADF rear cover removal” on page 751.](#)
- 4 Remove the ADF tray/transport. See [“ADF tray/transport removal” on page 773.](#)

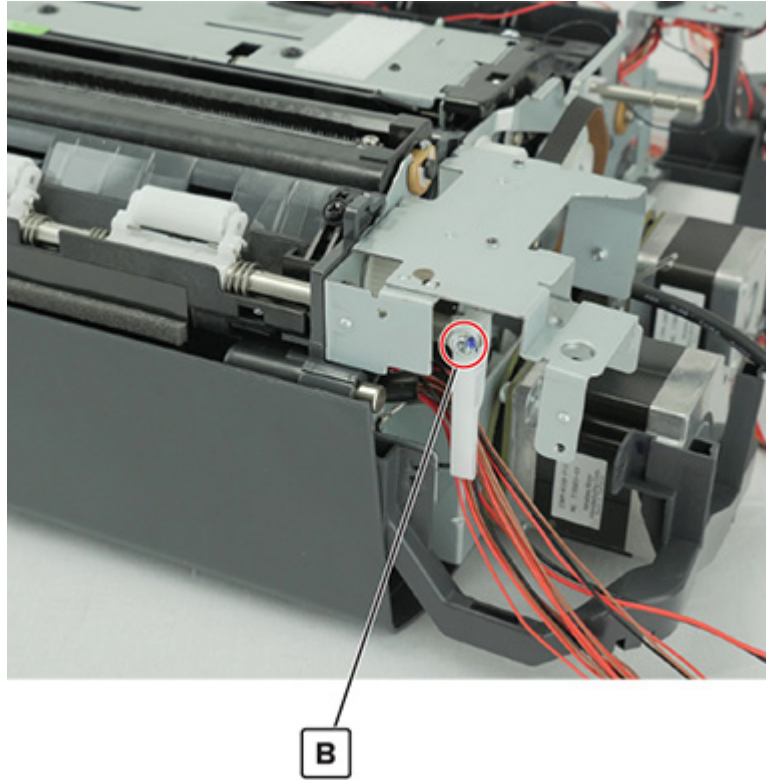
- 5 Remove the three screws (A), and then remove the ADF scan guide.



Installation note: Take note of the position of the flaps.

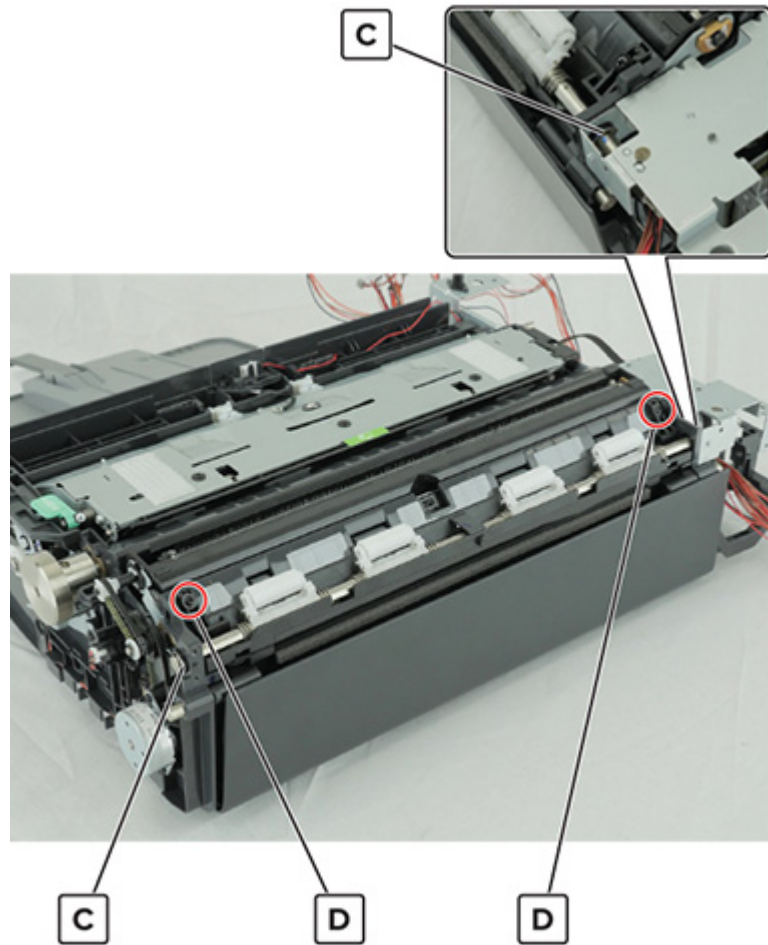


- 6** Remove the screw (B), and then remove the actuator.



- 7** Remove the two E-clips (C), and then remove the bushings.

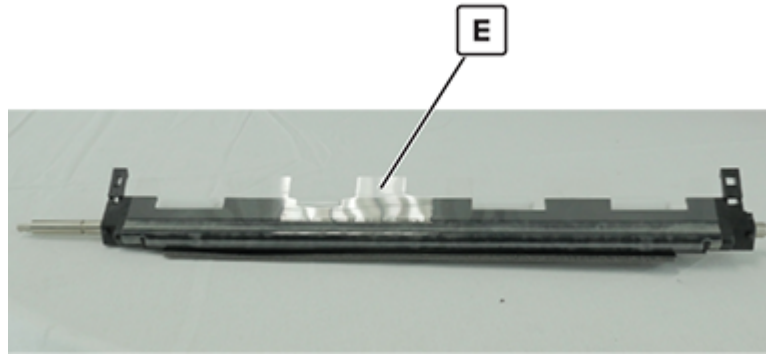
8 Remove the two screws (D).



9 Slide the shaft to release, and then separate the ADF scan roller 1 backup roller from the ADF scan deflector.

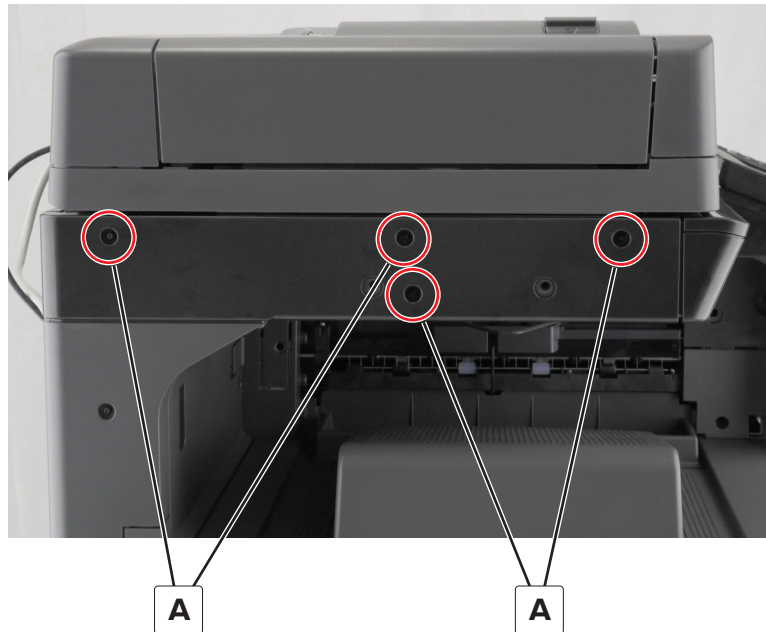


The ADF scan deflector (E) is shown in the following illustration.



Scanner left cover removal

- 1 Remove the four screws (A).

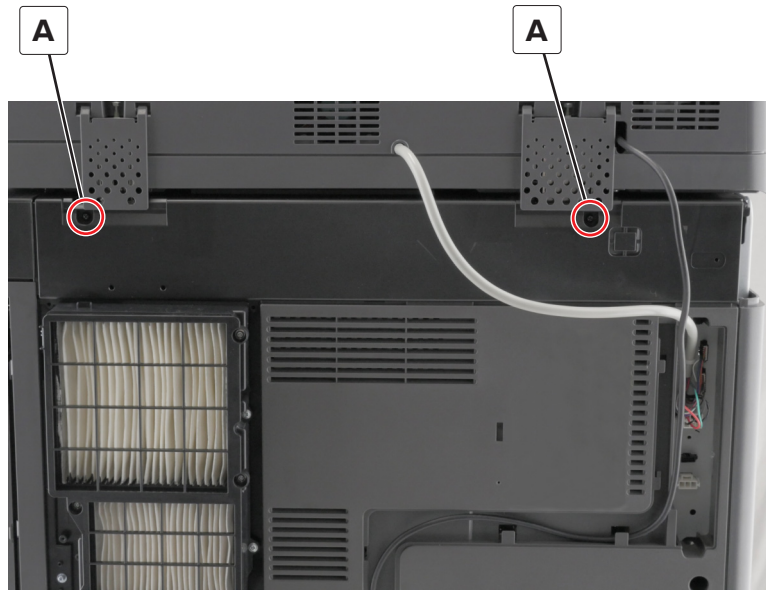


- 2 Remove the cover.

Scanner rear cover removal

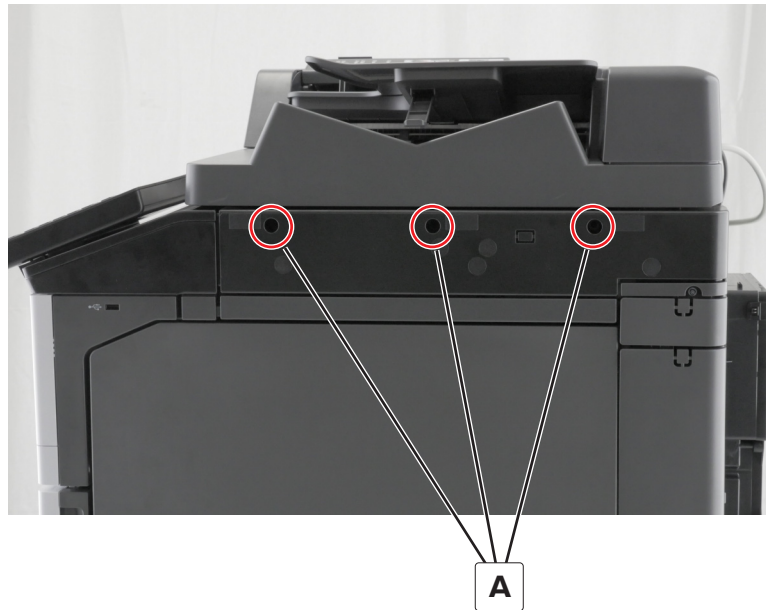
- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the scanner left cover. See [“Scanner left cover removal” on page 839](#).

4 Remove the two screws (A), and then remove the cover.



Scanner right cover removal

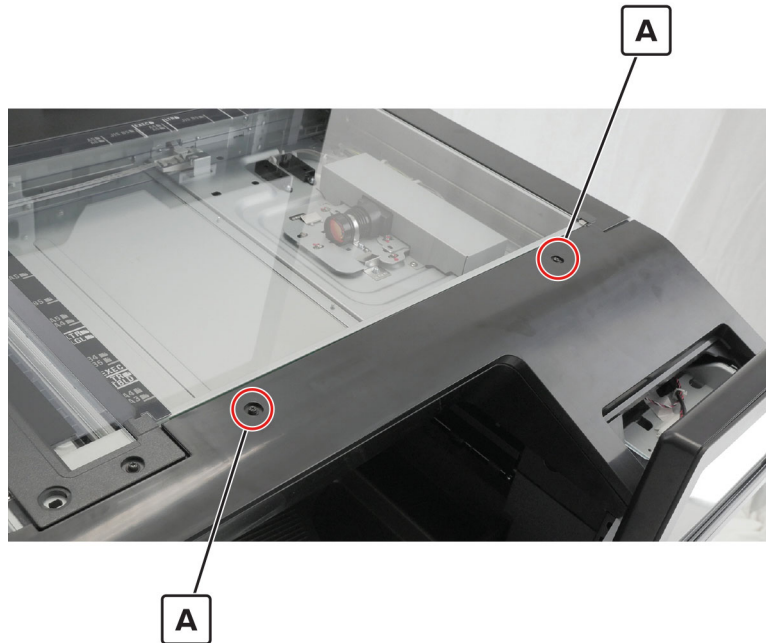
1 Remove the three screws (A).



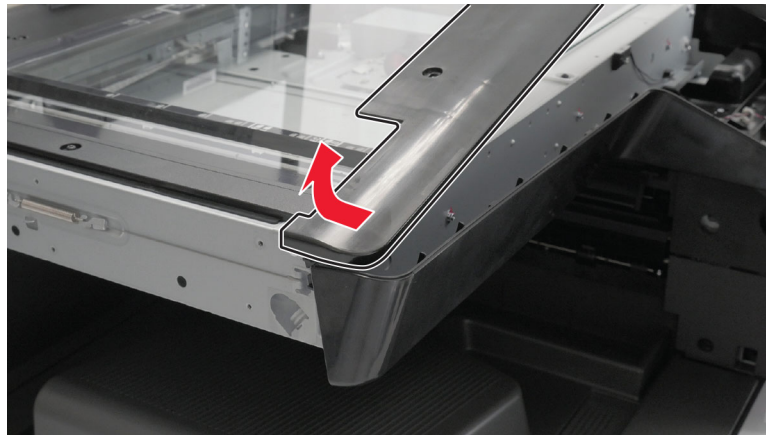
2 Remove the cover.

Scanner front cover removal

- 1 Remove the control panel support base. See [“Control panel support base removal” on page 546.](#)
- 2 Remove the two screws (A).



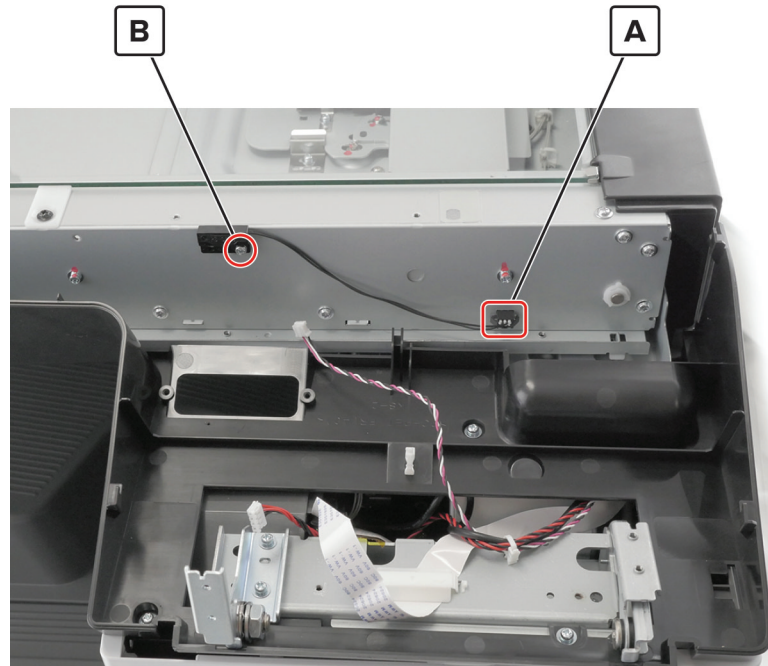
- 3 Push the cover to release, and then remove it.



Sensor (scanner cover switch) removal

- 1 Remove the control panel support base. See [“Control panel support base removal” on page 546.](#)
- 2 Remove the scanner front cover. See [“Scanner front cover removal” on page 841.](#)

- 3 Disconnect the cable (A), and then remove the screw (B).

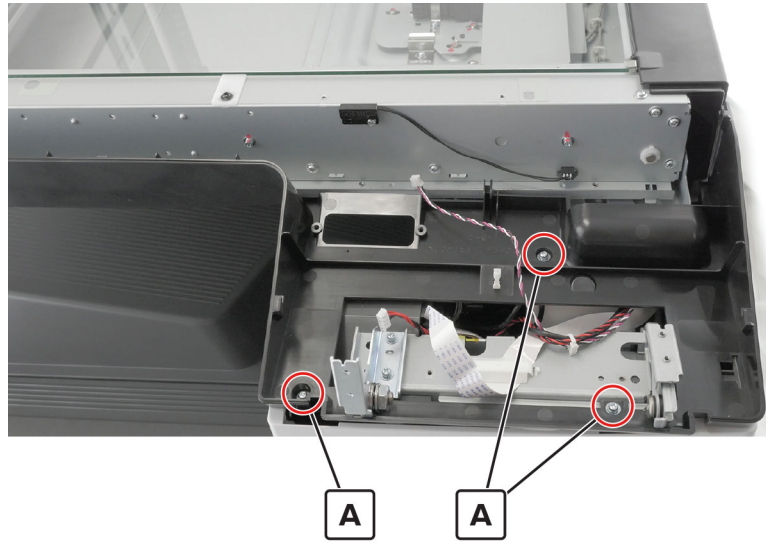


- 4 Remove the sensor.

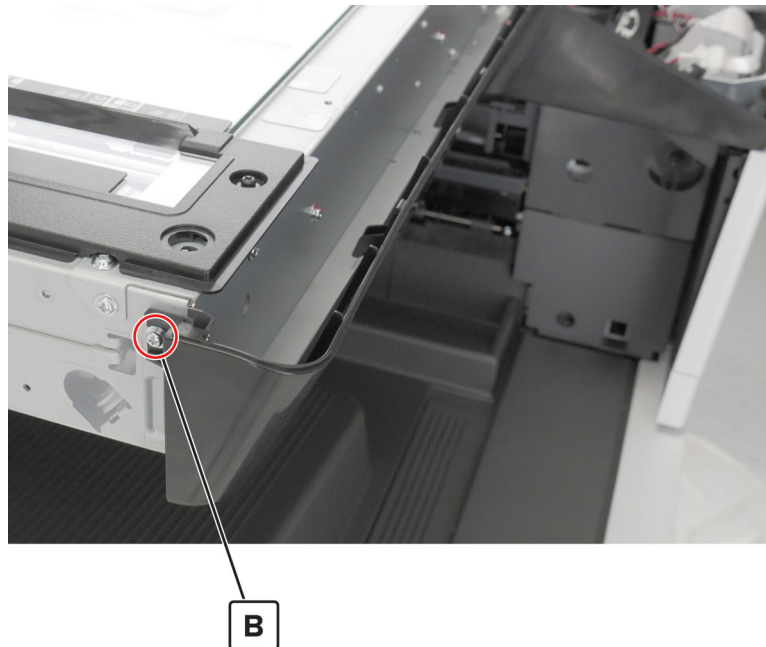
Scanner bottom front cover removal

- 1 Remove the scanner left cover. See [“Scanner left cover removal” on page 839](#).
- 2 Remove the scanner right cover. See [“Scanner right cover removal” on page 840](#).
- 3 Remove the control panel support base. See [“Control panel support base removal” on page 546](#).
- 4 Remove the scanner front cover removal. See [“Scanner front cover removal” on page 841](#).
- 5 Remove the control panel (10.1 inch) bezel. See [“Control panel \(10.1 inch\) bezel removal” on page 548](#).
- 6 Remove the control panel (10.1 inch) board. See [“Control panel \(10.1 inch\) board removal” on page 549](#).
- 7 Remove the control panel (10.1 inch) support cover. See [“Control panel \(10.1 inch\) support cover removal” on page 550](#).

8 Remove the three screws (A).

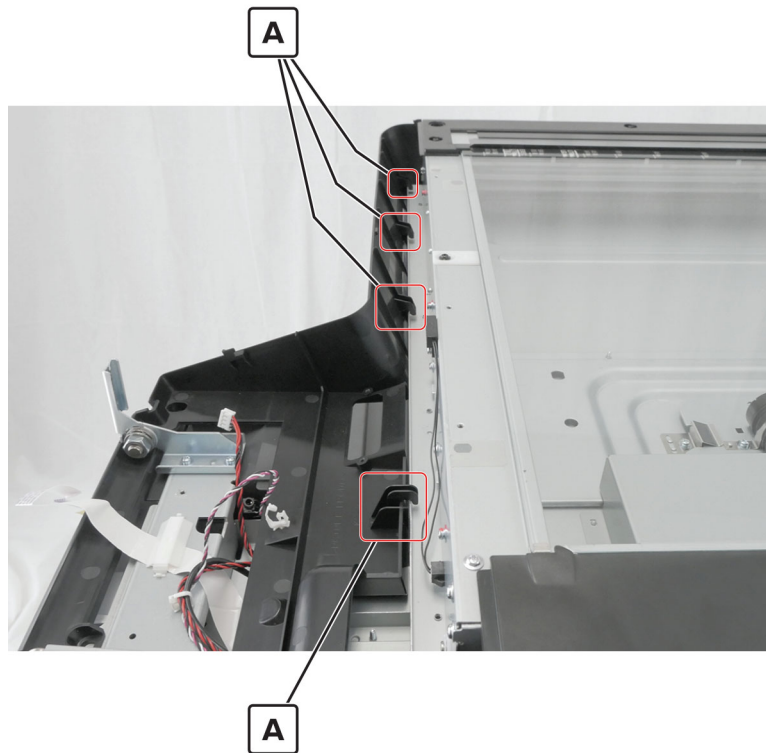


9 From the left side, remove the screw (B).



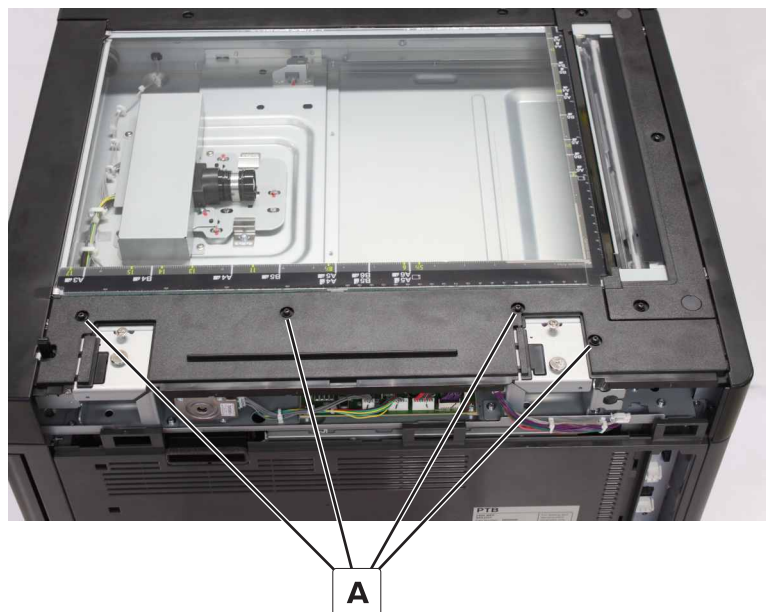
10 Remove the cover.

Installation note: Make sure that all the hooks (A) are evenly engaged to the frame.



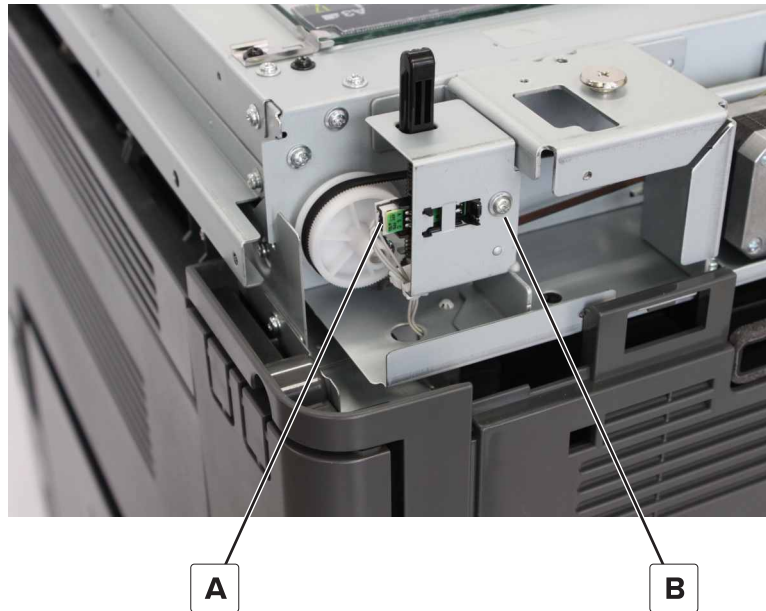
Scanner top cover removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 2 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 3 Remove the four screws (A), and then remove the scanner top cover.

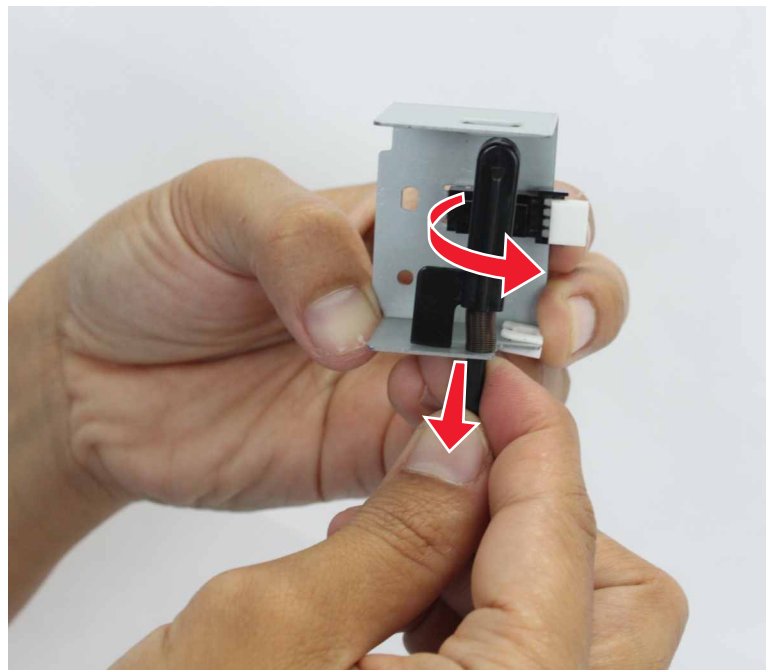


Sensor (scanner cover open) removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 3 Remove the scanner top cover. See [“Scanner top cover removal” on page 844](#).
- 4 Disconnect the cable (A), and then remove the screw (B).



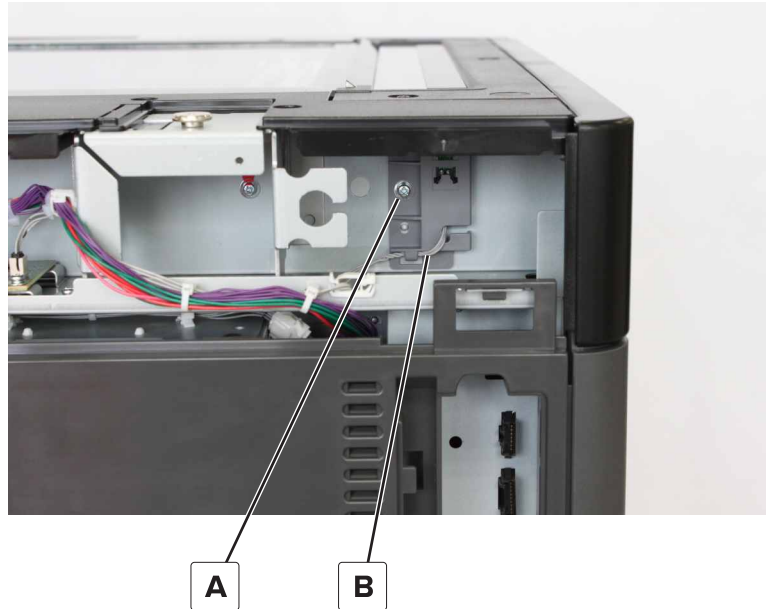
- 5 Remove the scanner cover open sensor actuator.



- 6 Remove the sensor.

Sensor (scanner lamp home) removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 3 Remove the screw (A), and then remove the cable (B) from the sensor housing.

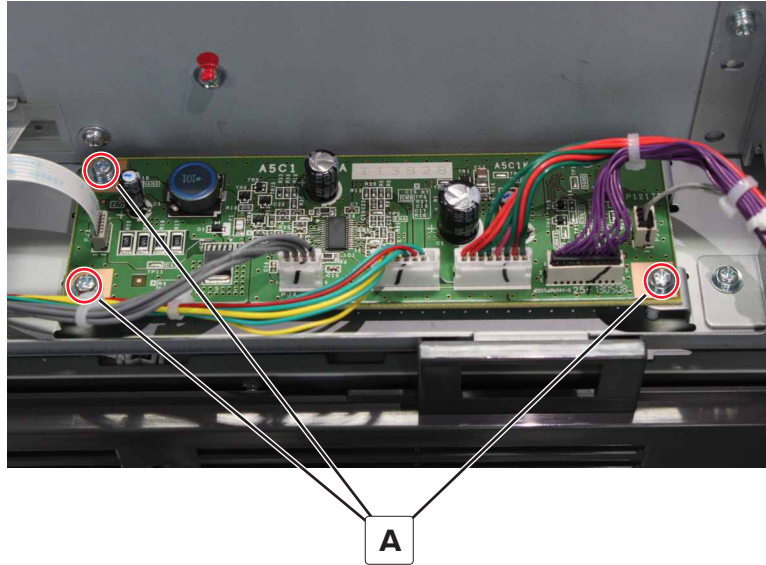


- 4 Disconnect the cable from the sensor.

Scanner controller board removal

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).

- 3 Disconnect the connectors, and then remove the three screws (A).



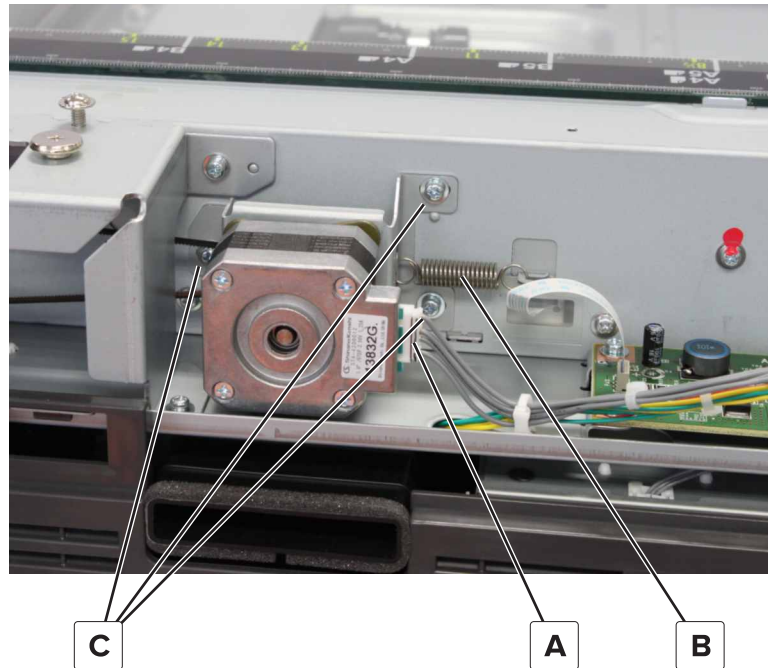
- 4 Remove the board.

Motor (scanner drive) removal

Note: Make sure to perform scanner carriage belt adjustment after replacing the motor (scanner drive). See [“Scanner carriage belt adjustment” on page 405](#).

- 1 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).

- 3** Disconnect the cable (A), remove the spring (B), and then remove the three screws (C).



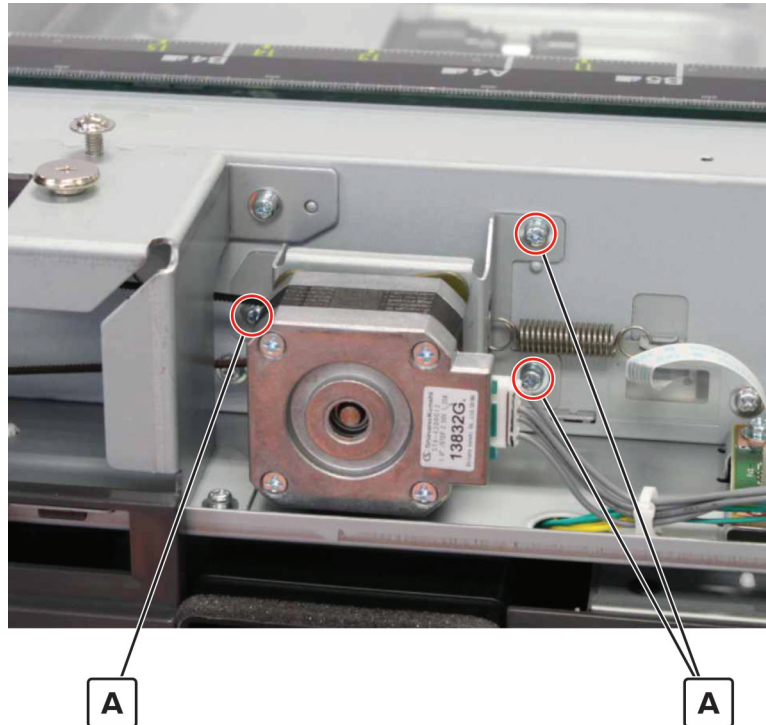
- 4** Remove the motor.

Scanner carriage belt removal

Note: Make sure to perform scanner carriage belt adjustment after replacing the belt. See [“Scanner carriage belt adjustment” on page 405](#).

- 1** Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 2** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).

- 3** Remove the three screws (A).

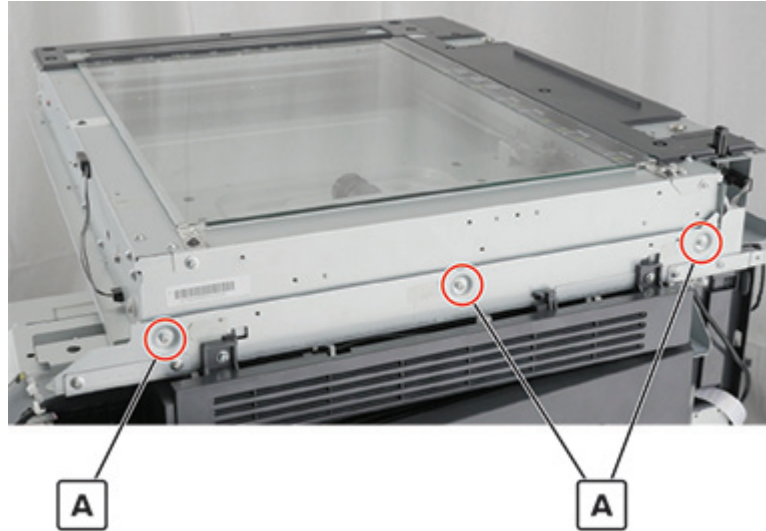


- 4** Release the belt from its motor and gear, and then remove it.

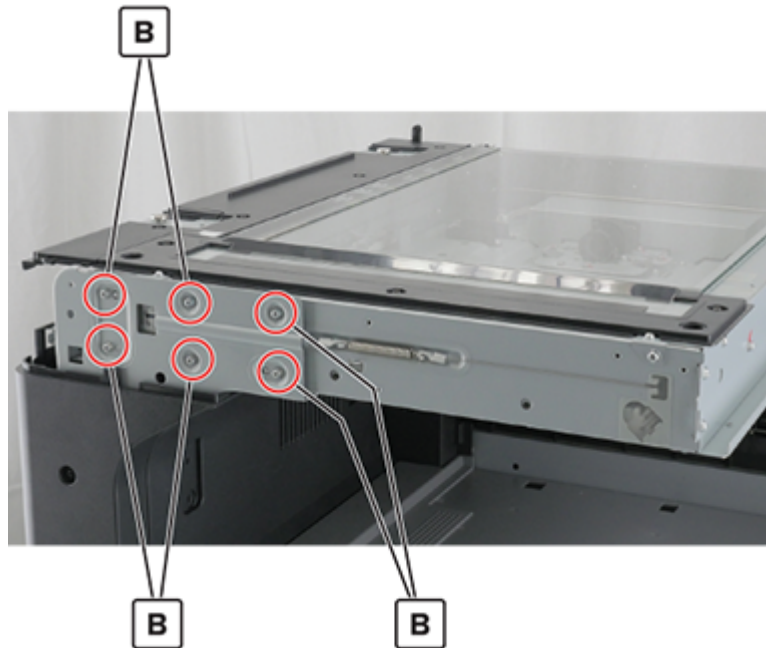
Flatbed scanner removal

- 1** Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 4** Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 5** Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)
- 6** Remove the control panel support base. See [“Control panel support base removal” on page 546.](#)
- 7** Remove the scanner front cover removal. See [“Scanner front cover removal” on page 841.](#)
- 8** Remove the control panel (10.1 inch) bezel. See [“Control panel \(10.1 inch\) bezel removal” on page 548.](#)
- 9** Remove the control panel (10.1 inch) board. See [“Control panel \(10.1 inch\) board removal” on page 549.](#)
- 10** Remove the control panel (10.1 inch) support cover. See [“Control panel \(10.1 inch\) support cover removal” on page 550.](#)
- 11** Remove the scanner bottom front cover. See [“Scanner bottom front cover removal” on page 842.](#)
- 12** Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)

- 13** Remove the three screws (A).



- 14** From the left side, remove the six screws (B).

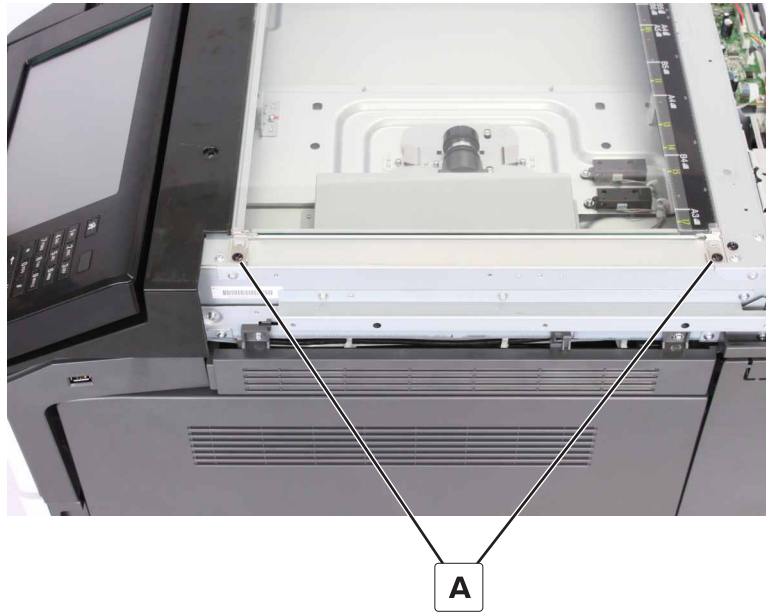


- 15** Remove the flatbed scanner.

Scanner glass removal

- 1** Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3** Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 4** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 5** Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)

- 6 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 7 Remove the scanner top cover. See [“Scanner top cover removal” on page 844](#).
- 8 Remove the two screws (A), and then remove the retainers.

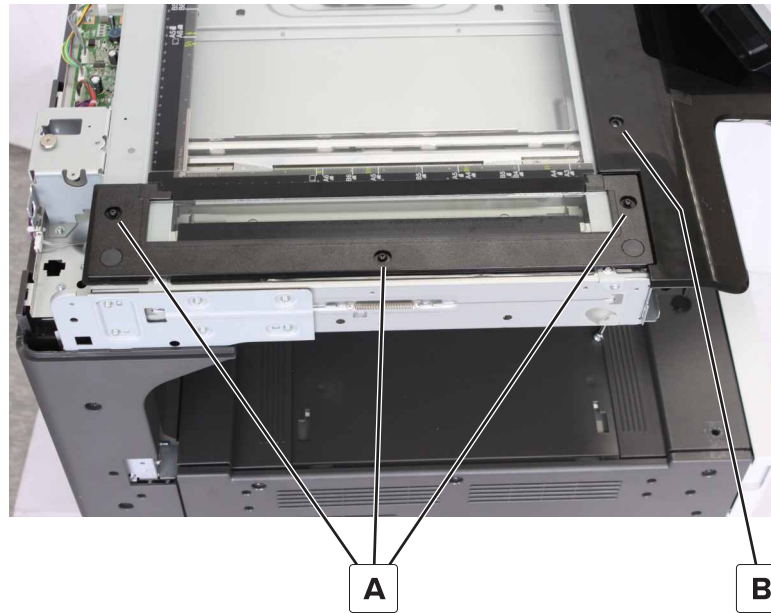


- 9 Gently remove the scanner glass.

ADF duplex scan glass removal

- 1 Remove the scanner left cover. See [“Scanner left cover removal” on page 839](#).
- 2 Remove the scanner bottom front cover. See [“Scanner bottom front cover removal” on page 842](#).
- 3 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 4 Remove the scanner top cover. See [“Scanner top cover removal” on page 844](#).

- 5 Remove the three screws (A), and then remove the screw (B).



- 6 Slightly raise the scanner front cover, and then remove the ADF duplex scan glass.

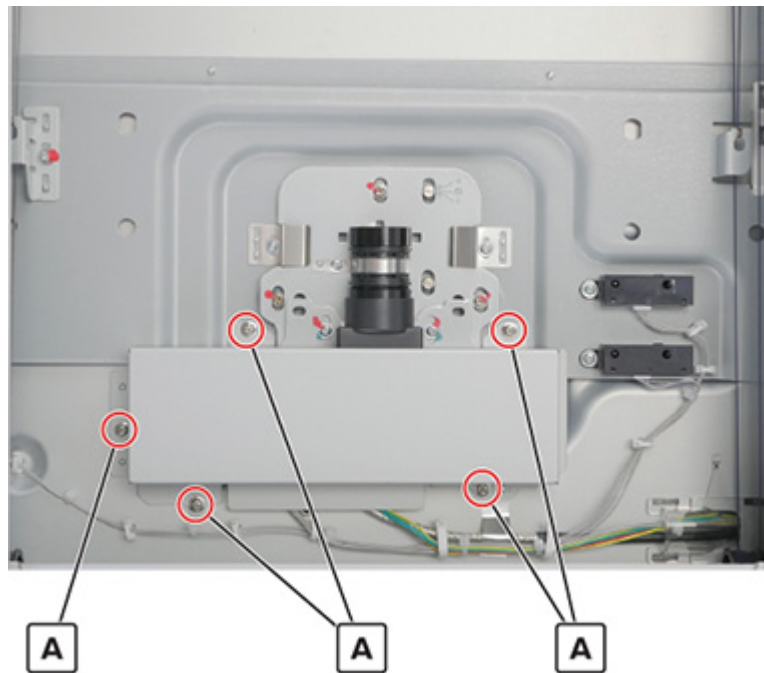
Installation note: Make sure that the ADF duplex scan glass and scanner glass are properly aligned.



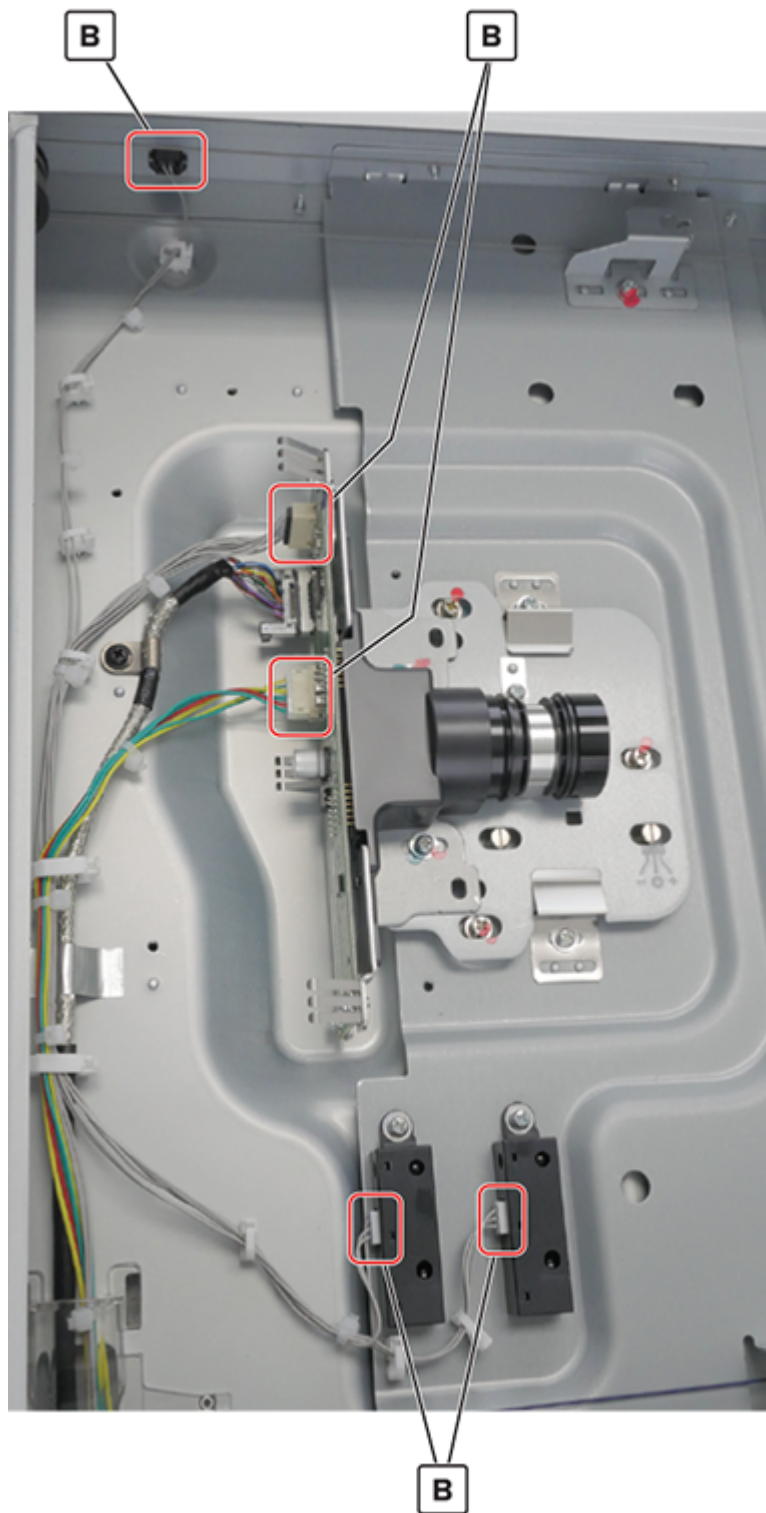
Scanner sensor cable removal

- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 4 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 5 Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)
- 6 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)

- 7 Remove the scanner top cover. See [“Scanner top cover removal” on page 844](#).
- 8 Remove the scanner glass. See [“Scanner glass removal” on page 850](#).
- 9 Remove the five screws (A), and then remove the bracket.

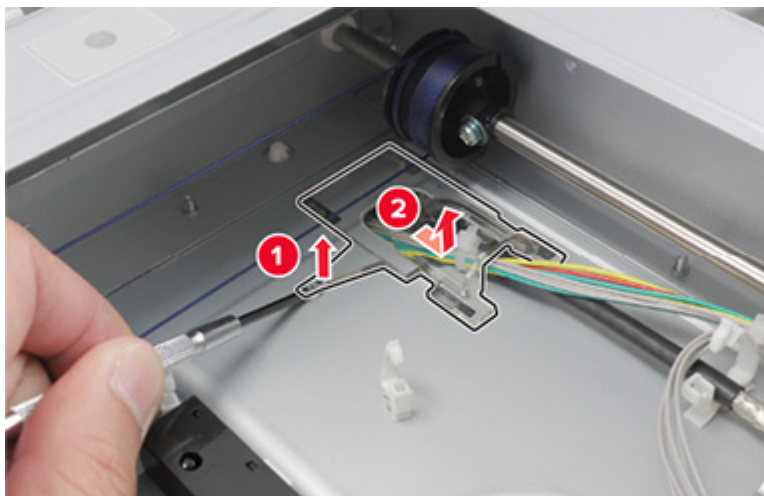


10 Disconnect the five cables (B).

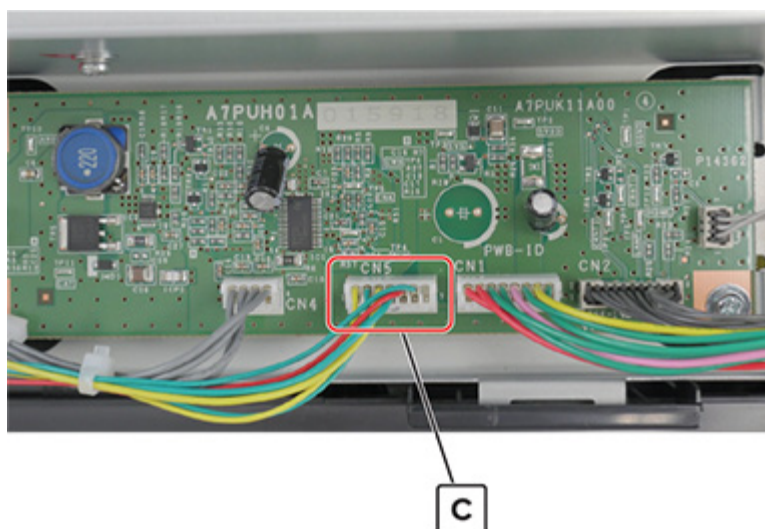


Parts removal

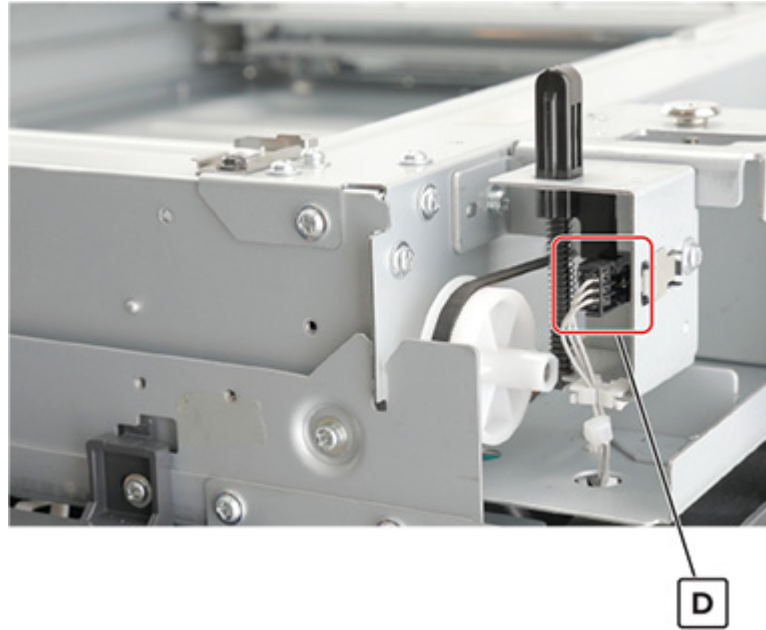
- 11** Release the tab, and then remove the cable guide.



- 12** Disconnect the cable (C) from the scanner controller board.



- 13** Disconnect the cable (D).

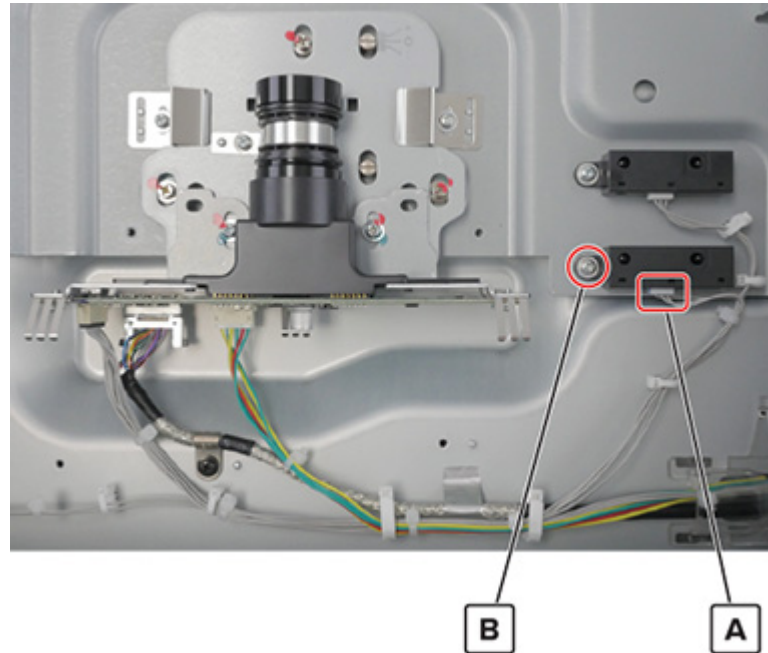


- 14** Remove the cable.

Sensor (scanner paper length 1) removal

- 1** Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3** Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 4** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 5** Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)
- 6** Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 7** Remove the scanner top cover. See [“Scanner top cover removal” on page 844.](#)
- 8** Remove the scanner glass. See [“Scanner glass removal” on page 850.](#)

- 9 Disconnect the cable (A), and then remove the screw (B).

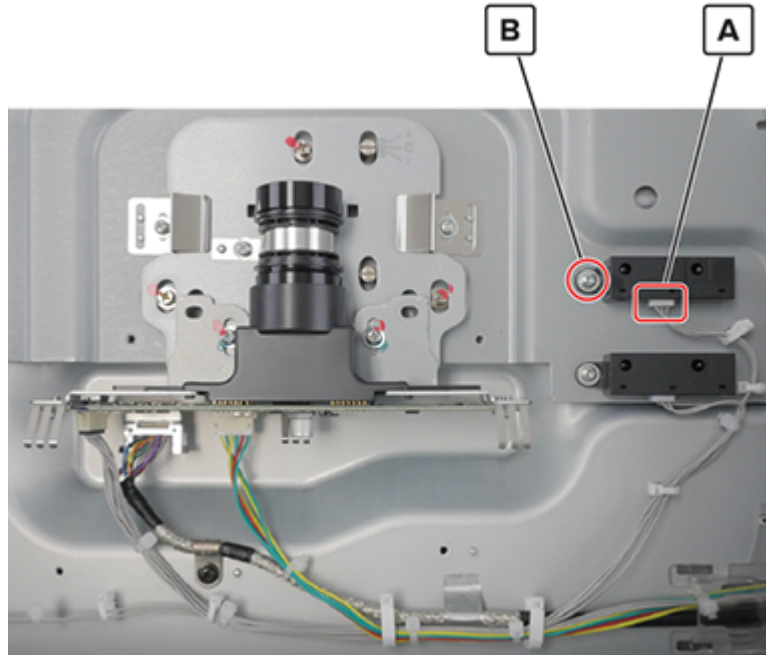


- 10 Remove the sensor.

Sensor (scanner paper length 2) removal

- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 4 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 5 Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)
- 6 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 7 Remove the scanner top cover. See [“Scanner top cover removal” on page 844.](#)
- 8 Remove the scanner glass. See [“Scanner glass removal” on page 850.](#)

- 9 Disconnect the cable (A), and then remove the screw (B).

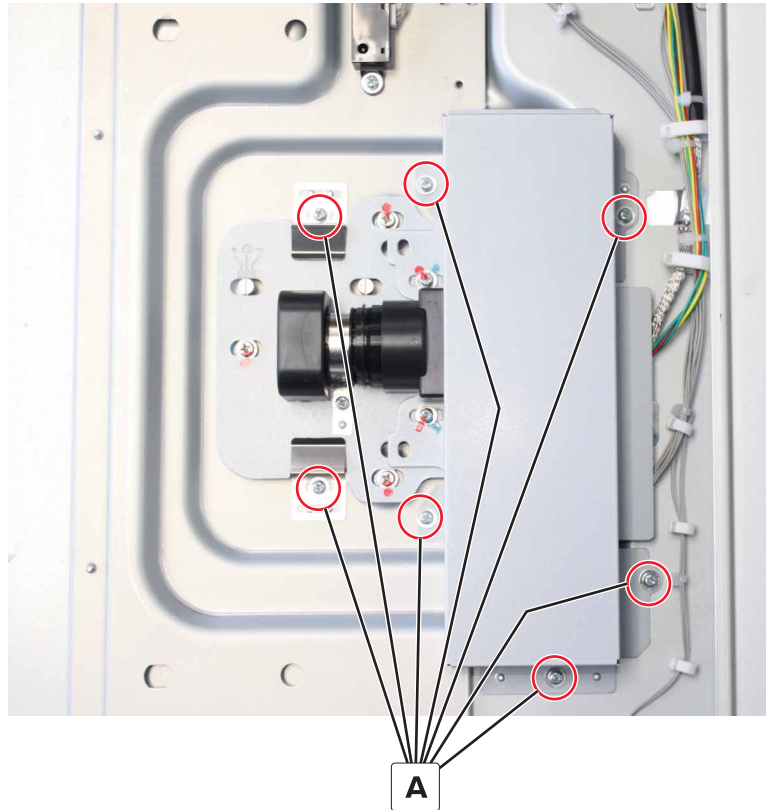


- 10 Remove the sensor.

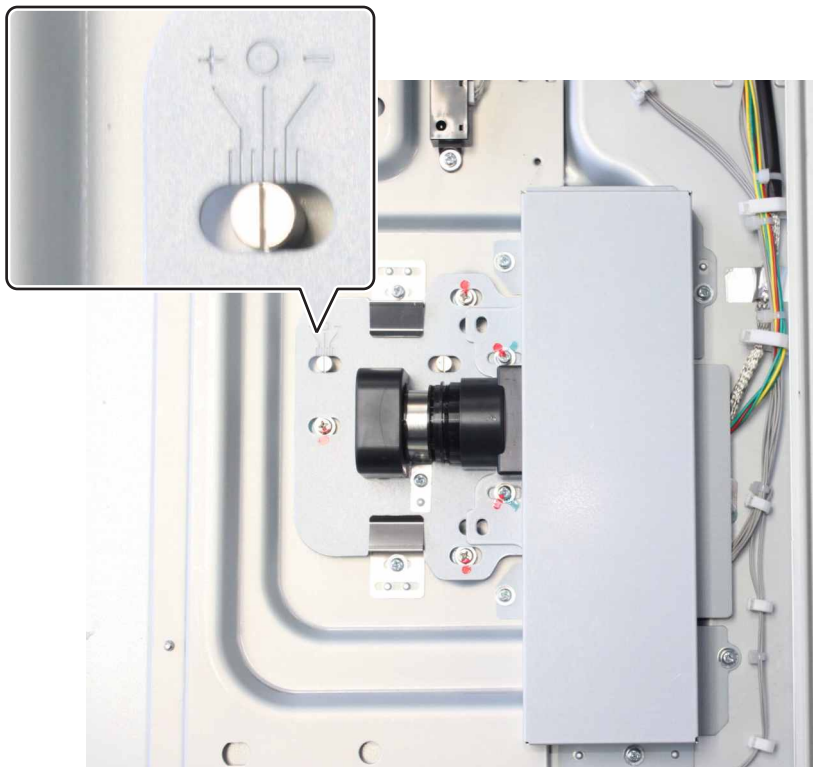
Scanner CCD lens assembly removal

- 1 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 2 Remove the scanner top cover. See [“Scanner top cover removal” on page 844](#).
- 3 Remove the scanner right cover. See [“Scanner right cover removal” on page 840](#).
- 4 Remove the scanner glass. See [“Scanner glass removal” on page 850](#).

5 Remove the seven screws (A).

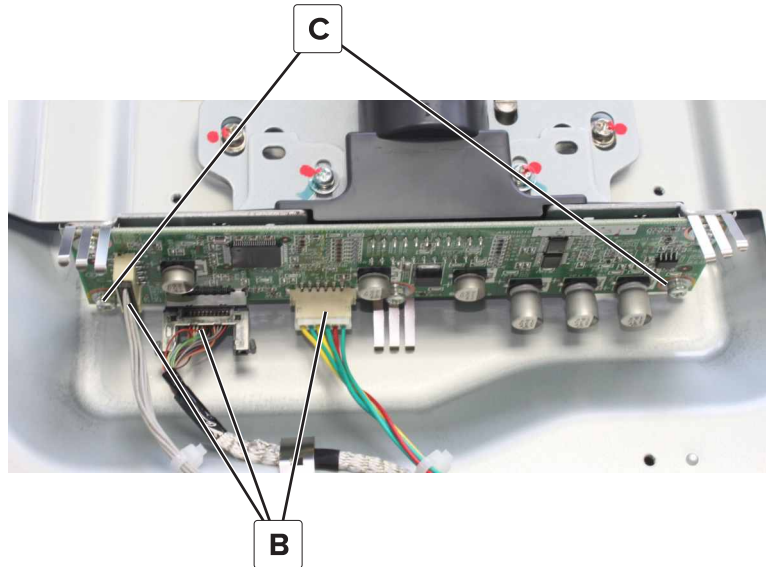


Note: Pay attention to the alignment setting.

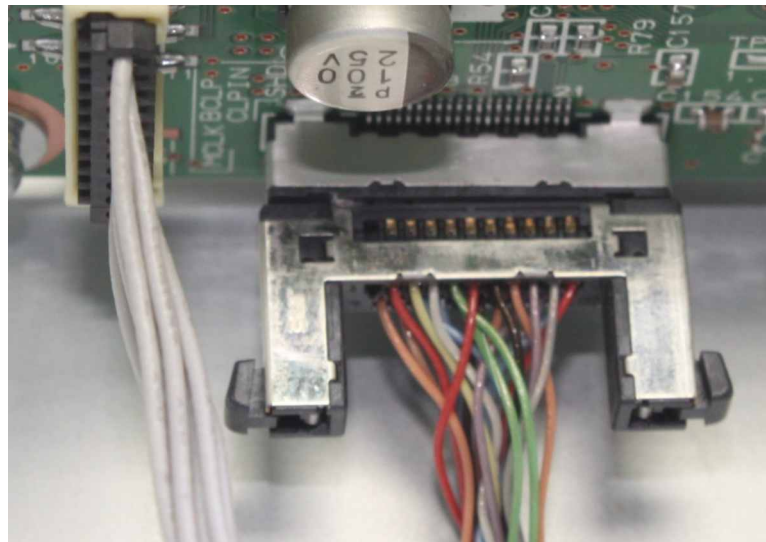


Parts removal

- 6 Disconnect the three cables (B), and then remove the two screws (C).



Installation note: Make sure to reinstall the scanner CCD cable with its metal component facing up.

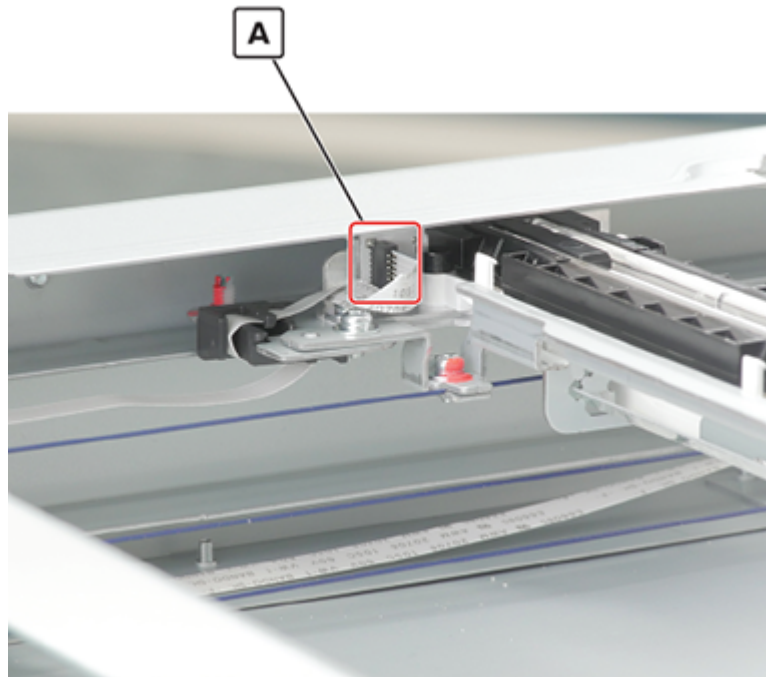


- 7 Remove the scanner CCD lens assembly.

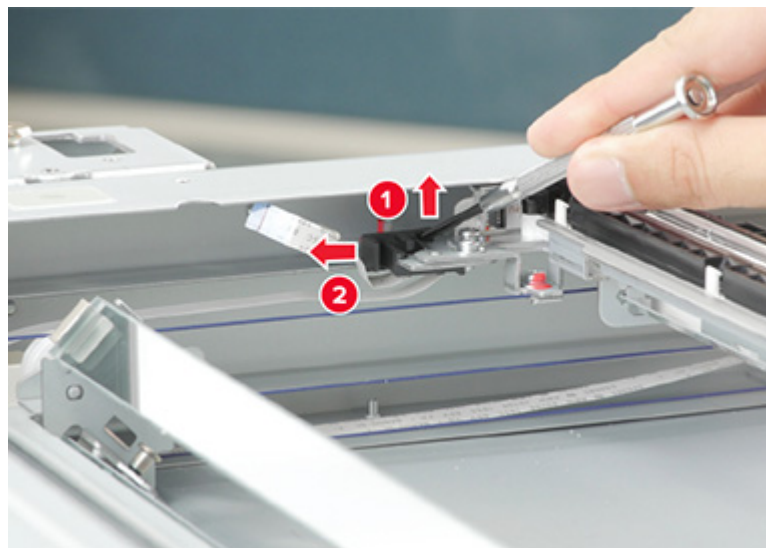
Scanner lamp cable removal

- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 4 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 5 Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)
- 6 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)

- 7 Remove the scanner top cover. See [“Scanner top cover removal” on page 844](#).
- 8 Remove the scanner glass. See [“Scanner glass removal” on page 850](#).
- 9 Disconnect the cable (A).



- 10 Pry the guide to release, and then pull it off the frame.

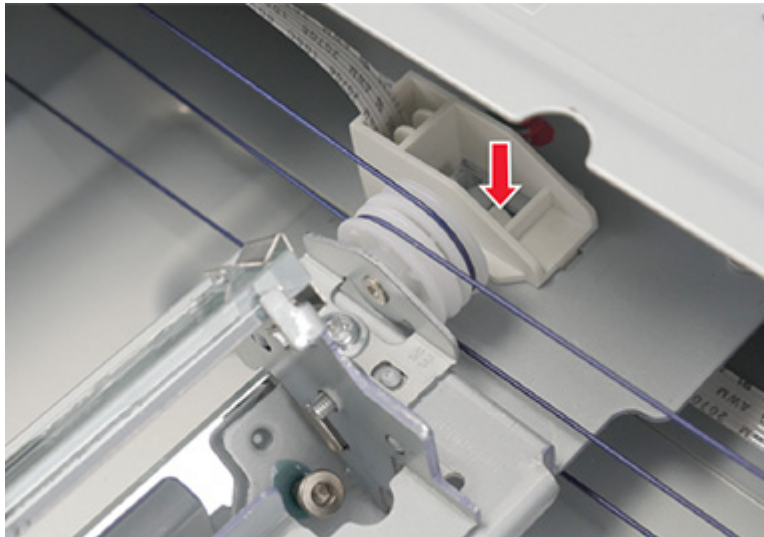


- 11 Release the cable from its guide.

Installation note: Take note of the route of the cable on the guide.



- 12** Release the latch, and then pull the cable guide off the frame.



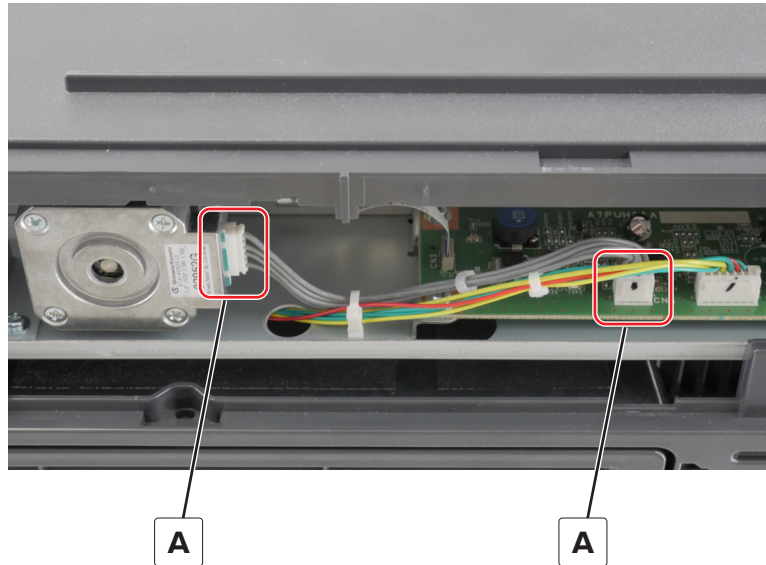
- 13** Remove the cable.

Installation note: Check the scanner lamp for proper movement. Make sure that the scanner lamp cable is not too tight or too loose.

Scanner drive motor cable removal

- 1** Remove the filter cover. See [“Air deflector hood removal” on page 602](#).
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3** Remove the scanner left cover. See [“Scanner left cover removal” on page 839](#).
- 4** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).

- 5 Unplug the two connectors (A).

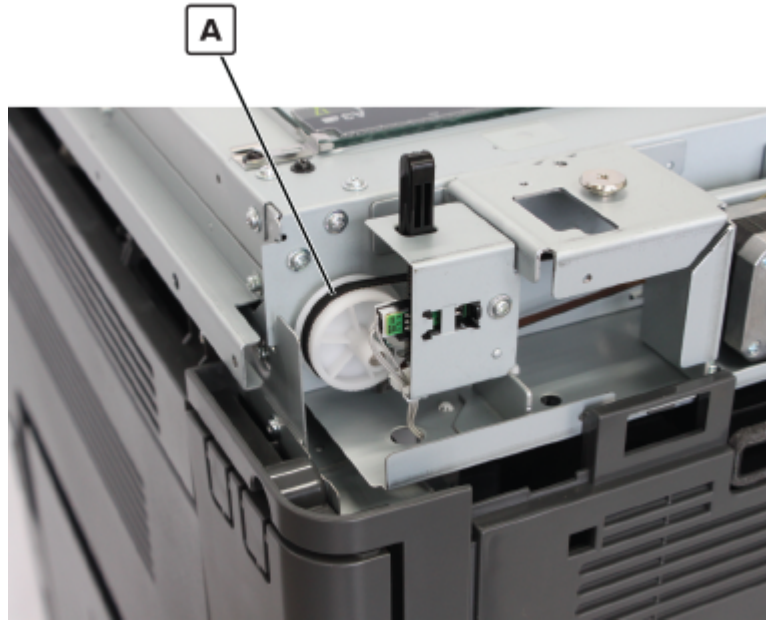


- 6 Remove the cable.

Scanner carriage gear removal

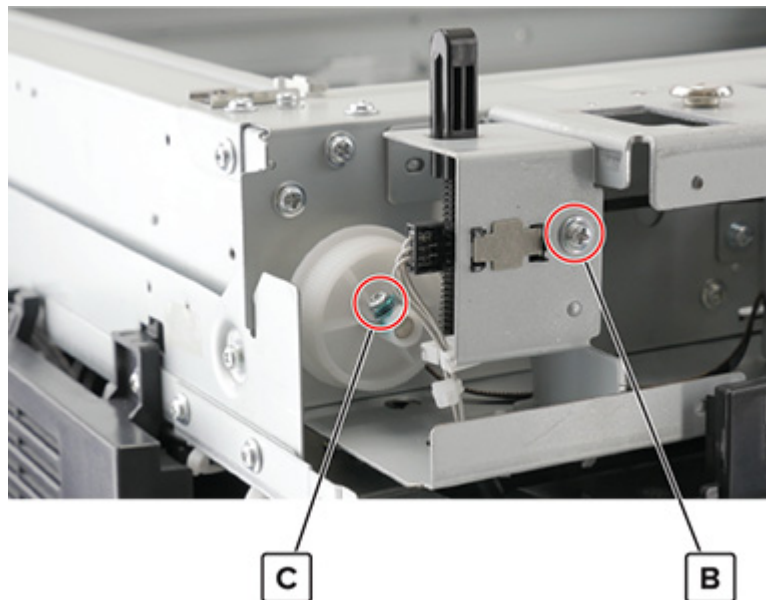
- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 4 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 5 Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)
- 6 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 7 Remove the scanner top cover. See [“Scanner top cover removal” on page 844.](#)

- 8 Release the belt (A) from the gear.



- 9 Remove the screw (B), and then pull the bracket.

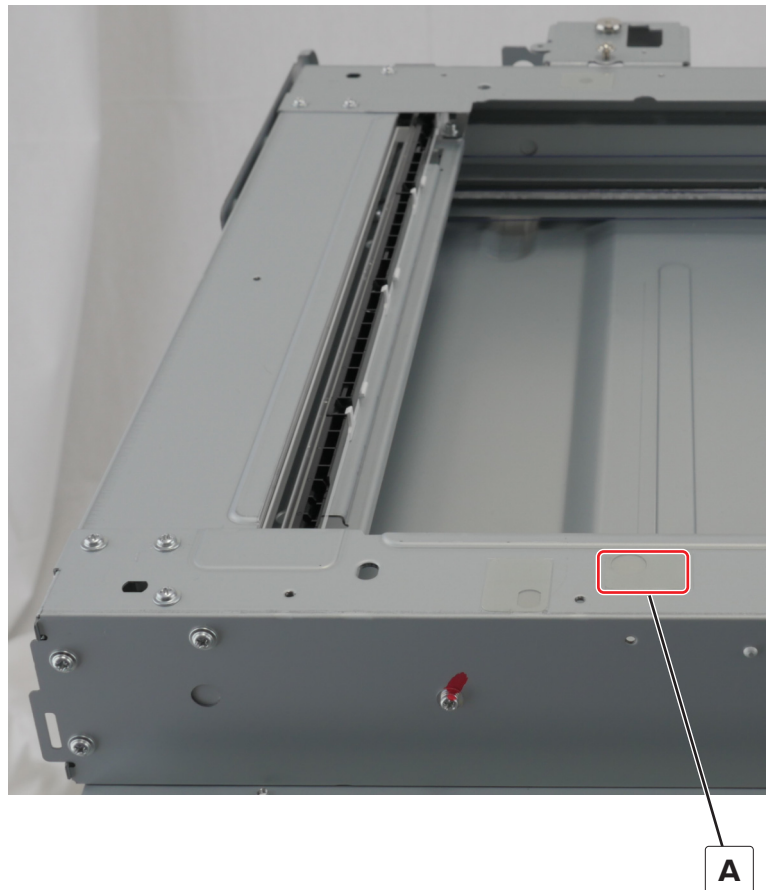
- 10 Remove the screw (C), and then remove the gear.



Scanner carriage removal

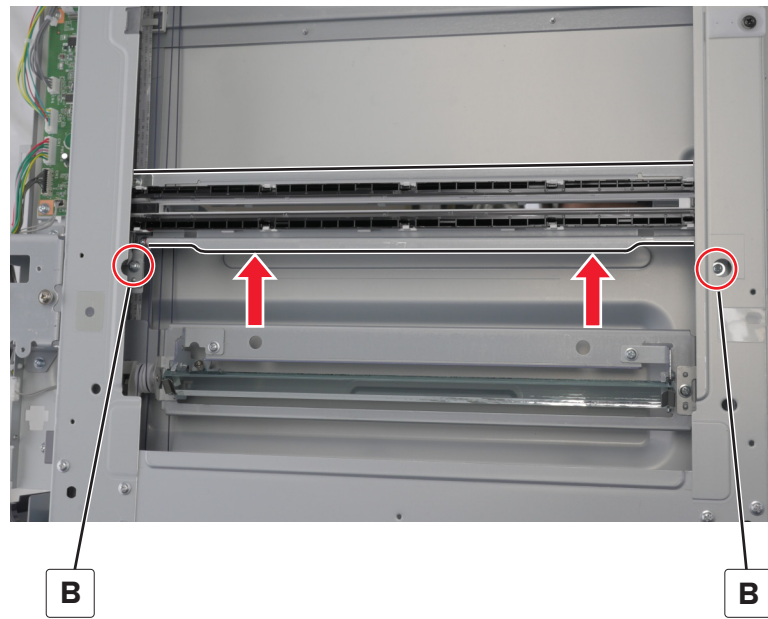
- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the scanner left cover. See [“Scanner left cover removal” on page 839](#).
- 4 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).

- 5 Remove the scanner right cover. See [“Scanner right cover removal” on page 840](#).
- 6 Remove the control panel support base. See [“Control panel support base removal” on page 546](#).
- 7 Remove the flatbed top front cover removal. See [“Scanner front cover removal” on page 841](#).
- 8 Remove the control panel (10.1 inch) bezel. See [“Control panel \(10.1 inch\) bezel removal” on page 548](#).
- 9 Remove the control panel (10.1 inch) board. See [“Control panel \(10.1 inch\) board removal” on page 549](#).
- 10 Remove the control panel (10.1 inch) support cover. See [“Control panel \(10.1 inch\) support cover removal” on page 550](#).
- 11 Remove the scanner bottom front cover. See [“Scanner bottom front cover removal” on page 842](#).
- 12 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 13 Remove the scanner top cover. See [“Scanner top cover removal” on page 844](#).
- 14 Remove the flatbed scanner. See [“Flatbed scanner removal” on page 849](#).
- 15 Remove the scanner glass. See [“Scanner glass removal” on page 850](#).
- 16 Peel off the cover (A).

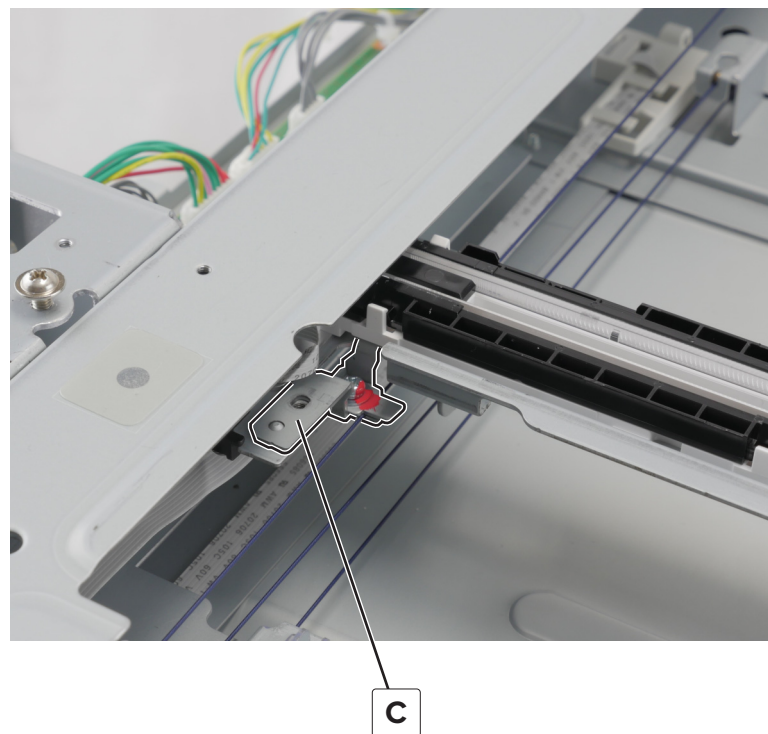


- 17 Move the scanner carriage to align the screws (B) with the access holes, and then remove the screws.

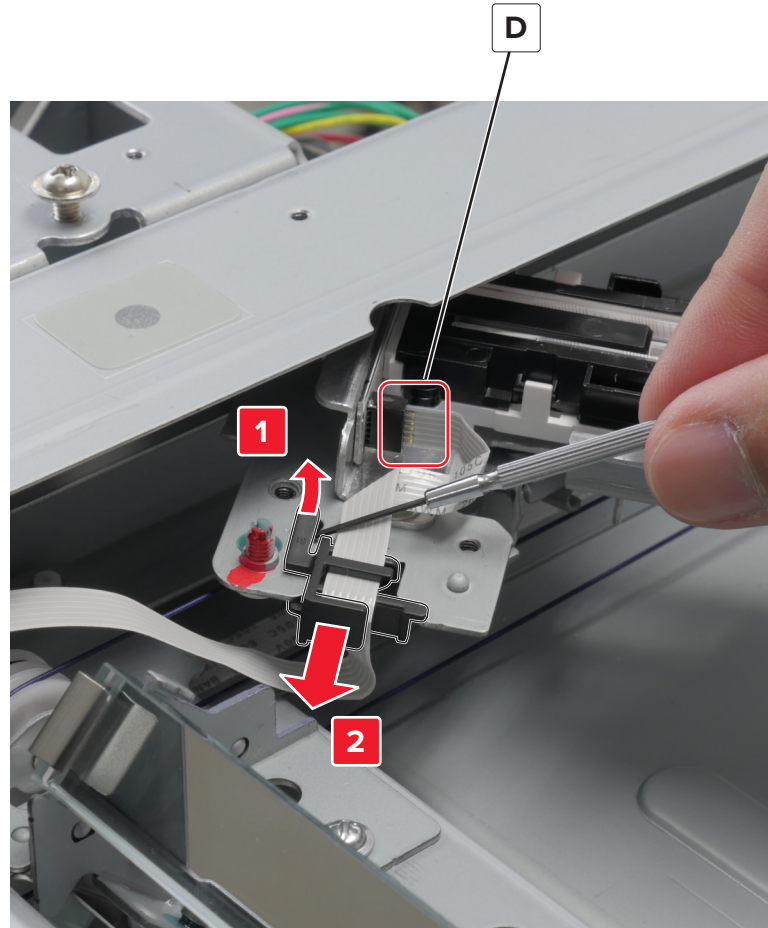
Warning—Potential Damage: Do not remove or loosen the screws with red marks.



18 Remove the bracket (C) on each end of the scanner carriage.



- 19** Disconnect the cable (D), release the latch, and then separate the cable guide from the scanner carriage.

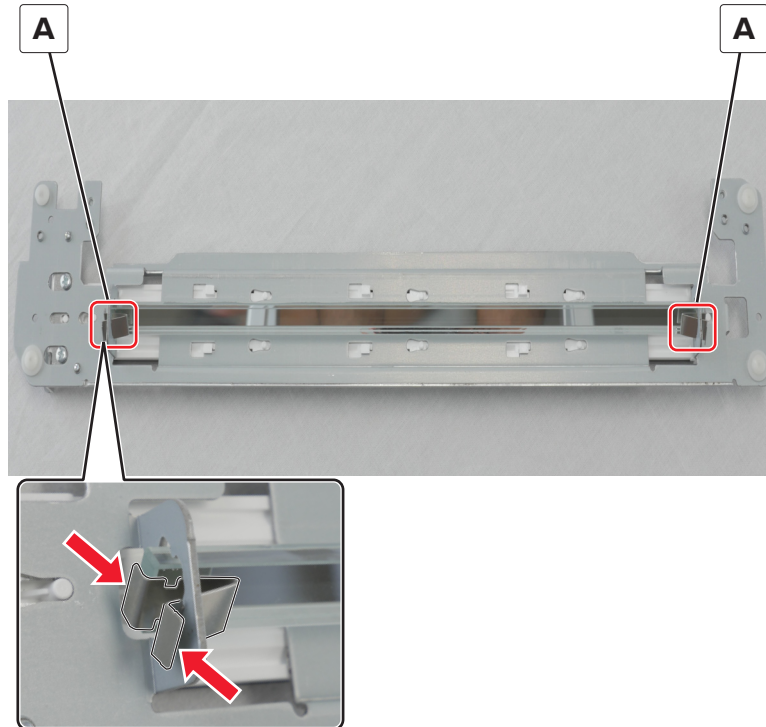


- 20** Remove the scanner carriage.

Scanner mirror 1 removal

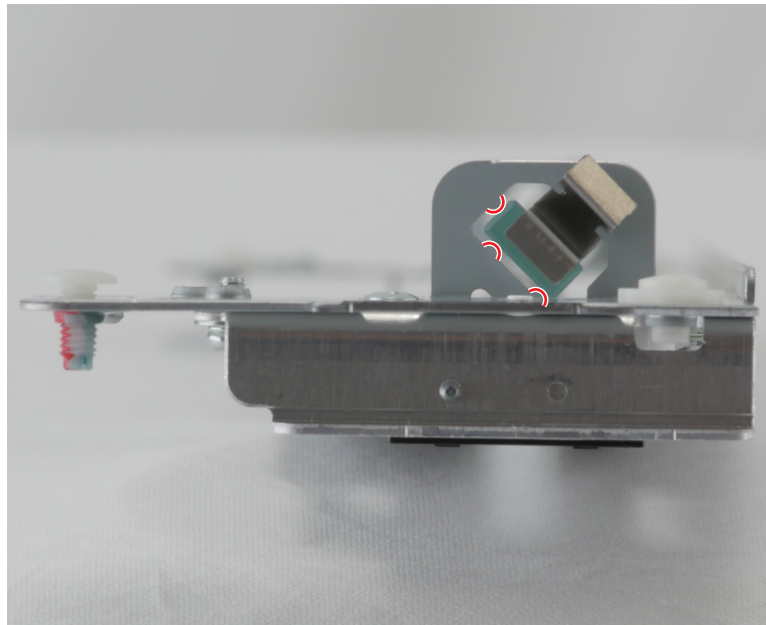
- 1** Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3** Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 4** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 5** Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)
- 6** Remove the control panel support base. See [“Control panel support base removal” on page 546.](#)
- 7** Remove the flatbed top front cover removal. See [“Scanner front cover removal” on page 841.](#)
- 8** Remove the control panel (10.1 inch) bezel. See [“Control panel \(10.1 inch\) bezel removal” on page 548.](#)
- 9** Remove the control panel (10.1 inch) board. See [“Control panel \(10.1 inch\) board removal” on page 549.](#)
- 10** Remove the control panel (10.1 inch) support cover. See [“Control panel \(10.1 inch\) support cover removal” on page 550.](#)
- 11** Remove the scanner bottom front cover. See [“Scanner bottom front cover removal” on page 842.](#)

- 12** Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 13** Remove the scanner top cover. See [“Scanner top cover removal” on page 844](#).
- 14** Remove the flatbed scanner. See [“Flatbed scanner removal” on page 849](#).
- 15** Remove the scanner glass. See [“Scanner glass removal” on page 850](#).
- 16** Remove the scanner carriage. See [“Scanner carriage removal” on page 864](#).
- 17** Release, and then remove the retainers (A) under the scanner carriage.



- 18** Remove the mirror.

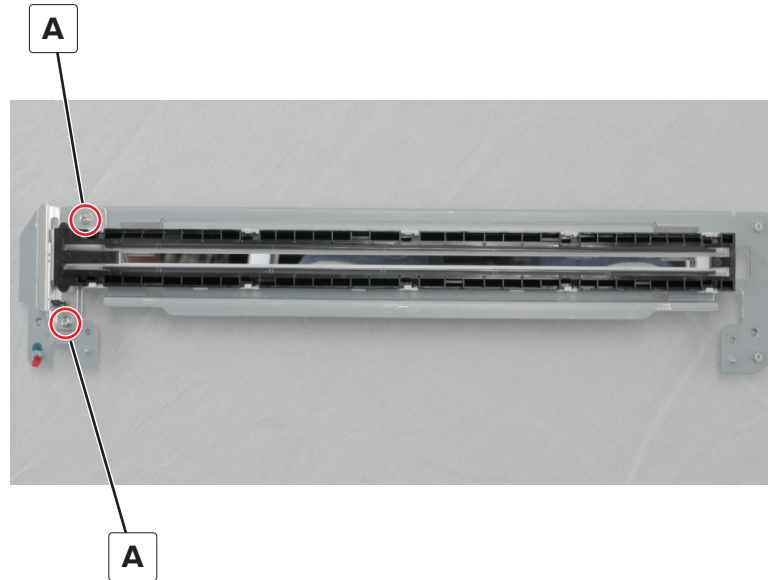
Installation note: Position the mirror as shown so that its edges are touching the bracket.



Scanner lamp removal

- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3 Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 4 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 5 Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)
- 6 Remove the control panel support base. See [“Control panel support base removal” on page 546.](#)
- 7 Remove the flatbed top front cover removal. See [“Scanner front cover removal” on page 841.](#)
- 8 Remove the control panel (10.1 inch) bezel. See [“Control panel \(10.1 inch\) bezel removal” on page 548.](#)
- 9 Remove the control panel (10.1 inch) board. See [“Control panel \(10.1 inch\) board removal” on page 549.](#)
- 10 Remove the control panel (10.1 inch) support cover. See [“Control panel \(10.1 inch\) support cover removal” on page 550.](#)
- 11 Remove the scanner bottom front cover. See [“Scanner bottom front cover removal” on page 842.](#)
- 12 Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 13 Remove the scanner top cover. See [“Scanner top cover removal” on page 844.](#)
- 14 Remove the flatbed scanner. See [“Flatbed scanner removal” on page 849.](#)
- 15 Remove the scanner glass. See [“Scanner glass removal” on page 850.](#)
- 16 Remove the scanner carriage. See [“Scanner carriage removal” on page 864.](#)

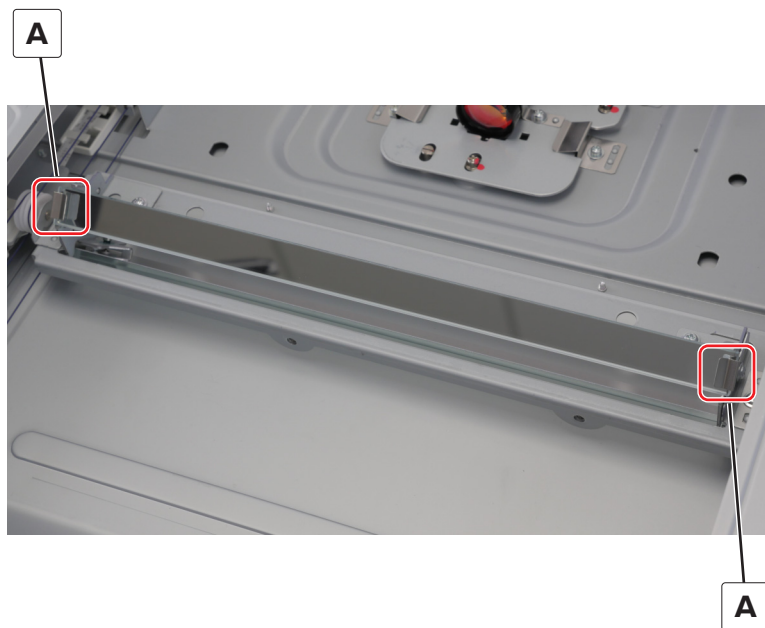
- 17** Remove the two screws (A), and then remove the lamp.



Scanner mirror 2 removal

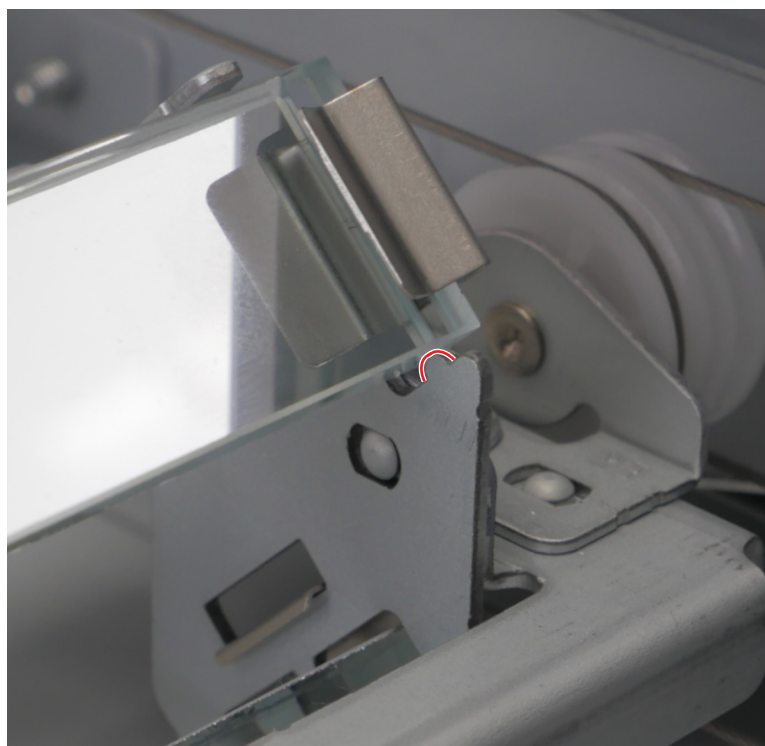
- 1** Remove the filter cover. See [“Air deflector hood removal” on page 602.](#)
- 2** Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604.](#)
- 3** Remove the scanner left cover. See [“Scanner left cover removal” on page 839.](#)
- 4** Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839.](#)
- 5** Remove the scanner right cover. See [“Scanner right cover removal” on page 840.](#)
- 6** Remove the ADF assembly. See [“ADF assembly removal” on page 747.](#)
- 7** Remove the scanner top cover. See [“Scanner top cover removal” on page 844.](#)
- 8** Remove the scanner glass. See [“Scanner glass removal” on page 850.](#)

9 Remove the retainers (A).



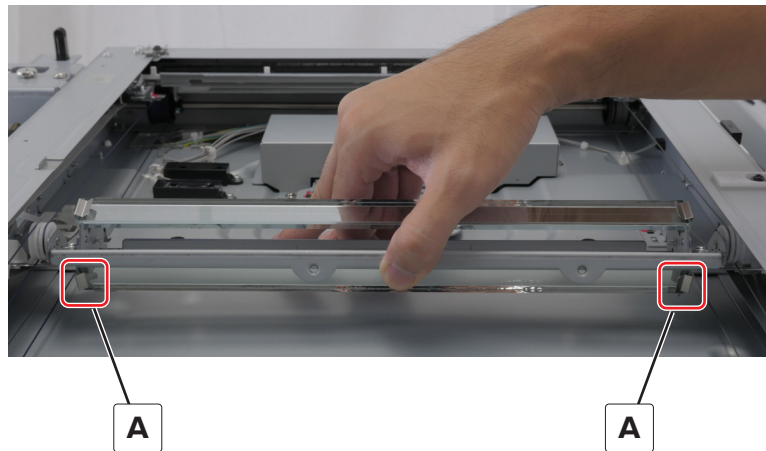
10 Remove the mirror.

Installation note: Position the mirror as shown so that its bottom edge is touching the bracket.



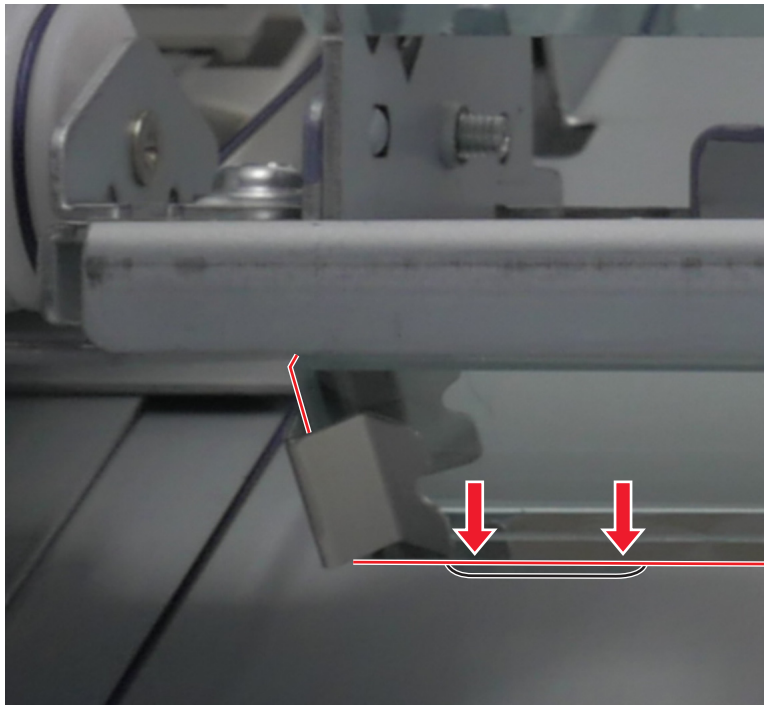
Scanner mirror 3 removal

- 1 Remove the filter cover. See [“Air deflector hood removal” on page 602](#).
- 2 Remove the scanner interface cable cover. See [“Scanner interface cable cover removal” on page 604](#).
- 3 Remove the scanner left cover. See [“Scanner left cover removal” on page 839](#).
- 4 Remove the scanner rear cover. See [“Scanner rear cover removal” on page 839](#).
- 5 Remove the scanner right cover. See [“Scanner right cover removal” on page 840](#).
- 6 Remove the ADF assembly. See [“ADF assembly removal” on page 747](#).
- 7 Remove the scanner top cover. See [“Scanner top cover removal” on page 844](#).
- 8 Remove the scanner glass. See [“Scanner glass removal” on page 850](#).
- 9 Under the bracket, remove the retainers (A).



- 10 Remove the mirror.

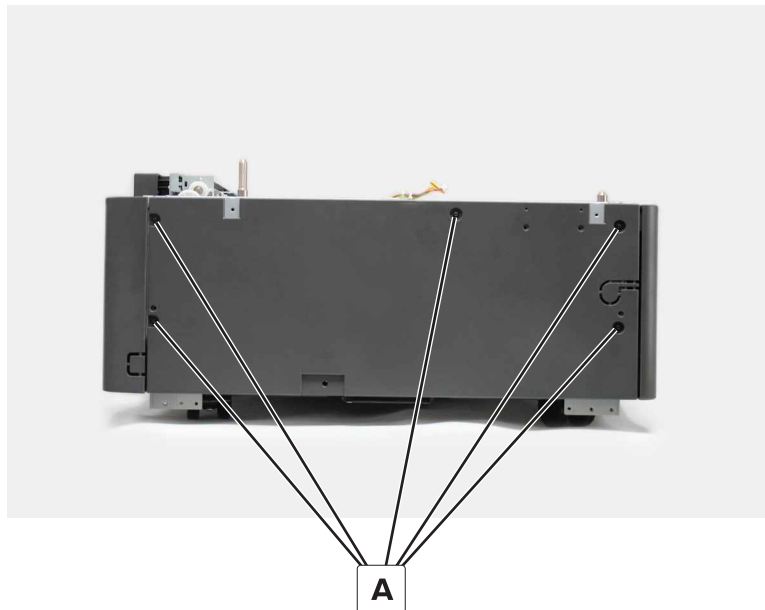
Installation note: Position the mirror as shown so that its bottom edge is touching the bracket.



2500-sheet tray removals

2500-sheet tray rear cover removal

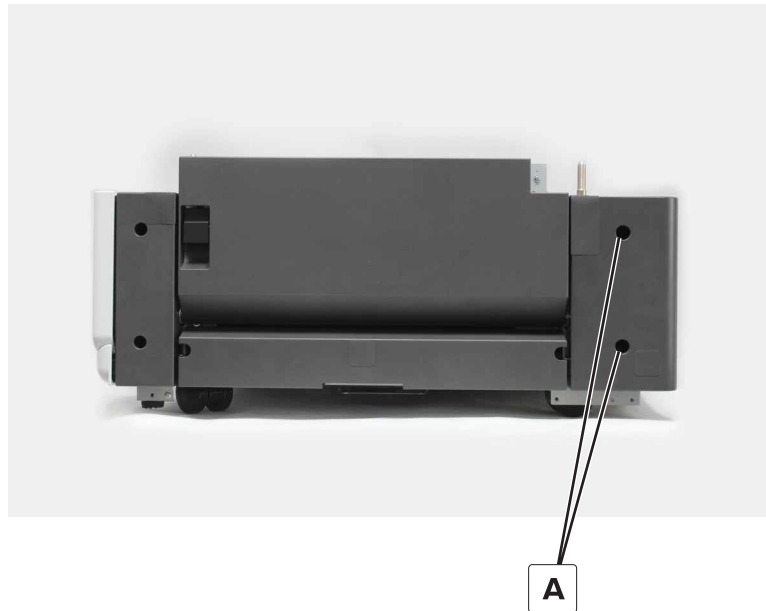
- 1 Remove the five screws (A).



- 2 Remove the cover.

2500-sheet tray rear right cover removal

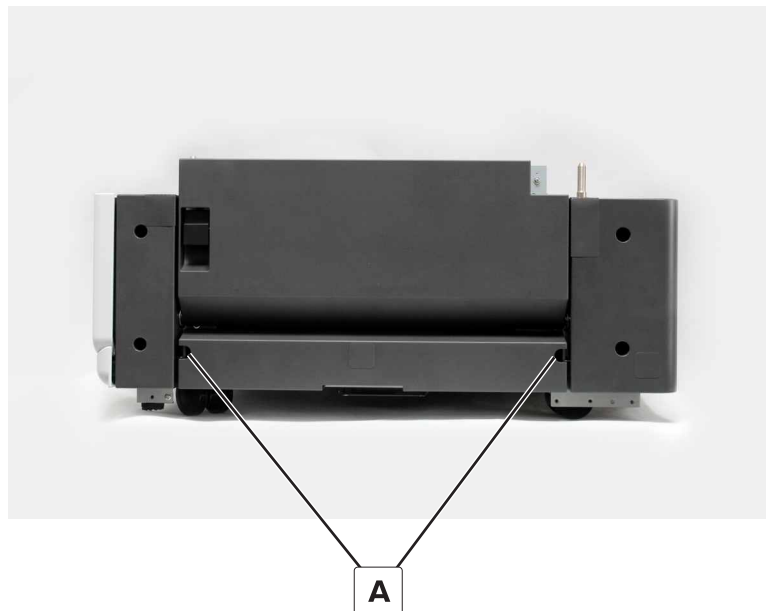
- 1 Remove the two screws (A).



- 2 Remove the cover.

2500-sheet tray lower right cover removal

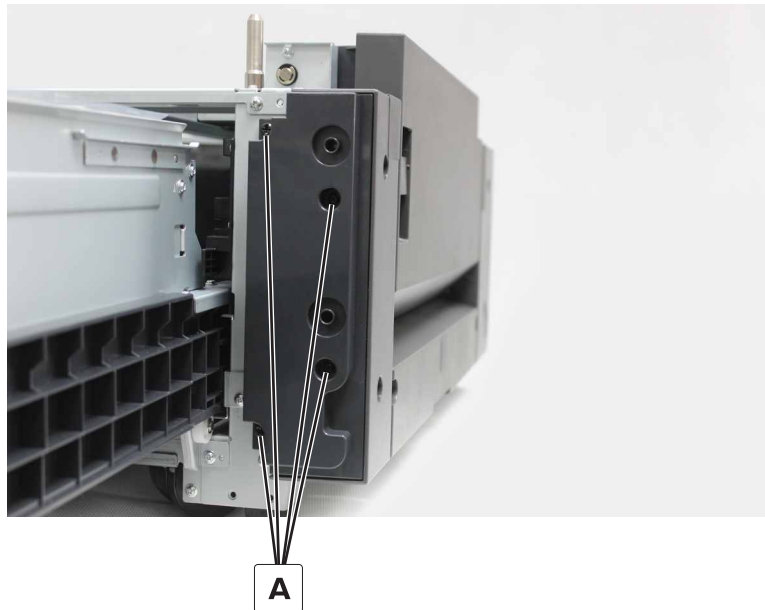
- 1 Remove the two screws (A).



- 2 Remove the cover.

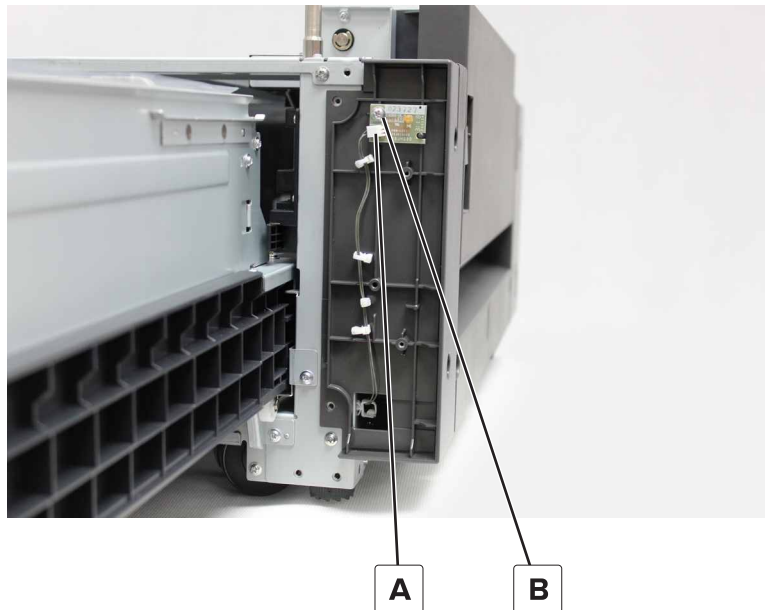
2500-sheet tray LED cover removal

- 1 Open the tray.
- 2 Remove the four screws (A), and then remove the cover.



2500-sheet tray empty LED removal

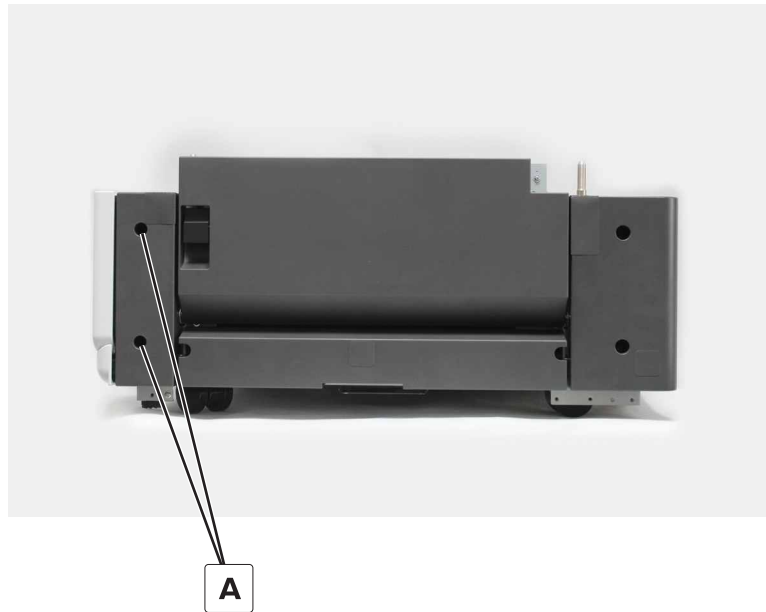
- 1 Remove the 2500-sheet tray LED cover. See [“2500-sheet tray LED cover removal” on page 875](#).
- 2 Disconnect the cable (A), and then remove the screw (B).



- 3 Remove the LED.

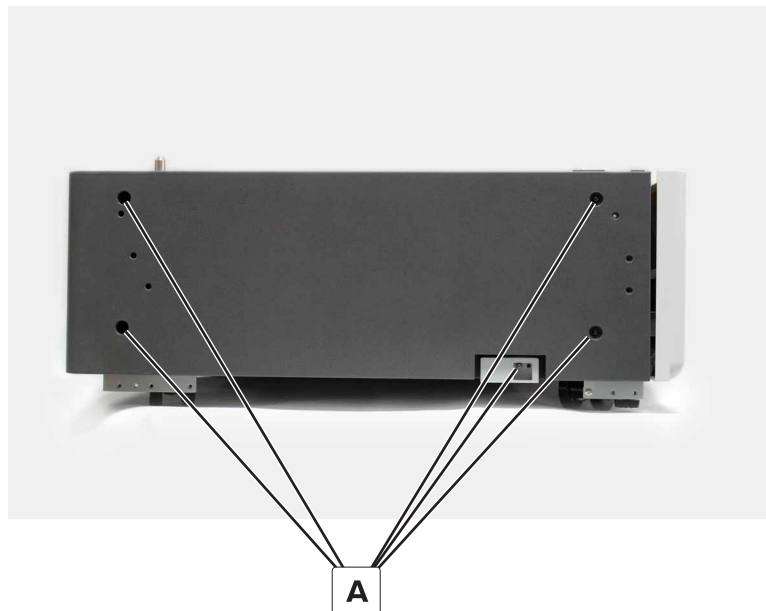
2500-sheet tray front right cover removal

- 1 Remove the 2500-sheet tray LED cover. See [“2500-sheet tray LED cover removal” on page 875](#).
- 2 Remove the two screws (A), and then remove the cover.



2500-sheet tray left cover removal

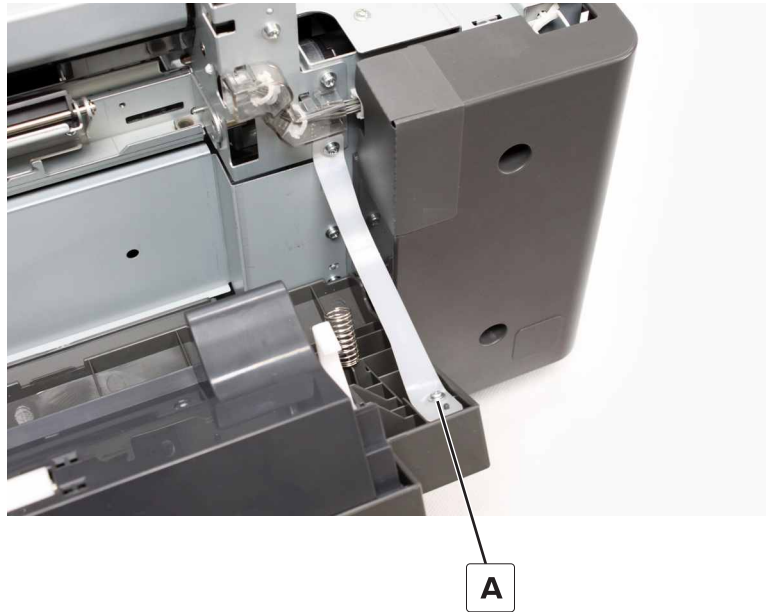
- 1 Remove the five screws (A).



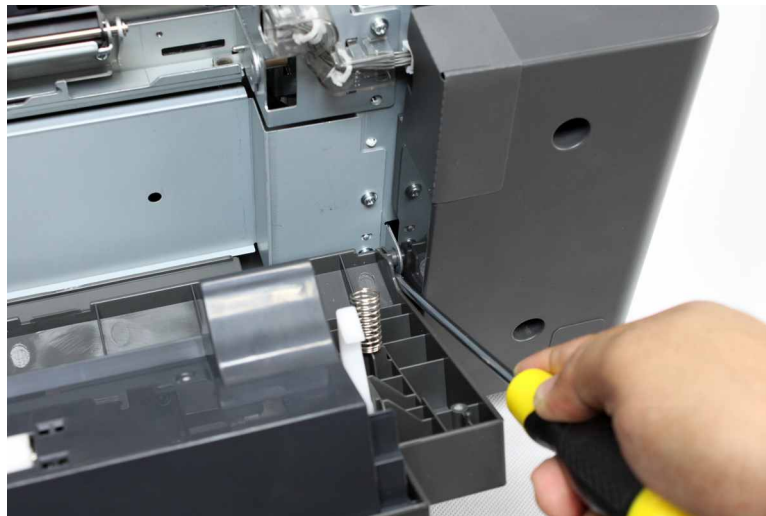
- 2 Remove the cover.

2500-sheet tray jam access cover removal

- 1 Open the jam access cover.
- 2 Remove the screw (A).

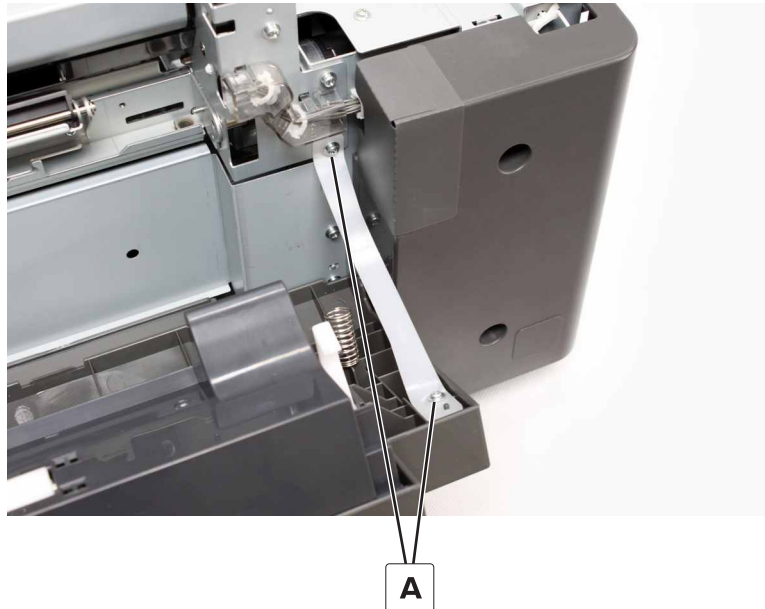


- 3 Pry the right hinge to release, and then remove the cover.



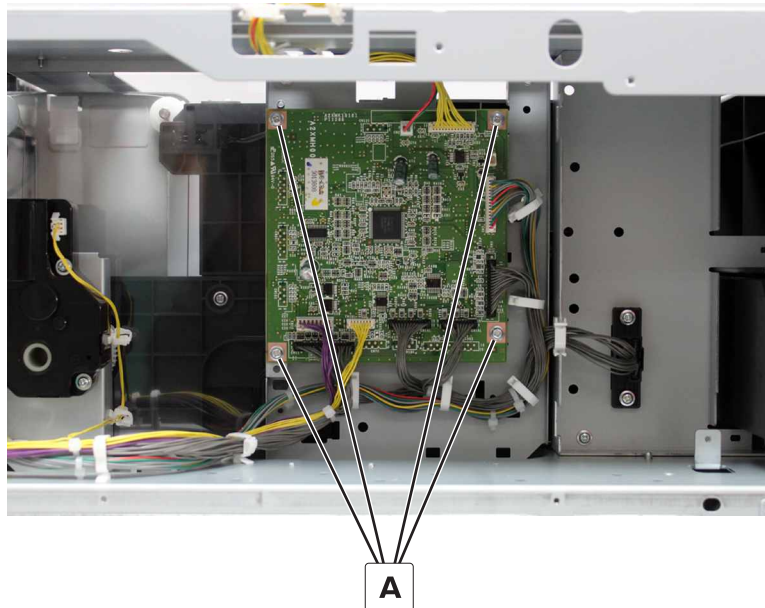
2500-sheet tray jam access door strap removal

- 1 Open the jam access cover.
- 2 Remove the two screws (A), and then remove the strap.



2500-sheet tray controller board removal

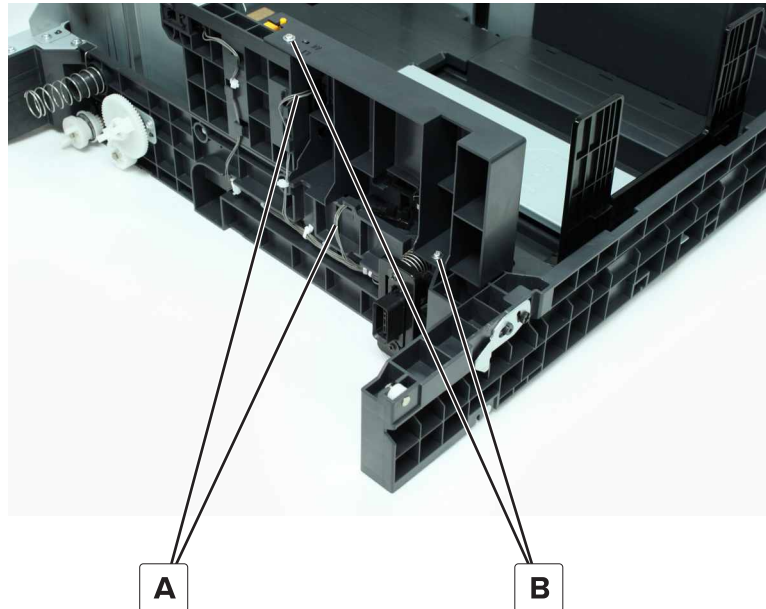
- 1 Remove the tray rear cover. See [“2500-sheet tray rear cover removal” on page 873](#).
- 2 Disconnect the cables, and then remove the four screws (A).



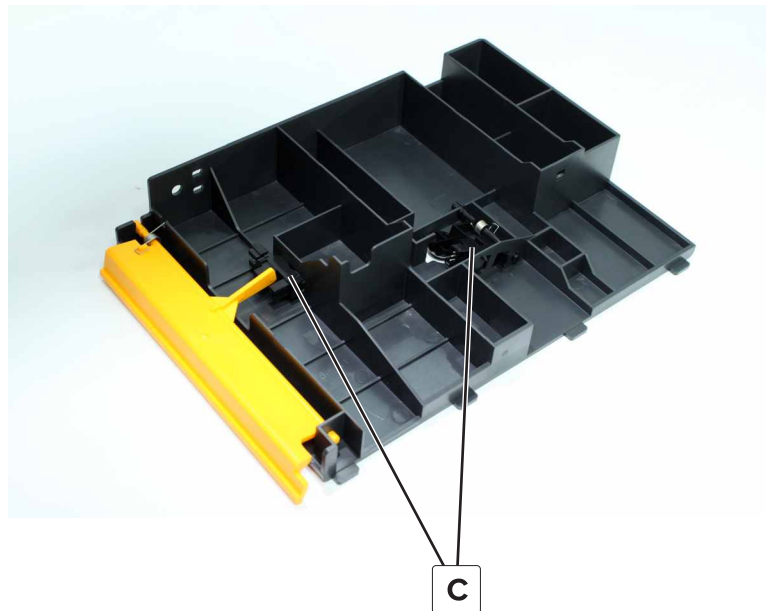
- 3 Remove the controller board.

2500-sheet tray division board removal

- 1 Remove the tray insert.
- 2 Disconnect the two cables (A), and then remove the two screws (B).



- 3 Remove the division board, and then remove the sensors (C).



Installation note: Install the sensors on the new division board.

2500-sheet tray main tray empty sensor bottom actuator removal

- 1 Remove the tray insert.
- 2 Slightly raise the main tray.



- 3 Remove the actuator (C).



C

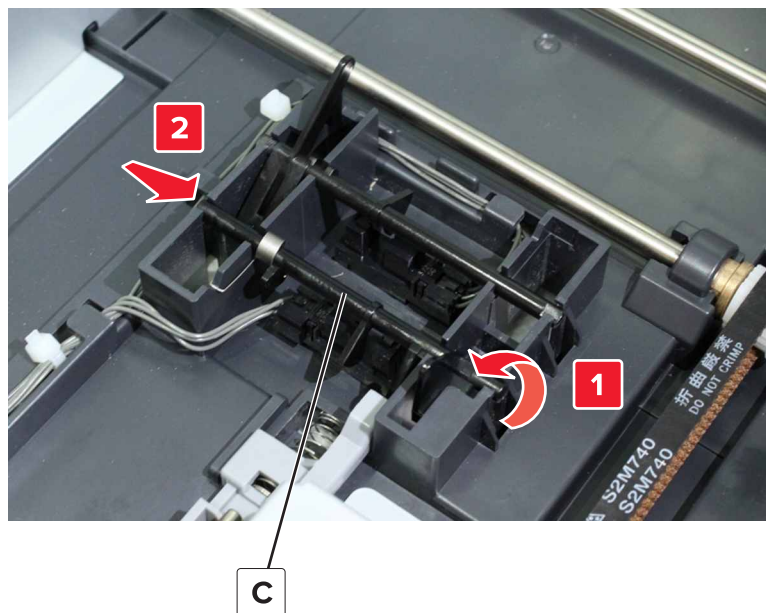
2500-sheet tray elevator home sensor actuator removal

- 1 Remove the tray insert.
- 2 Slightly raise the main tray.



- 3 Rotate the actuator (C) until it is in the upright position, and then slide out to remove.

Note: Take note of the position of the spring on the actuator.



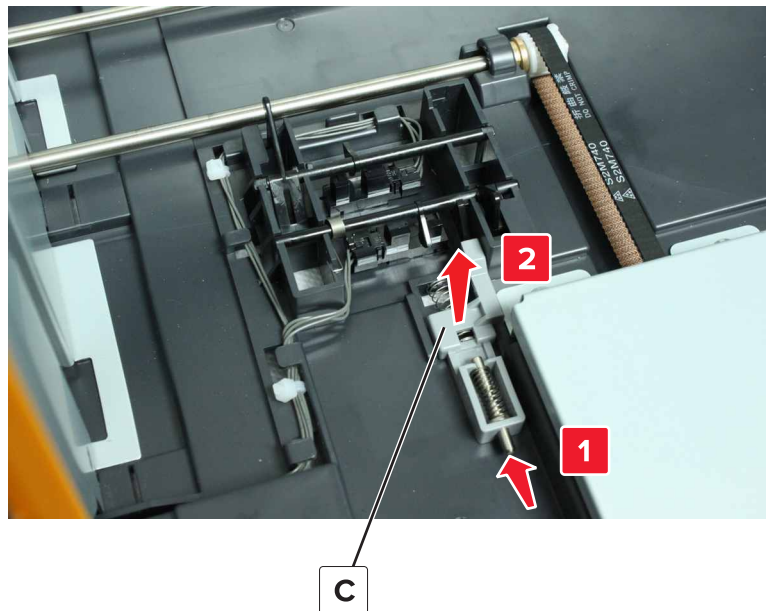
2500-sheet tray transfer guide stop removal

- 1 Remove the tray insert.
- 2 Slightly raise the main tray.



- 3 Remove the actuator (C).

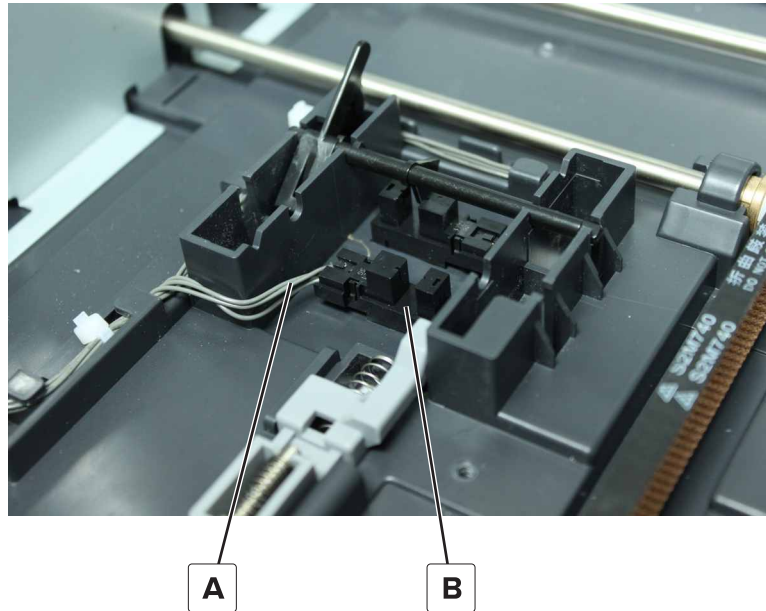
Note: Do not lose the spring on the actuator.



Sensor (2500-sheet tray elevator home) removal

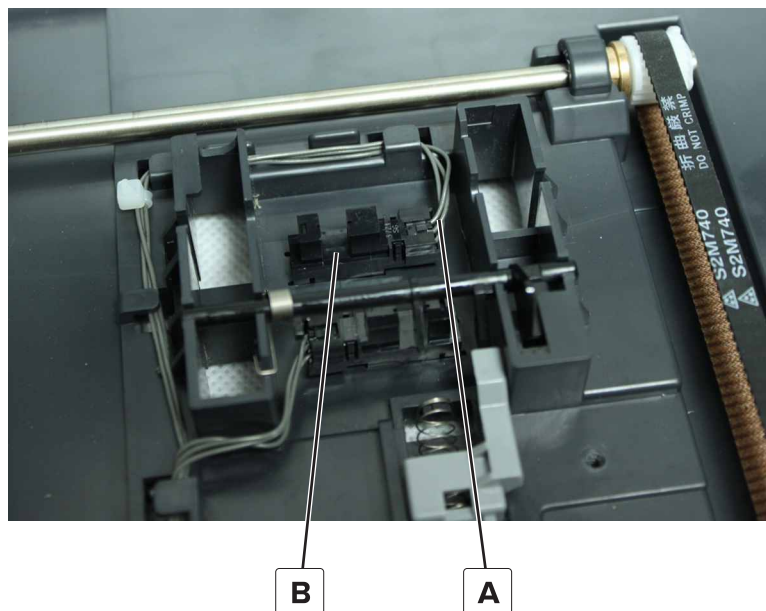
- 1 Remove the tray insert.
- 2 Remove the 2500-sheet tray elevator home sensor actuator. See [“2500-sheet tray elevator home sensor actuator removal” on page 881](#).

- 3 Disconnect the cable (A), and then remove the sensor (B).



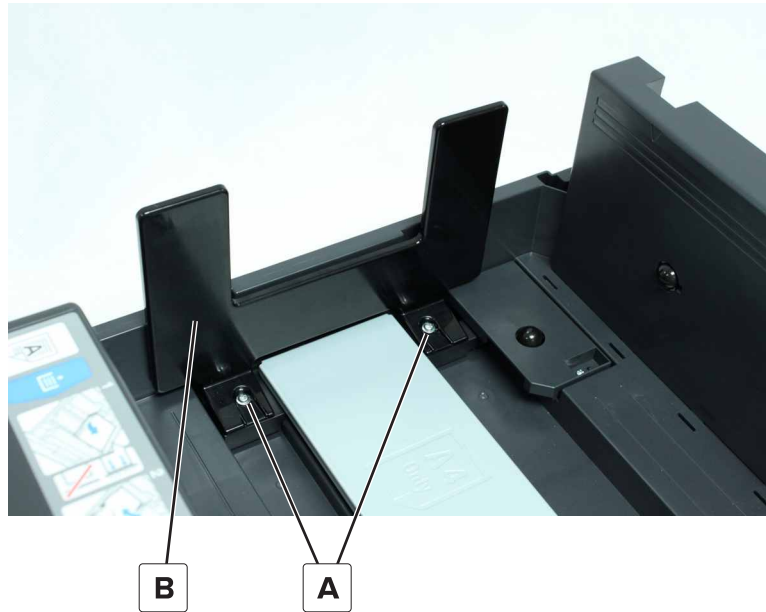
Sensor (2500-sheet tray main tray empty, bottom) removal

- 1 Remove the tray insert.
- 2 Remove the 2500-sheet tray empty sensor bottom actuator. See [“2500-sheet tray main tray empty sensor bottom actuator removal” on page 880](#).
- 3 Disconnect the cable (A), and then remove the sensor (B).

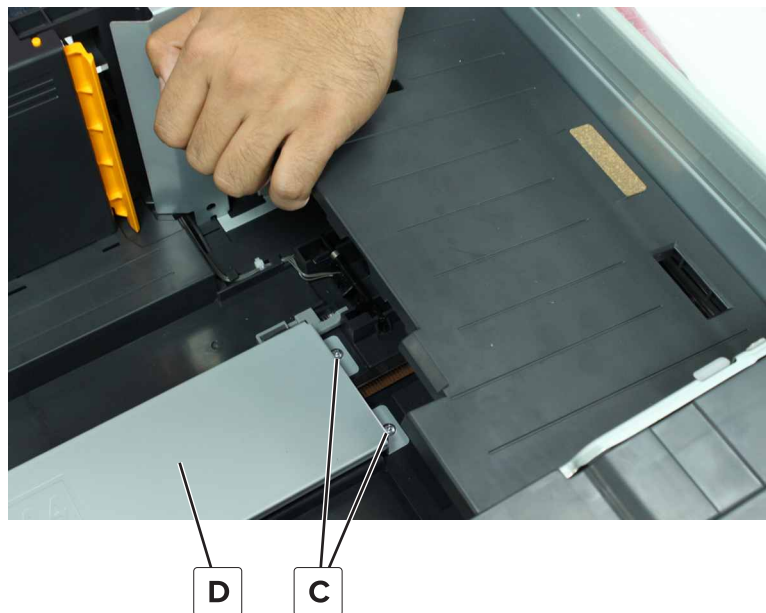


2500-sheet tray paper stack transfer guide removal

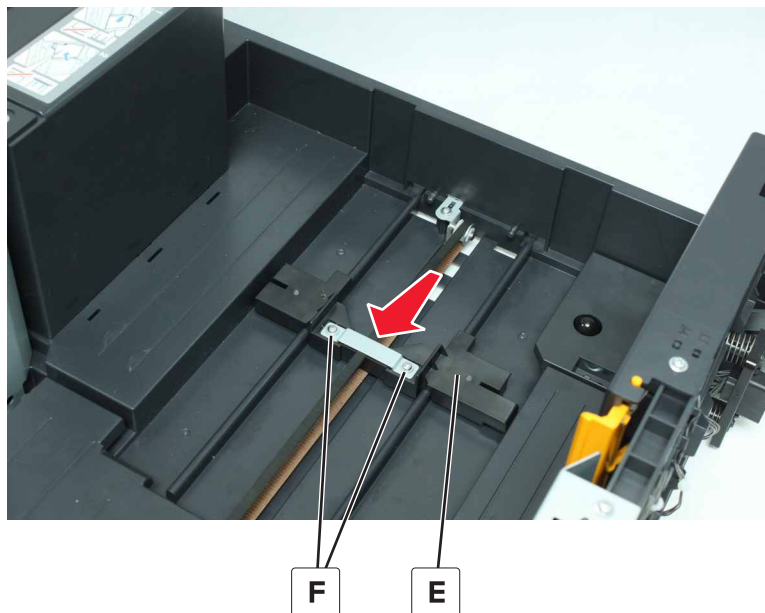
- 1 Remove the tray insert.
- 2 Remove the two screws (A), and then remove the paper stack transfer guide (B).



- 3 Raise the main tray, and then remove the two screws (C).
- 4 Remove the sub-tray plate (D).



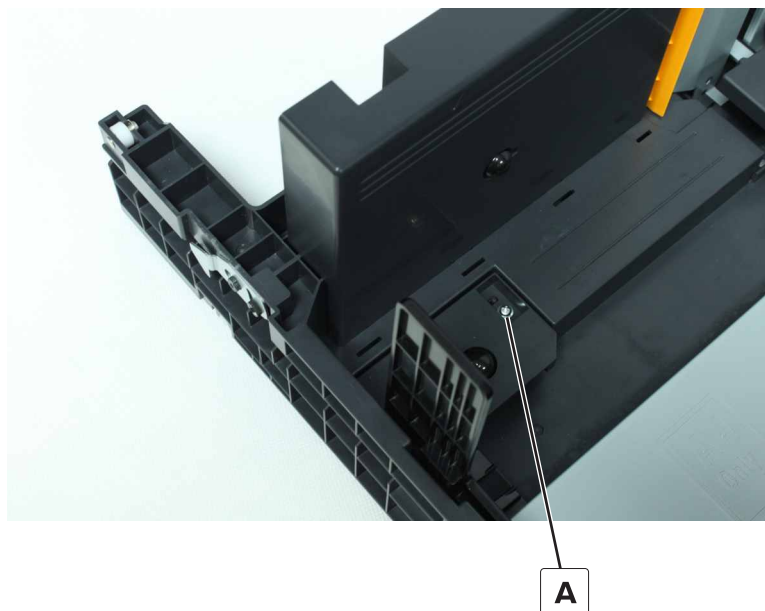
- 5** Move the paper stack transfer guide base (E), and then remove the two screws (F).



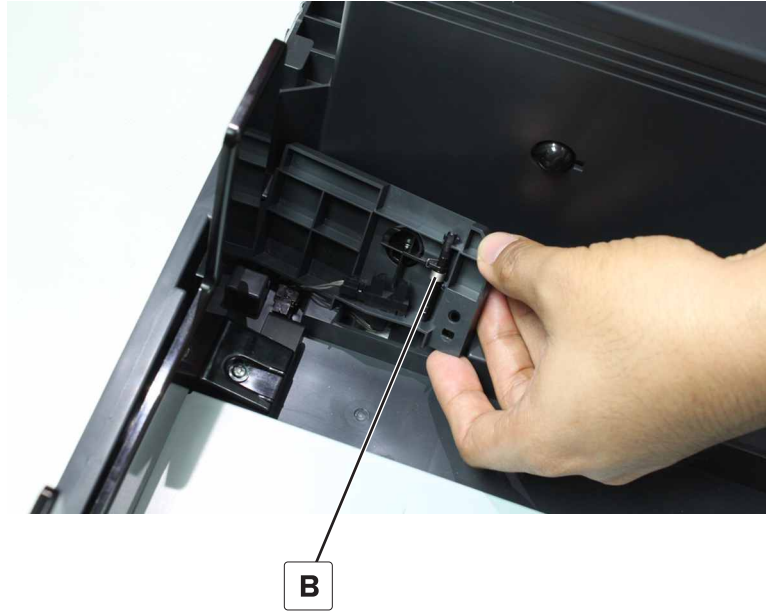
- 6** Remove the bracket, and then remove the guide base.

2500-sheet reserve tray empty sensor actuator removal

- 1** Remove the tray insert.
- 2** Remove the screw (A).

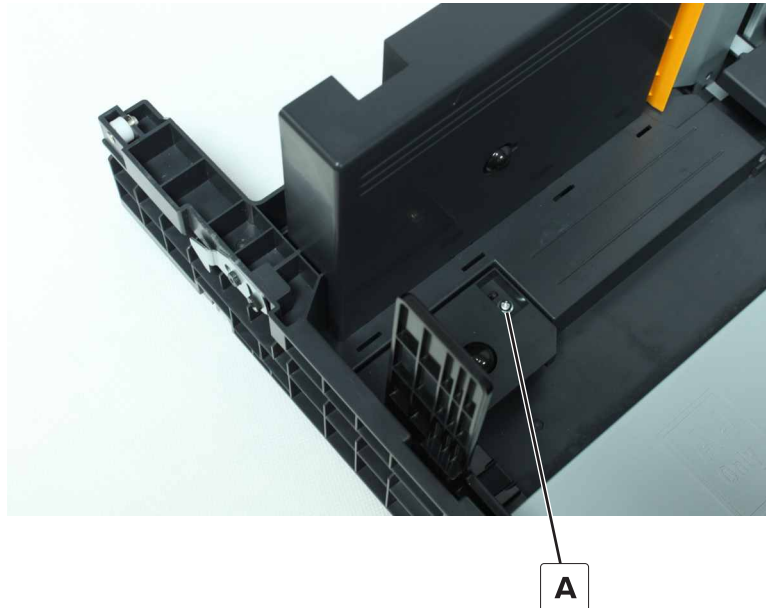


- 3** Swing open the sensor cover, and then remove the actuator (B).

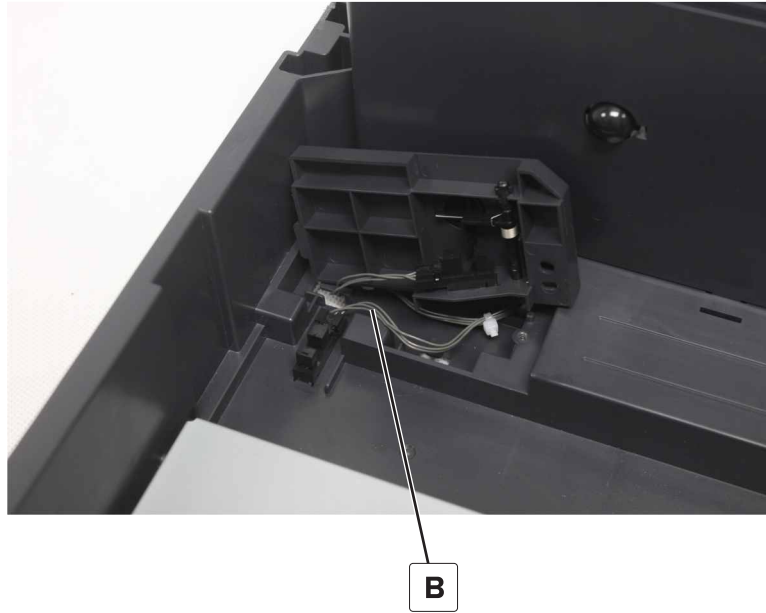


Sensor (2500-sheet tray transfer guide home) removal

- 1** Remove the tray insert.
2 Remove the screw (A).



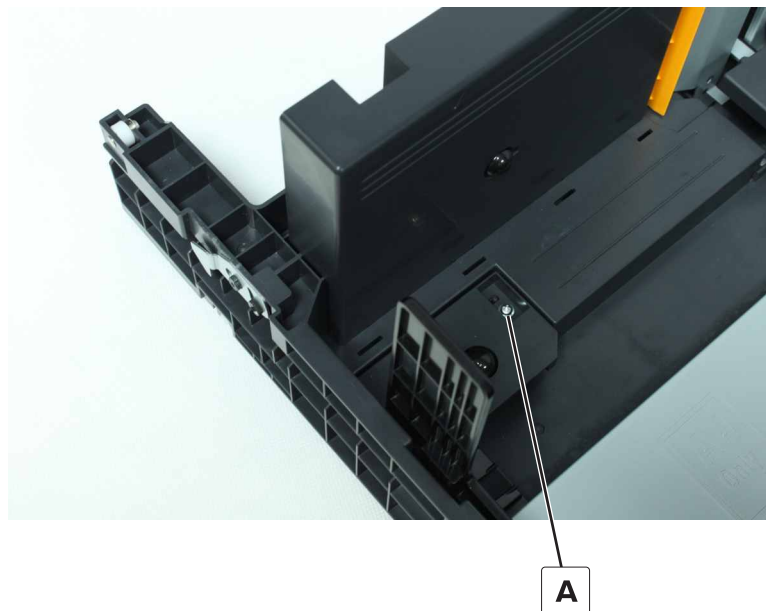
- 3** Swing open the cover, and then disconnect the cable (B).



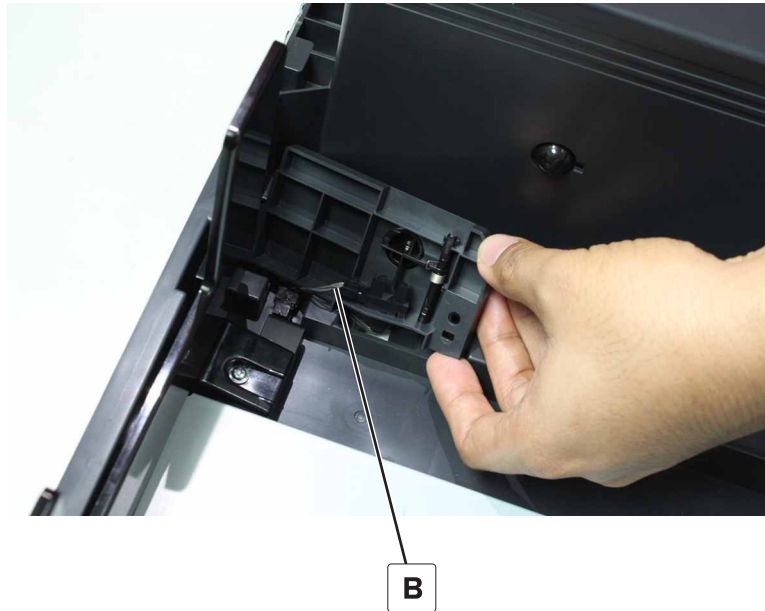
- 4** Remove the sensor.

Sensor (2500-sheet tray reserve tray empty) removal

- 1** Remove the tray insert.
2 Remove the screw (A).



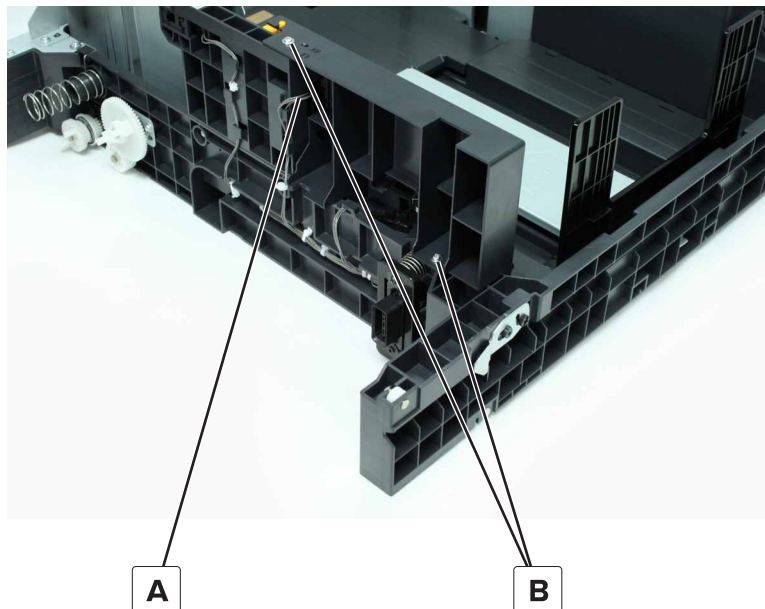
- 3** Swing open the cover, and then disconnect the cable (B).



- 4** Remove the sensor.

Sensor (2500-sheet paper stack transfer) removal

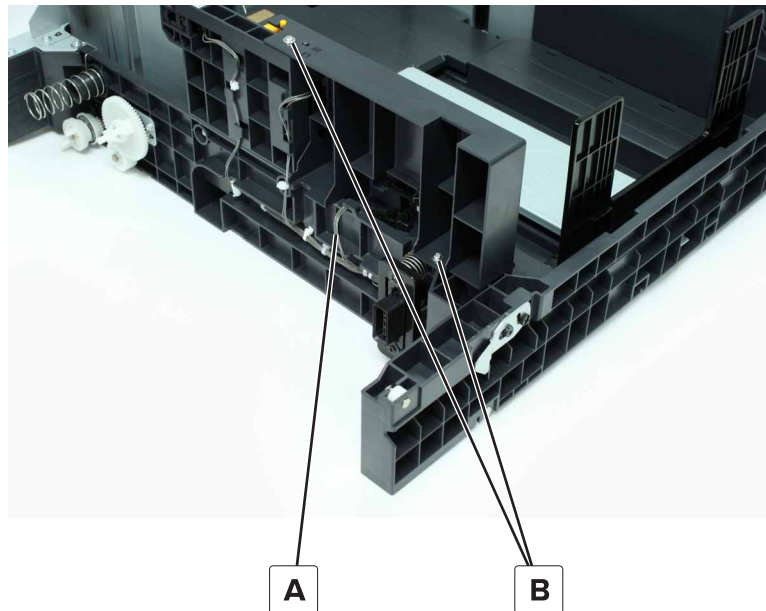
- 1** Remove the tray insert.
- 2** Disconnect the cable (A), and then remove the two screws (B).



- 3** Remove the sensor from its housing on the division board.

Sensor (2500-sheet tray reserve tray paper limit) removal

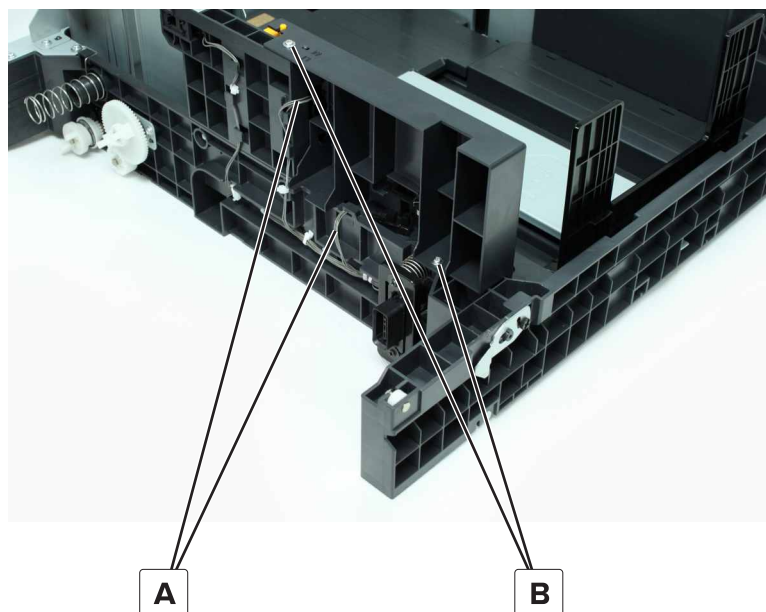
- 1 Remove the tray insert.
- 2 Disconnect the cable (A), and then remove the two screws (B).



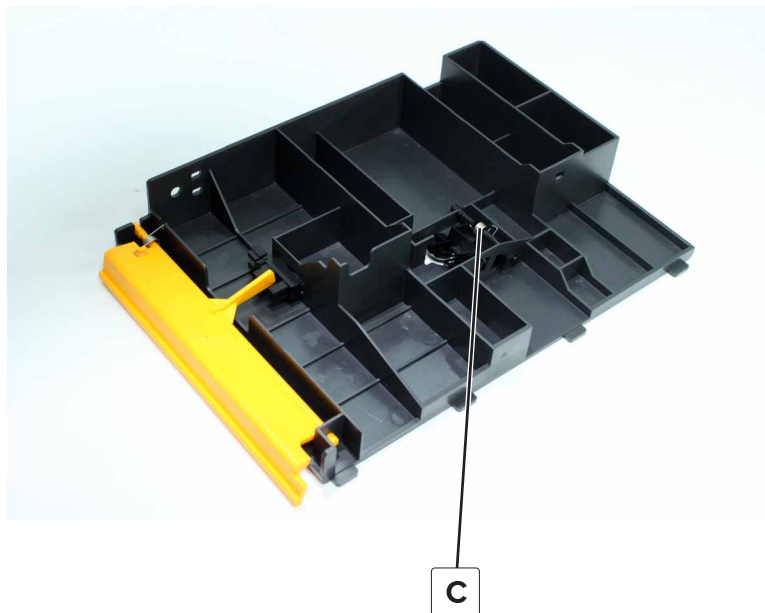
- 3 Remove the sensor.

2500-sheet reserve tray paper limit sensor actuator removal

- 1 Remove the tray insert.
- 2 Disconnect the two cables (A), and then remove the two screws (B).

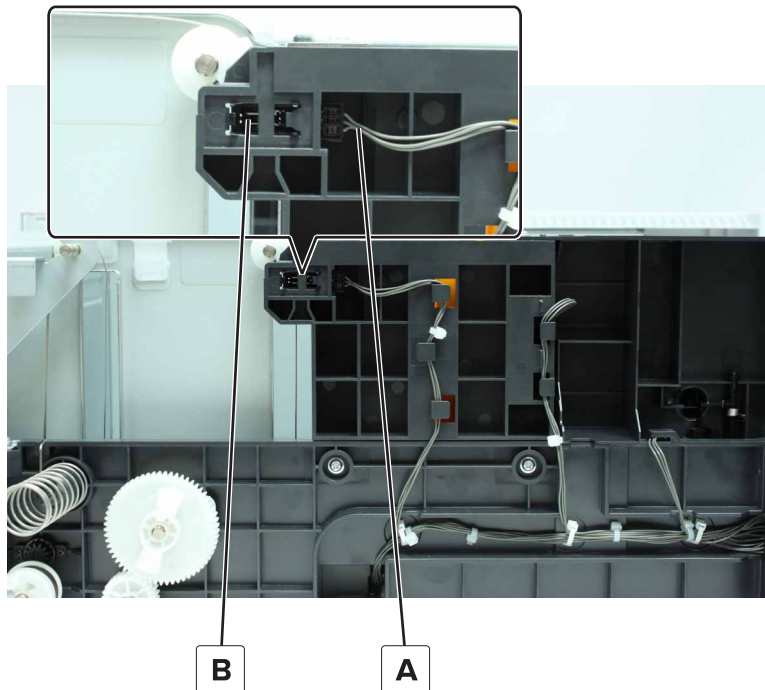


- 3** Remove the division board, and then remove the actuator (C).



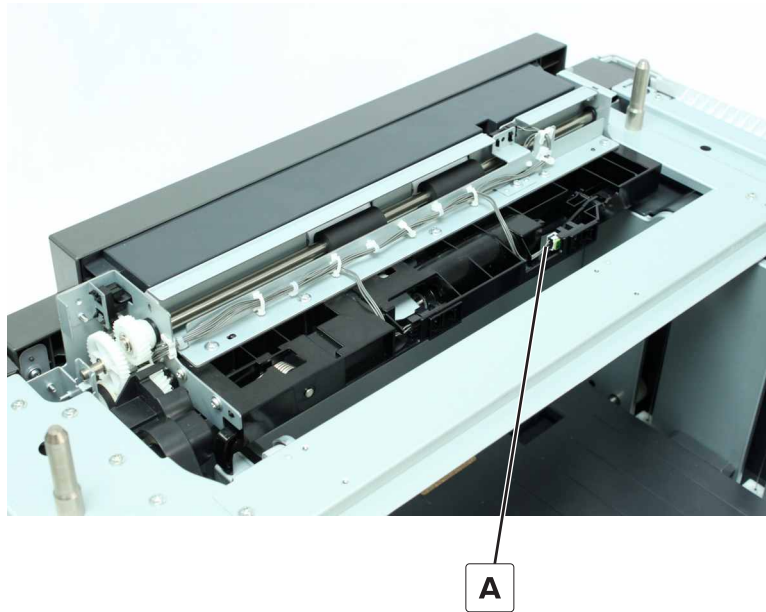
Sensor (2500-sheet tray main tray near empty) removal

- 1** Remove the tray insert.
- 2** Disconnect the cable (A), and then remove the sensor (B).



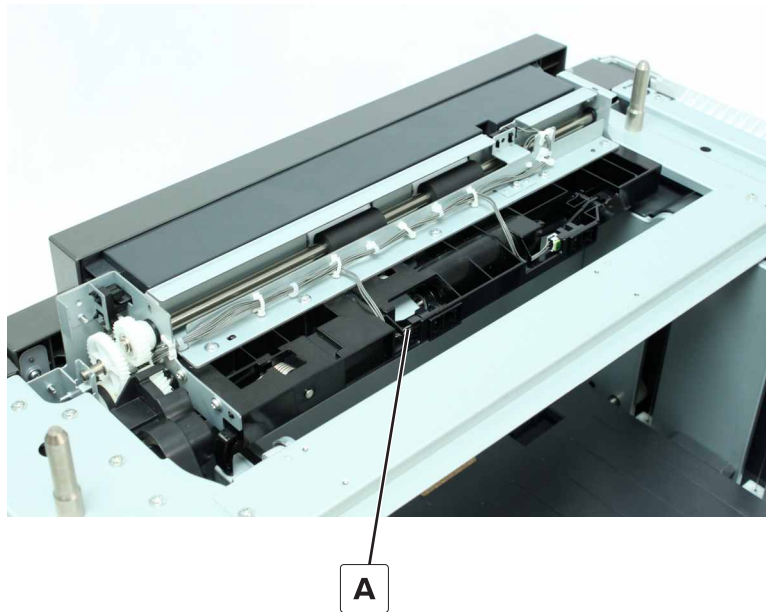
Sensor (2500-sheet tray main tray empty, top) removal

- 1 Disconnect the cable (A).
- 2 Remove the sensor.



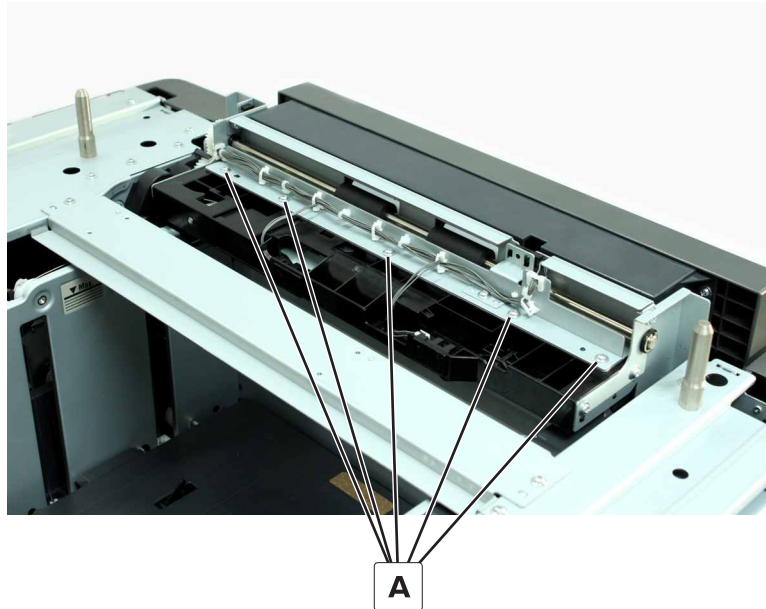
Sensor (2500-sheet tray main tray elevator limit) removal

- 1 Disconnect the cable (A).
- 2 Remove the sensor.

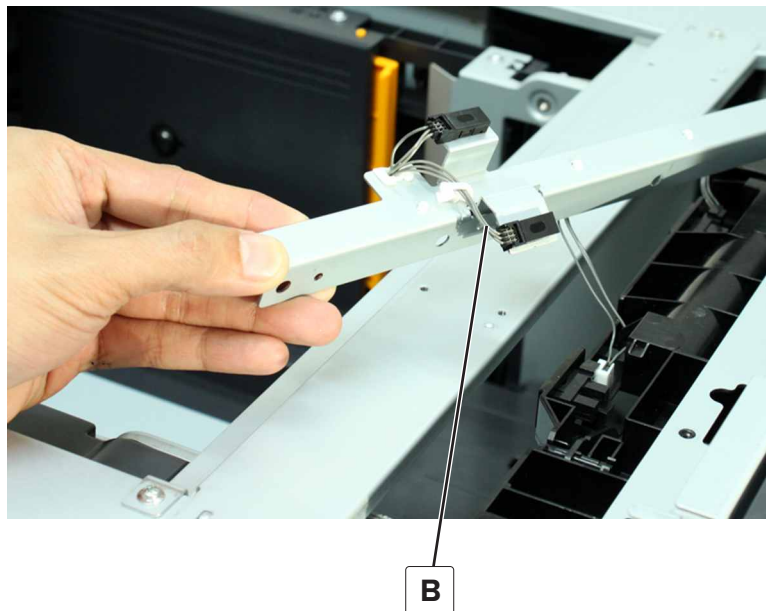


Sensor (2500-sheet tray feed) removal

- 1 Remove the five screws (A).

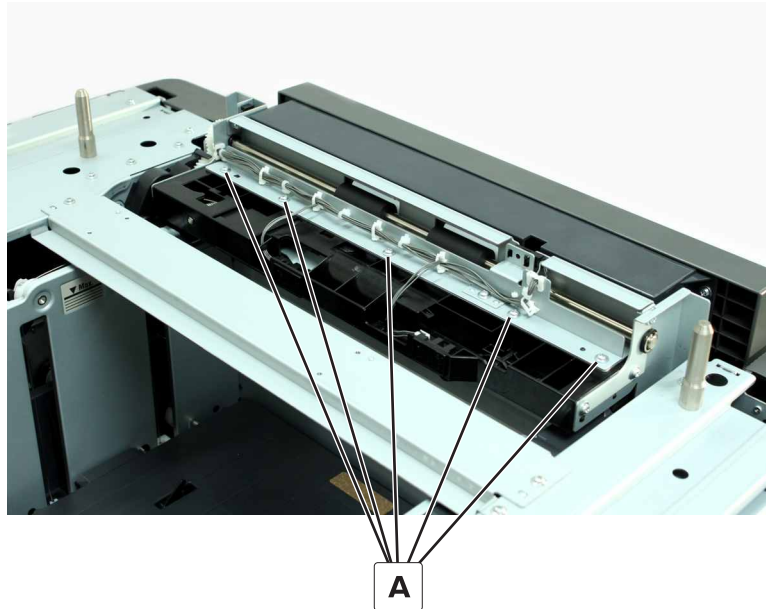


- 2 Disconnect the cable (B), and then remove the sensor.

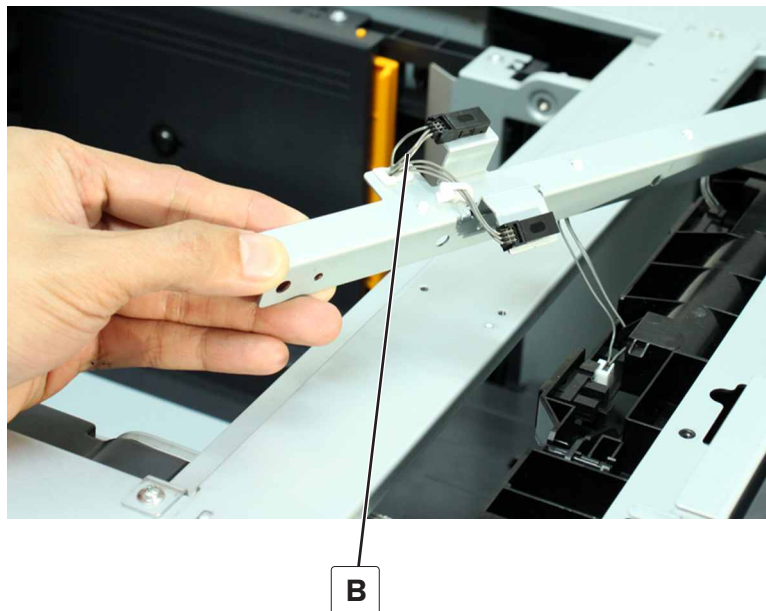


Sensor (2500-sheet tray transport) removal

1 Remove the five screws (A).

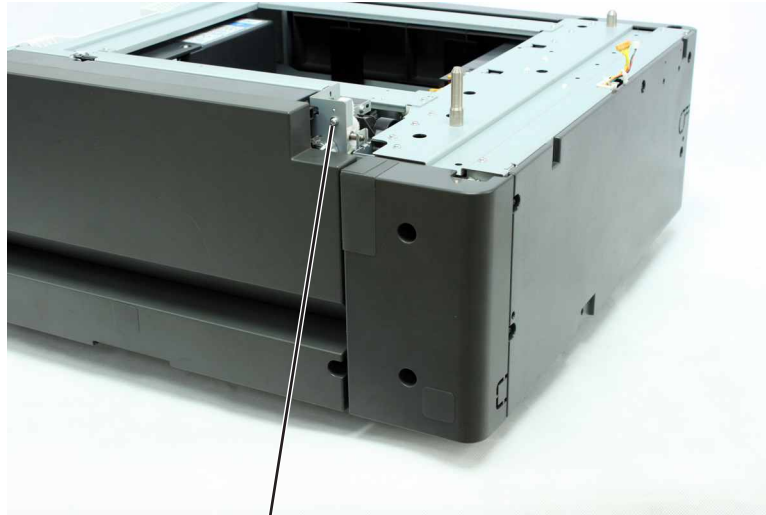


2 Disconnect the cable (B), and then remove the sensor.



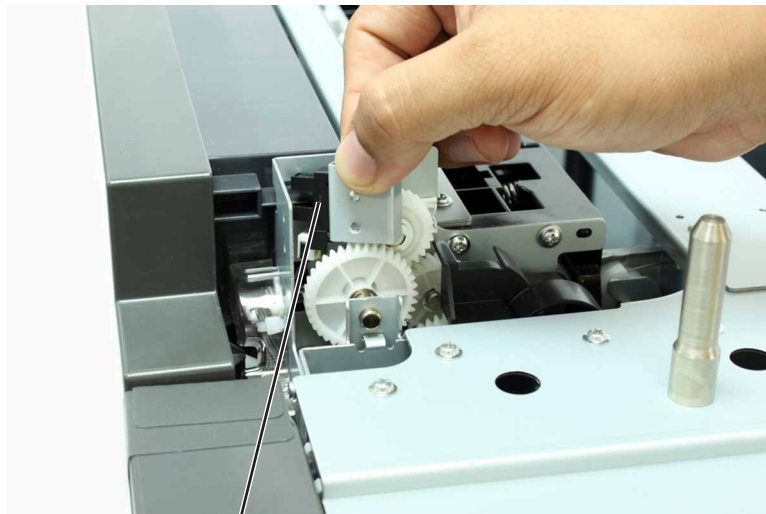
Sensor (2500-sheet tray jam access door) removal

- 1 Remove the screw (A), and then remove the sensor mount.



A

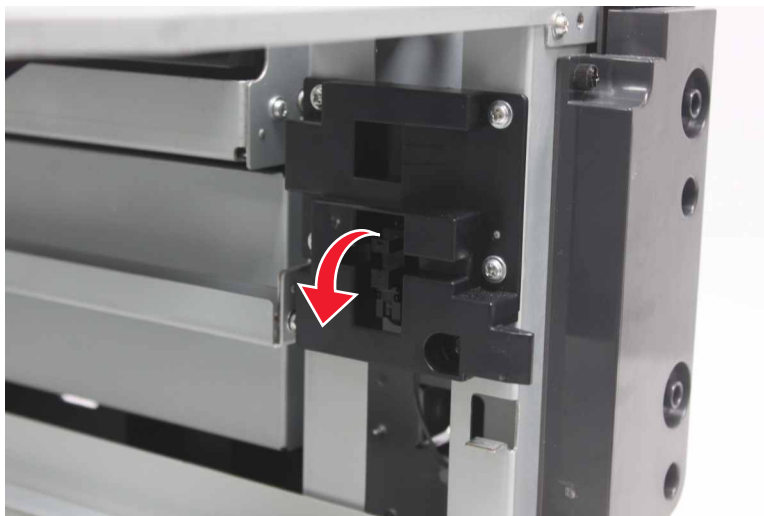
- 2 Disconnect the sensor (B) from the cable.



B

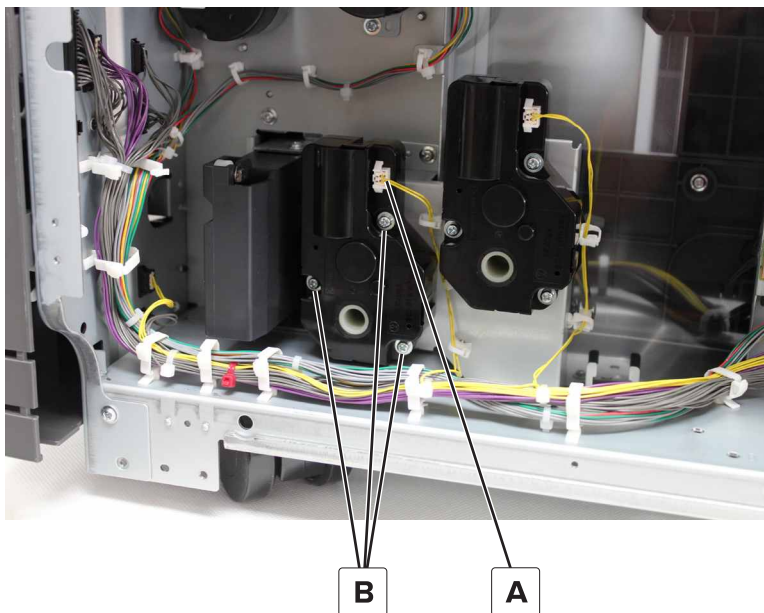
Sensor (2500-sheet tray set) removal

- 1 Remove the tray insert.
- 2 Remove the sensor, and then disconnect the sensor cable.



Motor (2500-sheet tray elevator) removal

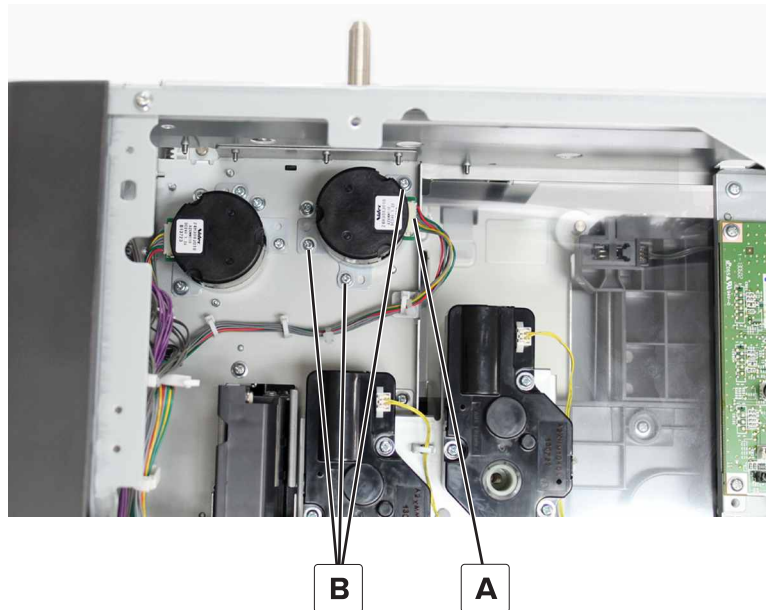
- 1 Remove the rear cover. See [“2500-sheet tray rear cover removal” on page 873.](#)
- 2 Disconnect the cable (A), and then remove the three screws (B).



- 3 Remove the motor.

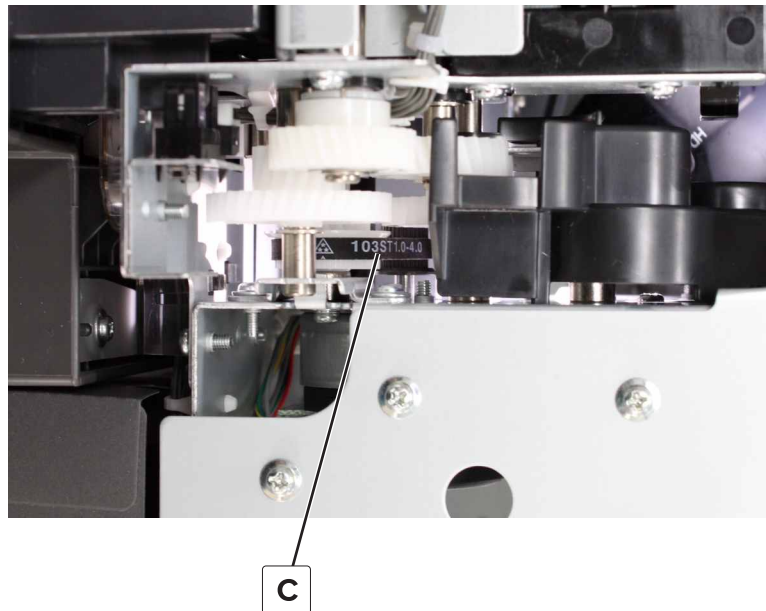
Motor (2500-sheet tray feed) removal

- 1 Remove the rear cover. See [“2500-sheet tray rear cover removal” on page 873.](#)
- 2 Disconnect the cable (A), and then remove the three screws (B).



- 3 Remove the motor.

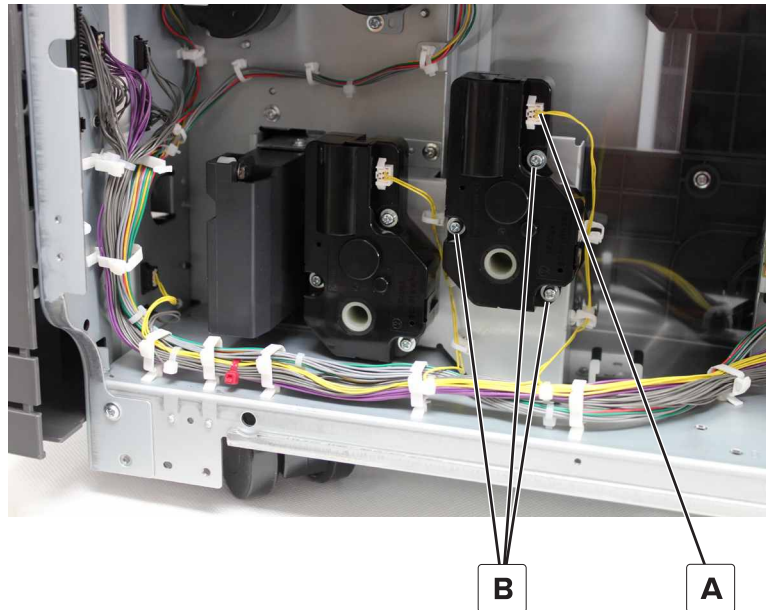
Note: Make sure that the feed motor belt (C) remains attached to the gear.



Installation note: Make sure that the feed motor belt is installed properly before installing the feed motor.

Motor (2500-sheet tray transfer guide) removal

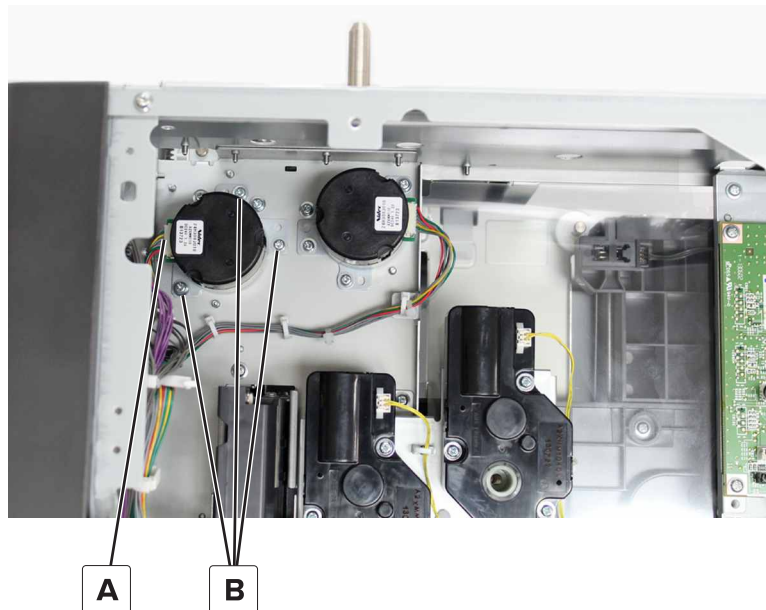
- 1 Remove the rear cover. See [“2500-sheet tray rear cover removal” on page 873](#).
- 2 Disconnect the cable (A), and then remove the three screws (B).



- 3 Remove the motor.

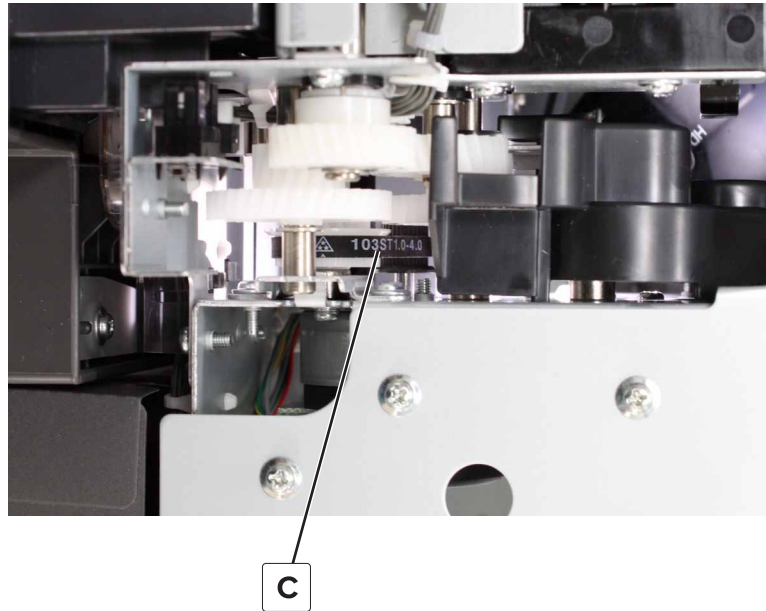
Motor (2500-sheet tray transport) removal

- 1 Remove the 2500-sheet tray rear cover. See [“2500-sheet tray rear cover removal” on page 873](#).
- 2 Disconnect the cable (A), and then remove the three screws (B).



- 3 Remove the motor.

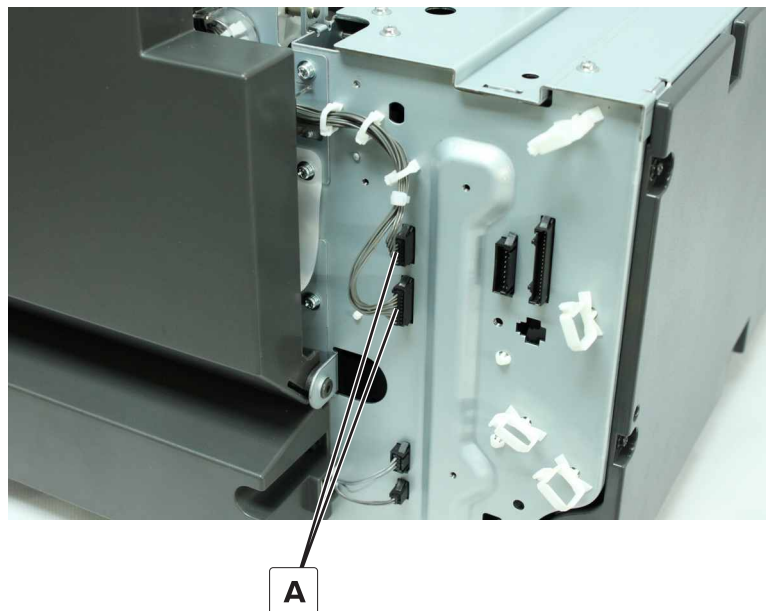
Note: Make sure that the belt (C) remains on the gear.



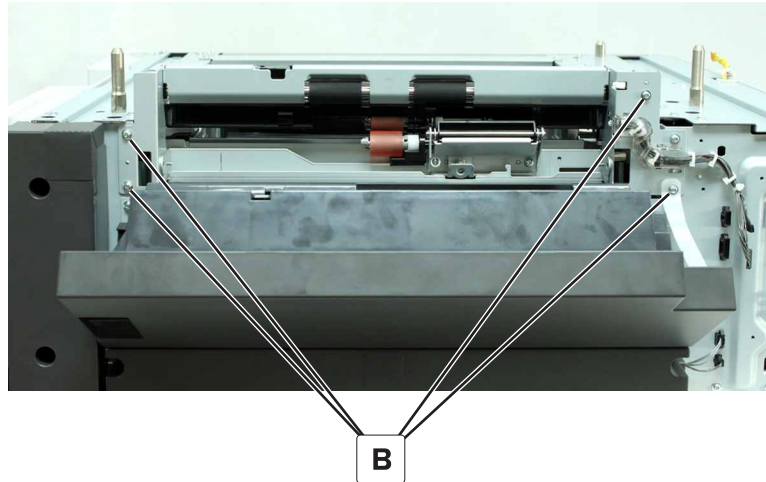
Installation note: Make sure that the belt is installed properly before reinstalling the transport motor.

2500-sheet tray paper feed assembly removal

- 1 Open the rear right cover. See [“2500-sheet tray rear right cover removal” on page 874.](#)
- 2 Disconnect the two cables (A).

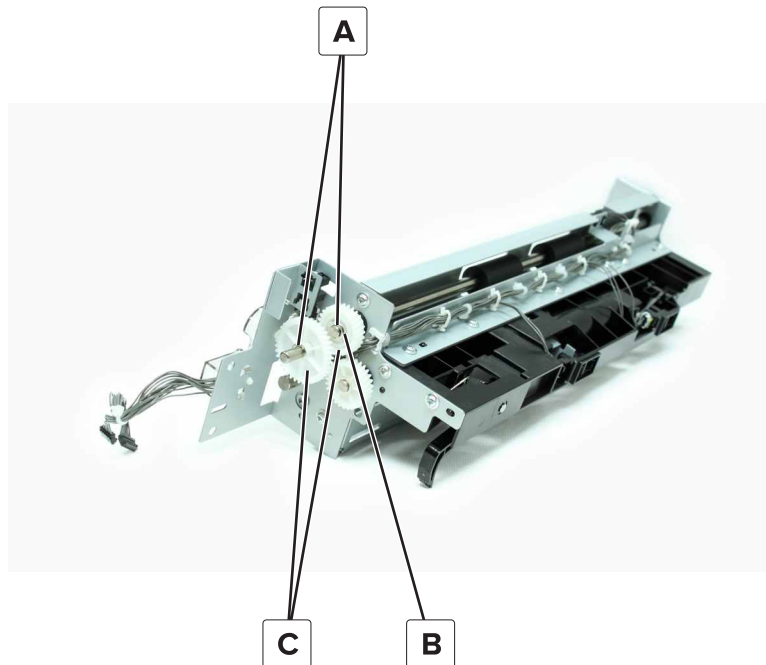


- 3** Remove the four screws (B), and then remove the paper feed assembly.

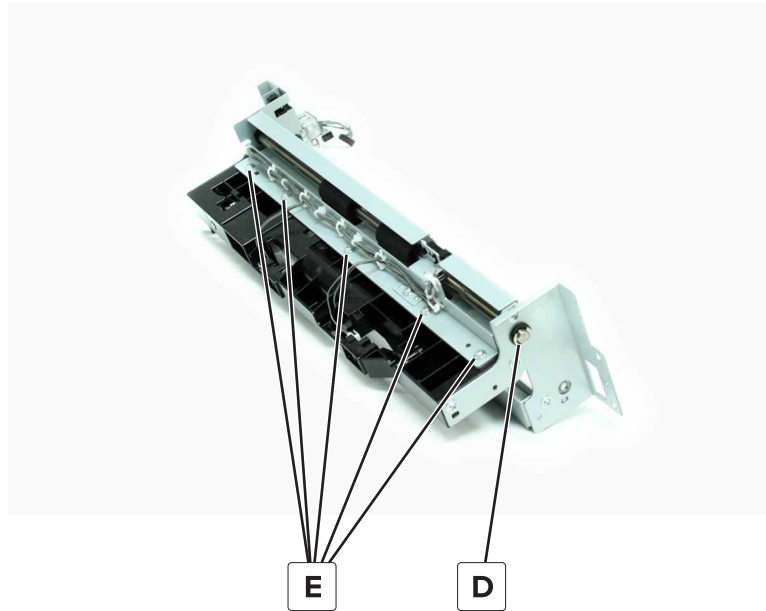


2500-sheet tray transport roller removal

- 1** Remove the rear right cover. See [“2500-sheet tray rear right cover removal” on page 874.](#)
- 2** Remove the paper feed assembly. See [“2500-sheet tray paper feed assembly removal” on page 898.](#)
- 3** Remove the two clips (A), washer (B), and two gears (C) on the right side of the paper feed assembly.



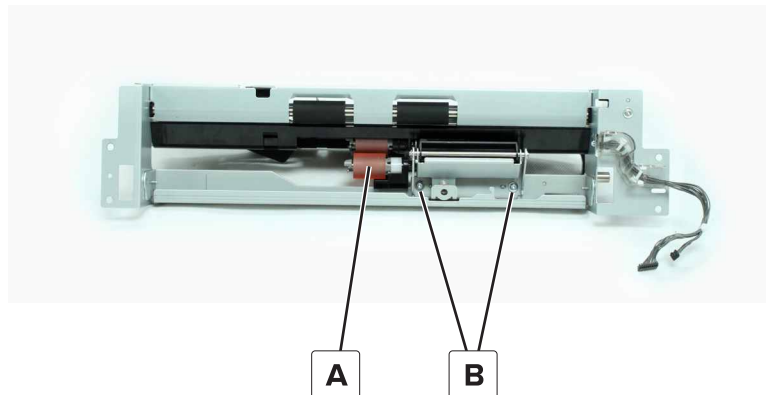
- 4** Remove the clip on the left side (D), and then remove the five screws (E).



- 5** Remove the roller.

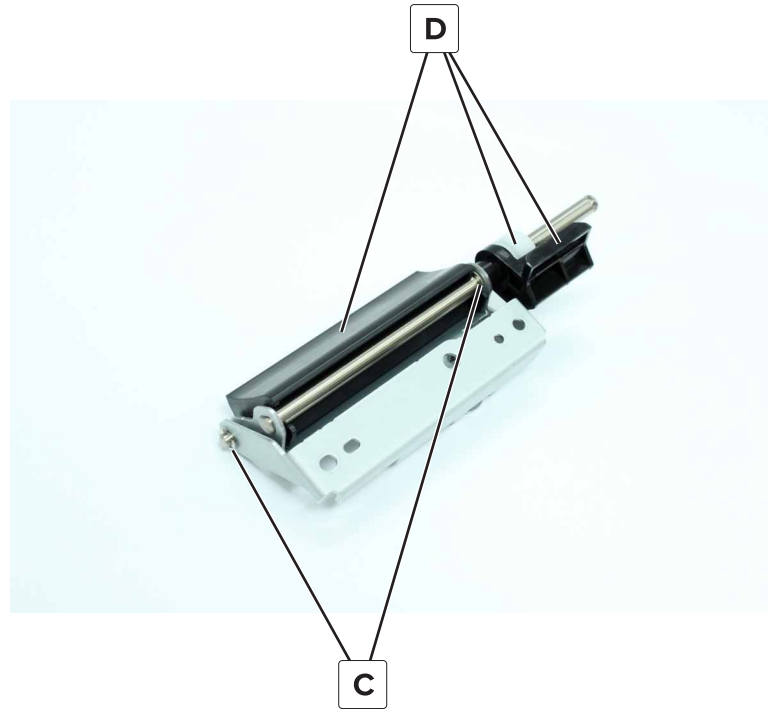
2500-sheet tray vertical media transport guide assembly removal

- 1** Remove the rear right cover. See [“2500-sheet tray rear right cover removal” on page 874.](#)
- 2** Remove the paper feed assembly. See [“2500-sheet tray paper feed assembly removal” on page 898.](#)
- 3** Remove the roller (A), and then remove the two screws (B).



- 4** Remove the two clips (C), and then remove the two shafts from the bracket.

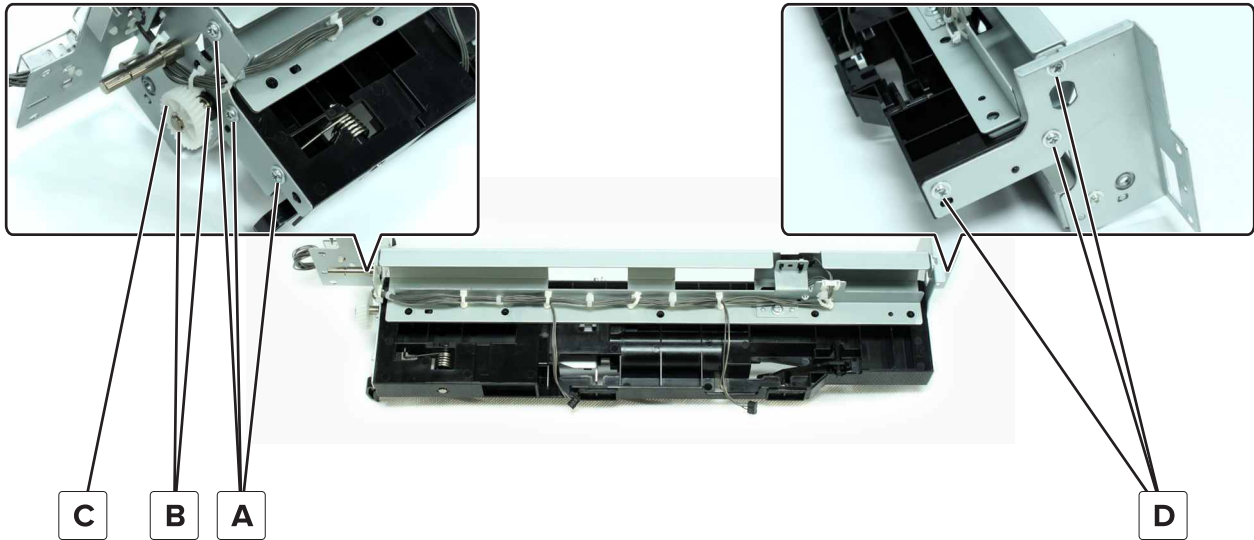
- 5** Remove the vertical media transport guide assembly (D) from the shafts.



2500-sheet tray pick assembly removal

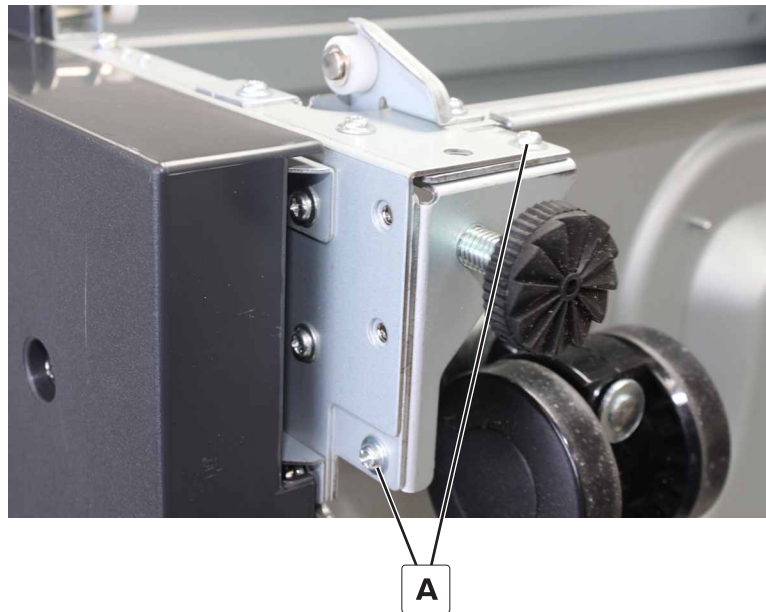
- 1** Remove the 2500-Sheet Tray rear right cover. See [“2500-sheet tray rear right cover removal” on page 874.](#)
- 2** Remove the 2500-Sheet Tray paper feed assembly. See [“2500-sheet tray paper feed assembly removal” on page 898.](#)
- 3** Remove the sensor (2500-sheet tray main tray elevator limit). See [“Sensor \(2500-sheet tray main tray elevator limit\) removal” on page 891.](#)
- 4** Remove the sensor (2500-sheet tray main tray empty, top). See [“Sensor \(2500-sheet tray main tray empty, top\) removal” on page 891.](#)
- 5** Remove the 2500-sheet tray transport roller. See [“2500-sheet tray transport roller removal” on page 899.](#)
- 6** Remove the three screws (A), two clips (B), and gear (C).

7 Remove the three screws (D), and then remove the pick assembly.



2500-sheet tray stopper removal

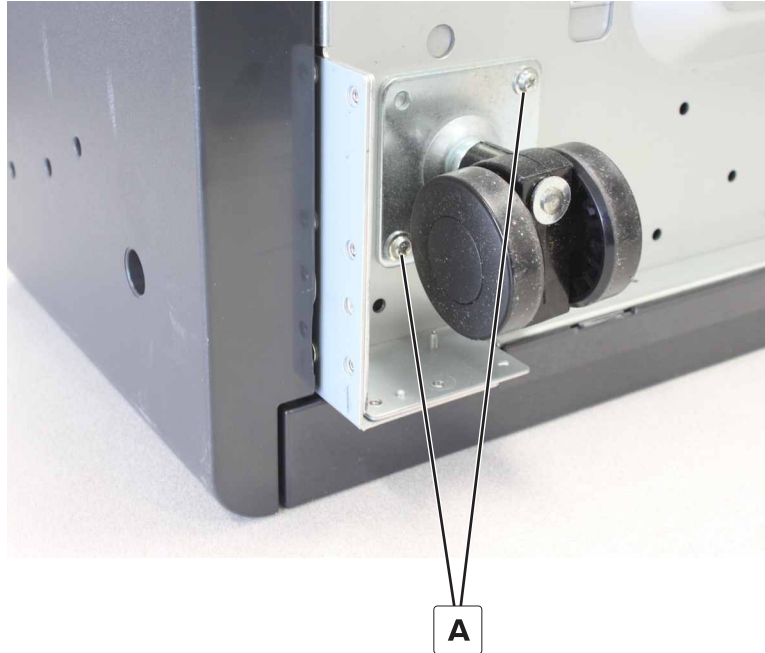
- 1** Position the tray on its side.
- 2** Select a stopper.
- 3** Remove the two screws (A), and then remove the stopper.



2500-sheet tray caster wheel removal

- 1** Position the tray on its side.
- 2** Select a caster.

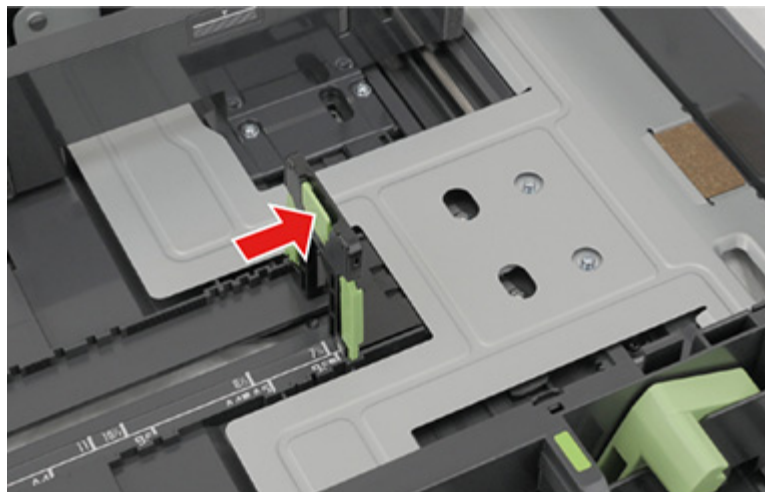
- 3** Remove the two screws (A), and then remove the caster.



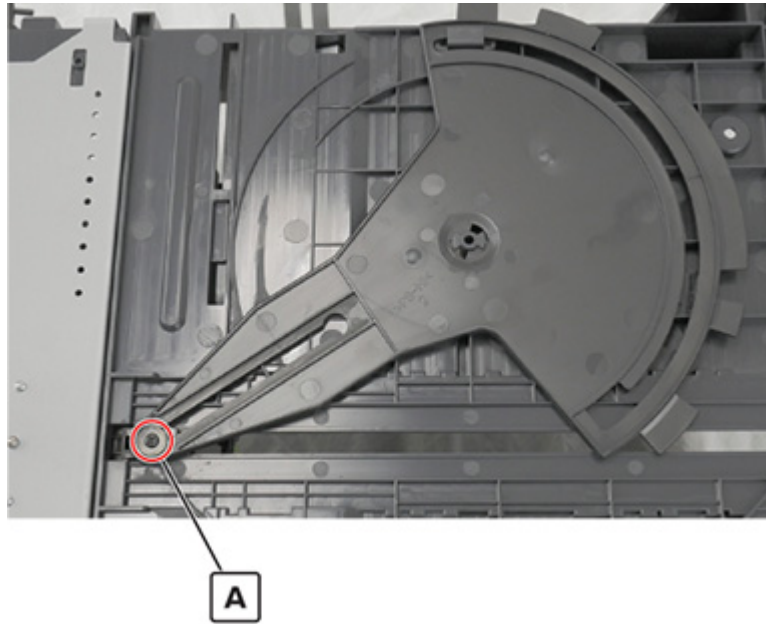
2 x 500-sheet tray removals

Paper length sensor actuator removal

- 1** Remove the tray insert.
- 2** Move the guide to its farthest position.



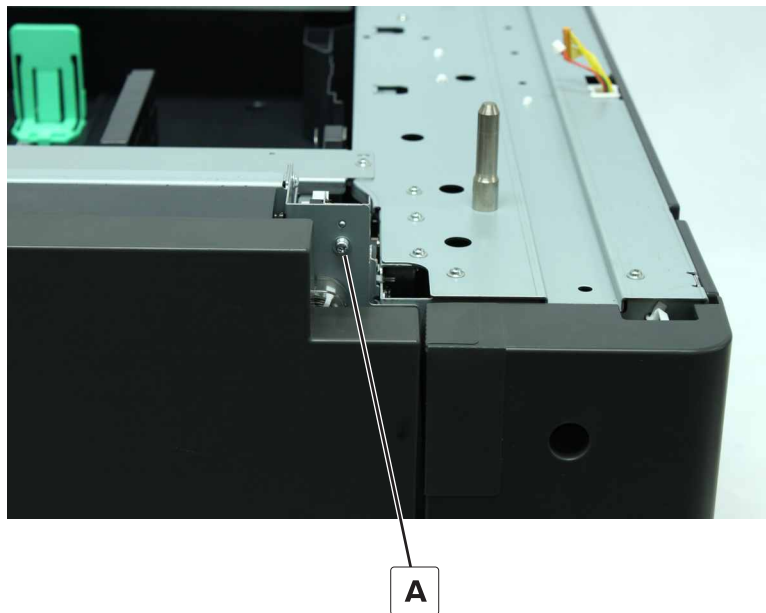
- 3 Under the tray, remove the screw (A).



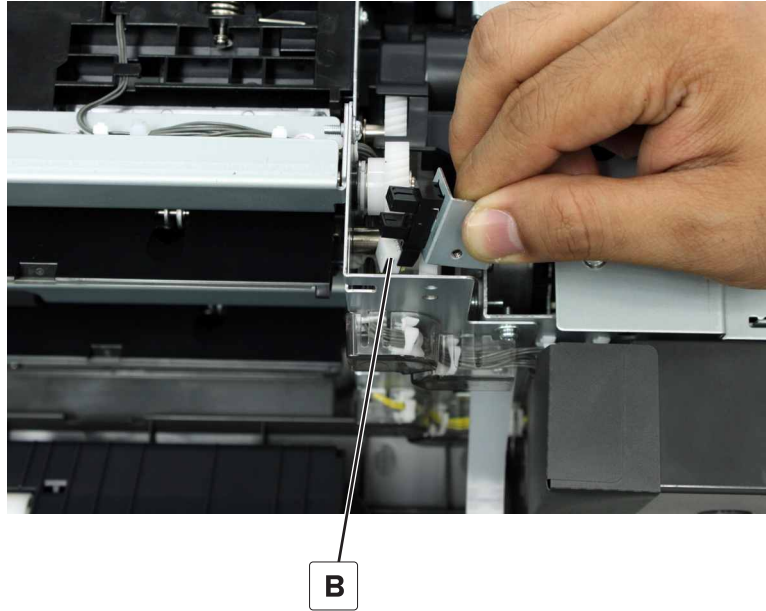
- 4 Remove the sensor actuator.

Sensor (2 x 500-sheet tray jam access door) removal

- 1 Remove the screw (A), and then remove the sensor bracket.



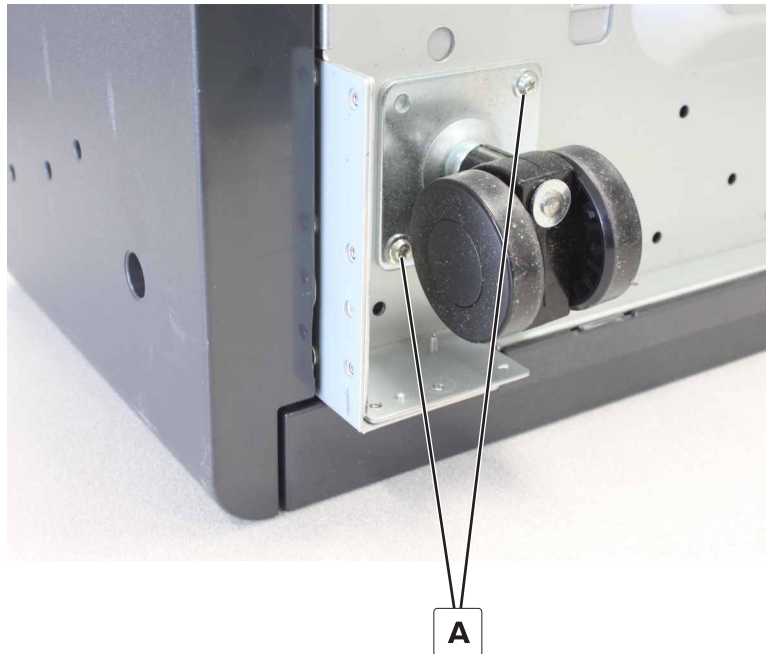
- 2 Disconnect the cable (B), and then remove the sensor.



- 3 Remove the sensor from the bracket.

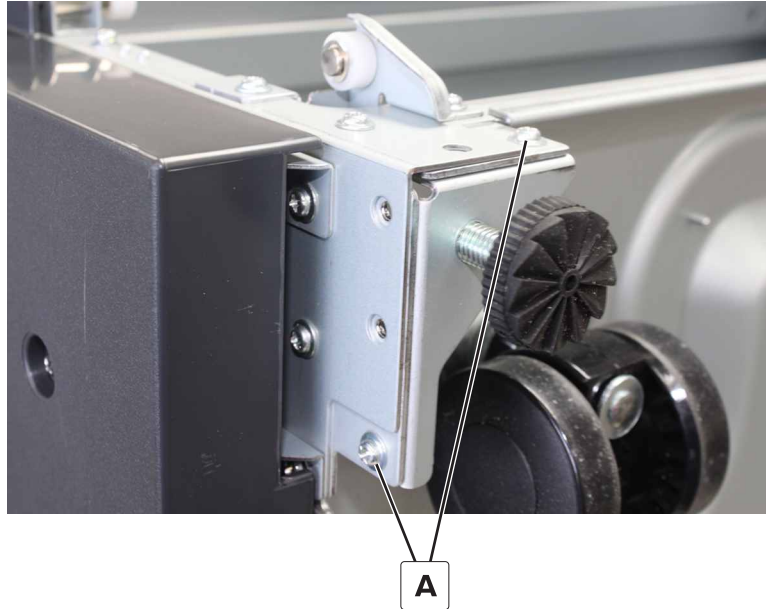
2 x 500-sheet tray caster wheel removal

- 1 Position the tray on its side.
- 2 Select a caster.
- 3 Remove the two screws (A), and then remove the caster.



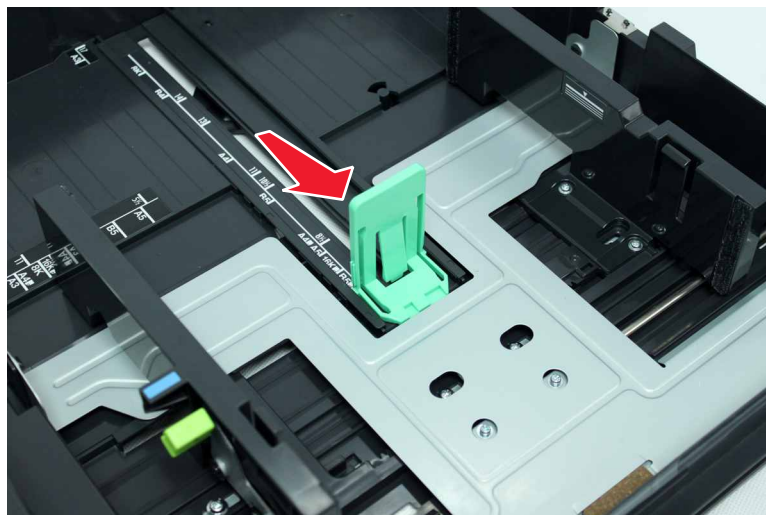
Printer rubber stopper removal

- 1 Position the tray on its side.
- 2 Select a stopper.
- 3 Remove the two screws (A), and then remove the stopper.

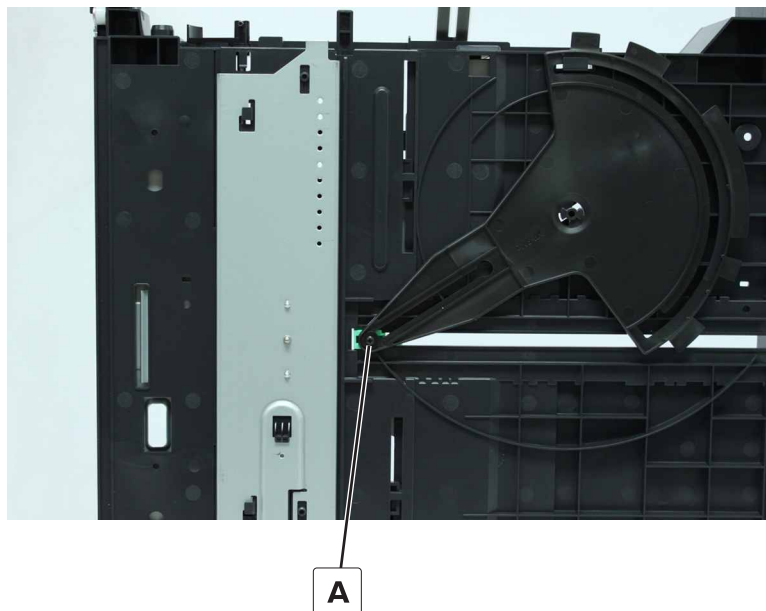


Tray insert paper length guide removal

- 1 Remove the tray insert.
- 2 Move the guide to the shortest paper length setting.



- 3** Remove the screw (A).

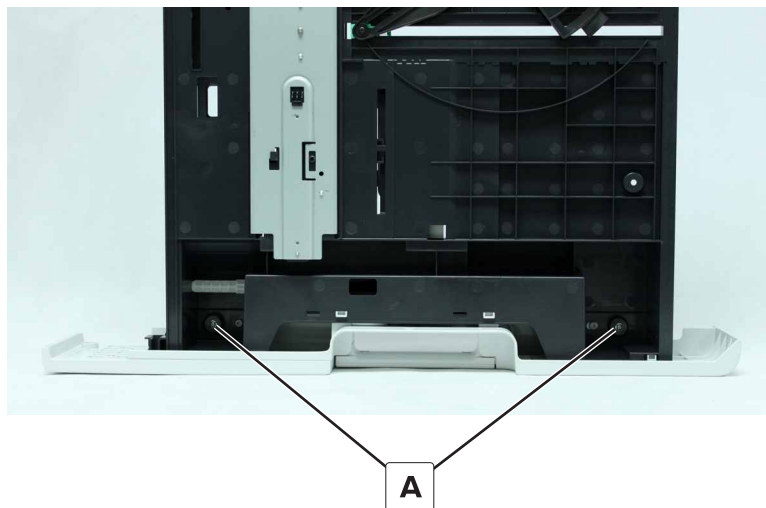


- 4** Raise the lift plate, move the length guide slightly under the lift plate, and then remove the guide.



Tray lock removal

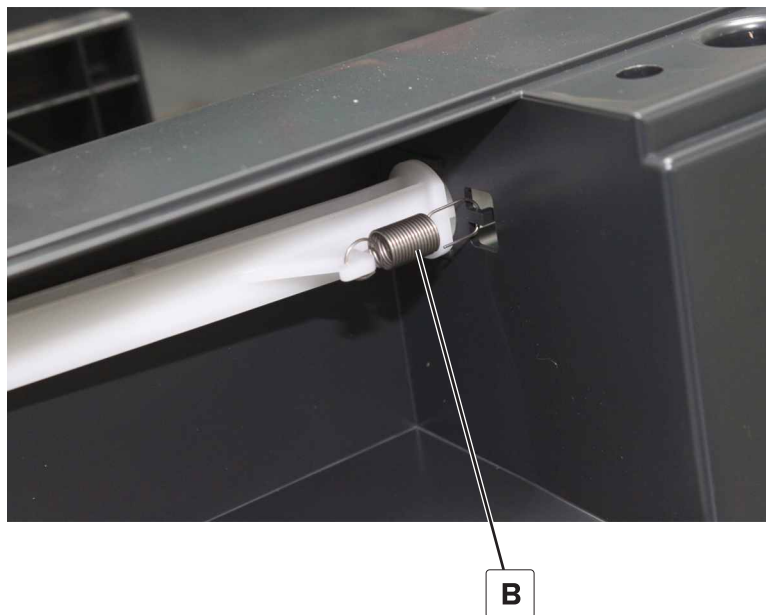
- 1 Remove the tray insert.
- 2 Remove the two screws (A).



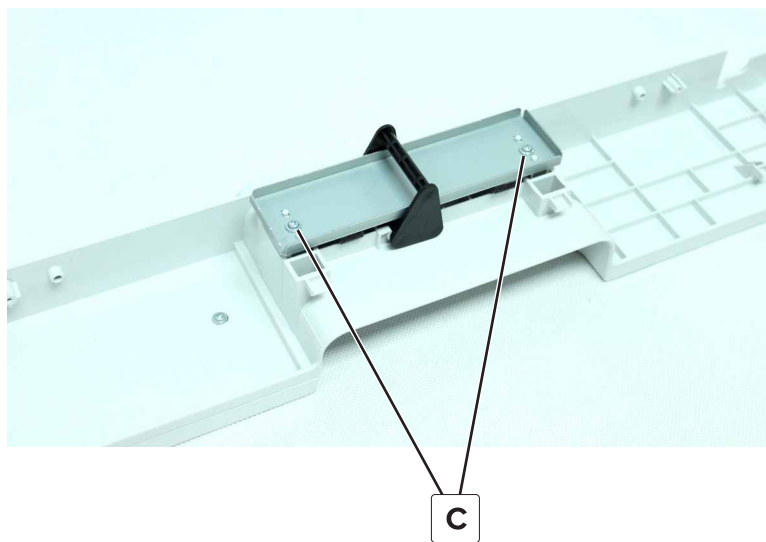
- 3 Remove the tray cover.



- 4** Disconnect the spring (B) from the tray, and then remove the shaft.



- 5** Remove the two screws (C), and then remove the plate.

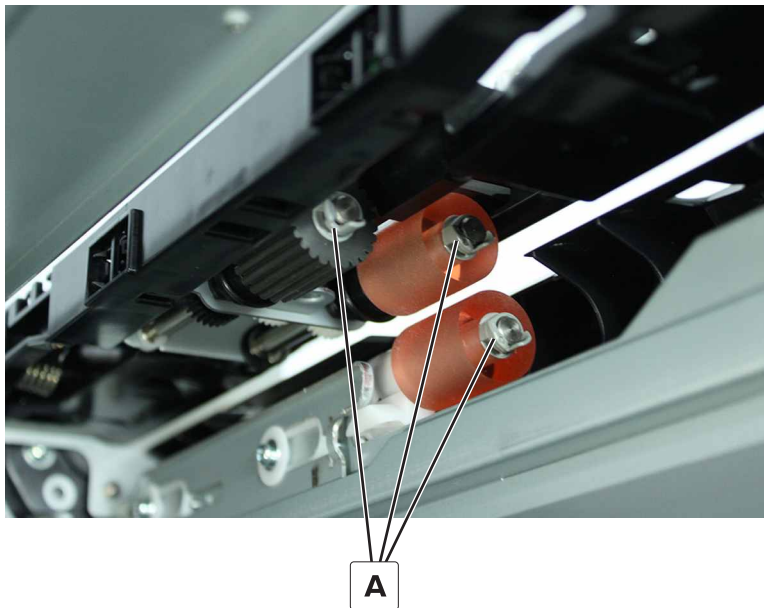


- 6** Align the notches on the link and cover, and then remove the link.



2 x 500-sheet tray rollers removal

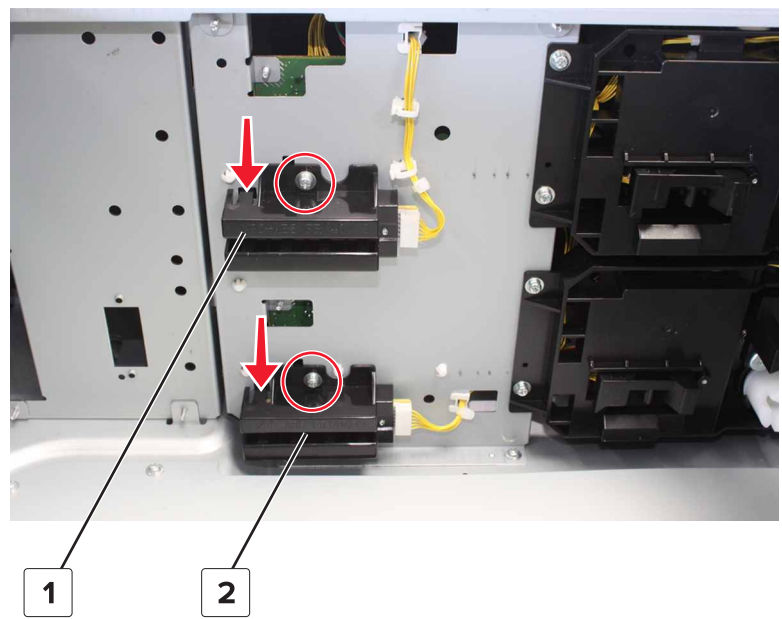
- 1** Remove the tray inserts.
- 2** Open the jam access door.
- 3** Release the three clips (A), and then remove the rollers.



Sensor (2 x 500-sheet tray paper length) removal

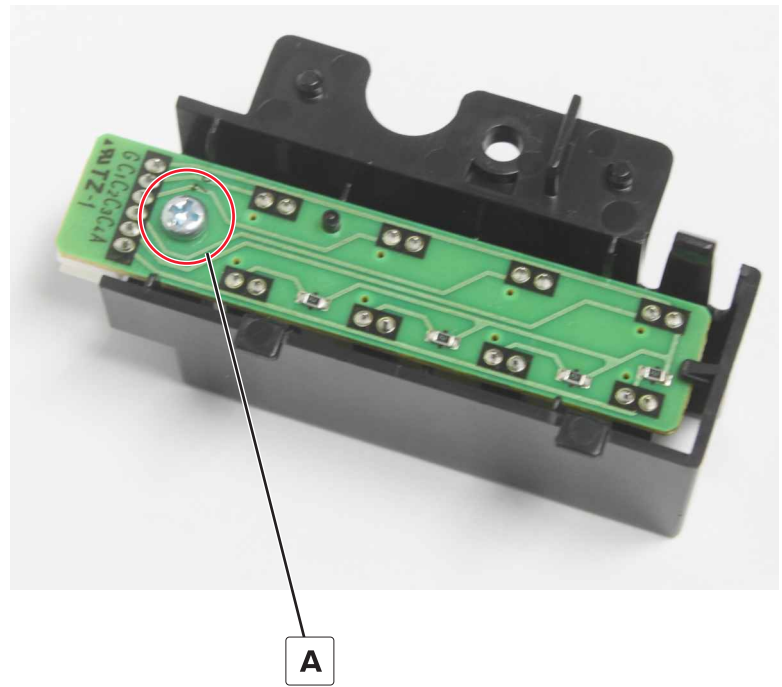
- 1** Remove the tray inserts.
- 2** Disconnect the cable from the sensor.

3 Remove the screw, press the latch, and then remove the sensor holder.



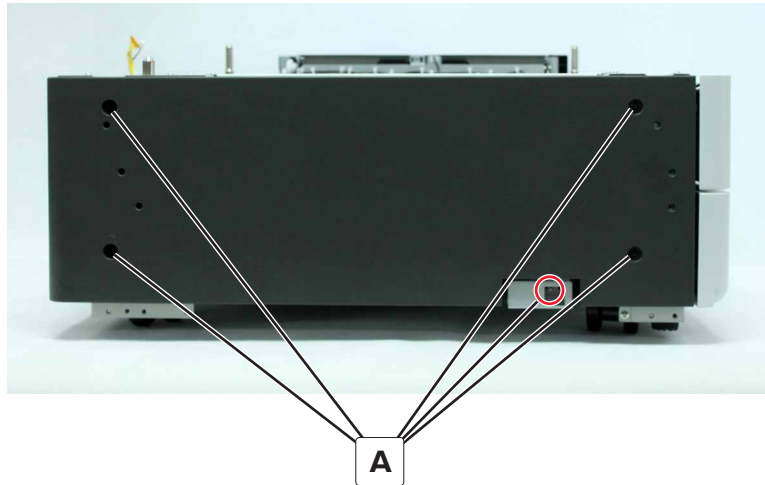
| # | Part |
|---|--|
| 1 | Sensor (2 x 500 sheet tray 3 paper length) |
| 2 | Sensor (2 x 500 sheet tray 4 paper length) |

4 Remove the screw (A), and then remove the sensor.



2 x 500-sheet tray left cover removal

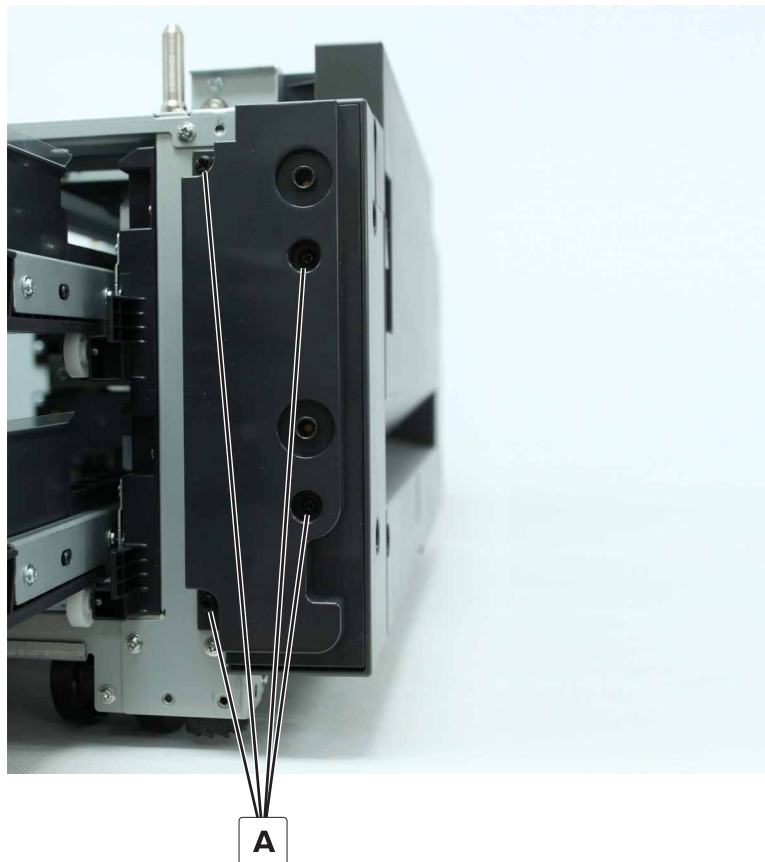
- 1 Remove the five screws (A).



- 2 Remove the cover.

2 x 500-sheet tray empty LED cover removal

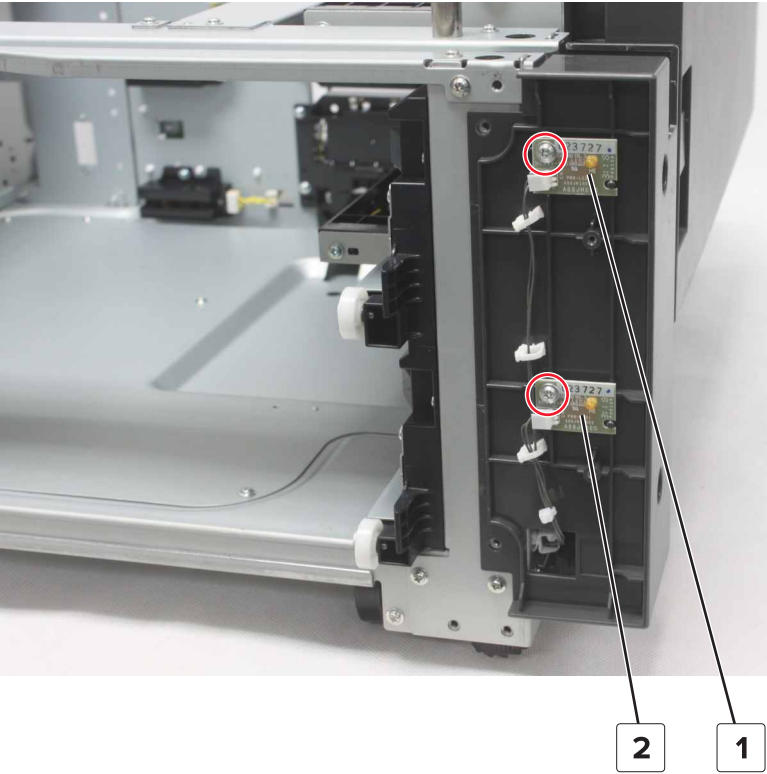
- 1 Remove the four screws (A).



2 Remove the cover.

2 x 500-sheet tray empty LED removal

- 1 Remove the tray empty LED cover. See [“2 x 500-sheet tray empty LED cover removal” on page 912.](#)
- 2 Disconnect the cable.
- 3 Remove the screw, and then remove the LED.

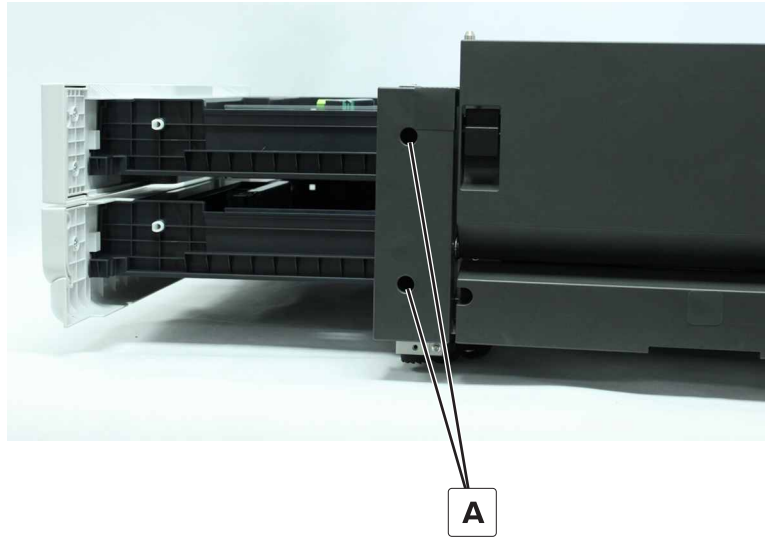


| # | Part |
|---|-----------------------|
| 1 | Tray 3 tray empty LED |
| 2 | Tray 4 tray empty LED |

2 x 500-sheet tray empty LED mount removal

- 1 Remove the tray empty LED cover. See [“2 x 500-sheet tray empty LED cover removal” on page 912.](#)
- 2 Remove the tray 3 and tray 4 empty LEDs. See [“2 x 500-sheet tray empty LED removal” on page 913.](#)

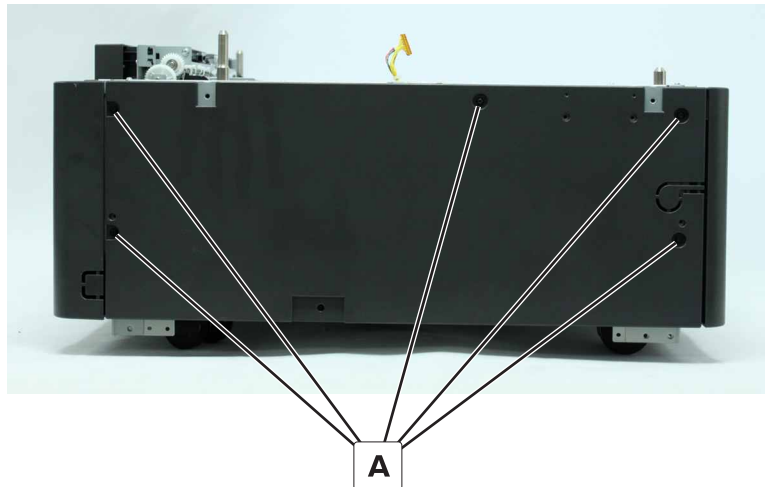
- 3** Remove the two screws (A), and then remove the cover.



- 4** Remove all the cable holders from the cover.

2 x 500-sheet tray rear cover removal

- 1** Remove the five screws (A).

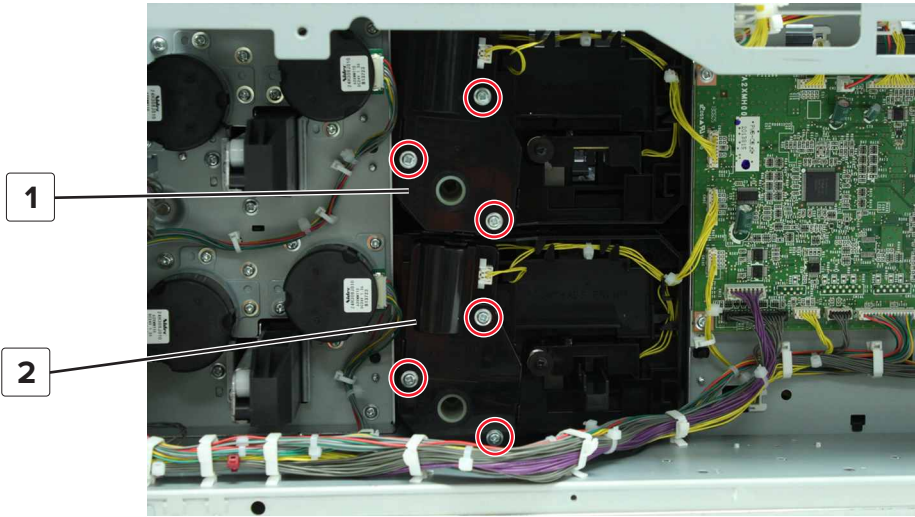


- 2** Remove the cover.

Motor (2 x 500-sheet tray lift) removal

- 1** Remove the rear cover. See [“2 x 500-sheet tray rear cover removal” on page 914](#).
- 2** Disconnect the cable from the motor.

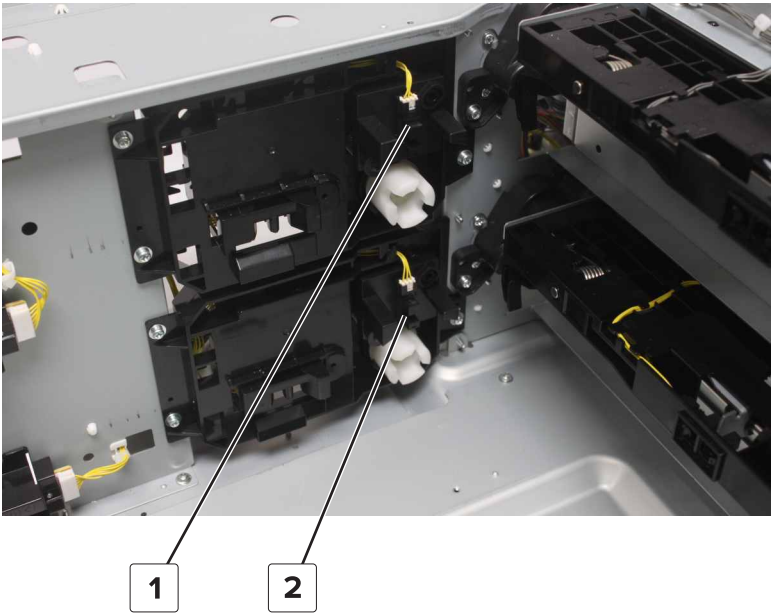
3 Remove the three screws, and then remove the motor.



| # | Part |
|---|-----------------------------------|
| 1 | Motor (2 x 500-sheet tray 3 lift) |
| 2 | Motor (2 x 500-sheet tray 4 lift) |

Sensor (2 x 500-sheet tray near empty) removal

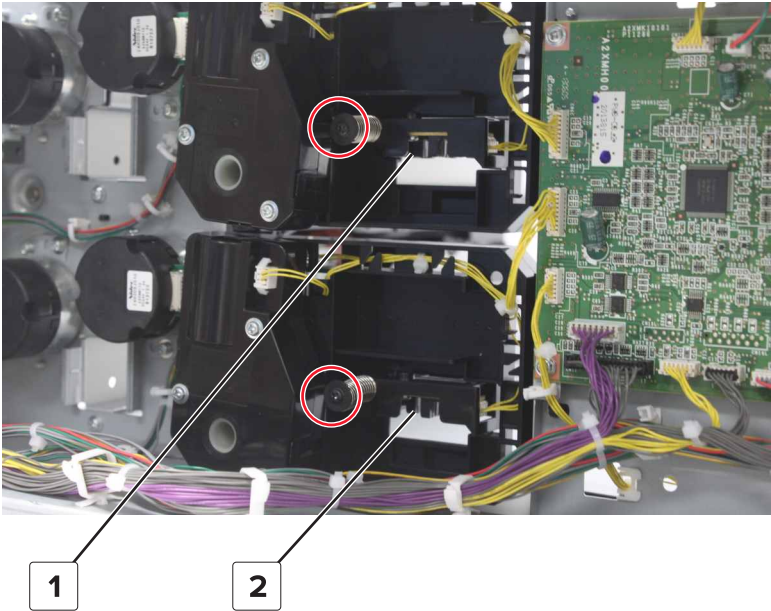
- 1 Remove the tray inserts.
- 2 Disconnect the cable from the sensor, and then remove the sensor.



| # | Part |
|---|--|
| 1 | Sensor (2 x 500-sheet tray 3 near empty) |
| 2 | Sensor (2 x 500-sheet tray 4 near empty) |

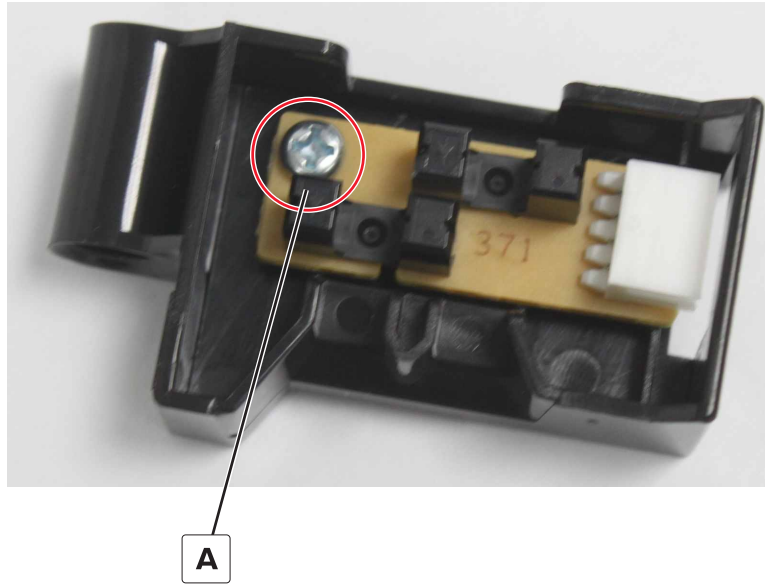
Sensor (2 x 500-sheet tray paper width) removal

- 1 Remove the rear cover. See [“2 x 500-sheet tray rear cover removal” on page 914.](#)
- 2 Remove the screw.
- 3 Disconnect the cable from the sensor, and then remove the sensor holder.



| # | Part |
|---|---|
| 1 | Sensor (2 x 500-sheet tray 3 paper width) |
| 2 | Sensor (2 x 500-sheet tray 4 paper width) |

- 4 Remove the screw (A), and then remove the sensor.

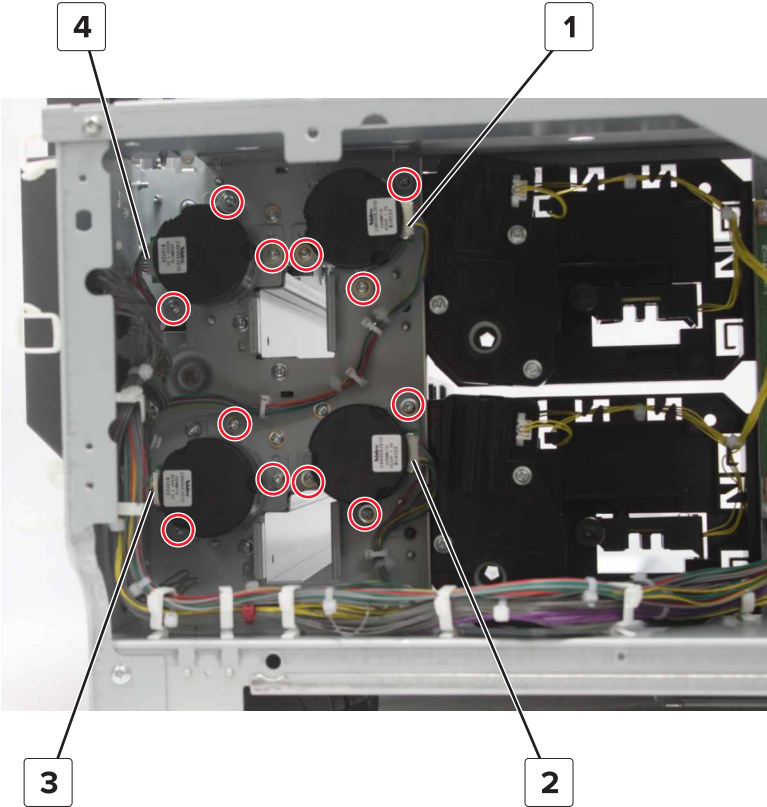


Installation note: Toggle the sensor to make sure that it bounces back.

2 x 500-sheet tray feed and transport motors removal

- 1 Remove the rear cover. See [“2 x 500-sheet tray rear cover removal” on page 914.](#)
- 2 Disconnect the cable from the motor.

3 Remove the three screws, and then remove the motor.

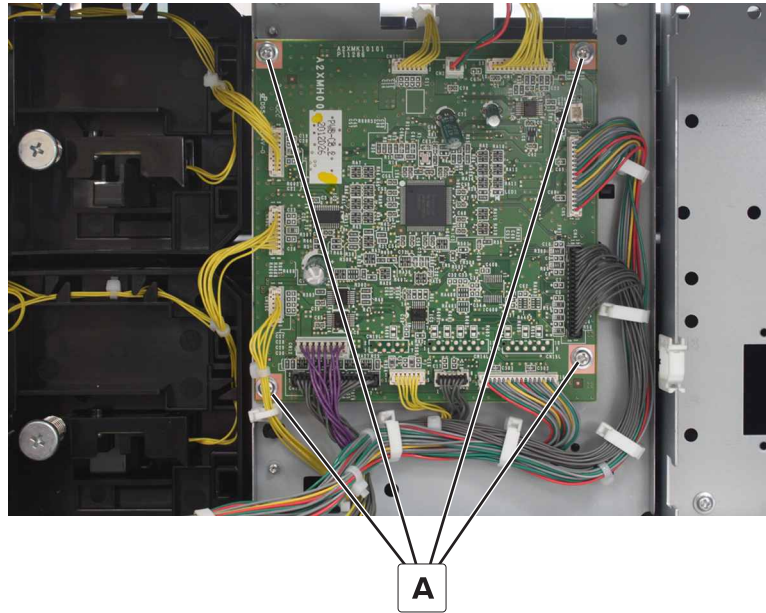


| # | Part |
|---|--|
| 1 | Motor (2 x 500-sheet tray 3 feed) |
| 2 | Motor (2 x 500-sheet tray 4 feed) |
| 3 | Motor (2 x 500-sheet tray 4 transport) |
| 4 | Motor (2 x 500-sheet tray 3 transport) |

2 x 500-sheet tray controller board removal

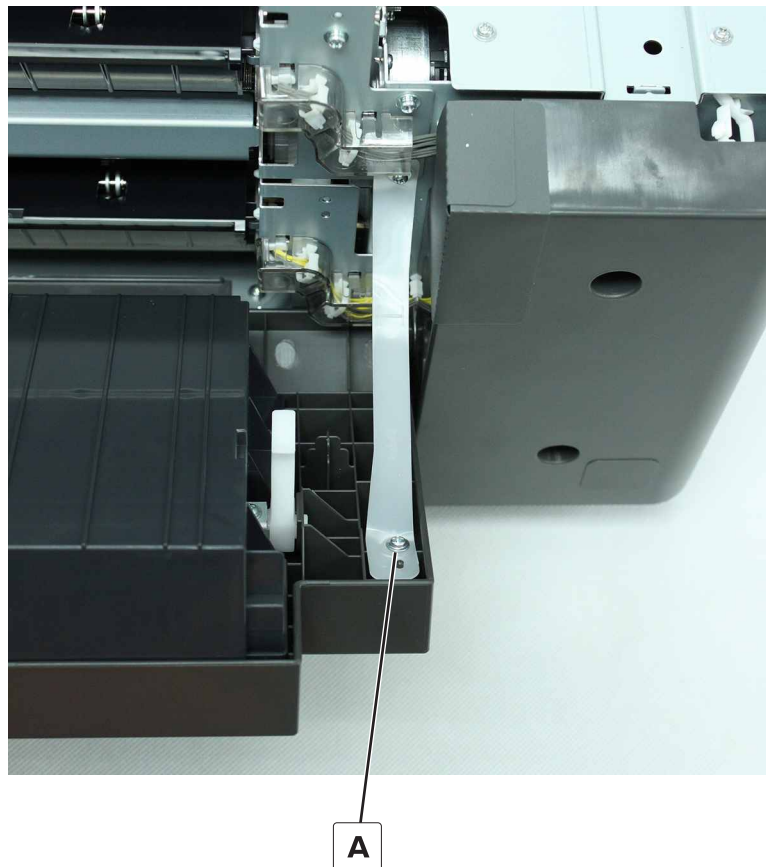
- 1** Remove the rear cover. See [“2 x 500-sheet tray rear cover removal” on page 914.](#)
- 2** Disconnect all the cables from the board.

- 3** Remove the four screws (A), and then remove the board.



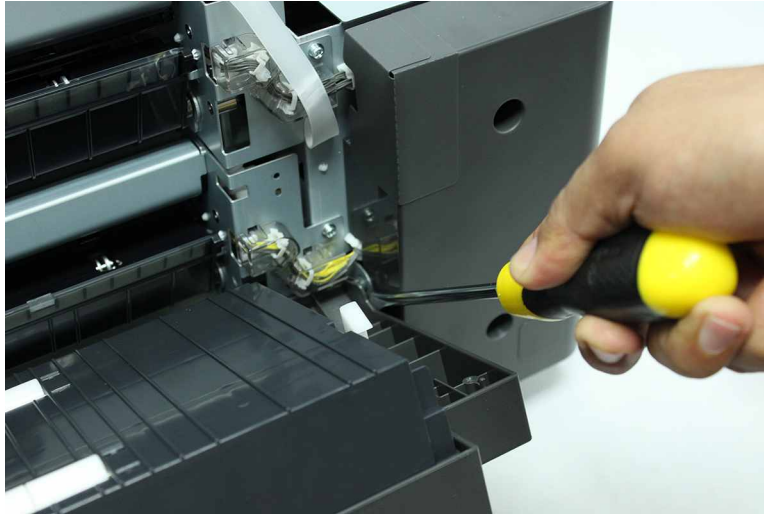
2 x 500-sheet tray jam access door removal

- 1** Open the door, and then remove the screw (A).



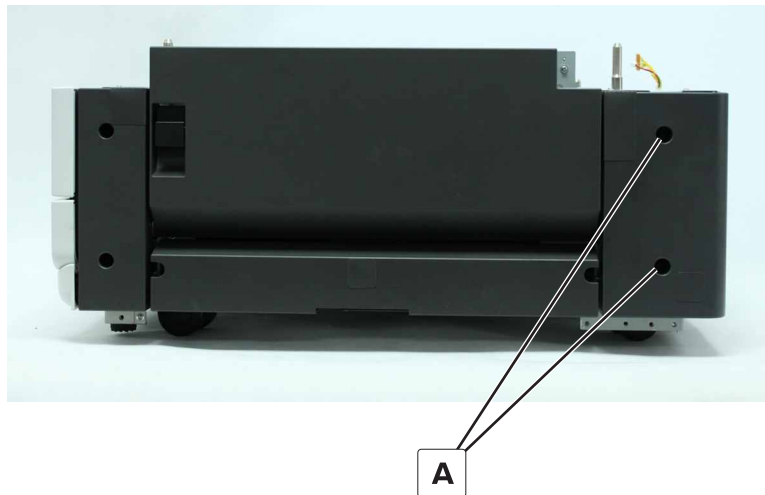
Parts removal

- 2** Pry to release the hinge, and then remove the cover.



2 x 500-sheet tray rear right cover removal

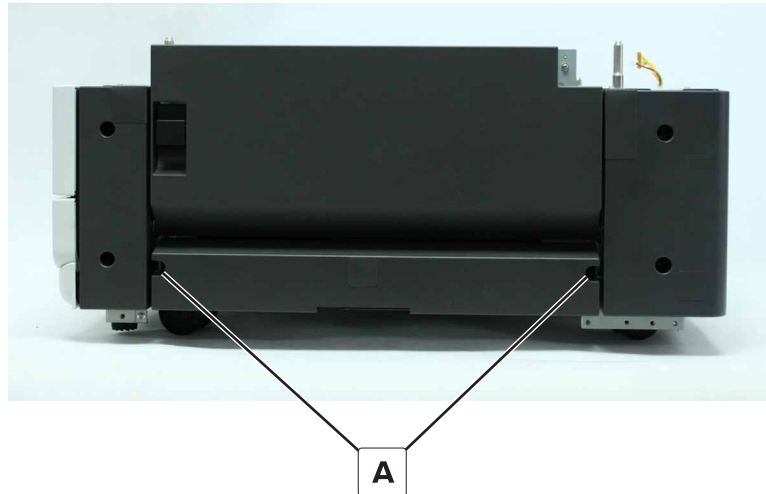
- 1** Remove the two screws (A).



- 2** Remove the cover.

2 x 500-sheet tray bottom right cover removal

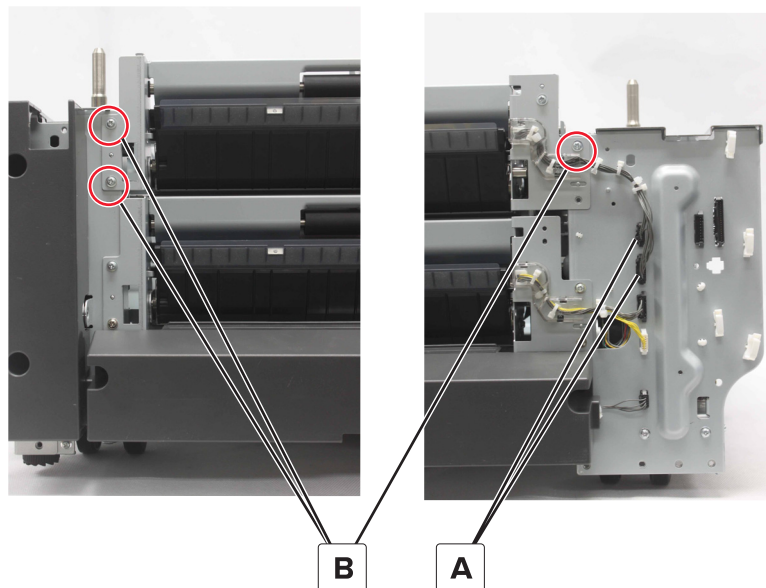
- 1 Remove the two screws (A).



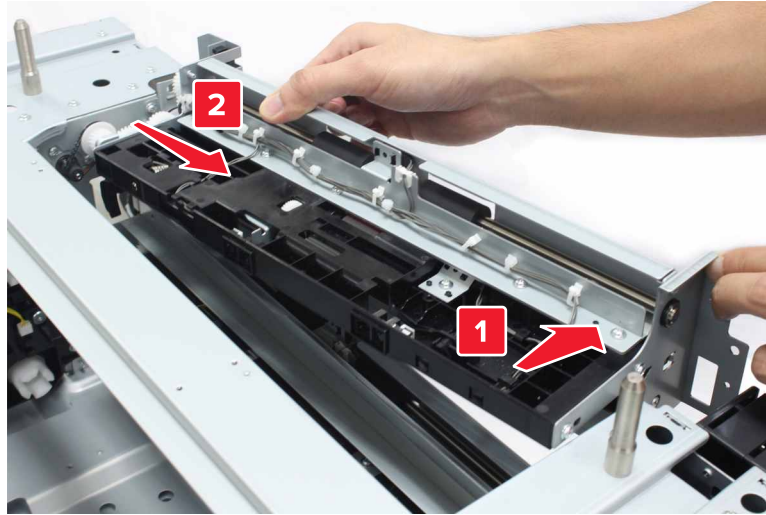
- 2 Remove the cover.

2 x 500-sheet tray 3 transport assembly removal

- 1 Remove the rear right cover. See [“2 x 500-sheet tray rear right cover removal” on page 920.](#)
- 2 Remove the jam access door. See [“2 x 500-sheet tray jam access door removal” on page 919.](#)
- 3 Disconnect the two cables (A), and then remove the three screws (B).

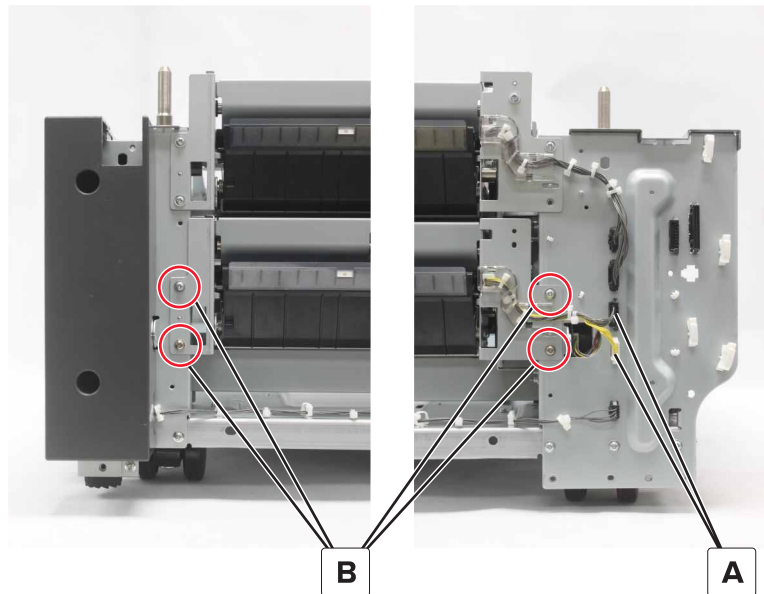


- 4 Remove the assembly.



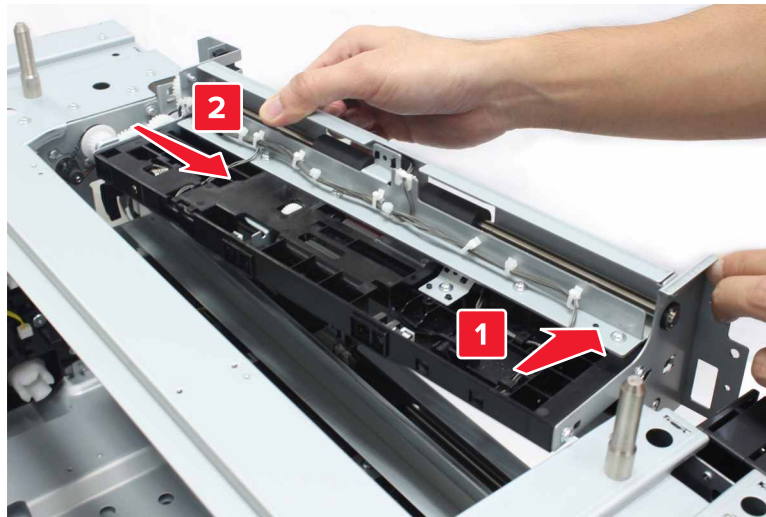
2 x 500-sheet tray 4 transport assembly removal

- 1 Remove the rear right cover. See [“2 x 500-sheet tray rear right cover removal” on page 920.](#)
- 2 Remove the jam access door. See [“2 x 500-sheet tray jam access door removal” on page 919.](#)
- 3 Remove the bottom right cover. See [“2 x 500-sheet tray bottom right cover removal” on page 921.](#)
- 4 Disconnect the two cables (A), and then remove the four screws (B).



- 5 Remove the assembly.

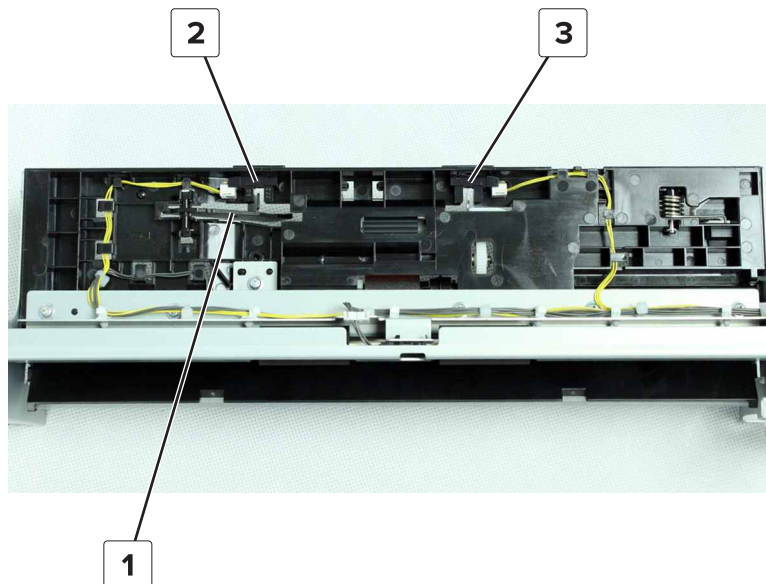
Note: The following illustration shows the tray 3 transport assembly. The same movements apply when removing the tray 4 transport assembly.

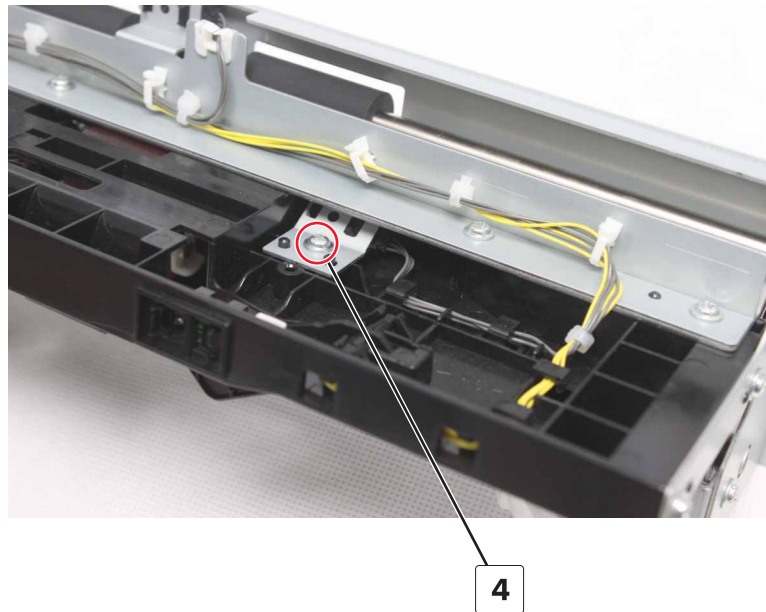


2 x 500-sheet tray transport assembly sensors removal

Note: The following procedure begins with the tray 4 transport assembly sensors. If you are removing the tray 3 transport assembly sensors, then go directly to step 5.

- 1 Remove the rear right cover. See [“2 x 500-sheet tray rear right cover removal” on page 920.](#)
- 2 Remove the jam access door. See [“2 x 500-sheet tray jam access door removal” on page 919.](#)
- 3 Remove the bottom right cover. See [“2 x 500-sheet tray bottom right cover removal” on page 921.](#)
- 4 Remove the tray 4 transport assembly. See [“2 x 500-sheet tray 4 transport assembly removal” on page 922.](#)
- 5 Remove the appropriate FRU.



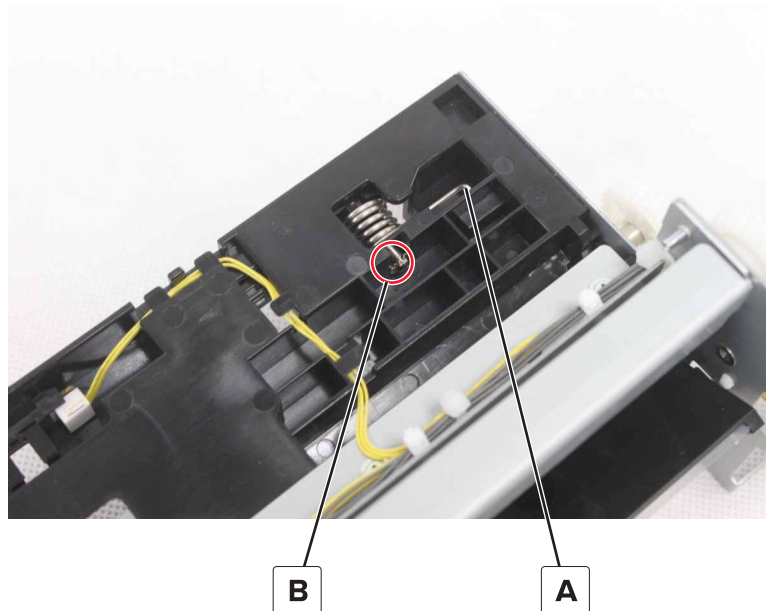


| # | Part |
|---|---|
| 1 | 2 x 500-sheet tray empty sensor actuator |
| 2 | Sensor (2 x 500-sheet tray empty) |
| 3 | Sensor (2 x 500-sheet tray lift plate level) |
| 4 | Sensor (2 x 500-sheet tray feed) Note: Remove the screw, remove the sensor bracket, and then remove the sensor. |

2 x 500-sheet tray tray set actuator removal

- 1 Remove the rear right cover. See [“2 x 500-sheet tray rear right cover removal” on page 920.](#)
- 2 Remove the jam access door. See [“2 x 500-sheet tray jam access door removal” on page 919.](#)
- 3 Remove the bottom right cover. See [“2 x 500-sheet tray bottom right cover removal” on page 921.](#)
- 4 Remove the tray 3 or tray 4 transport assembly. See [“2 x 500-sheet tray 3 transport assembly removal” on page 921](#) or [“2 x 500-sheet tray 4 transport assembly removal” on page 922.](#)
- 5 Release the spring (A).

- 6** Remove the clip (B).



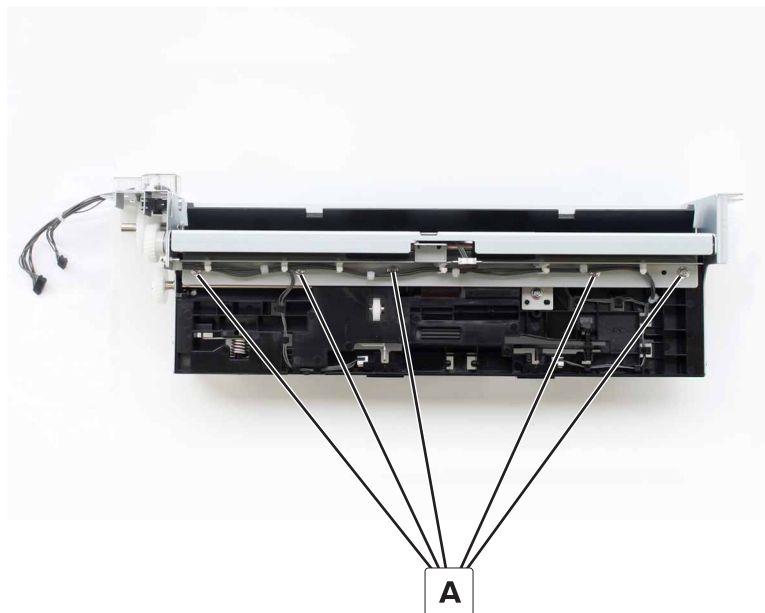
- 7** Remove the shaft, and then remove the actuator.

Sensor (2 x 500-sheet tray transport) removal

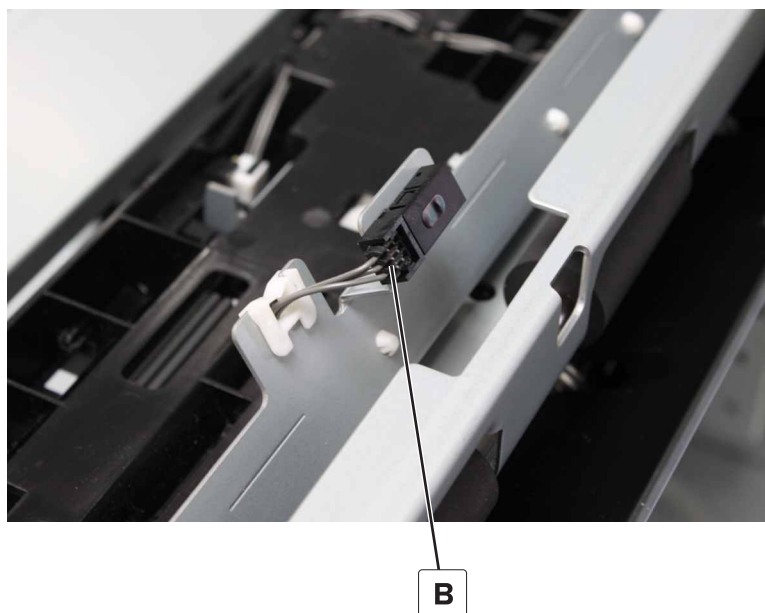
Note: The following procedure begins with the tray 4 sensor. If you are removing the tray 3 sensor, then go directly to step 5.

- 1** Remove the rear right cover. See [“2 x 500-sheet tray rear right cover removal” on page 920.](#)
- 2** Remove the jam access door. See [“2 x 500-sheet tray jam access door removal” on page 919.](#)
- 3** Remove the bottom right cover. See [“2 x 500-sheet tray bottom right cover removal” on page 921.](#)
- 4** Remove the tray 4 transport assembly. See [“2 x 500-sheet tray 4 transport assembly removal” on page 922.](#)

- 5** Remove the five screws (A).



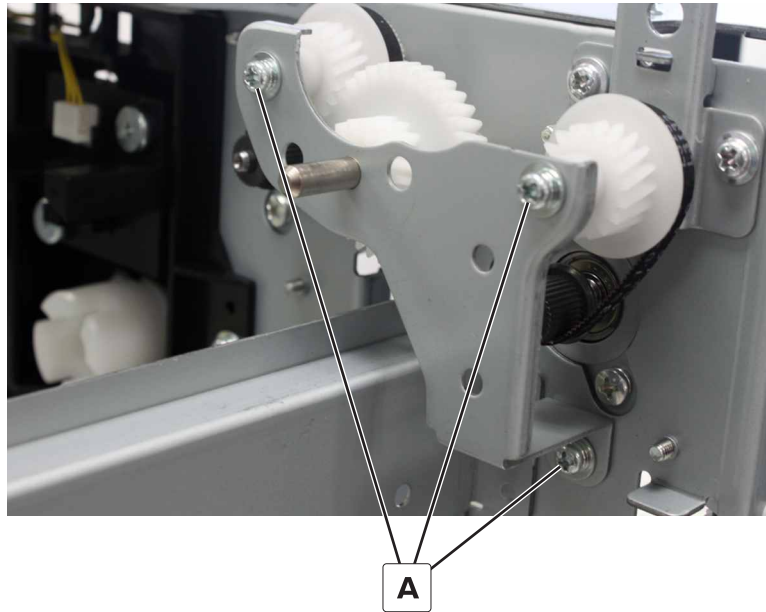
- 6** Disconnect the cable (B), and then remove the sensor.



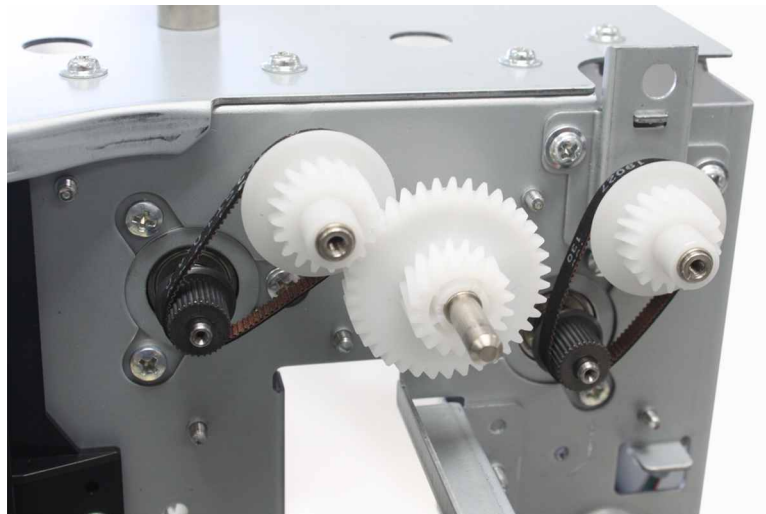
2 x 500-sheet tray 3 transport belts and gears removal

- 1** Remove the rear right cover. See [“2 x 500-sheet tray rear right cover removal” on page 920.](#)
- 2** Remove the jam access door. See [“2 x 500-sheet tray jam access door removal” on page 919.](#)
- 3** Remove the bottom right cover. See [“2 x 500-sheet tray bottom right cover removal” on page 921.](#)
- 4** Remove the tray 3 transport assembly. See [“2 x 500-sheet tray 3 transport assembly removal” on page 921.](#)

- 5 Remove the tray 4 transport assembly. See [“2 x 500-sheet tray 4 transport assembly removal” on page 922.](#)
- 6 Remove the three screws (A), and then remove the bracket.



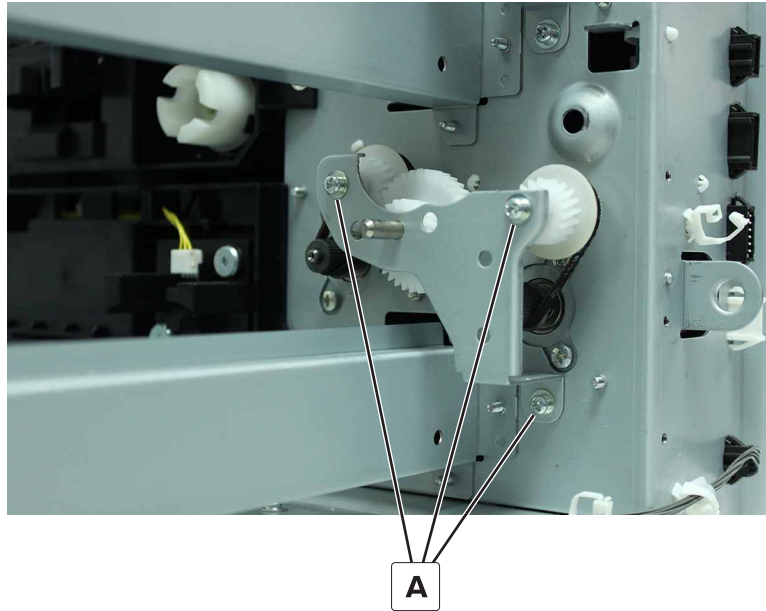
- 7 Remove the three gears and two belts.



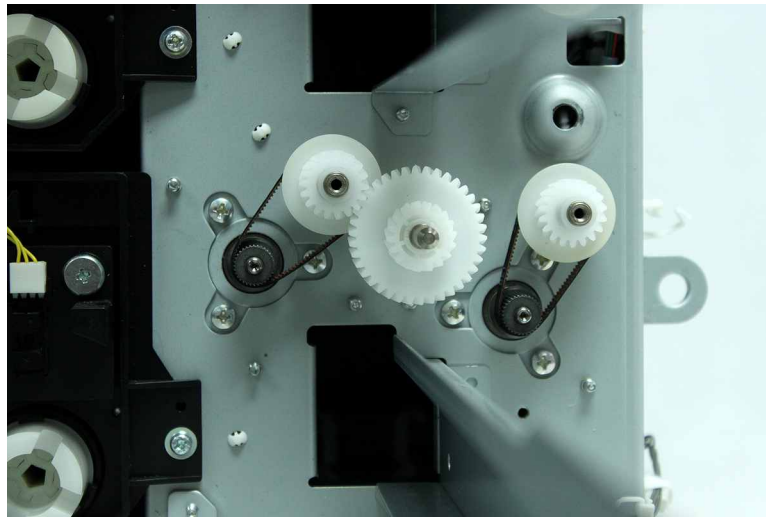
2 x 500-sheet tray 4 transport belts and gears removal

- 1 Remove the rear right cover. See [“2 x 500-sheet tray rear right cover removal” on page 920.](#)
- 2 Remove the jam access door. See [“2 x 500-sheet tray jam access door removal” on page 919.](#)
- 3 Remove the bottom right cover. See [“2 x 500-sheet tray bottom right cover removal” on page 921.](#)
- 4 Remove the tray 4 transport assembly. See [“2 x 500-sheet tray 4 transport assembly removal” on page 922.](#)

- 5** Remove the three screws (A), and then remove the bracket.



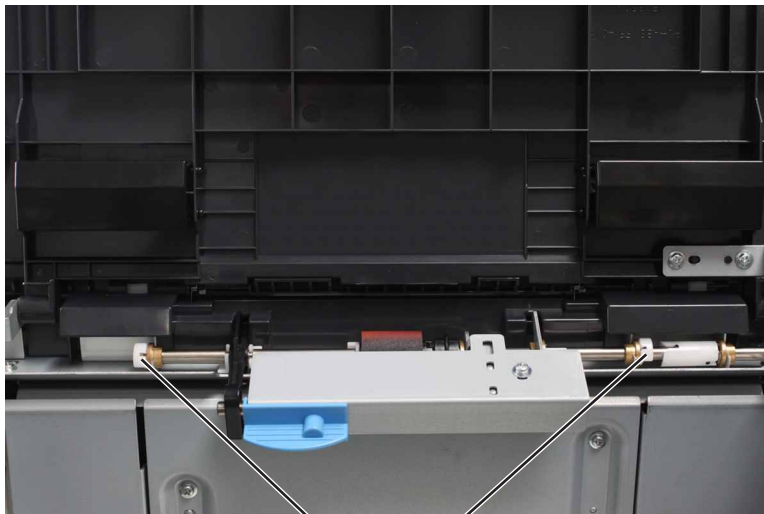
- 6** Remove the three gears and two belts.



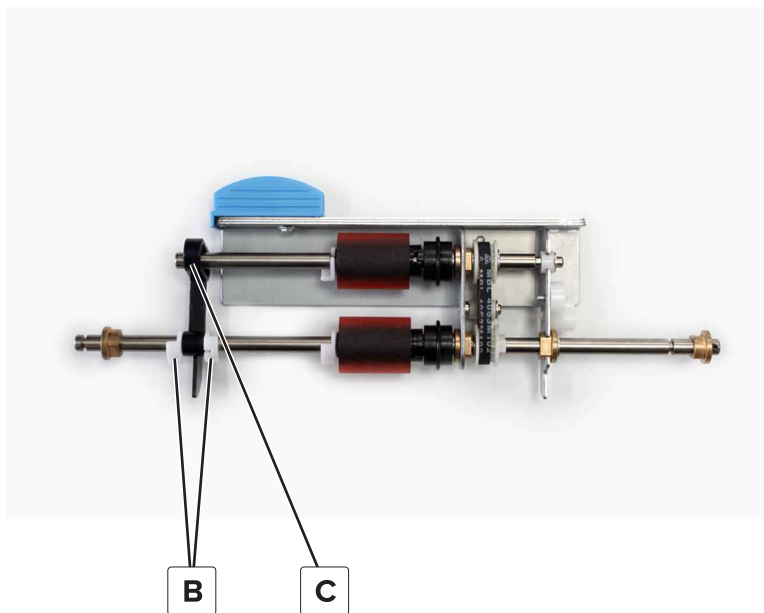
3000-sheet tray removals

3000-sheet tray rollers removal

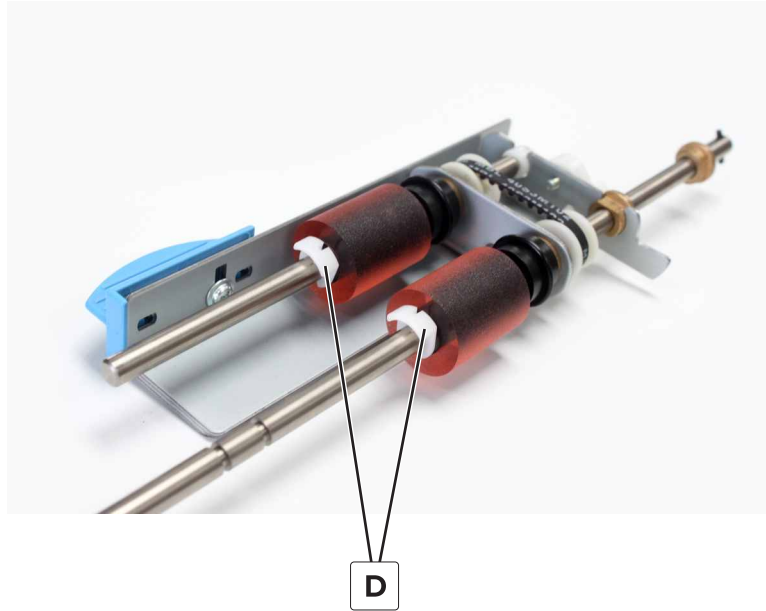
- 1 Remove the two clips (A), and then remove the bushings.



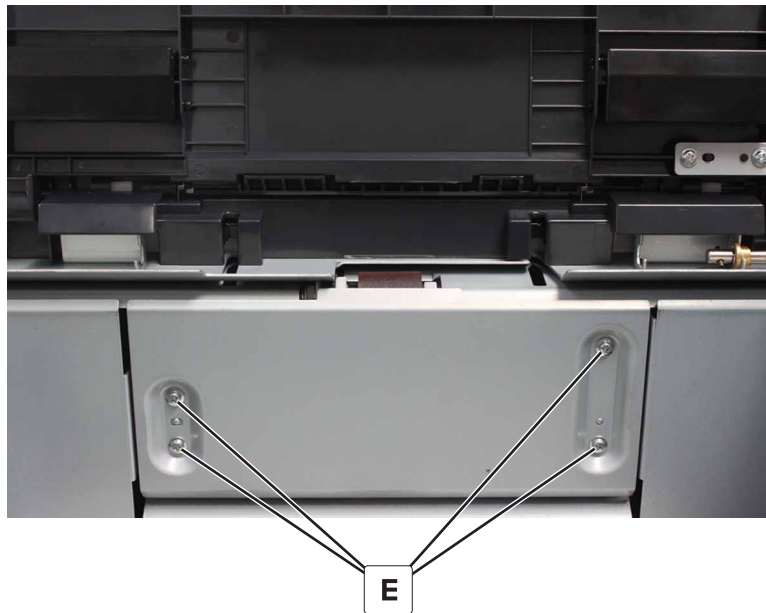
- 2 Remove the two clips (B), and then remove the actuator (C).



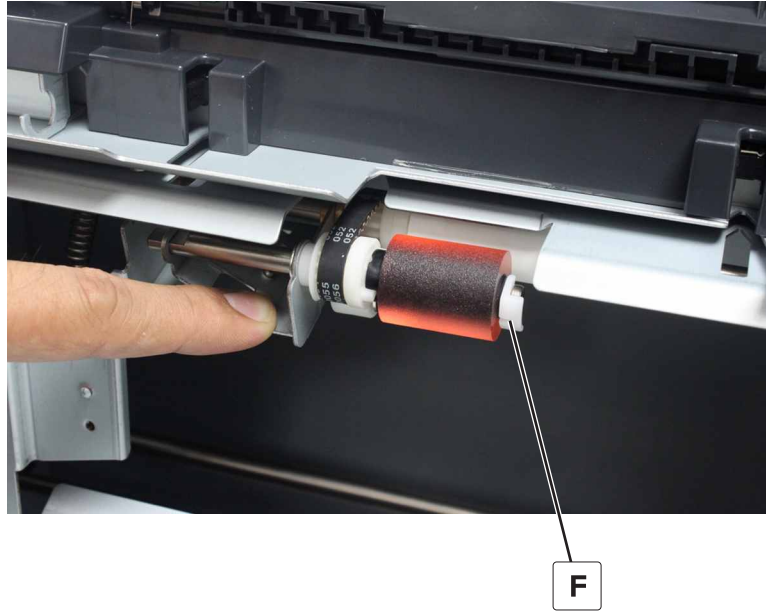
- 3** Remove the two clips (D), and then remove the feed and pick rollers.



- 4** Remove the four screws (E), and then remove the cover.

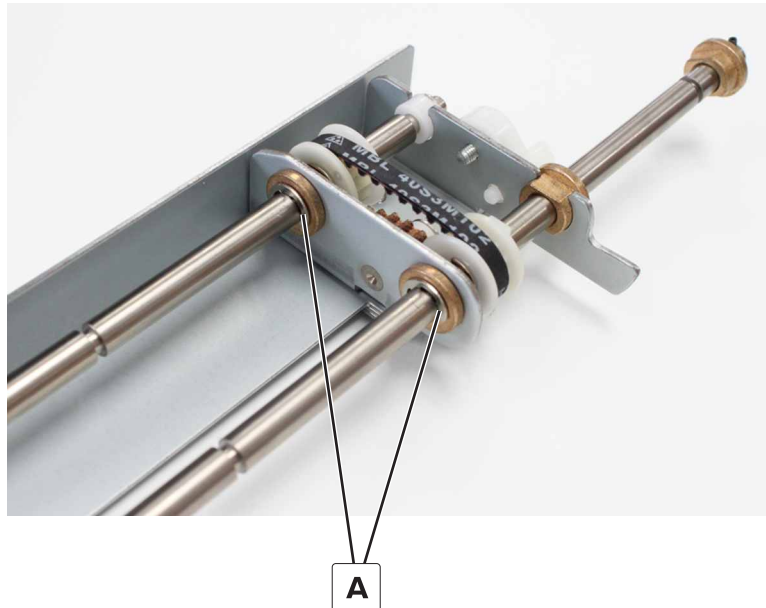


- 5 Remove the clip (F), and then remove the roller.

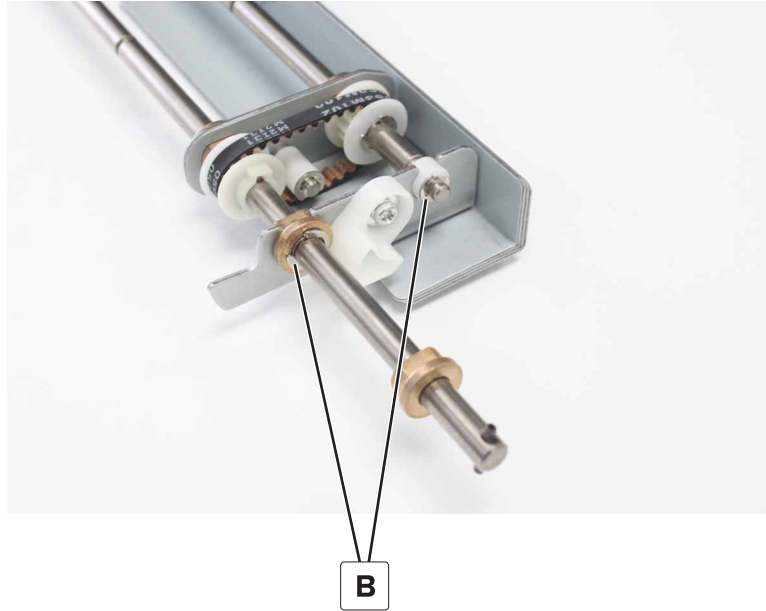


3000-sheet tray feed and pick belt removal

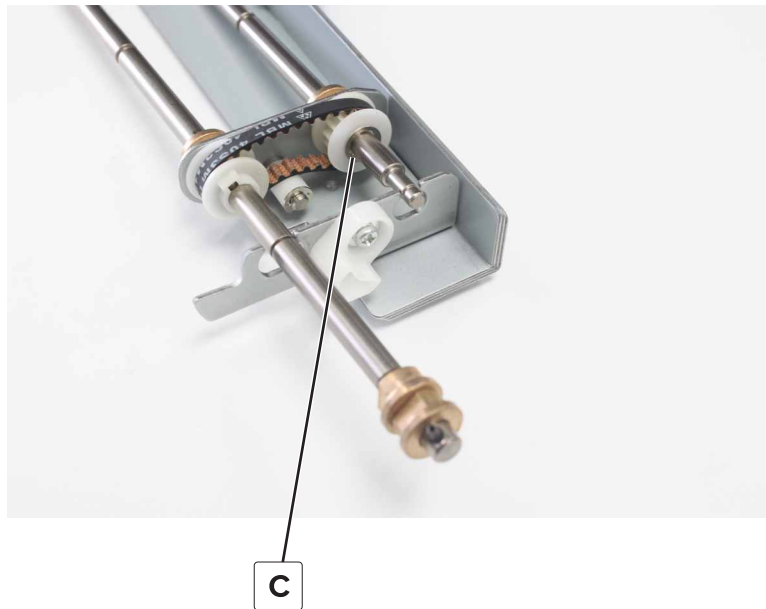
- 1 Remove the feed and pick rollers. See [“3000-sheet tray rollers removal” on page 929](#).
- 2 Remove the two clips (A), and then remove the bushings.



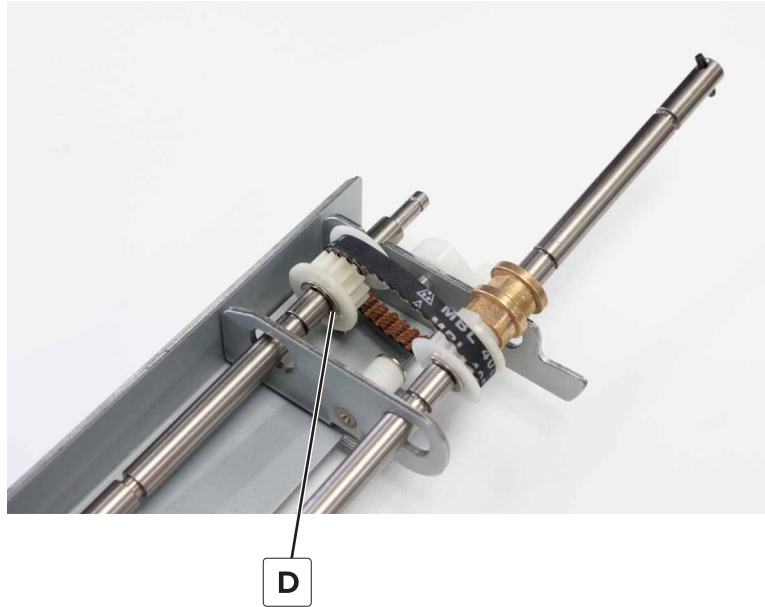
- 3** Remove the two clips (B), and then remove the two bushings.



- 4** Remove the clip (C).

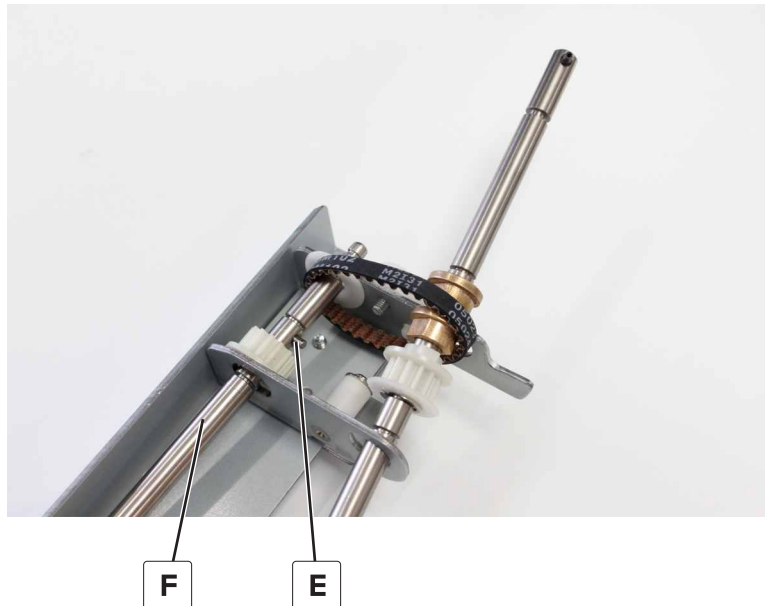


- 5** Remove the clip (D).



- 6** Remove the pin (E).

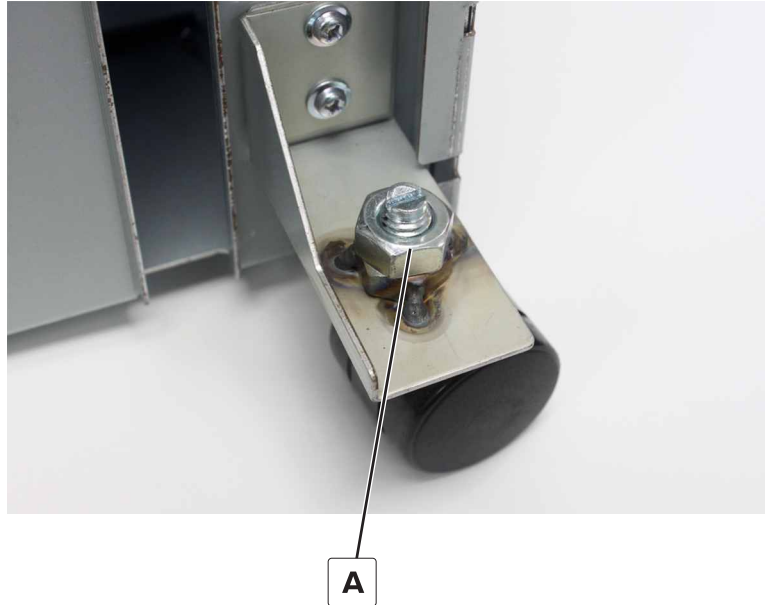
- 7** Pull out the shaft (F), and then remove the belt.



3000-sheet tray caster wheel removal

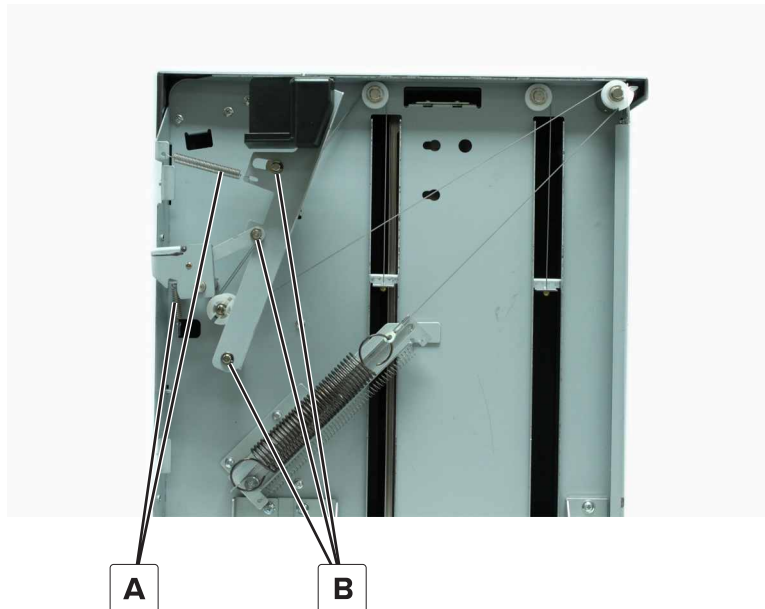
- 1** Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2** Depending on the caster, remove the front cover or the rear cover. See [“3000-sheet tray front cover removal” on page 936](#) or [“3000-sheet tray rear cover removal” on page 937](#).

- 3** Remove the nut (A), and then remove the caster.

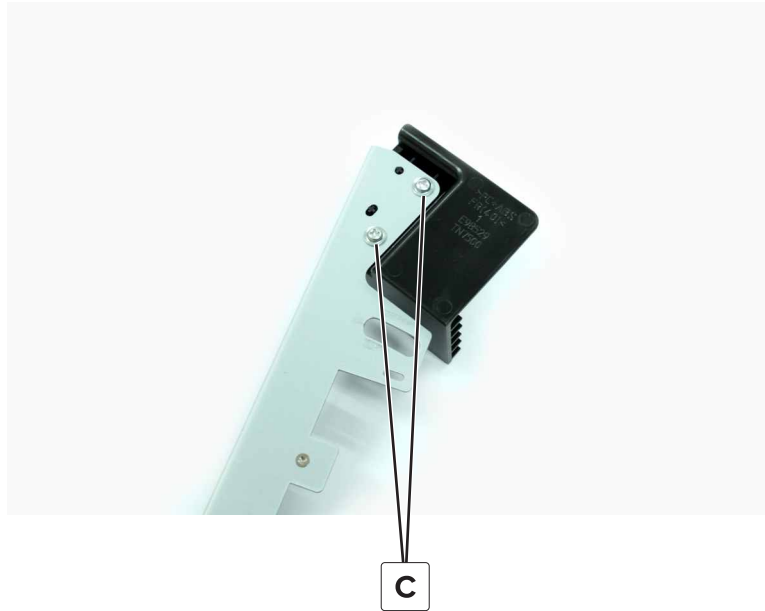


3000-sheet tray release handle removal

- 1** Remove the right cover. See [“3000-sheet tray right cover removal” on page 936.](#)
- 2** Remove the front cover. See [“3000-sheet tray front cover removal” on page 936.](#)
- 3** Disconnect the two springs (A).
- 4** Remove the three clips (B), and then remove the link.

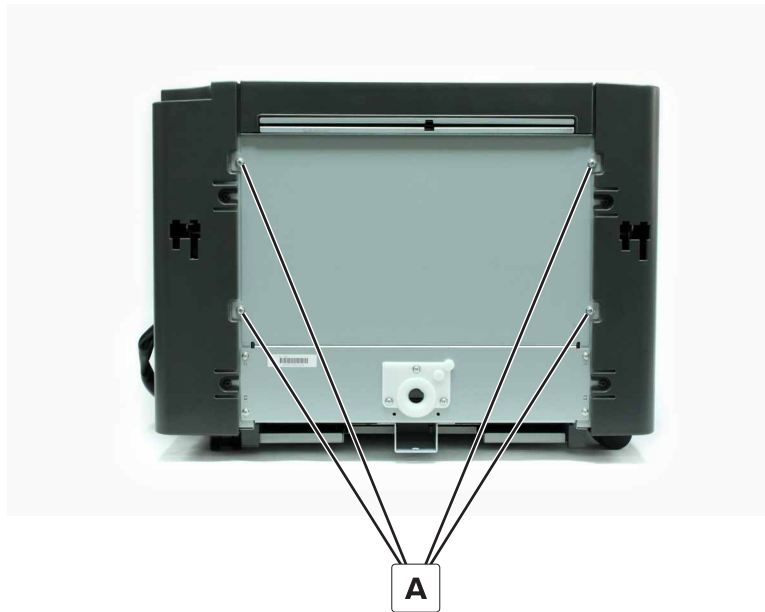


- 5** Remove the two screws (C), and then remove the handle.



3000-sheet tray left cover removal

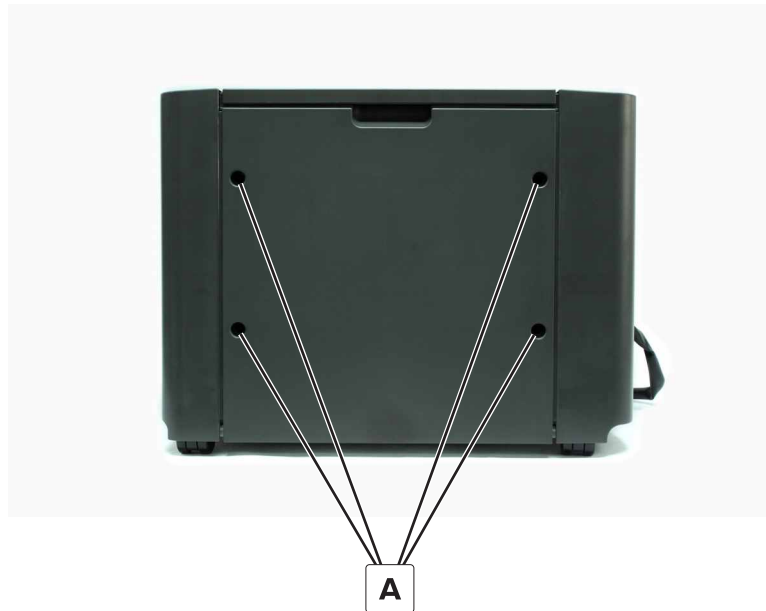
- 1** Remove the four screws (A).



- 2** Remove the cover.

3000-sheet tray right cover removal

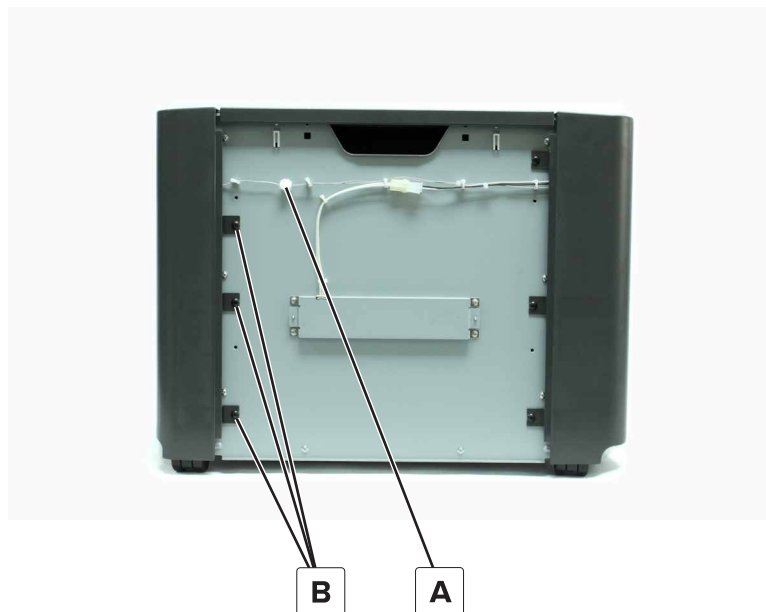
- 1 Remove the four screws (A).



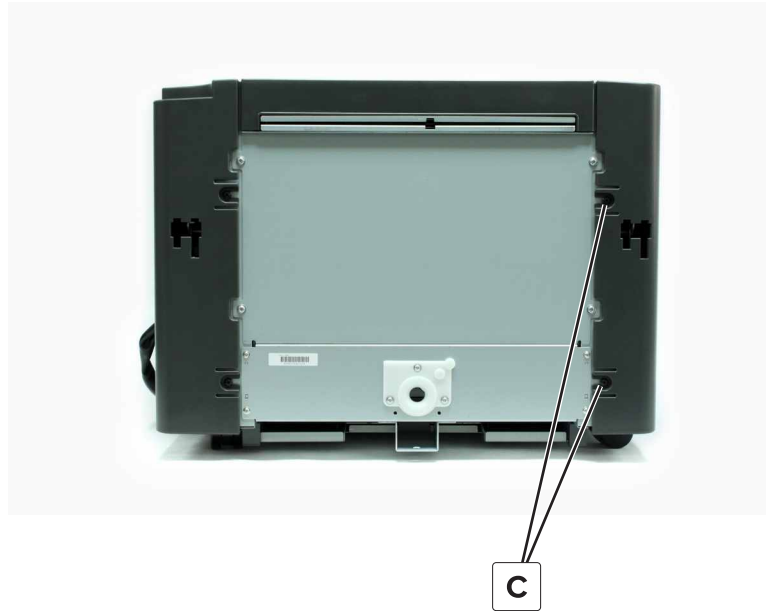
- 2 Remove the cover.

3000-sheet tray front cover removal

- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Disconnect the cable (A), and then remove it from the cable clips.
- 3 Remove the three screws (B).

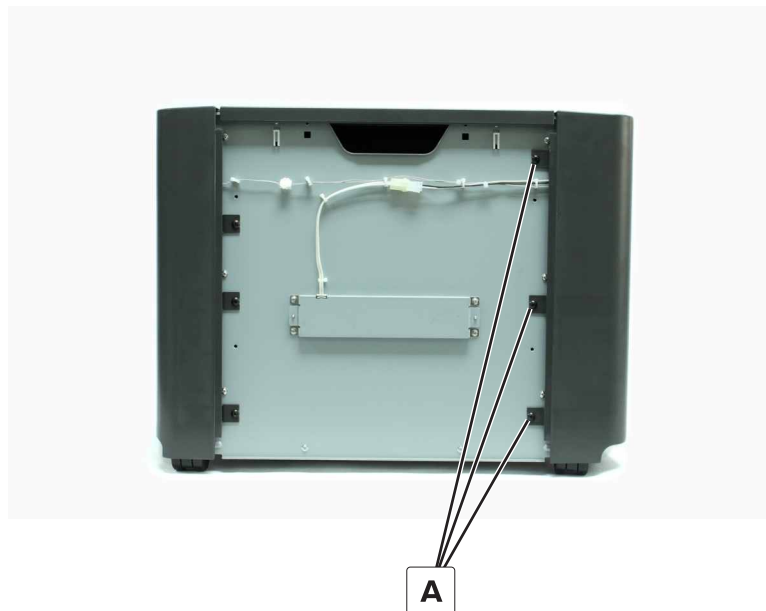


- 4 Remove the two screws (C), and then remove the cover.

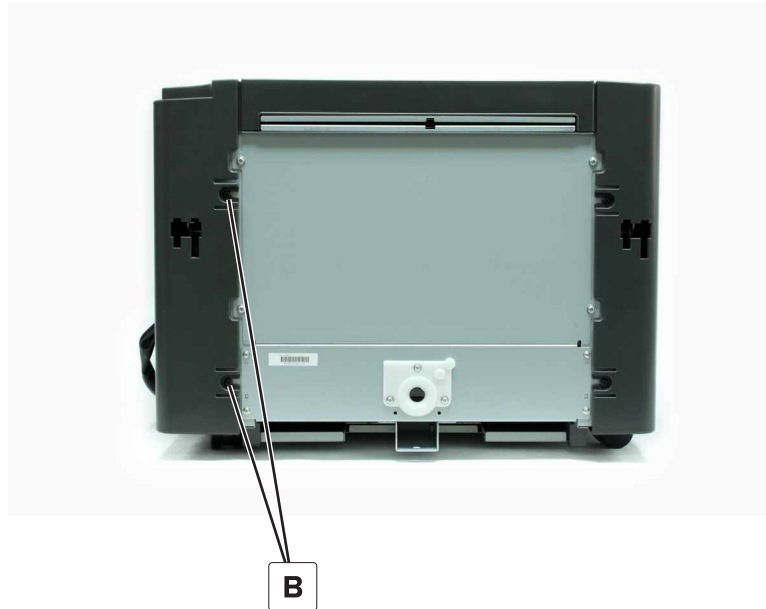


3000-sheet tray rear cover removal

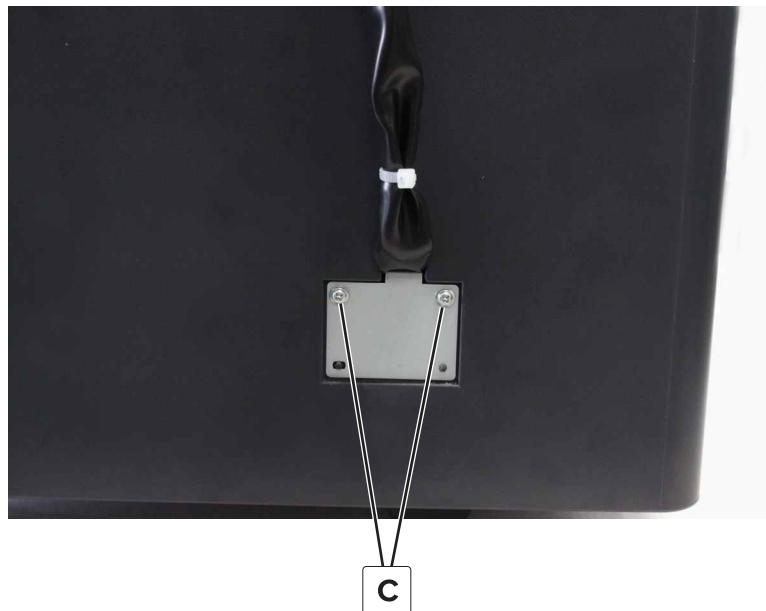
- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the three screws (A).



- 3** Remove the two screws (B).



- 4** Remove the two screws (C).

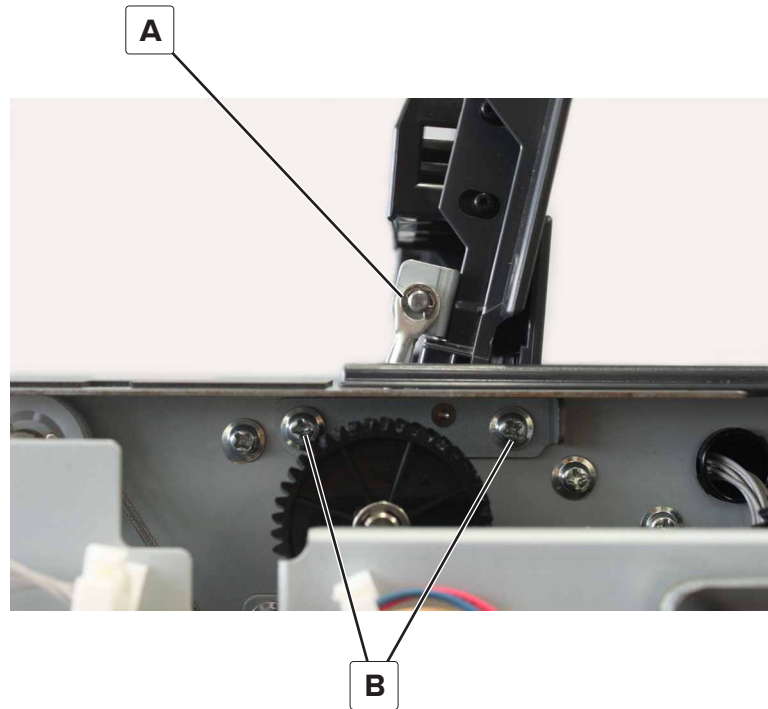


- 5** Remove the plate, and then remove the cover.

3000-sheet tray door removal

- 1** Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2** Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3** Remove the clip (A), and then disconnect the cable.

- 4** Remove the two screws (B), and then remove the bracket.

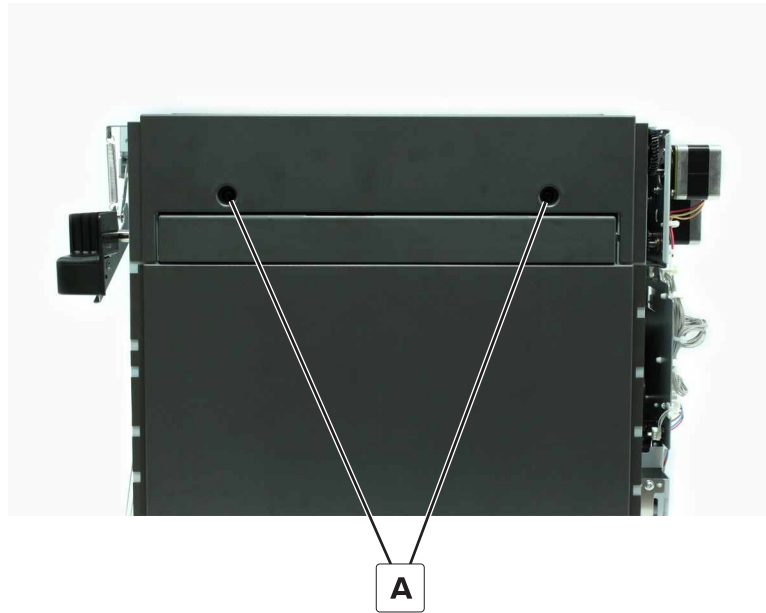


- 5** Remove the door.

3000-sheet tray left top cover removal

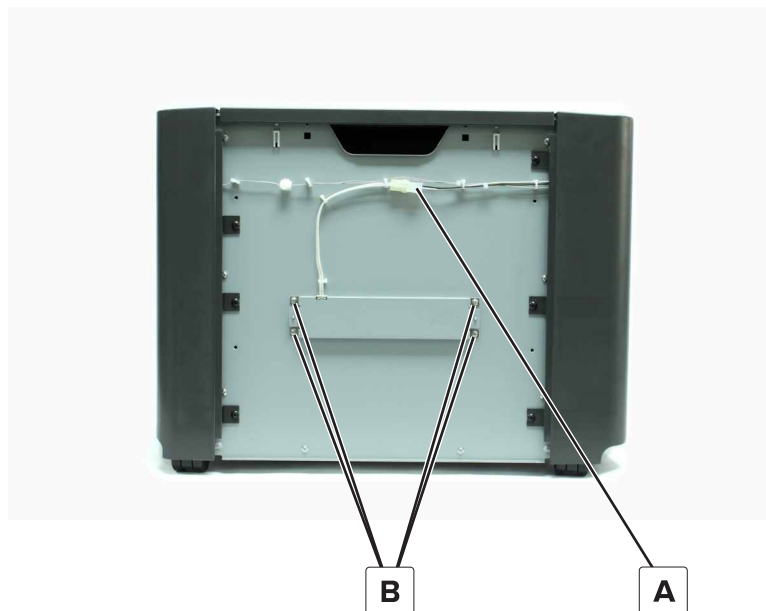
- 1** Remove the right cover. See [“3000-sheet tray right cover removal” on page 936.](#)
- 2** Remove the front cover. See [“3000-sheet tray front cover removal” on page 936.](#)
- 3** Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937.](#)

- 4** Remove the two screws (A), and then remove the cover.



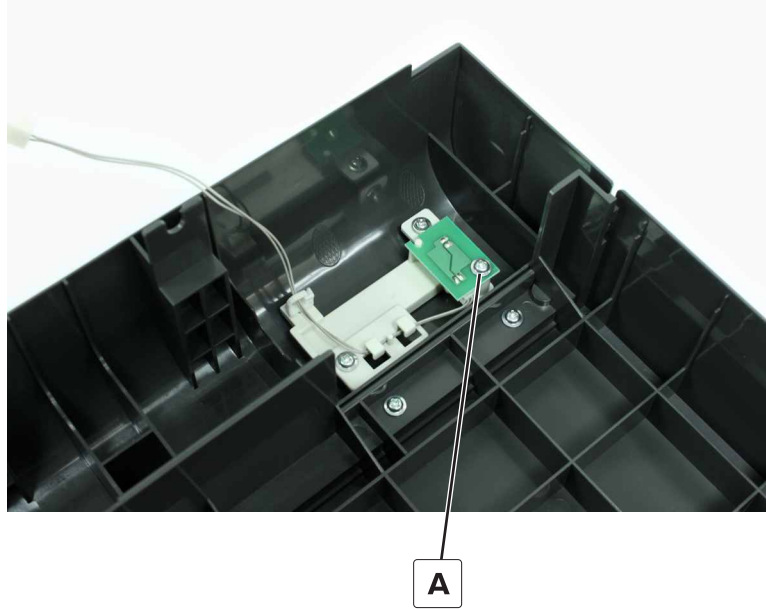
Dehumidifier removal

- 1** Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2** Disconnect the cable (A).
- 3** Remove the four screws (B), and then remove the dehumidifier.



3000-sheet tray empty LED removal

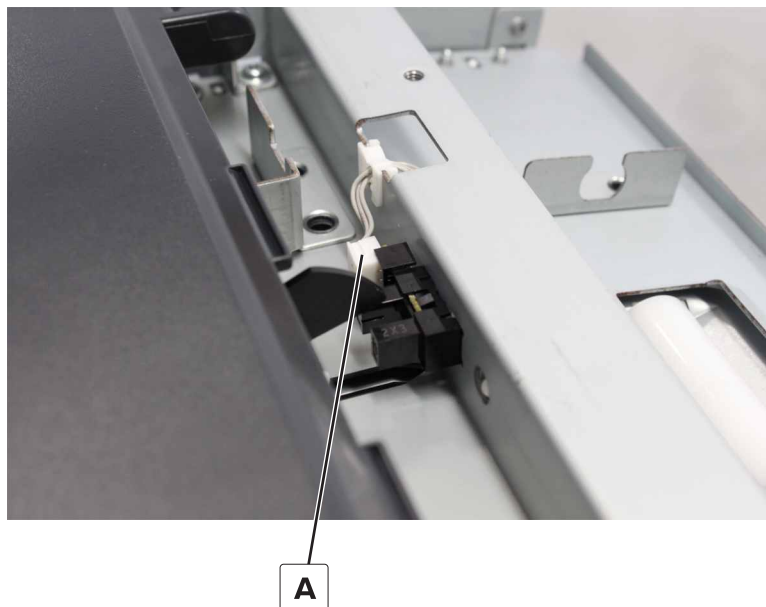
- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the front cover. See [“3000-sheet tray front cover removal” on page 936](#).
- 3 Remove the screw (A), and then remove the LED.



Sensor (3000-sheet tray empty) removal

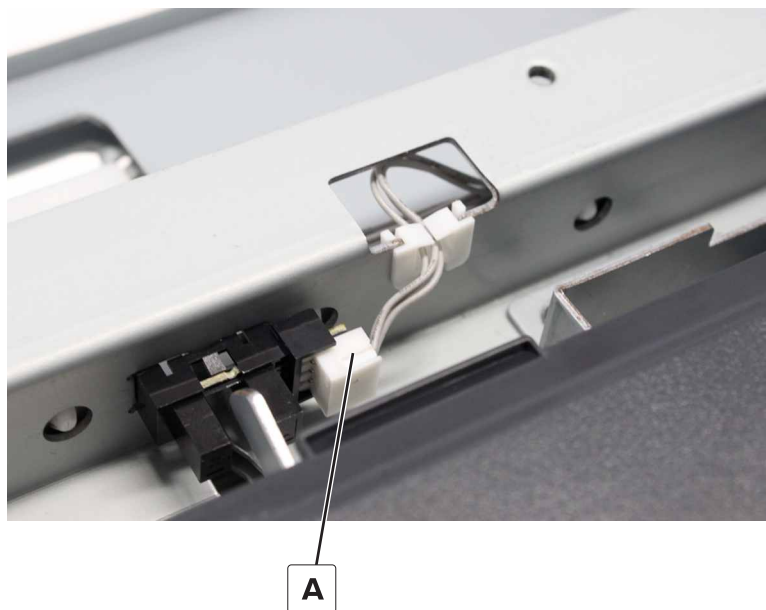
- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3 Remove the left top cover. See [“3000-sheet tray left top cover removal” on page 939](#).

- 4 Disconnect the cable (A), and then remove the sensor.



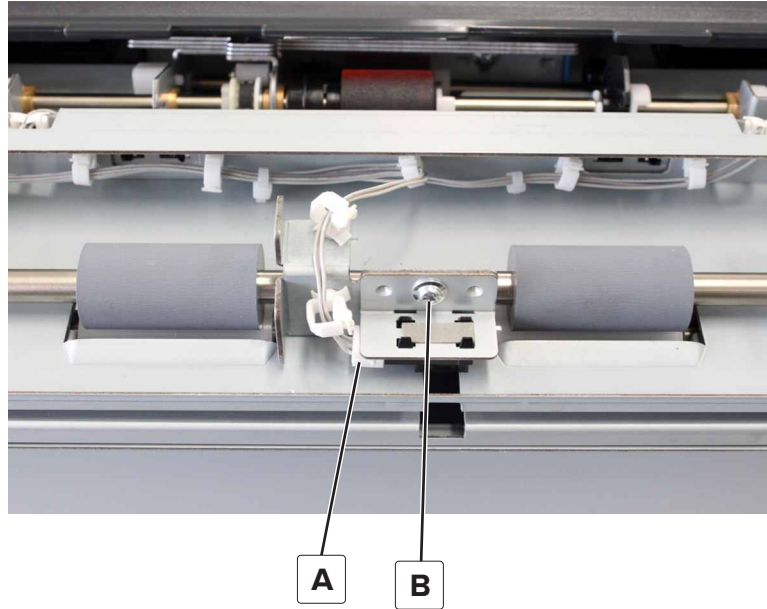
Sensor (3000-sheet tray elevator level) removal

- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3 Remove the left top cover. See [“3000-sheet tray left top cover removal” on page 939](#).
- 4 Disconnect the cable (A), and then remove the sensor.

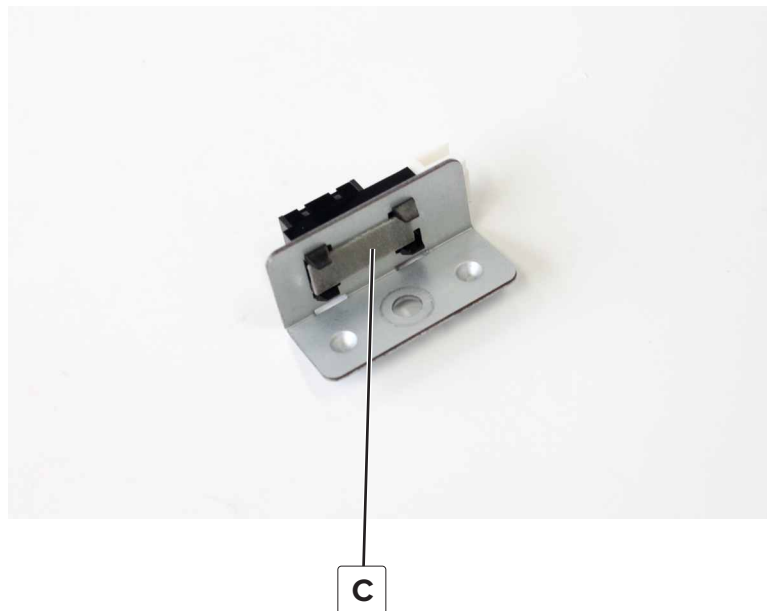


Sensor (3000-sheet tray feed) removal

- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3 Remove the front cover. See [“3000-sheet tray front cover removal” on page 936](#).
- 4 Remove the left top cover. See [“3000-sheet tray left top cover removal” on page 939](#).
- 5 Disconnect the cable (A).
- 6 Remove the screw (B), and then remove the bracket.

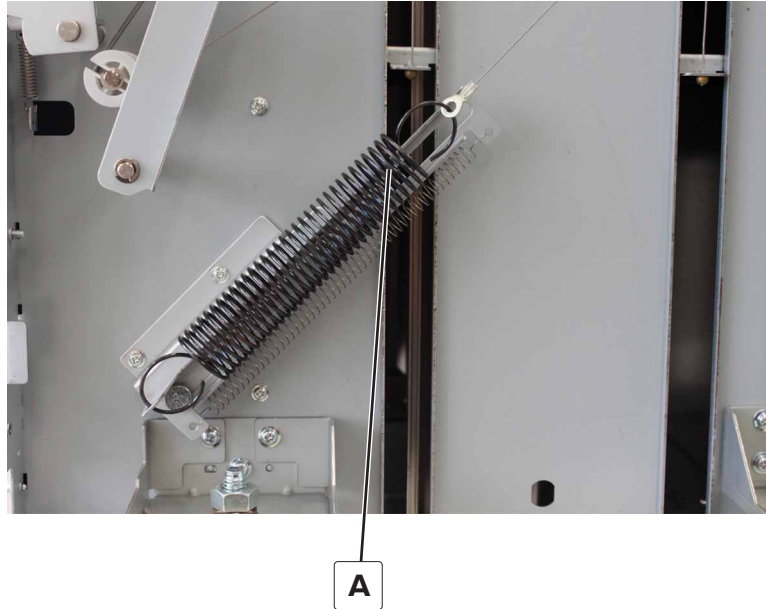


- 7 Remove the adhesive (C), and then remove the sensor.



3000-sheet tray elevator spring removal

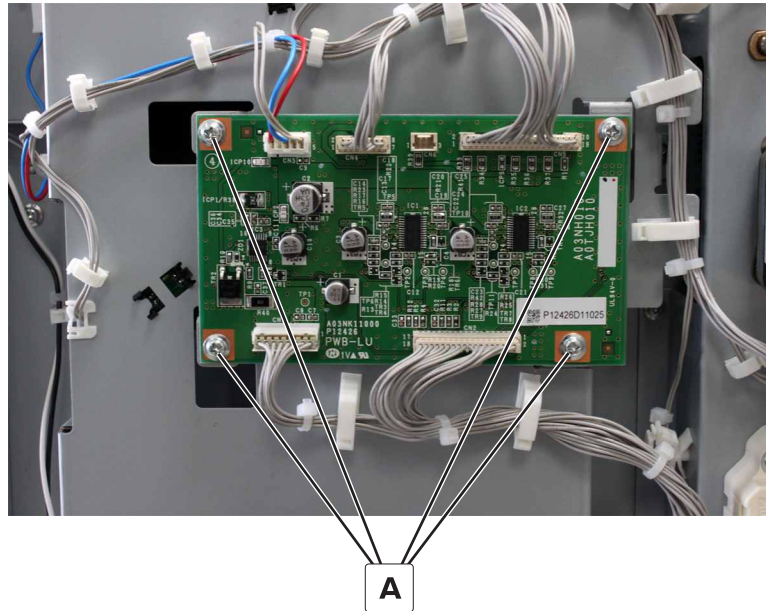
- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the front cover. See [“3000-sheet tray front cover removal” on page 936](#).
- 3 Remove the spring (A).



3000-sheet tray controller board removal

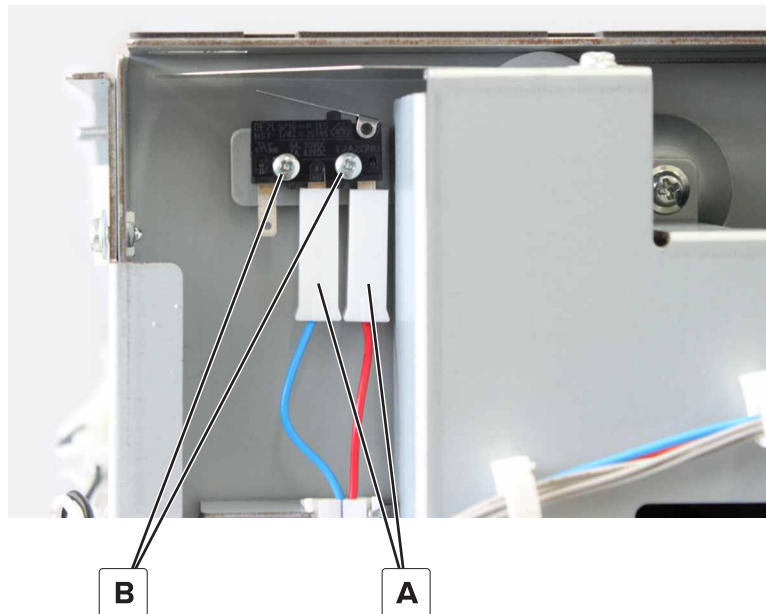
- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3 Disconnect all the cables from the board.

- 4** Remove the four screws (A), and then remove the board.



3000-sheet tray door switch removal

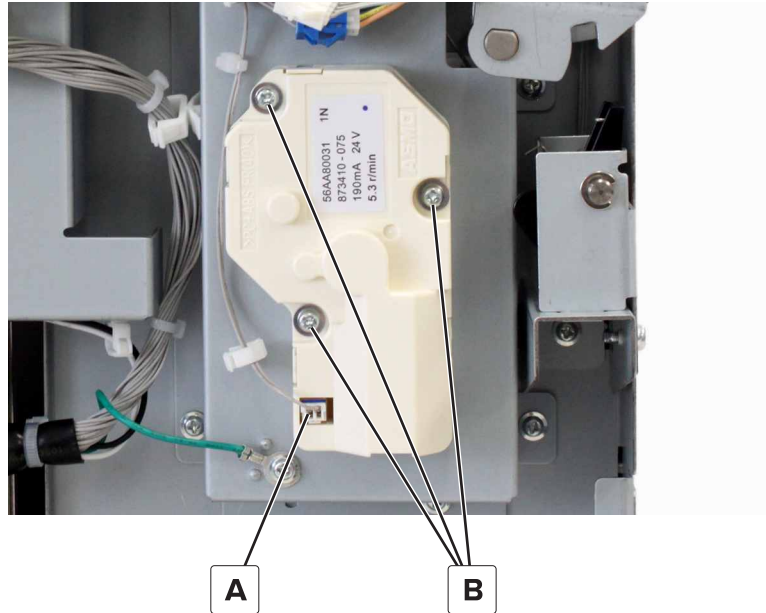
- 1** Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2** Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3** Disconnect the two cables (A).
- 4** Remove the two screws (B), and then remove the switch.



Parts removal

Motor (3000-sheet tray elevator) removal

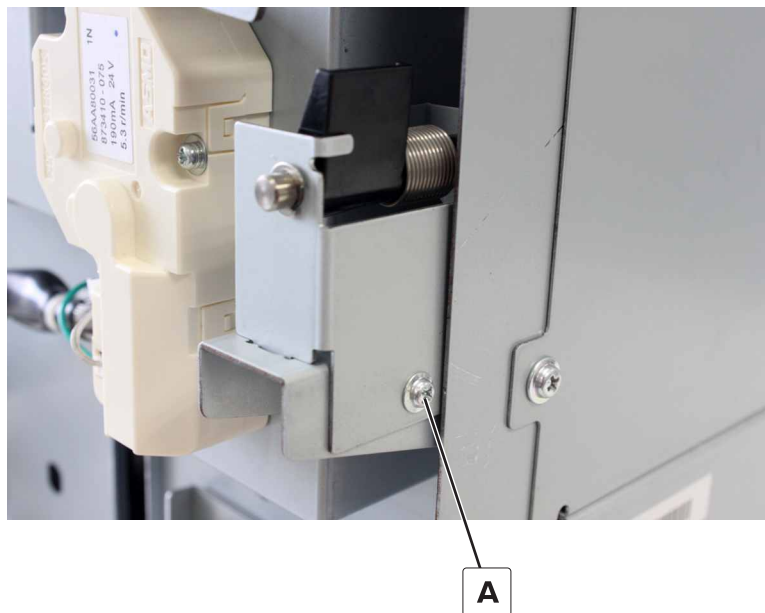
- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3 Disconnect the cable (A).
- 4 Remove the three screws (B), and then remove the motor.



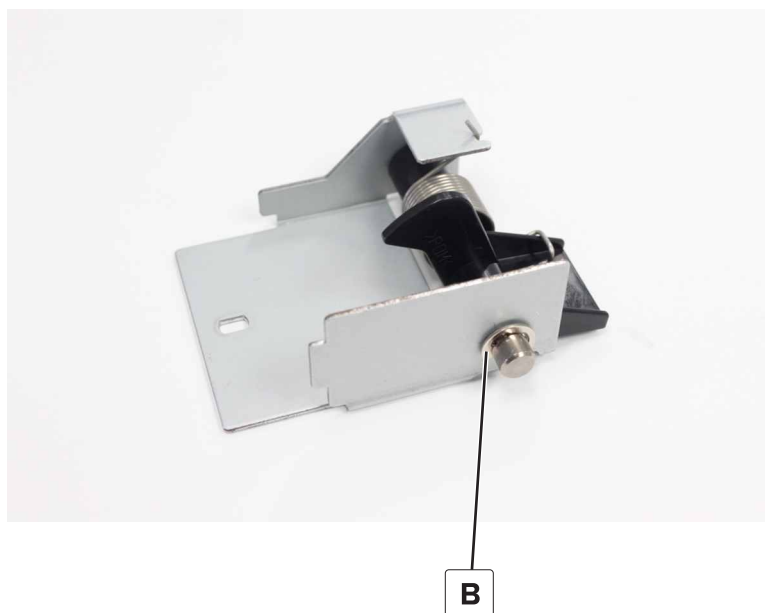
3000-sheet tray set sensor actuator removal

- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).

- 3** Remove the screw (A), and then remove the bracket.



- 4** Remove the clip (B).

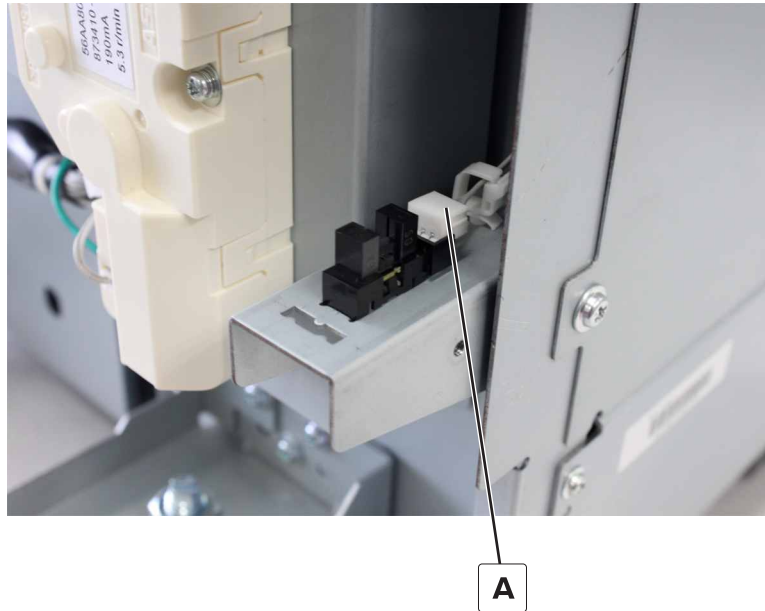


- 5** Remove the shaft, and then remove the actuator.

Sensor (3000-sheet tray set) removal

- 1** Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2** Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3** Remove the tray set sensor actuator. See [“3000-sheet tray set sensor actuator removal” on page 946](#).

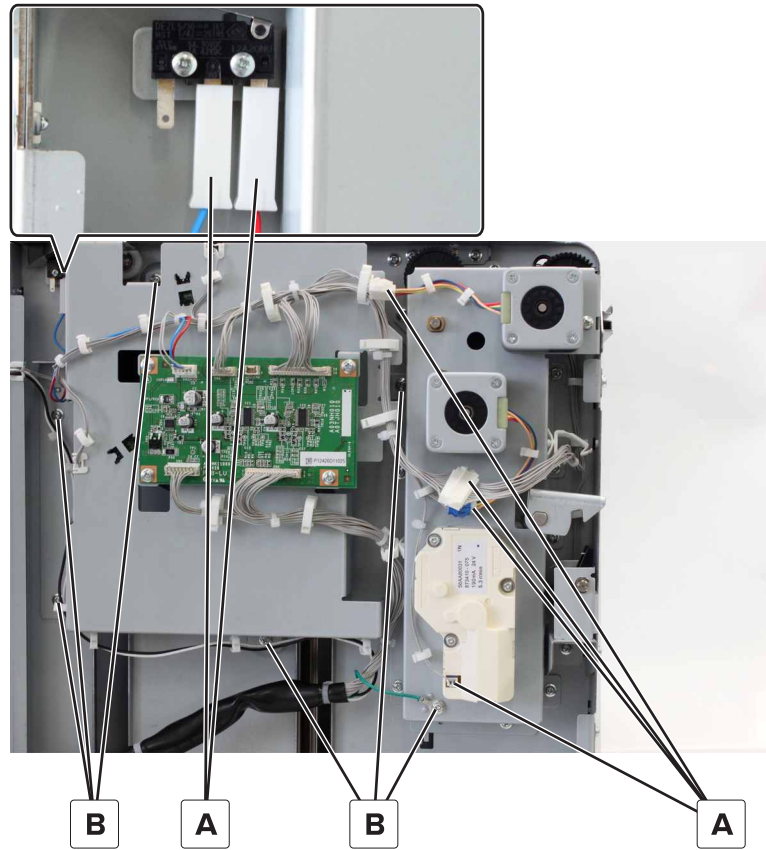
- 4** Disconnect the cable (A), and then remove the sensor.



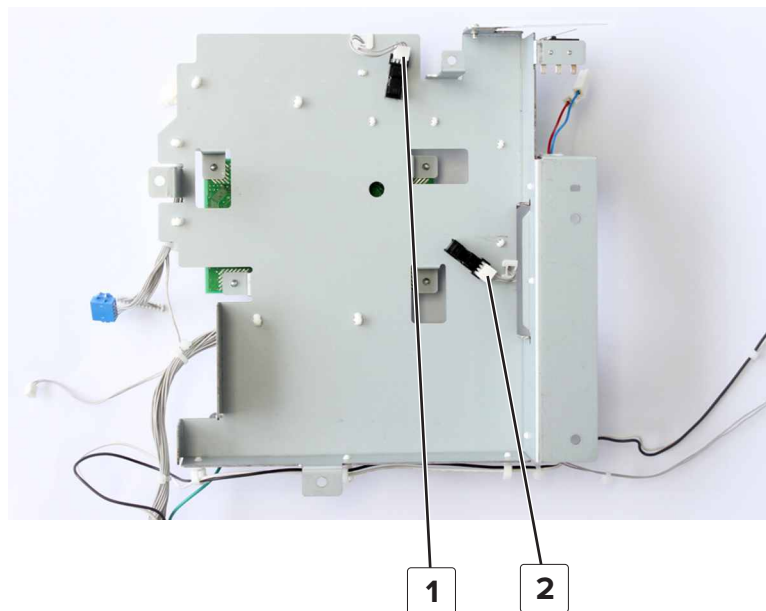
Sensor (3000-sheet tray near empty) removal

- 1** Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2** Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3** Disconnect the six cables (A).

- 4** Remove the six screws (B), and then remove the bracket.



- 5** Disconnect the cable, and then remove the sensor.

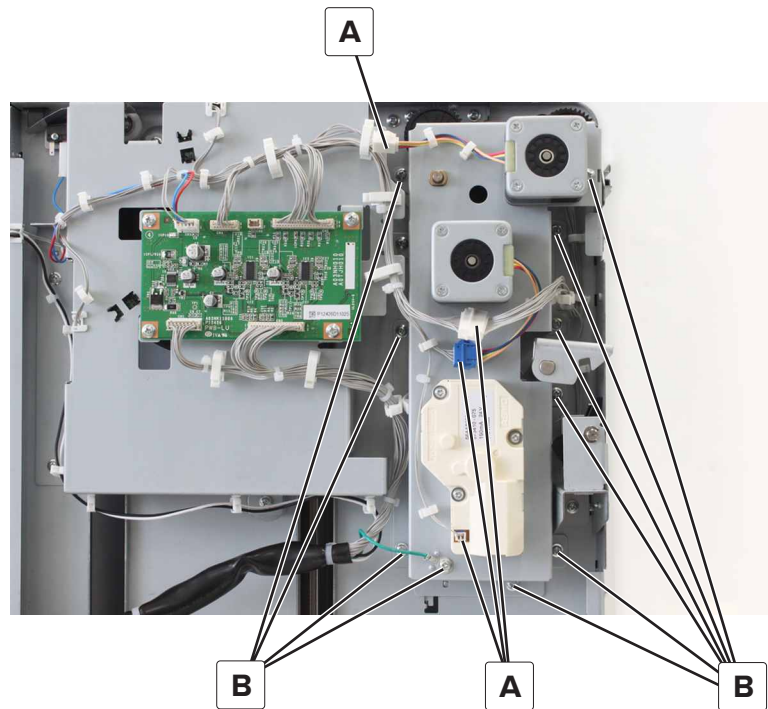


| # | Part |
|---|---------------------------------------|
| 1 | Sensor (3000-sheet tray near empty 1) |
| 2 | Sensor (3000-sheet tray near empty 2) |

Motor bracket removal

Note: This part is not a FRU.

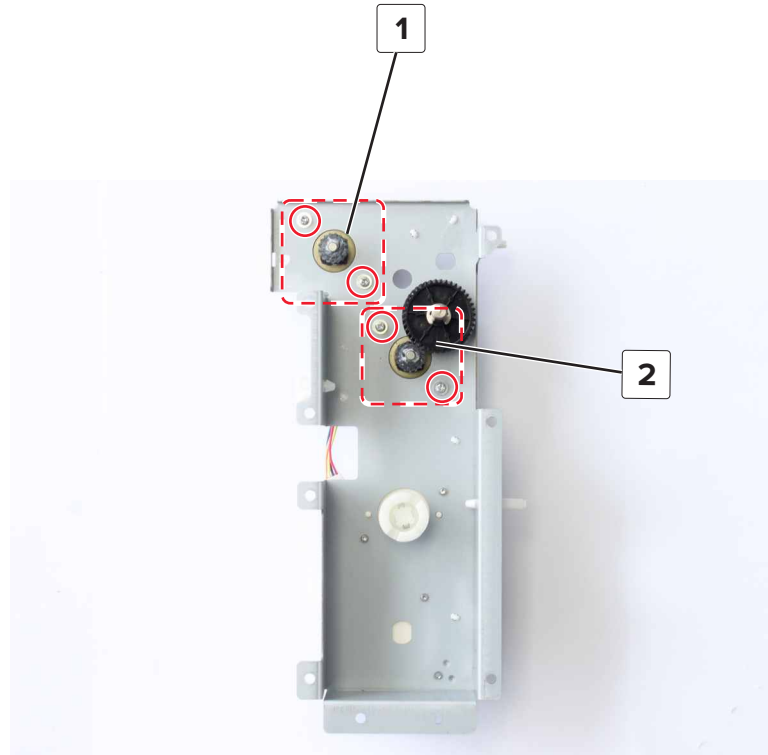
- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3 Disconnect the four cables (A).
- 4 Remove the ten screws (B), and then remove the bracket.



3000-sheet tray feed and transport motors removal

- 1 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 2 Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 3 Remove the motor bracket. See [“Motor bracket removal” on page 950](#).

- 4 Remove the two screws, and then remove the motor.

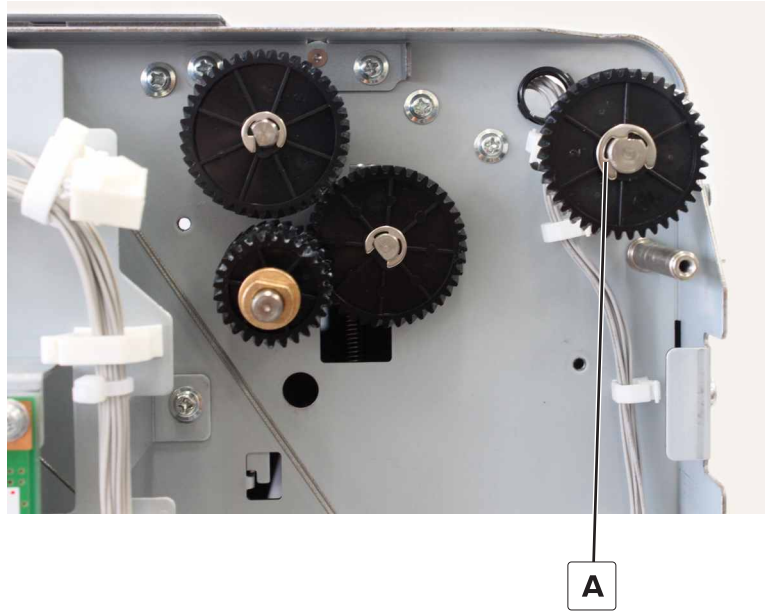


| # | Part |
|---|-----------------------------------|
| 1 | Motor (3000-sheet tray transport) |
| 2 | Motor (3000-sheet tray feed) |

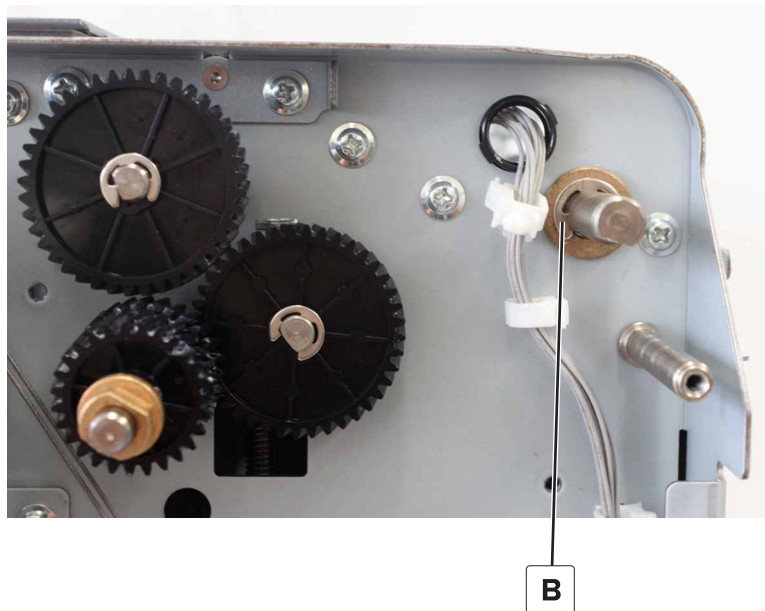
3000-sheet tray feed roller assembly removal

- 1 Remove the left cover. See [“3000-sheet tray left cover removal” on page 935](#).
- 2 Remove the right cover. See [“3000-sheet tray right cover removal” on page 936](#).
- 3 Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937](#).
- 4 Remove the front cover. See [“3000-sheet tray front cover removal” on page 936](#).
- 5 Remove the left top cover. See [“3000-sheet tray left top cover removal” on page 939](#).
- 6 Remove the motor bracket. See [“Motor bracket removal” on page 950](#).

7 Remove the clip (A), and then remove the gear.



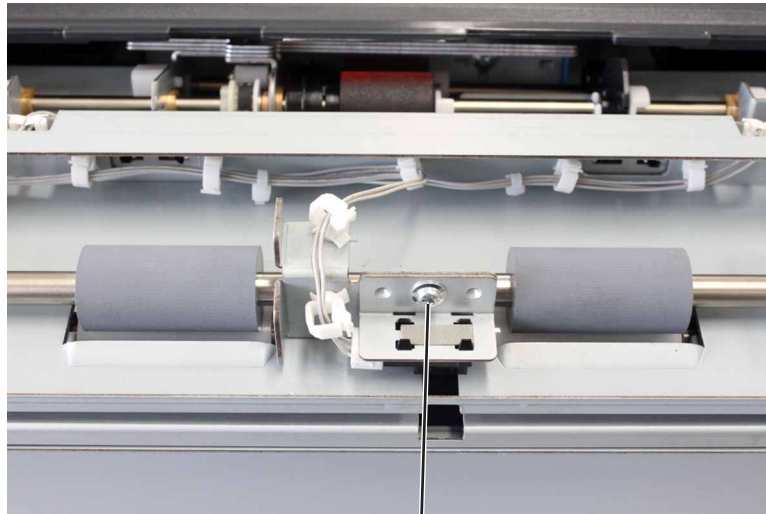
8 Remove the clip (B), and then remove the bushing.



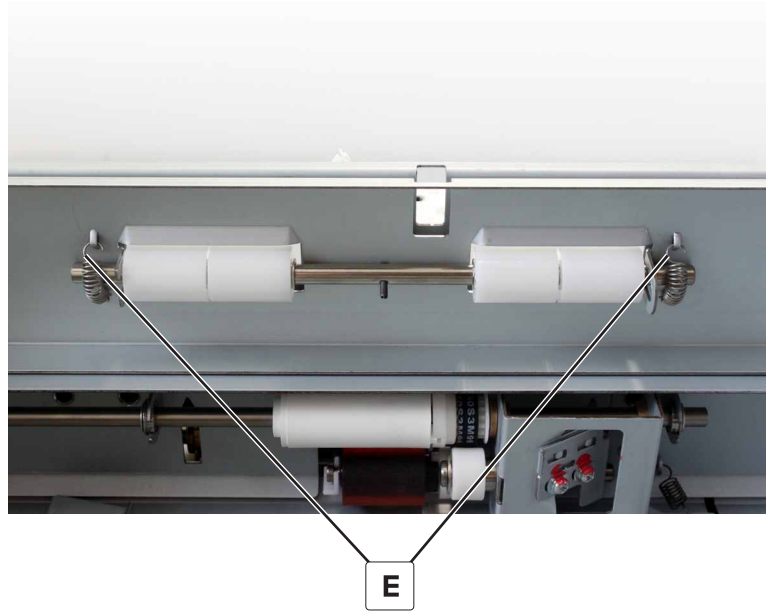
- 9** From the other end of the shaft, remove the clip (C), and then remove the bushing.

**C**

- 10** Remove the screw (D), remove the sensor bracket, and then remove the transport roller.

**D**

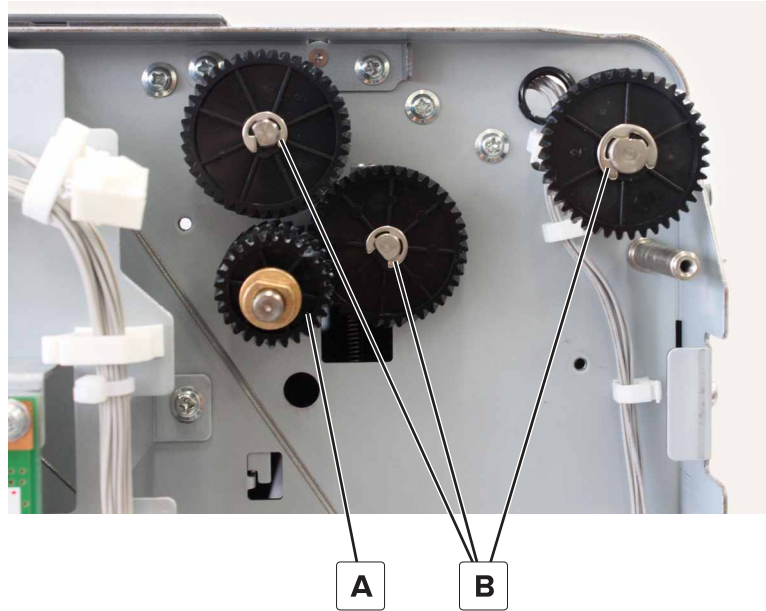
- 11** From under the assembly, remove the two springs (E), and then remove the roller.



3000-sheet tray pick roller assembly removal

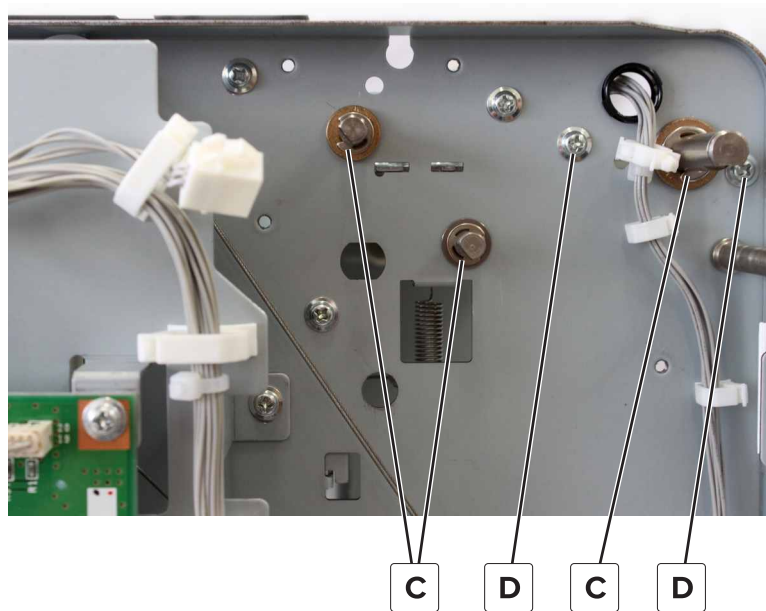
- 1** Remove the left cover. See [“3000-sheet tray left cover removal” on page 935.](#)
- 2** Remove the right cover. See [“3000-sheet tray right cover removal” on page 936.](#)
- 3** Remove the rear cover. See [“3000-sheet tray rear cover removal” on page 937.](#)
- 4** Remove the top door. See [“3000-sheet tray door removal” on page 938.](#)
- 5** Remove the left top cover. See [“3000-sheet tray left top cover removal” on page 939.](#)
- 6** Remove the motor bracket. See [“Motor bracket removal” on page 950.](#)
- 7** Remove the gear shaft (A).

- 8** Remove the three clips (B), and then remove the three gears.

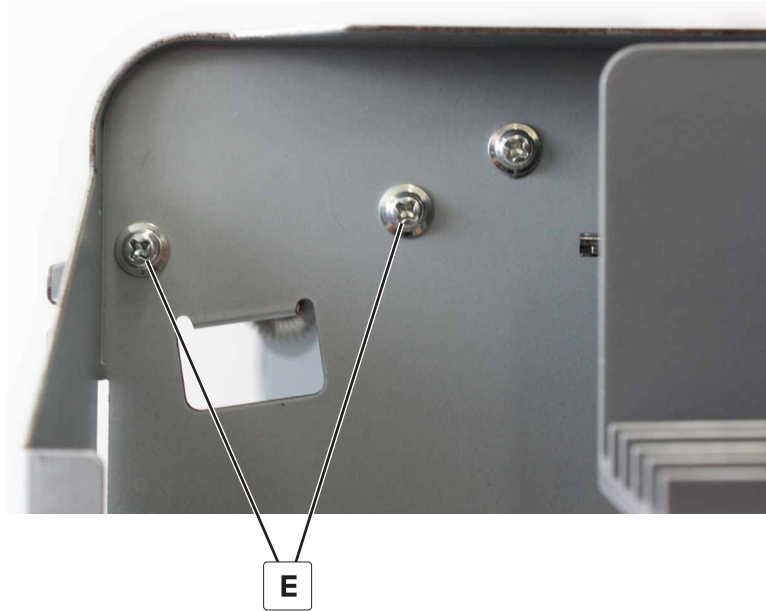


- 9** Remove the three clips (C), and then remove the three bushings.

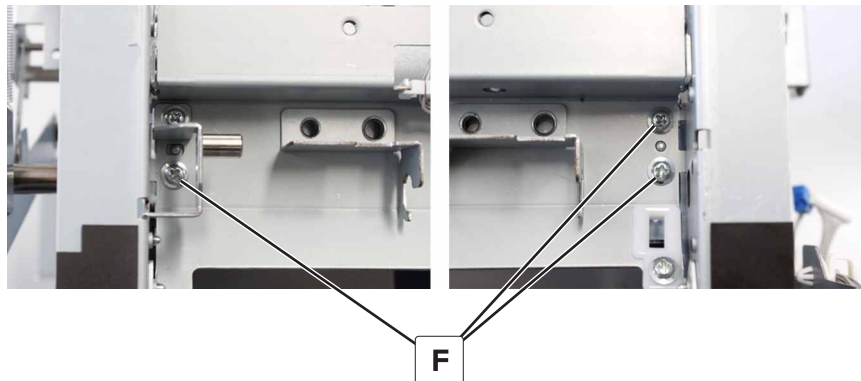
- 10** Remove the two screws (D).



- 11** Remove the two screws (E), and then dislodge the bracket.

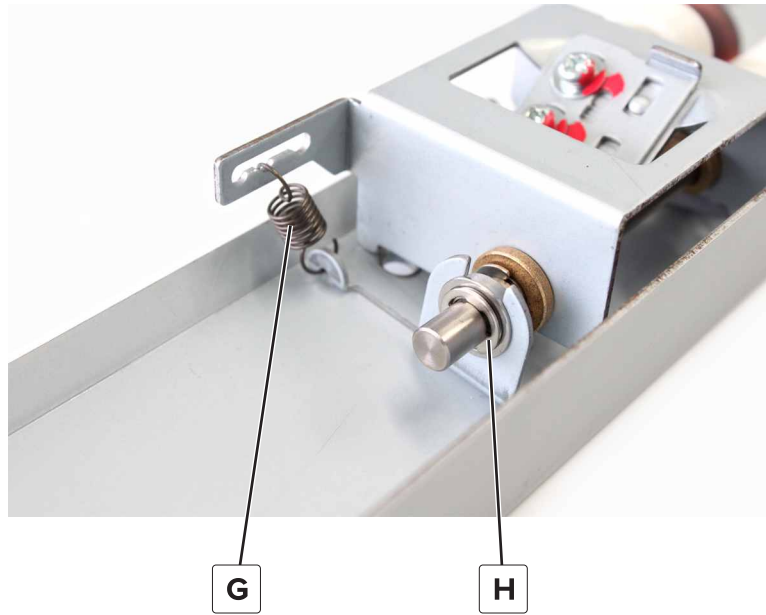


- 12** Remove the three screws (F), and then remove the assembly.



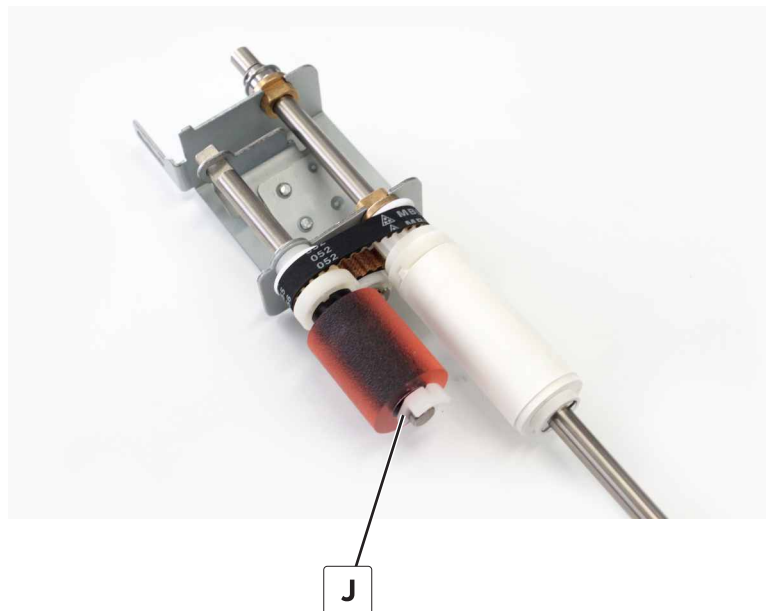
- 13** Disconnect the spring (G).

14 Remove the clip (H), and then remove the bushing.

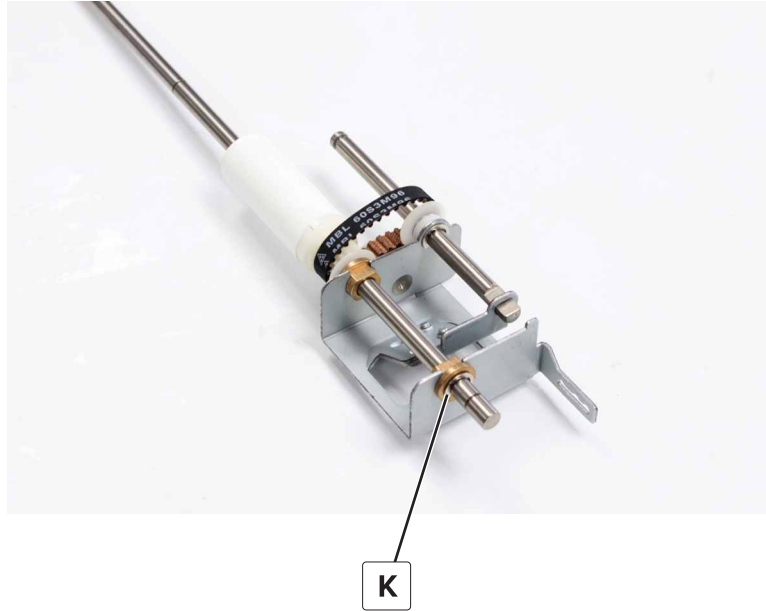


15 Remove the pick roller assembly from the bracket.

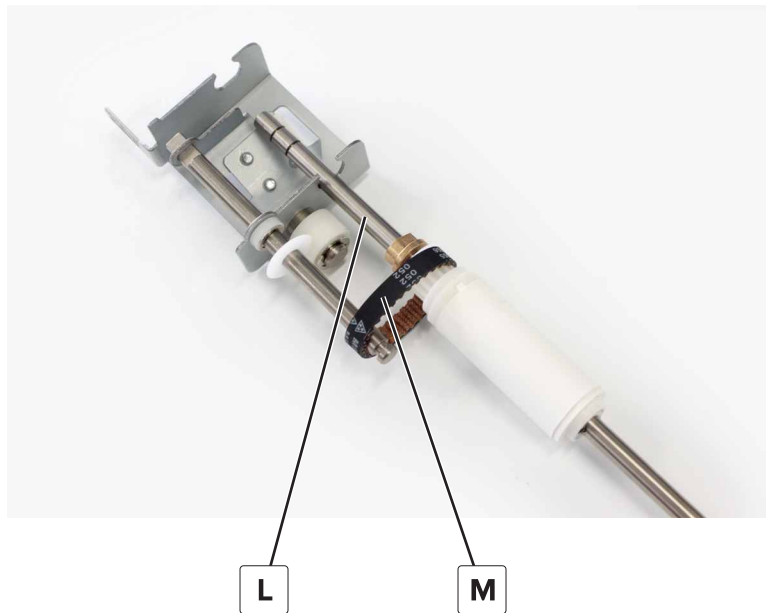
16 Remove the clip (J), and then remove the separator roller and the gear.



- 17** Remove the clip (K), and then remove the bushing.



- 18** Remove the shaft (L), and then remove the separator belt (M).



Component locations

Printer configurations

Note: Make sure to configure the printer on a flat, sturdy, and stable surface.

Basic model

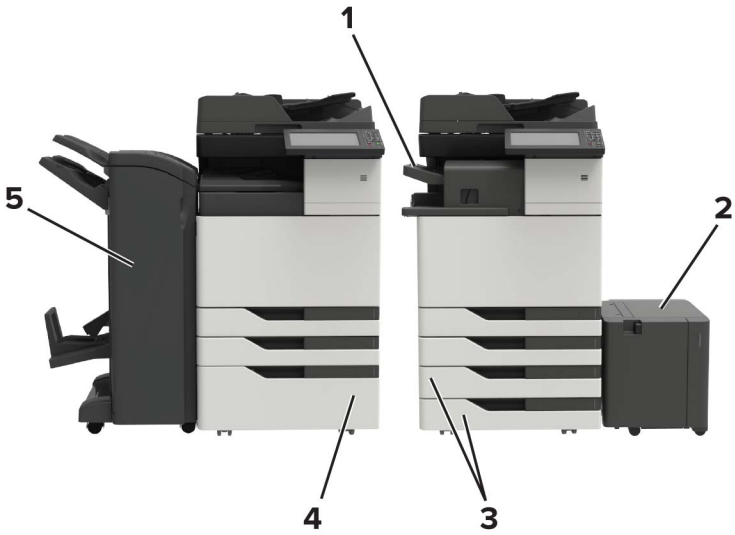


| | |
|----------|---------------------------------|
| 1 | Automatic document feeder (ADF) |
| 2 | Control panel |
| 3 | Multipurpose feeder |
| 4 | Standard 2 x 500-sheet tray |
| 5 | Standard bin |

Configured model

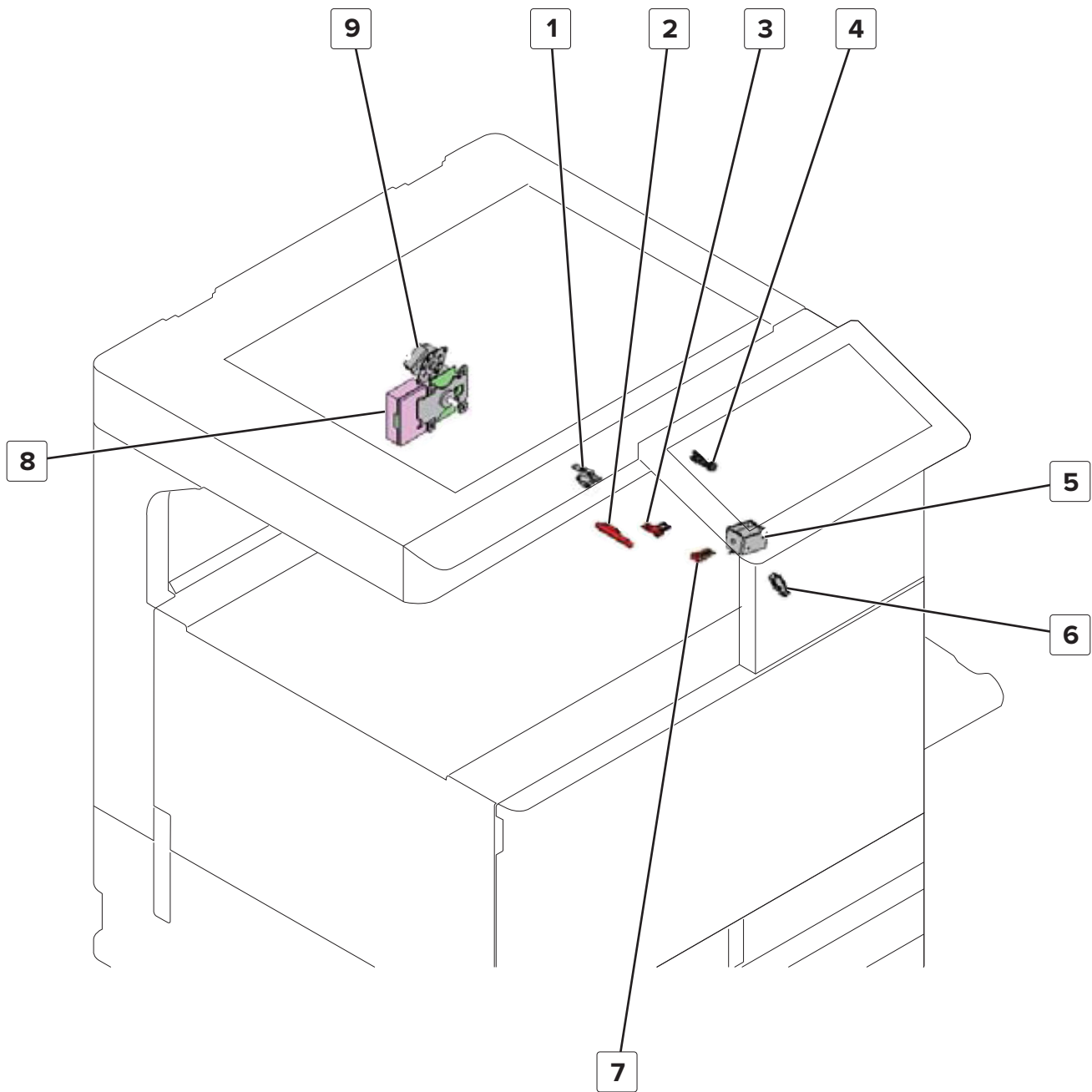


CAUTION—TIPPING HAZARD: Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury. For more information on supported configurations, see www.lexmark.com/multifunctionprinters.



| | |
|---|---|
| 1 | <div>Staple finisher</div> <div>Notes:<ul style="list-style-type: none">• This option is not supported if another finisher is installed.• This option is supported only in some printer models.</div> |
| 2 | <div>Optional 3000-sheet tray</div> <div>Note: This option is supported only if another optional tray is installed.</div> |
| 3 | <div>Optional 2 x 500-sheet tray</div> |
| 4 | <div>Optional 2500-sheet tray</div> |
| 5 | <div>Finisher</div> <div><ul style="list-style-type: none">• Staple, hole punch finisher• Booklet finisher</div> |

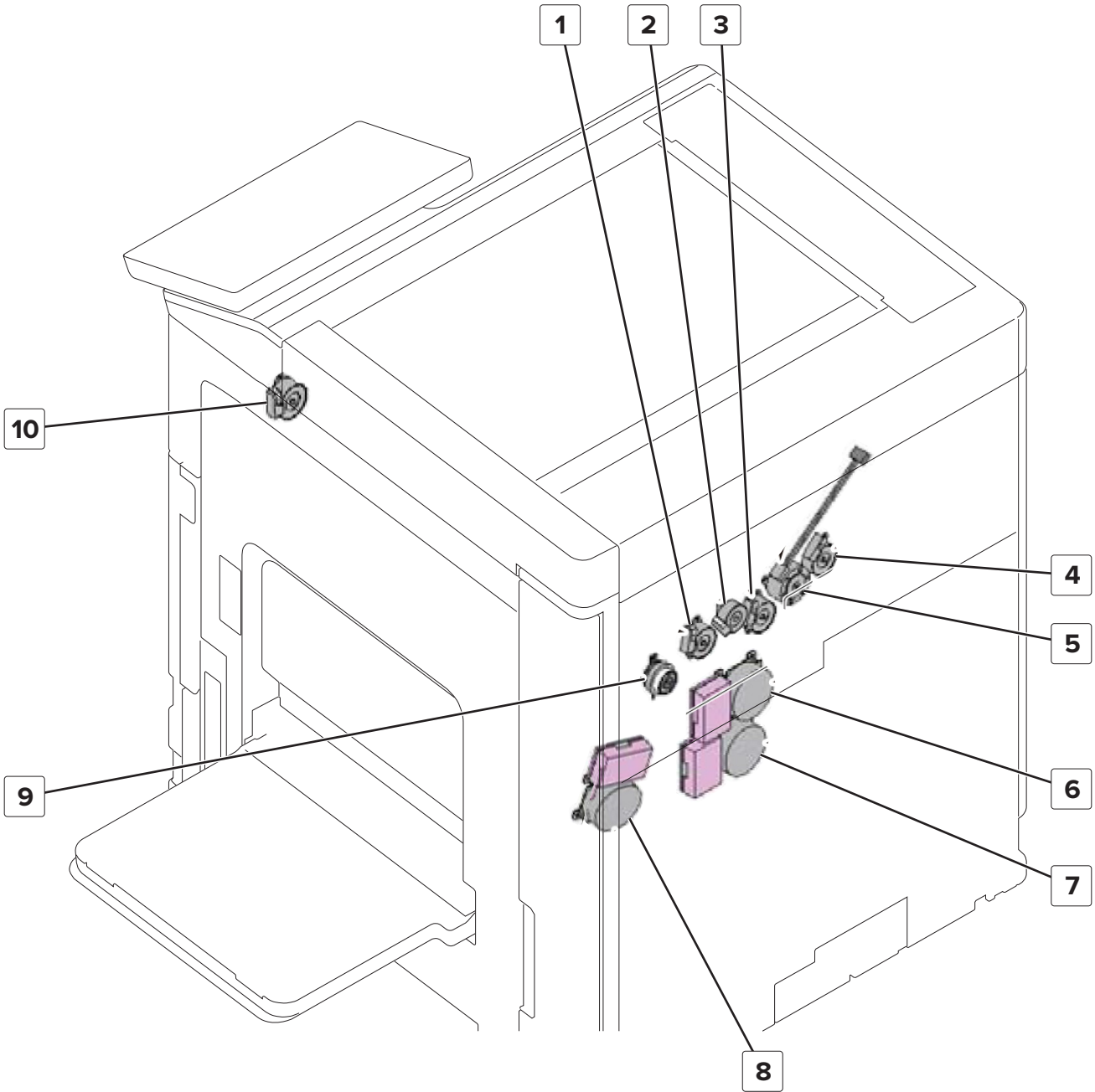
Fusing and paper exit section



| # | Part name |
|---|-------------------------------------|
| 1 | Heating roller thermistor |
| 2 | Sensor (heating roller temperature) |
| 3 | Heating roller thermistor |
| 4 | Sensor (paper exit) |
| 5 | Gate switch solenoid |

| # | Part name |
|---|-------------------------------|
| 6 | Sensor (fusing pressure home) |
| 7 | Heating roller thermistor |
| 8 | Motor (fuser) |
| 9 | Motor (fuser pressure) |

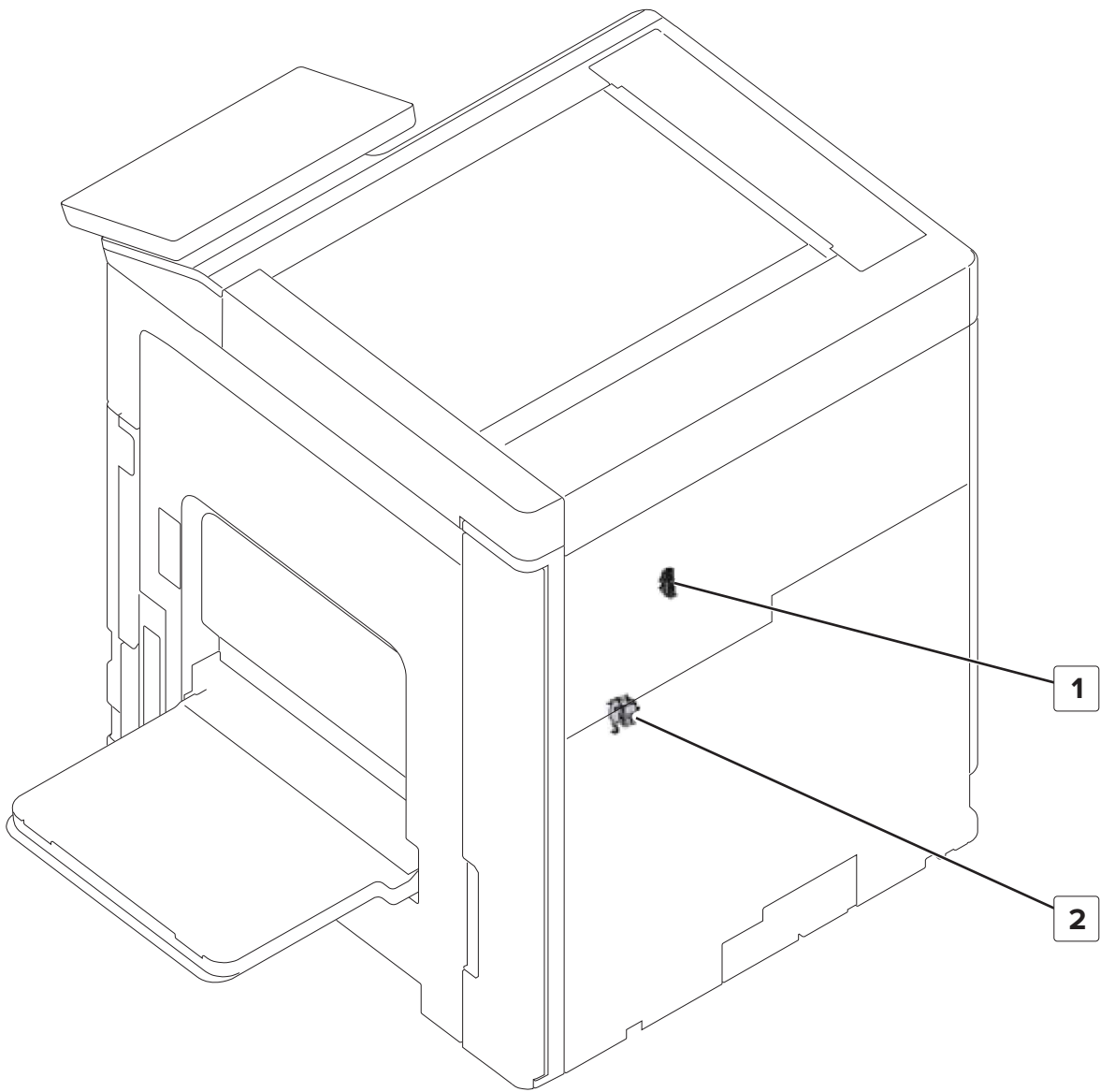
Rear 1



Component locations

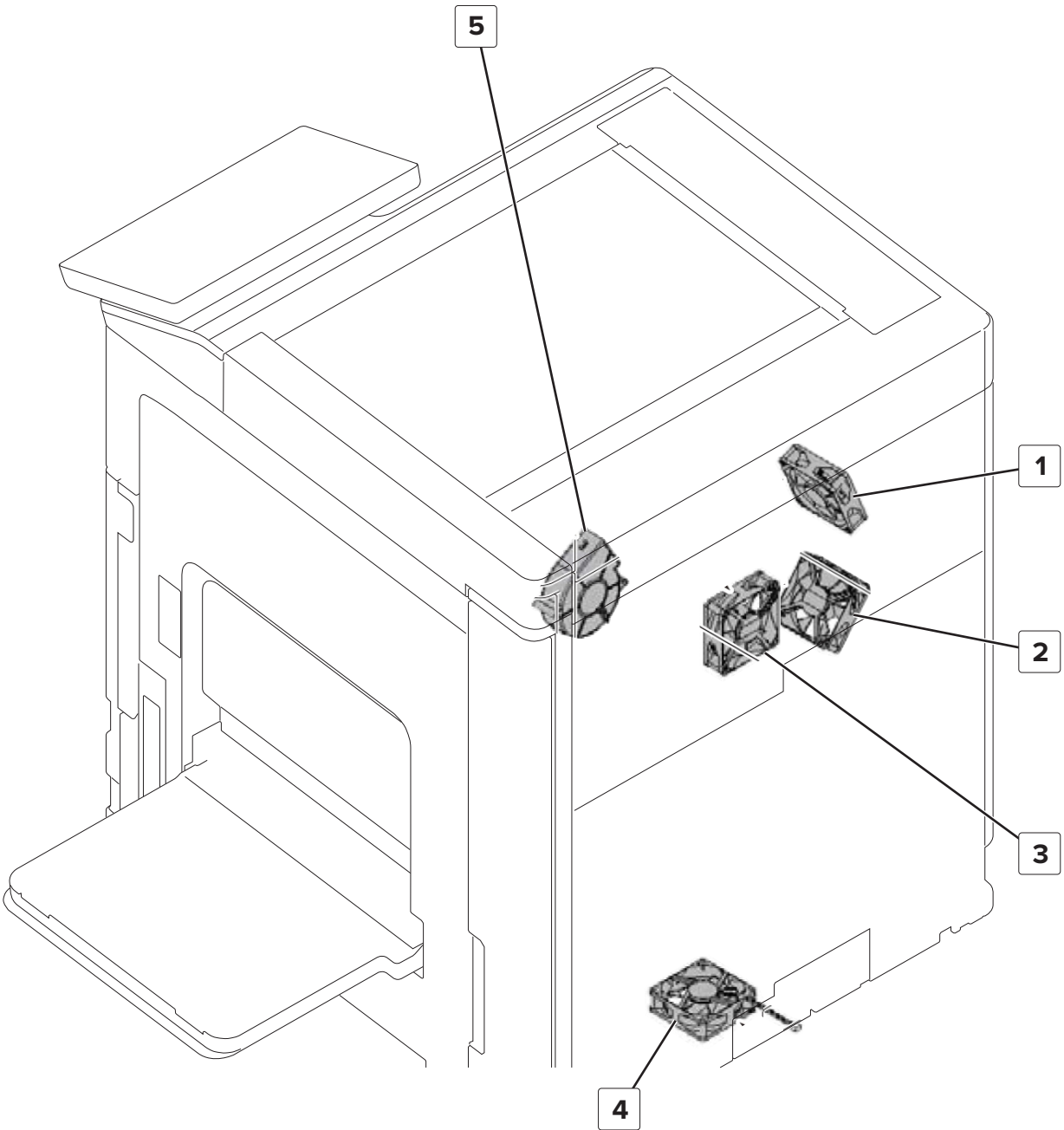
| # | Part name |
|-----------|----------------------------|
| 1 | Motor (C toner supply) |
| 2 | Motor (CK toner cartridge) |
| 3 | Motor (M toner supply) |
| 4 | Motor (MY toner cartridge) |
| 5 | Motor (Y toner supply) |
| 6 | Motor (photoconductor) |
| 7 | Motor (developer) |
| 8 | Motor (transport) |
| 9 | CMY retract clutch |
| 10 | Motor (K toner supply) |

Rear 2



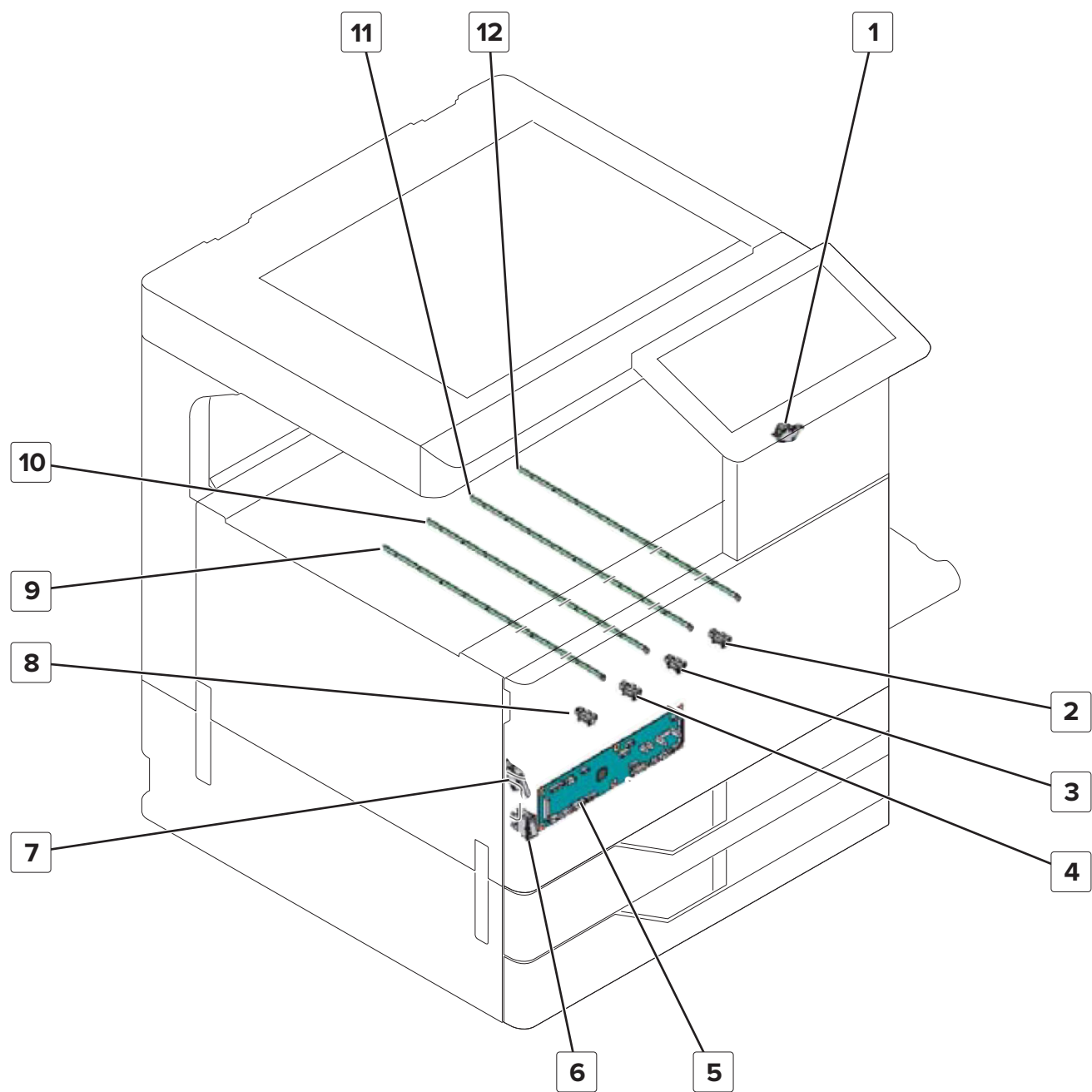
| # | Part name |
|---|----------------------|
| 1 | Sensor (CMY retract) |
| 2 | K developer solenoid |

Fans



| # | Part name |
|---|-----------------------|
| 1 | Transfer belt fan |
| 2 | Main power supply fan |
| 3 | Toner cartridge fan |
| 4 | Controller board fan |
| 5 | Paper exit fan |

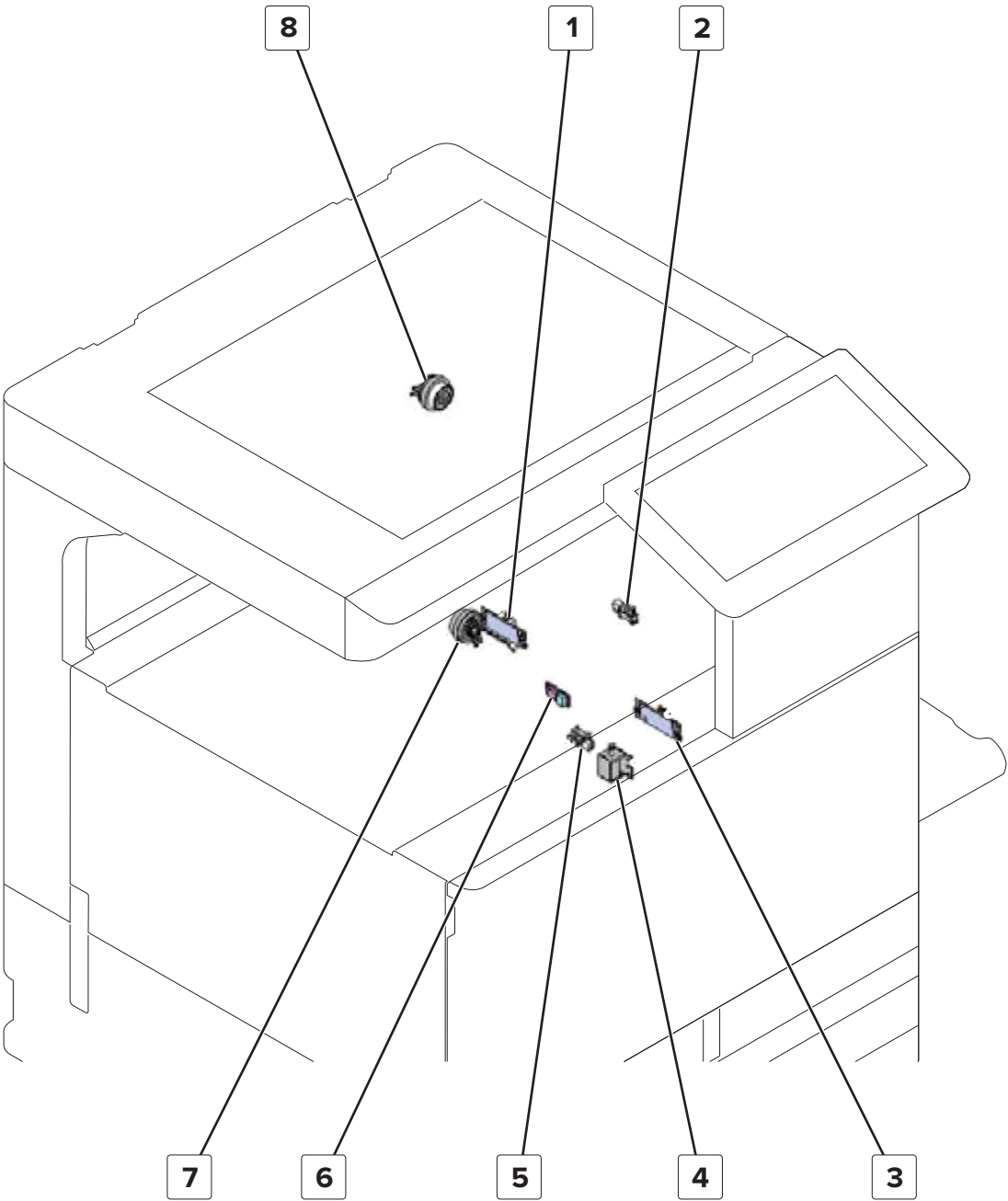
Toner cartridge section



| # | Part name |
|---|--------------------------|
| 1 | Right door switch |
| 2 | Sensor (C toner present) |
| 3 | Sensor (M toner present) |
| 4 | Sensor (Y toner present) |
| 5 | Image controller board |

| # | Part name |
|-----------|--------------------------|
| 6 | Main power switch |
| 7 | Door switch |
| 8 | Sensor (K toner present) |
| 9 | Erase LED (Y) |
| 10 | Erase LED (M) |
| 11 | Erase LED (C) |
| 12 | Erase LED (K) |

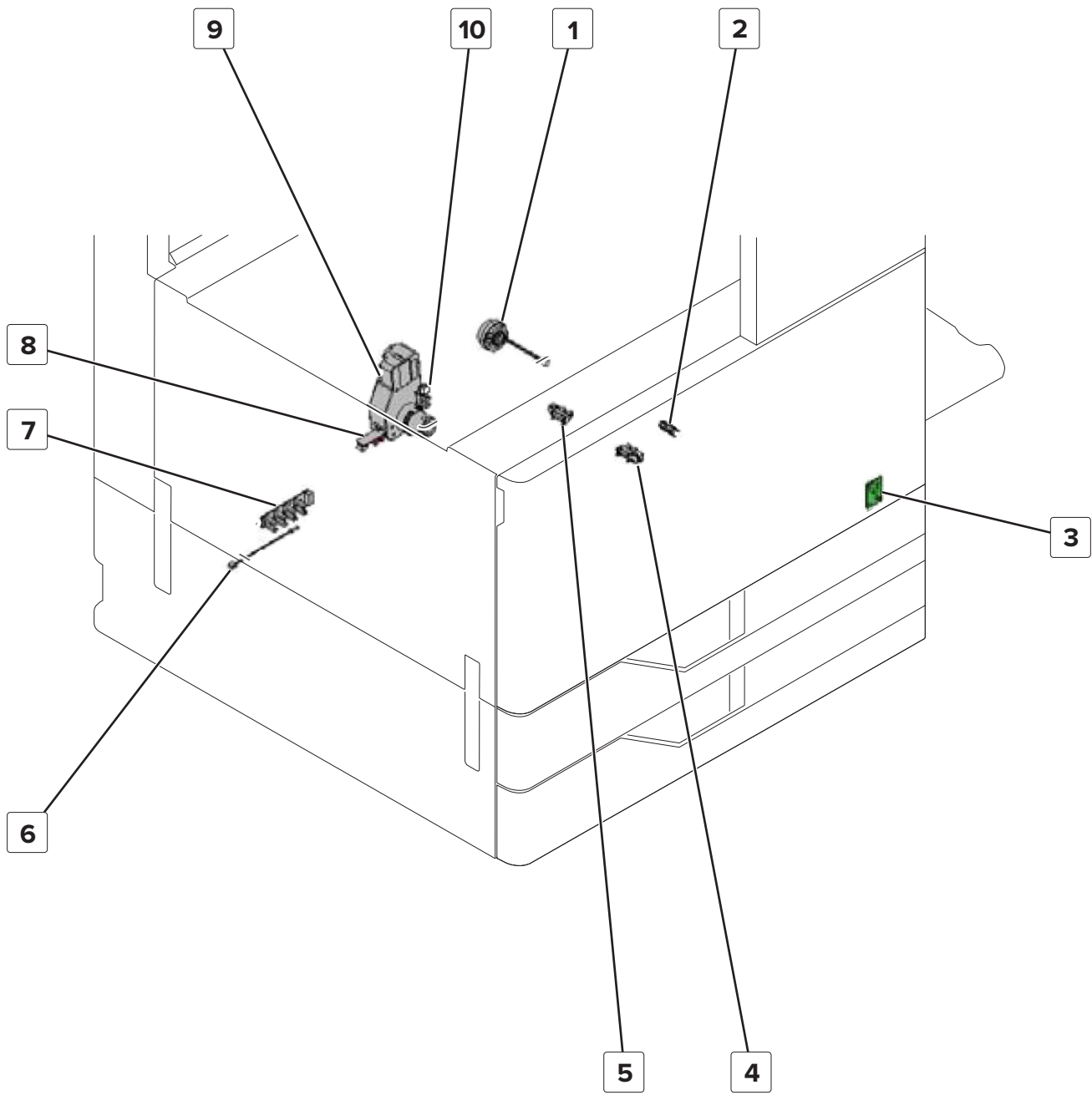
Registration



| # | Part name |
|---|------------------------------|
| 1 | Sensor (rear toner density) |
| 2 | Sensor (fusing speed) |
| 3 | Sensor (front toner density) |
| 4 | Toner density solenoid |
| 5 | Sensor (registration) |

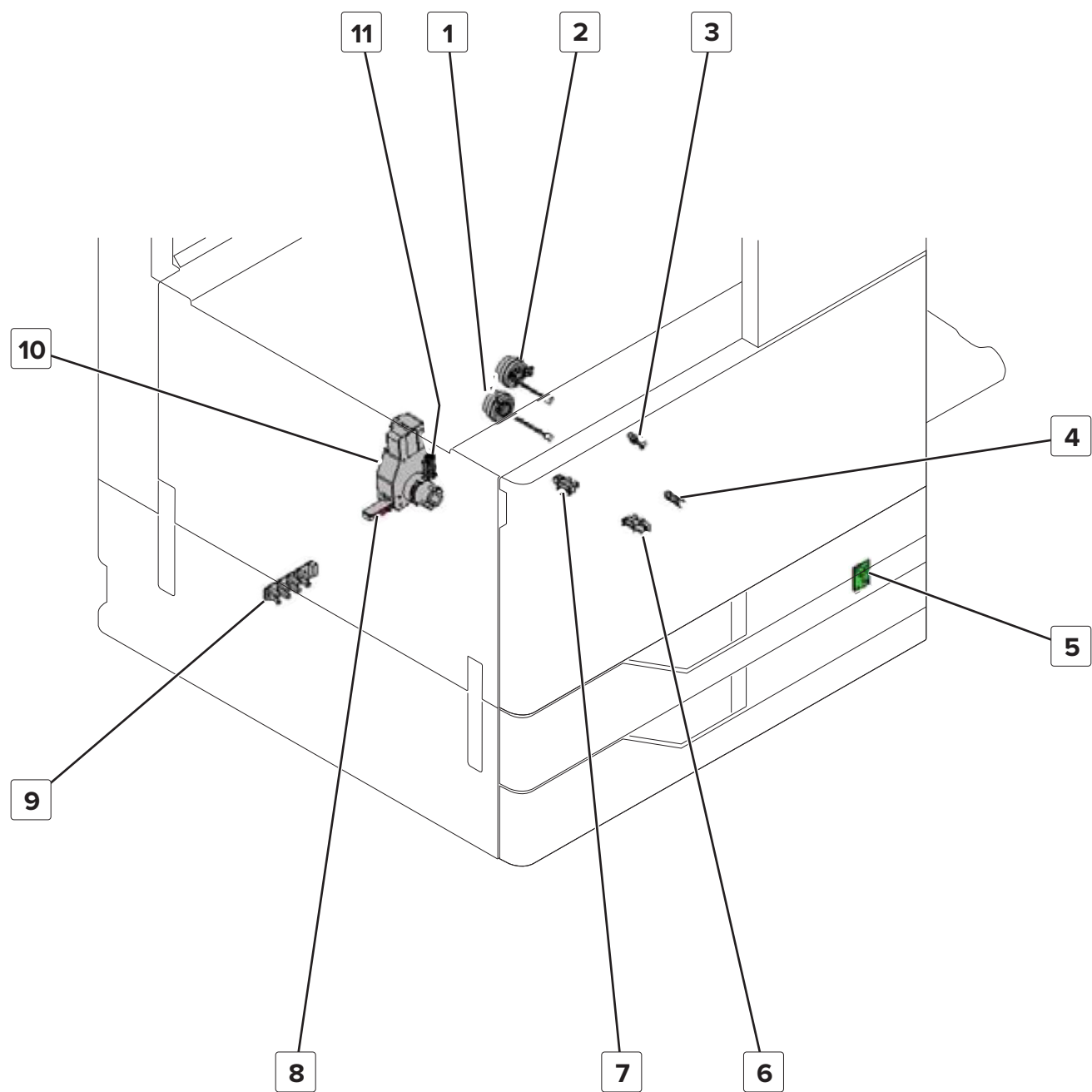
| # | Part name |
|---|--------------------------------|
| 6 | Sensor (registration humidity) |
| 7 | Registration clutch |
| 8 | Paper exit clutch |

Tray 1



| # | Part name |
|-----------|-----------------------------------|
| 1 | Tray 1 paper feed clutch |
| 2 | Sensor (tray 1 feed) |
| 3 | Tray 1 empty indicator board |
| 4 | Sensor (tray 1 empty) |
| 5 | Sensor (tray 1 lift plate level) |
| 6 | Sensor (tray 1 and 2 temperature) |
| 7 | Sensor (tray 1 paper length) |
| 8 | Sensor (tray 1 paper width) |
| 9 | Motor (tray 1 lift) |
| 10 | Sensor (tray 1 near empty) |

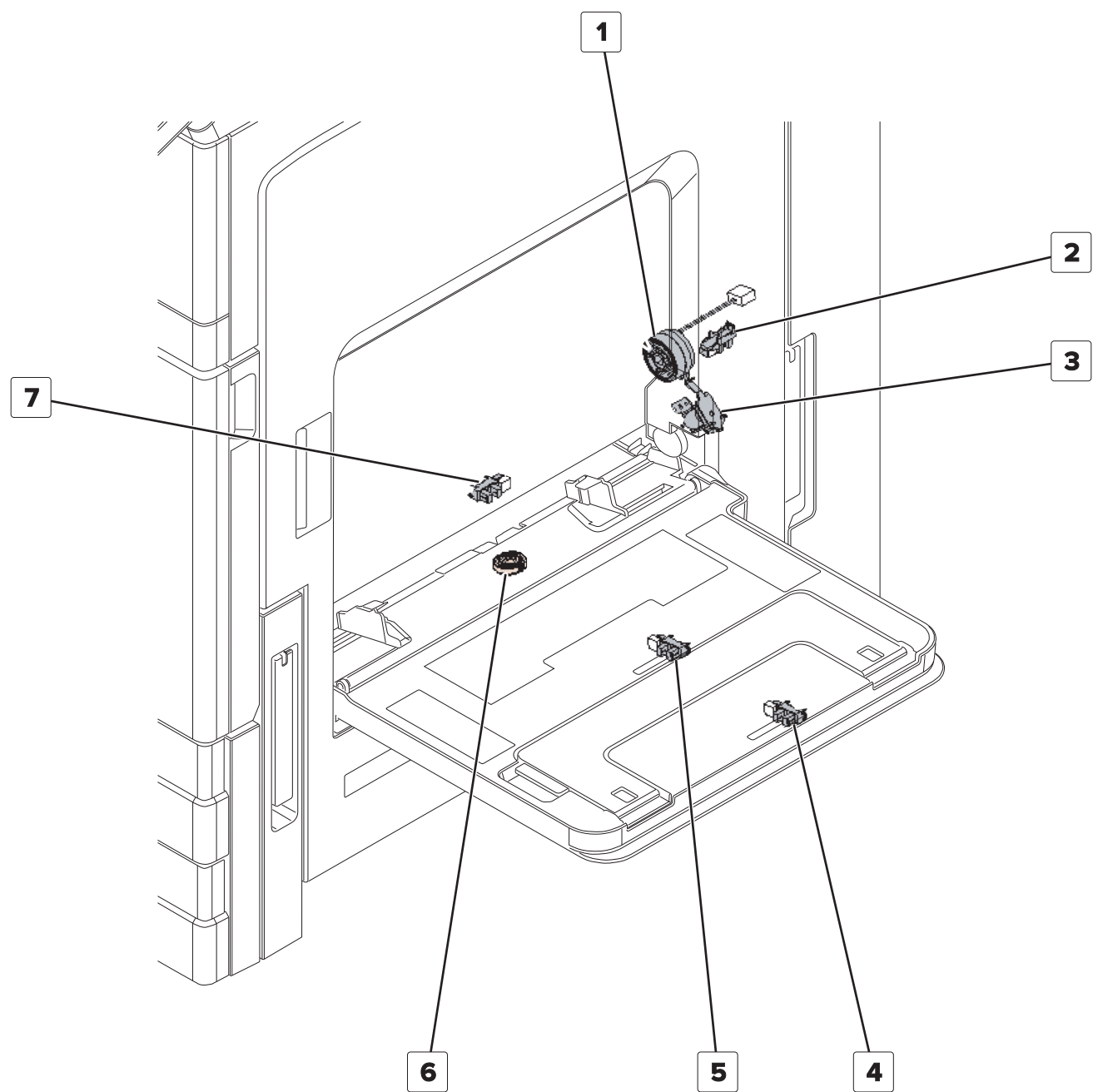
Tray 2



| # | Part name |
|---|----------------------------------|
| 1 | Tray 2 paper feed clutch |
| 2 | Tray 2 vertical transport clutch |
| 3 | Sensor (tray 2 transport) |
| 4 | Sensor (tray 2 feed) |
| 5 | Tray 2 empty indicator board |

| # | Part name |
|----|----------------------------------|
| 6 | Sensor (tray 2 empty) |
| 7 | Sensor (tray 2 lift plate level) |
| 8 | Sensor (tray 2 paper width) |
| 9 | Sensor (tray 2 paper length) |
| 10 | Motor (tray 2 lift) |
| 11 | Sensor (tray 2 near empty) |

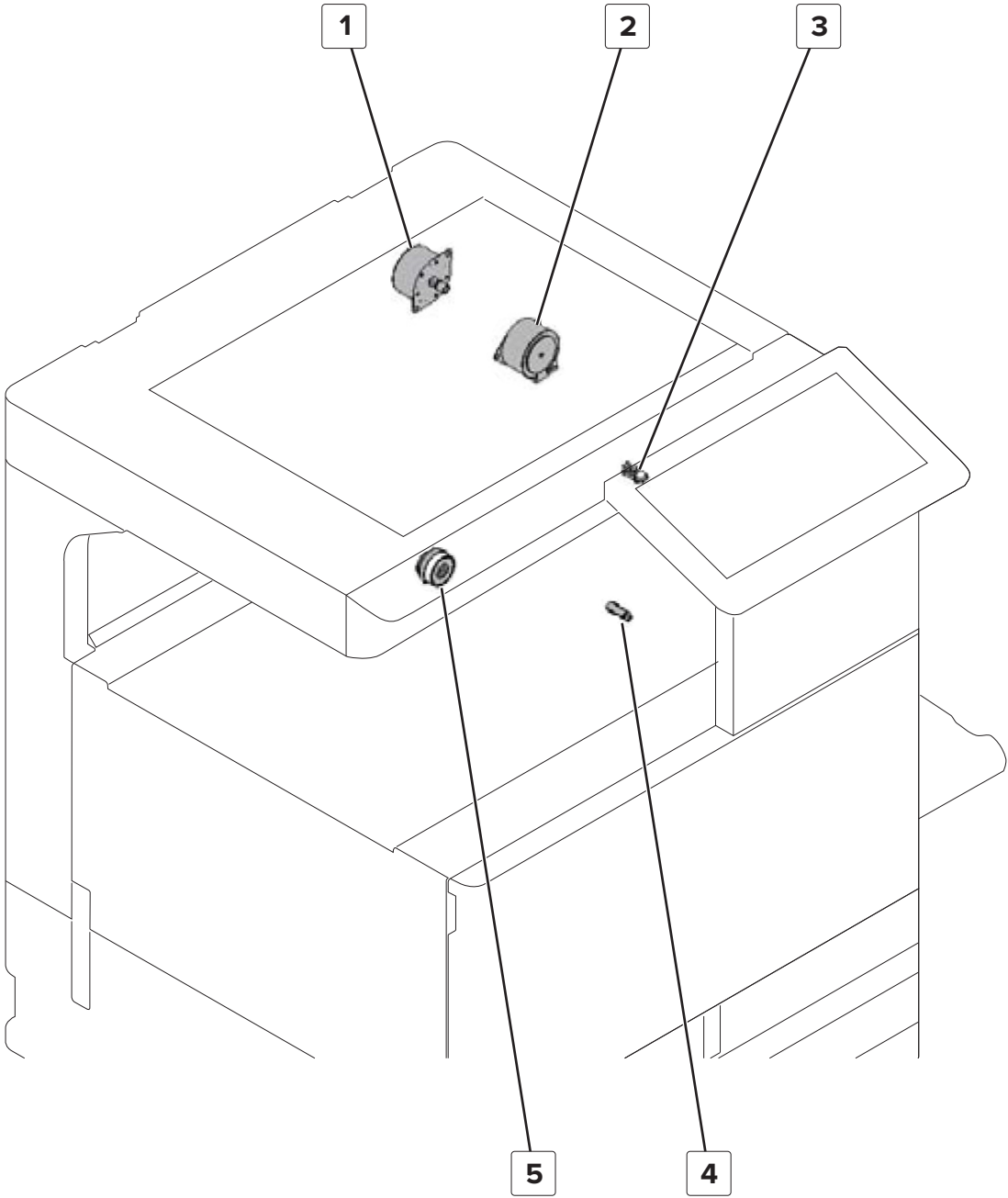
MPF



| # | Part name |
|---|-----------------------------|
| 1 | MPF feed clutch |
| 2 | Sensor (MPF lift plate) |
| 3 | MPF lift plate solenoid |
| 4 | Sensor (MPF paper length 2) |
| 5 | Sensor (MPF paper length 1) |

| # | Part name |
|---|----------------------------|
| 6 | Sensor (MPF paper width) |
| 7 | Sensor (MPF paper present) |

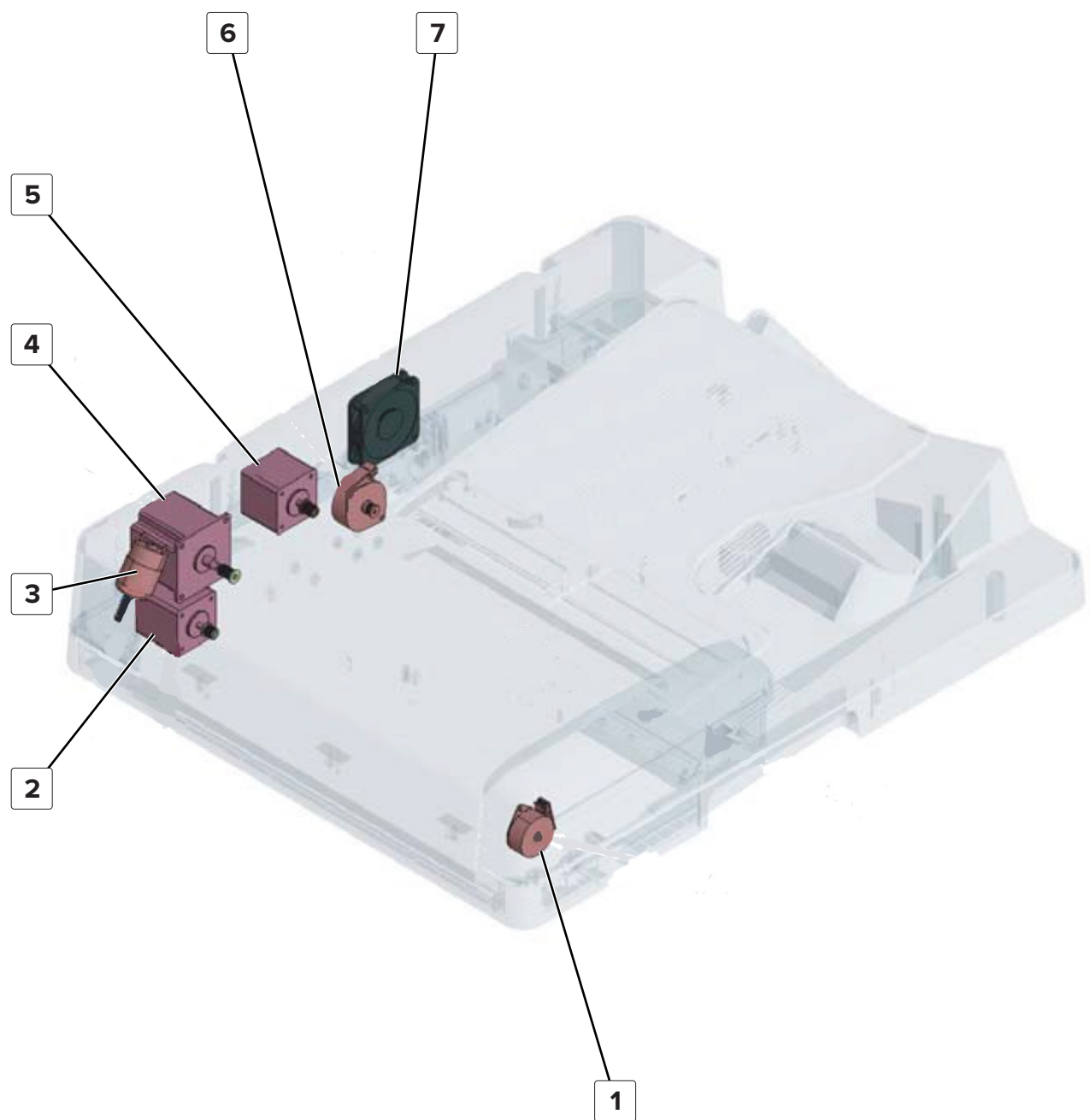
Duplex



Component locations

| # | Part name |
|---|--------------------------------|
| 1 | Motor (redrive) |
| 2 | Motor (duplex transport) |
| 3 | Sensor (duplex pass through 1) |
| 4 | Sensor (duplex pass through 2) |
| 5 | Duplex transport clutch |

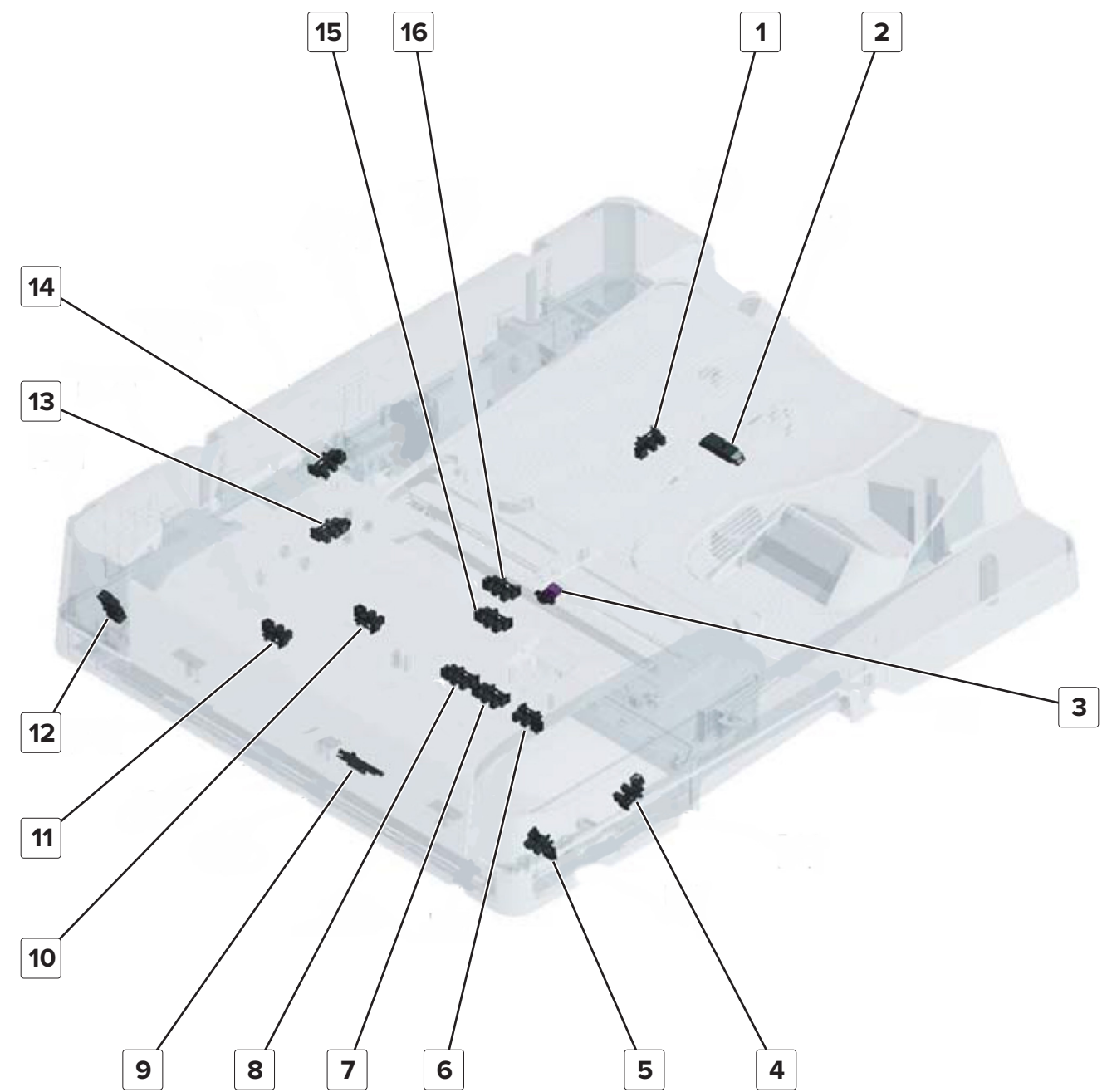
ADF motors and fan



| # | Part name |
|---|-----------------------------|
| 1 | Motor (ADF scan 2) |
| 2 | Motor (registration) |
| 3 | Motor (scan roller release) |
| 4 | Motor (ADF scan 1) |
| 5 | Motor (ADF feed) |

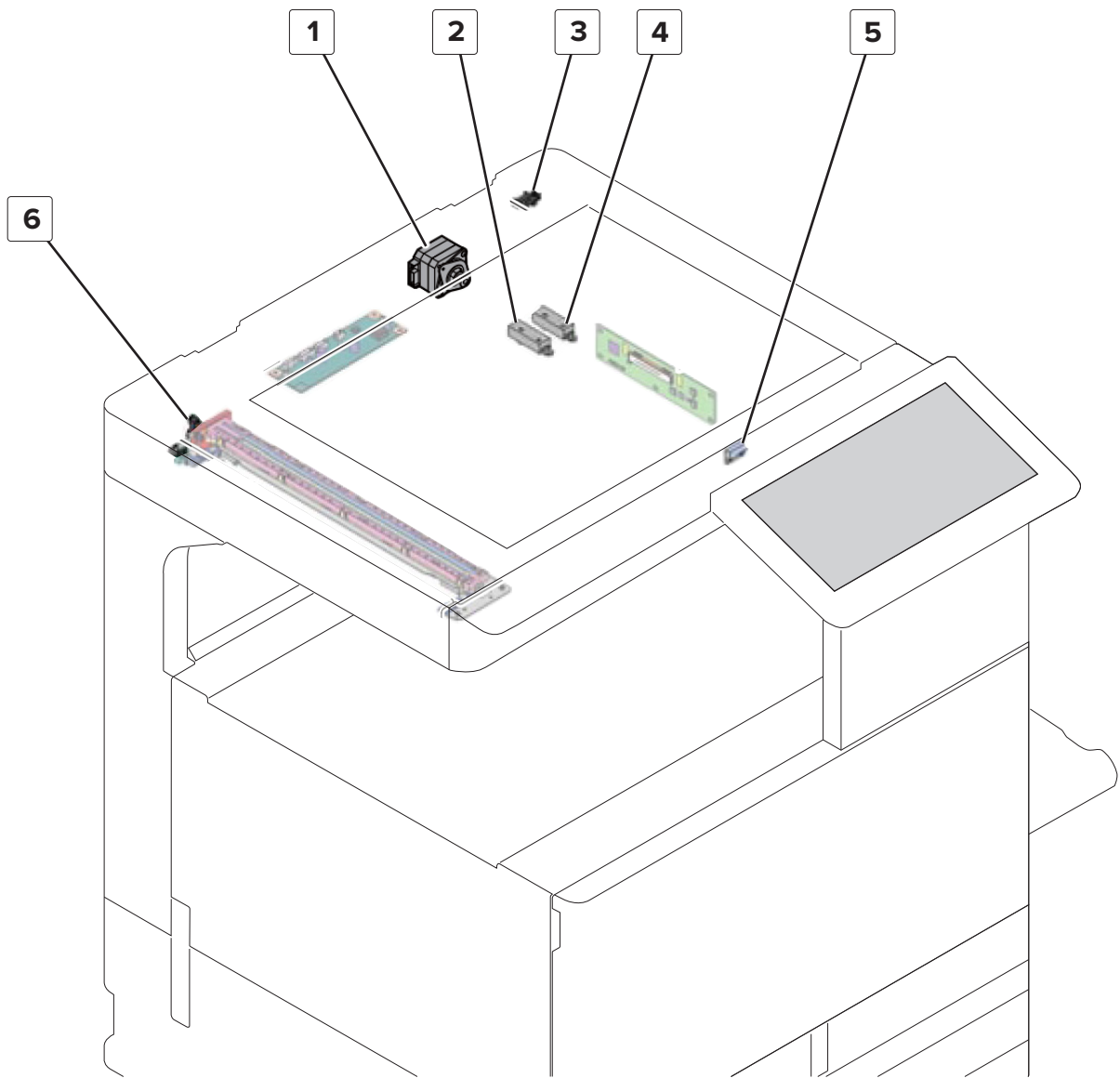
| # | Part name |
|---|------------------|
| 6 | Motor (ADF exit) |
| 7 | ADF cooling fan |

ADF sensors



| # | Part name |
|----|-----------------------------------|
| 1 | Sensor (ADF paper length 1) |
| 2 | Sensor (ADF paper length 2) |
| 3 | Sensor (ADF paper width) |
| 4 | Sensor (CIS cover) |
| 5 | Sensor (ADF scan) |
| 6 | Sensor (ADF mixed paper width 3) |
| 7 | Sensor (ADF mixed paper width 2) |
| 8 | Sensor (ADF mixed paper width 1) |
| 9 | Sensor (ADF document reading) |
| 10 | Sensor (ADF document separation) |
| 11 | Sensor (ADF registration) |
| 12 | Sensor (ADF scan roller position) |
| 13 | Sensor (CIS cleaning) |
| 14 | Sensor (ADF upper door) |
| 15 | Sensor (ADF exit) |
| 16 | Sensor (ADF paper empty) |

Scanner



| # | Part name |
|---|-------------------------|
| 1 | Motor (scanner) |
| 2 | Sensor (paper size 1) |
| 3 | Sensor (angle) |
| 4 | Sensor (paper size 2) |
| 5 | Sensor (original cover) |

| # | Part name |
|---|-----------------------|
| 6 | Sensor (scanner home) |

Maintenance

Inspection guide

Use this guide in identifying the parts that must be inspected, cleaned, or replaced based on the page count.

If any unsafe condition exists, find out how serious the hazard is and if you can continue before you correct the hazard.

As you service the printer, check for the following:

- Damaged, missing, or altered parts, especially in the area of the power switch and the power supply
- Damaged, missing, or altered covers, especially in the area of the top and power supply covers
- Possible safety exposure from any non-Lexmark attachments

Use the following table to determine when to inspect the following parts:

| Part | Toner (replacement : 5K, 10K, 20K, 30K, 38K) | Photoconduct or (replacement: 125K) | Developer (replacement: 600K) | Waste toner box (replacement: 90K) | 300K maintenance kit |
|-------------------------|--|--|---|---|----------------------------|
| Printhead | | | | | |
| Printhead window | Clean | Clean | Clean | Clean | Clean |
| Part | Every 50K | Every 200K | Every 300K | Every 600K | |
| Fuser | | | | | |
| Fuser | -- | -- | -- | Replace and reset the 600K fuser maintenance kit. | |
| Add-in image transfer | | | | | |
| Waste toner bottle area | Clean | -- | -- | -- | |
| Add-in developer | | | | | |
| Developer (K) | -- | -- | -- | Replace the developer. | |
| Developer (CMY) | -- | -- | -- | Replace the developer. | |
| HCF | | | | | |
| Pick and feed roller | Clean using a damp cloth. | -- | Replace and reset the 300K HCF maintenance kit. | -- | |
| MPF | | | | | |
| Pick and feed roller | Clean using a damp cloth. | Replace and reset the 200K MPF maintenance kit. | -- | -- | |

| Part | Every 50K | Every 200K | Every 300K | Every 600K |
|-----------------------------------|---------------------------|---|------------|------------|
| ADF | | | | |
| Feed, separator, and pick rollers | Clean using a damp cloth. | Replace and reset the 200K ADF maintenance kit. | -- | -- |
| Glass clean rollers | Clean using a damp cloth. | -- | -- | -- |
| Photo reflective sensors | Clean using a damp cloth. | -- | -- | -- |

Scheduled maintenance

An 80.xx error occurs when the printer reaches a preset number of page counts. Install the appropriate maintenance kit to maintain the print quality and reliability of the printer. Reset the maintenance counter after replacing the maintenance kit.

Maintenance kits

| Part number and kit | Maintenance kit | Contents |
|---------------------|--------------------------------------|--|
| 41X1592 | 200K ADF maintenance kit | <ul style="list-style-type: none"> • 41X1404—ADF feed and pick roller assembly • 40X9682—ADF separator roller • 41X1601—ADF separator roller spring |
| 41X1977 | 200K MPF maintenance kit | <ul style="list-style-type: none"> • 40X9615—MPF separator roller • 40X9995—MPF feed roller |
| 41X1874 | 300K HCF rollers maintenance kit | 40X9267—3000-sheet tray separator rollers (3 pieces) |
| 41X1593 | 300K transfer belt maintenance kit | <ul style="list-style-type: none"> • 41X1459—Transfer belt • 41X1484—Transfer roller • 41X1600—Pick and feed rollers |
| 41X1594 | 600K CMY developer maintenance kit | <ul style="list-style-type: none"> • 41X1595—Developer unit (C) • 41X1596—Developer unit (M) • 41X1597—Developer unit (Y) |
| 41X1598 | 600K Black developer maintenance kit | 41X1598—Developer unit (K) |
| 41X2060 | 600K Fuser maintenance kit | 41X2060—Fuser, 100 V |
| 41X2061 | 600K Fuser maintenance kit | 41X2061—Fuser, 110 V |
| 41X1860 | 600K Fuser maintenance kit | 41X1860—Fuser, 120 V |
| 41X1861 | 600K Fuser maintenance kit | 41X1861—Fuser, 230 V |

Resetting the maintenance counter


Notes:

- Always reset the maintenance counter after installing the maintenance kit.
- Follow the inspection guide in the Maintenance chapter of the service manual.
- To access the Diagnostics menu from the home screen, press ** **3 6** using the numeric keypad on the control panel.

| Page count | Service menu location |
|------------|---|
| 200K | Diagnostics menu > Printer setup > Reset Maintenance Counter > MPF roller maintenance kit reset |
| 300K | Diagnostics menu > Printer setup > Reset Maintenance Counter > HCF roller maintenance kit reset |
| 600K | Diagnostics menu > Printer setup > Reset Maintenance Counter > Fuser maintenance kit reset |

Cleaning printer parts

Cleaning the printer

 **CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock when cleaning the exterior of the printer, unplug the power cord from the electrical outlet and disconnect all cables from the printer before proceeding.

Notes:


- Perform this task after every few months.
- Damage to the printer caused by improper handling is not covered by the printer warranty.

- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2 Remove paper from the standard bin and multipurpose feeder.
- 3 Remove any dust, lint, and pieces of paper around the printer using a soft brush or vacuum.
- 4 Wipe the outside of the printer with a damp, soft, lint-free cloth.

Notes:

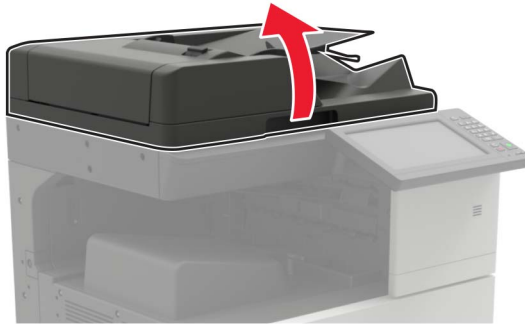
- Do not use household cleaners or detergents, as they may damage the finish of the printer.
- Make sure that all areas of the printer are dry after cleaning.

- 5 Connect the power cord to the electrical outlet, and then turn on the printer.

 **CAUTION—POTENTIAL INJURY:** To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.

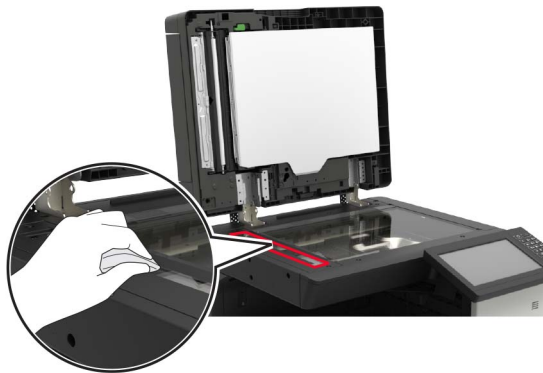
Cleaning the scanner

- 1 Open the scanner cover.



- 2 Using a damp, soft, lint-free cloth, wipe the following areas:

- ADF glass



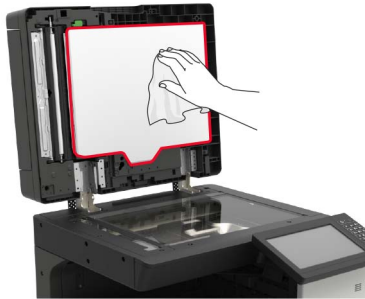
- ADF glass pad



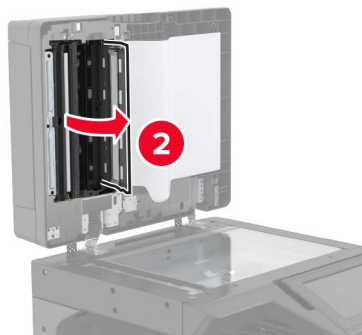
- Scanner glass



- Scanner glass pad

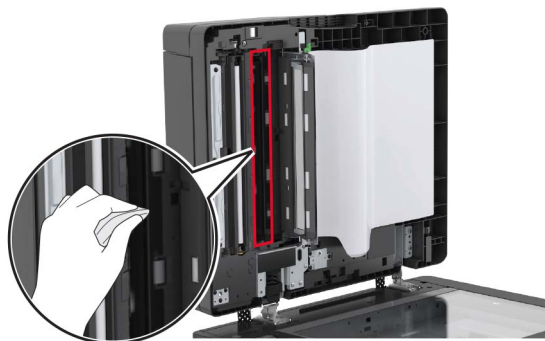


3 Open door B1.

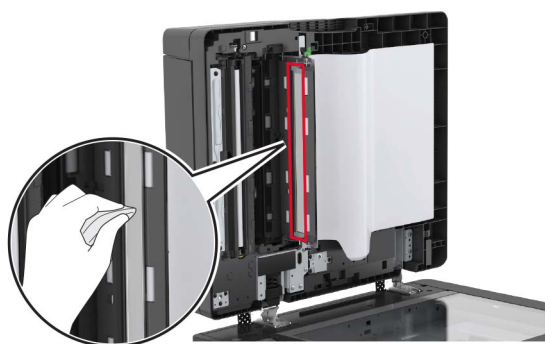
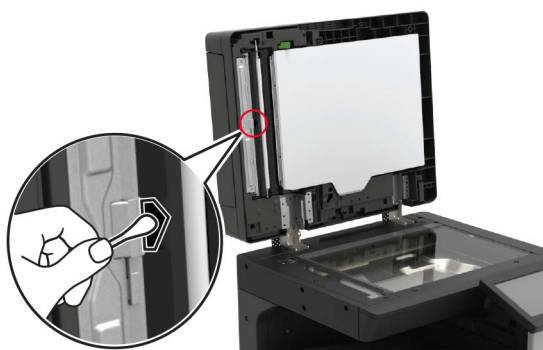


4 Wipe the following areas:

- ADF glass in door B1

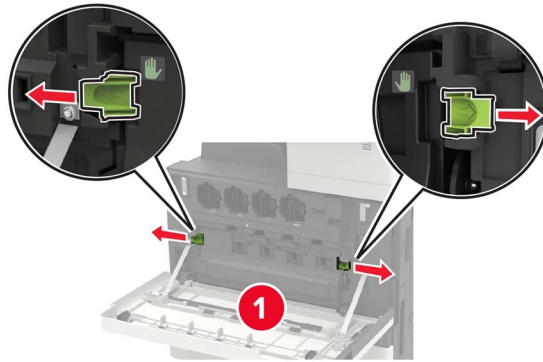


- ADF glass pad in door B1

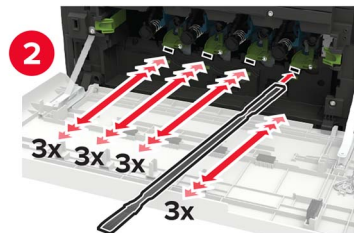
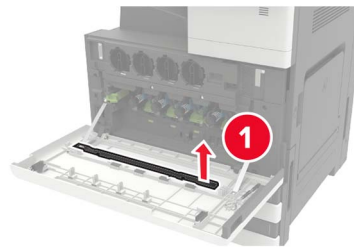
**5** Close the door.**6** Using a damp, clean cotton swab, wipe the sensor area.**7** Close the scanner cover.

Cleaning the printhead lens

- 1 Open door A.
- 2 Remove the waste toner bottle.

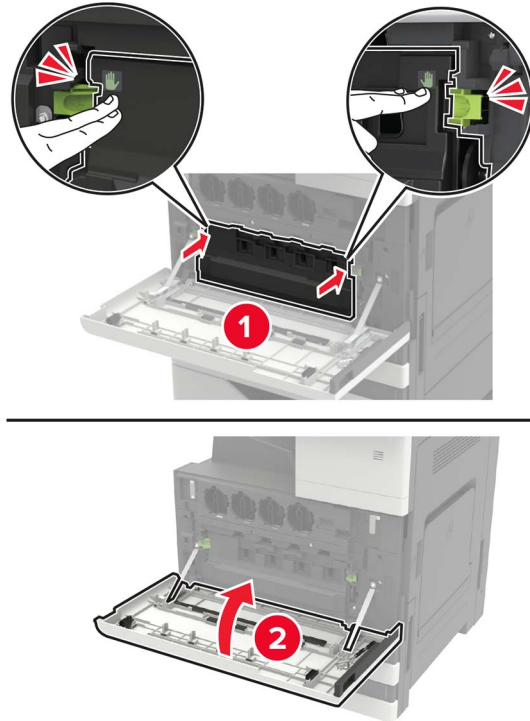


- 3 Using the printhead wiper, clean the printhead lens.



- 4 Insert the wiper back into place.

5 Insert the waste toner bottle, and then close the door.

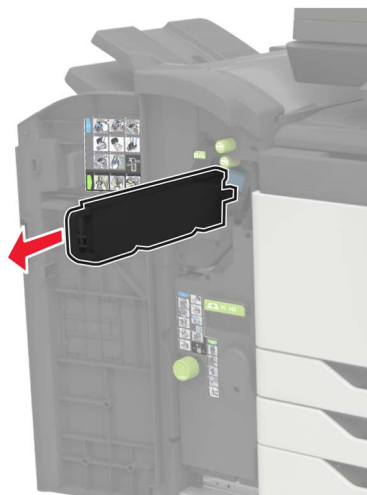


Emptying the hole punch box

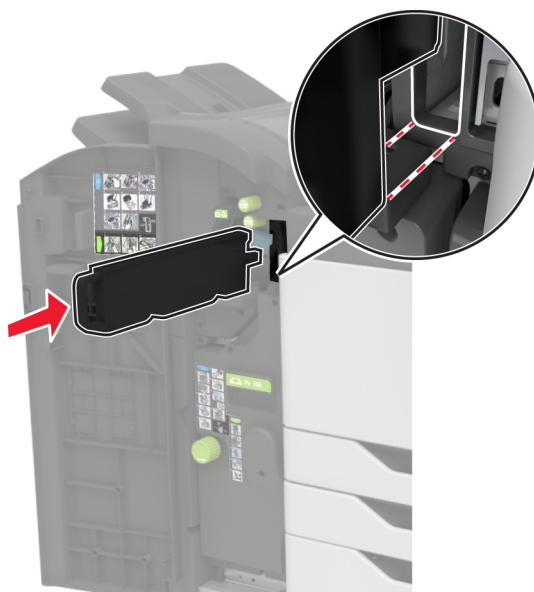
1 Open door H.



2 Remove, and then empty the hole punch box.



3 Insert the hole punch box.



4 Close the door.

Parts catalog

Legend

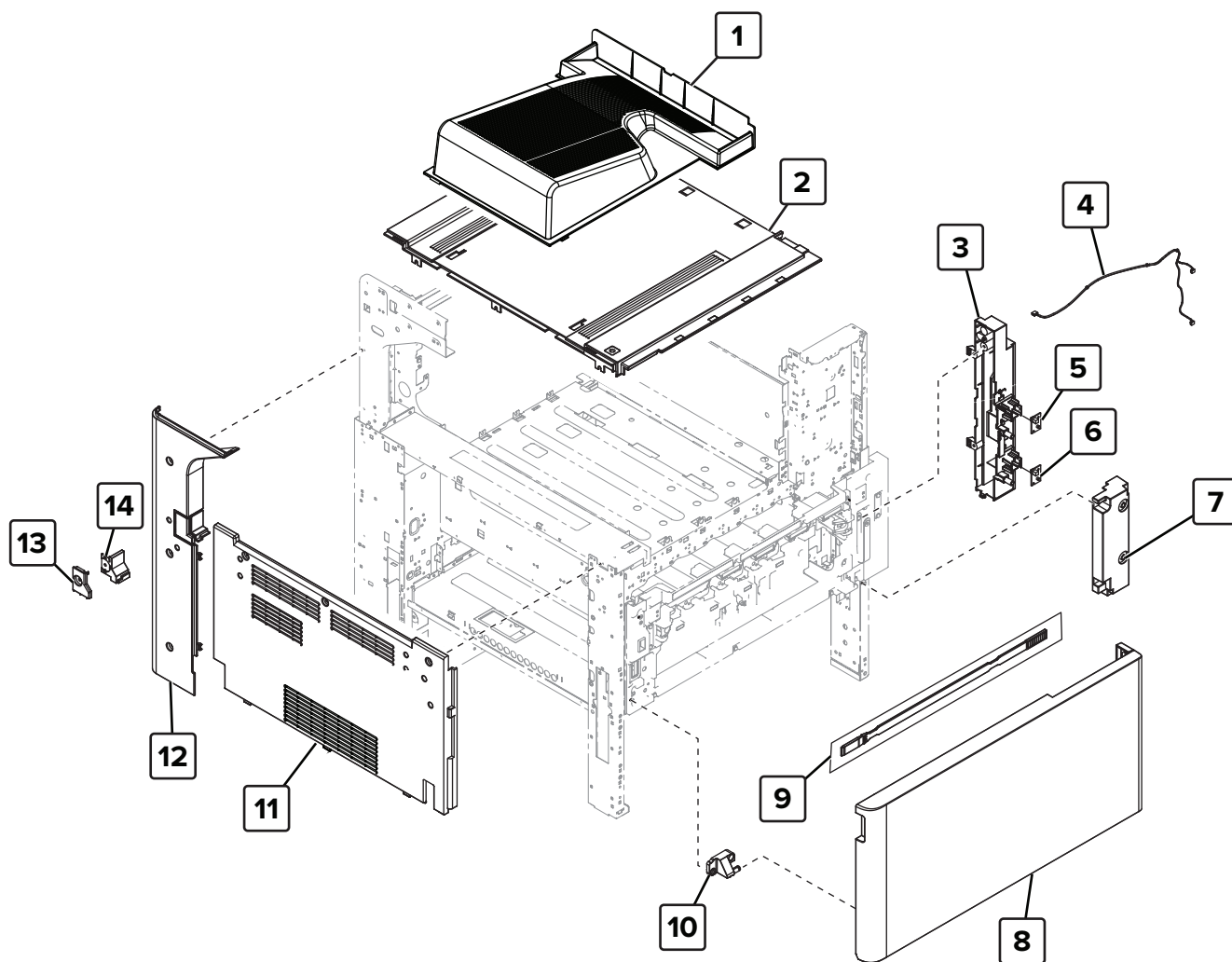
The following column headings are used in the parts catalog:

- **Asm-index**—Identifies the item in the illustration
- **P/N**—Identifies the part number of a FRU
- **Units/mach**—Refers to the number of units in a printer
- **Units/opt**—Refers to the number of units in an option
- **Units/FRU**—Refers to the number of units in a FRU
- **Description**—A brief description of the part

The following abbreviations are used in the parts catalog:

- **NS** (not shown) in the Asm-index column indicates that the part is procurable but is not shown in the illustration.
- **PP** (parts packet) in the Description column indicates that the part is contained in a parts packet.

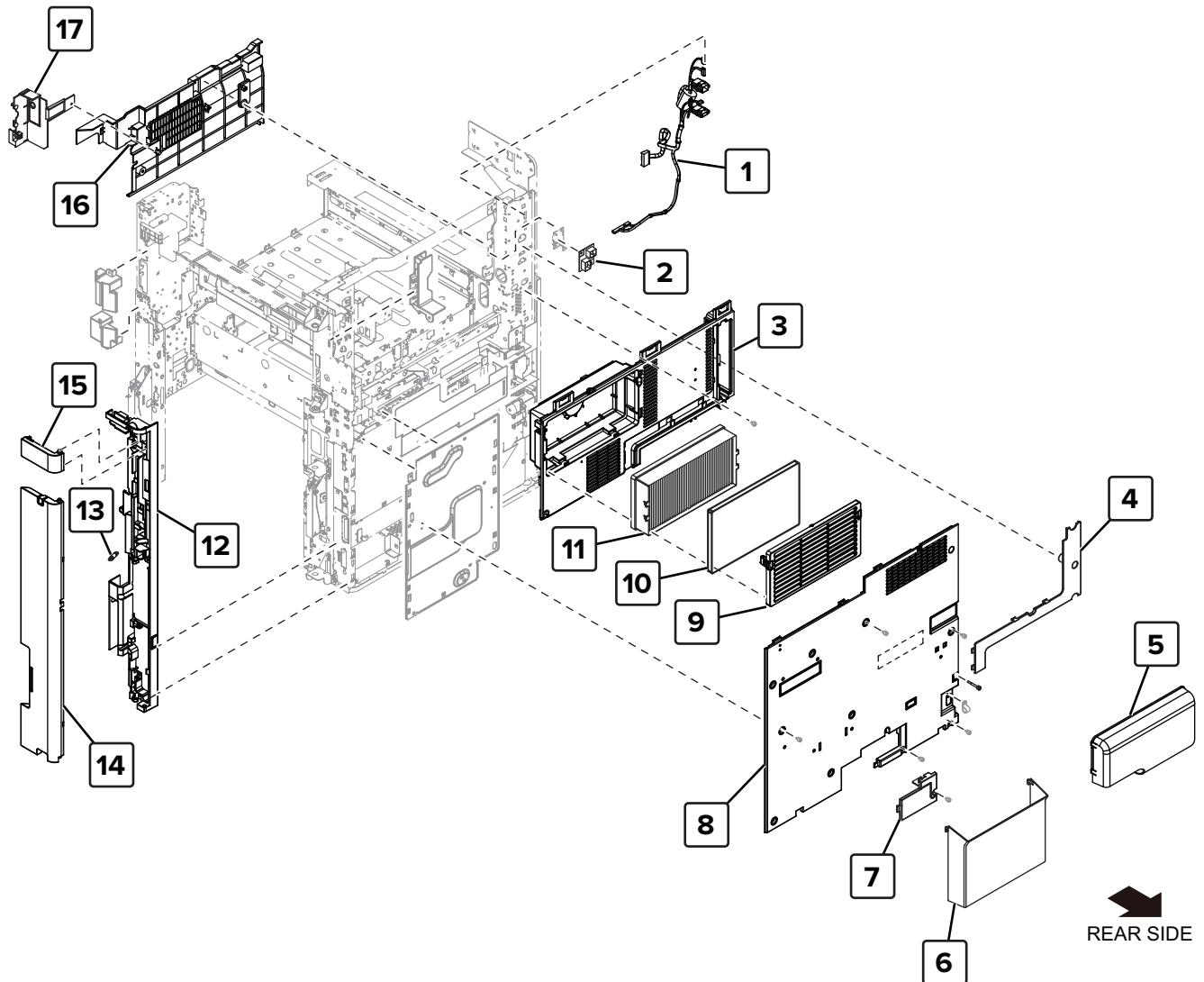
Assembly 1: Covers 1



Assembly 1: Covers 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-------------------------|--|
| 1 | 41X1942 | 1 | 1 | Standard bin | “Standard bin removal” on page 677 |
| 2 | 41X1414 | 1 | 1 | Standard bin base | “Standard bin base removal” on page 677 |
| 3 | 40X9758 | 1 | 1 | Tray empty board mount | “Tray empty board mount removal” on page 434 |
| 4 | 40X8901 | 1 | 1 | Tray empty LED cable | “Tray empty LED cable removal” on page 585 |
| 5 | 40X8903 | 1 | 1 | Tray 1 empty LED | “Tray empty LED mount removal” on page 584 |
| 6 | 40X8903 | 1 | 1 | Tray 2 empty LED | “Tray empty LED mount removal” on page 584 |
| 7 | 41X1416 | 1 | 1 | Tray empty LED cover | “Tray empty LED cover removal” on page 584 |
| 8 | 41X1565 | 1 | 1 | Front door | “Front door removal” on page 541 |
| 9 | 41X2004 | 1 | 1 | Printhead wiper | “Front door removal” on page 541 |
| 10 | 40X9761 | 1 | 1 | Bottom front door hinge | -- |
| 11 | 41X1793 | 1 | 1 | Left cover | “Left cover removal” on page 415 |
| 12 | 40X8899 | 1 | 1 | Rear left cover | “Rear left cover removal” on page 416 |
| 13 | 41X1944 | 1 | 1 | Top left corner cover 1 | “Top corner cover removal” on page 679 |
| 14 | 41X1943 | 1 | 1 | Top left corner cover 2 | “Top corner cover removal” on page 679 |

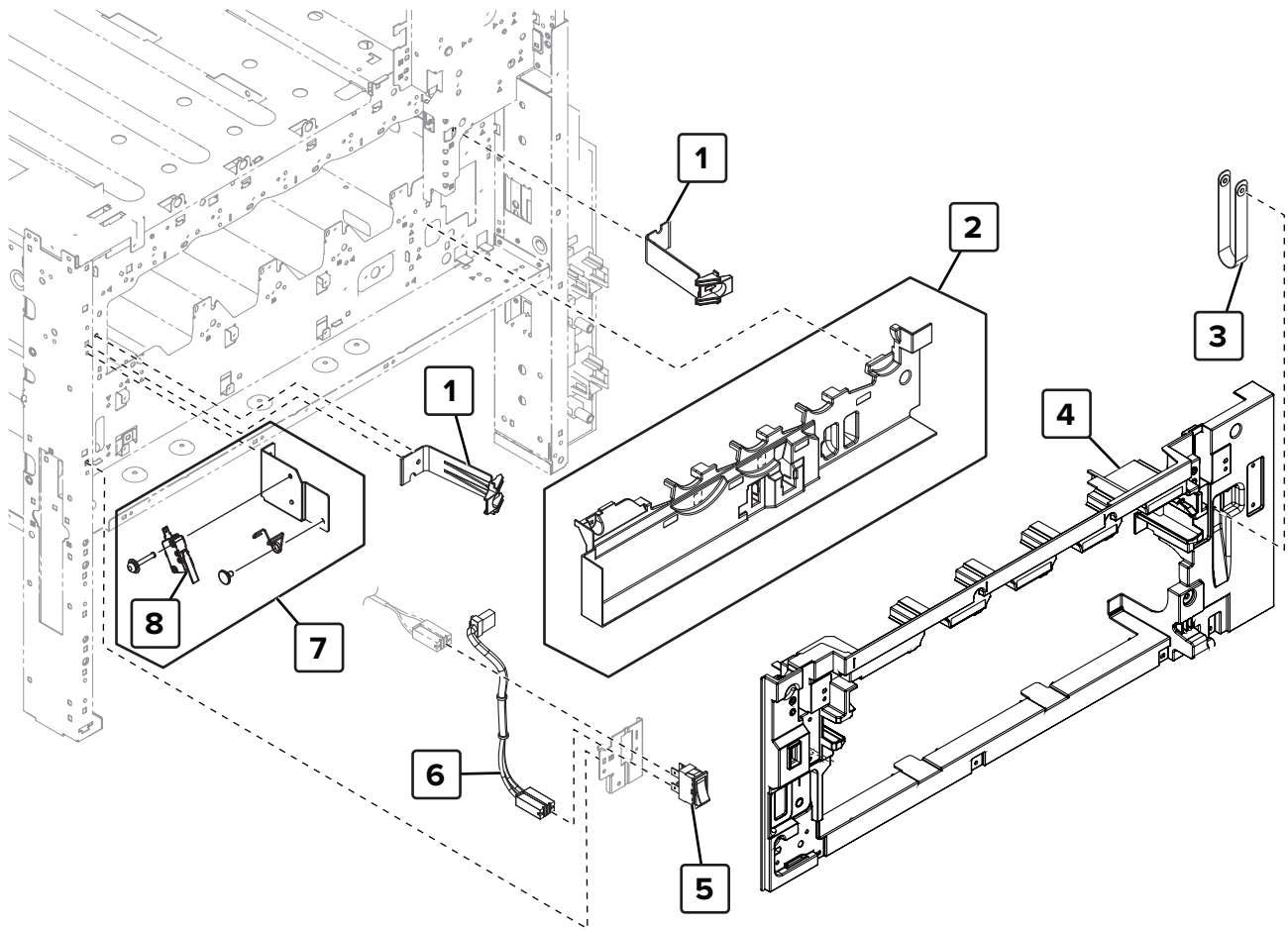
Assembly 2: Covers 2



Assembly 2: Covers 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-------------------------------|---|
| 1 | 41X1420 | 1 | 1 | Finisher interface cable | -- |
| 2 | 41X1827 | 1 | 1 | Power supply interface board | -- |
| 3 | 41X1794 | 1 | 1 | Upper rear cover | “Upper rear cover removal” on page 604 |
| 4 | 40X9762 | 1 | 1 | Scanner interface cable cover | “Scanner interface cable cover removal” on page 604 |
| 5 | 41X1837 | 1 | 1 | Air deflector hood | “Air deflector hood removal” on page 602 |
| 6 | 41X1927 | 1 | 1 | Document holder | -- |
| 7 | 41X1926 | 1 | 1 | Option interface cable cover | “Option interface cable cover removal” on page 607 |
| 8 | 41X1795 | 1 | 1 | Lower rear cover | “Lower rear cover removal” on page 606 |
| 9 | 41X1796 | 1 | 1 | Fuser exhaust grill | “Fuser exhaust grill removal” on page 603 |
| 10 | 41X2029 | 1 | 1 | Odor filter | -- |
| 11 | 41X1797 | 1 | 1 | Fuser exhaust filter | “Fuser exhaust filter removal” on page 603 |
| 12 | 41X1425 | 1 | 1 | Port mount | “Port mount removal” on page 433 |
| 13 | 41X1824 | 1 | 1 | Port mount cover spring | -- |
| 14 | 41X1426 | 1 | 1 | Port access door | “Port access door removal” on page 432 |
| 15 | 41X1798 | 1 | 1 | Port access door extension | -- |
| 16 | 41X1825 | 1 | 1 | Bin side cover | “Bin side cover removal” on page 679 |
| 17 | 41X1429 | 1 | 1 | Right bin side cover | “Right bin side cover removal” on page 678 |

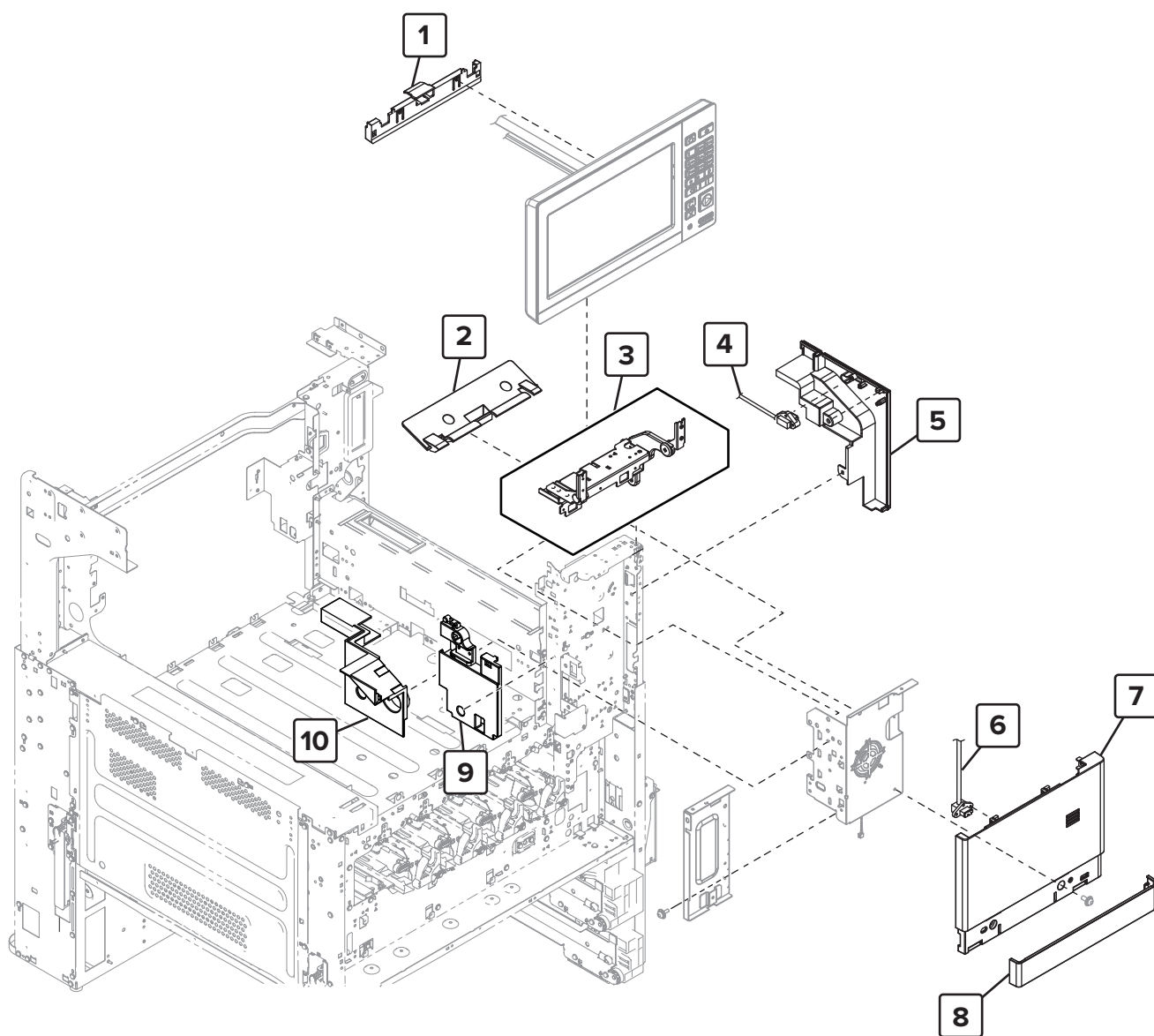
Assembly 3: Inner covers



Assembly 3: Inner covers

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------------|--|
| 1 | 40X8915 | 2 | 1 | Waste toner bottle latch | “Waste toner bottle latch removal” on page 580 |
| 2 | 41X1431 | 1 | 1 | Front inner cover | “Front inner cover removal” on page 571 |
| 3 | 40X8919 | 1 | 1 | Lower front door strap | -- |
| 4 | 41X1566 | 1 | 1 | Waste toner door mount | “Waste toner door mount removal” on page 572 |
| 5 | 40X8917 | 1 | 1 | Main power switch | “Main power switch and main power cable removal” on page 588 |
| 6 | 41X1799 | 1 | 1 | Main power switch cable | “Main power switch and main power cable removal” on page 588 |
| 7 | 40X9963 | 1 | 1 | Front door switch | “Door switch removal” on page 591 |
| 8 | 40X9527 | 1 | 1 | Door switch | “Door switch removal” on page 591 |

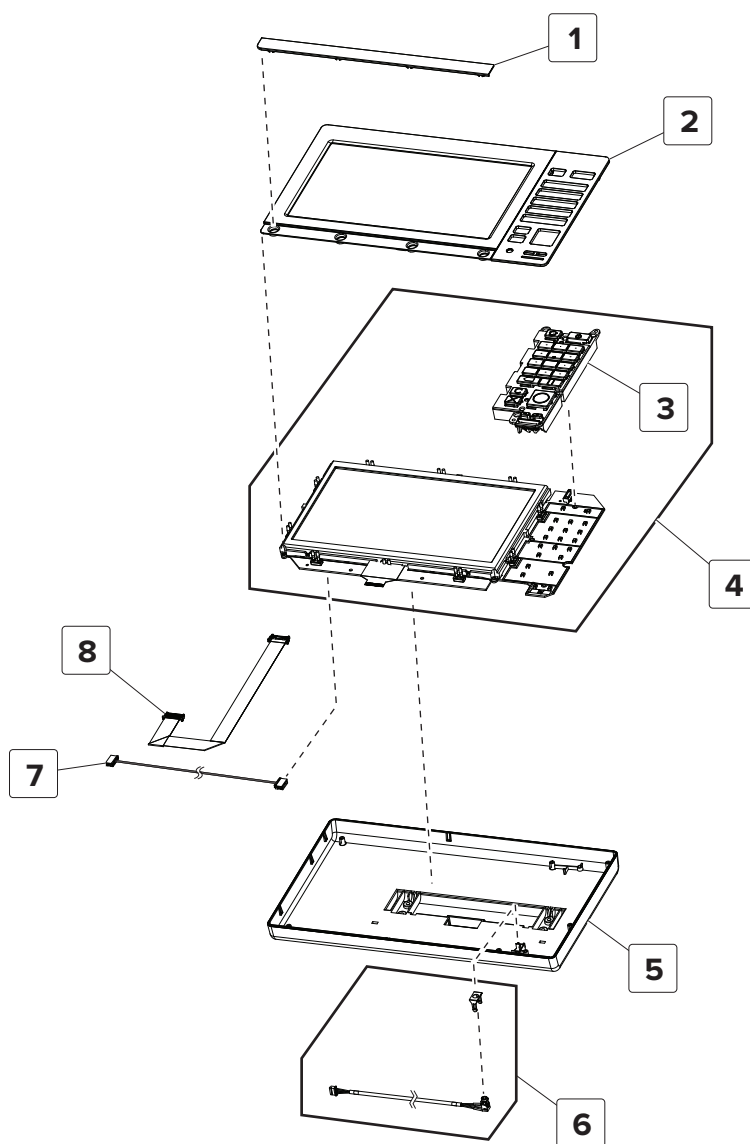
Assembly 4: Control panel 1



Assembly 4: Control panel 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------------------|---|
| 1 | 41X1922 | 1 | 1 | Control panel cable guide cover | -- |
| 2 | 41X1921 | 1 | 1 | Control panel support base | “Control panel support base removal” on page 546 |
| 3 | 41X1430 | 1 | 1 | Control panel support mount | -- |
| 4 | 41X1923 | 1 | 1 | USB extension cable | -- |
| 5 | 41X1838 | 1 | 1 | USB port cover | “USB port cover removal” on page 437 |
| 6 | 41X1924 | 1 | 1 | USB cable | -- |
| 7 | 41X1763 | 1 | 1 | Speaker cover | “Speaker cover removal” on page 542 |
| 8 | 41X1764 | 1 | 1 | Speaker bottom cover | “Speaker bottom cover removal” on page 542 |
| 9 | 40X9967 | 1 | 1 | Control panel cable guide lower cover | “Control panel cable guide lower cover removal” on page 545 |
| 10 | 41X1765 | 1 | 1 | Control panel cable guide upper cover | “Control panel cable guide upper cover removal” on page 544 |
| NS | 41X2111 | 1 | 1 | Speaker | “Speaker removal” on page 558 |

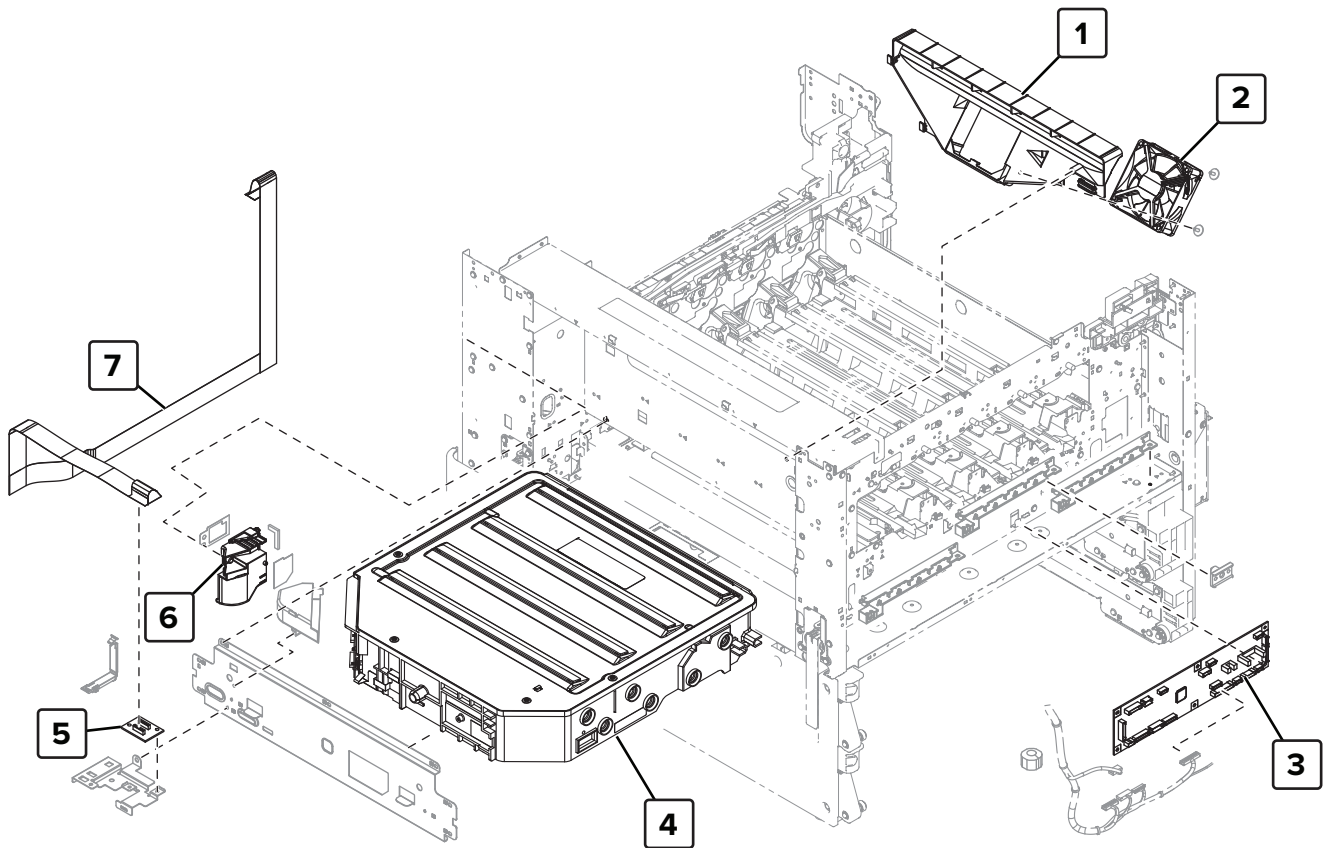
Assembly 5: Control panel 2



Assembly 5: Control panel 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------------------|---|
| 1 | 41X2085 | 1 | 1 | Model plate, XC9235 | -- |
| 1 | 41X2081 | 1 | 1 | Model plate, CX920 | -- |
| 1 | 41X2077 | 1 | 1 | Model plate, CX921 | -- |
| 1 | 41X2109 | 1 | 1 | Model plate, CX927 | -- |
| 2 | 41X1502 | 1 | 1 | 10.1 inch control panel front cover | “Control panel (10.1 inch) bezel removal” on page 548 |
| 3 | 41X0224 | 1 | 1 | 10.1 inch control panel button kit | “Keypad removal” on page 555 |
| 4 | 41X2276 | 1 | 1 | 10.1 inch control panel board | “Control panel (10.1 inch) board removal” on page 549 |
| 5 | 41X1441 | 1 | 1 | 10.1 inch control panel support cover | “Control panel (10.1 inch) support cover removal” on page 550 |
| 6 | 41X1478 | 1 | 1 | Headphone Jack | “Control panel (10.1 inch) support cover removal” on page 550 |
| 7 | 41X1528 | 1 | 1 | 10.1 inch control panel power cable | -- |
| 8 | 41X1454 | 1 | 1 | 10.1 inch control panel FFC | “Control panel FFC removal” on page 551 |

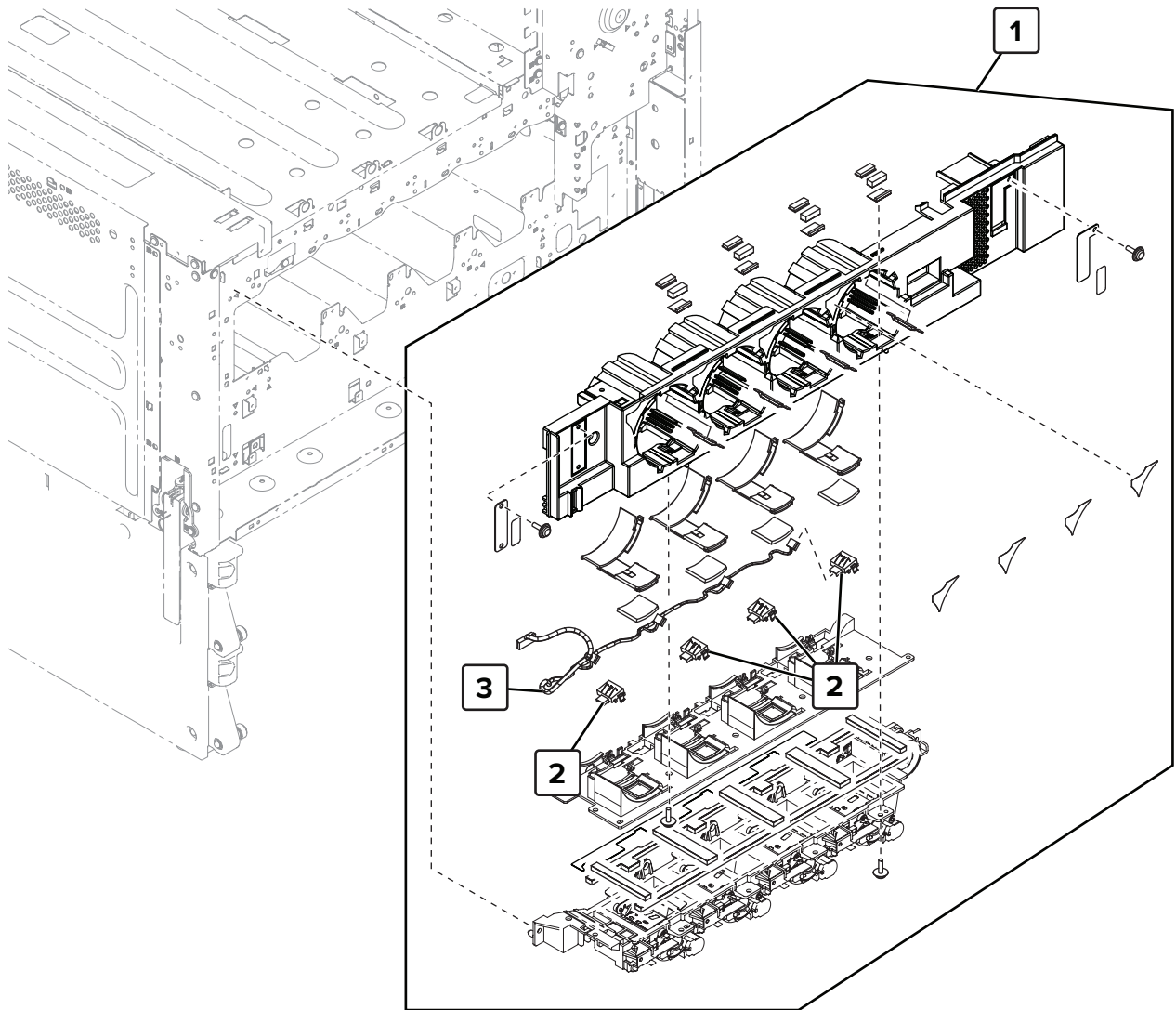
Assembly 6: Printhead



Assembly 6: Printhead

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------|--|
| 1 | 41X1447 | 1 | 1 | Transfer belt duct | “Transfer belt fan and duct removal” on page 594 |
| 2 | 40X8945 | 1 | 1 | Transfer belt fan | “Transfer belt fan and duct removal” on page 594 |
| 3 | 41X1567 | 1 | 1 | Image controller board | “Image controller board removal” on page 571 |
| 4 | 41X1801 | 1 | 1 | Printhead | “Printhead removal” on page 424 |
| 5 | 41X1800 | 1 | 1 | Printhead relay board | “Printhead relay board removal” on page 427 |
| 6 | 41X1415 | 1 | 1 | Toner filter duct | -- |
| 7 | 41X1450 | 1 | 1 | Printhead FFC | “Printhead FFC removal” on page 622 |

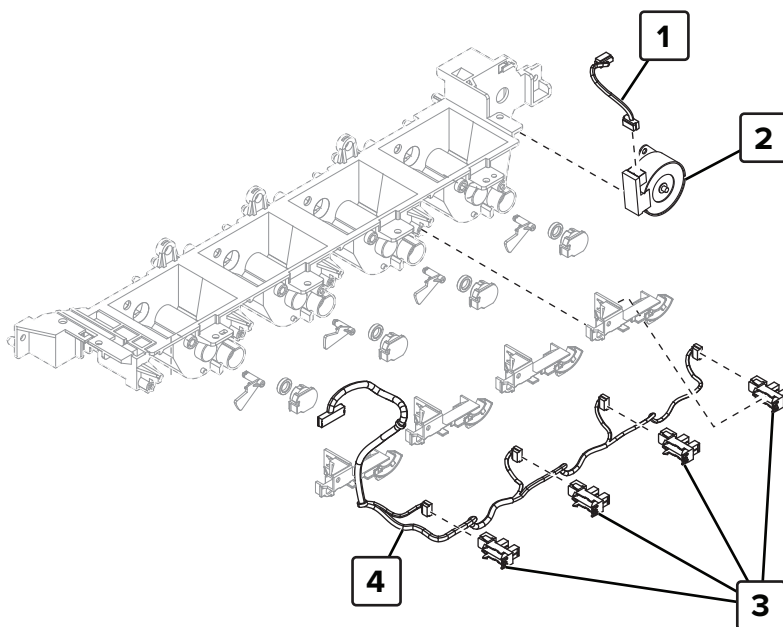
Assembly 7: Toner supply 1



Assembly 7: Toner supply 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-------------------------------------|---|
| 1 | 41X1451 | 1 | 1 | Toner agitator | “Toner agitator removal” on page 592 |
| 2 | 40X8962 | 4 | 1 | Toner cartridge contact | “Toner cartridge contact removal” on page 576 |
| 3 | 41X1619 | 1 | 1 | Toner cartridge relay contact cable | -- |

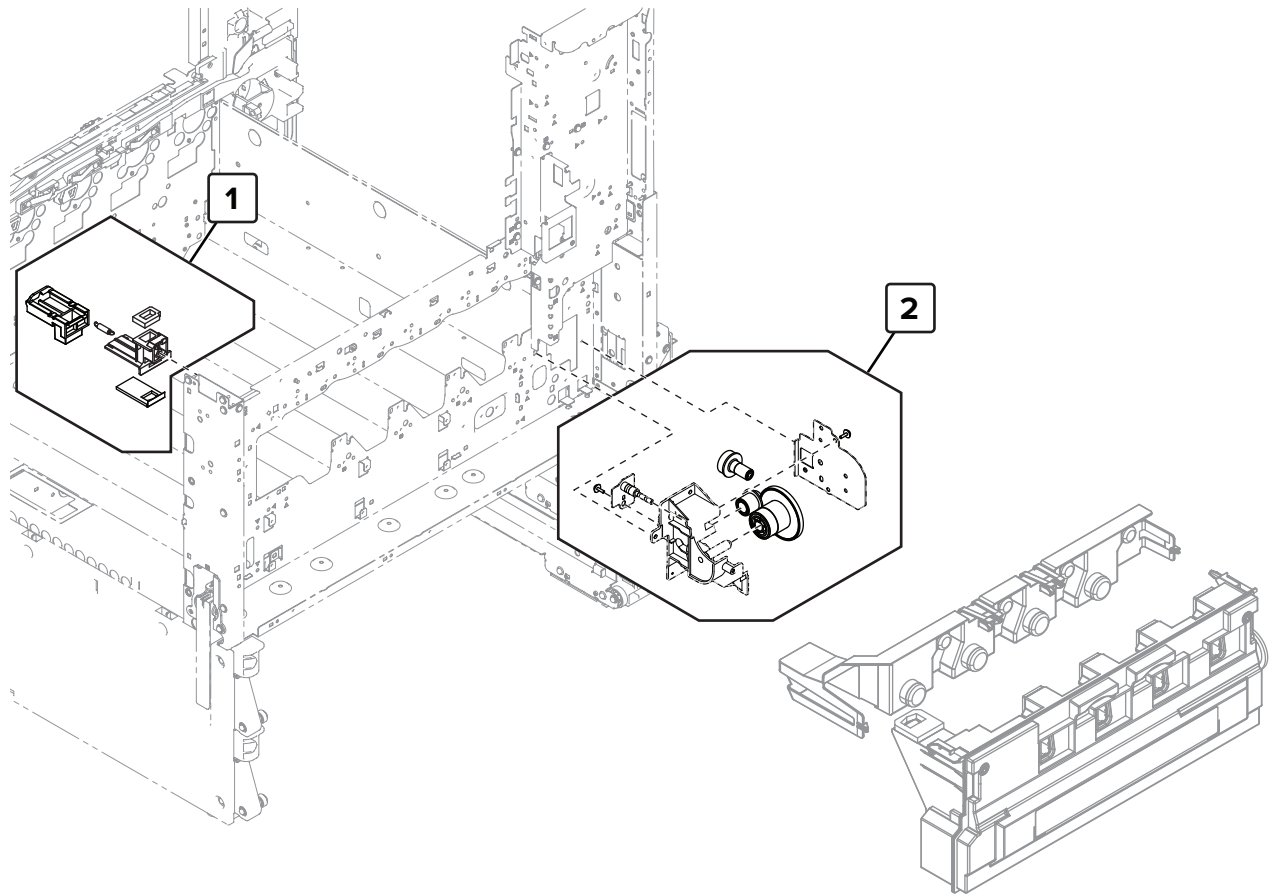
Assembly 8: Toner supply 2



Assembly 8: Toner supply 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------------|--|
| 1 | 40X8957 | 1 | 1 | Toner supply motor cable | “K toner supply motor cable removal” on page 682 |
| 2 | 41X1452 | 1 | 1 | Motor (K toner supply) | “Motor (K toner supply) removal” on page 597 |
| 3 | 41X1391 | 4 | 1 | Sensor (toner empty) | “Sensor (toner empty) removal” on page 577 |
| 4 | 41X1453 | 1 | 1 | Toner empty sensor cable | -- |

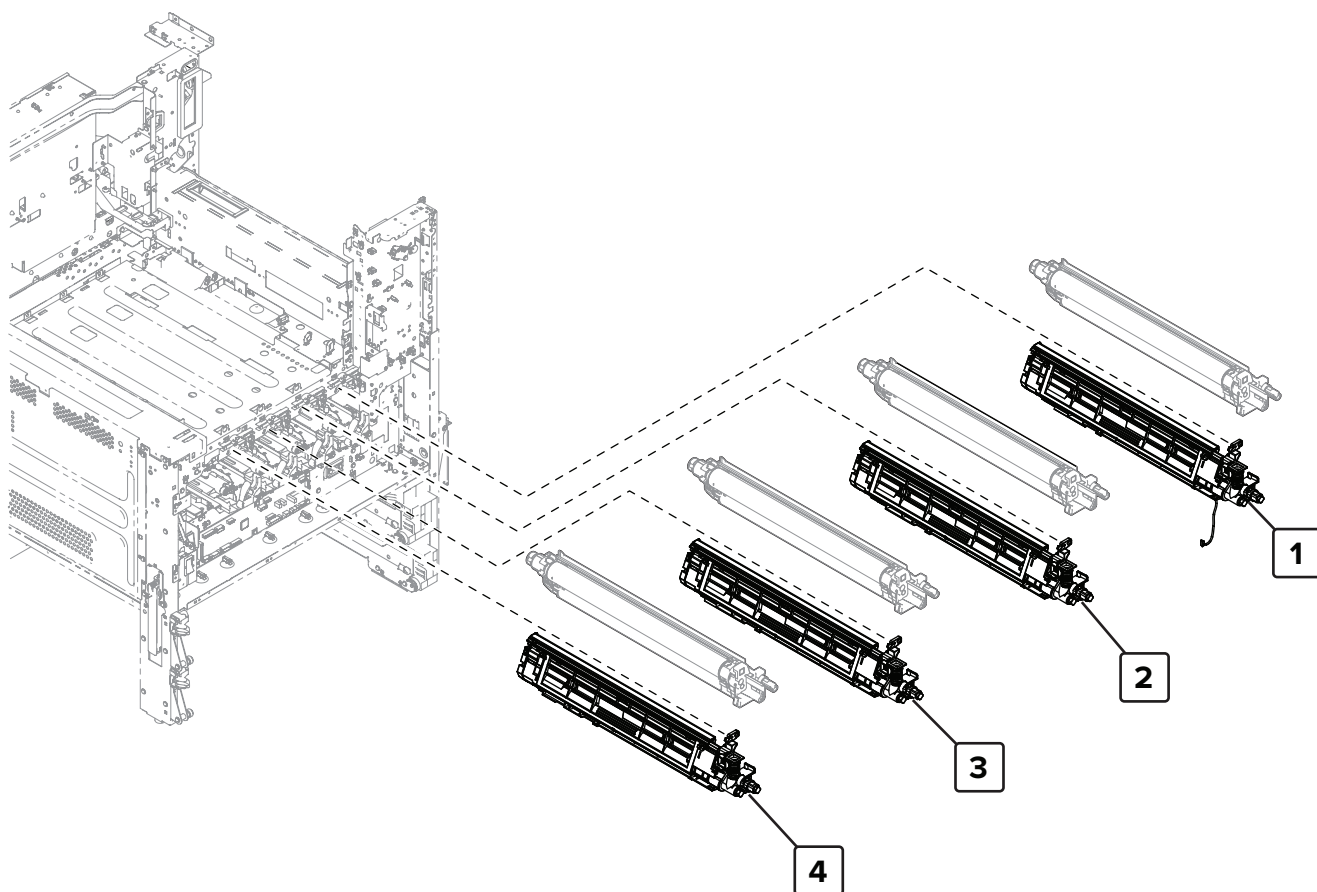
Assembly 9: Waste toner



Assembly 9: Waste toner

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-------------------|---|
| 1 | 40X8959 | 1 | 1 | Waste toner duct | “Waste toner duct removal” on page 601 |
| 2 | 41X1803 | 1 | 1 | Waste toner drive | “Waste toner drive removal” on page 599 |

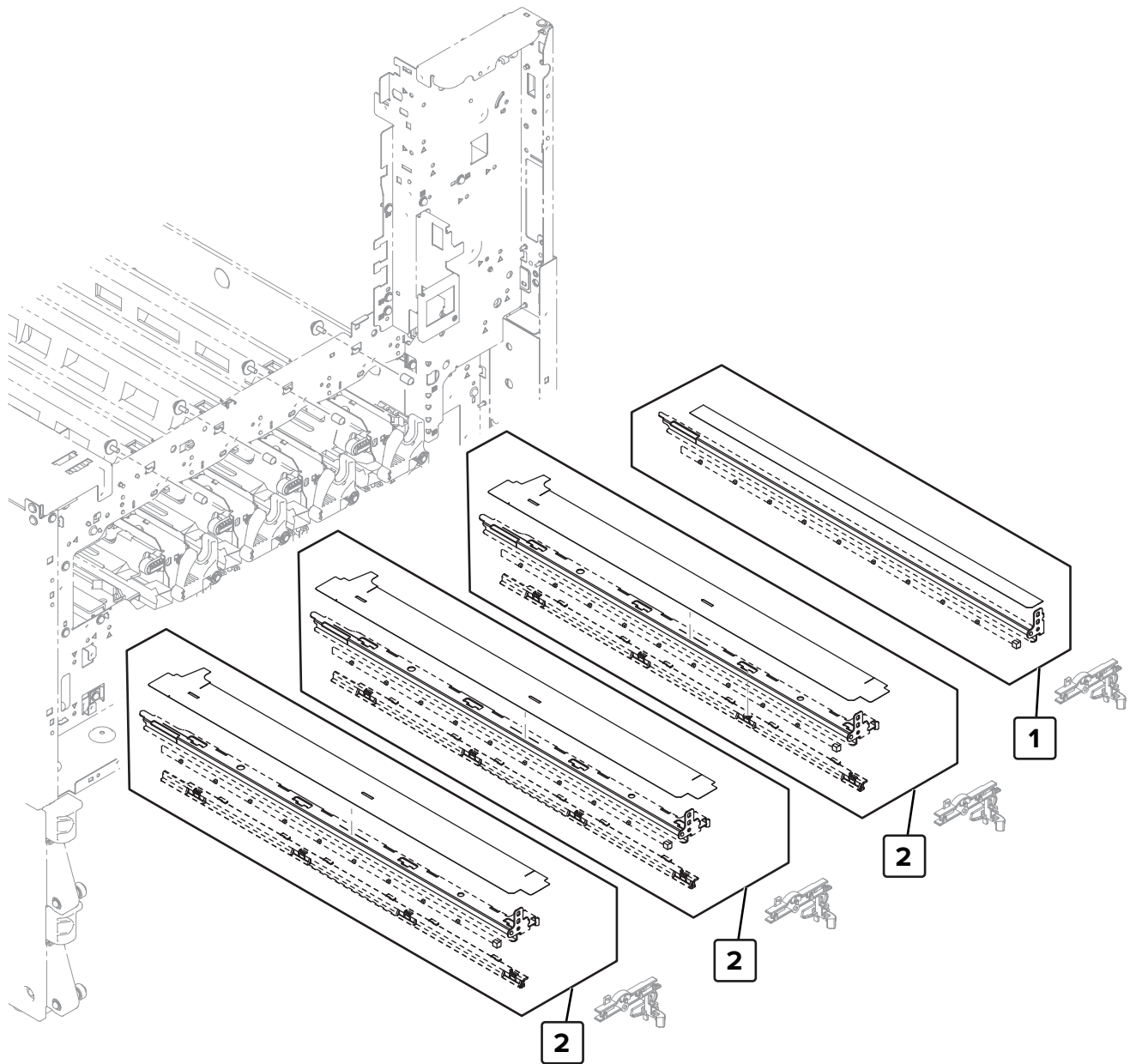
Assembly 10: Developer



Assembly 10: Developer

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------|--|
| 1 | 41X1598 | 1 | 1 | Developer unit (K) | “Developer unit (K) removal” on page 576 |
| 2 | 41X1595 | 1 | 1 | Developer unit (C) | “Developer unit (C) removal” on page 575 |
| 3 | 41X1596 | 1 | 1 | Developer unit (M) | “Developer unit (M) removal” on page 574 |
| 4 | 41X1597 | 1 | 1 | Developer unit (Y) | “Developer unit (Y) removal” on page 573 |

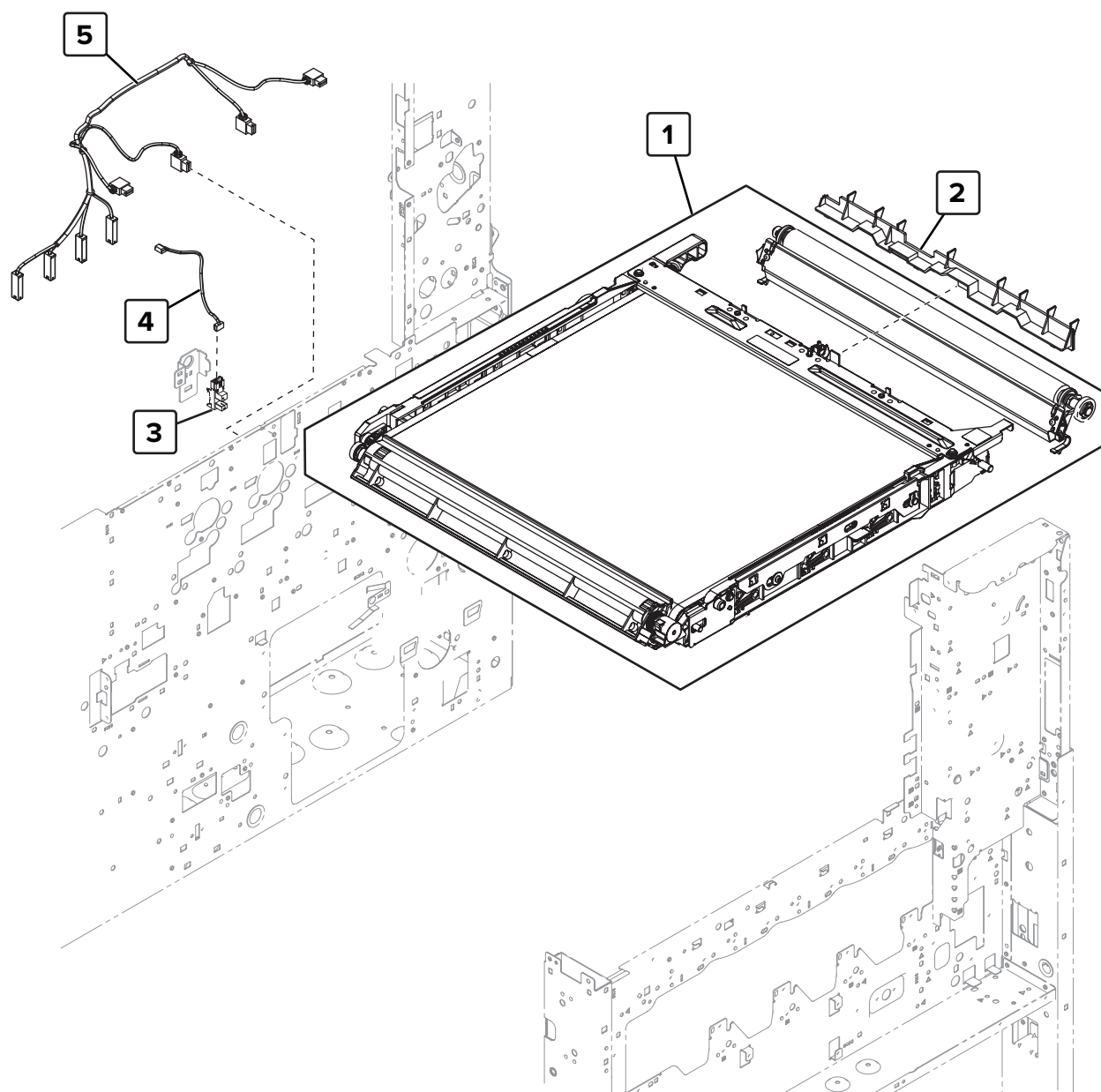
Assembly 11: Eraser



Assembly 11: Eraser

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------|---|
| 1 | 41X1457 | 1 | 1 | Erase LED (K) | “Erase LED removal” on page 587 |
| 2 | 41X1456 | 3 | 1 | Erase LED (CMY) | “Erase LED removal” on page 587 |

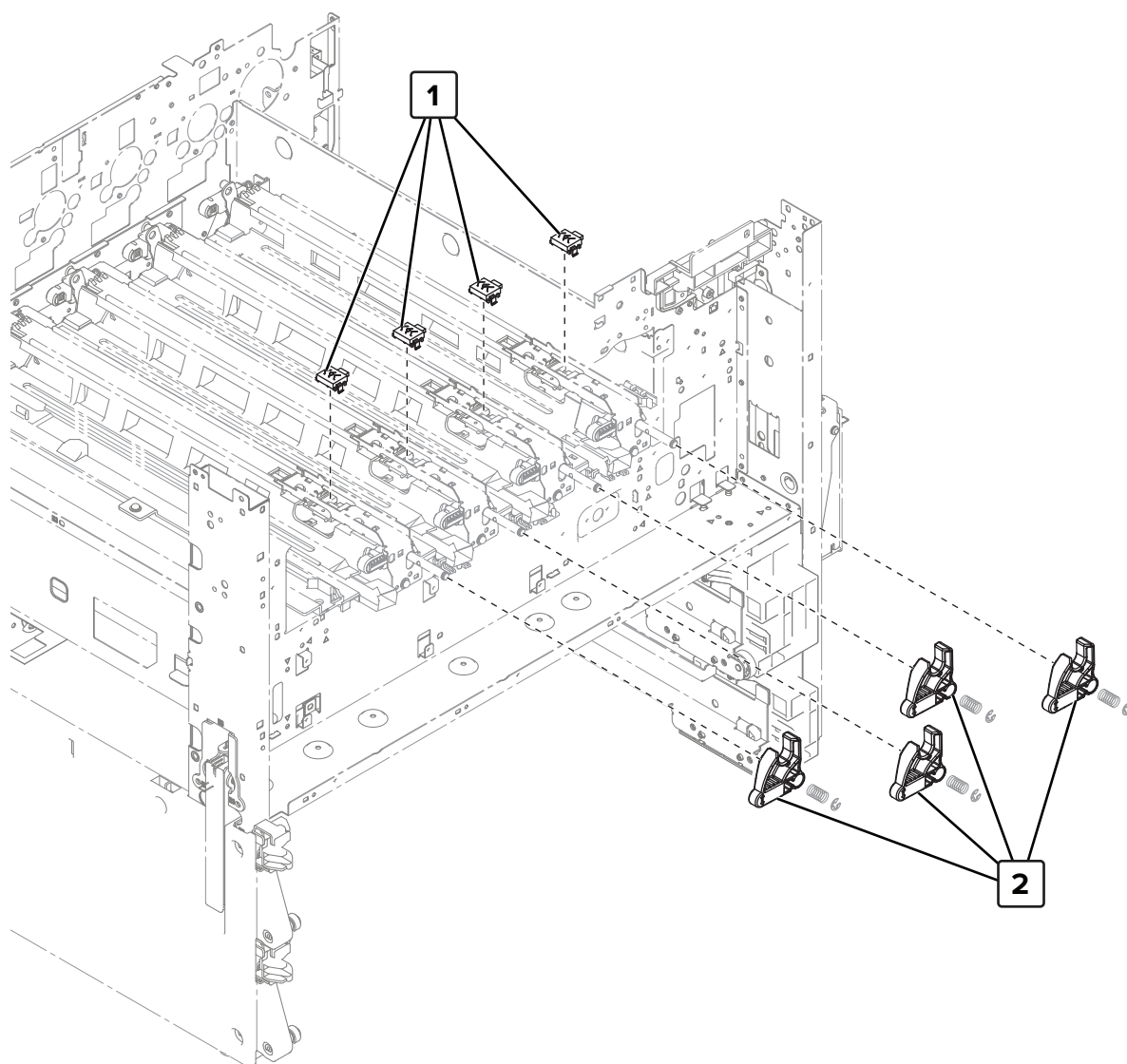
Assembly 12: Transfer belt



Assembly 12: Transfer belt

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------------------------|--|
| 1 | 41X1459 | 1 | 1 | Transfer belt | “Transfer belt removal” on page 438 |
| 2 | 40X9979 | 1 | 1 | Transfer belt paper guide | “Transfer belt removal” on page 438 |
| 3 | 41X1444 | 1 | 1 | Sensor (CMY retract) | -- |
| 4 | 41X1461 | 1 | 1 | First transfer pressure sensor cable | “First transfer pressure sensor cable removal” on page 661 |
| 5 | 41X1462 | 1 | 1 | Transfer belt charge cable | “Transfer belt charge cable removal” on page 662 |

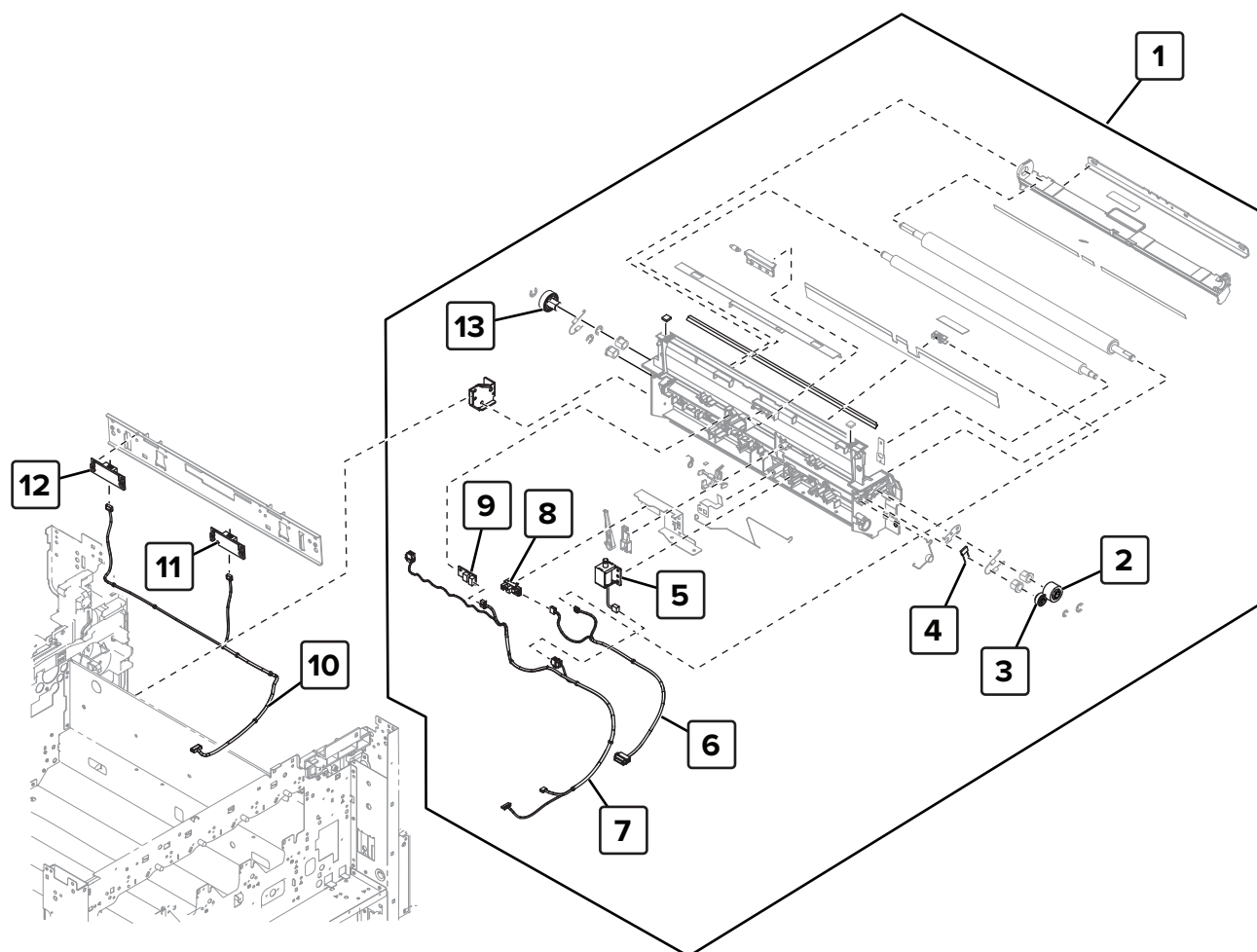
Assembly 13: Photoconductor



Assembly 13: Photoconductor

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------------|--|
| 1 | 40X8962 | 4 | 1 | Photoconductor relay contact | “Photoconductor relay contact removal” on page 581 |
| 2 | 40X9978 | 4 | 1 | Photoconductor release lever | “Photoconductor release lever removal” on page 579 |

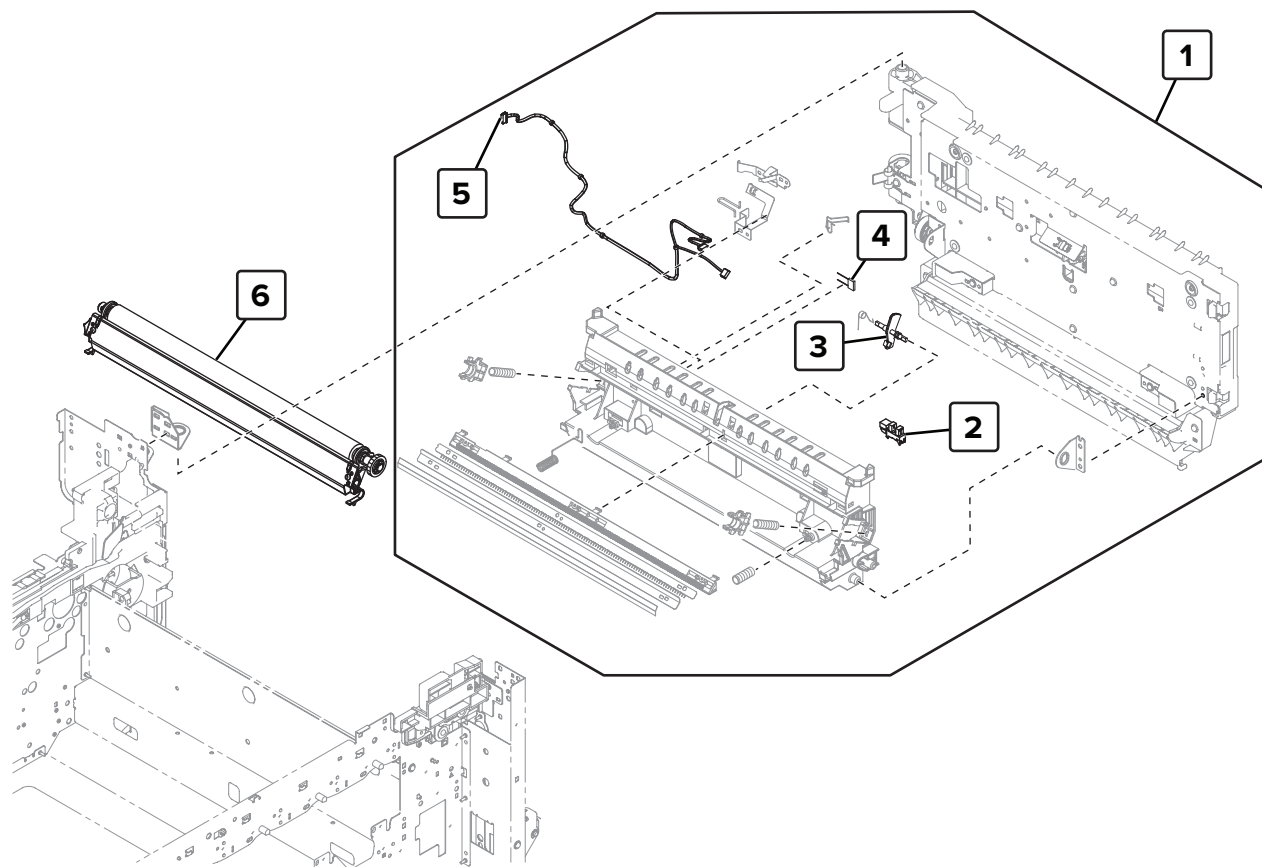
Assembly 14: Registration transport



Assembly 14: Registration transport

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------------|---|
| 1 | 41X1808 | 1 | 1 | Registration transport assembly | “Registration transport assembly removal” on page 499 |
| 2 | 40X9706 | 1 | 1 | Registration primary gear | “Registration primary gear removal” on page 504 |
| 3 | 40X9707 | 1 | 1 | Registration secondary gear | “Registration secondary gear removal” on page 505 |
| 4 | 40X9009 | 1 | 1 | Registration transport resistor | “Registration transport resistor removal” on page 516 |
| 5 | 40X8998 | 1 | 1 | Toner density solenoid | “Toner density solenoid removal” on page 502 |
| 6 | 41X1480 | 1 | 1 | Registration unit sensor cable | “Registration unit sensor cable removal” on page 521 |
| 7 | 41X1479 | 1 | 1 | Humidity sensor cable | -- |
| 8 | 41X1391 | 1 | 1 | Sensor (registration) | “Sensor (registration) removal” on page 503 |
| 9 | 41X1477 | 1 | 1 | Sensor (registration humidity) | “Sensor (registration humidity) removal” on page 501 |
| 10 | 41X1482 | 1 | 1 | Toner density sensor cable | “Toner density sensor cable removal” on page 526 |
| 11 | 41X1476 | 1 | 1 | Sensor (front toner density) | “Sensor (front toner density) removal” on page 523 |
| 12 | 40X8999 | 1 | 1 | Sensor (rear toner density) | “Sensor (rear toner density) removal” on page 525 |
| 13 | 41X1806 | 1 | 1 | Registration clutch | “Registration clutch removal” on page 516 |

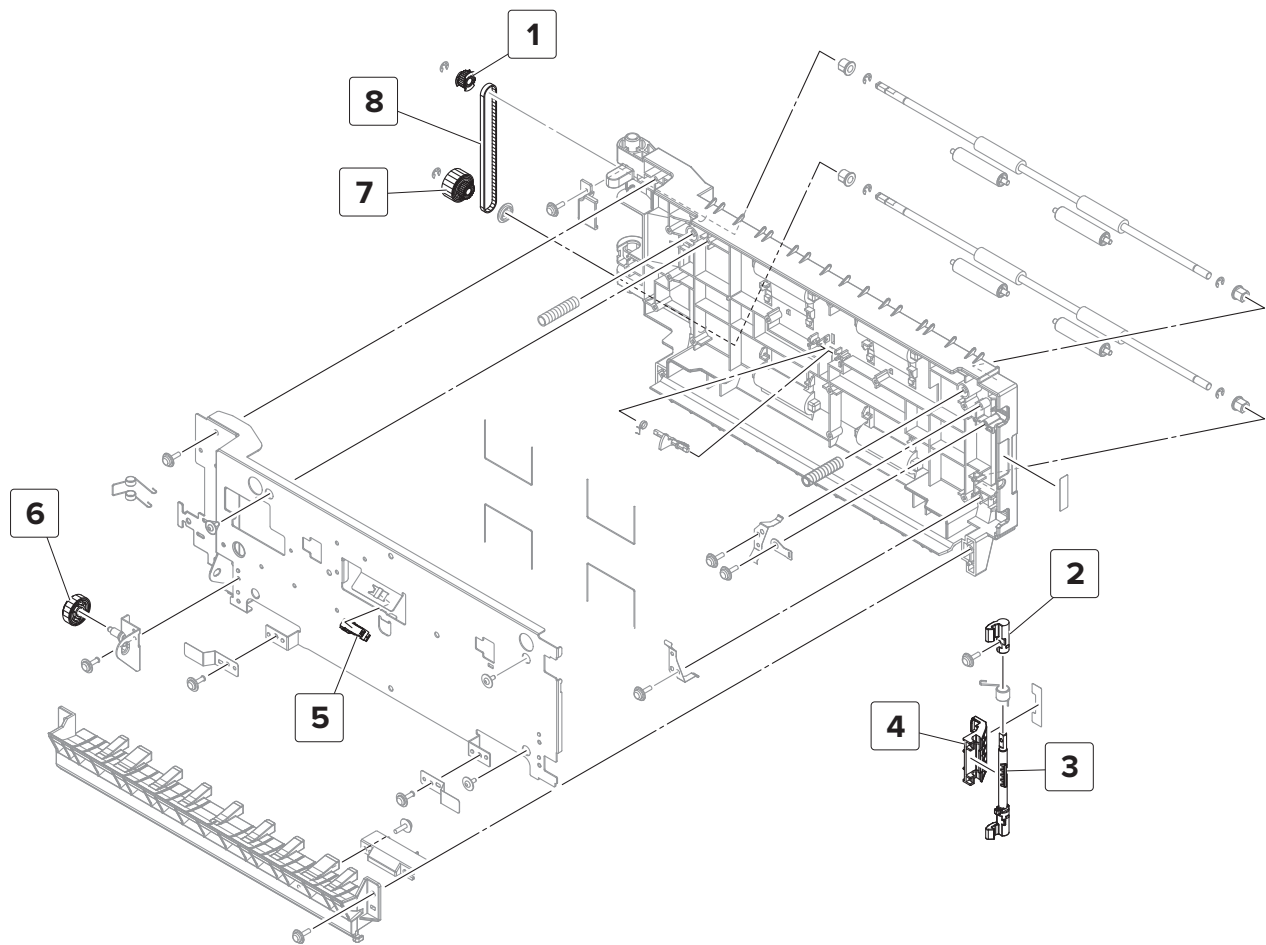
Assembly 15: Transfer



Assembly 15: Transfer

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------------|--|
| 1 | 41X1809 | 1 | 1 | Registration unit assembly | “Registration unit assembly removal” on page 507 |
| 2 | 41X1391 | 1 | 1 | Sensor (fusing speed) | “Sensor (fusing speed) removal” on page 510 |
| 3 | 41X1816 | 1 | 1 | Fusing speed sensor actuator | “Fusing speed sensor actuator removal” on page 510 |
| 4 | 40X9009 | 1 | 1 | Registration unit resistor | “Registration unit resistor removal” on page 520 |
| 5 | 40X9990 | 1 | 1 | Fusing speed sensor cable | -- |
| 6 | 41X1484 | 1 | 1 | Transfer roller | “Transfer roller removal” on page 428 |

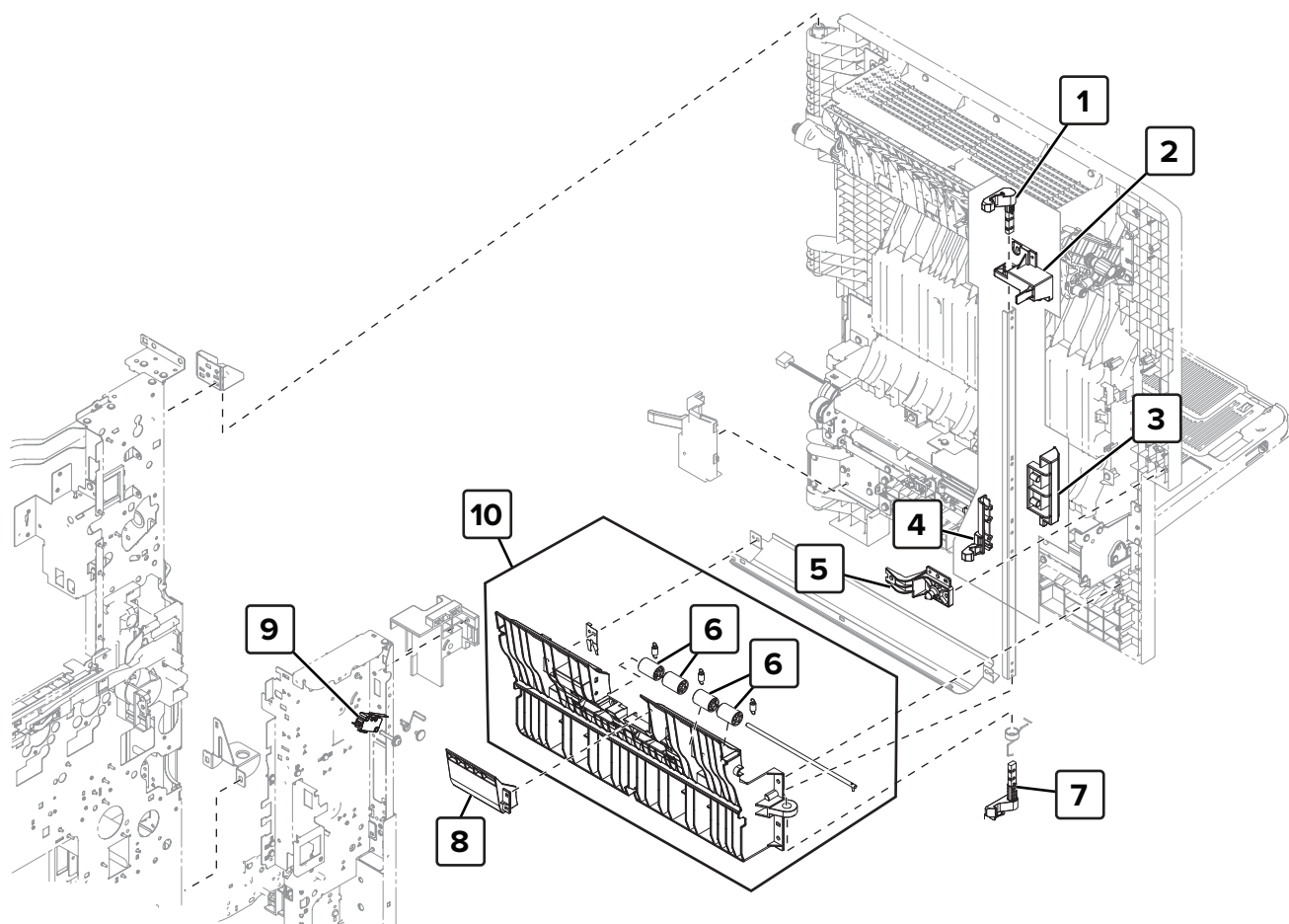
Assembly 16: Registration unit



Assembly 16: Registration unit

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------------------|--|
| 1 | 40X9012 | 1 | 1 | Registration unit gear | “Registration unit gear removal” on page 517 |
| 2 | 40X9992 | 1 | 1 | Registration unit lock | “Registration unit handle removal” on page 522 |
| 3 | 40X9993 | 1 | 1 | Registration unit lock shaft | “Registration unit handle removal” on page 522 |
| 4 | 40X9994 | 1 | 1 | Registration unit handle | “Registration unit handle removal” on page 522 |
| 5 | 41X1391 | 1 | 1 | Sensor (duplex pass through 2) | “Sensor (duplex pass through 2) removal” on page 511 |
| 6 | 40X9710 | 1 | 1 | Lower registration gear | “Lower registration gear removal” on page 515 |
| 7 | 40X9991 | 1 | 1 | Registration drive gear | “Registration drive gear removal” on page 513 |
| 8 | 40X9013 | 1 | 1 | Registration drive belt | “Registration drive belt removal” on page 512 |

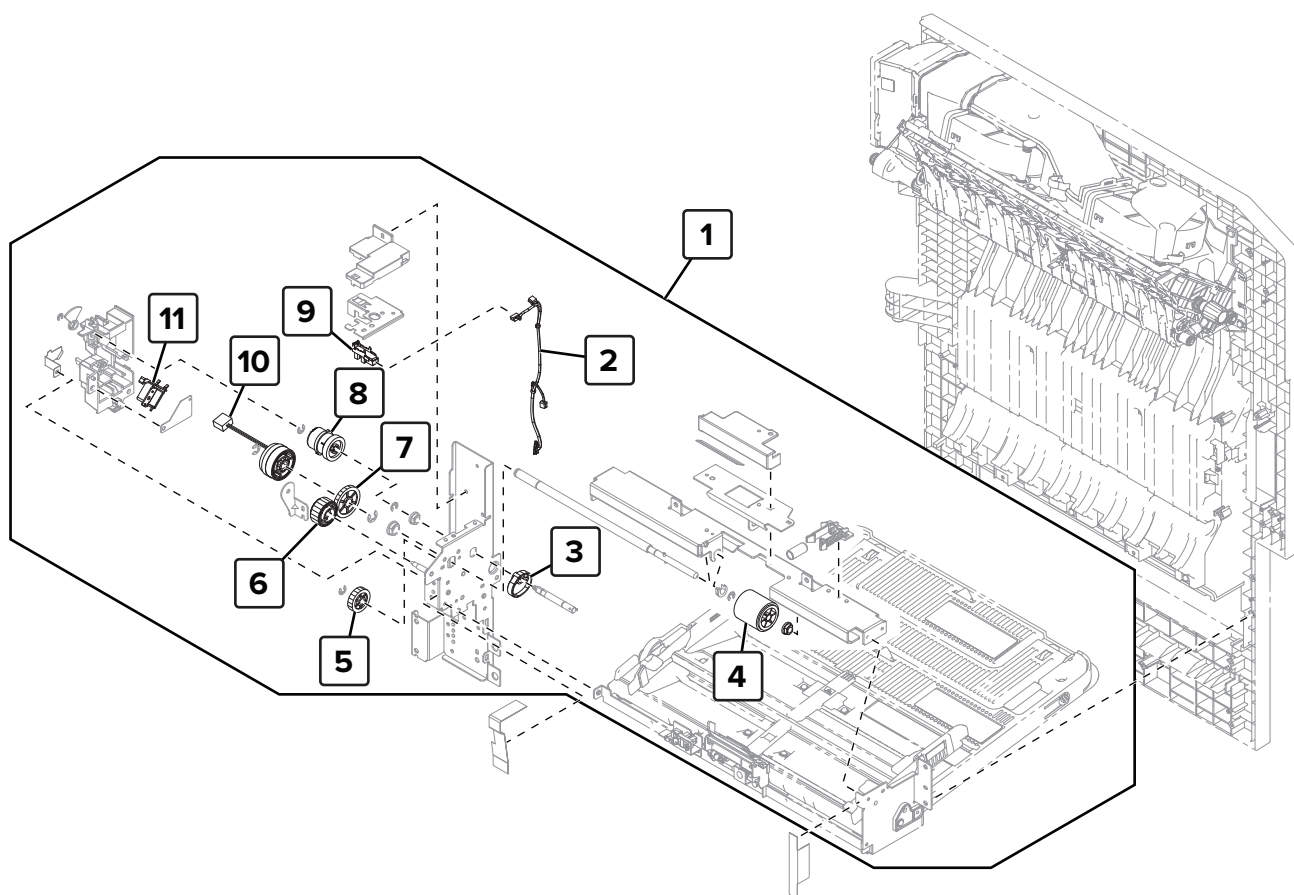
Assembly 17: Right door transport



Assembly 17: Right door transport

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------------------|--|
| 1 | 40X9019 | 1 | 1 | Right door upper lock | “Right door lock removal” on page 458 |
| 2 | 40X9020 | 1 | 1 | Right door switch actuator | “Right door lock removal” on page 458 |
| 3 | 41X1488 | 1 | 1 | Right door release handle | “Right door lock removal” on page 458 |
| 4 | 40X9712 | 1 | 1 | Right door middle lock | “Right door lock removal” on page 458 |
| 5 | 40X9715 | 1 | 1 | Right door lock support | “Right door lock removal” on page 458 |
| 6 | 40X8973 | 4 | 1 | Tray 2 transport guide rollers | -- |
| 7 | 40X9713 | 1 | 1 | Right door lower lock | “Right door lock removal” on page 458 |
| 8 | 41X1772 | 1 | 1 | MPF separator access cover | “MPF separator access cover removal” on page 488 |
| 9 | 40X9527 | 1 | 1 | Right door switch | “Right door switch removal” on page 562 |
| 10 | 41X1576 | 1 | 1 | Tray 2 transport guide | “Tray 2 transport guide removal” on page 459 |

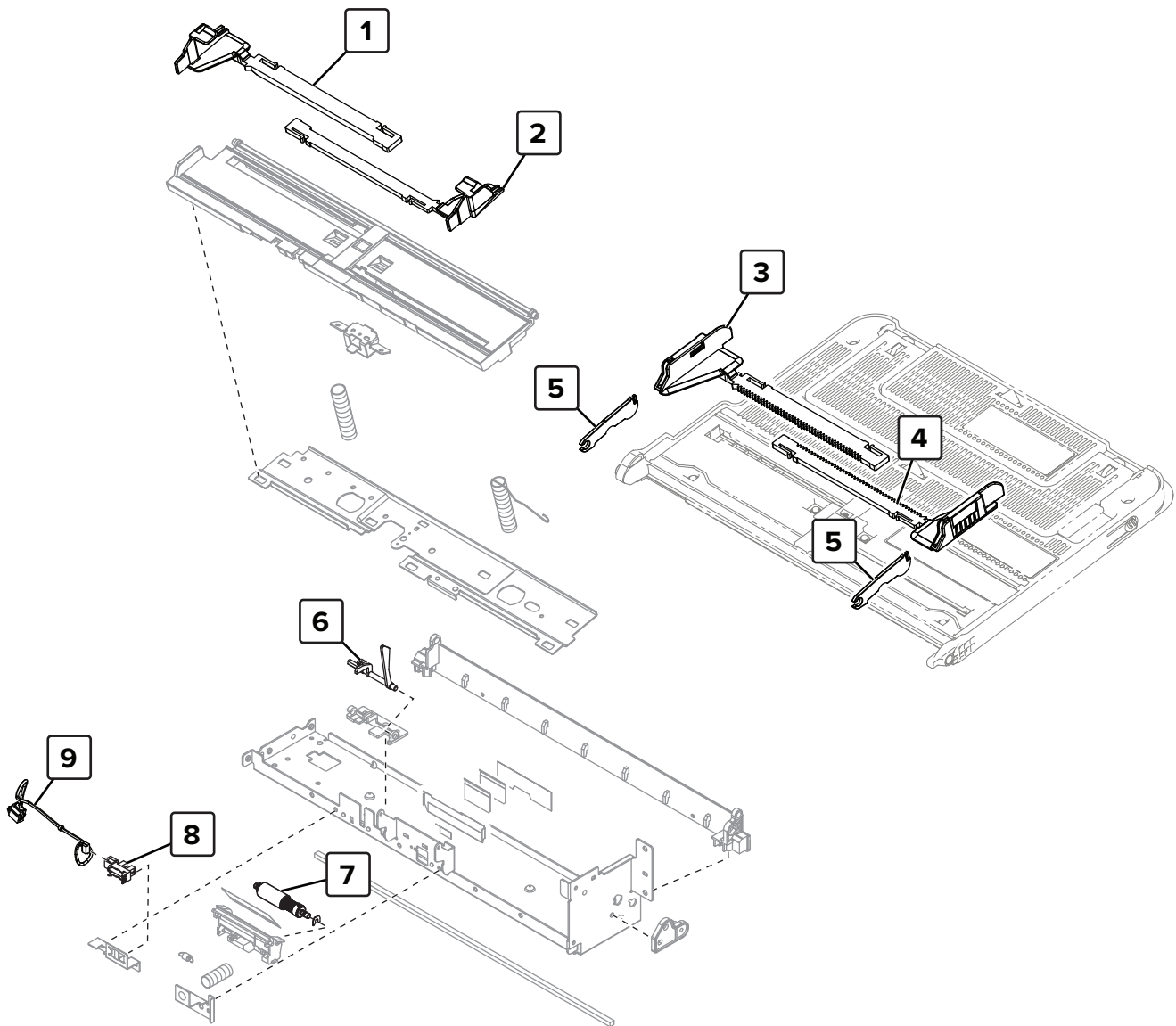
Assembly 18: MPF 1



Assembly 18: MPF 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------------------|---|
| 1 | 41X1490 | 1 | 1 | MPF | “MPF removal” on page 460 |
| 2 | 40X9716 | 1 | 1 | MPF lift plate sensor cable | “MPF lift plate sensor cable removal” on page 495 |
| 3 | 40X9996 | 1 | 1 | MPF lift plate cam | “MPF lift plate cam removal” on page 483 |
| 4 | 40X9995 | 1 | 1 | MPF pick roller | “MPF pick roller removal” on page 489 |
| 5 | 40X9022 | 1 | 1 | MPF separator gear | “MPF separator gear removal” on page 490 |
| 6 | 40X9718 | 1 | 1 | MPF separator idler gear | “MPF separator idler gear removal” on page 491 |
| 7 | 40X9719 | 1 | 1 | MPF feed clutch gear | “MPF feed clutch gear removal” on page 481 |
| 8 | 40X9720 | 1 | 1 | MPF lift plate clutch gear | “MPF lift plate clutch gear removal” on page 484 |
| 9 | 41X1391 | 1 | 1 | Sensor (MPF lift plate) | “Sensor (MPF lift plate) removal” on page 494 |
| 10 | 40X9023 | 1 | 1 | MPF feed clutch | “MPF feed clutch removal” on page 480 |
| 11 | 41X1489 | 1 | 1 | MPF lift plate solenoid | “MPF lift plate solenoid removal” on page 482 |

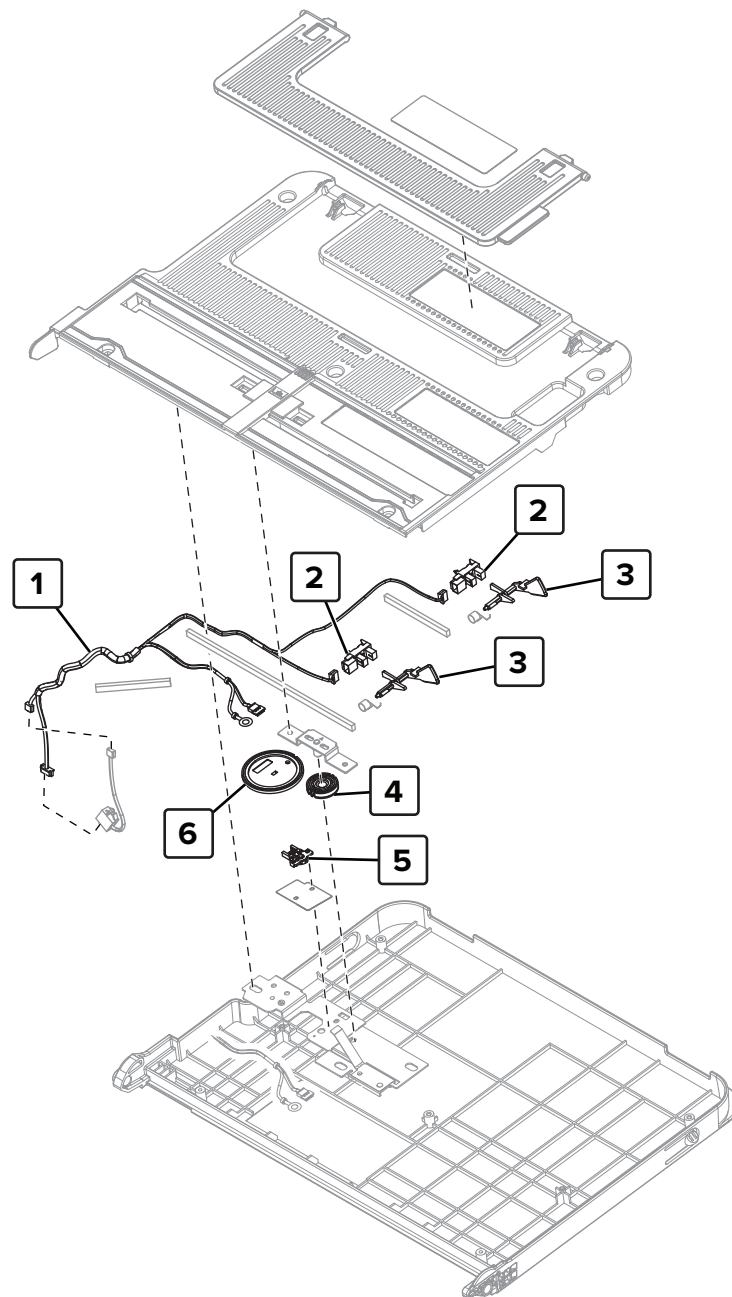
Assembly 19: MPF 2



Assembly 19: MPF 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------------------|--|
| 1 | 41X1577 | 1 | 1 | MPF rear paper guide 2 | “MPF rear paper guide 2 removal” on page 475 |
| 2 | 41X1578 | 1 | 1 | MPF front paper guide 2 | “MPF front paper guide 2 removal” on page 477 |
| 3 | 41X1492 | 1 | 1 | MPF rear paper guide | “MPF rear paper guide removal” on page 473 |
| 4 | 41X1579 | 1 | 1 | MPF front paper guide | “MPF front paper guide removal” on page 474 |
| 5 | 41X1491 | 2 | 1 | MPF hinge arm | “MPF hinge arm removal” on page 461 |
| 6 | 41X1495 | 1 | 1 | MPF paper empty flag | “MPF paper empty flag removal” on page 465 |
| 7 | 40X9615 | 1 | 1 | MPF separator roller | “MPF separator roller removal” on page 492 |
| 8 | 41X1391 | 1 | 1 | Sensor (MPF paper present) | “Sensor (MPF paper present) removal” on page 462 |
| 9 | 41X1493 | 1 | 1 | MPF paper present sensor cable | “MPF paper present sensor cable removal” on page 463 |

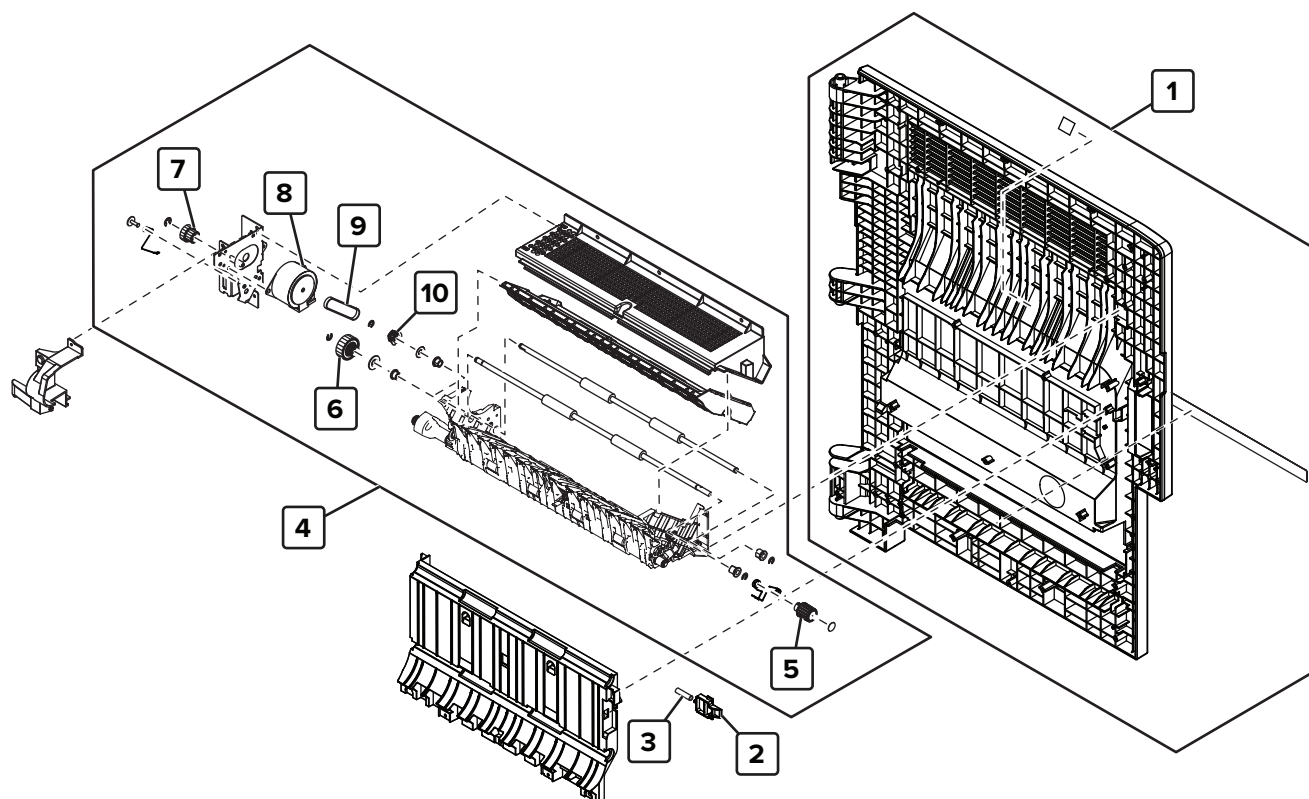
Assembly 20: MPF 3



Assembly 20: MPF 3

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------------------|---|
| 1 | 41X1498 | 1 | 1 | MPF paper size sensor cable | “MPF paper size sensor cable removal” on page 487 |
| 2 | 41X1391 | 2 | 1 | Sensors (MPF paper length) | “Sensors (MPF paper length) removal” on page 469 |
| 3 | 40X9026 | 2 | 1 | MPF paper length actuators | “MPF paper length actuators removal” on page 485 |
| 4 | 41X1580 | 1 | 1 | MPF paper guide pinion gear | “MPF paper guide pinion gear removal” on page 471 |
| 5 | 40X9030 | 1 | 1 | Sensor (MPF paper width) | “Sensor (MPF paper width) removal” on page 469 |
| 6 | 41X1497 | 1 | 1 | MPF paper width gear | “MPF paper width gear removal” on page 466 |

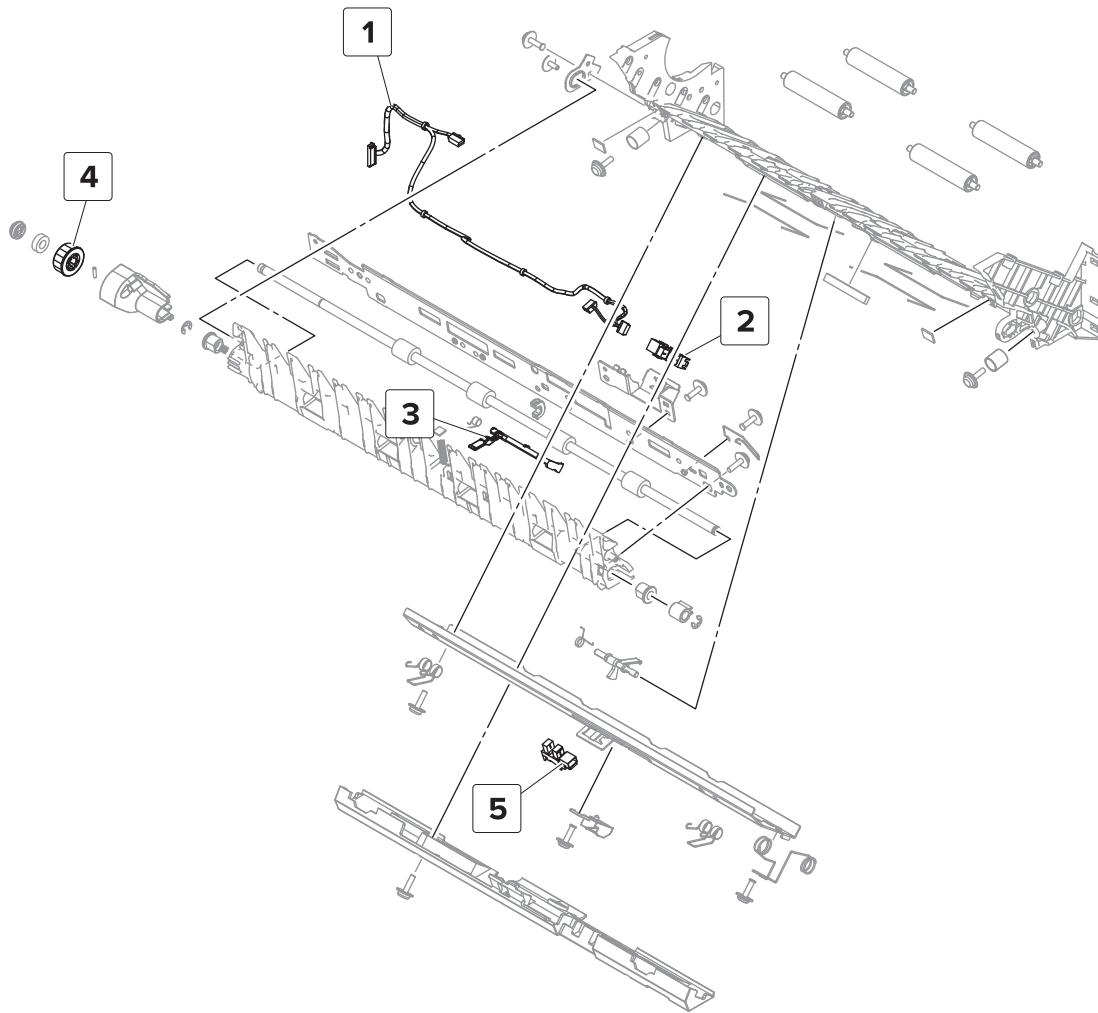
Assembly 21: Duplex 1



Assembly 21: Duplex 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------------------------|---|
| 1 | 41X1811 | 1 | 1 | Right door | “Right door removal” on page 430 |
| 2 | 41X1932 | 1 | 1 | Registration unit lock | “Registration unit lock and spring removal” on page 519 |
| 3 | 41X1814 | 1 | 1 | Registration unit spring | “Registration unit lock and spring removal” on page 519 |
| 4 | 41X1818 | 1 | 1 | Duplex transport assembly | “Duplex transport assembly removal” on page 443 |
| 5 | 40X9998 | 1 | 1 | Duplex transport jam removal knob | “Duplex transport jam removal knob removal” on page 452 |
| 6 | 41X1815 | 1 | 1 | Duplex secondary gear | “Duplex secondary gear removal” on page 445 |
| 7 | 41X1817 | 1 | 1 | Duplex primary gear | “Duplex primary gear removal” on page 444 |
| 8 | 41X1819 | 1 | 1 | Motor (duplex transport) | “Motor (duplex transport) removal” on page 456 |
| 9 | 40X9036 | 1 | 1 | Duplex transport belt | “Duplex transport belt removal” on page 446 |
| 10 | 40X9012 | 1 | 1 | Duplex transport gear | “Duplex transport gear removal” on page 447 |

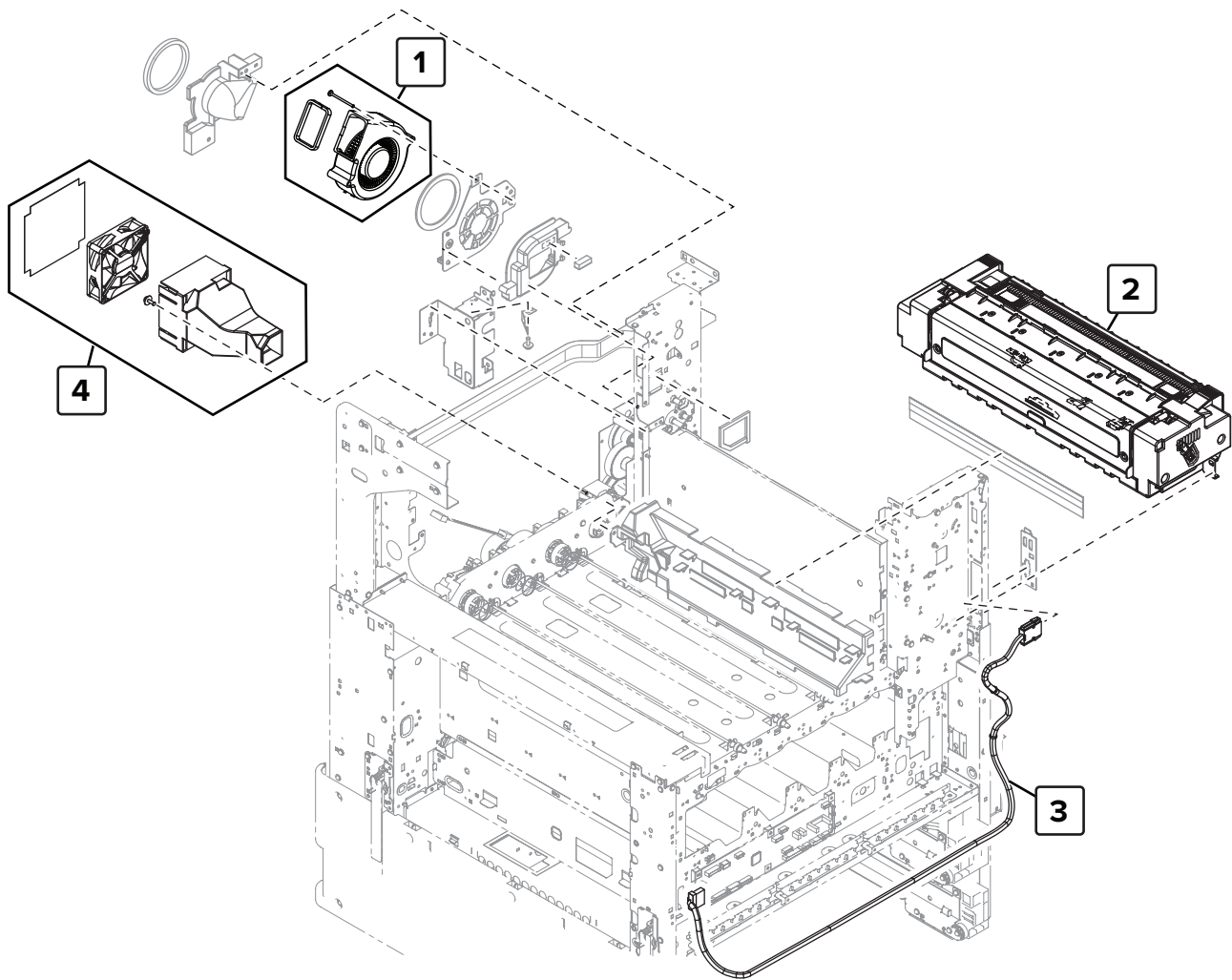
Assembly 22: Duplex 2



Assembly 22: Duplex 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------------------|--|
| 1 | 40X9723 | 1 | 1 | Fuser exit sensor cable | “Fuser exit sensor cable removal” on page 452 |
| 2 | 41X1391 | 1 | 1 | Sensor (fuser exit) | “Sensor (fuser exit) removal” on page 449 |
| 3 | 40X9039 | 1 | 1 | Fuser exit sensor actuator | “Fuser exit sensor actuator removal” on page 449 |
| 4 | 40X9215 | 1 | 1 | Duplex redrive diverter gear | “Duplex redrive diverter gear removal” on page 451 |
| 5 | 41X1391 | 1 | 1 | Sensor (duplex pass through 1) | -- |

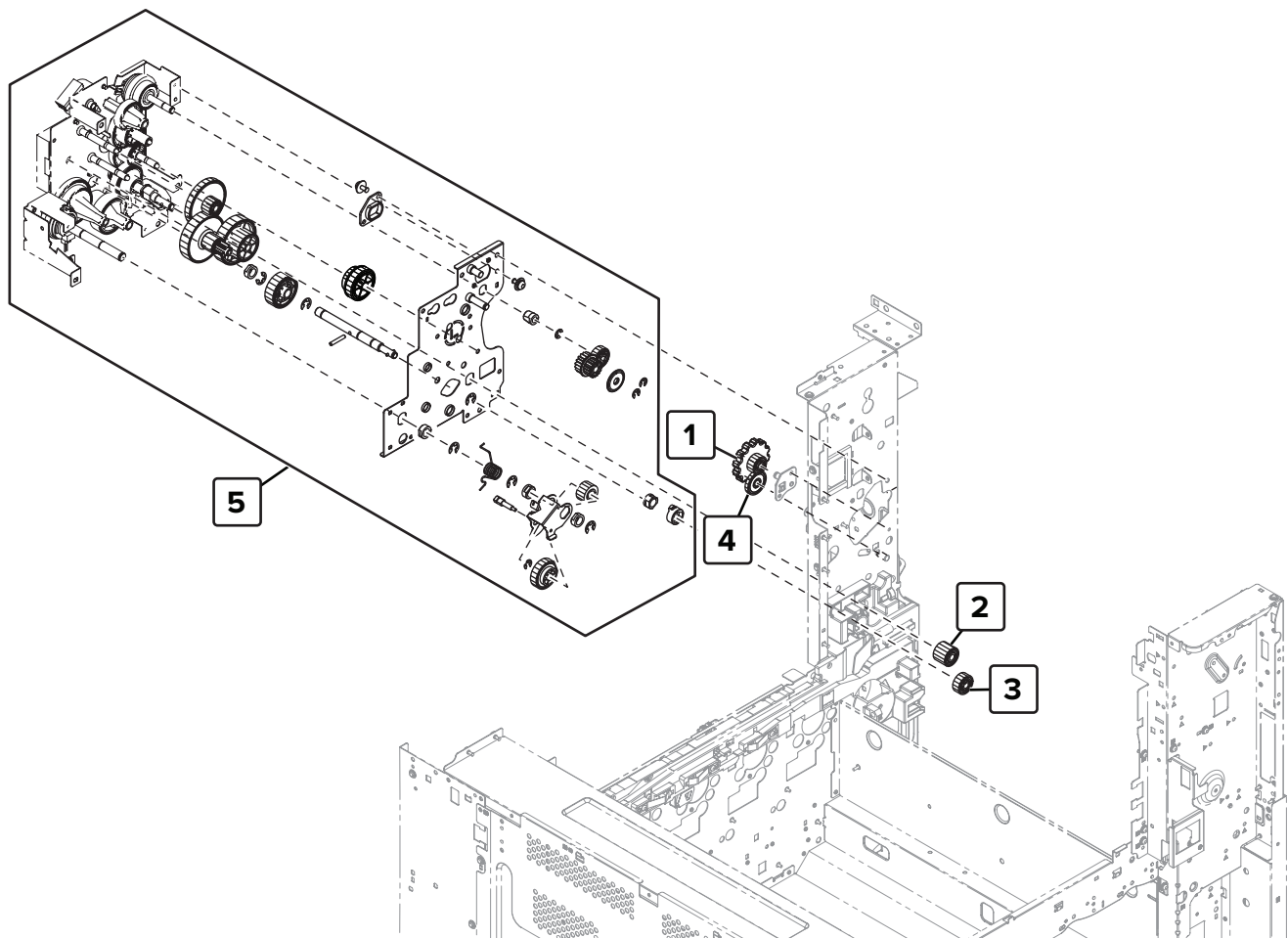
Assembly 23: Fuser



Assembly 23: Fuser

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------------------|---|
| 1 | 41X1822 | 1 | 1 | Paper exit fan | “Paper exit fan removal” on page 639 |
| 2 | 41X1860 | 1 | 1 | Fuser, 120 V | “Fuser removal” on page 441 |
| 2 | 41X1861 | 1 | 1 | Fuser, 220 V | “Fuser removal” on page 441 |
| 2 | 41X2061 | 1 | 1 | Fuser, 110 V Taiwan | “Fuser removal” on page 441 |
| 2 | 41X2060 | 1 | 1 | Fuser, 100 V Japan | “Fuser removal” on page 441 |
| 3 | 41X1820 | 1 | 1 | Fuser power cable | “Fuser power cable removal” on page 589 |
| 4 | 41X1821 | 1 | 1 | Toner cartridge cooling fan | “Toner cartridge cooling fan removal” on page 638 |

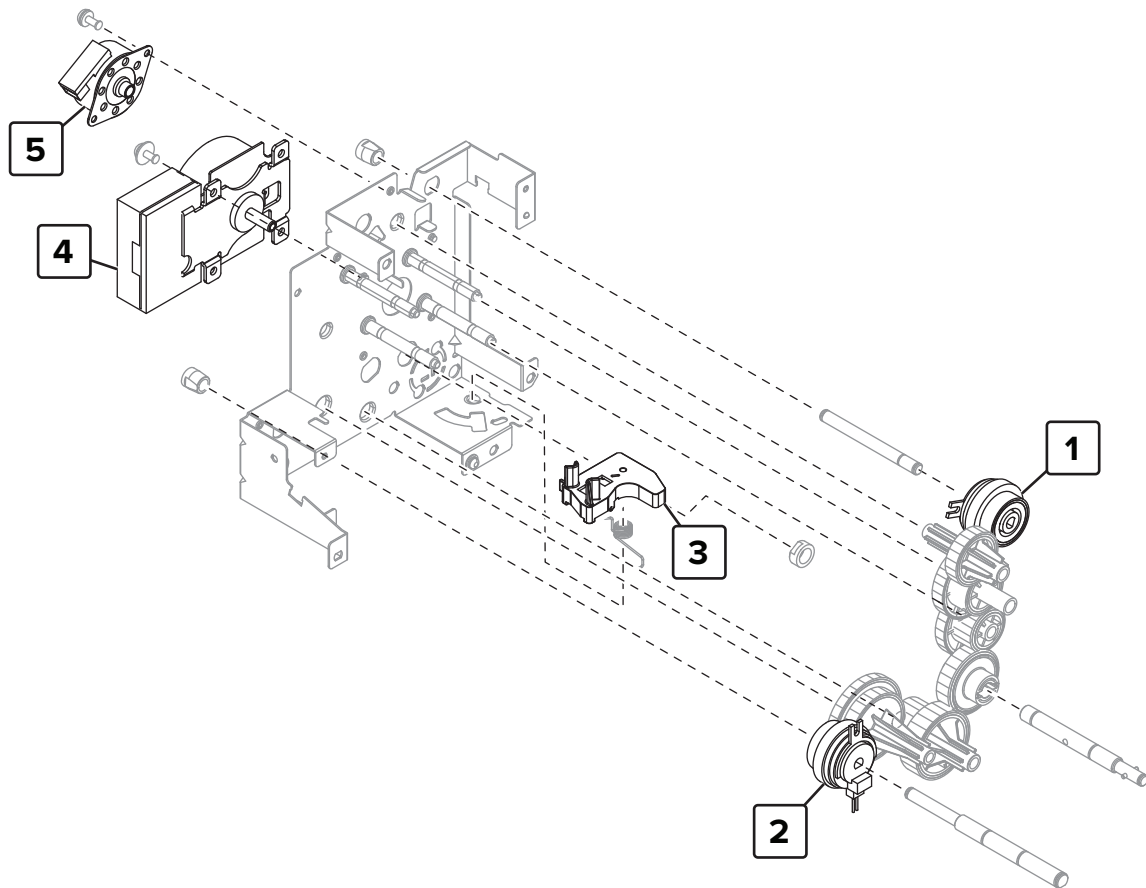
Assembly 24: Fuser drive 1



Assembly 24: Fuser drive 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------------------|---|
| 1 | 40X9729 | 1 | 1 | Fuser knob | “Fuser knob removal” on page 644 |
| 2 | 41X1834 | 1 | 1 | Fuser transport primary gear | -- |
| 3 | 41X1835 | 1 | 1 | Fuser transport secondary gear | -- |
| 4 | 40X9730 | 1 | 1 | Fuser pressure secondary gear | -- |
| 5 | 41X1836 | 1 | 1 | Fuser drive gearbox | “Fuser drive gearbox removal” on page 640 |

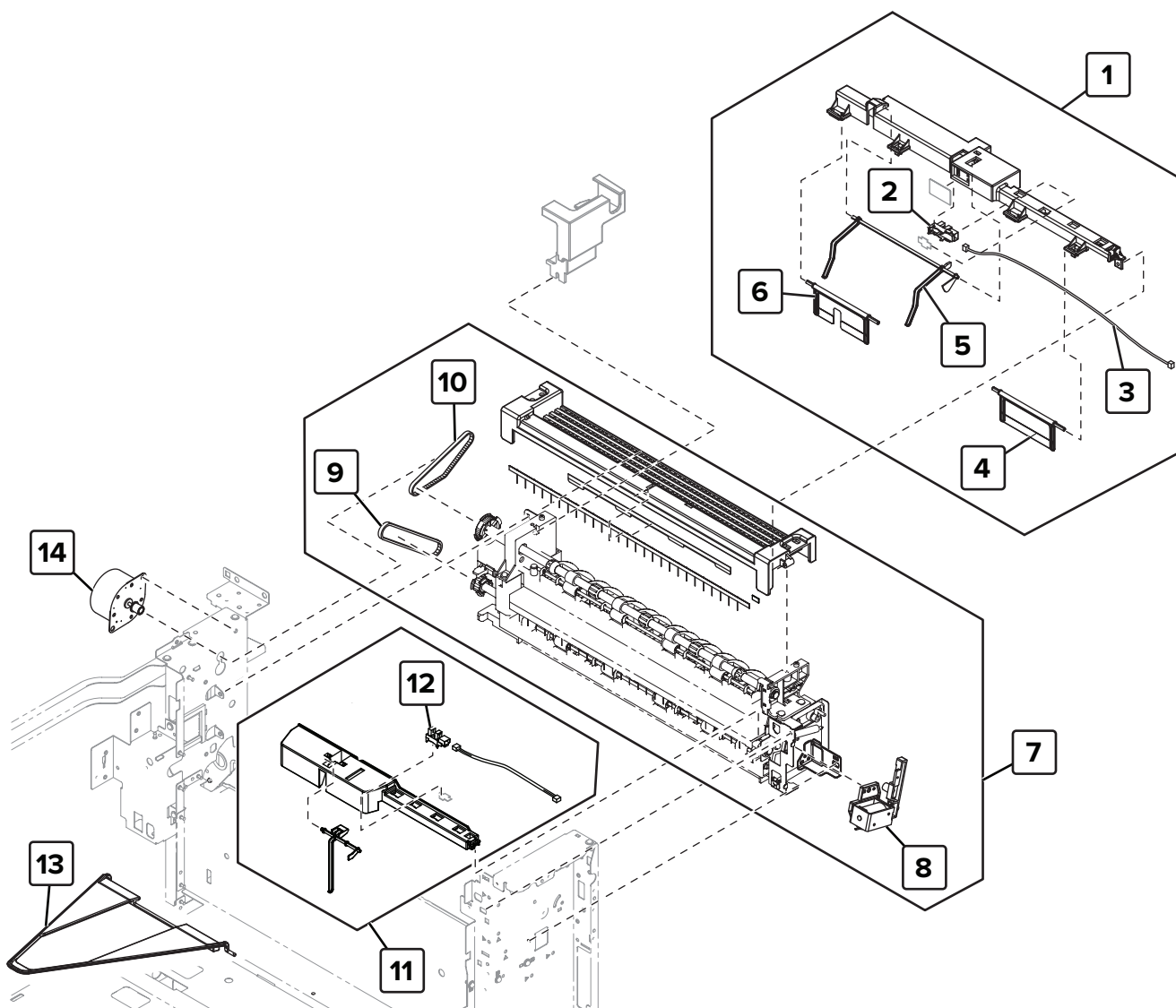
Assembly 25: Fuser drive 2



Assembly 25: Fuser drive 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------|--|
| 1 | 41X1535 | 1 | 1 | Paper exit clutch | -- |
| 2 | 41X1839 | 1 | 1 | CMY retract clutch | -- |
| 3 | 41X1536 | 1 | 1 | Fuser drive lever | -- |
| 4 | 41X1828 | 1 | 1 | Motor (fuser) | “Motor (fuser) removal” on page 629 |
| 5 | 41X1452 | 1 | 1 | Motor (fuser pressure) | “Motor (fuser pressure) removal” on page 628 |

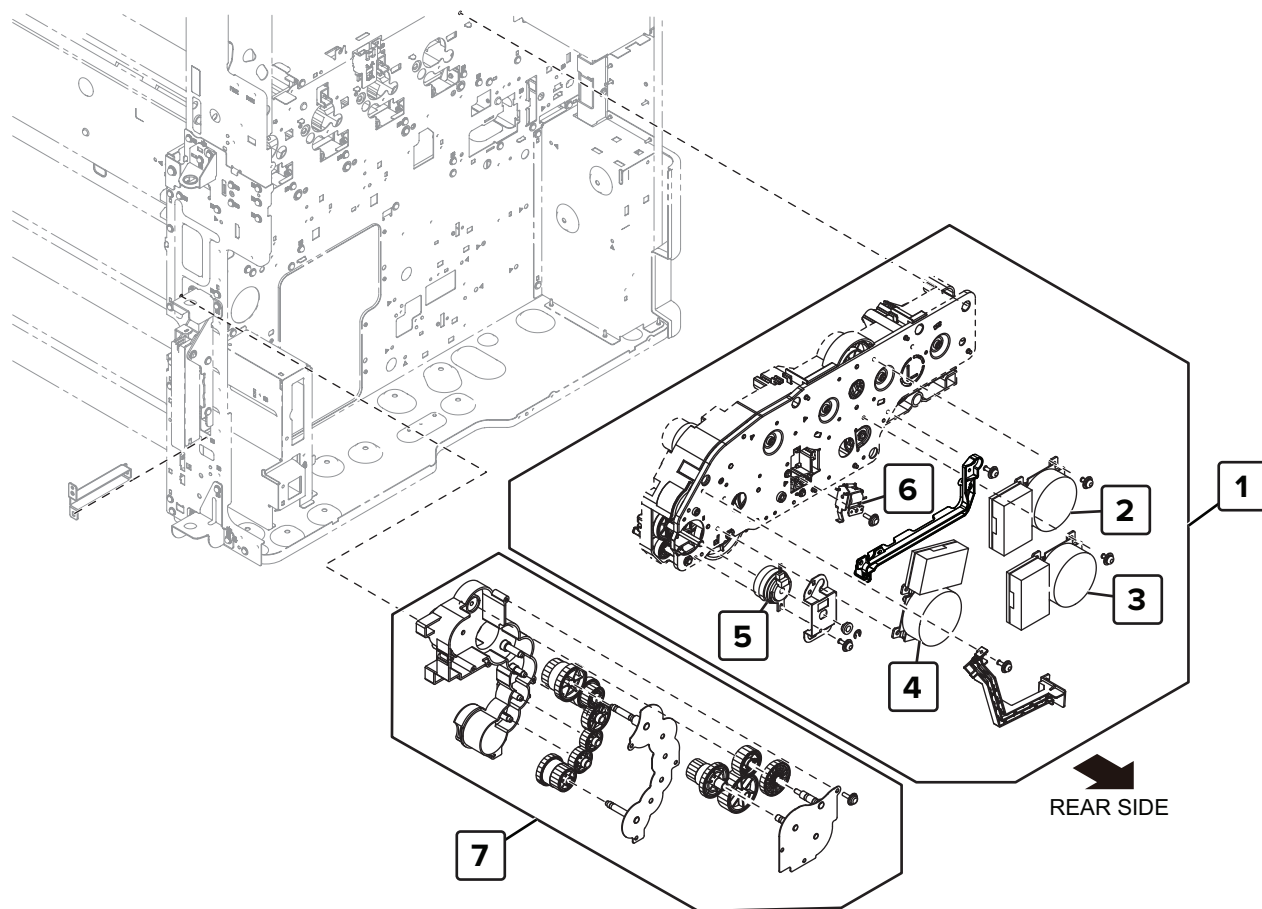
Assembly 26: Exit



Assembly 26: Exit

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------------|--|
| 1 | 41X1934 | 1 | 1 | Redrive exit guide | “Redrive exit guide removal” on page 556 |
| 2 | 41X1444 | 1 | 1 | Sensor (redrive exit) | “Sensor (redrive exit) removal” on page 556 |
| 3 | 40X9644 | 1 | 1 | Redrive exit sensor cable | “Redrive exit sensor cable removal” on page 557 |
| 4 | 40X9042 | 1 | 1 | HPT bin paper bail | “HPT bin paper bail removal” on page 676 |
| 5 | 40X9714 | 1 | 1 | Redrive exit sensor actuator | “Redrive exit sensor actuator removal” on page 558 |
| 6 | 40X9042 | 1 | 1 | HPT bin paper bail | “HPT bin paper bail removal” on page 676 |
| 7 | 41X1826 | 1 | 1 | Exit assembly | “Exit assembly removal” on page 527 |
| 8 | 40X9161 | 1 | 1 | Diverter solenoid | “Diverter solenoid removal” on page 533 |
| 9 | 40X9156 | 1 | 1 | Exit clutch belt | “Redrive exit and clutch exit belts removal” on page 532 |
| 10 | 41X1823 | 1 | 1 | Redrive exit belt | “Redrive exit and clutch exit belts removal” on page 532 |
| 11 | 41X1935 | 1 | 1 | Standard bin exit assembly | “Standard bin exit assembly removal” on page 555 |
| 12 | 41X1444 | 1 | 1 | Sensor (standard bin exit) | -- |
| 13 | 40X8974 | 1 | 1 | Standard bin bail | -- |
| 14 | 41X1512 | 1 | 1 | Motor (redrive) | “Motor (redrive) removal” on page 536 |

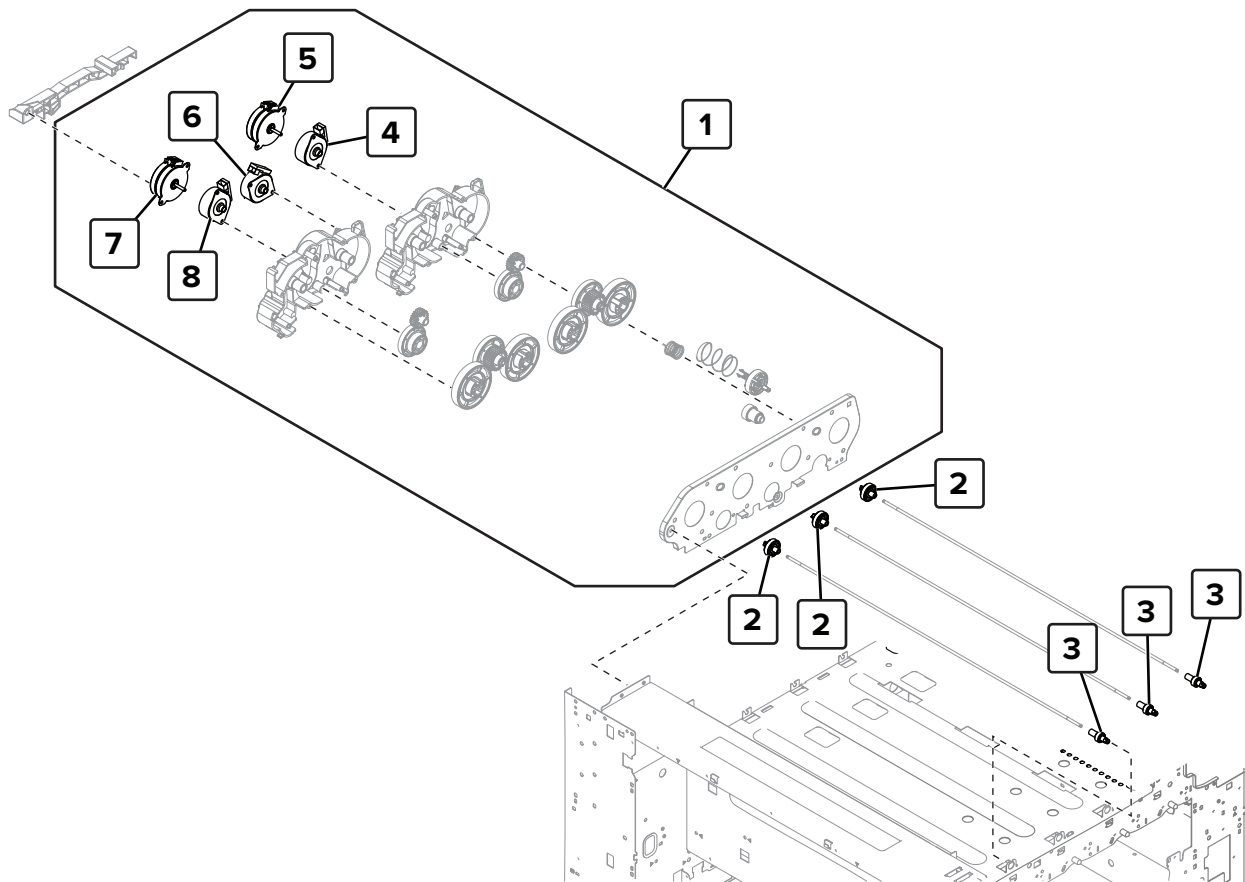
Assembly 27: Main and feed drive



Assembly 27: Main and feed drive

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------|--|
| 1 | 41X1831 | 1 | 1 | Main drive assembly | “Main drive assembly removal” on page 654 |
| 2 | 41X1828 | 1 | 1 | Motor (photoconductor) | “Motor (photoconductor) removal” on page 632 |
| 3 | 41X1829 | 1 | 1 | Motor (developer) | “Motor (developer) removal” on page 631 |
| 4 | 41X1830 | 1 | 1 | Motor (transport) | “Motor (transport) removal” on page 631 |
| 5 | 41X1832 | 1 | 1 | Duplex clutch | “Duplex clutch removal” on page 656 |
| 6 | 41X1519 | 1 | 1 | K developer solenoid | “K developer solenoid removal” on page 658 |
| 7 | 41X1833 | 1 | 1 | Paper feed drive assembly | “Feed drive assembly removal” on page 659 |

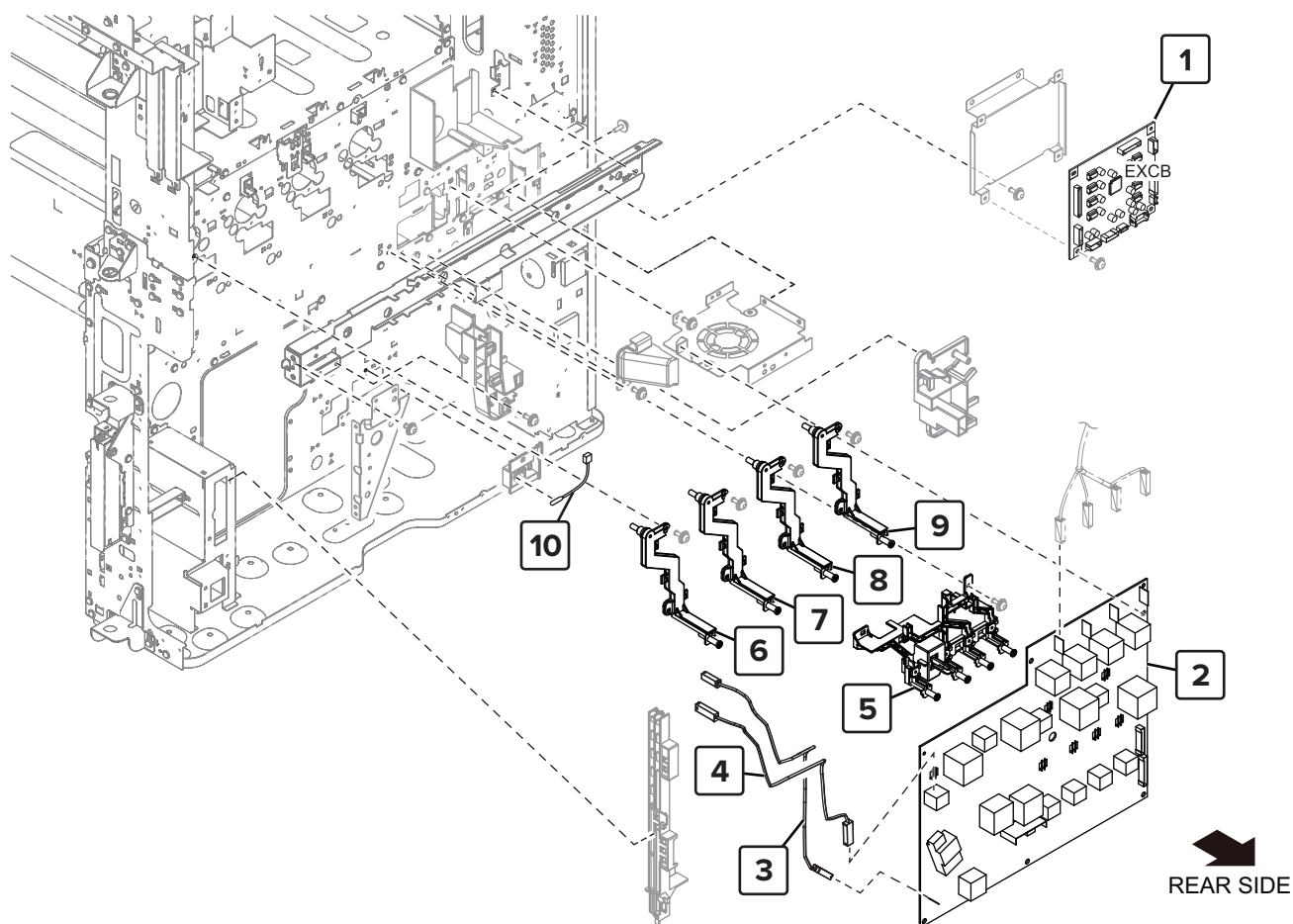
Assembly 28: Toner cartridge drive



Assembly 28: Toner cartridge drive

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|----------------------------|--|
| 1 | 41X1531 | 1 | 1 | Toner cartridge drive | “Motor (C toner supply) removal” on page 635 |
| 2 | 41X1529 | 3 | 1 | Toner supply gear 1 | -- |
| 3 | 41X1530 | 3 | 1 | Toner supply gear 2 | “Toner supply gear 2 removal” on page 680 |
| 4 | 41X1452 | 1 | 1 | Motor (C toner supply) | “Motor (C toner supply) removal” on page 635 |
| 5 | 41X1527 | 1 | 1 | Motor (CK toner cartridge) | “Motor (CK toner cartridge) removal” on page 633 |
| 6 | 41X1452 | 1 | 1 | Motor (M toner supply) | “Motor (M toner supply) removal” on page 636 |
| 7 | 41X1527 | 1 | 1 | Motor (MY toner cartridge) | “Motor (MY toner cartridge) removal” on page 634 |
| 8 | 41X1452 | 1 | 1 | Motor (Y toner supply) | “Motor (Y toner supply) removal” on page 637 |

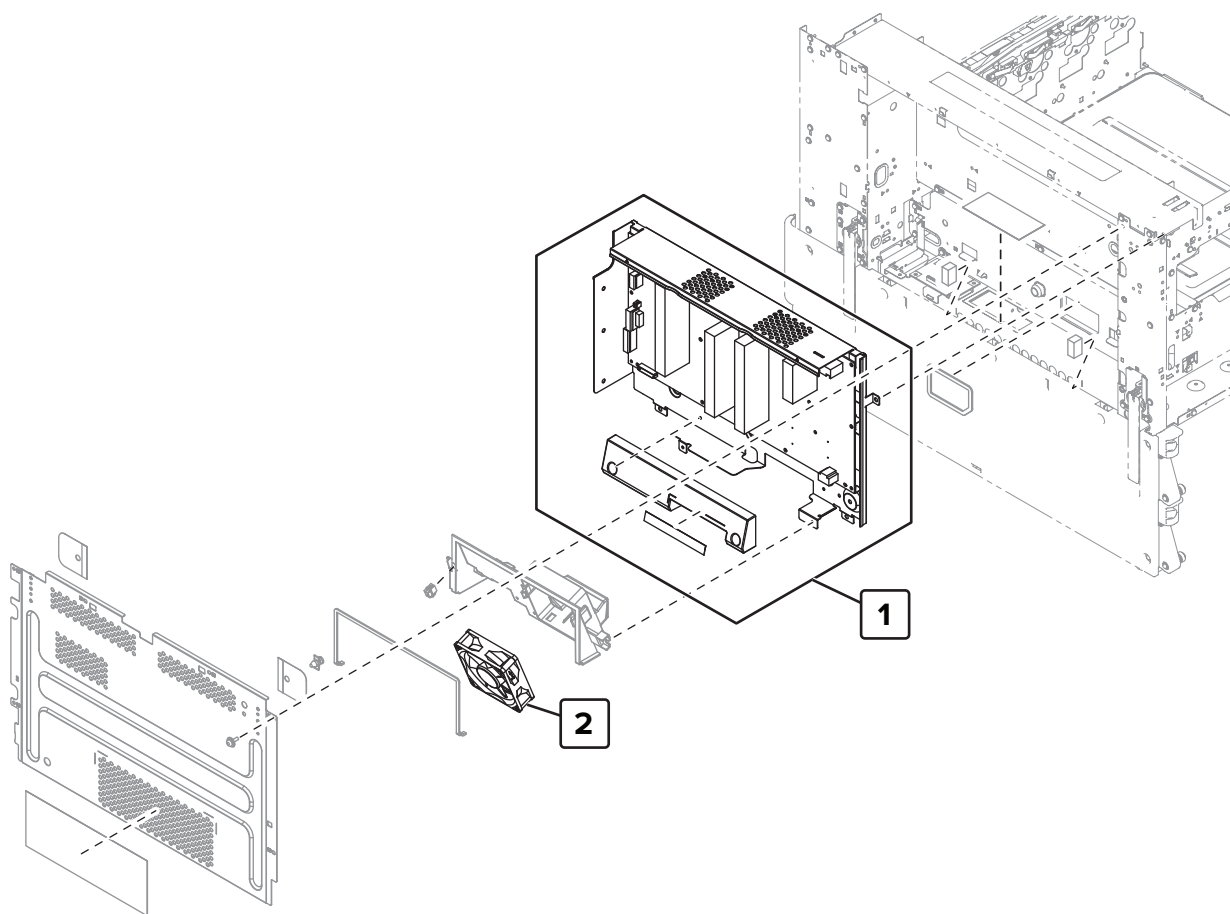
Assembly 29: High voltage



Assembly 29: High voltage

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--|--|
| 1 | 41X1547 | 1 | 1 | Expansion controller board | “Expansion controller board removal” on page 607 |
| 2 | 41X1841 | 1 | 1 | High voltage board | “High voltage board removal” on page 627 |
| 3 | 40X9194 | 1 | 1 | High voltage charge cable | “High voltage transfer and charge cables removal” on page 663 |
| 4 | 40X9733 | 1 | 1 | High voltage transfer cable | “High voltage transfer and charge cables removal” on page 663 |
| 5 | 41X1540 | 1 | 1 | High voltage developer contact | “High voltage developer contact removal” on page 650 |
| 6 | 41X1539 | 1 | 1 | High voltage contact (K) | “High voltage contact removal” on page 674 |
| 7 | 41X1539 | 1 | 1 | High voltage contact (C) | “High voltage contact removal” on page 674 |
| 8 | 41X1539 | 1 | 1 | High voltage contact (M) | “High voltage contact removal” on page 674 |
| 9 | 41X1539 | 1 | 1 | High voltage contact (Y) | “High voltage contact removal” on page 674 |
| 10 | 40X9190 | 1 | 1 | Sensor (tray 1 and tray 2 paper temperature) | “Sensor (tray 1 and tray 2 paper temperature) removal” on page 673 |

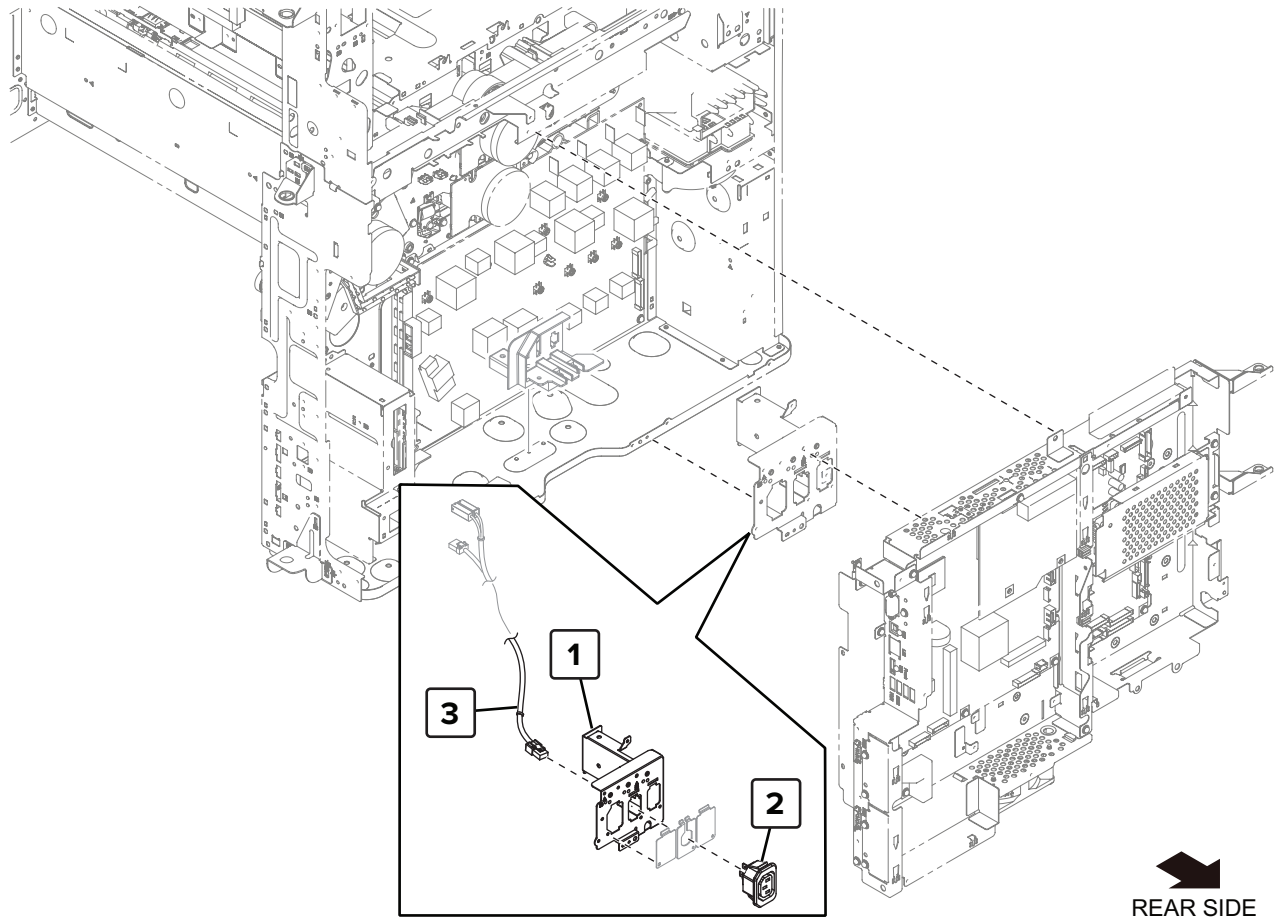
Assembly 30: Main power supply



Assembly 30: Main power supply

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--------------------------|---|
| 1 | 41X1842 | 1 | 1 | Main power supply, 110 V | “Main power supply removal” on page 423 |
| 1 | 41X1843 | 1 | 1 | Main power supply, 220 V | “Main power supply removal” on page 423 |
| 2 | 40X8945 | 1 | 1 | Main power supply fan | “Main power supply fan removal” on page 420 |

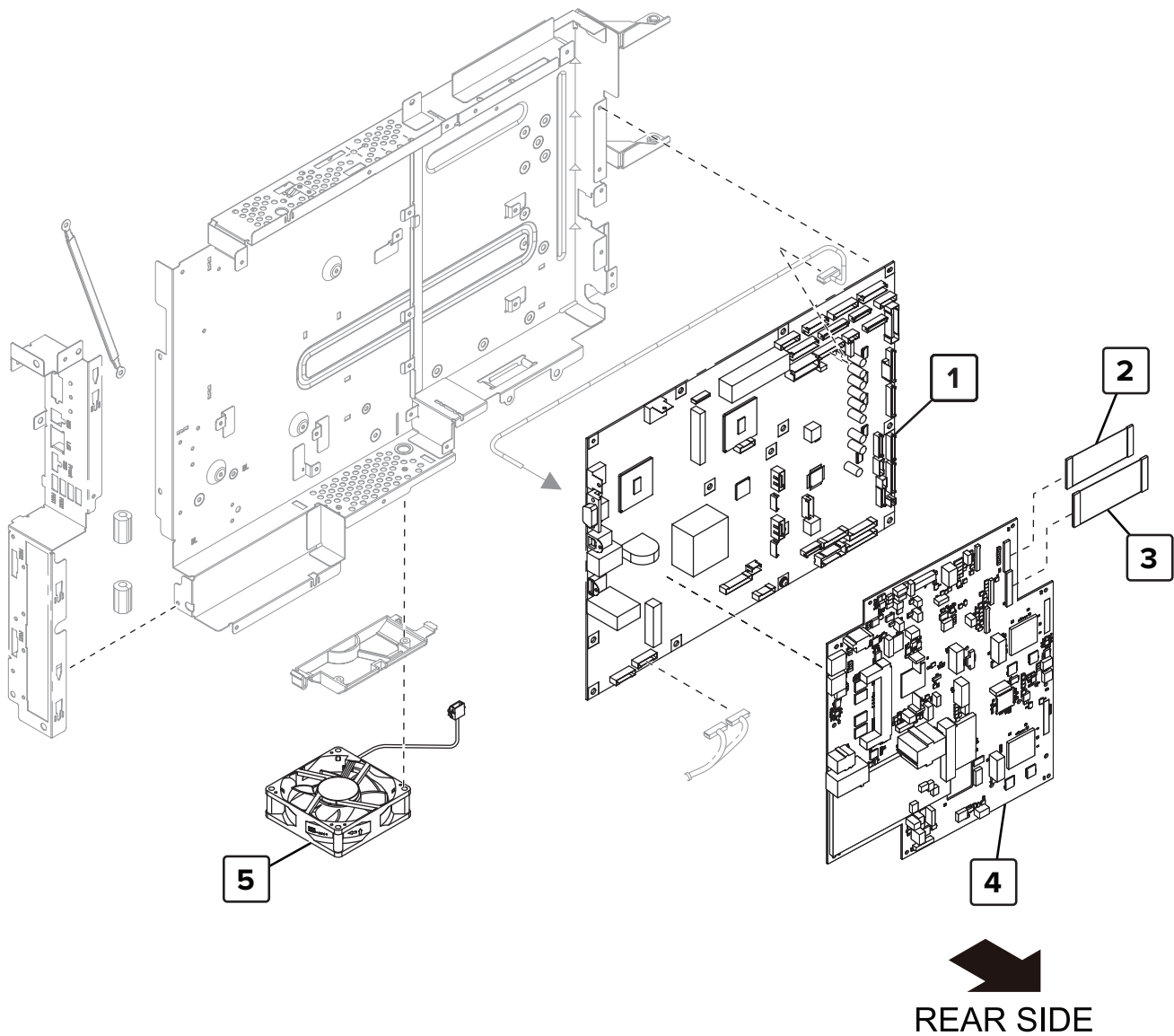
Assembly 31: Electrical 1



Assembly 31: Electrical 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------------------|--|
| 1 | 41X1845 | 1 | 1 | Power socket mounting plate | “Power socket removal” on page 666 |
| 2 | 40X9741 | 1 | 1 | Power socket | “Power socket removal” on page 666 |
| 3 | 41X1844 | 1 | 1 | Power socket cable | “Power socket cable removal” on page 668 |

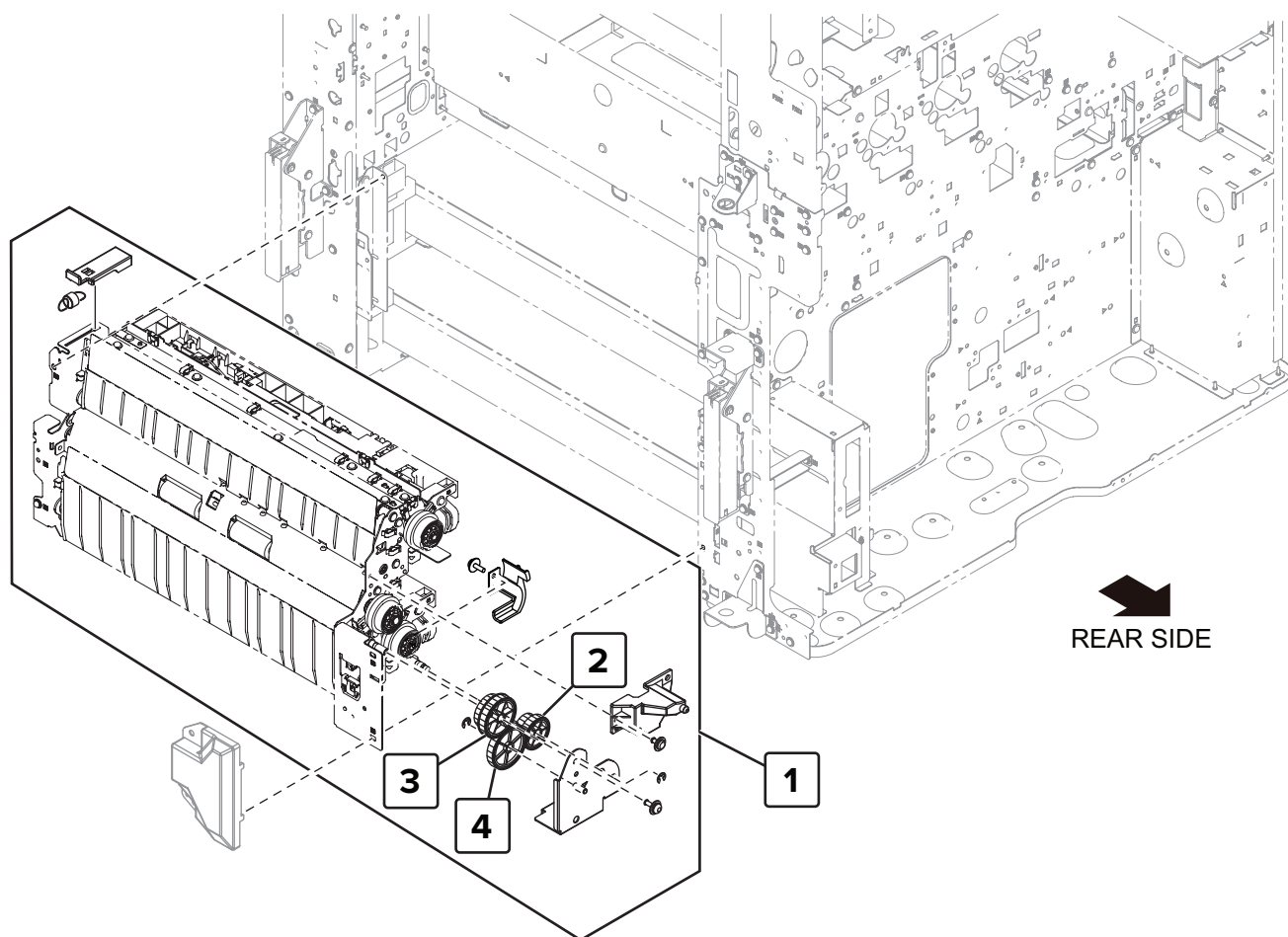
Assembly 32: Electrical 2



Assembly 32: Electrical 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------------|--|
| 1 | 41X1849 | 1 | 1 | Engine board | “Engine board removal” on page 616 |
| 2 | 41X1879 | 1 | 1 | Controller board upper cable | -- |
| 3 | 41X1880 | 1 | 1 | Controller board lower cable | -- |
| 4 | 41X1377 | 1 | 1 | Controller board | “Controller board removal” on page 613 |
| 5 | 40X9209 | 1 | 1 | Controller board fan | -- |

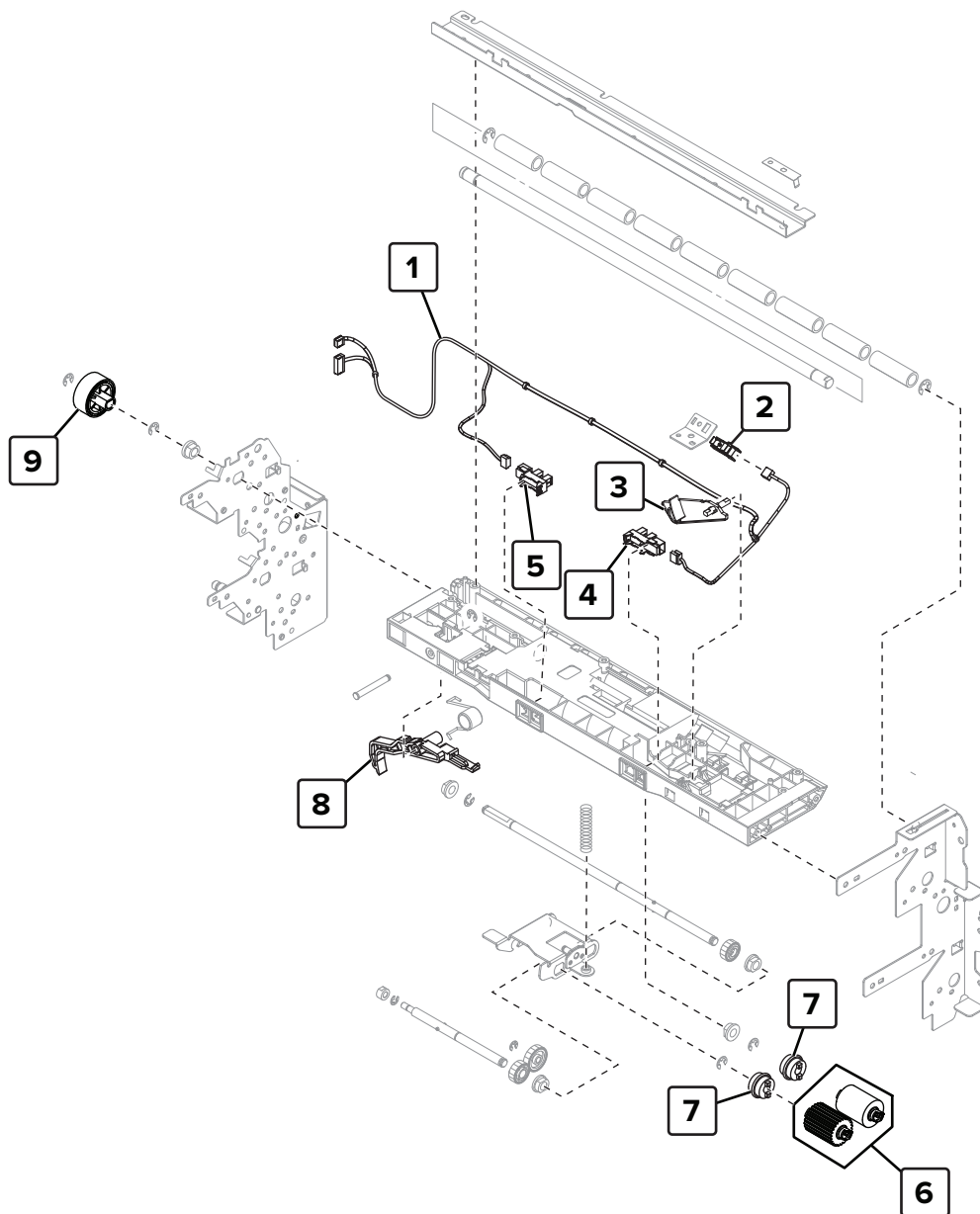
Assembly 33: Tray 1 and tray 2 transport



Assembly 33: Tray 1 and tray 2 transport

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------------------------|--|
| 1 | 41X1804 | 1 | 1 | Tray 1 and tray 2 paper feed unit | “Tray 1 and 2 paper feed unit removal” on page 498 |
| 2 | 40X9980 | 1 | 1 | Tray 2 feed gear | “Tray 2 feed gear removal” on page 716 |
| 3 | 41X1810 | 1 | 1 | Tray 2 transport gear | “Tray 2 transport gear removal” on page 731 |
| 4 | 41X1812 | 1 | 1 | Tray 2 idler gear | “Tray 2 idler gear removal” on page 719 |

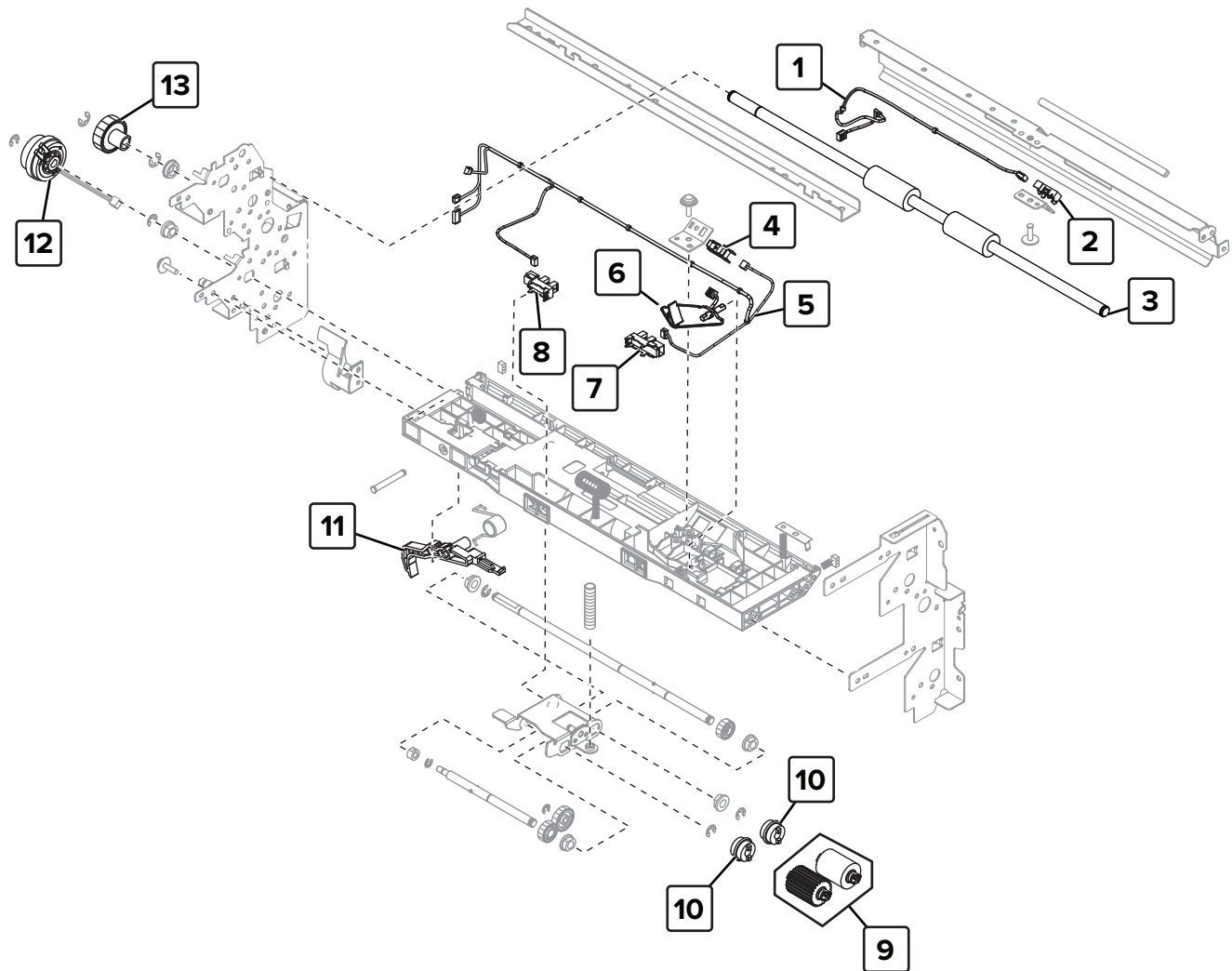
Assembly 34: Tray 1 feed



Assembly 34: Tray 1 feed

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---|---|
| 1 | 40X8972 | 1 | 1 | Tray 1 feed unit sensor cable | “Tray 1 feed unit cable removal” on page 704 |
| 2 | 40X8968 | 1 | 1 | Sensor (tray 1 feed) | “Sensor (tray 1 feed) removal” on page 687 |
| 3 | 40X9899 | 1 | 1 | Tray 1 empty sensor actuator | “Tray 1 empty sensor actuator removal” on page 696 |
| 4 | 41X1391 | 1 | 1 | Sensor (tray 1 empty) | “Sensor (tray 1 empty) removal” on page 687 |
| 5 | 41X1391 | 1 | 1 | Sensor (tray 1 lift plate level) | “Sensor (tray 1 lift plate level) removal” on page 689 |
| 6 | 41X1600 | 2 | 1 | Tray 1 pick and feed rollers Note: This contains the following rollers: <ul style="list-style-type: none">• Pick roller• Feed roller• Separator roller | -- |
| 7 | 40X9981 | 2 | 1 | Tray 1 pick and feed roller clutch | “Tray 1 pick roller clutch removal” on page 703 “Tray 1 feed clutch removal” on page 697 |
| 8 | 40X9982 | 1 | 1 | Tray 1 tray set actuator | “Tray 1 tray set actuator removal” on page 712 |
| 9 | 41X1805 | 1 | 1 | Tray 1 feed clutch | “Tray 1 feed clutch removal” on page 697 |

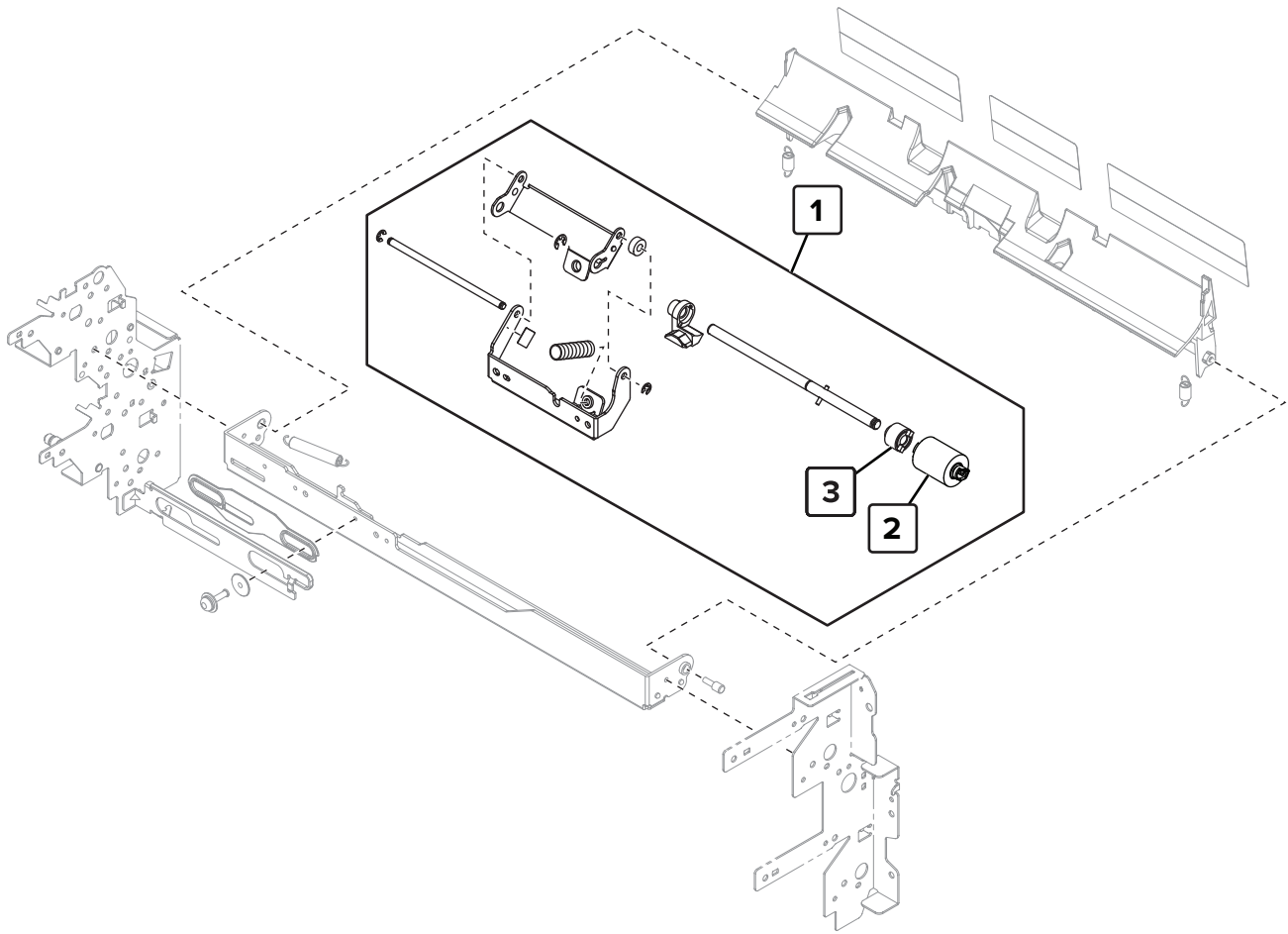
Assembly 35: Tray 2 feed



Assembly 35: Tray 2 feed

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--|--|
| 1 | 40X9984 | 1 | 1 | Tray 2 transport sensor cable | “Tray 2 transport sensor cable removal” on page 733 |
| 2 | 40X8968 | 1 | 1 | Sensor (tray 2 transport) | “Sensor (tray 2 transport) removal” on page 692 |
| 3 | 40X9983 | 1 | 1 | Tray 2 transfer roller | “Tray 2 transfer roller removal” on page 725 |
| 4 | 40X8968 | 1 | 1 | Sensor (tray 2 feed) | “Sensor (tray 2 feed) removal” on page 690 |
| 5 | 40X9987 | 1 | 1 | Tray 2 feed unit sensor cable | -- |
| 6 | 40X9899 | 1 | 1 | Tray 2 empty sensor actuator | -- |
| 7 | 41X1391 | 1 | 1 | Sensor (tray 2 empty) | “Sensor (tray 2 empty) removal” on page 689 |
| 8 | 41X1391 | 1 | 1 | Sensor (tray 2 lift plate level) | “Sensor (tray 2 lift plate level) removal” on page 691 |
| 9 | 41X1600 | 2 | 1 | Tray 2 pick and feed rollers Note: This contains the following rollers: <ul style="list-style-type: none"> • Pick roller • Feed roller • Separator roller | -- |
| 10 | 40X9981 | 2 | 1 | Tray 2 pick and feed roller clutch | -- |
| 11 | 40X9982 | 1 | 1 | Tray 2 tray set actuator | “Tray 2 tray set actuator removal” on page 736 |
| 12 | 41X1805 | 1 | 1 | Tray 2 feed clutch | “Tray 2 feed clutch removal” on page 714 |
| 13 | 41X1806 | 1 | 1 | Tray 2 feed gear | “Tray 2 feed gear removal” on page 716 |

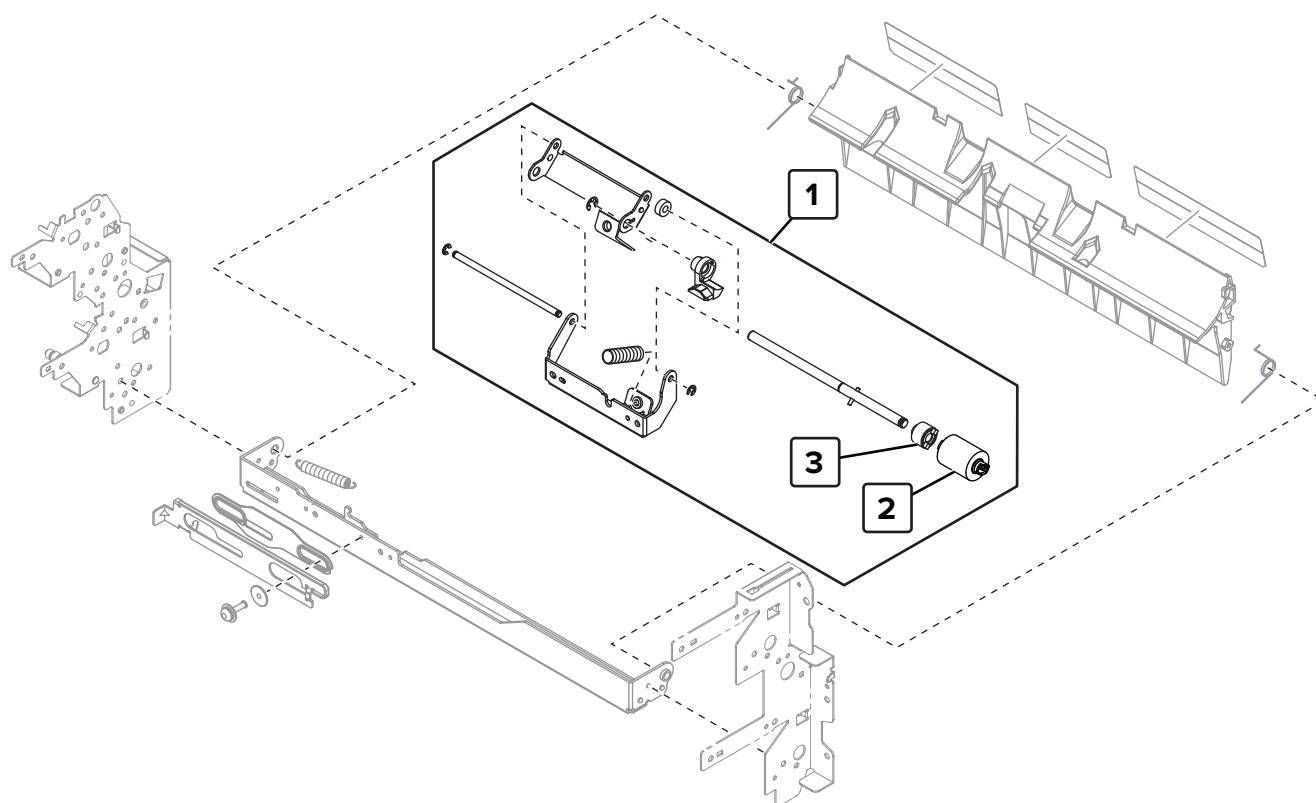
Assembly 36: Tray 1 separator



Assembly 36: Tray 1 separator

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--|--|
| 1 | 40X9927 | 1 | 1 | Tray 1 separator assembly | “Tray 1 separator assembly removal” on page 708 |
| 2 | 41X1600 | 1 | 1 | Tray rollers Note: This contains the following rollers: <ul style="list-style-type: none"> • Pick roller • Feed roller • Separator roller | “Tray rollers removal” on page 684 |
| 3 | 40X9455 | 1 | 1 | Tray 1 separator roller clutch | “Tray separator roller clutch removal” on page 710 |

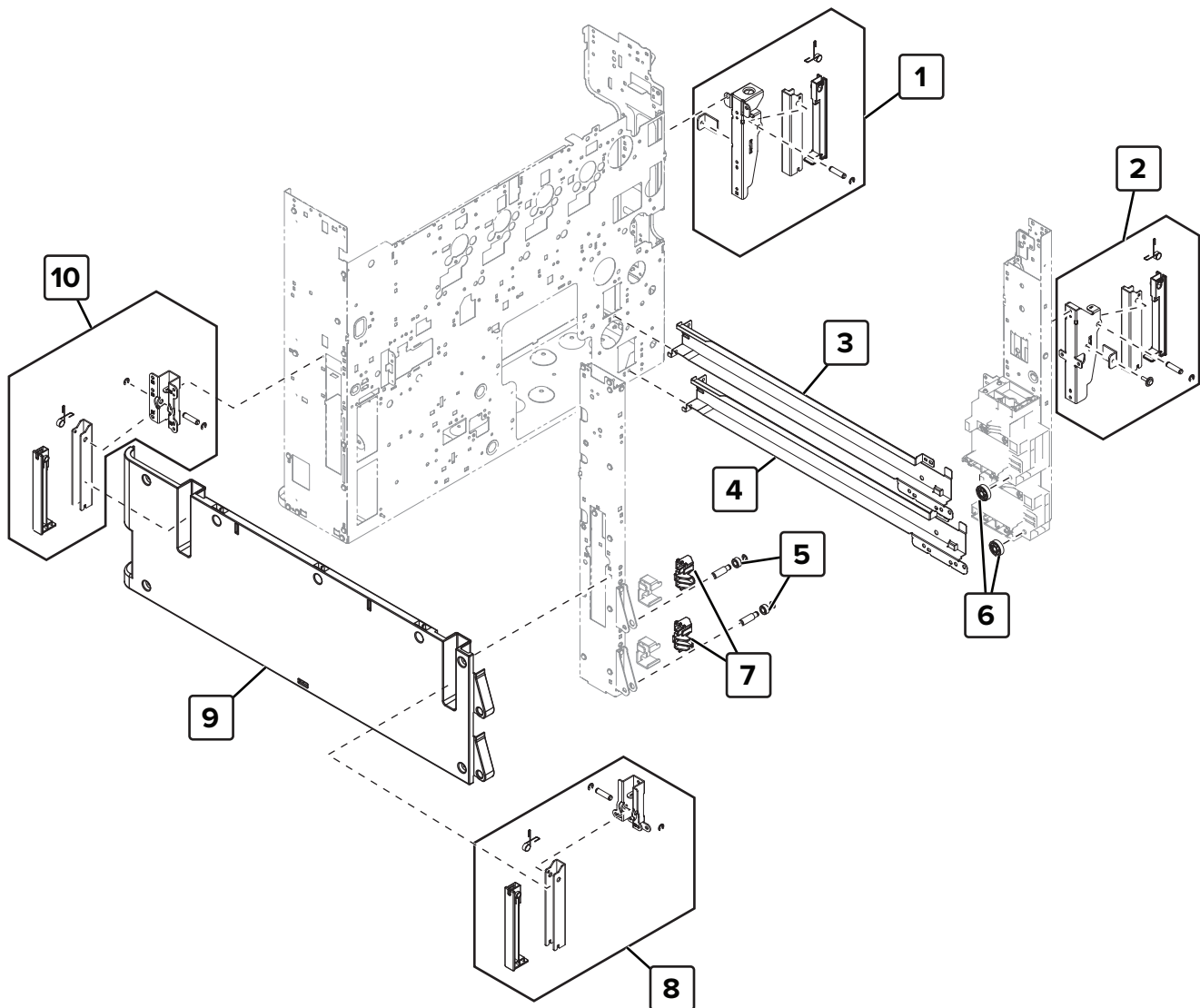
Assembly 37: Tray 2 separator



Assembly 37: Tray 2 separator

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--|--|
| 1 | 40X9927 | 1 | 1 | Tray 2 separator assembly | “Tray 2 separator assembly removal” on page 721 |
| 2 | 41X1600 | 1 | 1 | Tray rollers Note: This contains the following rollers: <ul style="list-style-type: none"> • Pick roller • Feed roller • Separator roller | “Tray rollers removal” on page 684 |
| 3 | 40X9455 | 1 | 1 | Tray 2 separator roller clutch | “Tray separator roller clutch removal” on page 710 |

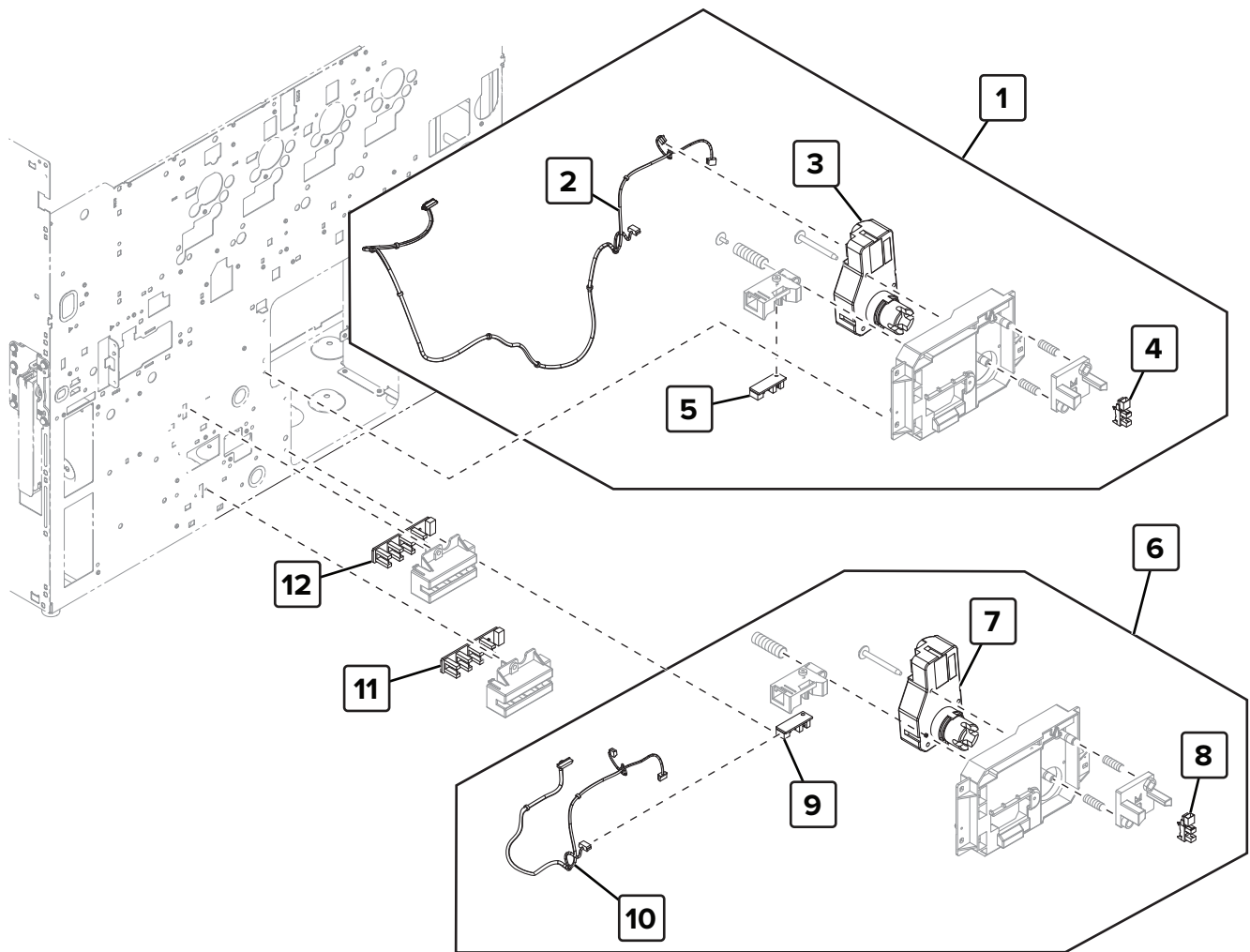
Assembly 38: Tray rail



Assembly 38: Tray rail

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--|---|
| 1 | 40X8978 | 1 | 1 | Right handles, rear | “Right handles removal” on page 540 |
| 2 | 40X8977 | 1 | 1 | Right handles, front | “Right handles removal” on page 540 |
| 3 | 40X8982 | 1 | 1 | Tray 1 rail | -- |
| 4 | 40X8982 | 1 | 1 | Tray 2 rail | -- |
| 5 | 40X9305 | 2 | 1 | Tray 1 and tray 2 rail guide wheels, left | “Tray 1 and tray 2 rail guide wheels removal” on page 568 |
| 6 | 40X8981 | 2 | 1 | Tray 1 and tray 2 rail guide wheels, right | “Tray 1 and tray 2 rail guide wheels removal” on page 568 |
| 7 | 41X1999 | 2 | 1 | Tray 1 and tray 2 stoppers | “Tray 1 and tray 2 stoppers removal” on page 567 |
| 8 | 40X8979 | 1 | 1 | Left handles, rear | “Left handles removal” on page 417 |
| 9 | 41X1569 | 1 | 1 | Bottom left cover | “Bottom left cover removal” on page 416 |
| 10 | 40X8980 | 1 | 1 | Left handles, front | “Left handles removal” on page 417 |

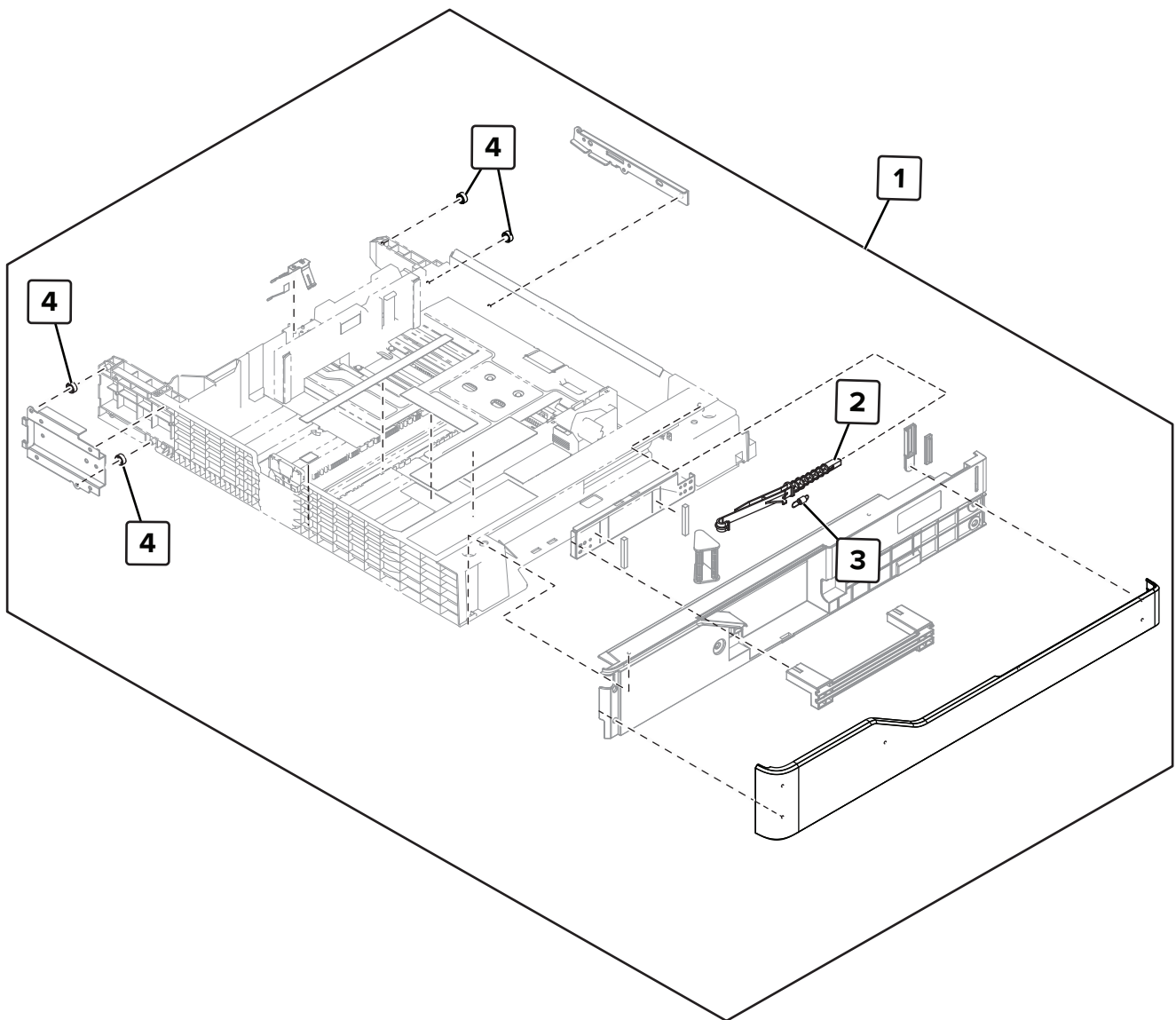
Assembly 39: Tray paper detection



Assembly 39: Tray paper detection

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------------|--|
| 1 | 41X1771 | 1 | 1 | Tray 1 size sensing assembly | -- |
| 2 | 41X1471 | 1 | 1 | Tray 1 feed cable | -- |
| 3 | 40X8987 | 1 | 1 | Motor (tray 1 lift) | “Motor (tray 1 lift) removal” on page 645 |
| 4 | 41X1391 | 1 | 1 | Sensor (tray 1 near empty) | “Sensor (tray 1 near empty) removal” on page 686 |
| 5 | 40X8989 | 1 | 1 | Sensor (tray 1 paper width) | “Sensor (tray 1 paper width) removal” on page 647 |
| 6 | 41X1928 | 1 | 1 | Tray 2 size sensing assembly | -- |
| 7 | 40X8987 | 1 | 1 | Motor (tray 2 lift) | “Motor (tray 2 lift) removal” on page 646 |
| 8 | 41X1391 | 1 | 1 | Sensor (tray 2 near empty) | “Sensor (tray 2 near empty) removal” on page 686 |
| 9 | 40X8989 | 1 | 1 | Sensor (tray 2 paper width) | “Sensor (tray 2 paper width) removal” on page 649 |
| 10 | 41X1472 | 1 | 1 | Tray 2 feed unit cable | “Tray 2 feed unit cable removal” on page 717 |
| 11 | 40X8985 | 1 | 1 | Sensor (tray 2 paper length) | “Sensor (tray 2 paper length) removal” on page 685 |
| 12 | 40X8985 | 1 | 1 | Sensor (tray 1 paper length) | “Sensor (tray 1 paper length) removal” on page 685 |

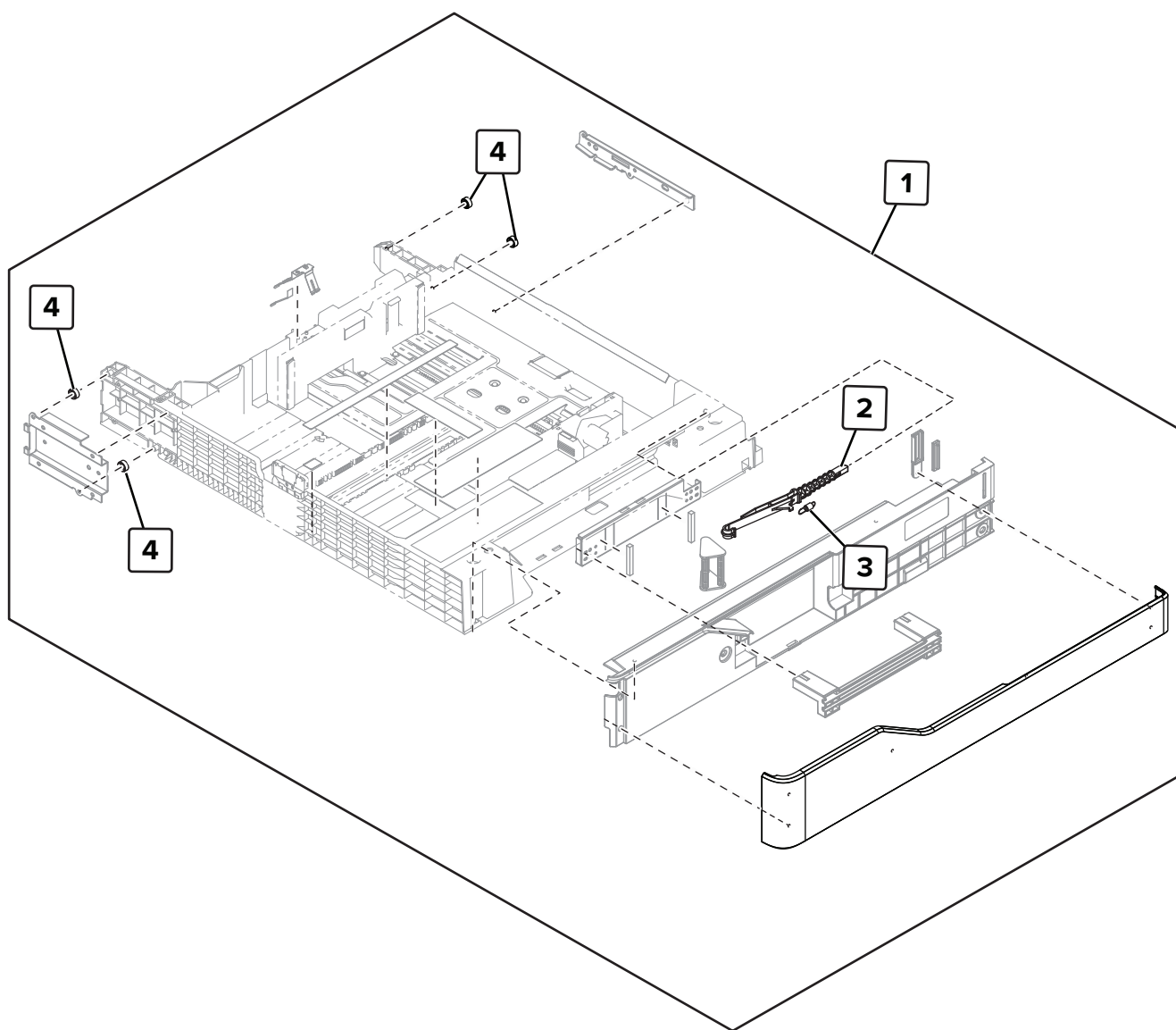
Assembly 40: 500-sheet tray—Tray 1



Assembly 40: 500-sheet tray—Tray 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------------|--|
| 1 | 41X1474 | 1 | 1 | Tray 1 insert | -- |
| 2 | 41X1929 | 1 | 1 | Tray lock | “Tray lock removal” on page 744 |
| 3 | 40X9895 | 1 | 1 | Tray 1 pulling coil spring | -- |
| 4 | 40X9305 | 4 | 1 | Tray 1 tray insert guide wheels | “Tray insert guide wheels removal” on page 739 |

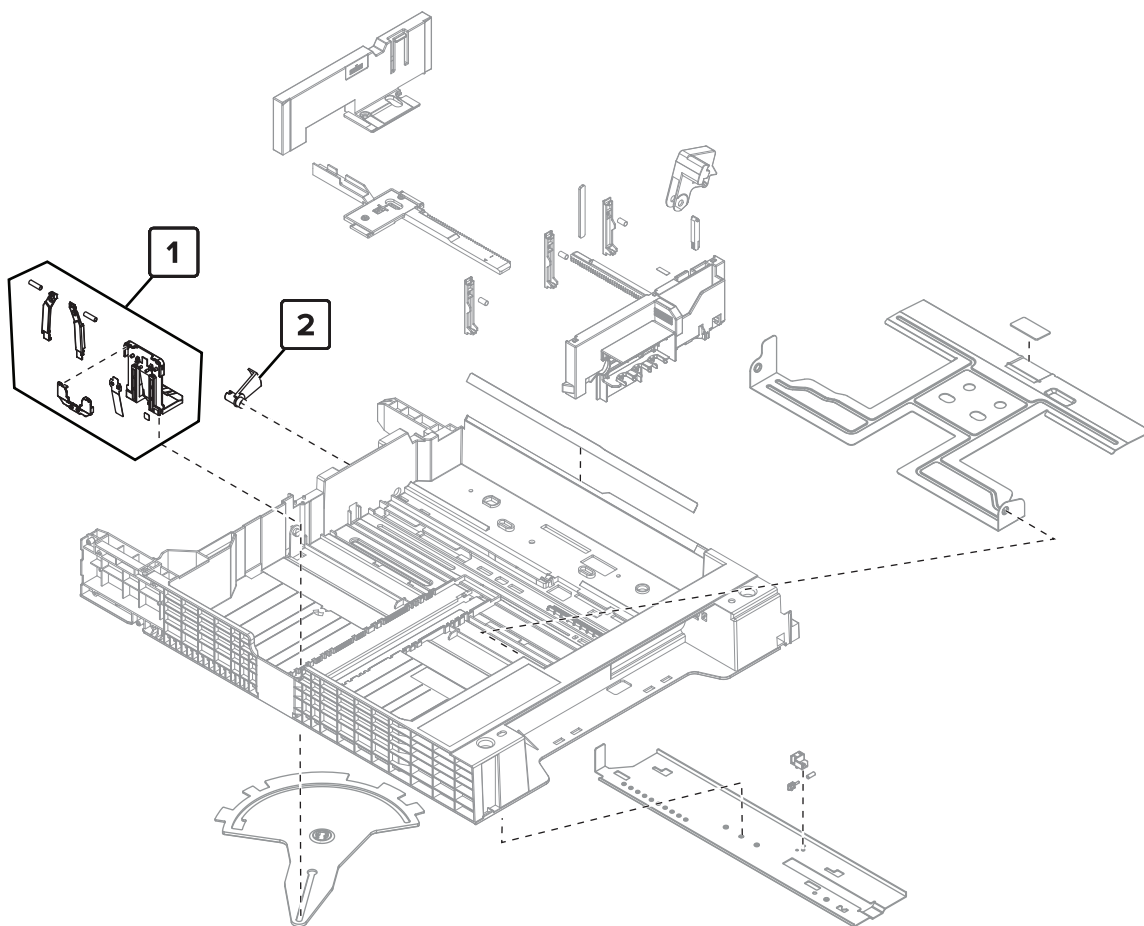
Assembly 41: 500-sheet tray—Tray 2



Assembly 41: 500-sheet tray—Tray 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------------|--|
| 1 | 41X1475 | 1 | 1 | Tray 2 insert | -- |
| 2 | 40X9304 | 1 | 1 | Tray lock | “Tray lock removal” on page 744 |
| 3 | 40X9895 | 1 | 1 | Tray 2 pulling coil spring | -- |
| 4 | 40X9305 | 4 | 1 | Tray 2 tray insert guide wheels | “Tray insert guide wheels removal” on page 739 |

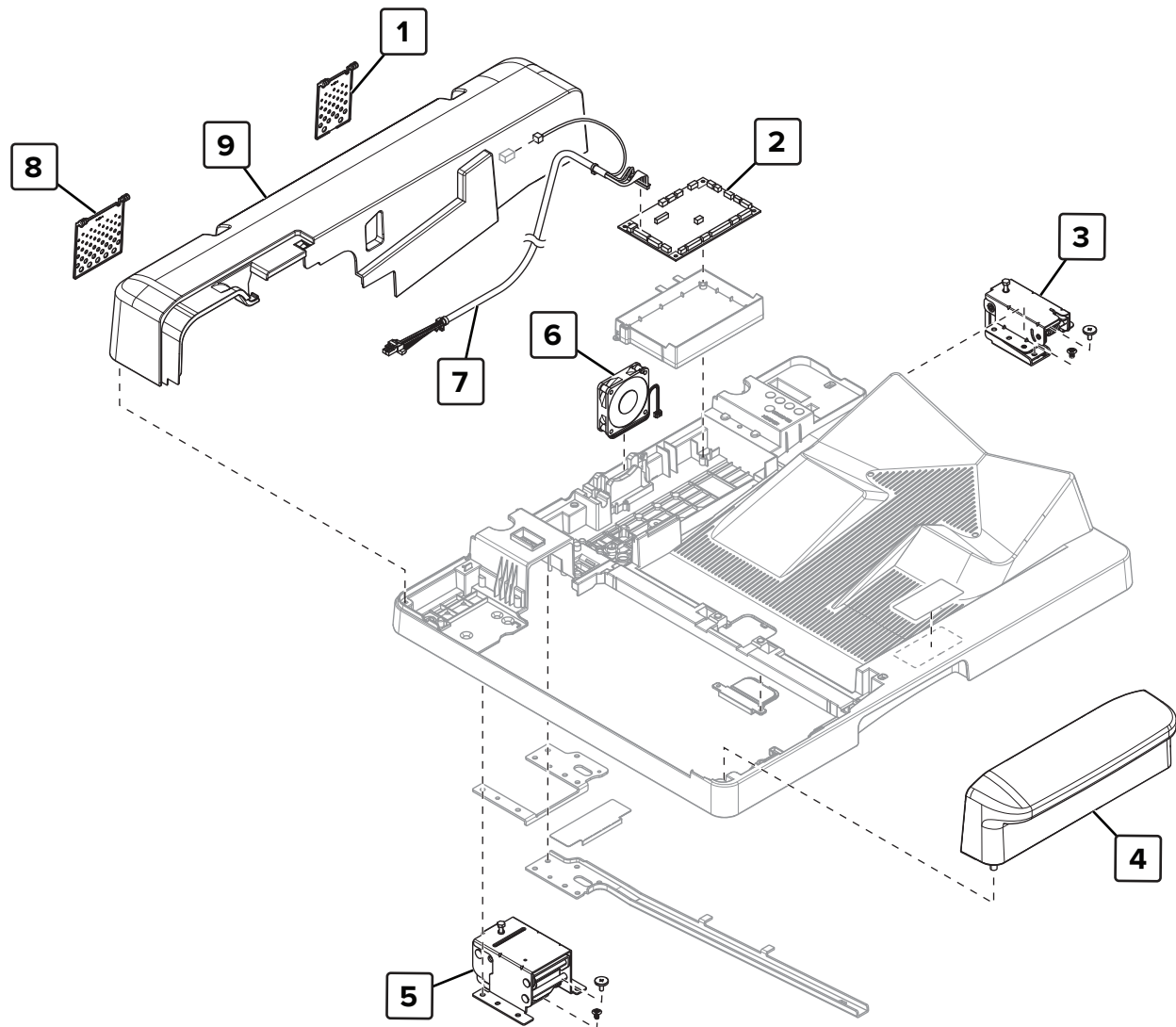
Assembly 42: 500-sheet tray—Tray 1 or tray 2



Assembly 42: 500-sheet tray—Tray 1 or tray 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------------|---|
| 1 | 41X1562 | 1 | 1 | Tray insert paper length guide | “Tray insert paper length guide removal” on page 906 |
| 2 | 40X9308 | 1 | 1 | Tray near empty sensor actuator | “Tray near empty sensor actuator removal” on page 741 |

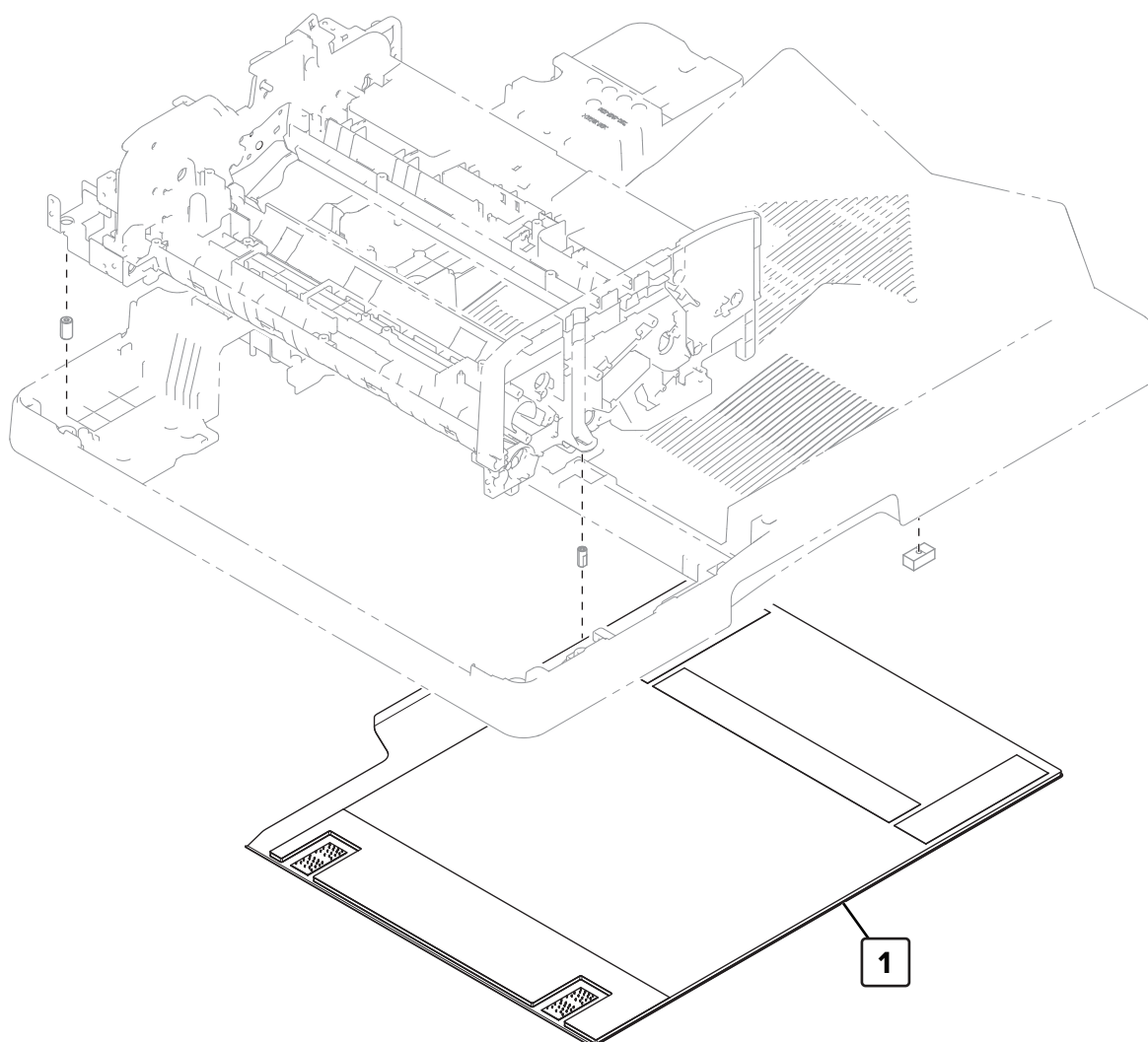
Assembly 43: ADF covers 1



Assembly 43: ADF covers 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|----------------------|--|
| 1 | 41X1910 | 1 | 1 | Right hinge cover | -- |
| 2 | 41X1382 | 1 | 1 | ADF controller board | “ADF controller board removal” on page 773 |
| 3 | 40X8861 | 1 | 1 | ADF right hinge | “ADF right hinge removal” on page 749 |
| 4 | 41X1384 | 1 | 1 | ADF front cover | “ADF front cover removal” on page 751 |
| 5 | 41X1385 | 1 | 1 | ADF left hinge | “ADF left hinge removal” on page 750 |
| 6 | 41X1381 | 1 | 1 | ADF fan | “ADF fan removal” on page 773 |
| 7 | 41X1386 | 1 | 1 | ADF CIS cable | “ADF CIS cable removal” on page 772 |
| 8 | 41X1909 | 1 | 1 | Left hinge cover | -- |
| 9 | 41X1380 | 1 | 1 | ADF rear cover | “ADF rear cover removal” on page 751 |

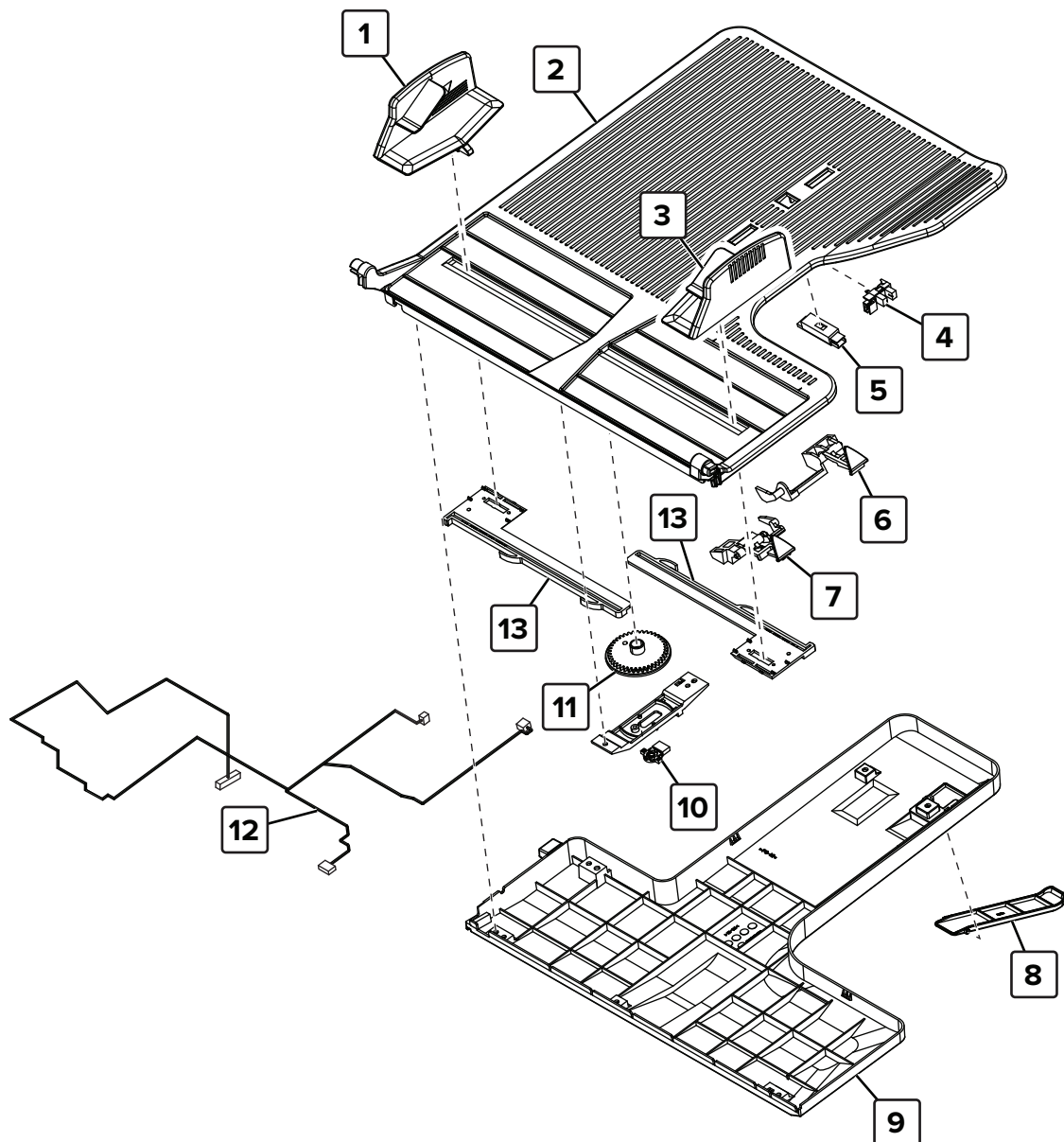
Assembly 44: ADF covers 2



Assembly 44: ADF covers 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------|-------------------|
| 1 | 41X2003 | 1 | 1 | ADF glass pad | -- |

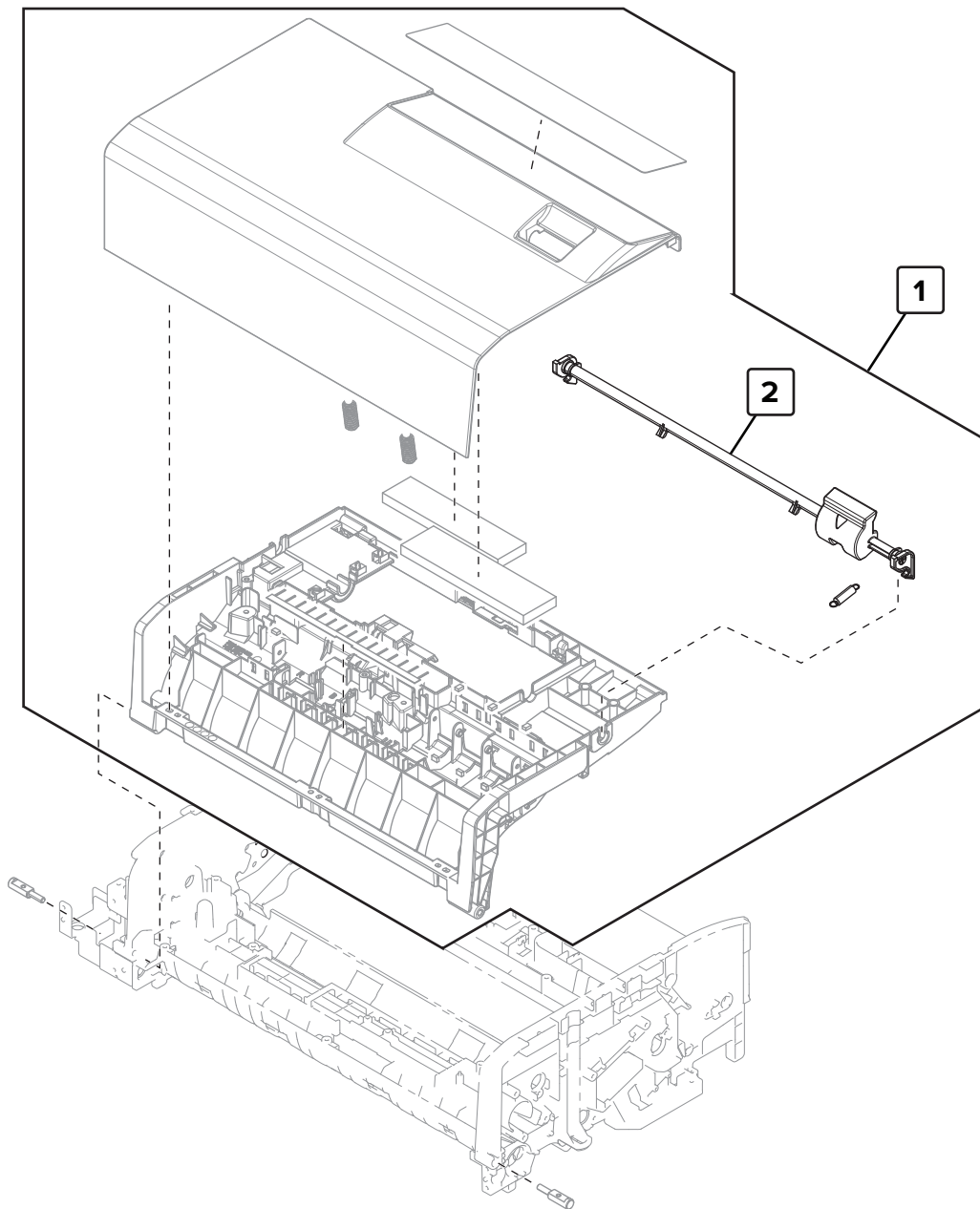
Assembly 45: ADF paper feed



Assembly 45: ADF paper feed

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|--|--|
| 1 | 40X9940 | 1 | 1 | ADF rear paper guide | -- |
| 2 | 40X9941 | 1 | 1 | ADF tray | -- |
| 3 | 40X9942 | 1 | 1 | ADF front paper guide | -- |
| 4 | 41X1391 | 1 | 1 | Sensor (ADF paper length 2) | “Sensors (ADF tray section) removal” on page 760 |
| 5 | 40X8868 | 1 | 1 | Sensor (ADF paper length 1) | “Sensors (ADF tray section) removal” on page 760 |
| 6 | 40X8872 | 1 | 1 | ADF paper length 2 sensor actuator (Legal) | “ADF paper length 2 sensor actuator removal” on page 793 |
| 7 | 40X9748 | 1 | 1 | ADF paper length 2 sensor actuator (A4) | “ADF paper length 2 sensor actuator removal” on page 793 |
| 8 | 40X9943 | 1 | 1 | ADF bin paper stopper | “ADF bin paper stopper removal” on page 790 |
| 9 | 40X9944 | 1 | 1 | ADF tray bottom cover | “ADF tray bottom cover removal” on page 791 |
| 10 | 40X8870 | 1 | 1 | Sensor (ADF paper width) | “Sensor (ADF paper width) removal” on page 791 |
| 11 | 40X9747 | 1 | 1 | ADF paper guide gear | “ADF paper guide gear removal” on page 794 |
| 12 | 40X8873 | 1 | 1 | ADF tray cable | “ADF tray cable removal” on page 798 |
| 13 | 40X9945 | 1 | 1 | ADF paper guide rack | “ADF paper guide racks removal” on page 796 |

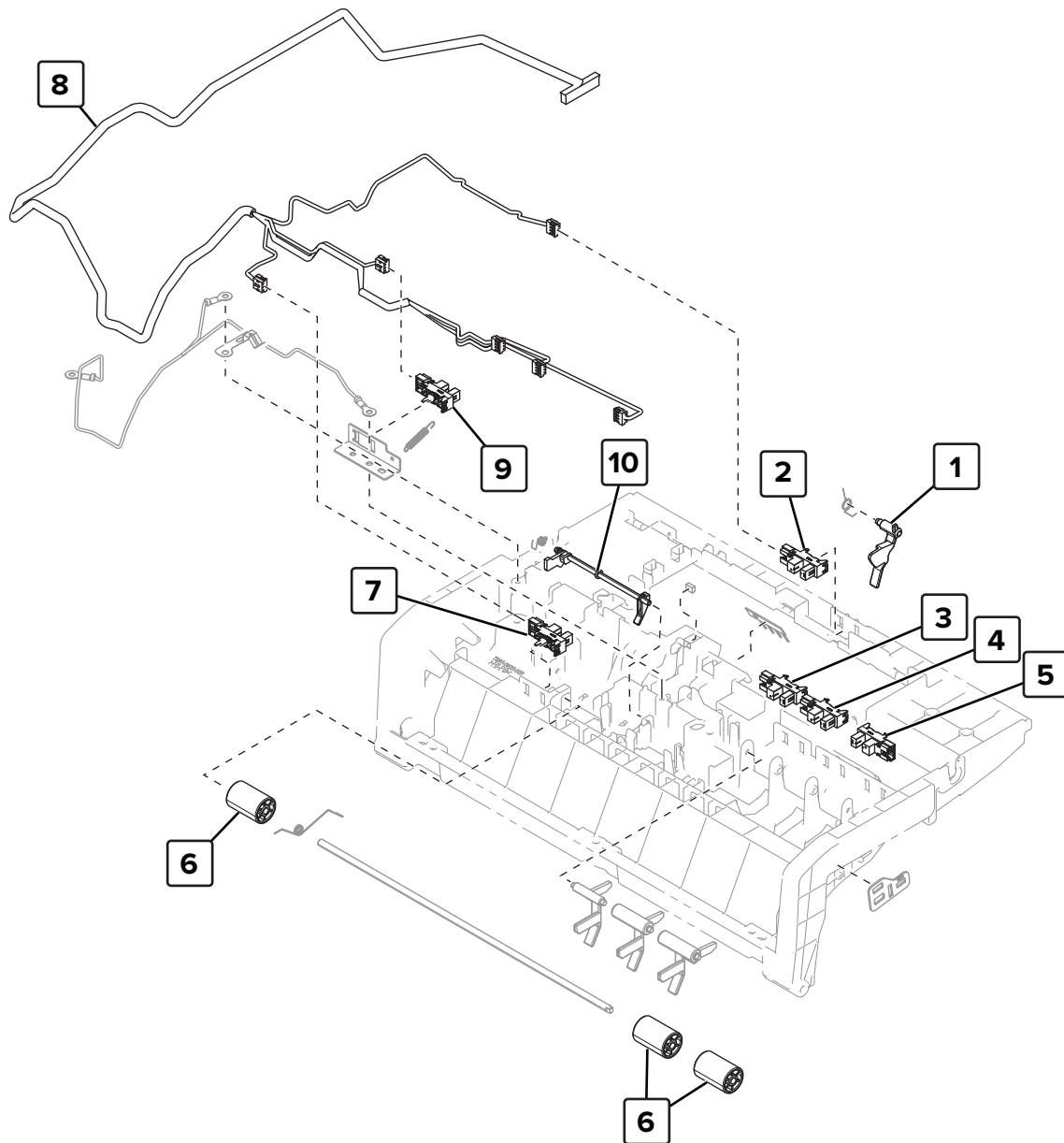
Assembly 46: ADF paper pick 1



Assembly 46: ADF paper pick 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------------|---|
| 1 | 41X1397 | 1 | 1 | ADF jam door assembly | -- |
| 2 | 40X8875 | 1 | 1 | ADF door latch | “ADF door latch removal” on page 800 |

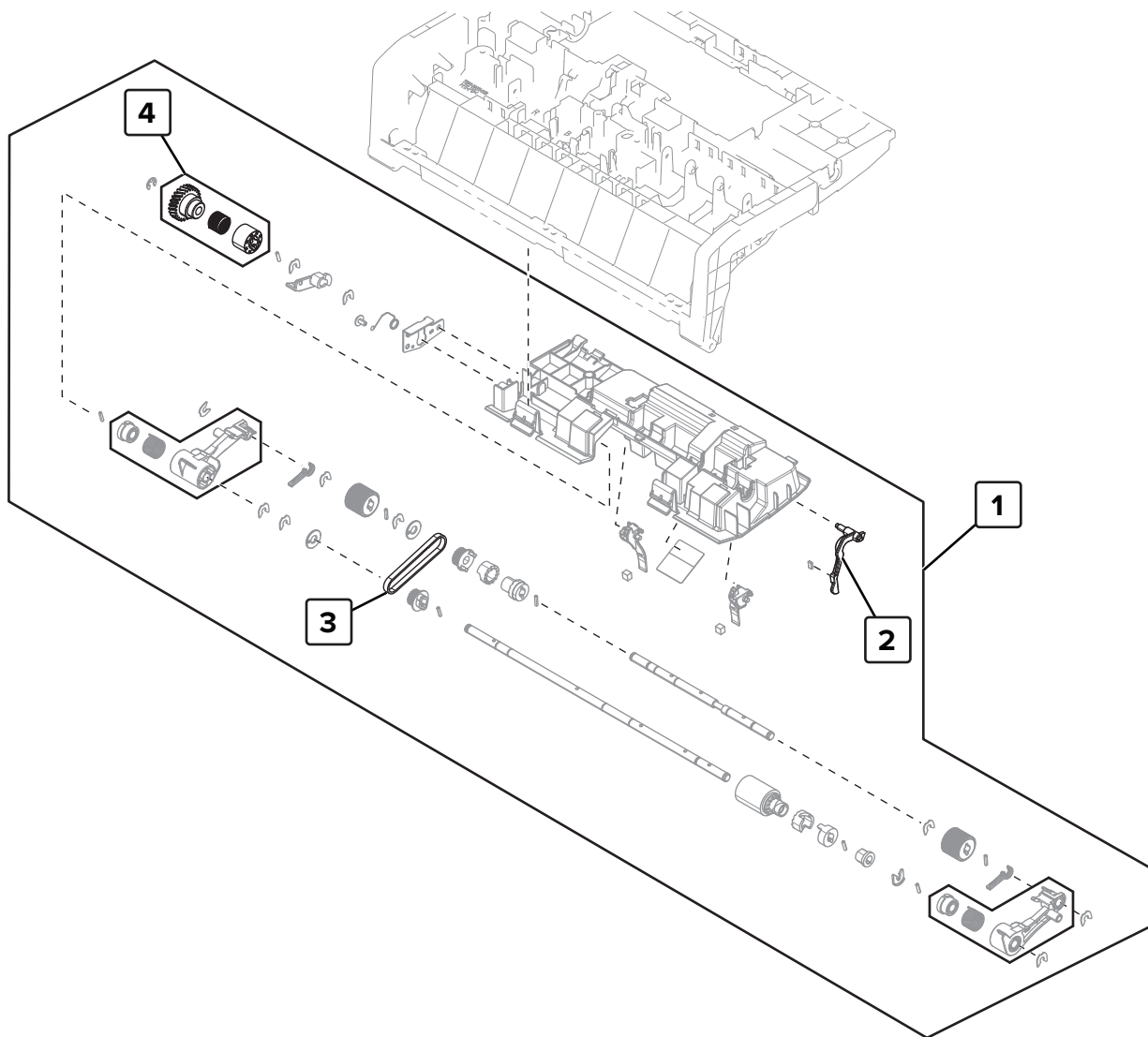
Assembly 47: ADF paper pick 2



Assembly 47: ADF paper pick 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-------------------------------------|--|
| 1 | 41X1399 | 1 | 1 | ADF document separation sensor flag | -- |
| 2 | 41X1391 | 1 | 1 | Sensor (ADF tray empty) | “Sensors (ADF top open cover section) removal” on page 761 |
| 3 | 41X1391 | 1 | 1 | Sensor (ADF mixed paper width 1) | “Sensors (ADF top open cover section) removal” on page 761 |
| 4 | 41X1391 | 1 | 1 | Sensor (ADF mixed paper width 2) | “Sensors (ADF top open cover section) removal” on page 761 |
| 5 | 41X1391 | 1 | 1 | Sensor (ADF mixed paper width 3) | “Sensors (ADF top open cover section) removal” on page 761 |
| 6 | 40X9948 | 3 | 1 | ADF registration idler roller | “ADF registration idler rollers removal” on page 802 |
| 7 | 41X1391 | 1 | 1 | Sensor (ADF registration) | “Sensors (ADF top open cover section) removal” on page 761 |
| 8 | 41X1400 | 1 | 1 | ADF top cover sensor cable | “ADF top cover sensor cable removal” on page 801 |
| 9 | 41X1391 | 1 | 1 | Sensor (ADF document separation) | “Sensors (ADF top open cover section) removal” on page 761 |
| 10 | 41X1398 | 1 | 1 | ADF registration sensor flag | -- |

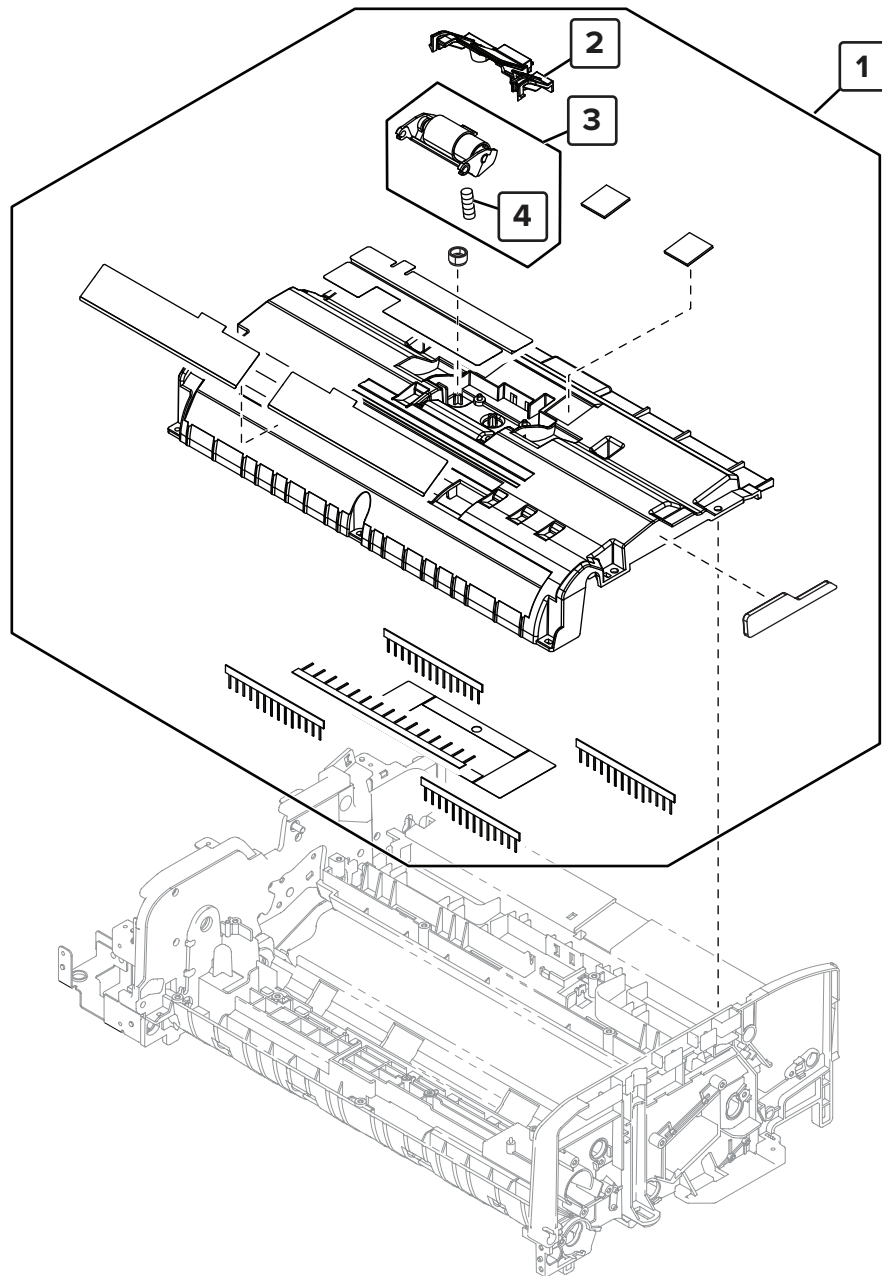
Assembly 48: ADF paper pick 3



Assembly 48: ADF paper pick 3

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------------------------|--|
| 1 | 41X1404 | 1 | 1 | ADF feed and pick roller assembly | “ADF pick and feed assembly removal” on page 754 |
| 2 | 41X1402 | 1 | 1 | ADF tray empty sensor flag | -- |
| 3 | 40X8880 | 1 | 1 | ADF feed belt | -- |
| 4 | 41X1401 | 1 | 1 | ADF pick drive gear | -- |

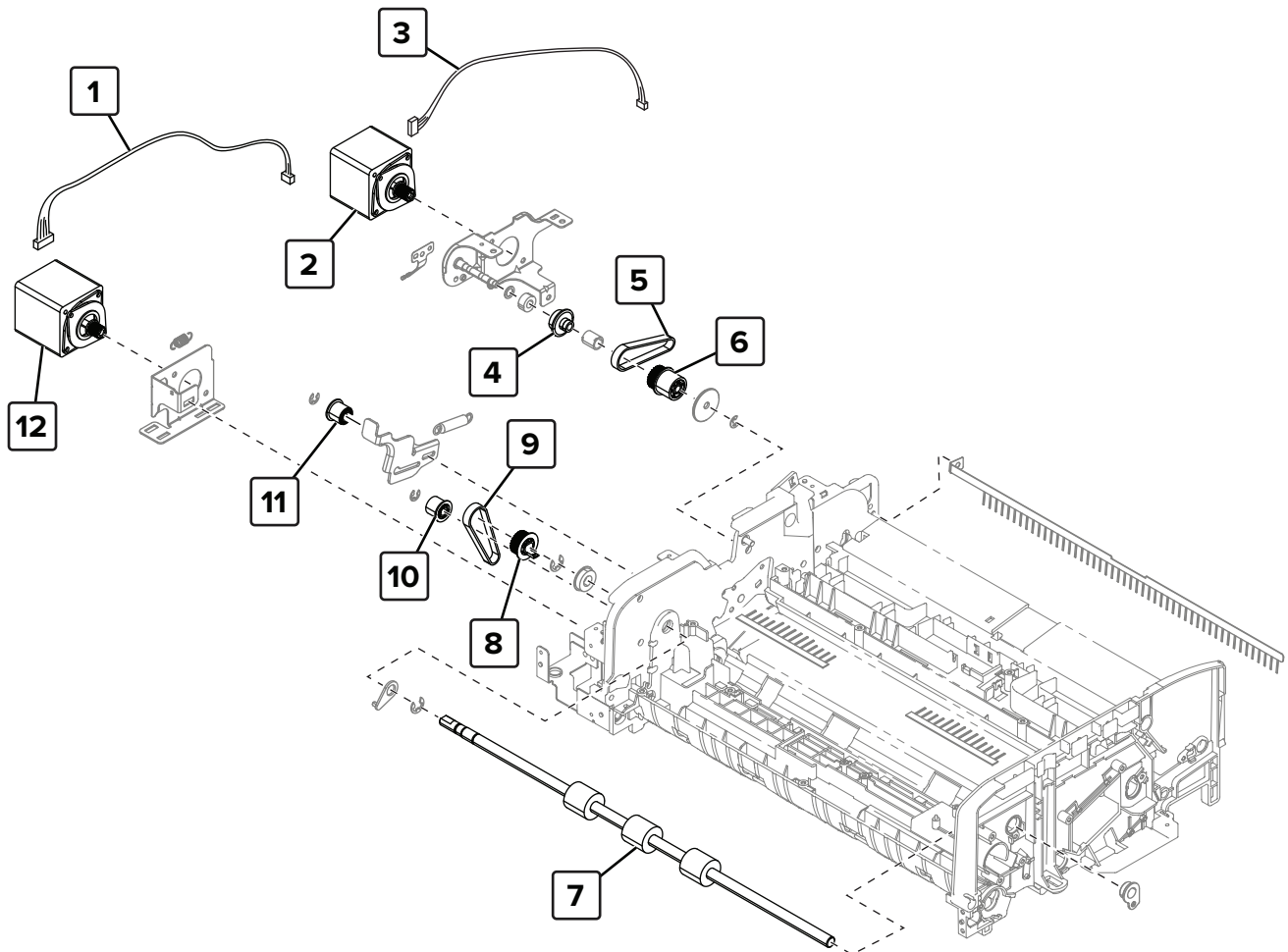
Assembly 49: ADF paper transport 1



Assembly 49: ADF paper transport 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-----------------------------|---|
| 1 | 41X1994 | 1 | 1 | ADF registration guide | “ADF registration guide removal” on page 753 |
| 2 | 41X1405 | 1 | 1 | ADF separator pad | “ADF separator pad, roller, and spring removal” on page 746 |
| 3 | 40X9682 | 1 | 1 | ADF separator roller | “ADF separator pad, roller, and spring removal” on page 746 |
| 4 | 41X1601 | 1 | 1 | ADF separator roller spring | “ADF separator pad, roller, and spring removal” on page 746 |

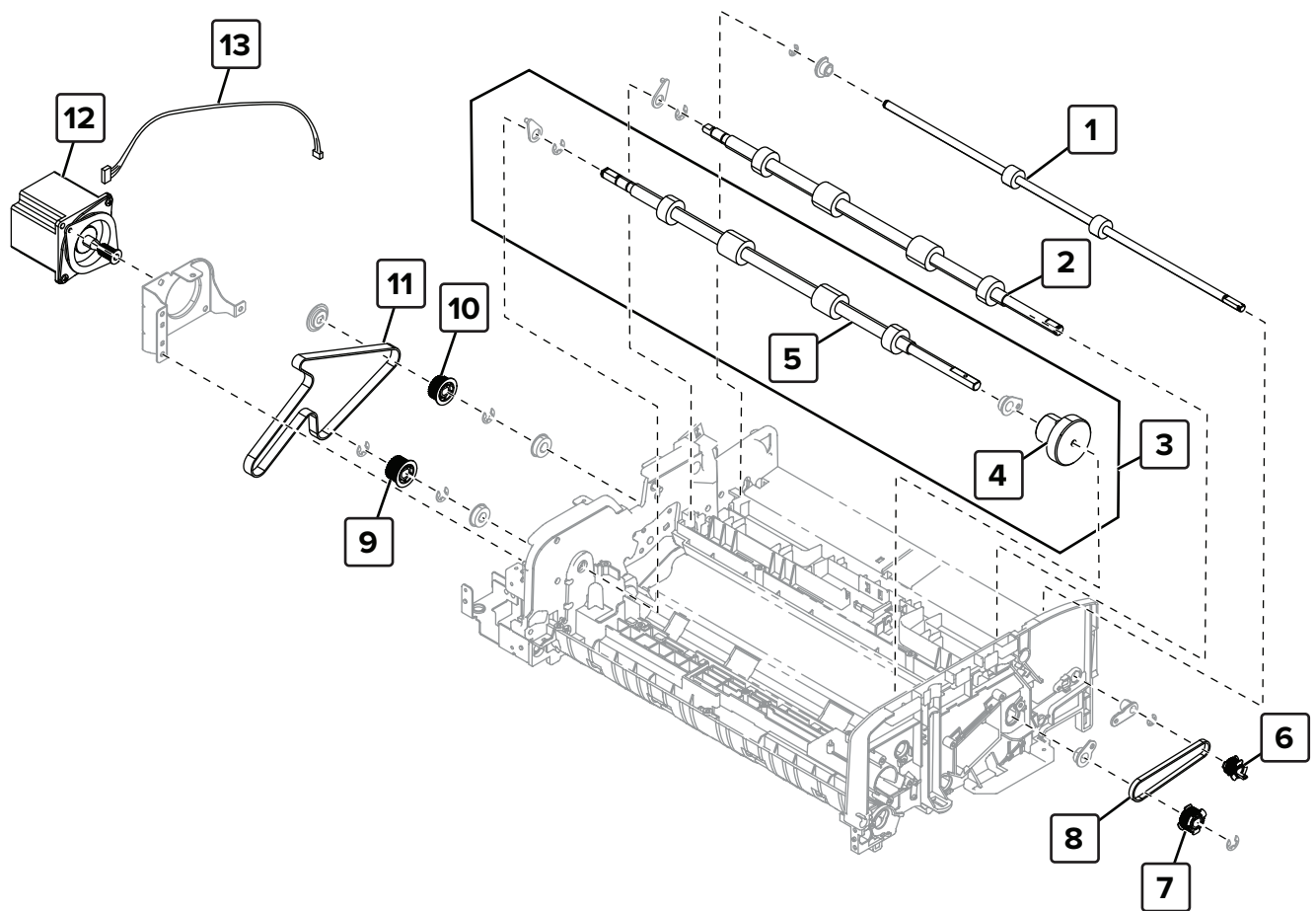
Assembly 50: ADF paper transport 2



Assembly 50: ADF paper transport 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|----------------------------------|--|
| 1 | 40X8888 | 1 | 1 | ADF motor cable | -- |
| 2 | 40X8884 | 1 | 1 | Motor (ADF feed) | “Motor (ADF feed) removal” on page 807 |
| 3 | 40X9683 | 1 | 1 | ADF feed motor cable | -- |
| 4 | 41X1588 | 1 | 1 | ADF document feed gear | “ADF document feed gear removal” on page 809 |
| 5 | 41X1995 | 1 | 1 | ADF feed belt | “ADF feed belt removal” on page 808 |
| 6 | 40X9950 | 1 | 1 | ADF feed gear | “ADF document feed gear removal” on page 809 |
| 7 | 40X9951 | 1 | 1 | ADF registration roller | “ADF registration roller removal” on page 818 |
| 8 | 40X9952 | 1 | 1 | ADF registration gear | “ADF registration gear removal” on page 818 |
| 9 | 41X1995 | 1 | 1 | ADF registration belt | “ADF registration gear removal” on page 818 |
| 10 | 41X1589 | 1 | 1 | ADF document registration gear 1 | -- |
| 11 | 41X1589 | 1 | 1 | ADF document registration gear 2 | -- |
| 12 | 40X8887 | 1 | 1 | Motor (ADF registration) | “Motor (ADF registration) removal” on page 815 |

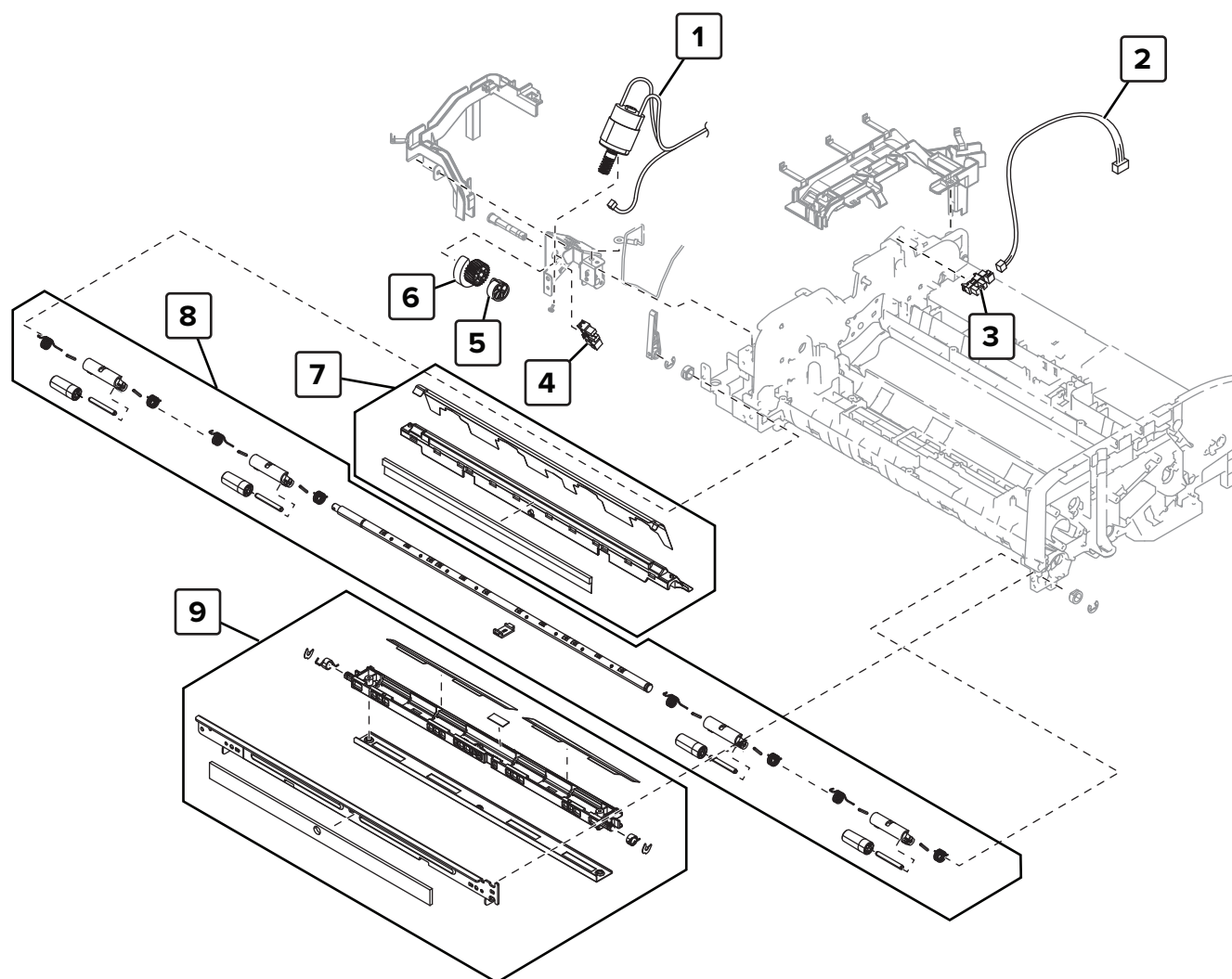
Assembly 51: ADF paper transport 3



Assembly 51: ADF paper transport 3

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------------|---|
| 1 | 40X8891 | 1 | 1 | ADF document exit roller | “ADF document exit roller removal” on page 829 |
| 2 | 40X8893 | 1 | 1 | ADF scan roller 3 | “ADF scan roller 3 removal” on page 826 |
| 3 | 41X2092 | 1 | 1 | ADF scan roller 2 with wheel | “ADF scan roller 2 gear removal” on page 777 |
| 4 | 41X2069 | 1 | 1 | ADF scan roller 2 wheel | “ADF scan roller 2 gear removal” on page 777 |
| 5 | 41X2068 | 1 | 1 | ADF scan roller 2 | “ADF scan roller 2 gear removal” on page 777 |
| 6 | 40X9687 | 1 | 1 | ADF exit roller gear | “ADF exit roller gear removal” on page 806 |
| 7 | 40X9688 | 1 | 1 | ADF scan roller 3 gear | “ADF scan roller 3 gear removal” on page 806 |
| 8 | 40X8892 | 1 | 1 | ADF scan/exit roller belt | “ADF scan/exit roller belt removal” on page 752 |
| 9 | 40X9685 | 1 | 1 | ADF scan motor gear | “ADF scan motor gear removal” on page 777 |
| 10 | 40X9686 | 1 | 1 | ADF scan roller 2 gear | “ADF scan roller 2 gear removal” on page 777 |
| 11 | 40X8890 | 1 | 1 | ADF scan motor belt | “ADF scan motor belt removal” on page 822 |
| 12 | 40X8889 | 1 | 1 | Motor (ADF scan) | “Motor (ADF scan) removal” on page 812 |
| 13 | 40X9684 | 1 | 1 | ADF scan motor cable | -- |

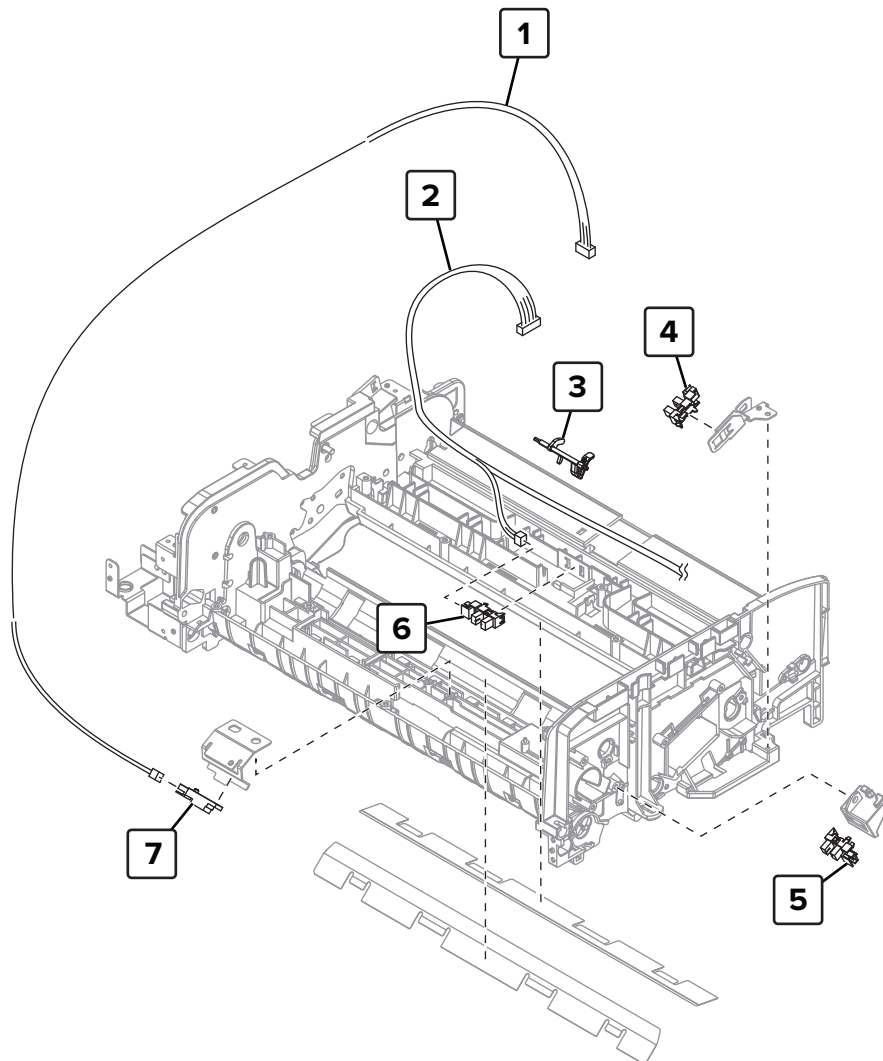
Assembly 52: ADF paper transport 4



Assembly 52: ADF paper transport 4

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------------|--|
| 1 | 40X8896 | 1 | 1 | Motor (ADF scan shaft release) | “Motor (ADF scan shaft release) removal” on page 811 |
| 2 | 40X9689 | 1 | 1 | ADF door open sensor cable | -- |
| 3 | 41X1391 | 1 | 1 | Sensor (ADF top cover open) | “Sensor (ADF top cover open) removal” on page 760 |
| 4 | 41X1391 | 1 | 1 | Sensor (ADF scan shaft home) | “Sensor (ADF scan shaft home) removal” on page 759 |
| 5 | 41X1408 | 1 | 1 | ADF CIS clean cam | “ADF CIS clean cam and gear removal” on page 789 |
| 6 | 40X9957 | 1 | 1 | ADF CIS clean gear | “ADF CIS clean cam and gear removal” on page 789 |
| 7 | 41X1996 | 1 | 1 | ADF scan deflector | “ADF scan deflector removal” on page 835 |
| 8 | 41X1997 | 1 | 1 | ADF scan roller 1 backup roller | “ADF scan deflector removal” on page 835 |
| 9 | 41X1998 | 1 | 1 | ADF scan guide | “ADF scan deflector removal” on page 835 |

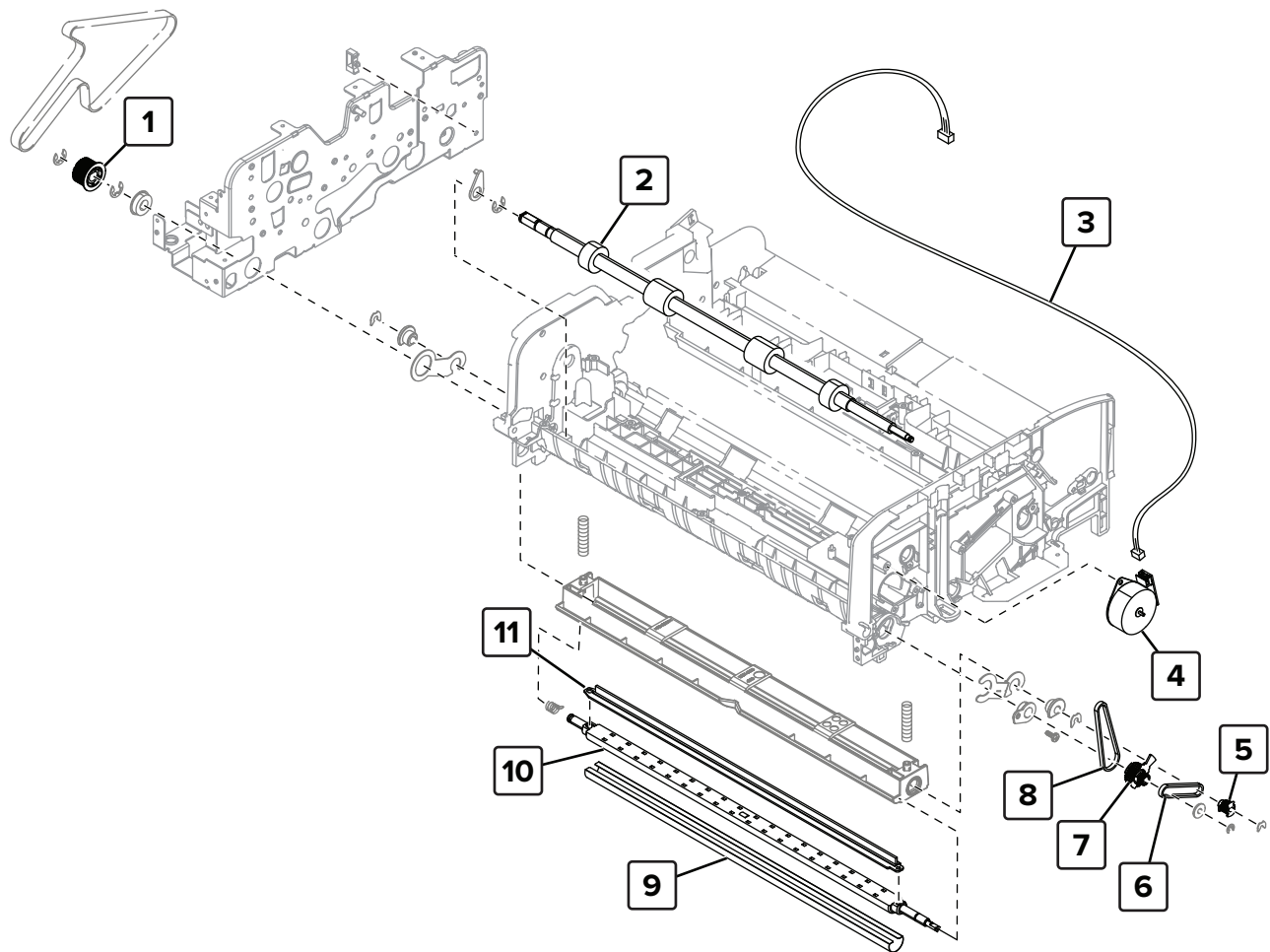
Assembly 53: ADF paper transport 5



Assembly 53: ADF paper transport 5

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-------------------------------|---|
| 1 | 40X9690 | 1 | 1 | ADF scan sensor cable | “ADF scan sensor cable removal” on page 805 |
| 2 | 40X9212 | 1 | 1 | ADF exit sensor cable | “ADF exit sensor cable removal” on page 804 |
| 3 | 41X1409 | 1 | 1 | ADF exit sensor actuator | -- |
| 4 | 41X1391 | 1 | 1 | Sensor (ADF jam access cover) | “Sensor (ADF jam access cover) removal” on page 758 |
| 5 | 41X1391 | 1 | 1 | Sensor (scan glass clean) | “Sensor (scan glass clean) removal” on page 763 |
| 6 | 41X1391 | 1 | 1 | Sensor (ADF exit) | “Sensor (ADF exit) removal” on page 804 |
| 7 | 41X1590 | 1 | 1 | Sensor (ADF scan) | “Sensor (ADF scan) removal” on page 757 |

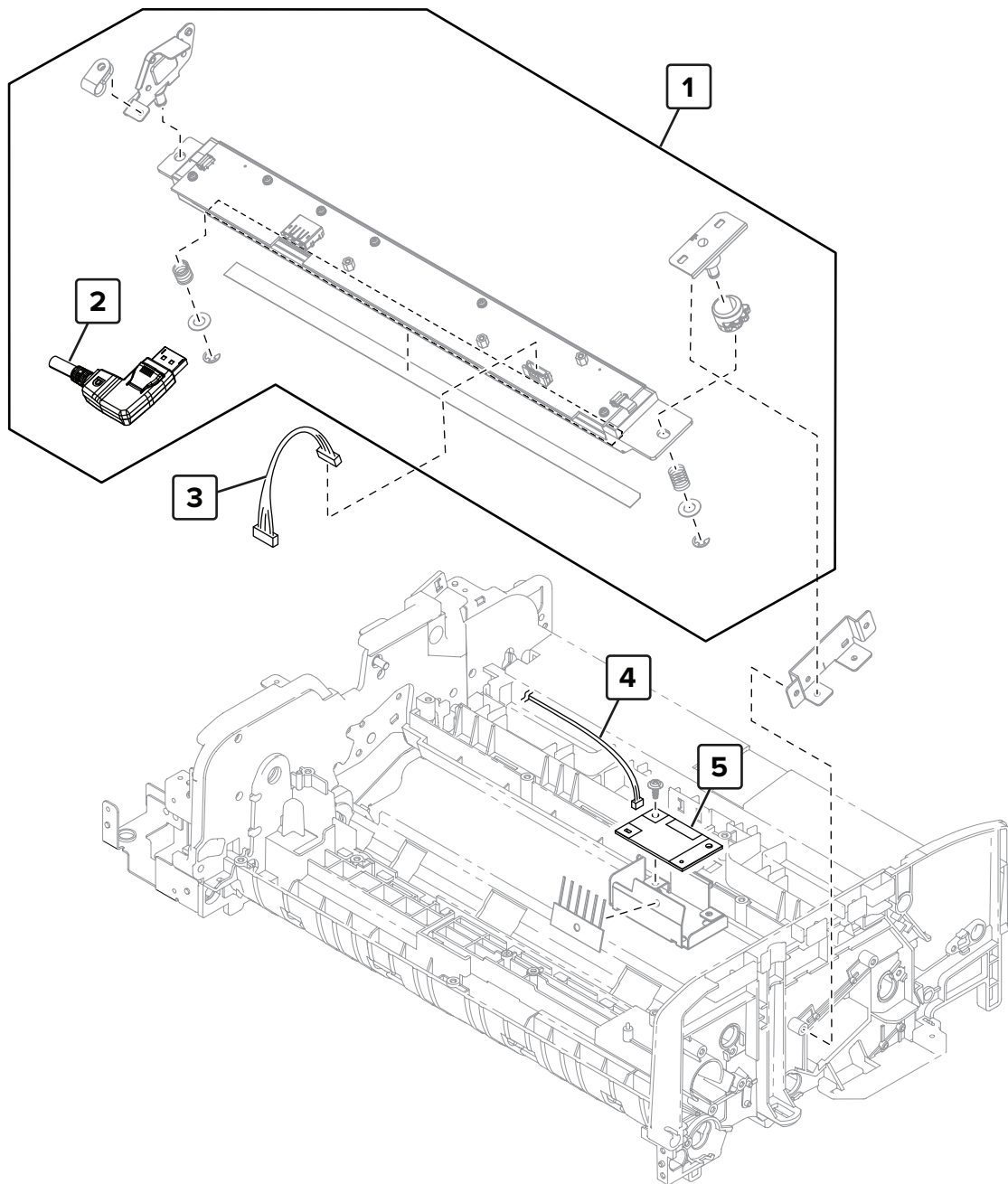
Assembly 54: ADF paper transport 6



Assembly 54: ADF paper transport 6

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------------|--|
| 1 | 40X9685 | 1 | 1 | ADF transport gear | “ADF transport gear removal” on page 821 |
| 2 | 40X9953 | 1 | 1 | ADF scan roller 1 | “ADF scan roller 1 removal” on page 825 |
| 3 | 40X9695 | 1 | 1 | CIS glass clean motor cable | -- |
| 4 | 40X9213 | 1 | 1 | Motor (CIS glass clean) | “Motor (CIS glass clean) removal” on page 816 |
| 5 | 40X9693 | 1 | 1 | CIS glass clean gear | “CIS glass clean gear removal” on page 823 |
| 6 | 40X9214 | 1 | 1 | CIS glass clean belt | “ADF glass clean encoder belt removal” on page 824 |
| 7 | 40X9694 | 1 | 1 | ADF glass clean encoder | “ADF glass clean encoder removal” on page 824 |
| 8 | 40X9691 | 1 | 1 | ADF glass clean encoder belt | “ADF glass clean encoder belt removal” on page 824 |
| 9 | 41X1778 | 1 | 1 | Scan glass cleaner | “Cleaning shaft removal” on page 833 |
| 10 | 41X1779 | 1 | 1 | Cleaning shaft | “Cleaning shaft removal” on page 833 |
| 11 | 41X1777 | 1 | 1 | Scan glass brush | “Scan glass brush removal” on page 832 |

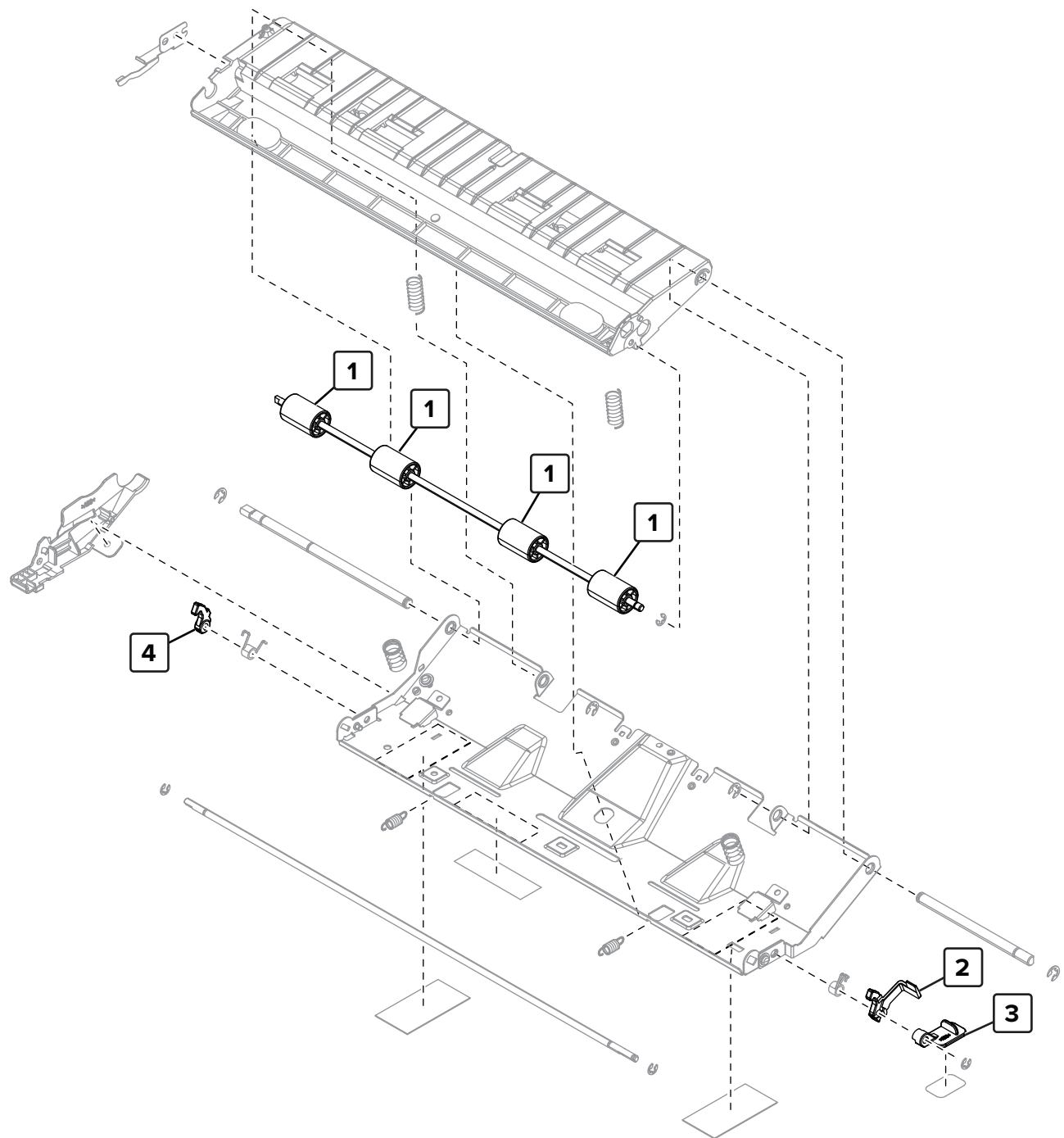
Assembly 55: ADF CIS 1



Assembly 55: ADF CIS 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|----------------------------------|--|
| 1 | 41X1411 | 1 | 1 | ADF CIS assembly | “ADF CIS assembly removal” on page 767 |
| 2 | 41X1410 | 1 | 1 | ADF CIS data cable | “ADF CIS data cable removal” on page 775 |
| 3 | 40X9218 | 1 | 1 | ADF CIS power supply cable | “ADF CIS power supply cable removal” on page 770 |
| 4 | 41X1911 | 1 | 1 | ADF CIS power supply board cable | “ADF CIS power supply board cable removal” on page 771 |
| 5 | 41X1912 | 1 | 1 | ADF CIS power supply board | “ADF CIS power supply board removal” on page 770 |

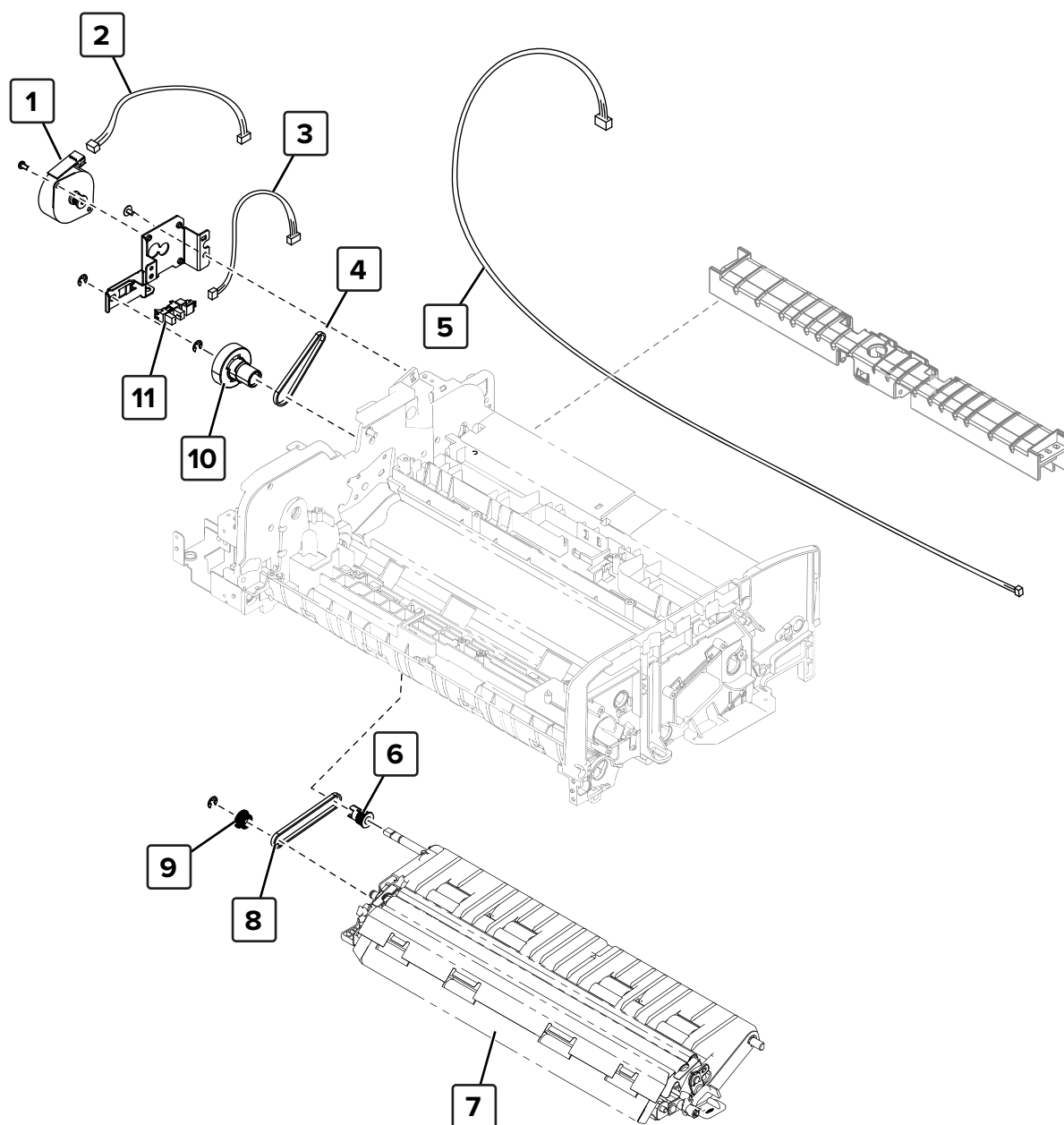
Assembly 56: ADF CIS 2



Assembly 56: ADF CIS 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|----------------------------|--|
| 1 | 40X9948 | 4 | 1 | ADF CIS idler roller | “ADF CIS power supply board removal” on page 770 |
| 2 | 40X9956 | 1 | 1 | ADF CIS jam access latch 1 | “ADF CIS jam access latch 1 removal” on page 781 |
| 3 | 40X9955 | 1 | 1 | ADF CIS jam access handle | “ADF CIS jam access handle removal” on page 781 |
| 4 | 41X1412 | 1 | 1 | ADF CIS jam access latch 2 | “ADF CIS jam access latch 2 removal” on page 779 |

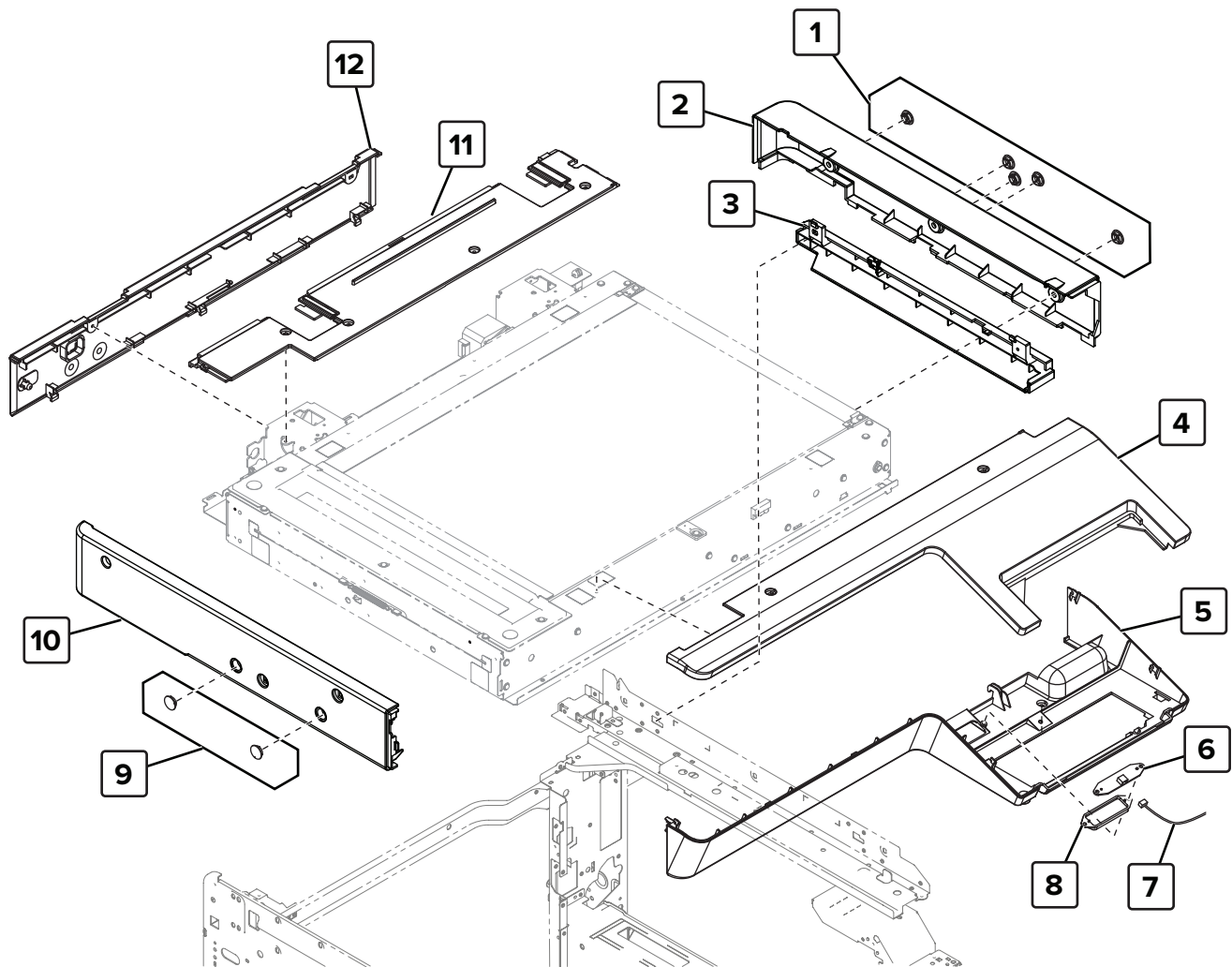
Assembly 57: ADF CIS 3



Assembly 57: ADF CIS 3

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|-------------------------------------|---|
| 1 | 40X9220 | 1 | 1 | Motor (ADF CIS clean) | “Motor (ADF CIS clean) removal” on page 763 |
| 2 | 40X9699 | 1 | 1 | ADF CIS clean motor cable | -- |
| 3 | 40X9700 | 1 | 1 | ADF CIS clean sensor cable | -- |
| 4 | 40X9691 | 1 | 1 | ADF CIS clean belt | “ADF CIS clean belt removal” on page 778 |
| 5 | 40X9701 | 1 | 1 | ADF exit sensor cable | “ADF exit sensor cable removal” on page 804 |
| 6 | 40X9959 | 1 | 1 | ADF CIS clean roller primary gear | “ADF CIS jam access cover removal” on page 783 |
| 7 | 41X1760 | 1 | 1 | ADF CIS jam access cover | “ADF CIS jam access cover removal” on page 783 |
| 8 | 40X9960 | 1 | 1 | ADF CIS clean roller belt | “ADF CIS jam access cover removal” on page 783 |
| 9 | 40X9961 | 1 | 1 | ADF CIS clean roller secondary gear | “ADF CIS clean roller secondary gear removal” on page 782 |
| 10 | 41X1407 | 1 | 1 | ADF CIS clean sensor actuator | “ADF CIS clean sensor actuator removal” on page 779 |
| 11 | 41X1391 | 1 | 1 | Sensor (ADF CIS clean) | “Sensor (ADF CIS clean) removal” on page 817 |

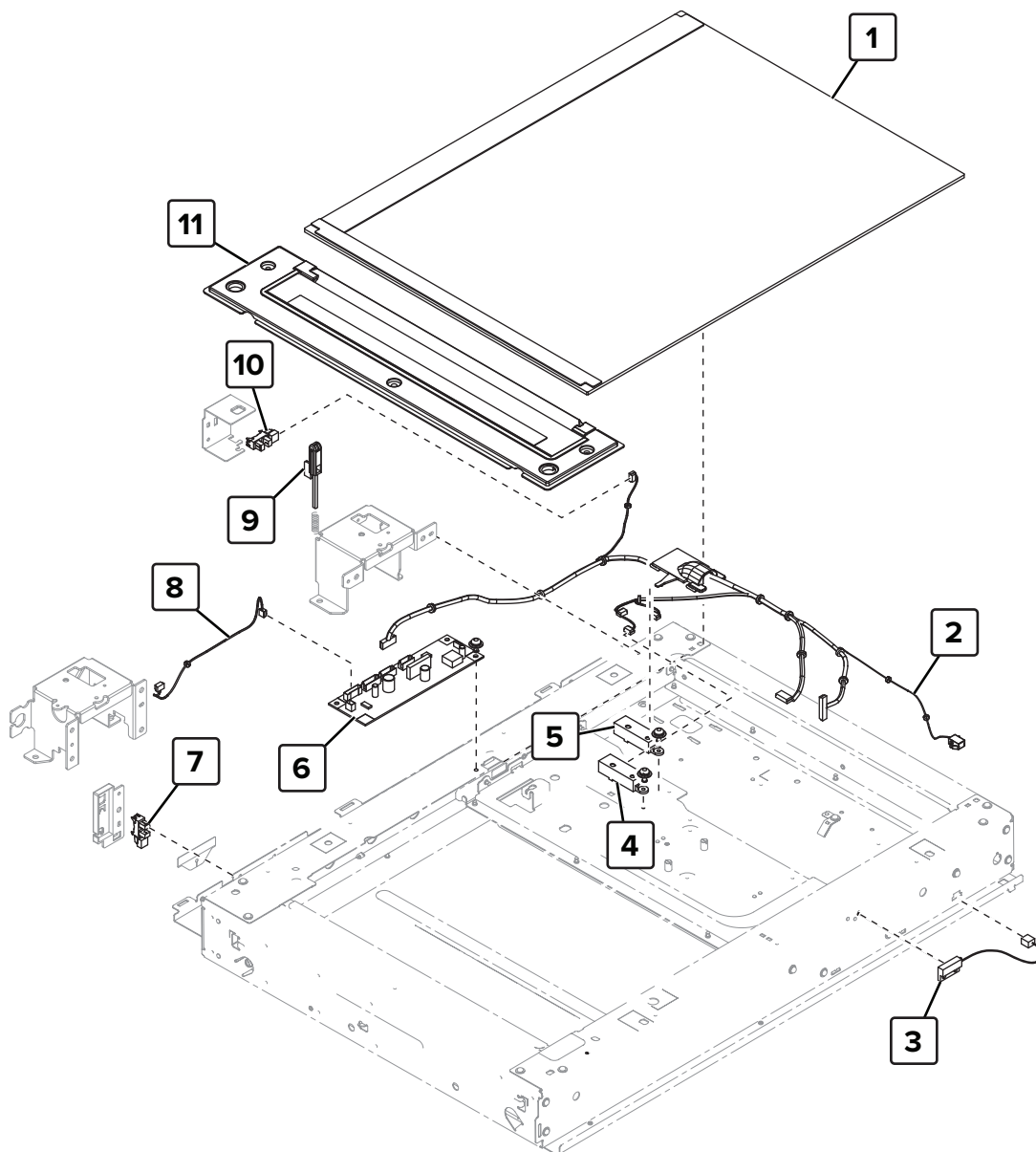
Assembly 58: Flatbed scanner covers



Assembly 58: Flatbed scanner covers

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|----------------------------|--|
| 1 | 40X8924 | 5 | 1 | Screw hole cover | -- |
| 2 | 40X8923 | 1 | 1 | Scanner right cover | “Scanner right cover removal” on page 840 |
| 3 | 41X1840 | 1 | 1 | Top right edge cover | “Top right edge cover removal” on page 438 |
| 4 | 41X1587 | 1 | 1 | Scanner front cover | “Scanner front cover removal” on page 841 |
| 5 | 41X1916 | 1 | 1 | Scanner bottom front cover | “Scanner bottom front cover removal” on page 842 |
| 6 | 41X1918 | 1 | 1 | Cave light LED | “Cave light LED removal” on page 546 |
| 7 | 41X1919 | 1 | 1 | Cave light LED cablè | -- |
| 8 | 41X1917 | 1 | 1 | Cave light lens | -- |
| 9 | 40X8924 | 2 | 1 | Screw hole cover | -- |
| 10 | 40X8926 | 1 | 1 | Scanner left cover | “Scanner left cover removal” on page 839 |
| 11 | 41X1434 | 1 | 1 | Scanner top cover | “Scanner top cover removal” on page 844 |
| 12 | 41X1433 | 1 | 1 | Scanner rear cover | “Scanner rear cover removal” on page 839 |

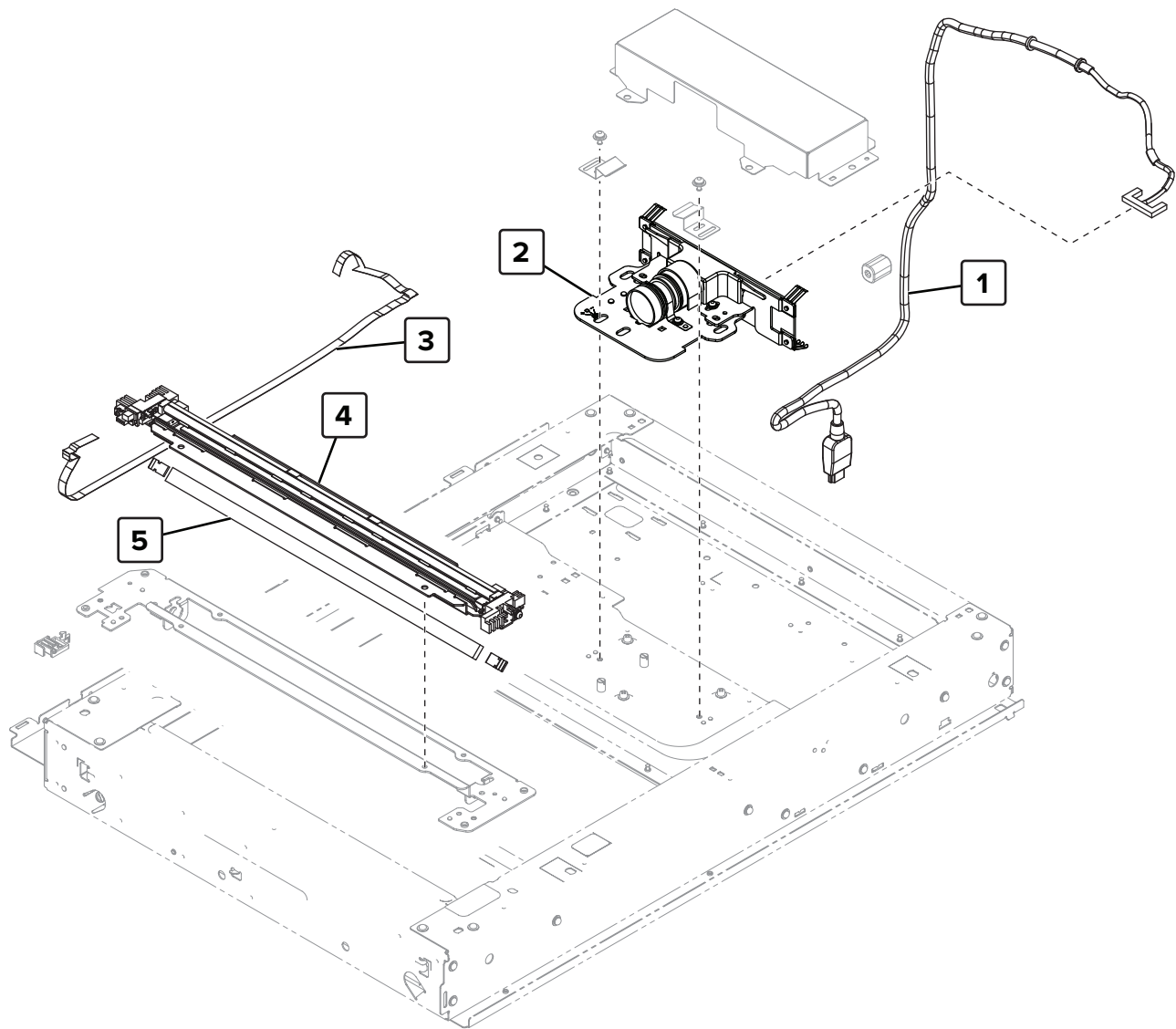
Assembly 59: Flatbed scanner 1



Assembly 59: Flatbed scanner 1

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|------------------------------------|---|
| 1 | 40X8928 | 1 | 1 | Scanner glass | “Scanner glass removal” on page 850 |
| 2 | 40X9702 | 1 | 1 | Scanner sensor cable | “Scanner sensor cable removal” on page 852 |
| 3 | 40X8930 | 1 | 1 | Sensor (scanner cover switch) | “Sensor (scanner cover switch) removal” on page 841 |
| 4 | 40X8932 | 1 | 1 | Sensor (scanner paper length 2) | “Sensor (scanner paper length 2) removal” on page 857 |
| 5 | 40X8932 | 1 | 1 | Sensor (scanner paper length 1) | “Sensor (scanner paper length 1) removal” on page 856 |
| 6 | 41X1443 | 1 | 1 | Scanner controller board | “Scanner controller board removal” on page 846 |
| 7 | 41X1391 | 1 | 1 | Sensor (scanner lamp home) | “Sensor (scanner lamp home) removal” on page 846 |
| 8 | 41X1440 | 1 | 1 | Scanner lamp home cable | -- |
| 9 | 40X8931 | 1 | 1 | Scanner cover open sensor actuator | “Sensor (scanner cover open) removal” on page 845 |
| 10 | 41X1444 | 1 | 1 | Sensor (scanner cover open) | “Sensor (scanner cover open) removal” on page 845 |
| 11 | 41X1442 | 1 | 1 | ADF duplex scan glass | “ADF duplex scan glass removal” on page 851 |

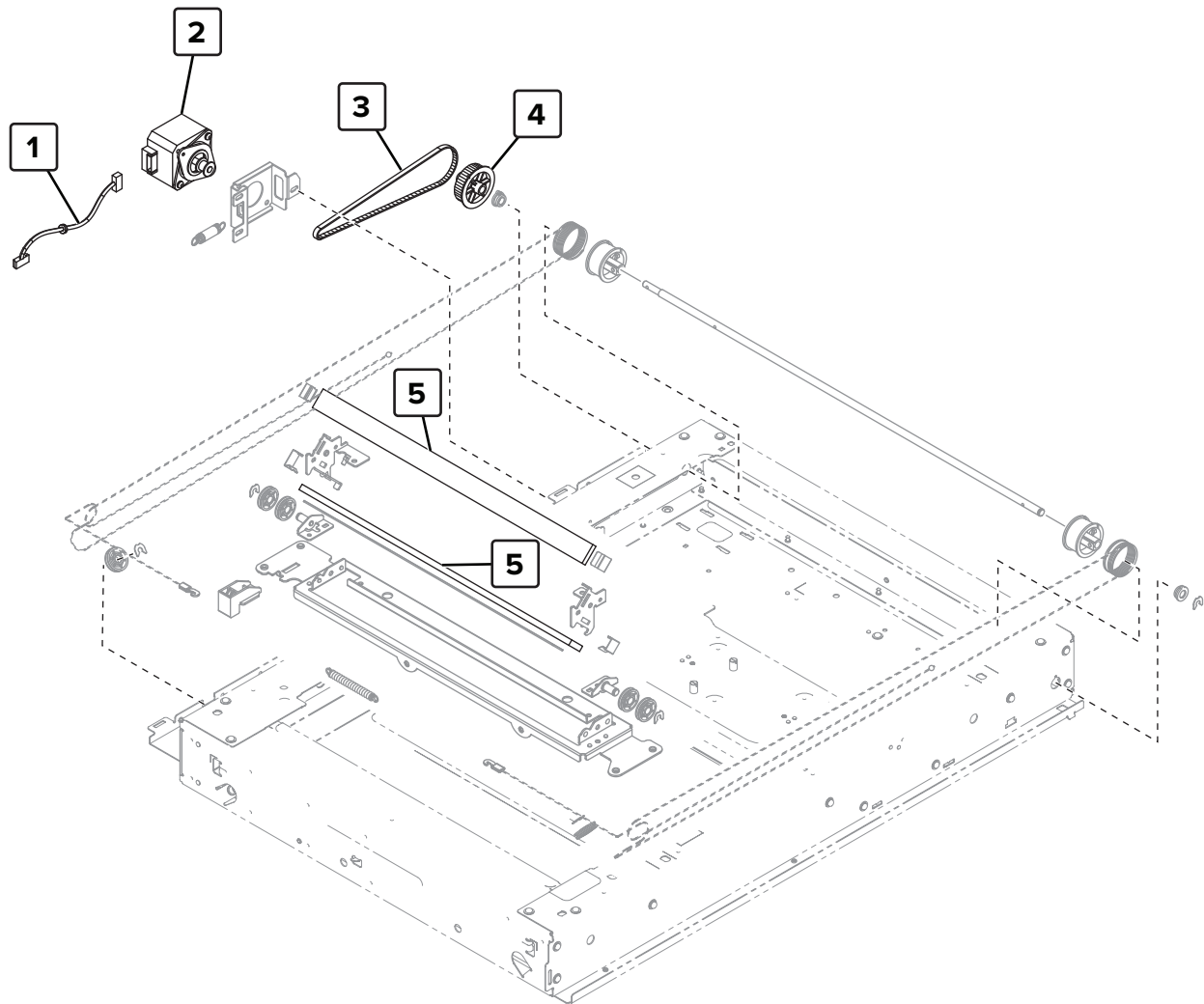
Assembly 60: Flatbed scanner 2



Assembly 60: Flatbed scanner 2

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------|---|
| 1 | 41X1445 | 1 | 1 | Scanner CCD cable | -- |
| 2 | 41X1446 | 1 | 1 | Scanner CCD lens assembly | “Scanner CCD lens assembly removal” on page 858 |
| 3 | 41X1768 | 1 | 1 | Scanner lamp cable | “Scanner lamp cable removal” on page 860 |
| 4 | 41X1767 | 1 | 1 | Scanner lamp | “Scanner lamp removal” on page 869 |
| 5 | 41X1920 | 1 | 1 | Scanner mirror 2 | “Scanner mirror 2 removal” on page 870 |

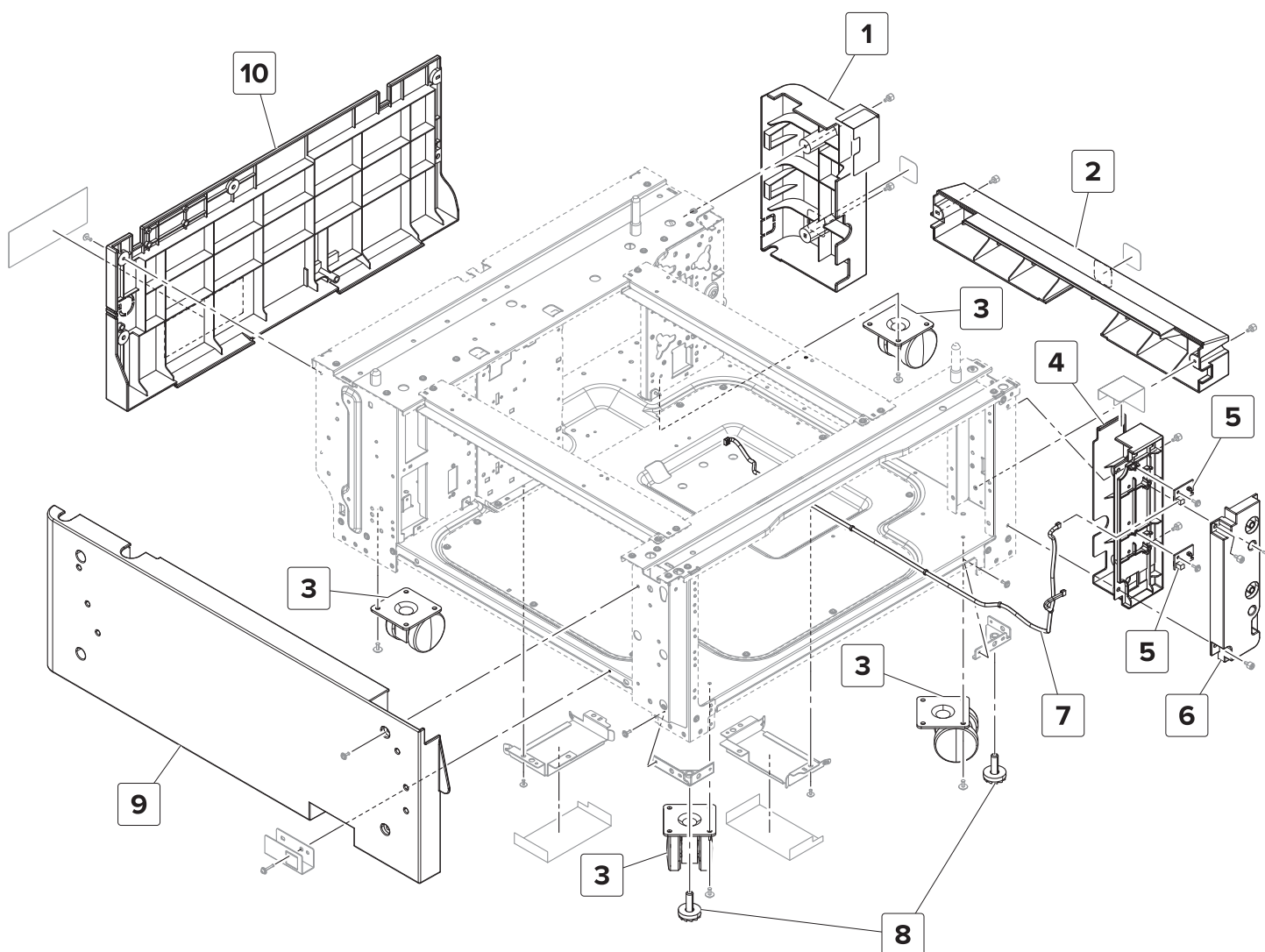
Assembly 61: Flatbed scanner 3



Assembly 61: Flatbed scanner 3

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------|---|
| 1 | 40X9975 | 1 | 1 | Scanner drive motor cable | “Scanner drive motor cable removal” on page 862 |
| 2 | 40X8940 | 1 | 1 | Motor (scanner drive) | “Motor (scanner drive) removal” on page 847 |
| 3 | 40X8941 | 1 | 1 | Scanner carriage belt | “Scanner carriage belt removal” on page 848 |
| 4 | 40X8942 | 1 | 1 | Scanner carriage gear | “Scanner carriage gear removal” on page 863 |
| 5 | 40X9976 | 2 | 1 | Scanner mirror 1 | “Scanner mirror 1 removal” on page 867 |

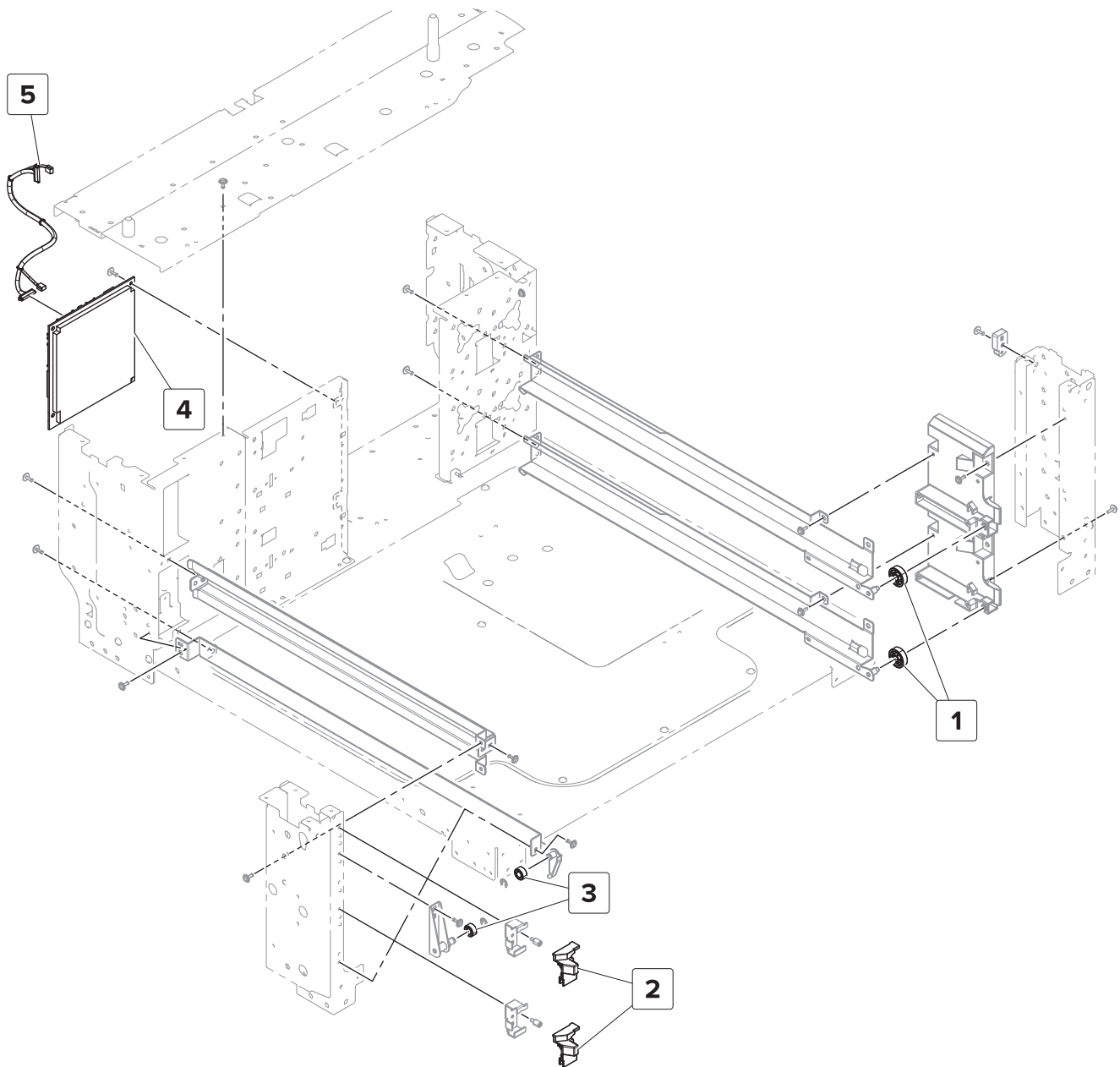
Assembly 62: 2 x 500-sheet tray—Covers



Assembly 62: 2 x 500-sheet tray—Covers

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---------------------------------------|---|
| 1 | 40X9779 | 1 | 1 | 2 x 500-sheet tray rear right cover | “2 x 500-sheet tray rear right cover removal” on page 920 |
| 2 | 40X9285 | 1 | 1 | 2 x 500-sheet tray bottom right cover | “2 x 500-sheet tray bottom right cover removal” on page 921 |
| 3 | 40x9282 | 4 | 1 | 2 x 500-sheet tray caster wheel | “2 x 500-sheet tray caster wheel removal” on page 905 |
| 4 | 41X1963 | 1 | 1 | 2 x 500-sheet tray empty LED mount | “2 x 500-sheet tray empty LED mount removal” on page 913 |
| 5 | 40X8903 | 2 | 1 | 2 x 500-sheet tray empty LED | “2 x 500-sheet tray empty LED removal” on page 913 |
| 6 | 41X1962 | 1 | 1 | 2 x 500-sheet tray empty LED cover | “2 x 500-sheet tray empty LED cover removal” on page 912 |
| 7 | 40X9289 | 1 | 1 | 2 x 500-sheet tray empty LED cable | -- |
| 8 | 40x9283 | 1 | 1 | Printer rubber stopper | “Printer rubber stopper removal” on page 906 |
| 9 | 40X9281 | 1 | 1 | 2 x 500-sheet tray left cover | “2 x 500-sheet tray left cover removal” on page 912 |
| 10 | 40X9280 | 1 | 1 | 2 x 500-sheet tray rear cover | “2 x 500-sheet tray rear cover removal” on page 914 |

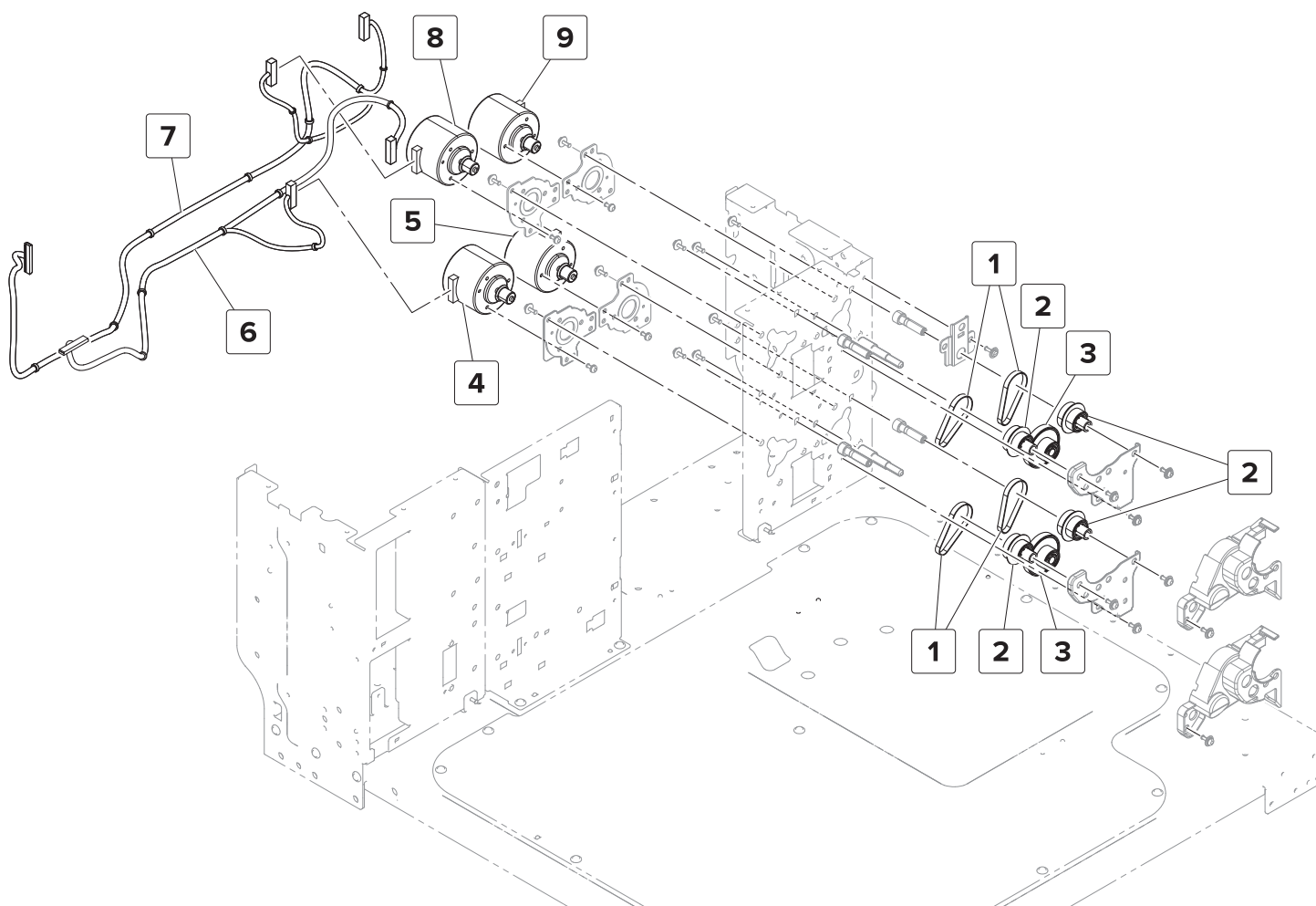
Assembly 63: 2 x 500-sheet tray—Frame



Assembly 63: 2 x 500-sheet tray—Frame

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|---|
| 1 | 40X8981 | 2 | 1 | 2 x 500-sheet tray right rail guide wheel | -- |
| 2 | 41X1955 | 2 | 1 | 2 x 500-sheet tray insert stopper | -- |
| 3 | 40X9305 | 2 | 1 | 2 x 500-sheet tray left rail guide wheel | -- |
| 4 | 40X9290 | 1 | 1 | 2 x 500-sheet tray controller board | “2 x 500-sheet tray controller board removal” on page 918 |
| 5 | 40X9783 | 1 | 1 | 2 x 500-sheet tray interface cable | -- |

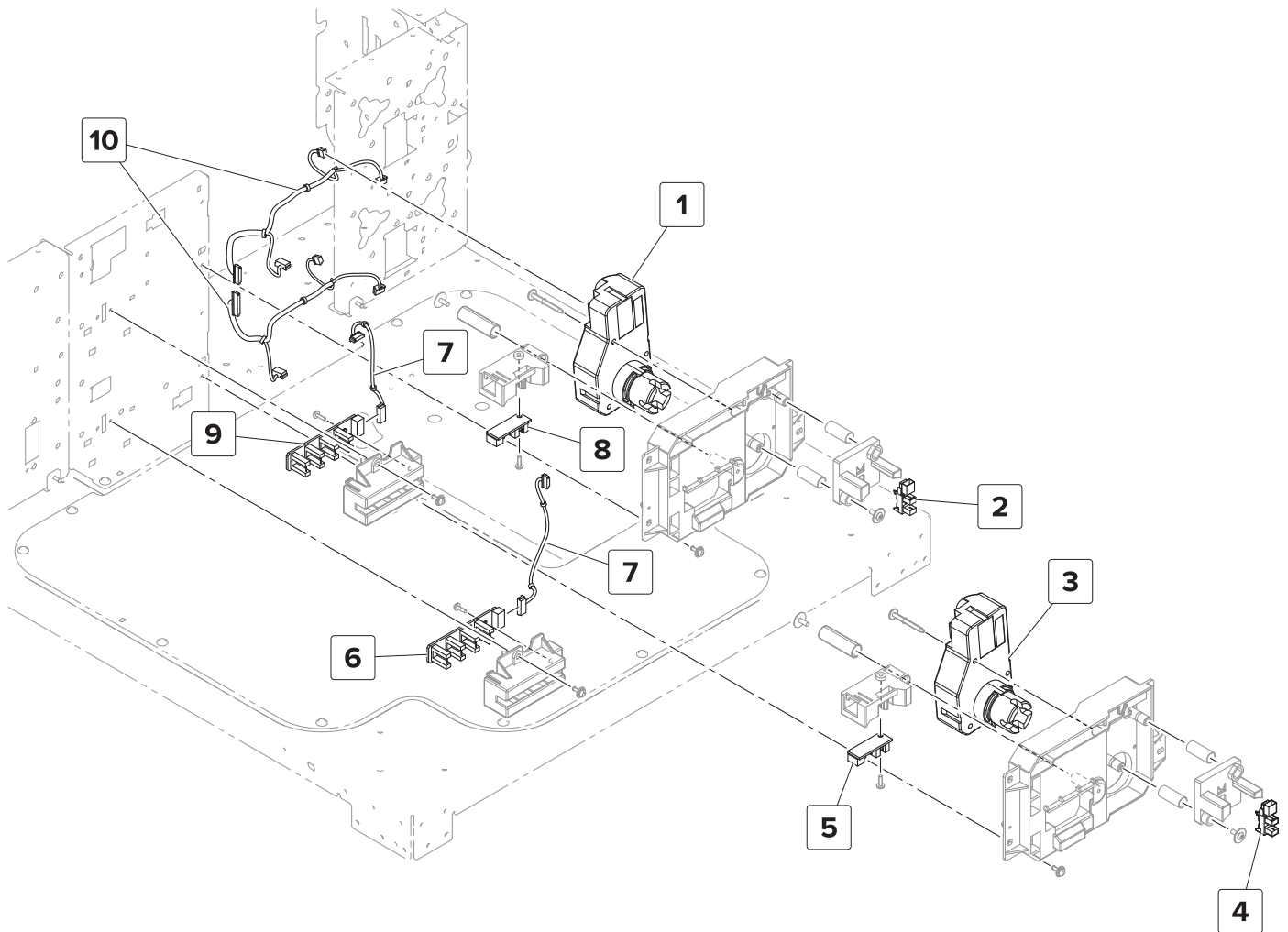
Assembly 64: 2 x 500-sheet tray—Paper feed



Assembly 64: 2 x 500-sheet tray—Paper feed

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|--|
| 1 | 40X9294 | 4 | 1 | 2 x 500-sheet tray feed and transport motor belt | “2 x 500-sheet tray 3 transport belts and gears removal” on page 926 “2 x 500-sheet tray 4 transport belts and gears removal” on page 927 |
| 2 | 40X9891 | 4 | 1 | 2 x 500-sheet tray feed and transport primary gear | “2 x 500-sheet tray 3 transport belts and gears removal” on page 926 “2 x 500-sheet tray 4 transport belts and gears removal” on page 927 |
| 3 | 40X9295 | 2 | 1 | 2 x 500-sheet tray feed and transport secondary gear | “2 x 500-sheet tray 3 transport belts and gears removal” on page 926 “2 x 500-sheet tray 4 transport belts and gears removal” on page 927 |
| 4 | 40X9293 | 1 | 1 | Motor (2 x 500-sheet tray 4 feed) | “2 x 500-sheet tray feed and transport motors removal” on page 917 |
| 5 | 40X9293 | 1 | 1 | Motor (2 x 500-sheet tray 4 transport) | “2 x 500-sheet tray feed and transport motors removal” on page 917 |
| 6 | 40X9774 | 1 | 1 | 2 x 500-sheet tray 4 feed and transport motor cable | -- |
| 7 | 40X9882 | 1 | 1 | 2 x 500-sheet tray 3 feed and transport motor cable | -- |
| 8 | 40X9293 | 1 | 1 | Motor (2 x 500-sheet tray 3 feed) | “2 x 500-sheet tray feed and transport motors removal” on page 917 |
| 9 | 40X9293 | 1 | 1 | Motor (2 x 500-sheet tray 3 transport) | “2 x 500-sheet tray feed and transport motors removal” on page 917 |

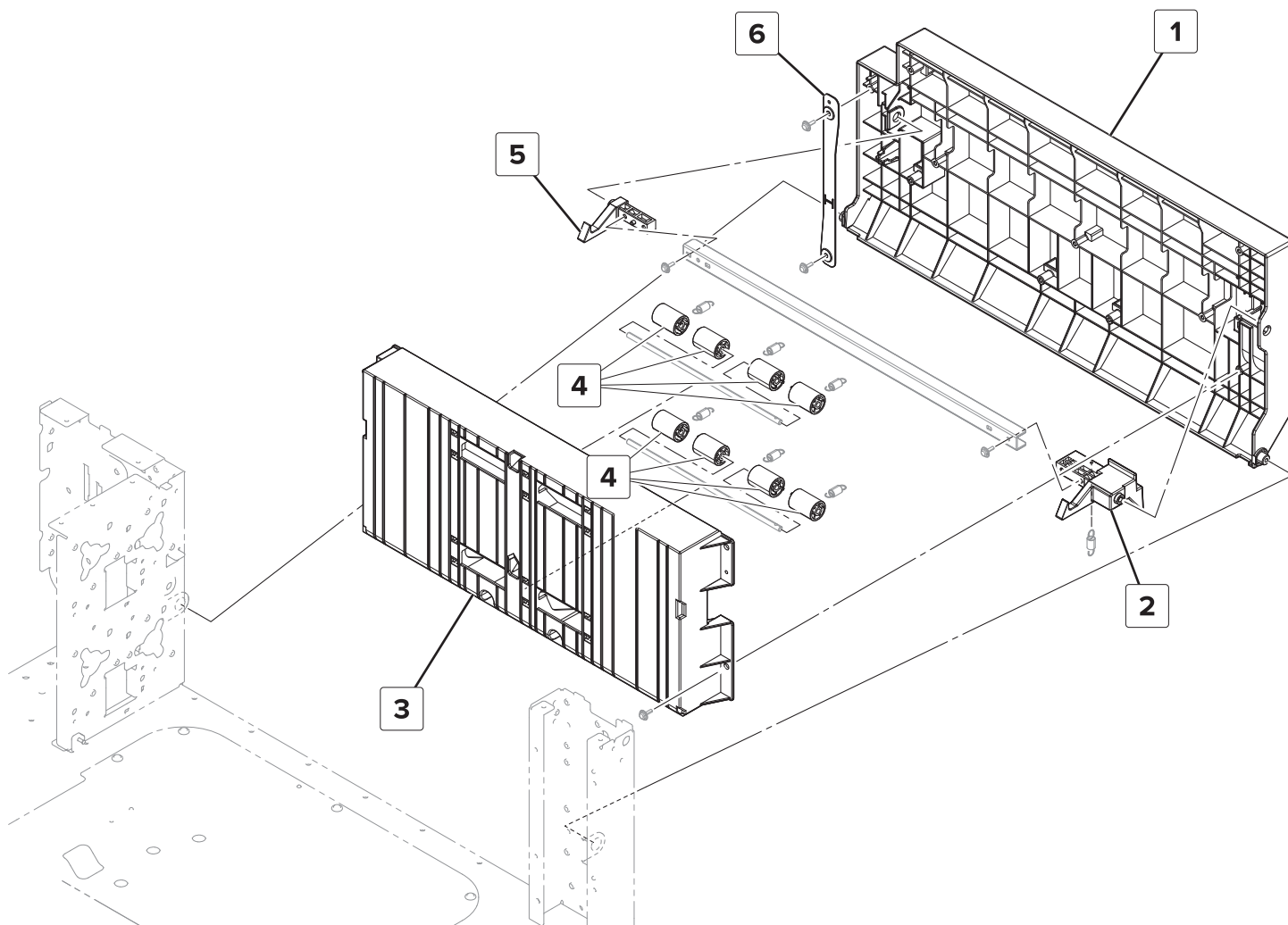
Assembly 65: 2 x 500-sheet tray—Paper size detection



Assembly 65: 2 x 500-sheet tray—Paper size detection

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|--|
| 1 | 40X8987 | 1 | 1 | Motor (2 x 500-sheet tray 3 lift) | “Motor (2 x 500-sheet tray lift) removal” on page 914 |
| 2 | 41X1391 | 1 | 1 | Sensor (2 x 500-sheet tray 3 near empty) | “Sensor (2 x 500-sheet tray near empty) removal” on page 915 |
| 3 | 40X8987 | 1 | 1 | Motor (2 x 500-sheet tray 4 lift) | “Motor (2 x 500-sheet tray lift) removal” on page 914 |
| 4 | 41X1391 | 1 | 1 | Sensor (2 x 500-sheet tray 4 near empty) | “Sensor (2 x 500-sheet tray near empty) removal” on page 915 |
| 5 | 40X8989 | 1 | 1 | Sensor (2 x 500-sheet tray 4 paper width) | “Sensor (2 x 500-sheet tray paper width) removal” on page 916 |
| 6 | 40X8985 | 1 | 1 | Sensor (2 x 500-sheet tray 4 paper length) | “Sensor (2 x 500-sheet tray paper length) removal” on page 910 |
| 7 | 40X9775 | 2 | 1 | 2 x 500 sheet tray paper length sensor cable | -- |
| 8 | 40X8989 | 1 | 1 | Sensor (2 x 500-sheet tray 3 paper width) | “Sensor (2 x 500-sheet tray paper width) removal” on page 916 |
| 9 | 40X8985 | 1 | 1 | Sensor (2 x 500-sheet tray 3 paper length) | “Sensor (2 x 500-sheet tray paper length) removal” on page 910 |
| 10 | 40X9889 | 2 | 1 | 2 x 500 sheet tray lift motor cable | -- |

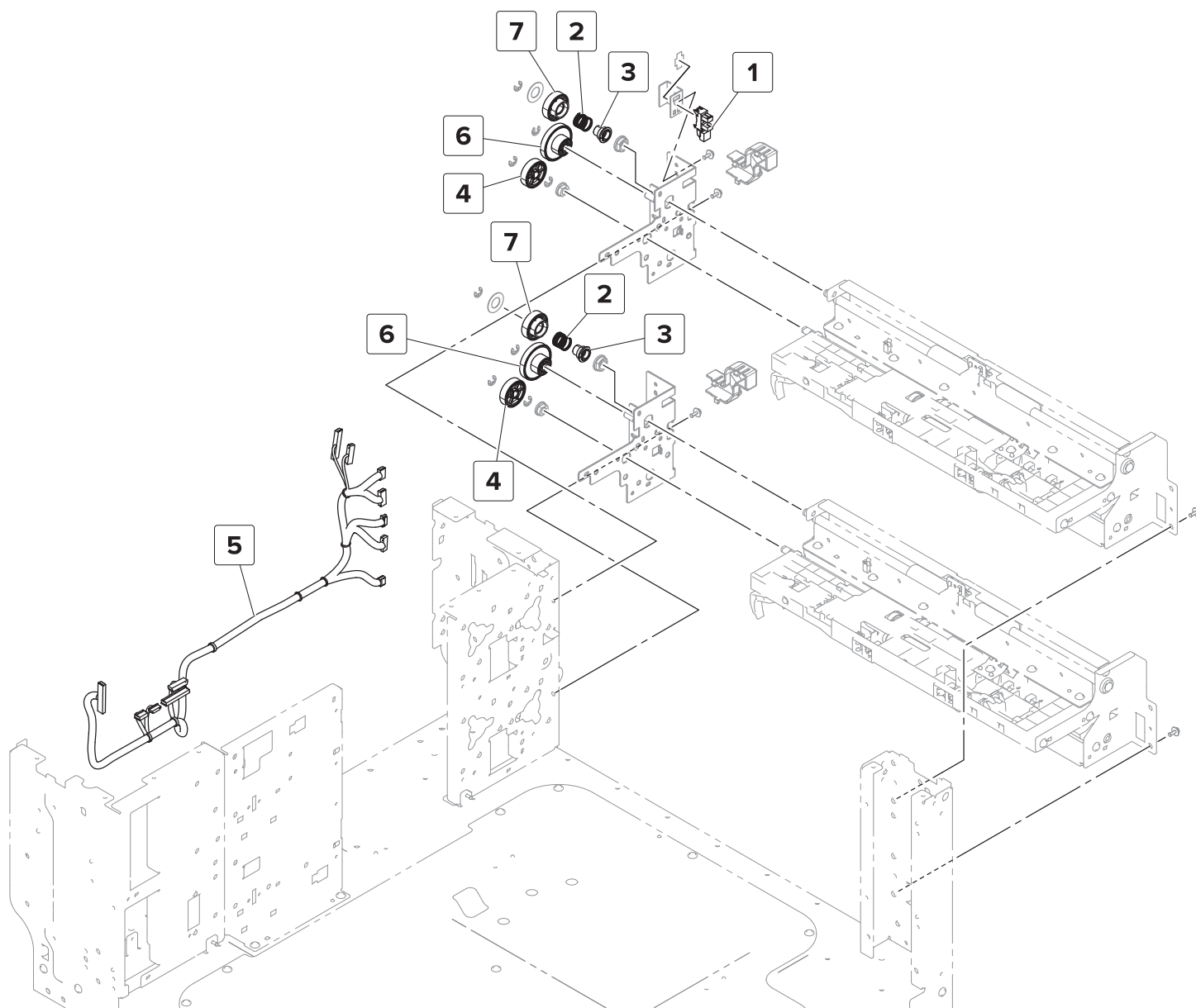
Assembly 66: 2 x 500-sheet tray—Paper transport



Assembly 66: 2 x 500-sheet tray—Paper transport

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|-------------------|
| 1 | 41X1018 | 1 | 1 | 2 x 500-sheet tray jam access door | -- |
| 2 | 41X1019 | 1 | 1 | 2 x 500-sheet tray jam access latch left | -- |
| 3 | 41X1020 | 1 | 1 | 2 x 500-sheet tray paper guide | -- |
| 4 | 40X8973 | 8 | 1 | Transport idler roller | -- |
| 5 | 41X1021 | 1 | 1 | 2 x 500-sheet tray jam access latch right | -- |
| 6 | 40X9908 | 1 | 1 | 2 x 500-sheet tray jam access door strap | -- |

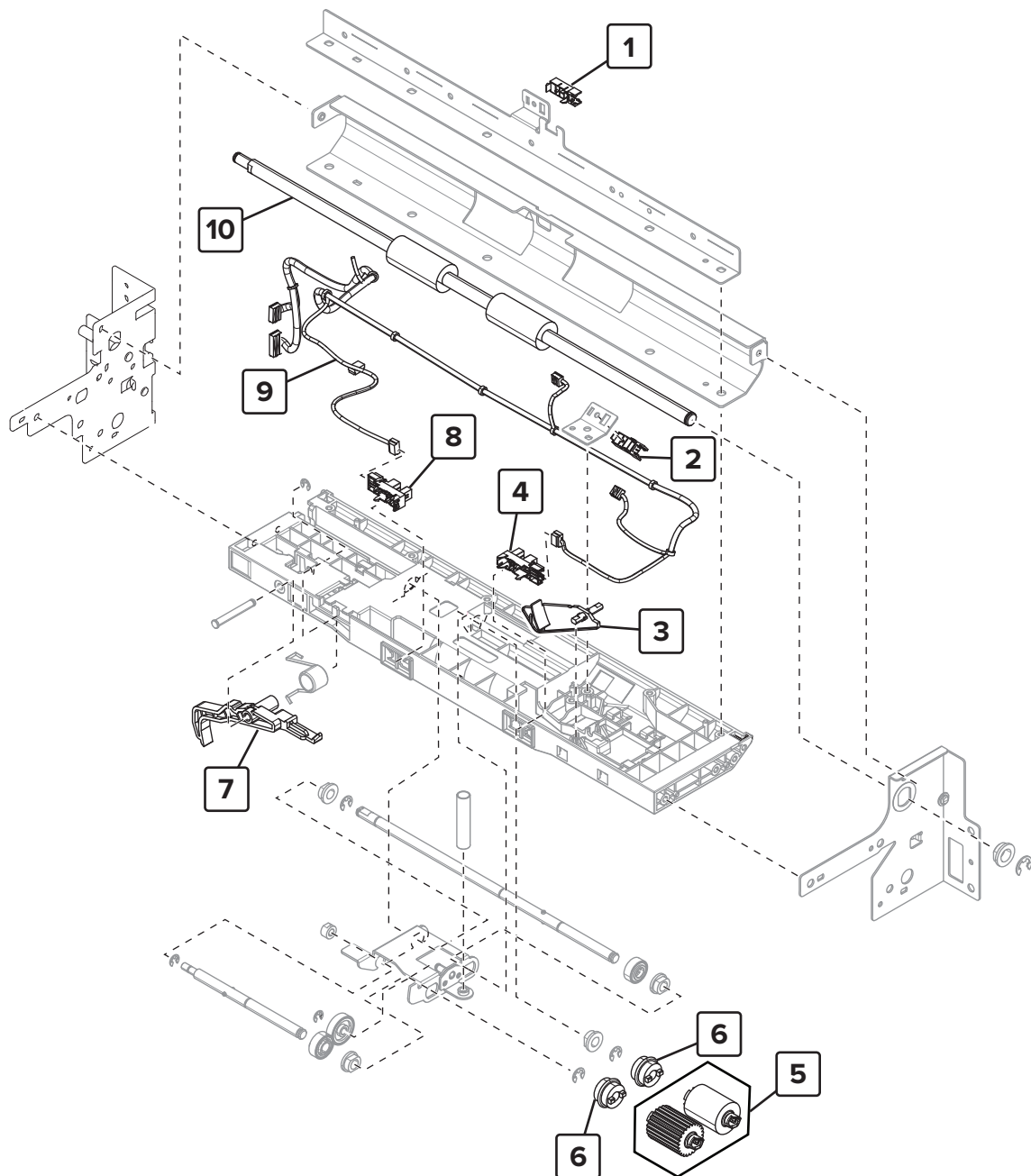
Assembly 67: 2 x 500-sheet tray—Paper pick 1



Assembly 67: 2 x 500-sheet tray—Paper pick 1

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|---|
| 1 | 41X1444 | 1 | 1 | Sensor (2 x 500-sheet tray jam access door) | “Sensor (2 x 500-sheet tray jam access door) removal” on page 904 |
| 2 | 40X9892 | 2 | 1 | 2 x 500-sheet tray transport gear spring | -- |
| 3 | 40X9893 | 2 | 1 | 2 x 500-sheet tray transport gear bushing | -- |
| 4 | 40X9894 | 2 | 1 | 2 x 500-sheet tray feed primary gear | -- |
| 5 | 40X9890 | 1 | 1 | 2 x 500-sheet tray cable harness | -- |
| 6 | 40X9295 | 2 | 1 | 2 x 500-sheet tray feed secondary gear | -- |
| 7 | 40X9298 | 2 | 1 | 2 x 500-sheet tray transport gear | -- |

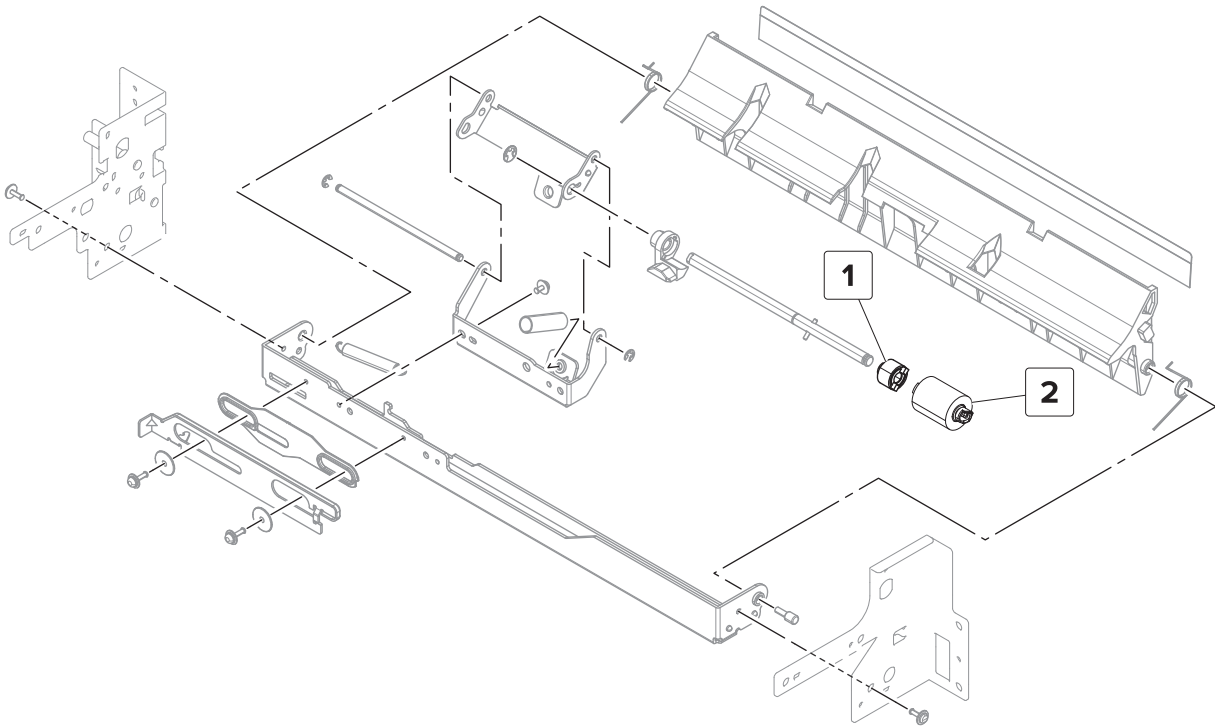
Assembly 68: 2 x 500-sheet tray—Paper pick 2



Assembly 68: 2 x 500-sheet tray—Paper pick 2

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|---|
| 1 | 40X8968 | 2 | 1 | Sensor (2 x 500-sheet tray transport) | “Sensor (2 x 500-sheet tray transport) removal” on page 925 |
| 2 | 40X8968 | 2 | 1 | Sensor (2 x 500-sheet tray feed) | “2 x 500-sheet tray transport assembly sensors removal” on page 923 |
| 3 | 40X9899 | 2 | 1 | 2 x 500-sheet tray empty sensor actuator | “2 x 500-sheet tray transport assembly sensors removal” on page 923 |
| 4 | 41X1391 | 2 | 1 | Sensor (2 x 500-sheet tray empty) | “2 x 500-sheet tray transport assembly sensors removal” on page 923 |
| 5 | 41X1600 | 2 | 1 | Feed and pick rollers Note: This contains the following rollers: <ul style="list-style-type: none"> • Pick roller • Feed roller • Separator roller | “2 x 500-sheet tray rollers removal” on page 910 |
| 6 | 40X9981 | 4 | 1 | Roller clutch | -- |
| 7 | 40X9982 | 2 | 1 | 2 x 500-sheet tray set actuator | -- |
| 8 | 41X1391 | 2 | 1 | Sensor (2 x 500-sheet tray lift plate level) | “2 x 500-sheet tray transport assembly sensors removal” on page 923 |
| 9 | 40X9316 | 1 | 1 | 2 x 500-sheet tray 3 pick assembly sensor cable | -- |
| 9 | 40X9300 | 1 | 1 | 2 x 500-sheet tray 4 pick assembly sensor cable | -- |
| 10 | 40X9299 | 2 | 1 | 2 x 500-sheet tray transport roller | -- |

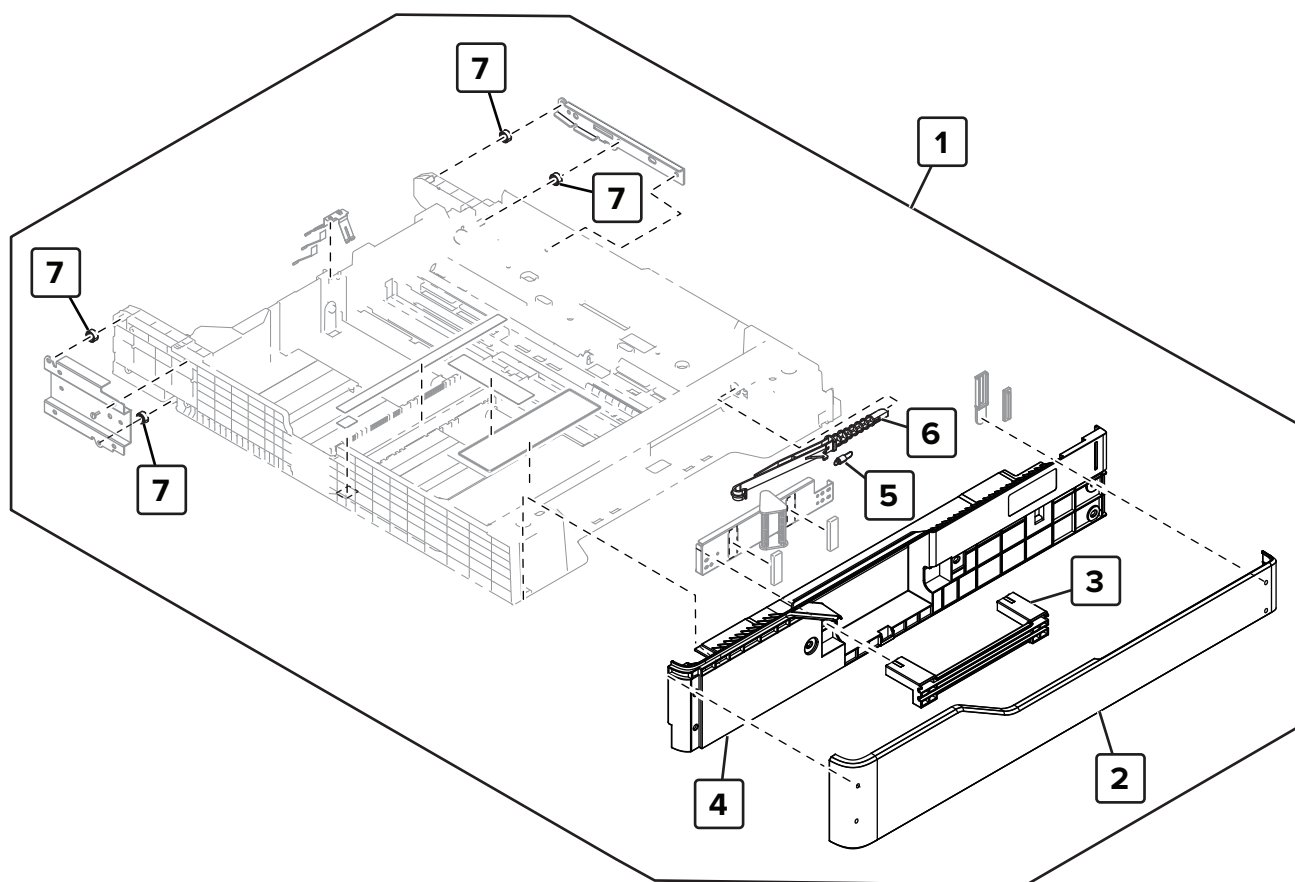
Assembly 69: 2 x 500-sheet tray—Paper pick 3



Assembly 69: 2 x 500-sheet tray—Paper pick 3

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|--|
| 1 | 40X9455 | 2 | 1 | Separator clutch | -- |
| 2 | 41X1600 | 2 | 1 | Separator roller Note: This contains the following rollers: <ul style="list-style-type: none"> • Pick roller • Feed roller • Separator roller | “2 x 500-sheet tray rollers removal” on page 910 |

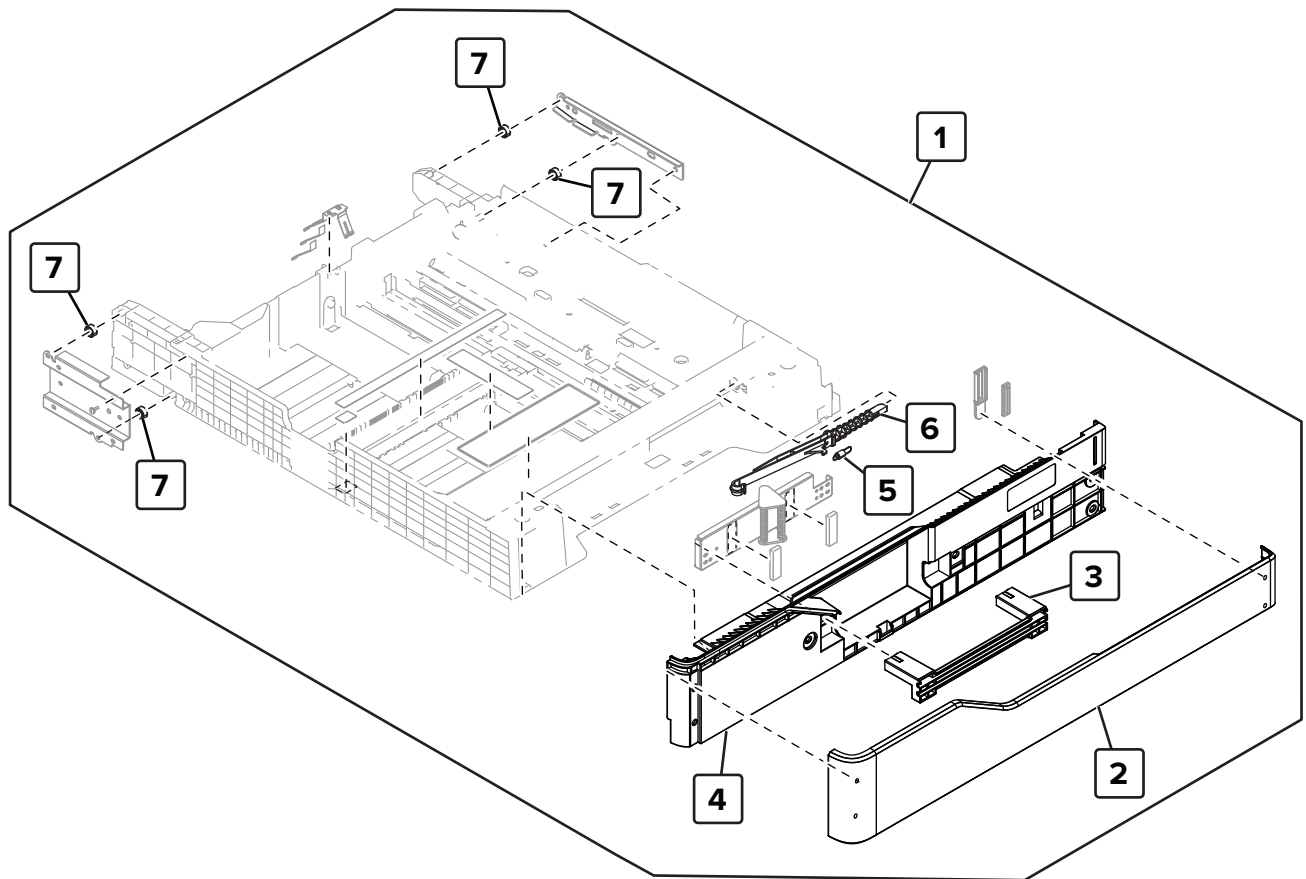
Assembly 70: 2 x 500-sheet tray—Tray 3



Assembly 70: 2 x 500-sheet tray—Tray 3

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--------------------------|---|
| 1 | 41X1957 | 1 | 1 | Tray 3 insert | -- |
| 2 | 41X1958 | 1 | 1 | Tray 3 front cover | “Tray lock removal” on page 744 |
| 3 | 41X1959 | 1 | 1 | Tray handle | -- |
| 4 | 41X1956 | 1 | 1 | Tray 3 inner front cover | -- |
| 5 | 40X9895 | 1 | 1 | Pulling coil spring | -- |
| 6 | 40X9304 | 1 | 1 | Tray lock | “Tray lock removal” on page 744 |
| 7 | 40X9305 | 4 | 1 | Tray insert guide wheel | -- |

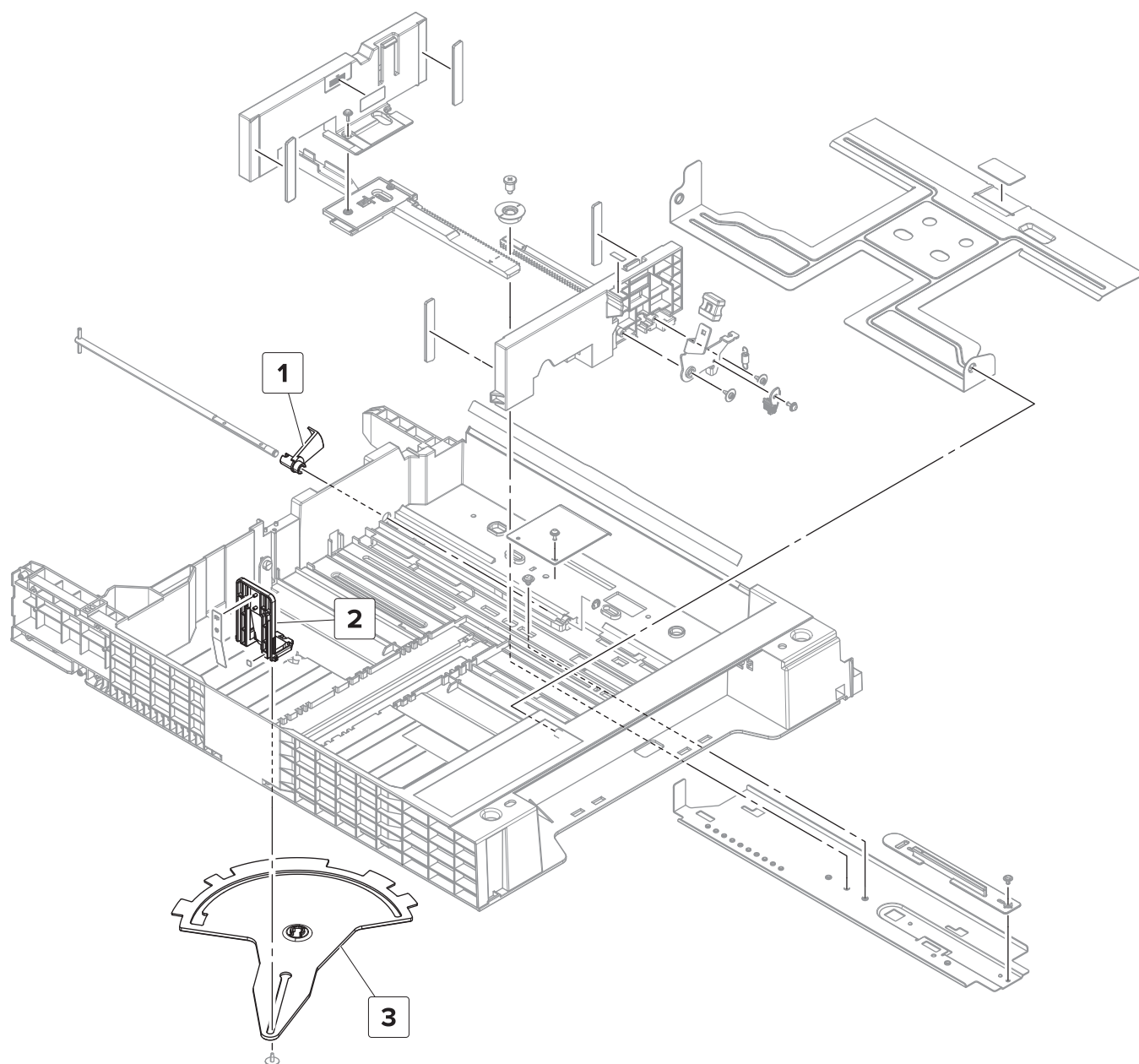
Assembly 71: 2 x 500-sheet tray—Tray 4



Assembly 71: 2 x 500-sheet tray—Tray 4

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--------------------------|---|
| 1 | 41X1961 | 1 | 1 | Tray 4 insert | -- |
| 2 | 41X1958 | 1 | 1 | Tray 4 front cover | “Tray lock removal” on page 744 |
| 3 | 41X1959 | 1 | 1 | Tray handle | -- |
| 4 | 41X1960 | 1 | 1 | Tray 4 inner front cover | -- |
| 5 | 40X9895 | 1 | 1 | Pulling coil spring | -- |
| 6 | 40X9304 | 1 | 1 | Tray lock | “Tray lock removal” on page 744 |
| 7 | 40X9305 | 4 | 1 | Tray insert guide wheel | -- |

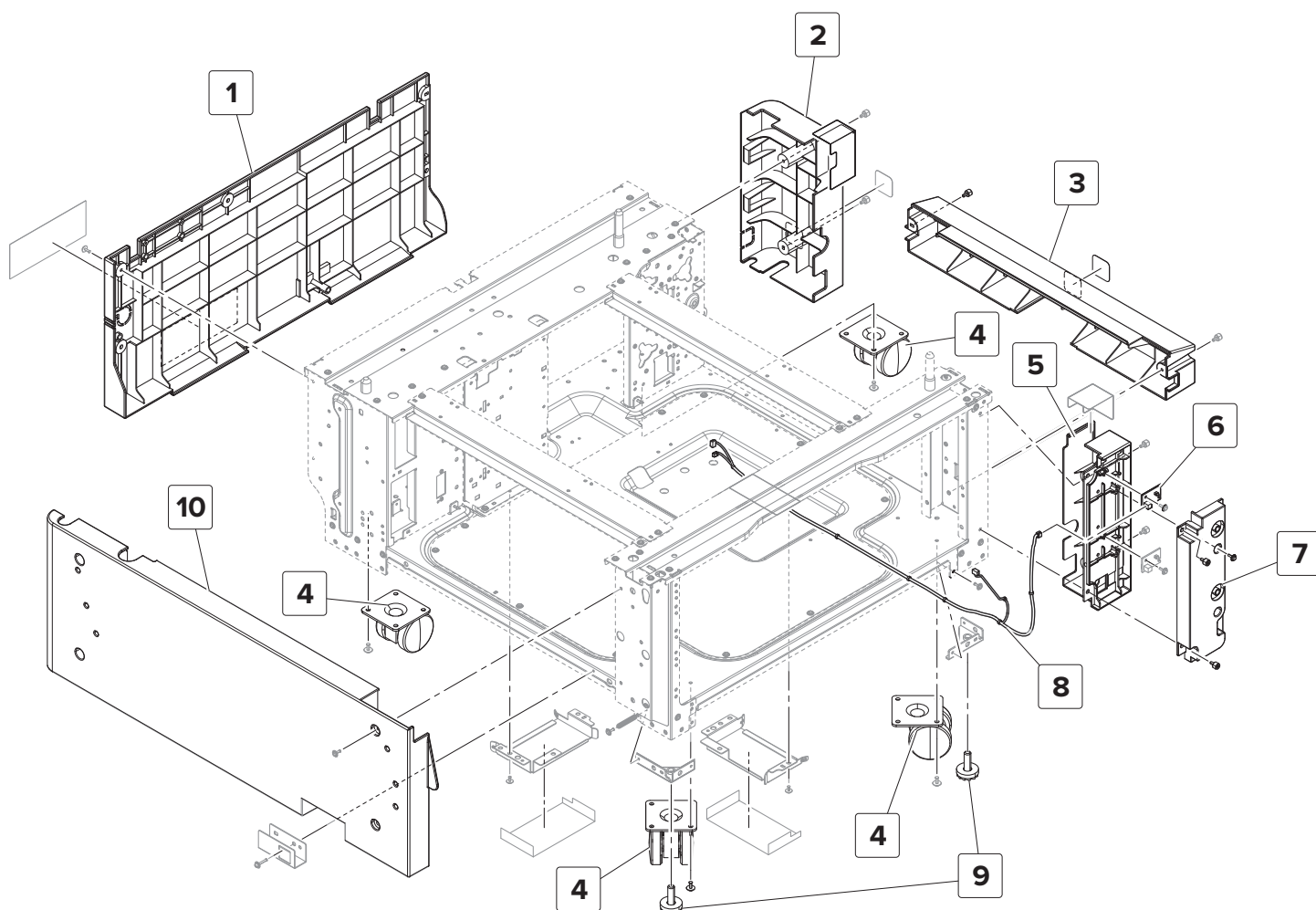
Assembly 72: 2 x 500-sheet tray—Tray 3 and tray 4 frame



Assembly 72: 2 x 500-sheet tray—Tray 3 and tray 4 frame

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|--|
| 1 | 40X9308 | 2 | 1 | 2 x 500-sheet tray near empty sensor actuator | -- |
| 2 | 41X1562 | 2 | 1 | Tray insert paper length guide | “Tray insert paper length guide removal” on page 906 |
| 3 | 40X9309 | 2 | 1 | 2 x 500-tray insert paper length sensor actuator | -- |

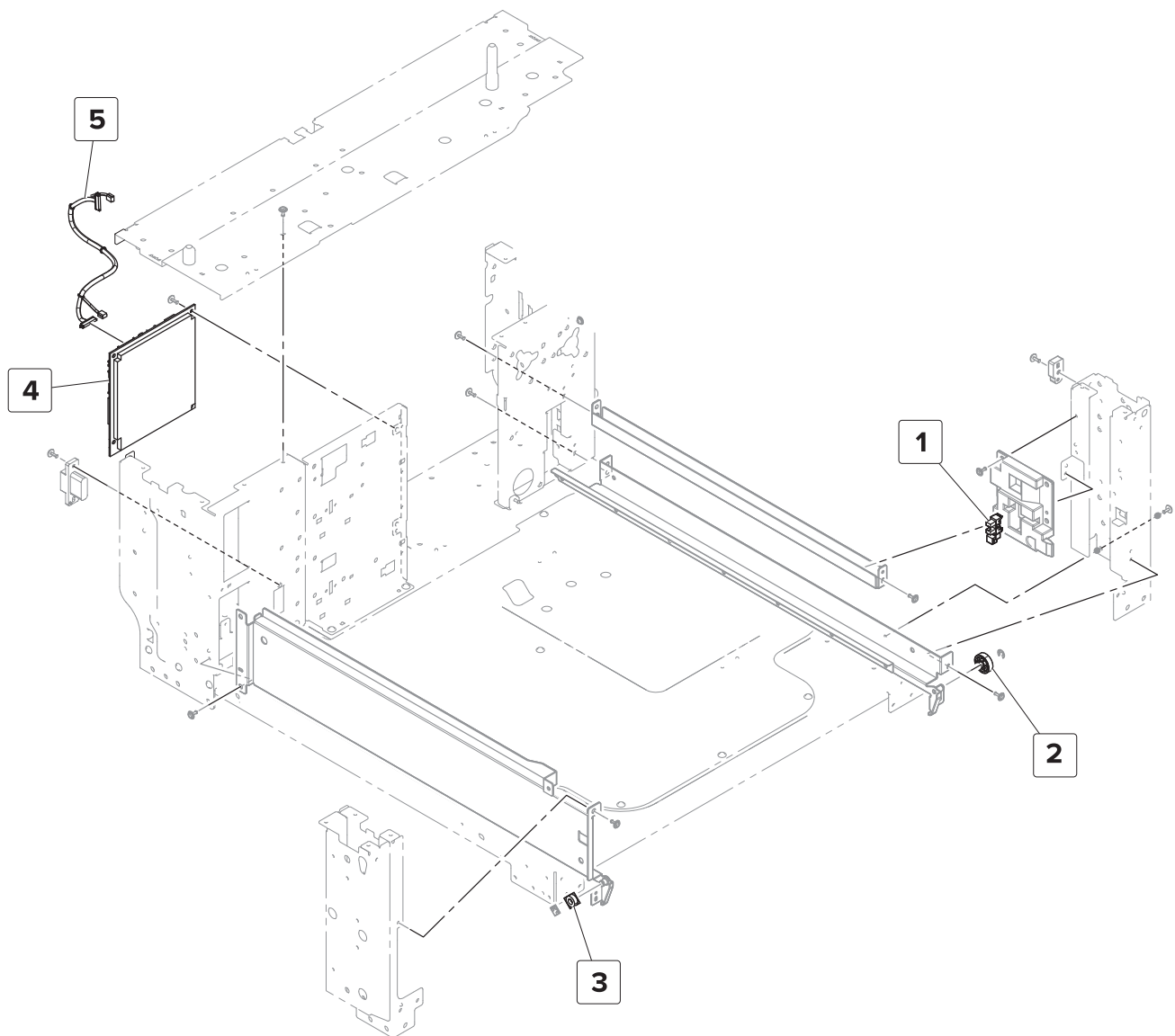
Assembly 73: 2500-sheet tray—Covers



Assembly 73: 2500-sheet tray—Covers

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|------------------------------------|---|
| 1 | 40X9280 | 1 | 1 | 2500-sheet tray rear cover | “2500-sheet tray rear cover removal” on page 873 |
| 2 | 40X9779 | 1 | 1 | 2500-sheet tray rear right cover | “2500-sheet tray rear right cover removal” on page 874 |
| 3 | 40X9285 | 1 | 1 | 2500-sheet tray bottom right cover | “2500-sheet tray lower right cover removal” on page 874 |
| 4 | 40X9282 | 4 | 1 | Caster wheel | “2500-sheet tray caster wheel removal” on page 902 |
| 5 | 41X1963 | 1 | 1 | 2500-sheet tray LED mount | -- |
| 6 | 40X8903 | 1 | 1 | Tray empty LED | “2500-sheet tray empty LED removal” on page 875 |
| 7 | 41X1962 | 1 | 1 | 2500-sheet tray LED cover | “2500-sheet tray LED cover removal” on page 875 |
| 8 | 40X9782 | 1 | 1 | Tray empty LED cable | -- |
| 9 | 40X9283 | 2 | 1 | Tray stopper | “2500-sheet tray stopper removal” on page 902 |
| 10 | 40X9281 | 1 | 1 | 2500-sheet tray left cover | “2500-sheet tray left cover removal” on page 876 |

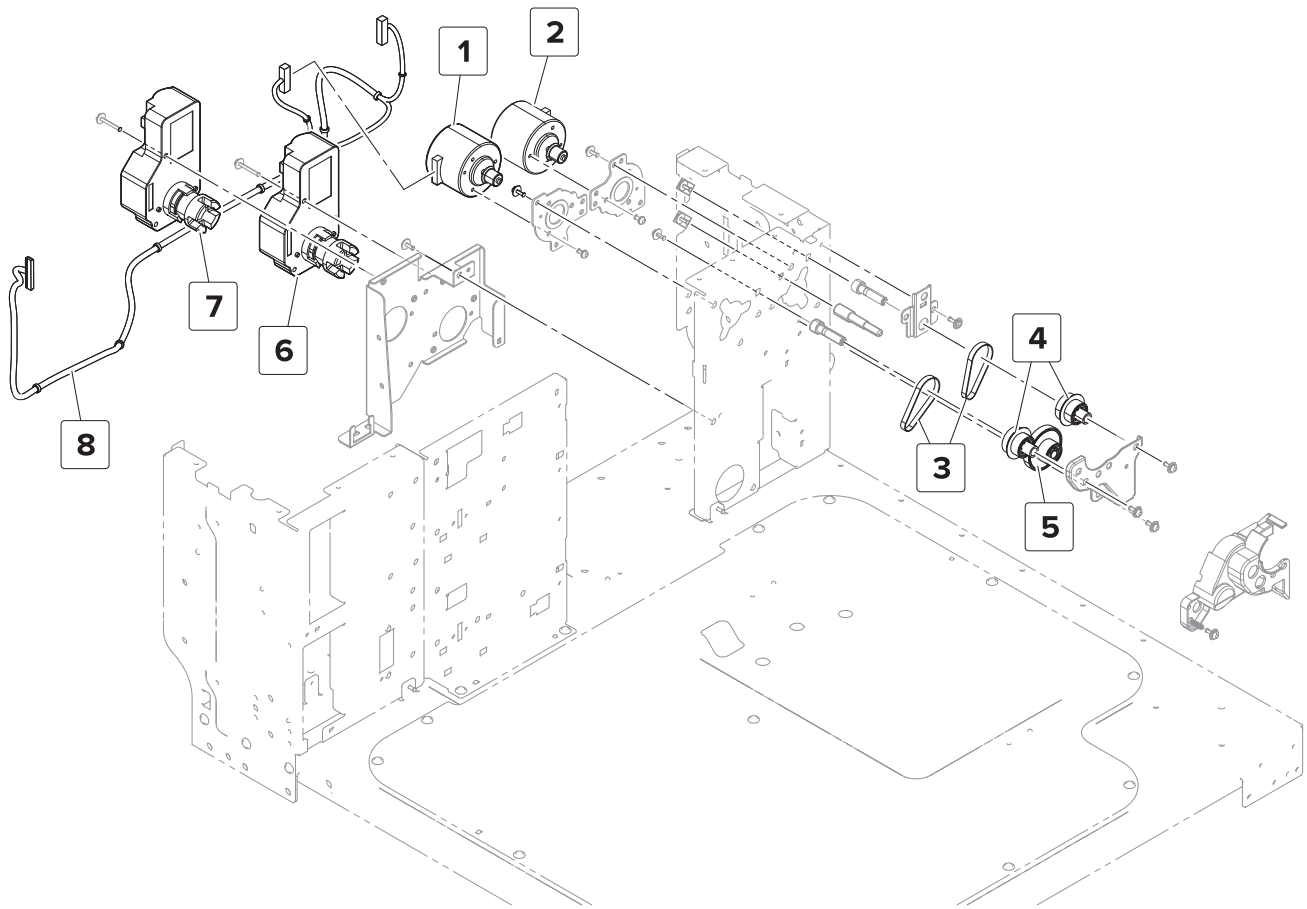
Assembly 74: 2500-sheet tray—Frame



Assembly 74: 2500-sheet tray—Frame

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|----------------------------------|--|
| 1 | 41X1391 | 1 | 1 | Sensor (2500-sheet tray set) | “Sensor (2500-sheet tray set) removal” on page 895 |
| 2 | 40X8981 | 1 | 1 | Tray rail guide wheel | -- |
| 3 | 40X9784 | 1 | 1 | Tray insert guide wheel | -- |
| 4 | 40X9785 | 1 | 1 | 2500-sheet tray controller board | “2500-sheet tray controller board removal” on page 878 |
| 5 | 40X9783 | 1 | 1 | 2500-sheet tray interface cable | -- |

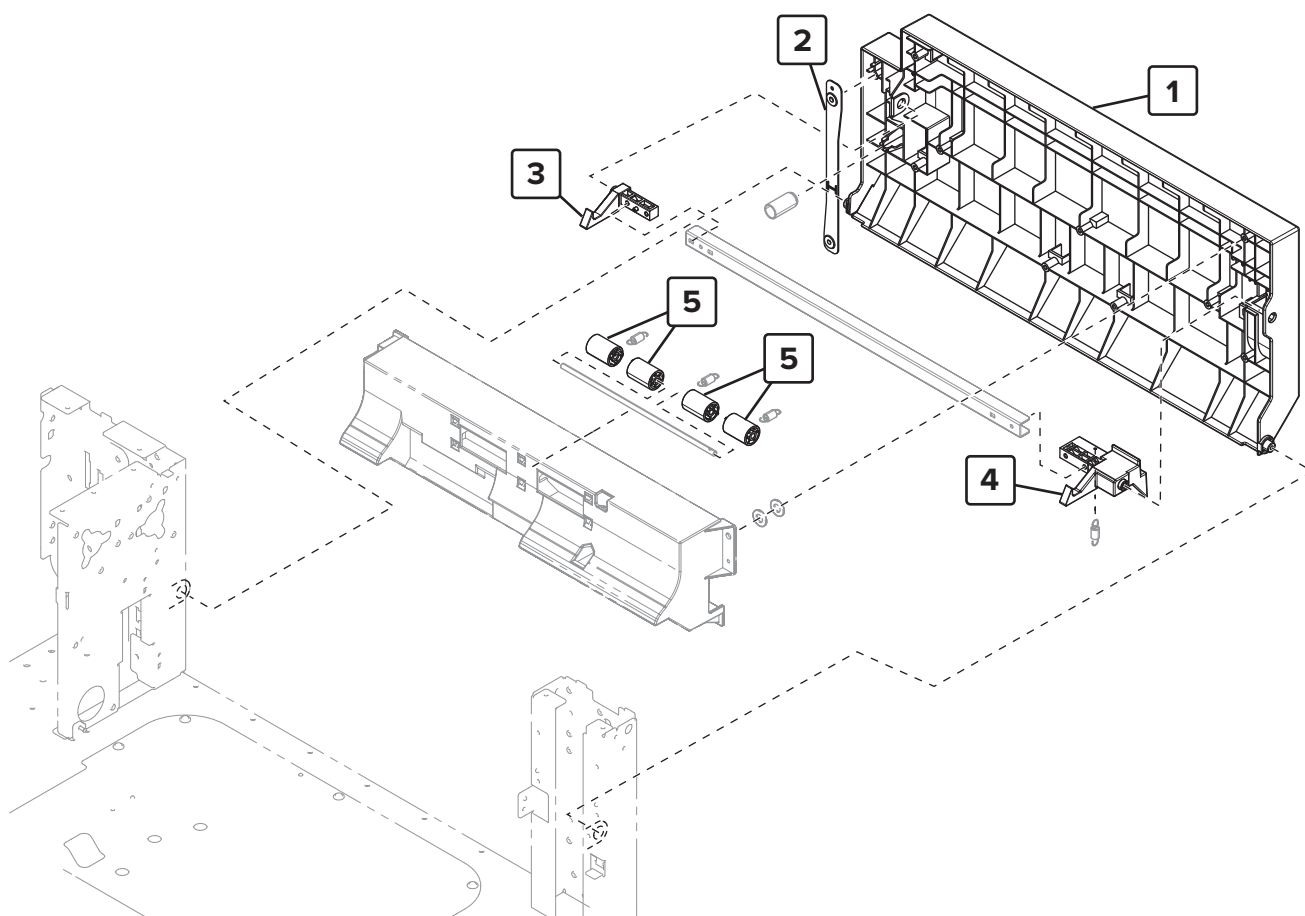
Assembly 75: 2500-sheet tray—Paper feed



Assembly 75: 2500-sheet tray—Paper feed

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|--|
| 1 | 40X9293 | 1 | 1 | Motor (2500-sheet tray feed) | “Motor (2500-sheet tray feed) removal” on page 896 |
| 2 | 40X9293 | 1 | 1 | Motor (2500-sheet tray transport) | “Motor (2500-sheet tray transport) removal” on page 897 |
| 3 | 40X9294 | 2 | 1 | 2500-sheet tray feed and transport motor belt | -- |
| 4 | 40X9891 | 2 | 1 | 2500-sheet tray feed and transport primary gear | -- |
| 5 | 40X9295 | 1 | 1 | 2500-sheet tray feed and transport secondary gear | -- |
| 6 | 40X9896 | 1 | 1 | Motor (2500-sheet tray elevator) | “Motor (2500-sheet tray elevator) removal” on page 895 |
| 7 | 40X9896 | 1 | 1 | Motor (2500-sheet tray transfer guide) | “Motor (2500-sheet tray transfer guide) removal” on page 897 |
| 8 | 40X9882 | 1 | 1 | 2500-sheet tray feed and transport motor cable | -- |

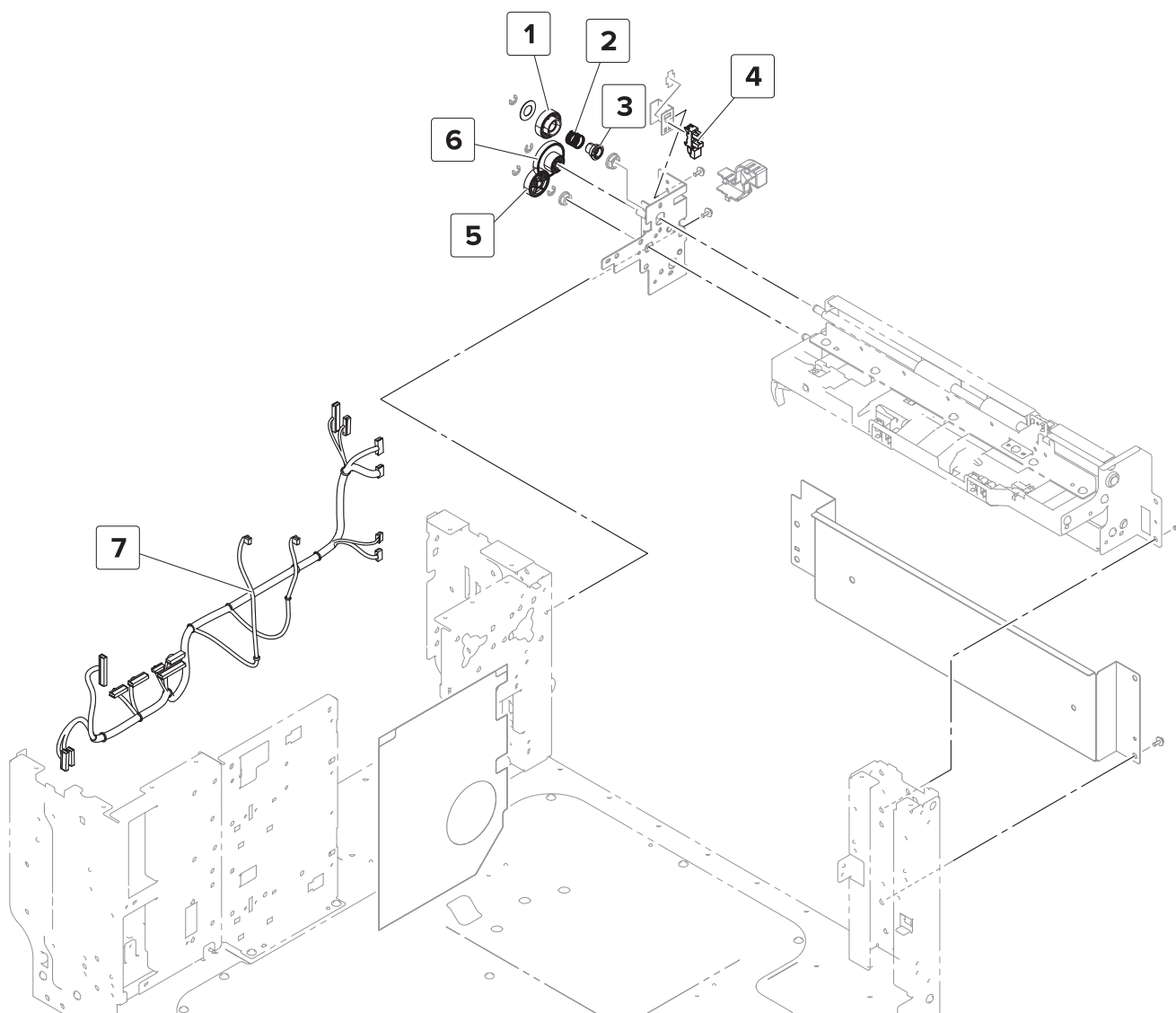
Assembly 76: 2500-sheet tray—Paper transport



Assembly 76: 2500-sheet tray—Paper transport

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---------------------------------------|---|
| 1 | 41X1018 | 1 | 1 | 2500-sheet tray door | -- |
| 2 | 40X9908 | 1 | 1 | 2500-sheet tray jam access door strap | “2500-sheet tray jam access door strap removal” on page 878 |
| 3 | 41X1021 | 1 | 1 | 2500-sheet tray door latch right | -- |
| 4 | 41X1019 | 1 | 1 | 2500-sheet tray door latch left | -- |
| 5 | 40X8973 | 4 | 1 | Transport idler roller | -- |
| NS | 41X2534 | 1 | 1 | 2500-sheet tray jam door paper guide | -- |

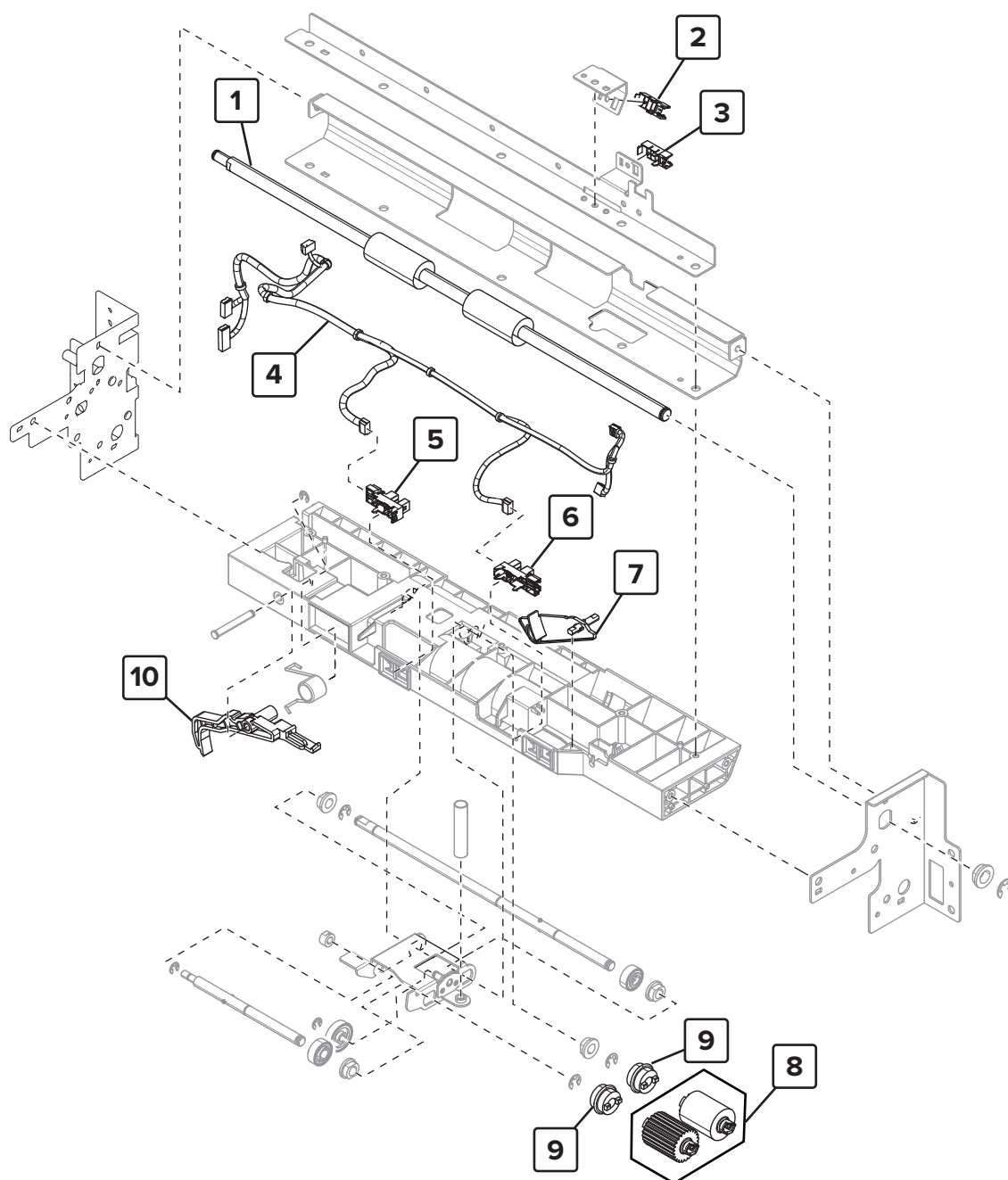
Assembly 77: 2500-sheet tray—Paper pick 1



Assembly 77: 2500-sheet tray—Paper pick 1

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|--|
| 1 | 40X9298 | 1 | 1 | 2500-sheet tray transport gear | -- |
| 2 | 40X9892 | 1 | 1 | 2500-sheet tray transport gear spring | -- |
| 3 | 40X9893 | 1 | 1 | 2500-sheet tray transport gear bushing | -- |
| 4 | 41X1444 | 1 | 1 | Sensor (2500-sheet tray jam access door) | “Sensor (2500-sheet tray jam access door) removal” on page 894 |
| 5 | 40X9894 | 1 | 1 | 2500-sheet tray feed primary gear | -- |
| 6 | 40X9295 | 1 | 1 | 2500-sheet tray feed secondary gear | -- |
| 7 | 40X9786 | 1 | 1 | 2500-sheet tray cable harness | -- |

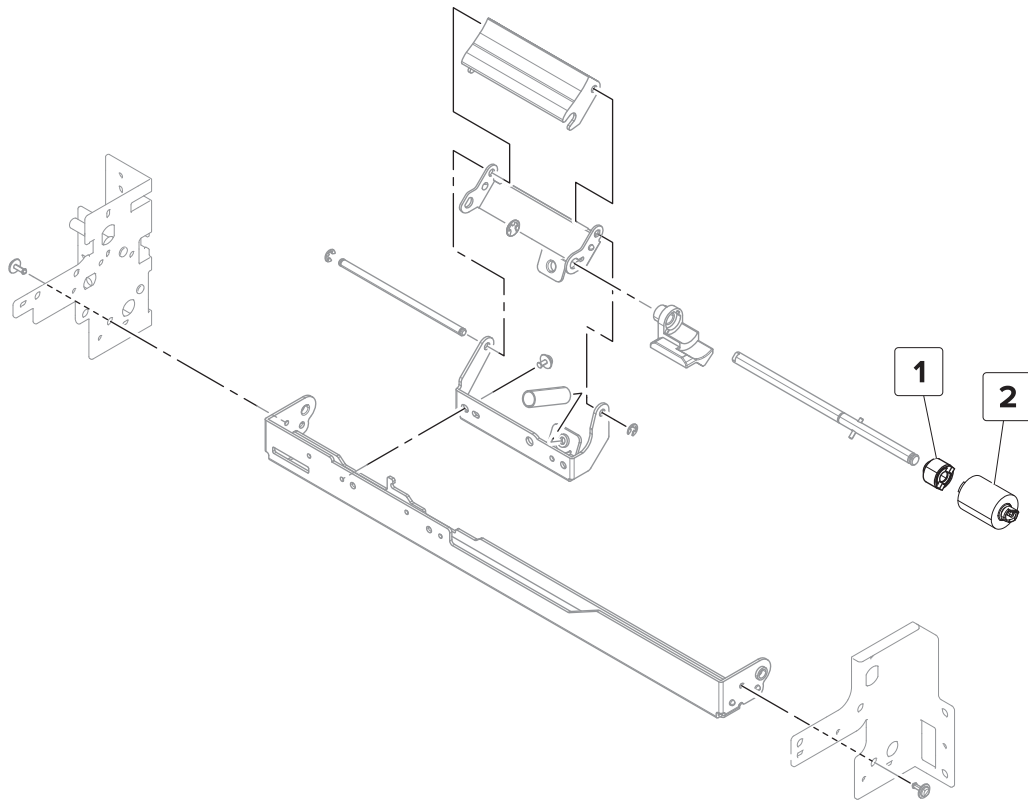
Assembly 78: 2500-sheet tray—Paper pick 2



Assembly 78: 2500-sheet tray—Paper pick 2

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|---|
| 1 | 40X9299 | 1 | 1 | 2500-sheet tray transport roller | “2500-sheet tray transport roller removal” on page 899 |
| 2 | 40X8968 | 1 | 1 | Sensor (2500-sheet tray feed) | “Sensor (2500-sheet tray feed) removal” on page 892 |
| 3 | 40X8968 | 1 | 1 | Sensor (2500-sheet tray transport) | “Sensor (2500-sheet tray transport) removal” on page 893 |
| 4 | 40X9787 | 1 | 1 | 2500-sheet tray pick assembly sensor cable | -- |
| 5 | 41X1391 | 1 | 1 | Sensor (2500-sheet tray main tray elevator limit) | “Sensor (2500-sheet tray main tray elevator limit) removal” on page 891 |
| 6 | 41X1391 | 1 | 1 | Sensor (2500-sheet tray main tray empty, top) | “Sensor (2500-sheet tray main tray empty, top) removal” on page 891 |
| 7 | 40X9899 | 1 | 1 | 2500-sheet tray main tray top empty actuator | -- |
| 8 | 41X1600 | 2 | 1 | Feed and pick rollers Note: This contains the following rollers: <ul style="list-style-type: none"> • Pick roller • Feed roller • Separator roller | -- |
| 9 | 40X9981 | 2 | 1 | Roller clutch | -- |
| 10 | 40X9982 | 1 | 1 | 2500-sheet tray tray set actuator | -- |

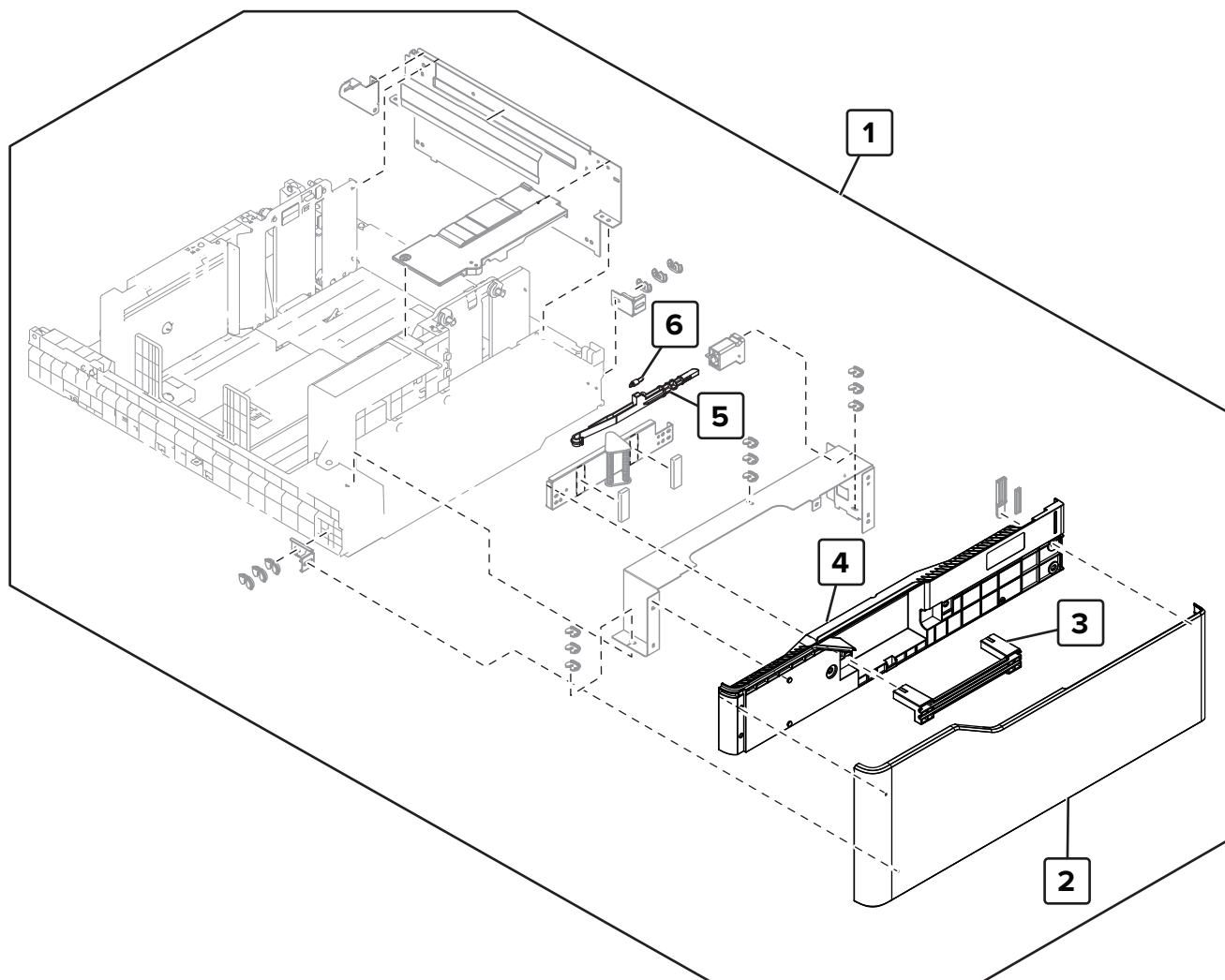
Assembly 79: 2500-sheet tray—Paper pick 3



Assembly 79: 2500-sheet tray—Paper pick 3

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|-------------------|
| 1 | 40X9455 | 1 | 1 | Separator clutch | -- |
| 2 | 41X1600 | 1 | 1 | Separator roller Note: This contains the following rollers: <ul style="list-style-type: none"> • Pick roller • Feed roller • Separator roller | -- |

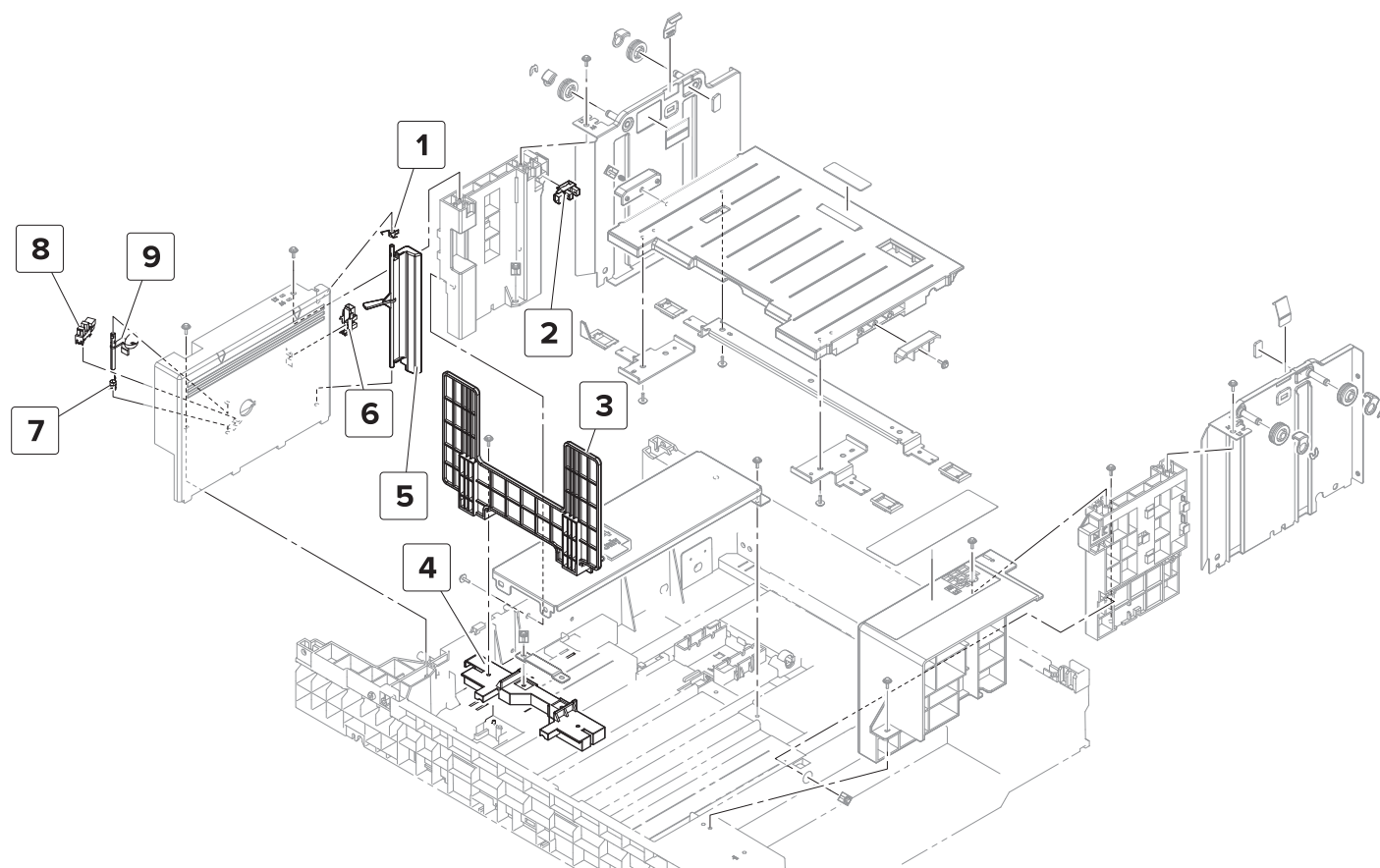
Assembly 80: 2500-sheet tray—Tray insert 1



Assembly 80: 2500-sheet tray—Tray insert 1

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|-----------------------------------|-------------------|
| 1 | 41X1967 | 1 | 1 | 2500-sheet tray insert, A4 | -- |
| 1 | 41X1966 | 1 | 1 | 2500-sheet tray insert, Letter | -- |
| 2 | 41X1964 | 1 | 1 | 2500-sheet tray front cover | -- |
| 3 | 41X1959 | 1 | 1 | 2500-sheet tray handle | -- |
| 4 | 41X1965 | 1 | 1 | 2500-sheet tray inner front cover | -- |
| 5 | 40X9788 | 1 | 1 | 2500-sheet tray lock lever | -- |
| 6 | 40X9895 | 1 | 1 | Pulling coil spring | -- |

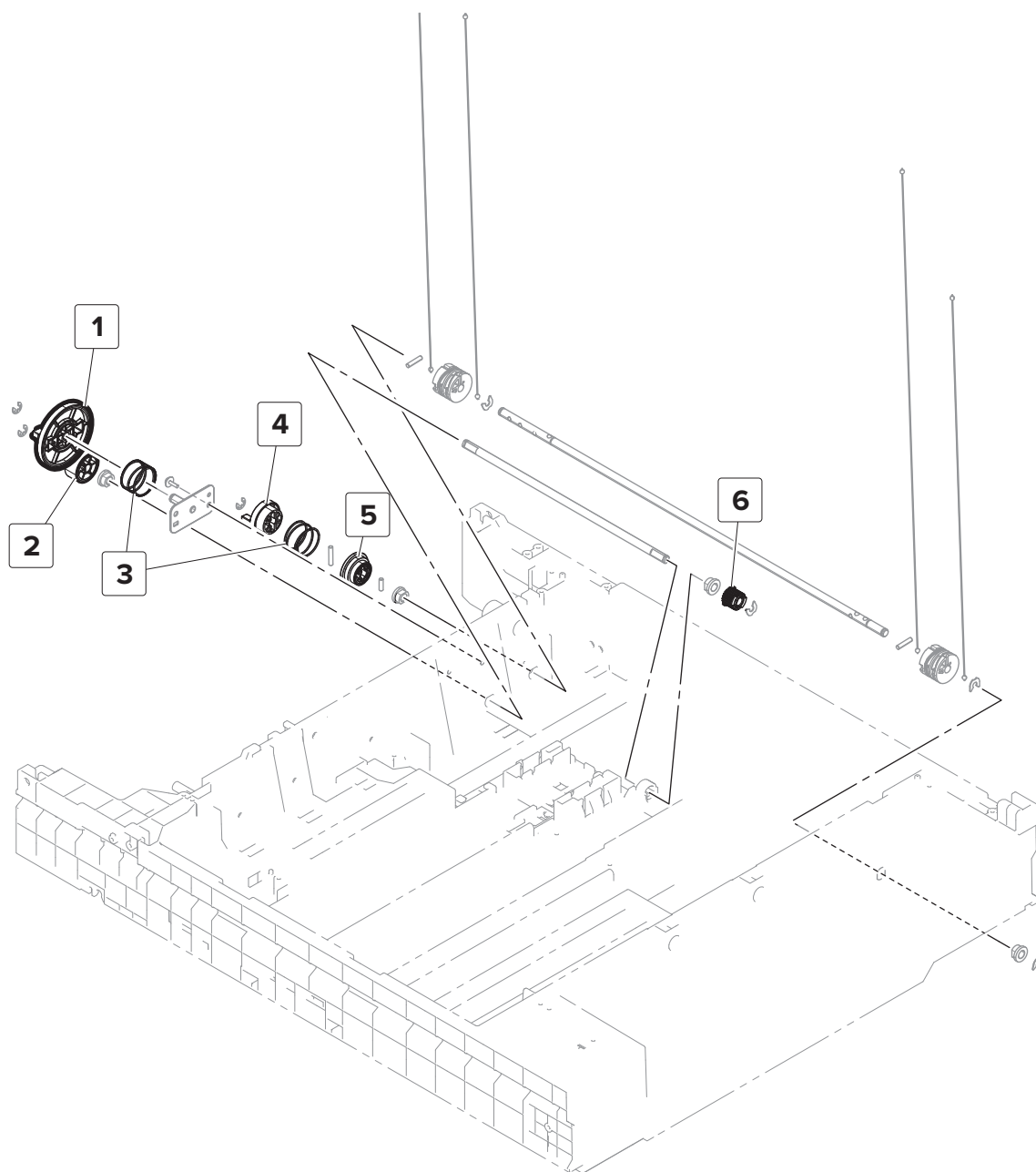
Assembly 81: 2500-sheet tray—Tray insert 2



Assembly 81: 2500-sheet tray—Tray insert 2

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|---|
| 1 | 40X9794 | 1 | 1 | Paper stack transfer sensor actuator spring | -- |
| 2 | 41X1391 | 1 | 1 | Sensor (main tray near empty) | “Sensor (2500-sheet tray main tray near empty) removal” on page 890 |
| 3 | 40X9792 | 1 | 1 | Paper stack transfer guide | “2500-sheet tray paper stack transfer guide removal” on page 884 |
| 4 | 40X9791 | 1 | 1 | Paper stack transfer guide base | “2500-sheet tray paper stack transfer guide removal” on page 884 |
| 5 | 40X9263 | 1 | 1 | Paper stack transfer sensor actuator | -- |
| 6 | 41X1391 | 1 | 1 | Sensor (paper stack transfer) | “Sensor (2500-sheet paper stack transfer) removal” on page 888 |
| 7 | 40X9883 | 1 | 1 | Reserve tray paper limit sensor actuator spring | -- |
| 8 | 41X1391 | 1 | 1 | Sensor (reserve tray paper limit) | “Sensor (2500-sheet tray reserve tray paper limit) removal” on page 889 |
| 9 | 40X9900 | 1 | 1 | Reserve tray paper limit sensor actuator | “2500-sheet reserve tray paper limit sensor actuator removal” on page 889 |

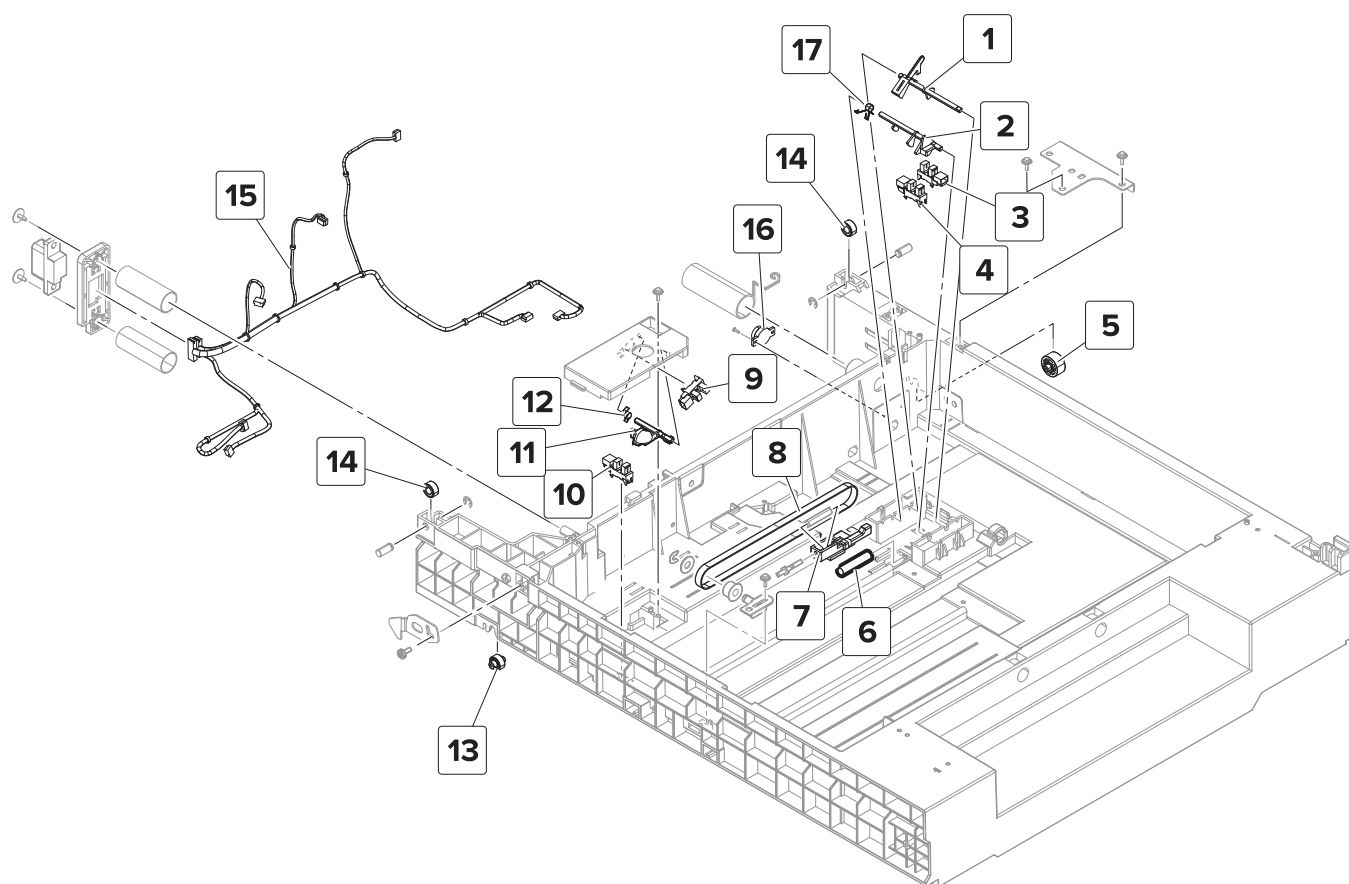
Assembly 82: 2500-sheet tray—Tray insert 3



Assembly 82: 2500-sheet tray—Tray insert 3

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|------------------------------------|-------------------|
| 1 | 40X9796 | 1 | 1 | Transfer guide primary gear | -- |
| 2 | 40X9798 | 1 | 1 | Main tray elevator coupling | -- |
| 3 | 40X9901 | 2 | 1 | Main tray elevator gear spring | -- |
| 4 | 40X9902 | 1 | 1 | Main tray elevator gear | -- |
| 5 | 40X9797 | 1 | 1 | Transfer guide primary gear spring | -- |
| 6 | 40X9795 | 1 | 1 | Transfer guide secondary gear | -- |

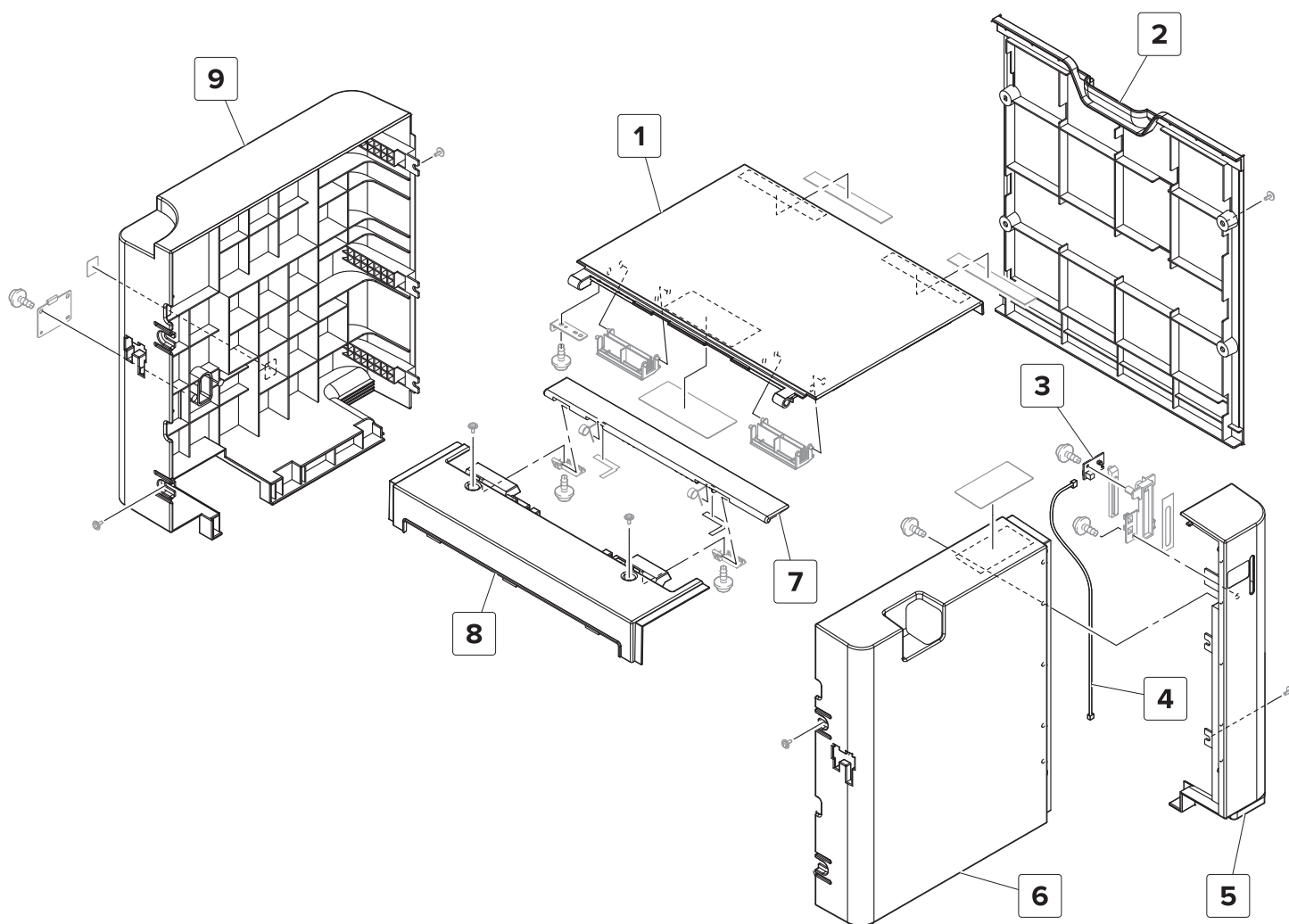
Assembly 83: 2500-sheet tray—Tray insert 4



Assembly 83: 2500-sheet tray—Tray insert 4

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|--|
| 1 | 40X9802 | 1 | 1 | 2500-sheet tray main tray empty sensor bottom actuator | “2500-sheet tray main tray empty sensor bottom actuator removal” on page 880 |
| 2 | 40X9801 | 1 | 1 | 2500-sheet tray elevator home sensor actuator | “2500-sheet tray elevator home sensor actuator removal” on page 881 |
| 3 | 41X1391 | 1 | 1 | Sensor (main tray empty, bottom) | “Sensor (2500-sheet tray main tray empty, bottom) removal” on page 883 |
| 4 | 41X1391 | 1 | 1 | Sensor (2500-sheet tray elevator home) | “Sensor (2500-sheet tray elevator home) removal” on page 882 |
| 5 | 40X9799 | 1 | 1 | Tray insert bottom right guide wheel | -- |
| 6 | 40X9804 | 1 | 1 | 2500-sheet tray transfer guide stop spring | -- |
| 7 | 40X9803 | 1 | 1 | 2500-sheet tray transfer guide stop | “2500-sheet tray transfer guide stop removal” on page 882 |
| 8 | 40X9808 | 1 | 1 | Transfer guide belt | -- |
| 9 | 41X1391 | 1 | 1 | Sensor (reserve tray empty) | “Sensor (2500-sheet tray reserve tray empty) removal” on page 887 |
| 10 | 41X1391 | 1 | 1 | Sensor (2500-sheet tray transfer guide home) | “Sensor (2500-sheet tray transfer guide home) removal” on page 886 |
| 11 | 40X9900 | 1 | 1 | Reserve tray empty sensor actuator | “2500-sheet reserve tray empty sensor actuator removal” on page 885 |
| 12 | 40X9883 | 1 | 1 | Reserve tray empty sensor actuator spring | “2500-sheet reserve tray empty sensor actuator removal” on page 885 |
| 13 | 40X9805 | 1 | 1 | Tray insert bottom left guide wheel | -- |
| 14 | 40X9305 | 2 | 1 | Tray insert guide wheel | -- |
| 15 | 40X9809 | 1 | 1 | 2500-sheet tray tray insert sensor cable | -- |
| 16 | 40X9806 | 1 | 1 | 2500-sheet tray elevator damper | -- |
| 17 | 40X9800 | 1 | 1 | 2500-sheet tray elevator home sensor actuator spring | -- |

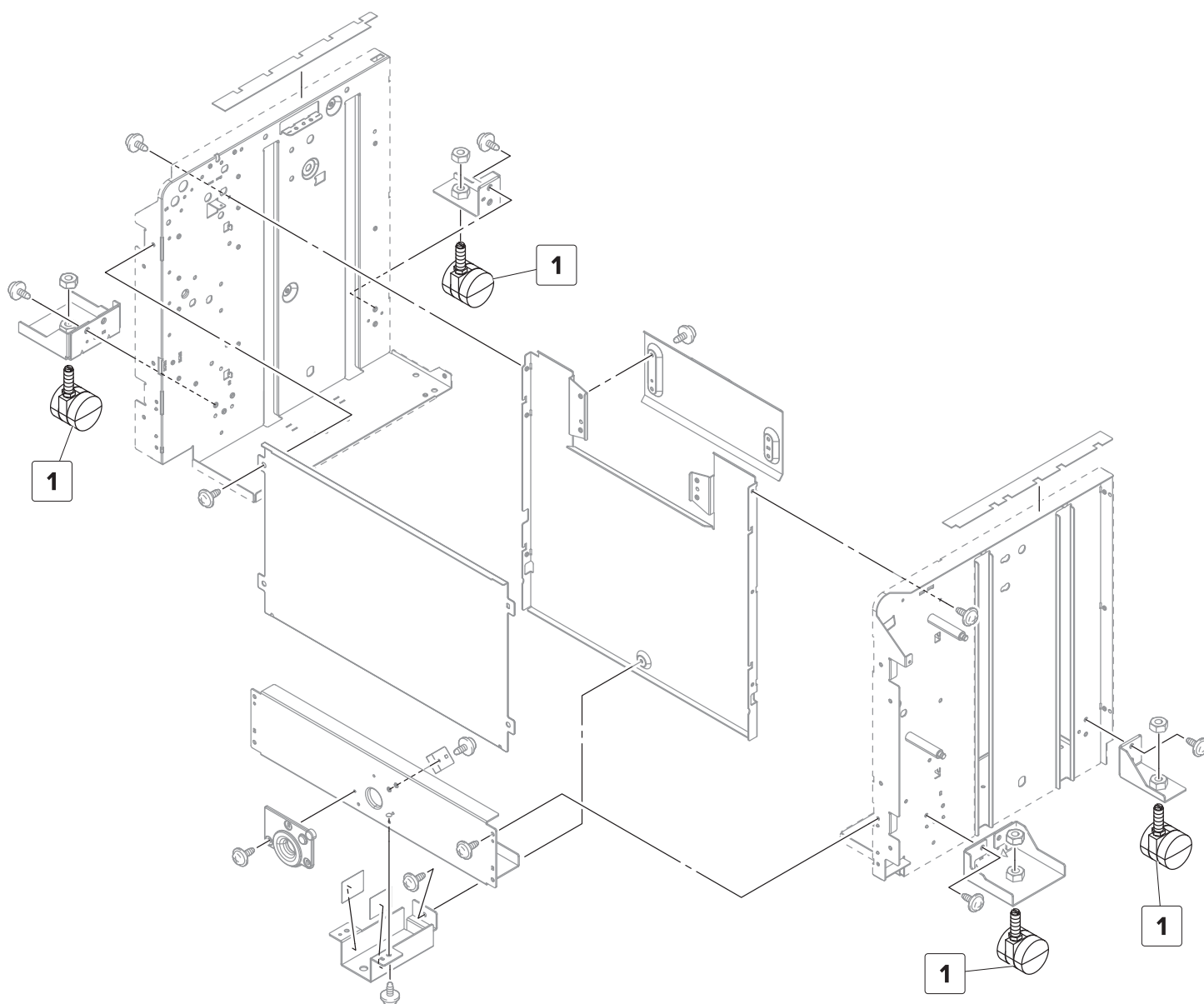
Assembly 84: 3000-sheet tray—Covers



Assembly 84: 3000-sheet tray—Covers

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---------------------------------|--|
| 1 | 40X9260 | 1 | 1 | 3000-sheet tray top door | “3000-sheet tray door removal” on page 938 |
| 2 | 40X9255 | 1 | 1 | 3000-sheet tray right cover | “3000-sheet tray right cover removal” on page 936 |
| 3 | 40X8903 | 1 | 1 | 3000-sheet tray empty LED | “3000-sheet tray empty LED removal” on page 941 |
| 4 | 40X9257 | 1 | 1 | 3000-sheet tray empty LED cable | -- |
| 5 | 40X9884 | 1 | 1 | 3000-sheet tray empty LED cover | “3000-sheet tray front cover removal” on page 936 |
| 6 | 40X9256 | 1 | 1 | 3000-sheet tray front cover | “3000-sheet tray front cover removal” on page 936 |
| 7 | 40X9259 | 1 | 1 | 3000-sheet tray slit cover | -- |
| 8 | 40X9765 | 1 | 1 | 3000-sheet tray left top cover | “3000-sheet tray left top cover removal” on page 939 |
| 9 | 40X9258 | 1 | 1 | 3000-sheet tray rear cover | “3000-sheet tray rear cover removal” on page 937 |

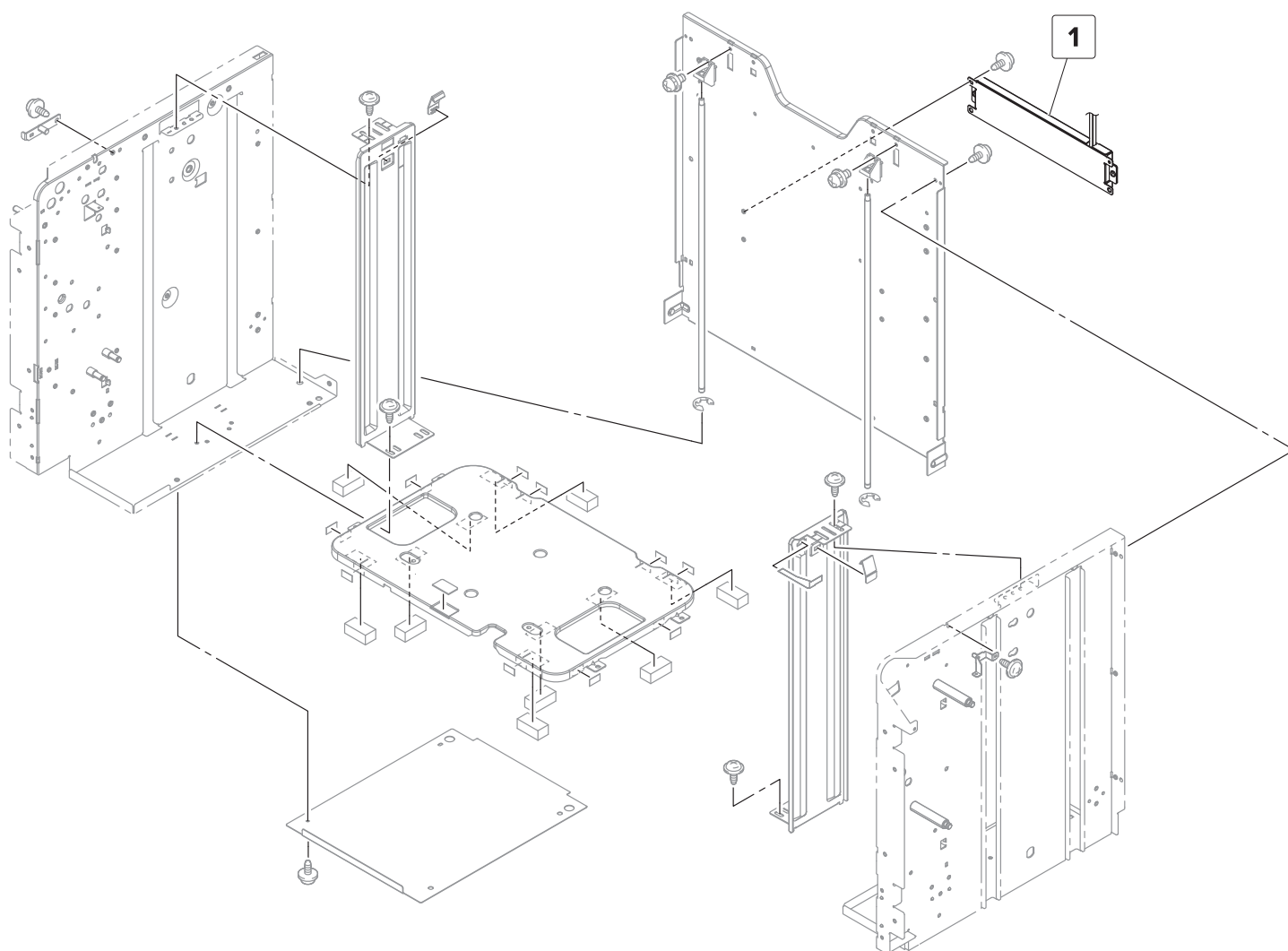
Assembly 85: 3000-sheet tray—Frame 1



Assembly 85: 3000-sheet tray—Frame 1

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|------------------------------|--|
| 1 | 40X9279 | 4 | 1 | 3000-sheet tray caster wheel | “3000-sheet tray caster wheel removal” on page 933 |

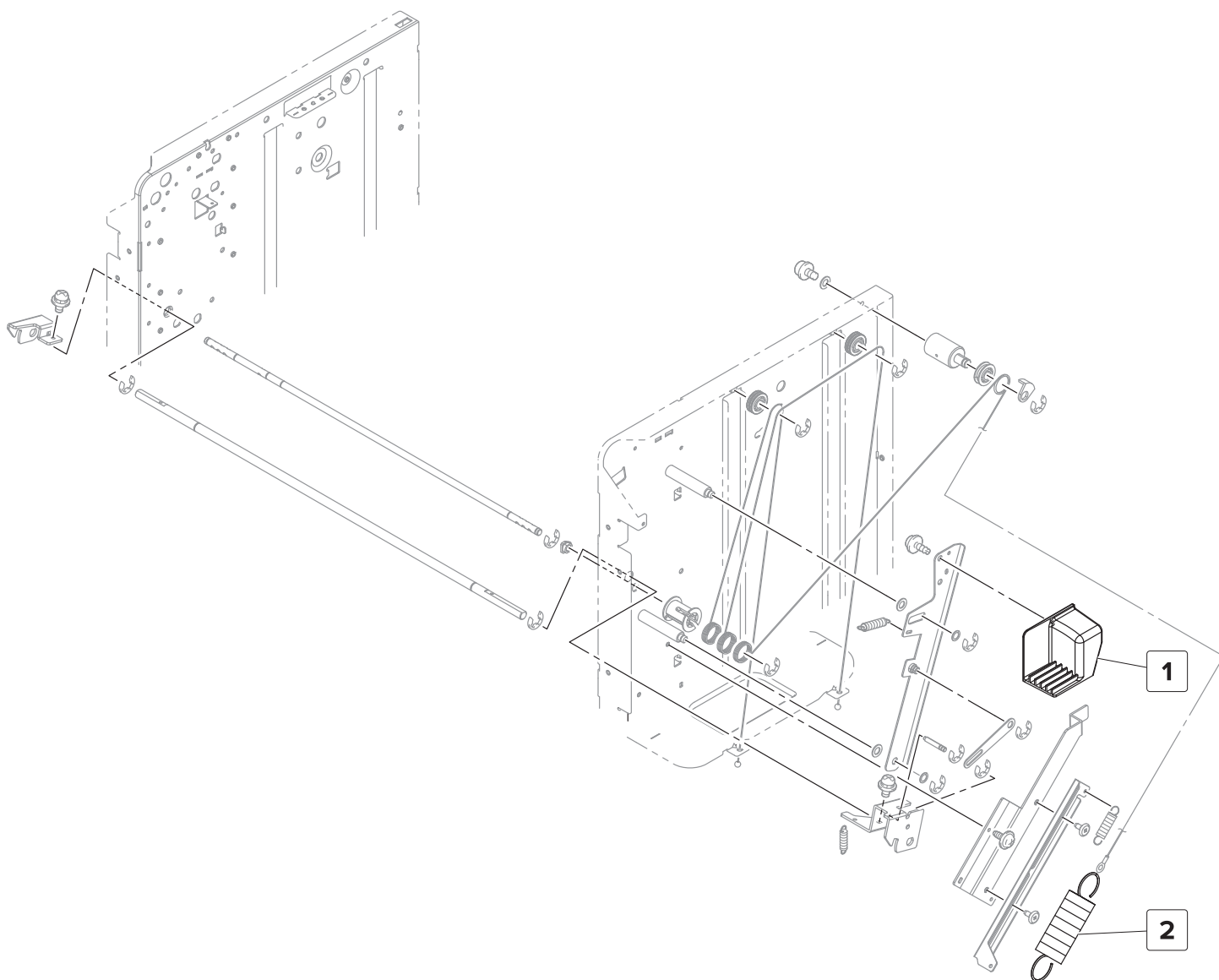
Assembly 86: 3000-sheet tray—Frame 2



Assembly 86: 3000-sheet tray—Frame 2

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--------------|--|
| 1 | 40X9261 | 1 | 1 | Dehumidifier | “Dehumidifier removal” on page 940 |

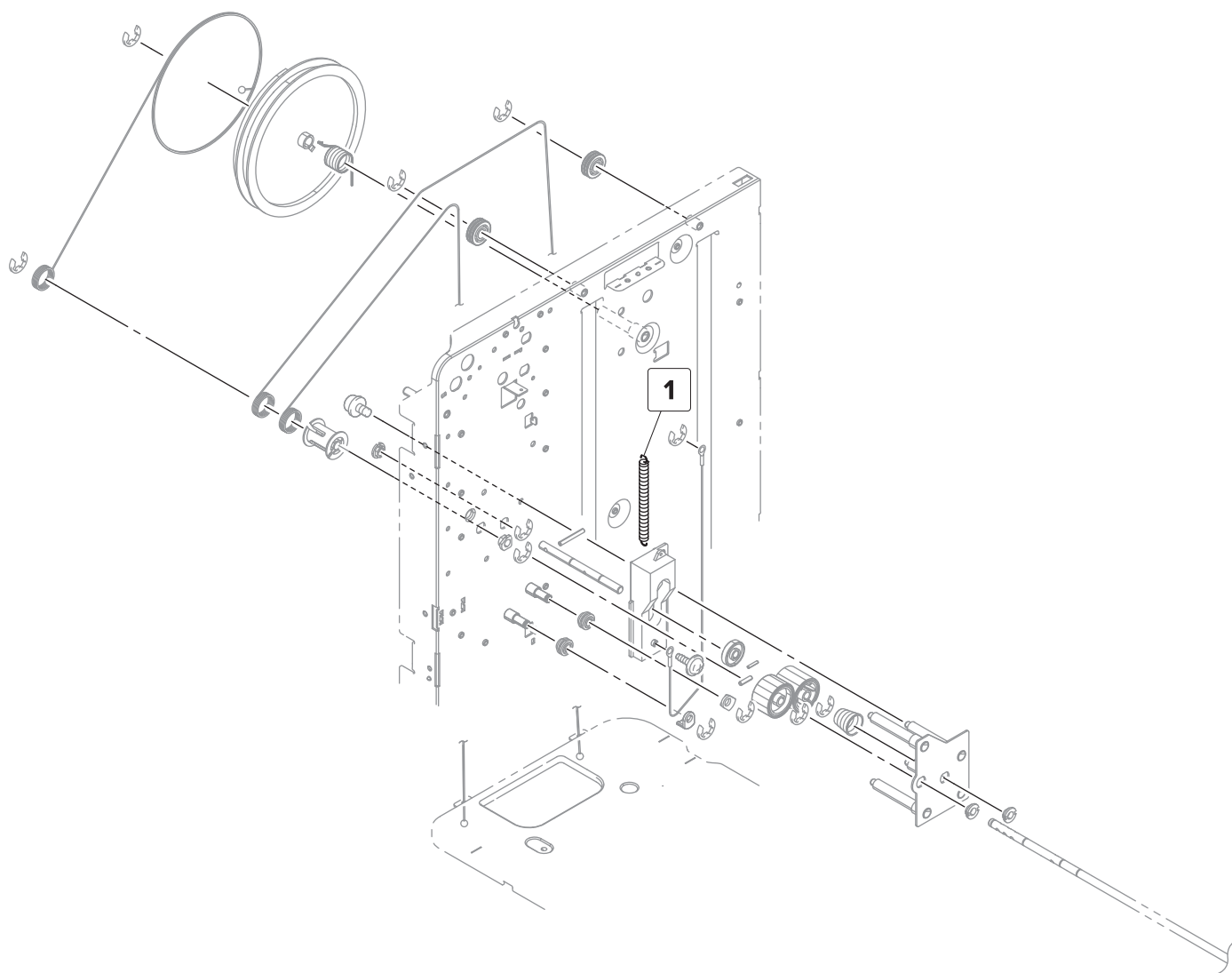
Assembly 87: 3000-sheet tray—Elevator front section



Assembly 87: 3000-sheet tray—Elevator front section

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---------------------------------|---|
| 1 | 40X9275 | 1 | 1 | 3000-sheet tray release handle | “3000-sheet tray release handle removal” on page 934 |
| 2 | 40X9276 | 1 | 1 | 3000-sheet tray elevator spring | “3000-sheet tray elevator spring removal” on page 944 |

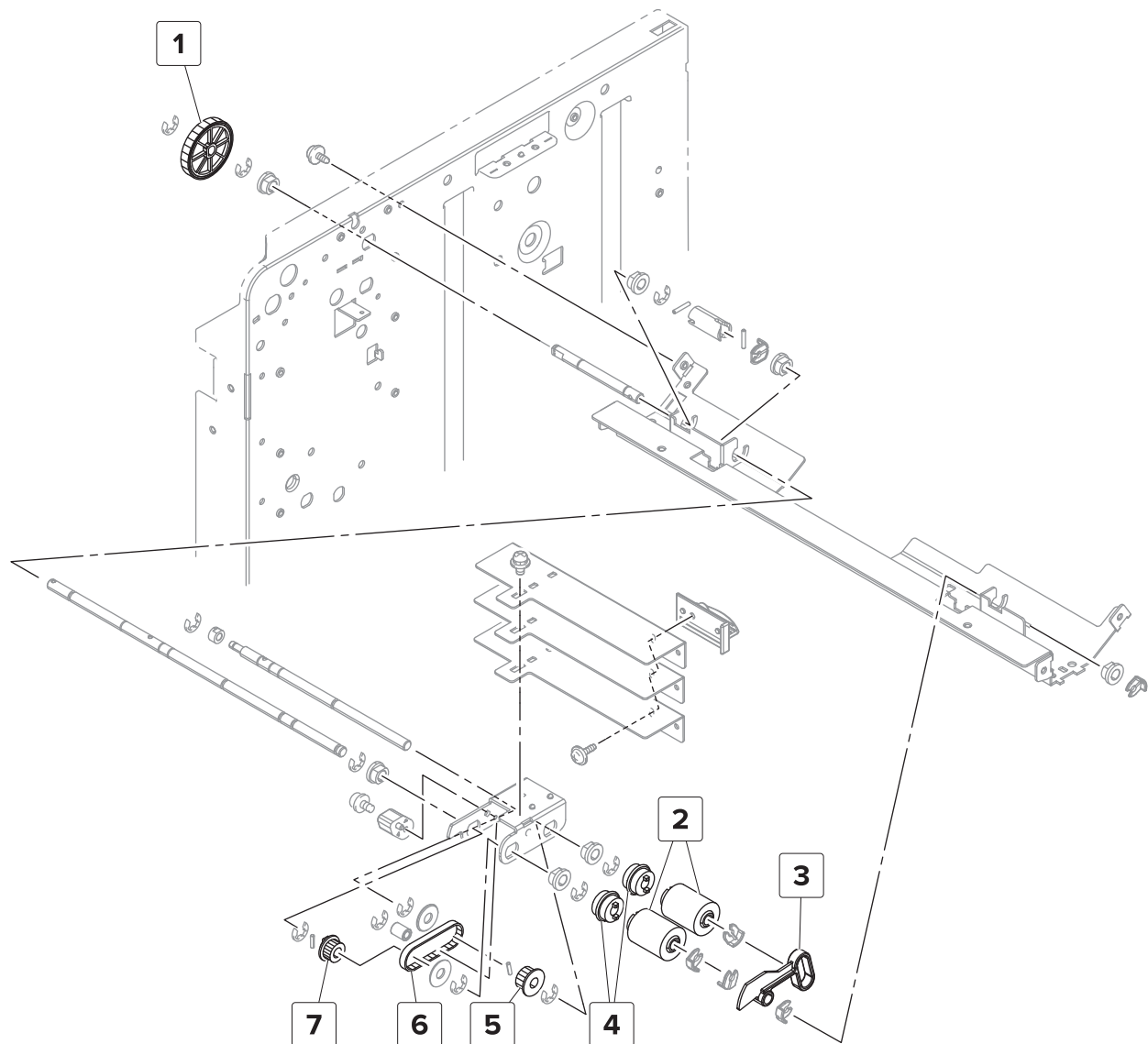
Assembly 88: 3000-sheet tray—Elevator rear section



Assembly 88: 3000-sheet tray—Elevator rear section

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|-------------------|
| 1 | 40X9277 | 1 | 1 | 3000-sheet tray elevator release spring | -- |

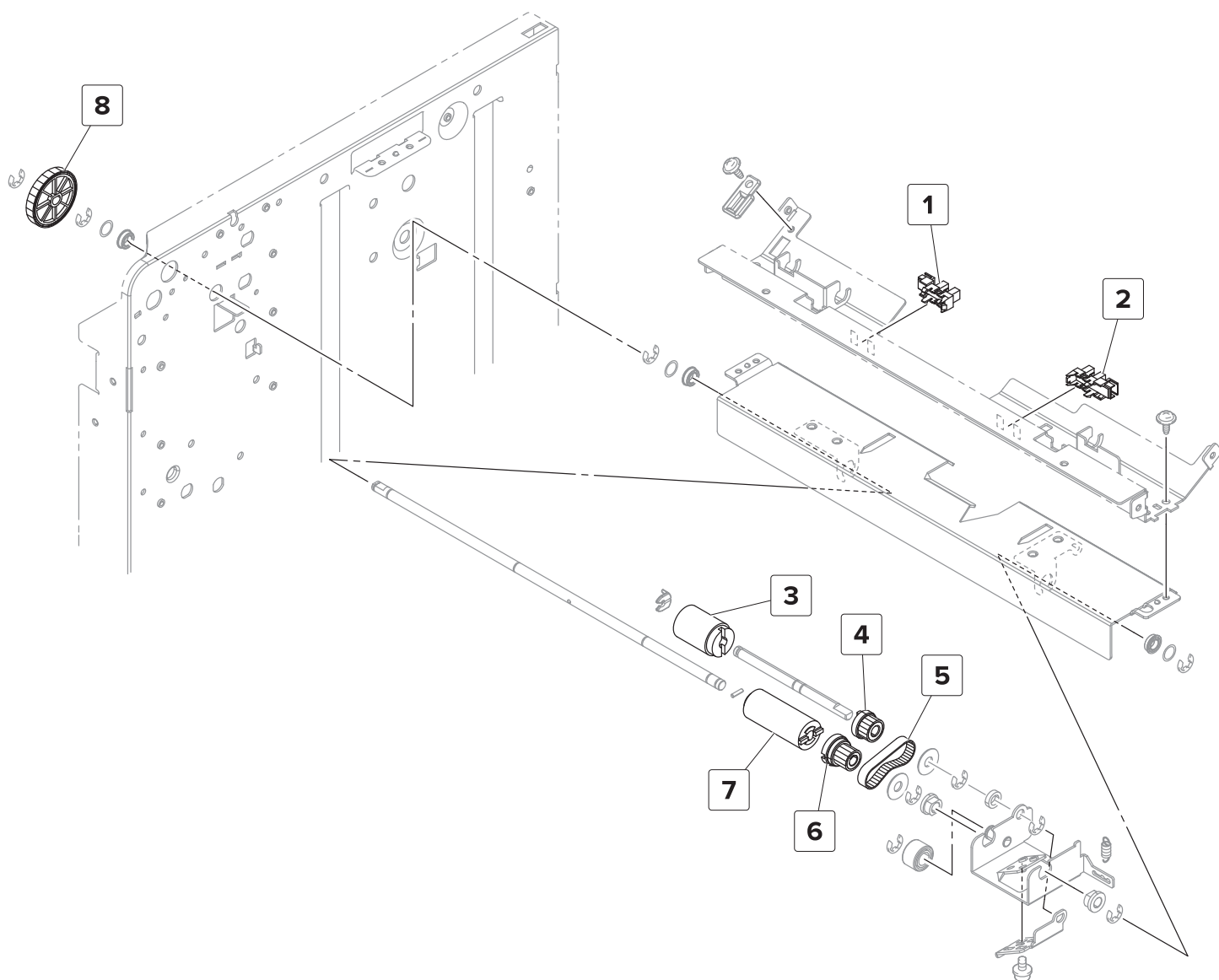
Assembly 89: 3000-sheet tray—Paper feed 1



Assembly 89: 3000-sheet tray—Paper feed 1

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|--|
| 1 | 40X9886 | 1 | 1 | 3000-sheet tray feed and pick drive gear | “3000-sheet tray pick roller assembly removal” on page 954 |
| 2 | 41X1874 | 2 | 1 | Feed and pick roller | “3000-sheet tray rollers removal” on page 929 |
| 3 | 40X9881 | 1 | 1 | 3000-sheet tray empty sensor actuator | “3000-sheet tray rollers removal” on page 929 |
| 4 | 40X9297 | 2 | 1 | 3000-sheet tray roller clutch | “3000-sheet tray rollers removal” on page 929 |
| 5 | 40X9048 | 1 | 1 | 3000-sheet tray pick gear | “3000-sheet tray feed and pick belt removal” on page 931 |
| 6 | 40X9268 | 1 | 1 | 3000-sheet tray feed and pick belt | “3000-sheet tray feed and pick belt removal” on page 931 |
| 7 | 40X9772 | 1 | 1 | 3000-sheet tray feed gear | “3000-sheet tray feed and pick belt removal” on page 931 |

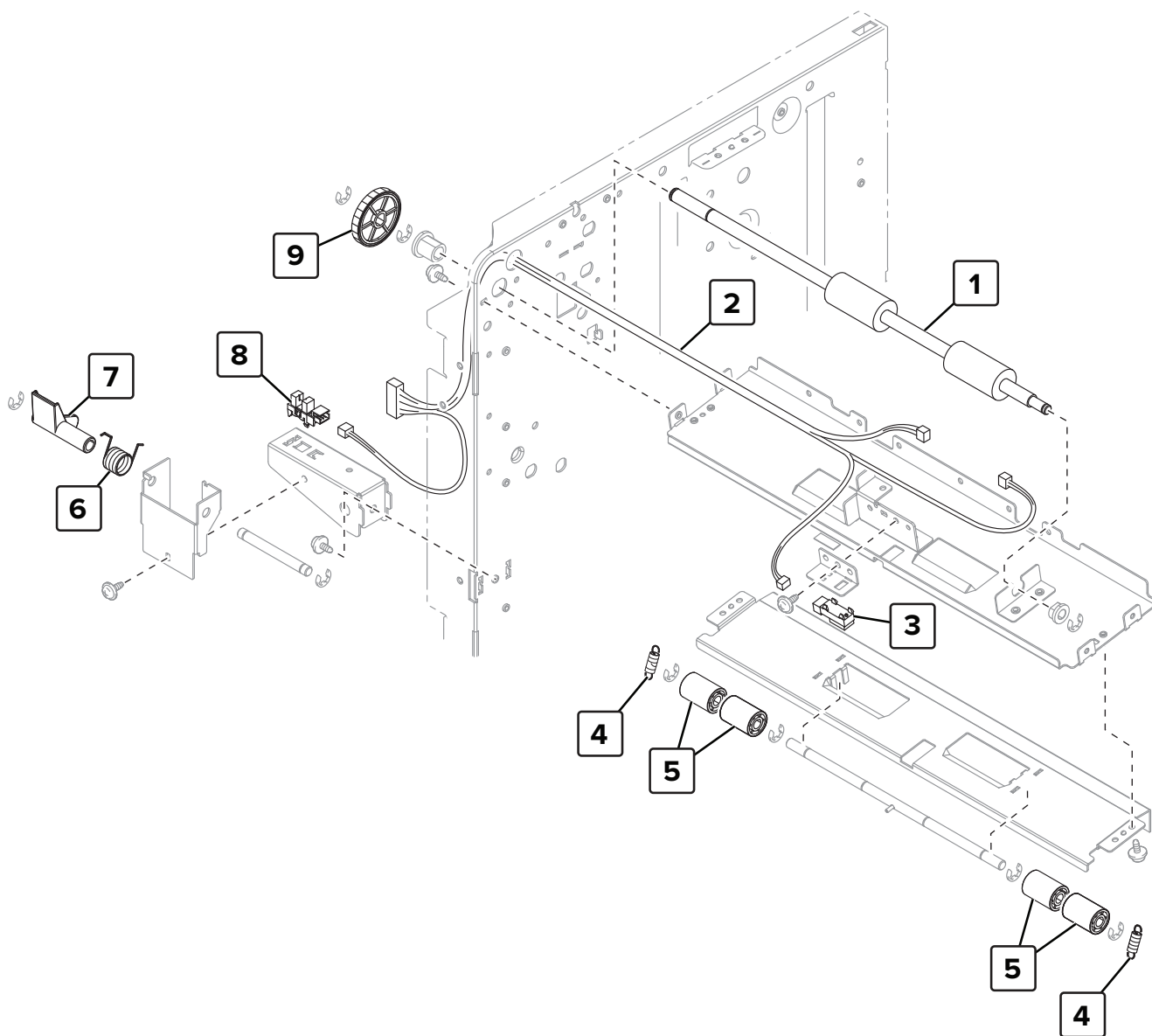
Assembly 90: 3000-sheet tray—Paper feed 2



Assembly 90: 3000-sheet tray—Paper feed 2

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|---|
| 1 | 40X9880 | 1 | 1 | Sensor (3000-sheet tray elevator level) | “Sensor (3000-sheet tray elevator level) removal” on page 942 |
| 2 | 40X9880 | 1 | 1 | Sensor (3000-sheet tray empty) | “Sensor (3000-sheet tray empty) removal” on page 941 |
| 3 | 41X1874 | 1 | 1 | 3000-sheet tray separator roller | “3000-sheet tray feed roller assembly removal” on page 951 |
| 4 | 40X9887 | 1 | 1 | 3000-sheet tray separator roller secondary gear | “3000-sheet tray feed roller assembly removal” on page 951 |
| 5 | 40X9271 | 1 | 1 | 3000-sheet tray separator belt | “3000-sheet tray feed roller assembly removal” on page 951 |
| 6 | 40X9773 | 1 | 1 | 3000-sheet tray separator roller primary gear | “3000-sheet tray feed roller assembly removal” on page 951 |
| 7 | 40X9888 | 1 | 1 | 3000-sheet tray separator roller clutch | “3000-sheet tray feed roller assembly removal” on page 951 |
| 8 | 40X9886 | 1 | 1 | 3000-sheet tray separator roller drive gear | “3000-sheet tray feed roller assembly removal” on page 951 |

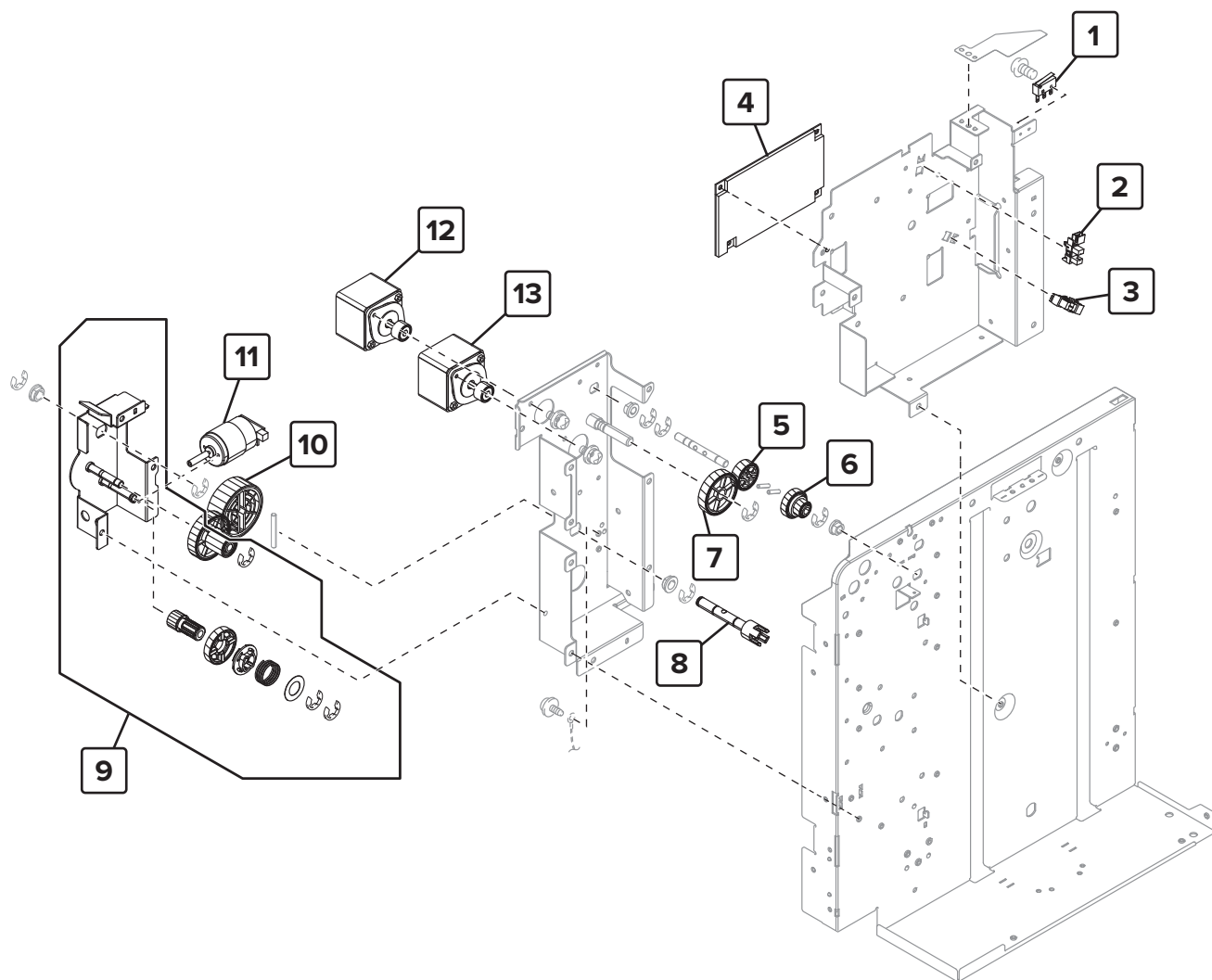
Assembly 91: 3000-sheet tray—Paper transport



Assembly 91: 3000-sheet tray—Paper transport

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|---|--|
| 1 | 40X9273 | 1 | 1 | 3000-sheet tray transport roller | “3000-sheet tray feed roller assembly removal” on page 951 |
| 2 | 40X8929 | 1 | 1 | 3000-sheet tray feed sensor cable | -- |
| 3 | 40X9885 | 1 | 1 | Sensor (3000-sheet tray feed) | “Sensor (3000-sheet tray feed) removal” on page 943 |
| 4 | 40X9770 | 1 | 1 | 3000-sheet tray transport idler roller spring | -- |
| 5 | 40X9771 | 4 | 1 | 3000-sheet tray transport idler roller | “3000-sheet tray feed roller assembly removal” on page 951 |
| 6 | 40X9373 | 1 | 1 | 3000-sheet tray set sensor actuator spring | “3000-sheet tray set sensor actuator removal” on page 946 |
| 7 | 40X9040 | 1 | 1 | 3000-sheet tray set sensor actuator | “3000-sheet tray set sensor actuator removal” on page 946 |
| 8 | 40X9880 | 1 | 1 | Sensor (3000-sheet tray set) | “Sensor (3000-sheet tray set) removal” on page 947 |
| 9 | 40X9769 | 1 | 1 | 3000-sheet tray transport roller drive gear | “3000-sheet tray feed roller assembly removal” on page 951 |

Assembly 92: 3000-sheet tray—Drive section



Assembly 92: 3000-sheet tray—Drive section

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|-------------------|
| 1 | 40X9266 | 1 | 1 | 3000-sheet tray door switch | -- |
| 2 | 40X9880 | 1 | 1 | Sensor (3000-sheet tray near empty 1) | -- |
| 3 | 40X9880 | 1 | 1 | Sensor (3000-sheet tray near empty 2) | -- |
| 4 | 41X2009 | 1 | 1 | 3000-sheet tray controller board | -- |
| 5 | 40X9767 | 1 | 1 | 3000-sheet tray feed motor idler gear | -- |
| 6 | 40X9766 | 1 | 1 | 3000-sheet tray feed and pick idler gear | -- |
| 7 | 40X9768 | 1 | 1 | 3000-sheet tray feed motor gear | -- |
| 8 | 41X2008 | 1 | 1 | 3000-sheet tray elevator drive shaft | -- |
| 9 | 41X2005 | 1 | 1 | 3000-sheet tray elevator drive | -- |
| 10 | 41X2007 | 1 | 1 | 3000-sheet tray elevator drive gear | -- |
| 11 | 41X2006 | 1 | 1 | Motor (3000-sheet tray elevator drive) | -- |
| 12 | 40X9269 | 1 | 1 | Motor (3000-sheet tray transport) | -- |
| 13 | 40X9269 | 1 | 1 | Motor (3000-sheet tray feed) | -- |

Assembly 93: 3000-sheet tray—Wiring

| Asm-index | P/N | Units/opt | Units/FRU | Description | Removal procedure |
|-----------|---------|-----------|-----------|--|-------------------|
| NS | 40X9202 | 1 | 1 | 3000-sheet tray controller board cable | -- |
| NS | 40X9698 | 1 | 1 | 3000-sheet tray interface cable | -- |

Assembly 94: Miscellaneous

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------------------|-------------------|
| NS | 40X9934 | 1 | 1 | Hard disk drive, 500 GB | -- |
| NS | 41X1372 | 1 | 1 | Wireless network card | -- |
| NS | 40X7854 | 1 | 1 | Fax card | -- |
| NS | 40X4819 | 1 | 1 | RS-232C serial adapter | -- |
| NS | 40X4823 | 1 | 1 | 1284-B THCK parallel adapter | -- |
| NS | 40X9652 | 1 | 1 | Fiber gigabit ISP adapter | -- |
| NS | 41X0028 | 1 | 1 | DDR3 RAM, 2 GB | -- |
| NS | 40X1368 | 1 | 1 | USB cable | -- |
| NS | 41X1010 | 1 | 1 | Flash memory, 256 MB | -- |
| NS | 40X8568 | 1 | 1 | Font card, Korean | -- |
| NS | 40X8556 | 1 | 1 | Font card, Traditional Chinese | -- |
| NS | 40X8557 | 1 | 1 | Font card, Simplified Chinese | -- |
| NS | 40X8569 | 1 | 1 | Font card, Japanese | -- |
| NS | 41X1002 | 1 | 1 | Forms and barcode card | -- |
| NS | 41X1006 | 1 | 1 | PRESCRIBE card | -- |
| NS | 41X1004 | 1 | 1 | IPDS SCS TNE card | -- |
| NS | 41X1758 | 1 | 1 | Keyboard kit, Spanish | -- |
| NS | 41X1757 | 1 | 1 | Keyboard kit, German | -- |
| NS | 41X1755 | 1 | 1 | Keyboard kit, French | -- |
| NS | 41X1754 | 1 | 1 | Keyboard kit, English | -- |
| NS | 40X1367 | 1 | 1 | Parallel cable | -- |
| NS | 40X1766 | 1 | 1 | Power cord, Bolivia and Peru | -- |
| NS | 40X0303 | 1 | 1 | Power cord, China | -- |
| NS | 40X0259 | 1 | 1 | Power cord, Brazil | -- |
| NS | 40X0301 | 1 | 1 | Power cord, Australia and New Zealand | -- |
| NS | 40X1774 | 1 | 1 | Power cord, Denmark | -- |
| NS | 40X1767 | 1 | 1 | Power cord, Europe | -- |
| NS | 40X7229 | 1 | 1 | Power cord, India | -- |
| NS | 40X1792 | 1 | 1 | Power cord, Korea | -- |
| NS | 40X1773 | 1 | 1 | Power cord, South Africa | -- |
| NS | 40X0288 | 1 | 1 | Power cord, Argentina | -- |
| NS | 40X0275 | 1 | 1 | Power cord, Israel | -- |
| NS | 40X0273 | 1 | 1 | Power cord, Italy | -- |

| Asm-index | P/N | Units/mach | Units/FRU | Description | Removal procedure |
|-----------|---------|------------|-----------|---------------------------|-------------------|
| NS | 40X0270 | 1 | 1 | Power cord, Japan | -- |
| NS | 40X0271 | 1 | 1 | Power cord, UK | -- |
| NS | 40X1772 | 1 | 1 | Power cord, Switzerland | -- |
| NS | 40X1791 | 1 | 1 | Power cord, Taiwan | -- |
| NS | 40X7104 | 1 | 1 | Power cord, US and Canada | -- |

Printer specifications

Power consumption

Product power consumption

The following table documents the power consumption characteristics of the product.

Note: Some modes may not apply to your product.

| Model | Operating mode | | | | | | |
|---------------|----------------|-------|-------|-------|-------|-----------|-----|
| | Print | Copy | Scan | Ready | Sleep | Hibernate | Off |
| CX920, XC9225 | 575 W | 600 W | 230 W | 220 W | 2.9 W | 0.2 W | 0 W |
| CX921, XC9235 | 600 W | 700 W | 230 W | 220 W | 2.9 W | 0.2 W | 0 W |

The power consumption levels listed in the previous table represent time-averaged measurements. Instantaneous power draws may be substantially higher than the average.

Values are subject to change. See www.lexmark.com for current values.

Sleep Mode

This product is designed with an energy-saving mode called *Sleep Mode*. The Sleep Mode saves energy by lowering power consumption during extended periods of inactivity. The Sleep Mode is automatically engaged after this product is not used for a specified period of time, called the *Sleep Mode Timeout*.

| | |
|---|----|
| Factory default Sleep Mode Timeout for this product (in minutes): | 15 |
|---|----|

By using the configuration menus, the Sleep Mode Timeout can be modified between 1 minute and 120 minutes. Setting the Sleep Mode Timeout to a low value reduces energy consumption, but may increase the response time of the product. Setting the Sleep Mode Timeout to a high value maintains a fast response, but uses more energy.

Hibernate Mode

This product is designed with an ultra-low power operating mode called *Hibernate mode*. When operating in Hibernate Mode, all other systems and devices are powered down safely.

The Hibernate mode can be entered in any of the following methods:

- Using the Hibernate Timeout
- Using the Schedule Power modes

| | |
|--|--------|
| Factory default Hibernate Timeout for this product in all countries or regions | 3 days |
|--|--------|

The amount of time the printer waits after a job is printed before it enters Hibernate mode can be modified between one hour and one month.

Off mode

If this product has an off mode which still consumes a small amount of power, then to completely stop product power consumption, disconnect the power supply cord from the electrical outlet.

Total energy usage

It is sometimes helpful to calculate the total product energy usage. Since power consumption claims are provided in power units of Watts, the power consumption should be multiplied by the time the product spends in each mode in order to calculate energy usage. The total product energy usage is the sum of each mode's energy usage.

Selecting a location for the printer

When selecting a location for the printer, leave enough room to open trays, covers, and doors and to install hardware options.

- Set up the printer near an electrical outlet.



CAUTION—POTENTIAL INJURY: To avoid the risk of fire or electrical shock, connect the power cord to an appropriately rated and properly grounded electrical outlet that is near the product and easily accessible.



CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock, do not place or use this product near water or wet locations.

- Make sure that airflow in the room meets the latest revision of the ASHRAE 62 standard or the CEN Technical Committee 156 standard.
- Provide a flat, sturdy, and stable surface.
- Keep the printer:
 - Clean, dry, and free of dust.
 - Away from stray staples and paper clips.
 - Away from the direct airflow of air conditioners, heaters, or ventilators.
 - Free from direct sunlight and humidity extremes.
- Observe the recommended temperatures and avoid fluctuations:

| | |
|---------------------|---------------------------|
| Ambient temperature | 10 to 30°C (50 to 86°F) |
| Storage temperature | -10 to 40°C (14 to 104°F) |

- Allow the following recommended amount of space around the printer for proper ventilation:



| | | |
|----------|------------|----------------------|
| 1 | Top | 400 mm (15.70 in.) |
| 2 | Right side | 400 mm (15.70 in.) |
| 3 | Front | 444.5 mm (17.50 in.) |
| 4 | Left side | 120 mm (4.80 in.) |
| 5 | Rear | 120 mm (4.80 in.) |

Noise emission levels

The following measurements were made in accordance with ISO 7779 and reported in conformance with ISO 9296.

Note: Some modes may not apply to your product.

| 1-meter average sound pressure, dBA | |
|-------------------------------------|--|
| Printing | One-sided: 50 (CX920, XC9225); 51 (CX921, XC9235) Two-sided: 51 (CX920, XC9225); 53 (CX921, XC9235) |
| Scanning | 54 (CX920, XC9225); 55 (CX921, XC9235) |
| Copying | 53 |
| Ready | 25 |

Values are subject to change. See www.lexmark.com for current values.

Temperature information

| | |
|---|---|
| Ambient operating temperature | 10 to 30°C (50 to 86°F) |
| Shipping temperature | -10 to 40°C (14 to 104°F) |
| Storage temperature and relative humidity | -10 to 40°C (14 to 104°F) 15 to 85% RH |

Options and features

Some of the options may not be available in every country or region.

Available internal options

- Memory card
 - DDR3 DIMM
 - Flash memory
 - Fonts
 - Application cards
 - Forms and Bar Code
 - PRESCRIBE
 - IPDS
- Lexmark Internal Solutions Port (ISP)
 - MarkNet™ N8370 Wi-Fi option
 - IEEE 1284-B Parallel Card
 - RS-232C Serial Card

Input/output configurations and capacities

Input sources

| Printer model | Number of standard trays | Maximum number of optional trays* | Maximum number of trays |
|---|--------------------------|-----------------------------------|-------------------------|
| CX920de, XC9225 | 3 | 3 | 6 |
| CX921de, XC9245 | 3 | 3 | 6 |
| * The printer can support a maximum of three optional trays in one configuration. | | | |

Input capacities

| Printer model | 500-sheet trays | Multipurpose feeder | Total standard capacity | Maximum input capacity |
|-----------------|-----------------|---------------------|-------------------------|------------------------|
| CX920de, XC9225 | 500 | 150 | 1150 | 6650 |
| CX921de, XC9245 | 500 | 150 | 1150 | 6650 |

Input capacity by paper and source

| Source | | Minimum supported standard size | Maximum supported standard size | Supported custom width (mm) | Supported custom length (mm) | Paper basis weight (g/m ²) | Paper capacity ¹ |
|------------------|-------------------|---|---|-----------------------------|------------------------------|--|-----------------------------|
| 500-sheet trays | Trays 1, 3, and 4 | A5 short edge first | <ul style="list-style-type: none">A3 short edge first11 x 17 short edge first | 139.7–297 | 182–431.8 | 60–256 | 500 per tray |
| | Tray 2 | | <ul style="list-style-type: none">SRA3 short edge first12 x 18 short edge first | | 320–457.2 | | 500 |
| 2500-sheet tray | Tray 3 | <ul style="list-style-type: none">A4 long edge firstLetter long edge first | | N/A | | | 2500 |
| MPF ² | MPF tray | <ul style="list-style-type: none">PostcardEnvelope | <ul style="list-style-type: none">SRA3 short edge first12 x 18 short edge firstBanner | 90–320 | 139.7–1200 | | 150 |
| 3000-sheet tray | Trays 4 and 5 | <ul style="list-style-type: none">A4 long edge firstLetter long edge first | | N/A | | | 3000 |

^a Paper capacity means 20-lb xerographic paper at ambient environment per sheet.
^b The MPF can support up to 125 transparencies, 81 card stock sheets, 75 labels, 25 envelopes.

Supported output options

- Staple finisher
- Staple, hole punch finisher
- Booklet maker

Theory of operation

Power-on reset (POR)

As the printer turns on, the engine code goes through a series of tests to verify hardware integrity. If a hardware failure is detected, then it is reported to the printer. If the POR cannot be completed successfully, then the printer may post an error message identifying that service may be needed.

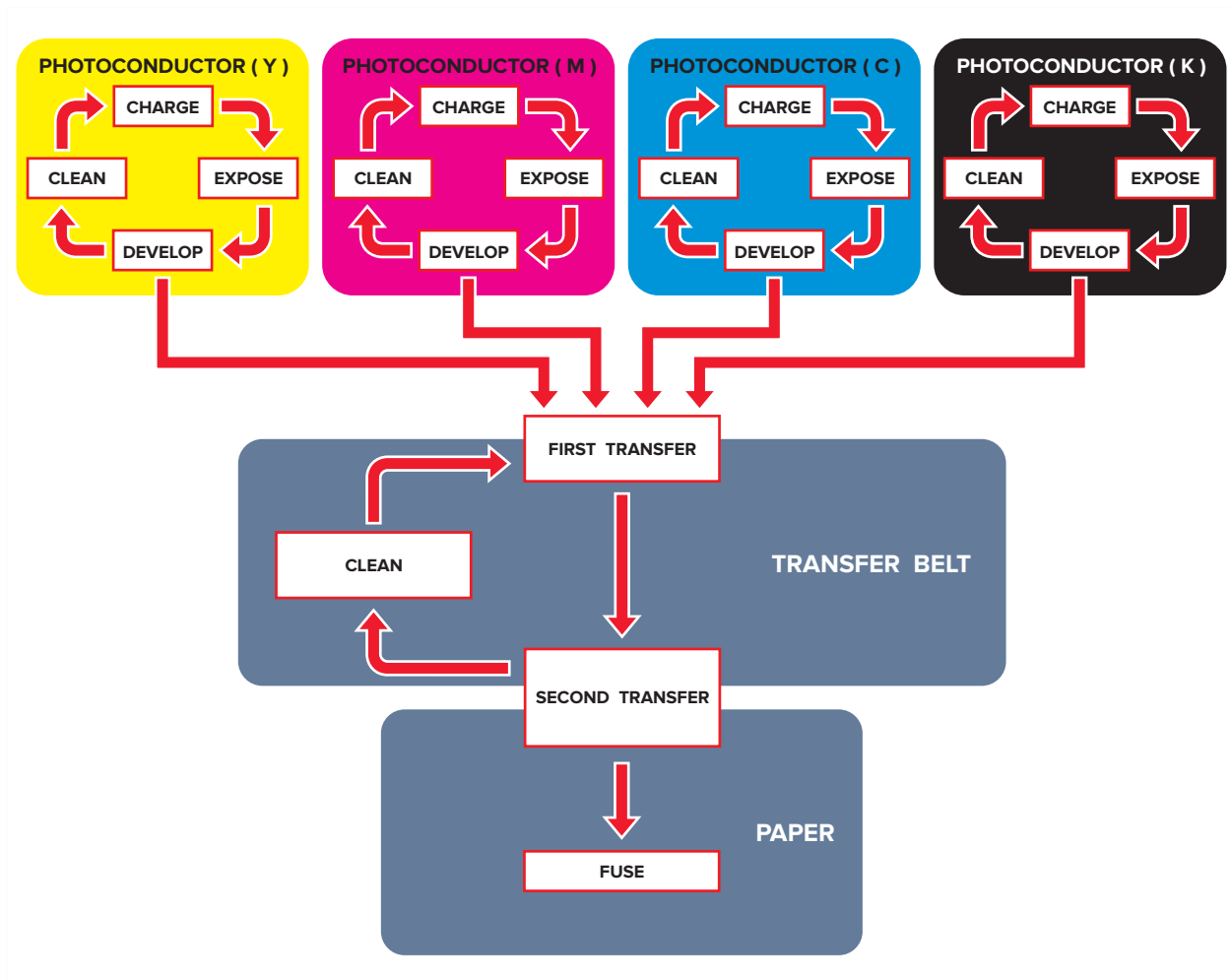
Printer control

The raster image processor (RIP) code performs system responsibilities such as computer connection, LAN, ISP attachments, and bitmap generation. The engine code performs tasks related to the operation of the electrical and mechanical device systems such as motors, lasers, power supplies, and fusers. The NVRAMs are located on the controller board and control panel. Replacement of either the controller board or control panel will pull or mirror NVRAM data from each other.

Print cycle operation

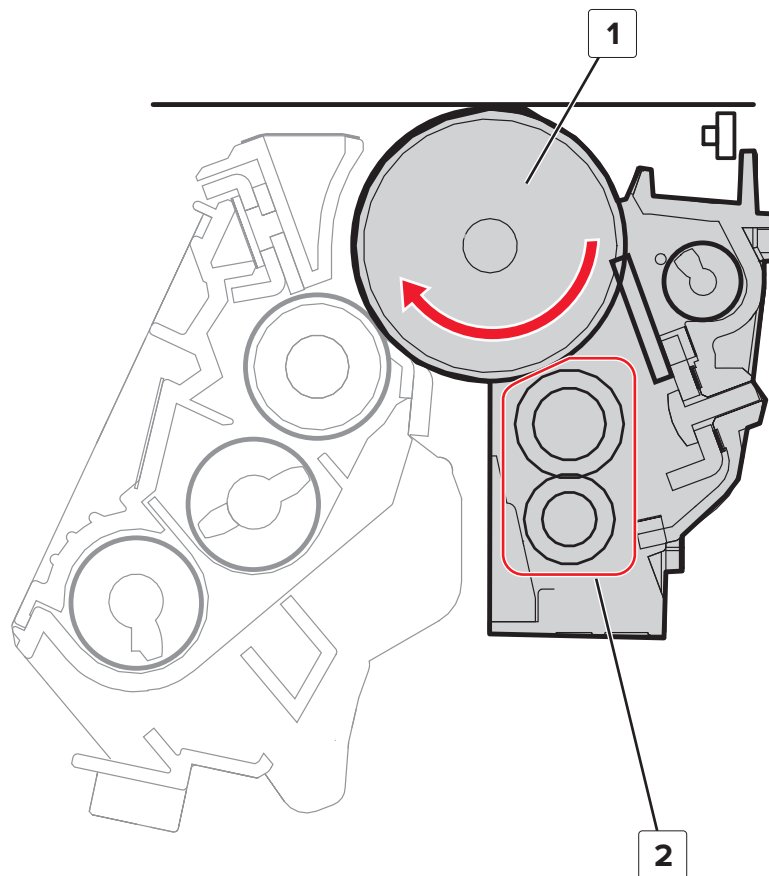
Print cycle

Flowchart



Charge

A uniform negative electrical charge is applied to the surface of the photoconductor roller. The photoconductive properties of the surface material allow it to hold the charge as long as it is not exposed to light.



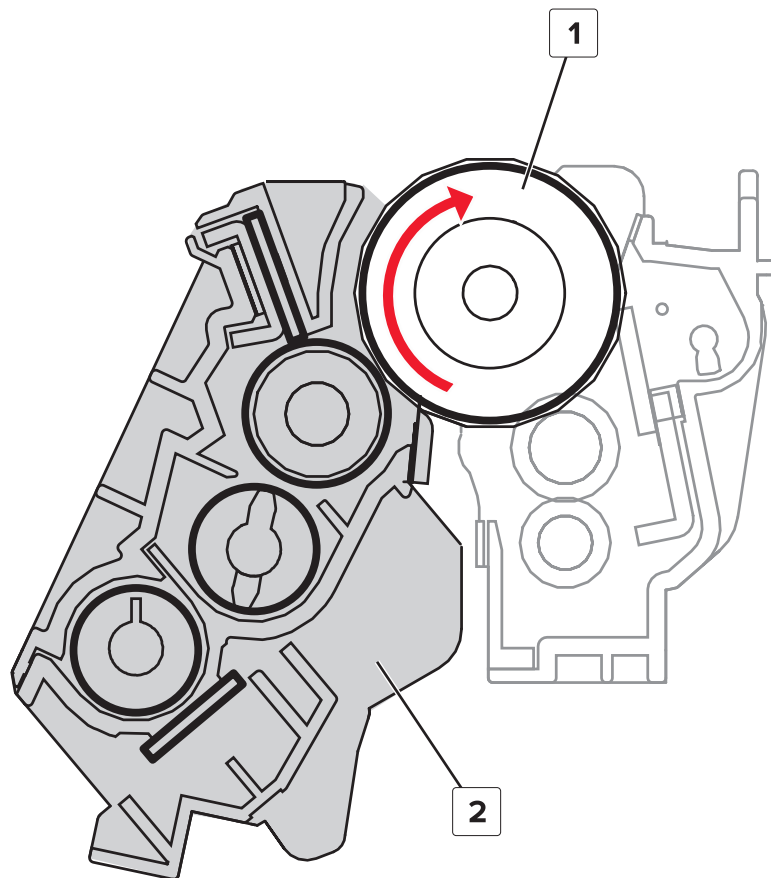
| # | Part |
|---|-----------------------|
| 1 | Photoconductor roller |
| 2 | Charge source |

Expose

The printhead emits the light that hits the surface of the photoconductor. The light turns on or off coinciding with the digital image that is printed. The light causes areas of the photoconductor surface to lose its charge resulting in a relative opposite polarity.

Develop

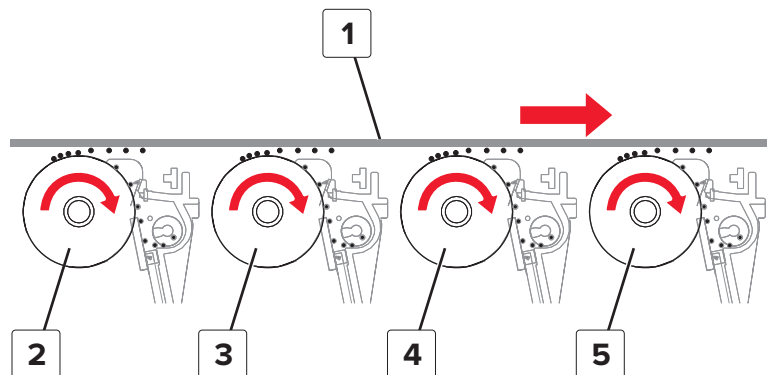
The developer feeds the toner from the toner cartridge to the photoconductor. The difference in charge causes the toner particles to attract to the areas of the photoconductor exposed to light.



| # | Part |
|---|-----------------------|
| 1 | Photoconductor roller |
| 2 | Developer |

First transfer

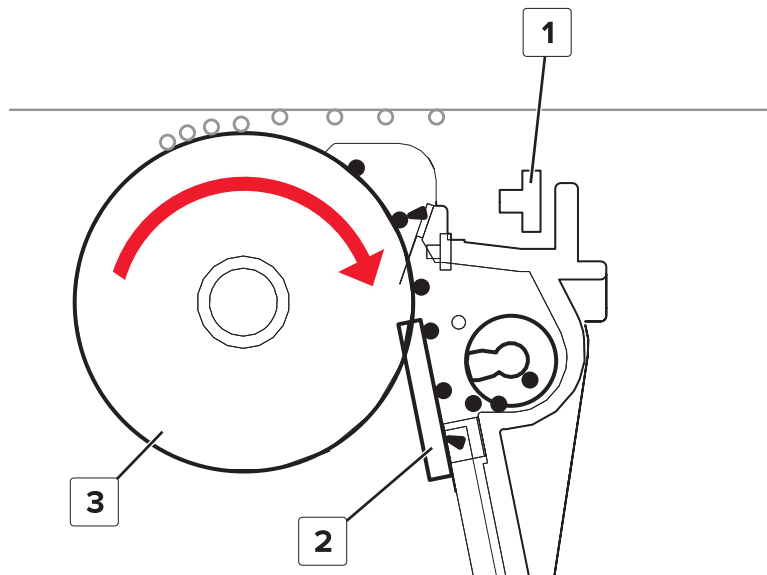
The developed image transfers from the photoconductor rollers to the transfer belt. Due to relative opposite polarities, the transfer belt pressed against the photoconductors attracts the toner onto its surface.



| # | Part |
|---|------------------|
| 1 | Transfer belt |
| 2 | Y photoconductor |
| 3 | M photoconductor |
| 4 | C photoconductor |
| 5 | K photoconductor |

Clean (photoconductor)

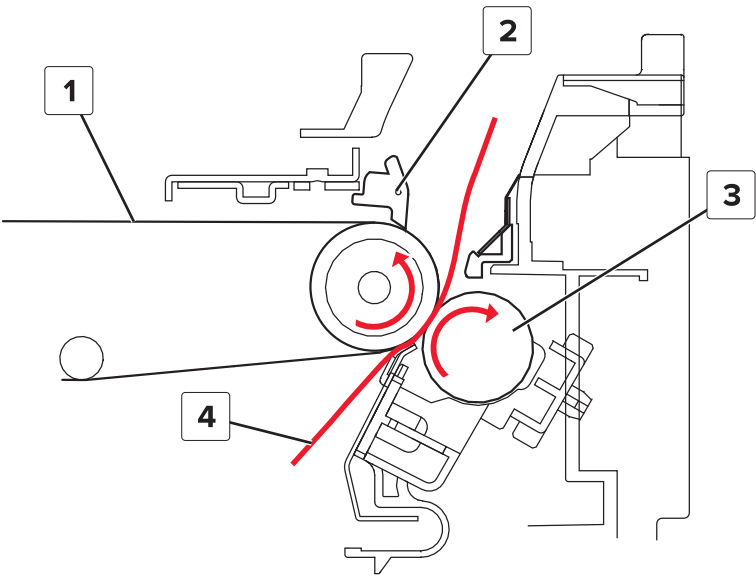
The erase LED emits light that neutralizes the remaining charge on the photoconductor surface. As a result, the toner loosens or separates from the photoconductor. A cleaning blade scrapes off the remaining toner. The cycle (charge, expose, develop, first transfer, clean) repeats until the whole image is transferred to the transfer belt.



| # | Part |
|---|-----------------------|
| 1 | Erase LED |
| 2 | Cleaning blade |
| 3 | Photoconductor roller |

Second transfer

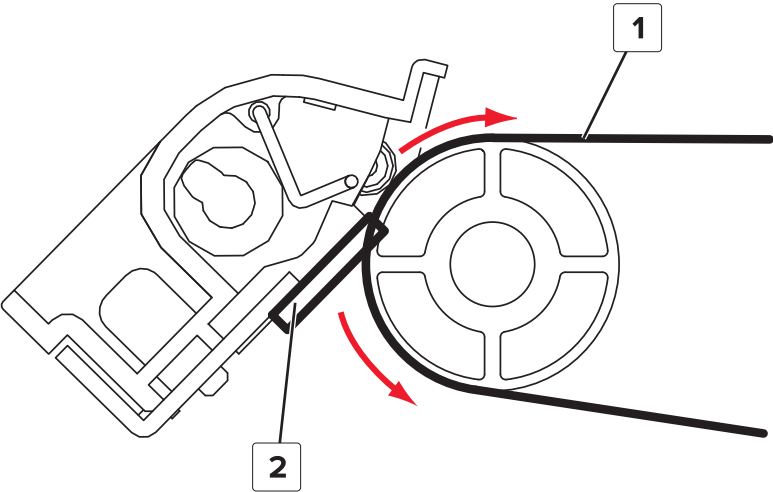
The whole image from the transfer belt is transferred again, this time onto the paper. The paper, which is pressed between the transfer belt and transfer roller, attracts the toner to its surface. As the paper moves up, a separator guide prevents it from entering the top side of the transfer belt.



| # | Part |
|---|-----------------|
| 1 | Transfer belt |
| 2 | Separator guide |
| 3 | Transfer roller |
| 4 | Paper |

Clean (transfer belt)

Some residual toner stick to the surface of the transfer belt. To prevent contamination on the next image, a cleaning blade scrapes off the toner from the transfer belt surface. Waste toner from the transfer belt and photoconductor is transported to the waste toner bottle. The cycle (first transfer, second transfer, clean) repeats for the succeeding print jobs.

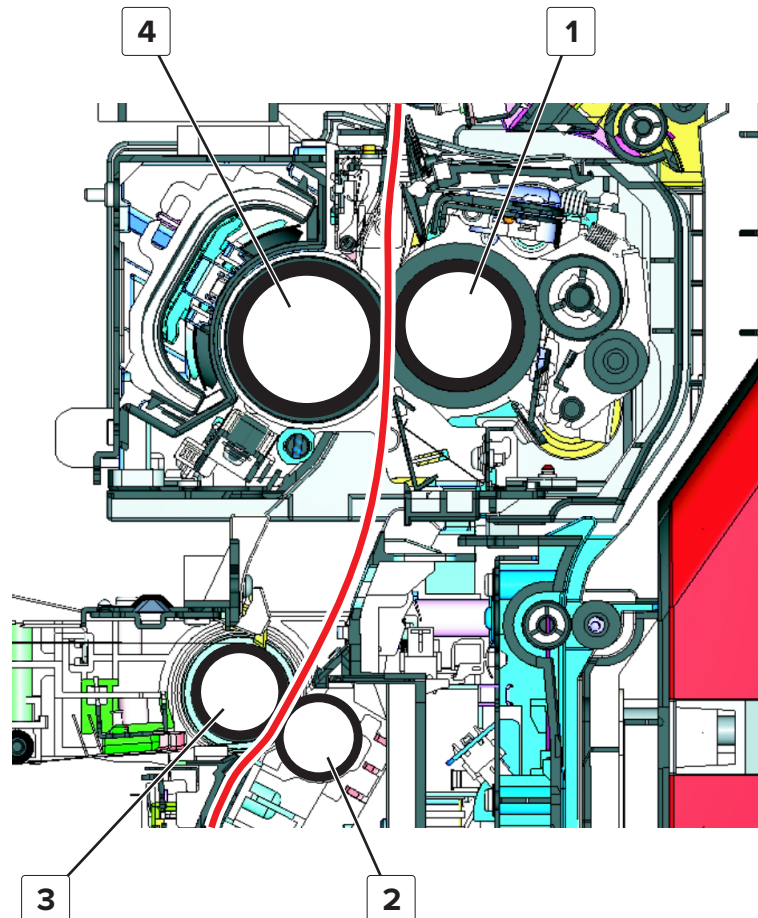


| # | Part |
|---|----------------|
| 1 | Transfer belt |
| 2 | Cleaning blade |

Theory of operation

Fuse

Even if the toner image is already on the paper, the toner particles are not yet permanently bonded to the surface. For the final part of printing, paper is transported to the fuser where heat and pressure are applied to it. As a result, the toner particles melt and permanently fuse with the paper, completing the print process. The print cycle repeats for the succeeding pages.



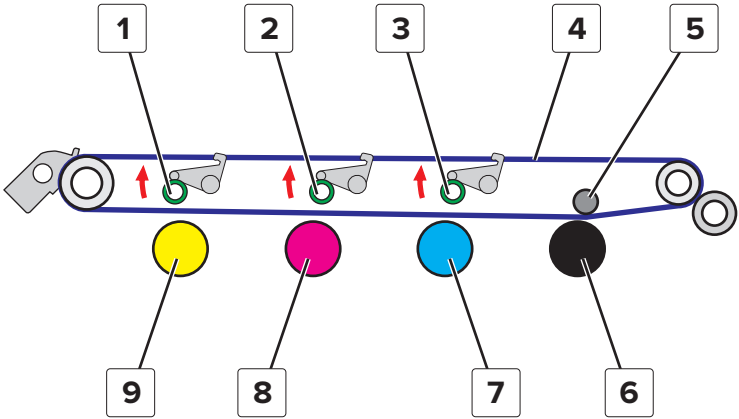
| # | Part |
|---|-----------------|
| 1 | Pressure roller |
| 2 | Transfer roller |
| 3 | Transfer belt |
| 4 | Heat roller |

Print mode control

The Y, M, and C transfer rollers have pressure mechanisms which allow the rollers to raise, or press the transfer belt against the photoconductor. The K transfer roller does not have a pressure mechanism.

Black mode

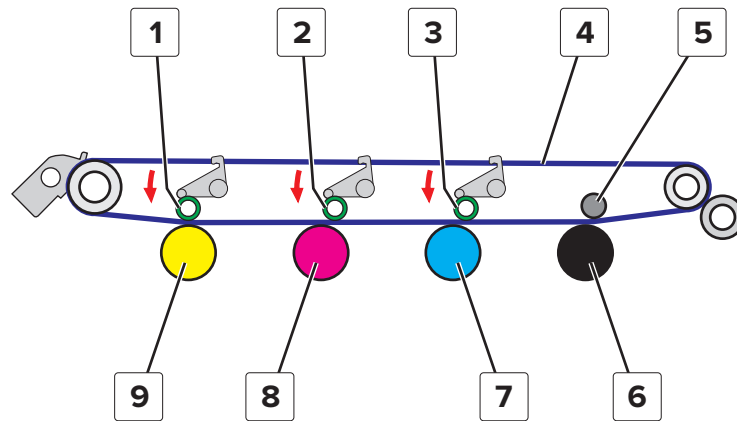
The Y, M, and C transfer rollers are raised, and the transfer belt is retracted from the Y, M, and C photoconductors. Only the K transfer roller presses the transfer belt against the photoconductor.



| # | Part |
|---|-------------------|
| 1 | Y transfer roller |
| 2 | M transfer roller |
| 3 | C transfer roller |
| 4 | Transfer belt |
| 5 | K transfer roller |
| 6 | K photoconductor |
| 7 | C photoconductor |
| 8 | M photoconductor |
| 9 | Y photoconductor |

Color mode

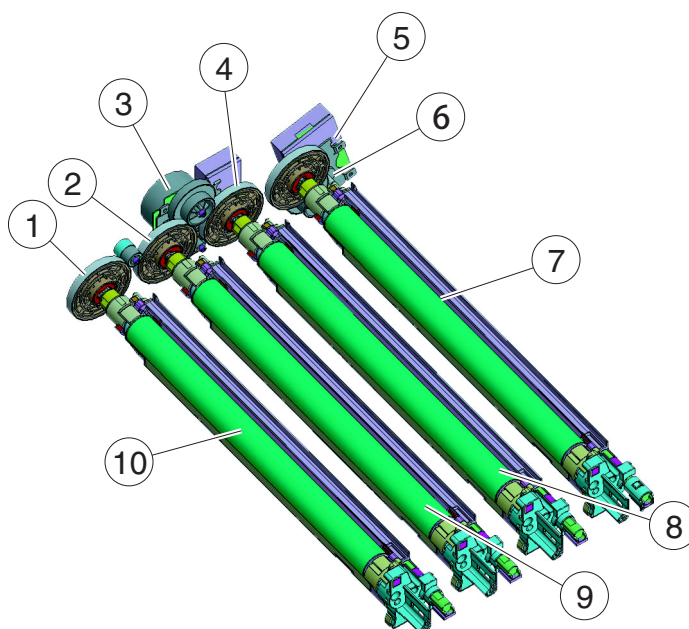
The Y, M, and C transfer roller pressure mechanisms are engaged. All transfer rollers press the transfer belt against the photoconductors.



| # | Part |
|---|-------------------|
| 1 | Y transfer roller |
| 2 | M transfer roller |
| 3 | C transfer roller |
| 4 | Transfer belt |
| 5 | K transfer roller |
| 6 | K photoconductor |
| 7 | C photoconductor |
| 8 | M photoconductor |
| 9 | Y photoconductor |

Photoconductor drive

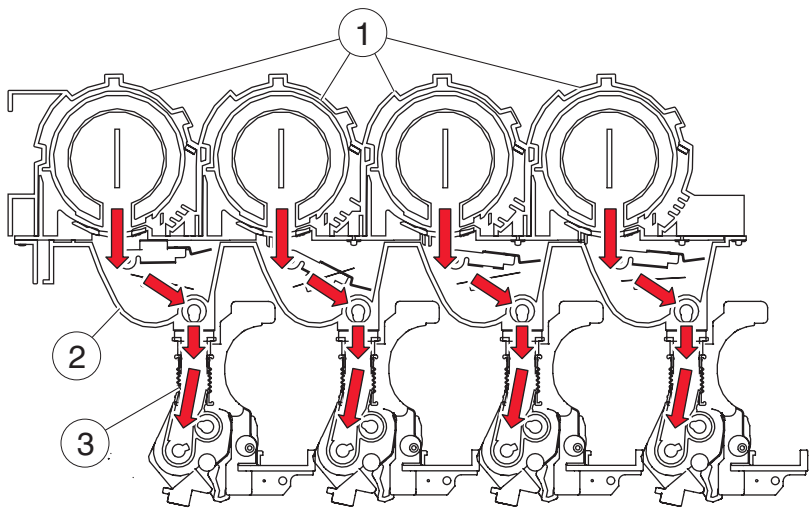
Two independent motors are used in the photoconductor drive mechanism to suppress incorrect color registration and uneven pitch. The motor (photoconductor) drives the C, M, and Y photoconductor drums and augers. The motor (transport) drives the K photoconductor drum and auger.



| # | Part |
|----|-----------------------------|
| 1 | Y photoconductor drive gear |
| 2 | M photoconductor drive gear |
| 3 | Motor (photoconductor) |
| 4 | C photoconductor drive gear |
| 5 | Motor (transport) |
| 6 | K photoconductor drive gear |
| 7 | K photoconductor drum |
| 8 | C photoconductor drum |
| 9 | M photoconductor drum |
| 10 | Y photoconductor drum |

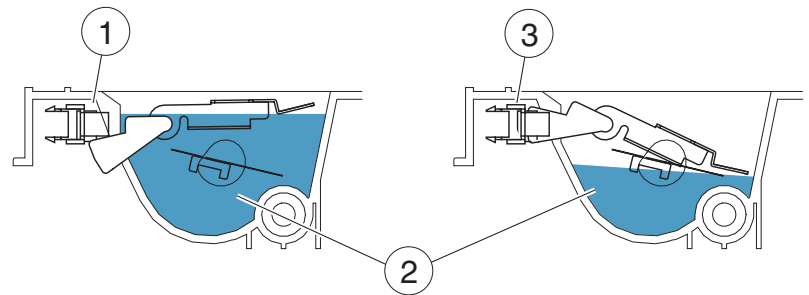
Toner refill drive

The toner cartridge supplies toner to the toner hopper. The toner hopper supplies toner to the developer unit through the toner replenishing pipe.



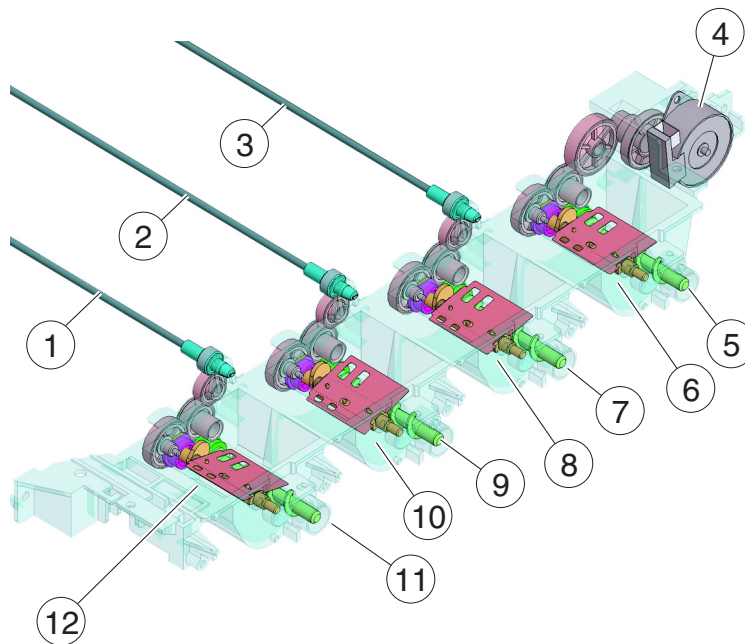
| # | Part |
|---|-------------------------|
| 1 | Toner cartridge |
| 2 | Toner hopper |
| 3 | Toner replenishing pipe |

The toner hopper of each color has a sensor (toner empty). When toner is low in the toner hopper, the sensor (toner empty) is triggered. The motor (toner cartridge) turns for a predetermined period to supply toner to the toner hopper.



| # | Part |
|---|--------------------------|
| 1 | Sensor (toner empty) off |
| 2 | Toner |
| 3 | Sensor (toner empty) on |

The motor (toner supply) of each color drives the toner conveying screw and toner agitating blade. The toner agitating blade rotates to agitate toner in the toner hopper. The toner conveying screw rotates to replenish the developer unit with toner.



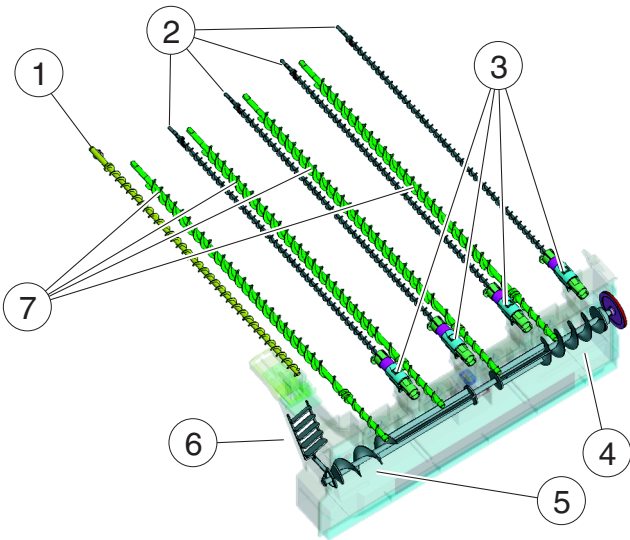
| # | Part |
|----|------------------------------|
| 1 | Y motor (toner supply) drive |
| 2 | M motor (toner supply) drive |
| 3 | C motor (toner supply) drive |
| 4 | K motor (toner supply) |
| 5 | K toner conveying screw |
| 6 | K toner agitating blade |
| 7 | C toner conveying screw |
| 8 | C toner agitating blade |
| 9 | M toner conveying screw |
| 10 | M toner agitating blade |
| 11 | Y toner conveying screw |
| 12 | Y toner agitating blade |

Waste toner drive

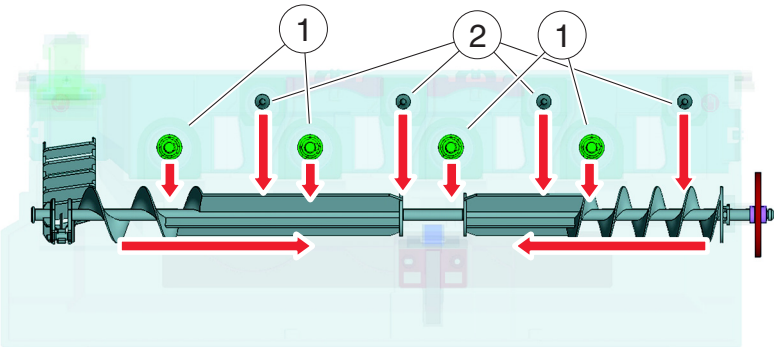
Cleaning blades remove toner residue from the photoconductor drums and transfer belt. The residue are transported to the waste toner bottle through the toner collecting screws and ports.

Inside the waste toner bottle, a toner agitating blade moves up and down as the screw rotates to prevent the toner from stagnating. The waste toner bottle collecting screw 1 evenly distributes stagnant toner into the central portion of the bottle. The waste toner bottle collecting screw 2 evenly distributes toner conveyed from the transfer belt into the central portion of the bottle.

Note: The toner agitating blade is dedicated to the transfer belt toner collecting port only.



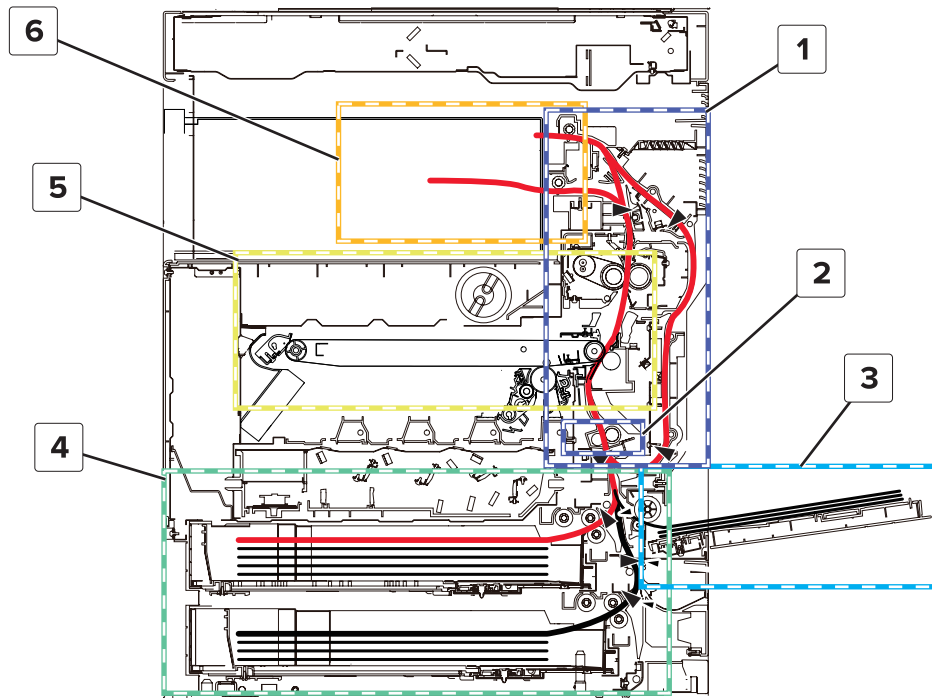
| # | Part |
|---|--|
| 1 | Toner collecting screw (transfer belt) |
| 2 | Toner collecting screw (Y,M,C,K) |
| 3 | Toner collecting port (Y,M,C,K) |
| 4 | Waste toner bottle collecting screw 1 |
| 5 | Waste toner bottle collecting screw 2 |
| 6 | Toner agitating blade |
| 7 | Toner supply screw (developer unit) |



| # | Part |
|---|--|
| 1 | Developer unit toner collecting ports |
| 2 | Photoconductor drum toner collecting ports |

Printer operation

Printer paper path

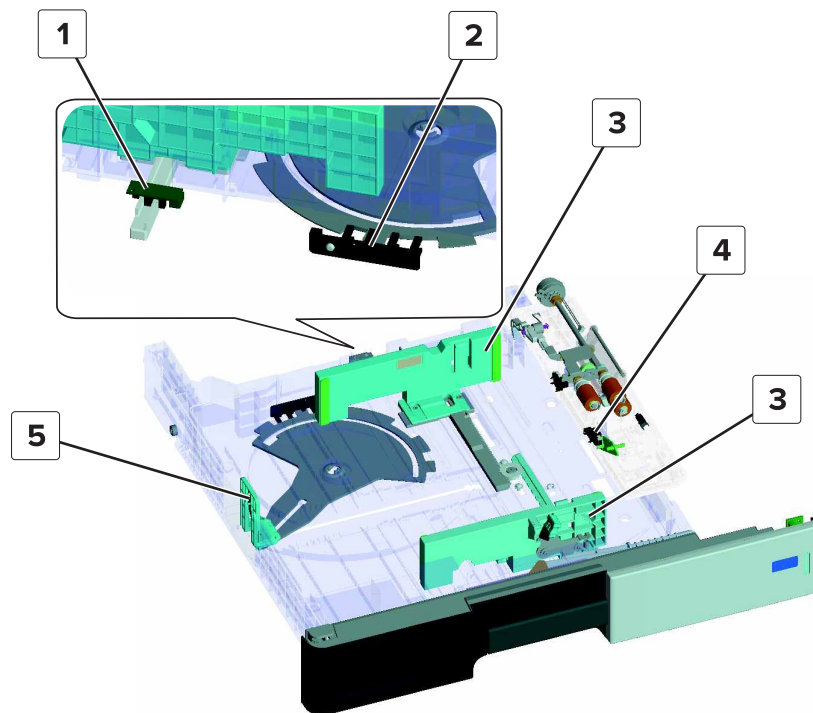


| # | Part |
|---|----------------------|
| 1 | Duplex section |
| 2 | Registration section |
| 3 | MPF section |
| 4 | Tray section |
| 5 | Print section |
| 6 | Exit section |

Tray section

Paper presence and size detection

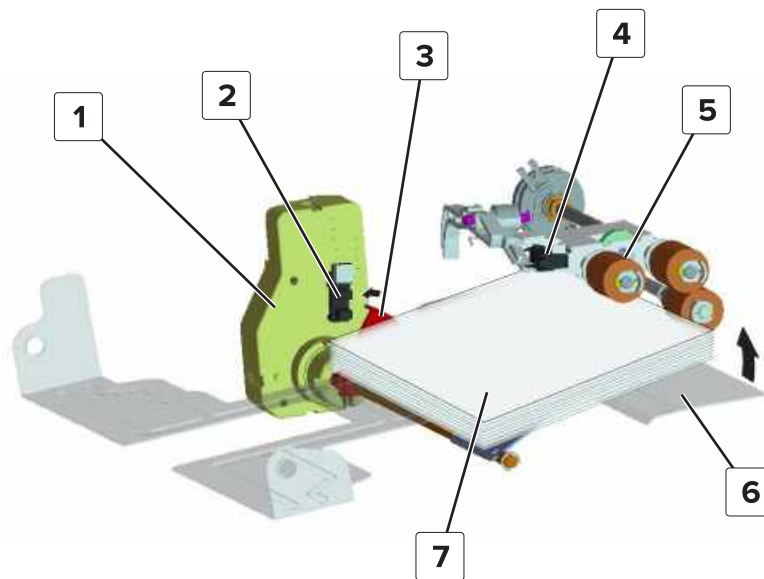
The sensor (tray empty) detects if the tray is empty. The positions of the guides determine the dimensions of the paper. The sensor (paper width) and sensor (paper length) detect the position of the guides.



| # | Part |
|---|--------------------------------|
| 1 | Sensor (tray paper width) |
| 2 | Sensor (tray paper length) |
| 3 | Tray insert paper width guides |
| 4 | Sensor (tray empty) |
| 5 | Tray insert paper length guide |

Paper lift

During feed, the lift plate raises the paper until the paper comes into contact with the pick roller. The sensor (lift plate level) detects if the pick roller is sufficiently engaged with the paper. The motor (lift) controls the movement of the lift plate. As the amount of paper lessens, the lift plate also continues to move up. When the tray is almost empty, the actuator triggers the sensor (near empty).



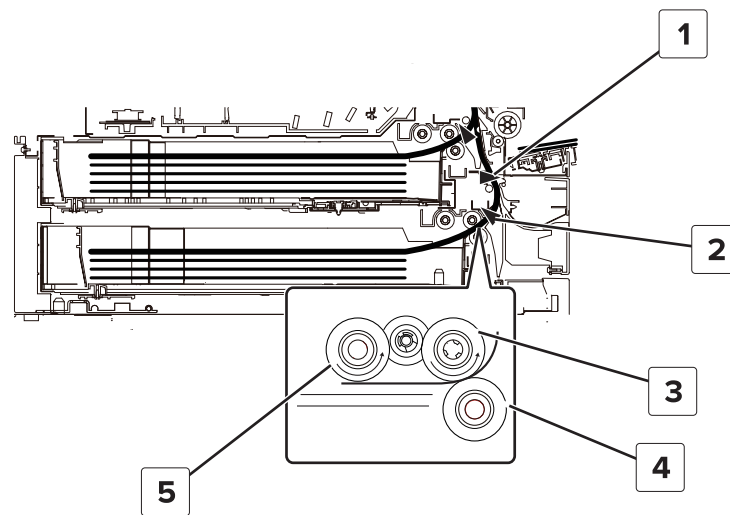
| # | Part |
|---|---------------------------|
| 1 | Motor (lift) |
| 2 | Sensor (near empty) |
| 3 | Actuator |
| 4 | Sensor (lift plate level) |
| 5 | Pick roller |
| 6 | Lift plate |
| 7 | Paper |

Paper feed

The pick roller pushes the topmost sheet to the feed roller. The separator roller makes sure that only one sheet is fed at a time.

For tray 1, the feed roller moves the paper directly to the registration section. For trays 2 to 4, paper is fed from the feed roller to the transport rollers before going into the registration section.

The motor (paper feed) controls the pick, feed, and separator rollers. The motor (transport) drives the roller that moves the paper upward to the registration section. The sensor (paper feed) and sensor (pass through) detect the position of the paper.



| # | Part |
|---|-----------------------|
| 1 | Sensor (pass through) |
| 2 | Sensor (paper feed) |
| 3 | Feed roller |
| 4 | Separator roller |
| 5 | Pick roller |

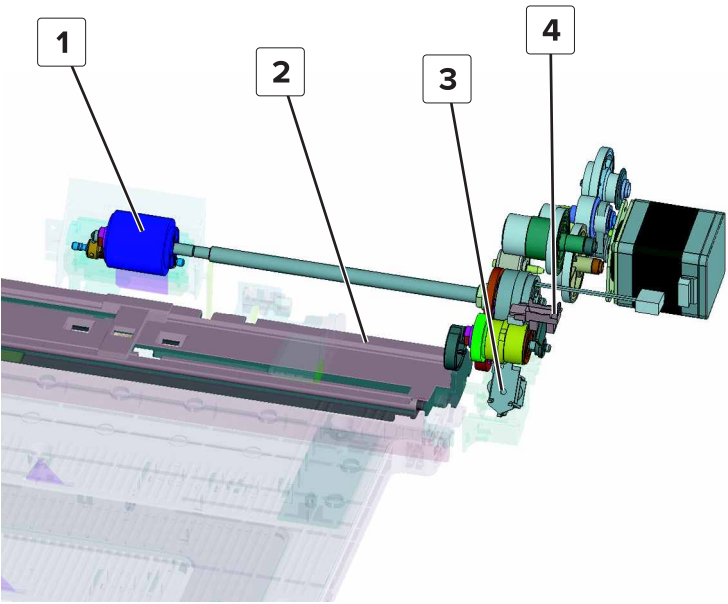
MPF section

Paper presence detection

The sensor (MPF empty) detects if the tray is empty.

Paper lift

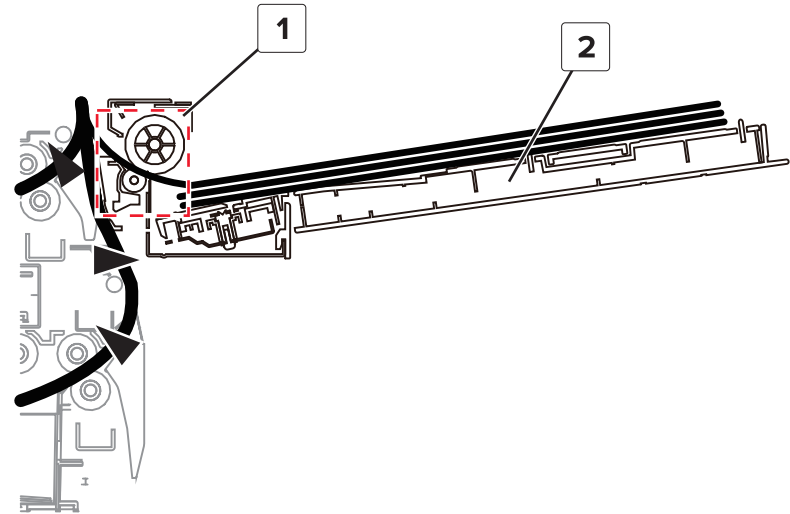
During feed, the lift plate pushes up to engage the paper with the pick roller. The movement of the lift plate is controlled by the MPF pick solenoid and is detected by the sensor (MPF lift plate).



| # | Part |
|---|-------------------------|
| 1 | MPF pick roller |
| 2 | Lift plate |
| 3 | MPF pick solenoid |
| 4 | Sensor (MPF lift plate) |

Paper feed

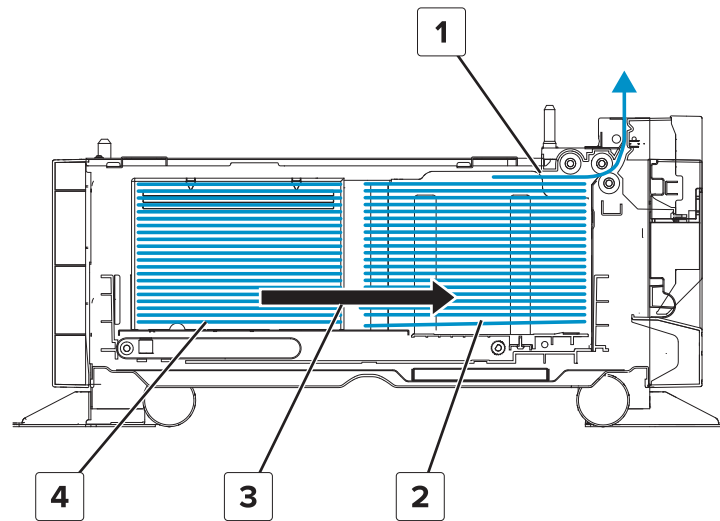
The MPF pick assembly moves the paper from the MPF tray to the registration section.



| # | Part |
|---|-------------------|
| 1 | MPF pick assembly |
| 2 | MPF tray |

2500-sheet tray section

Paper path

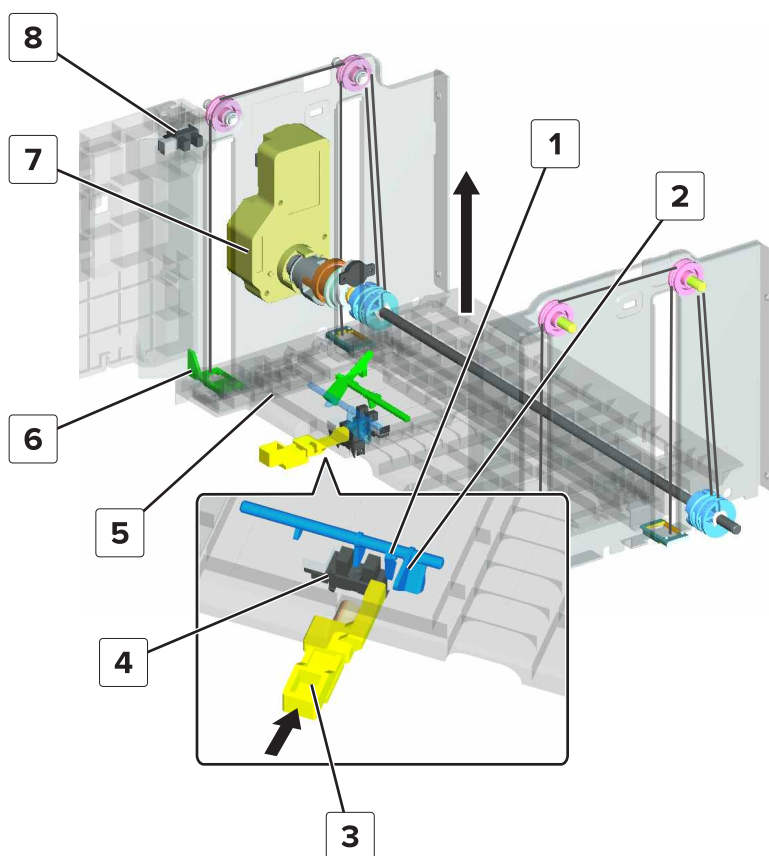


| # | Part |
|---|--|
| 1 | Paper feed from main tray |
| 2 | Main tray |
| 3 | Paper transfer movement from reserve tray to main tray |
| 4 | Reserve tray |

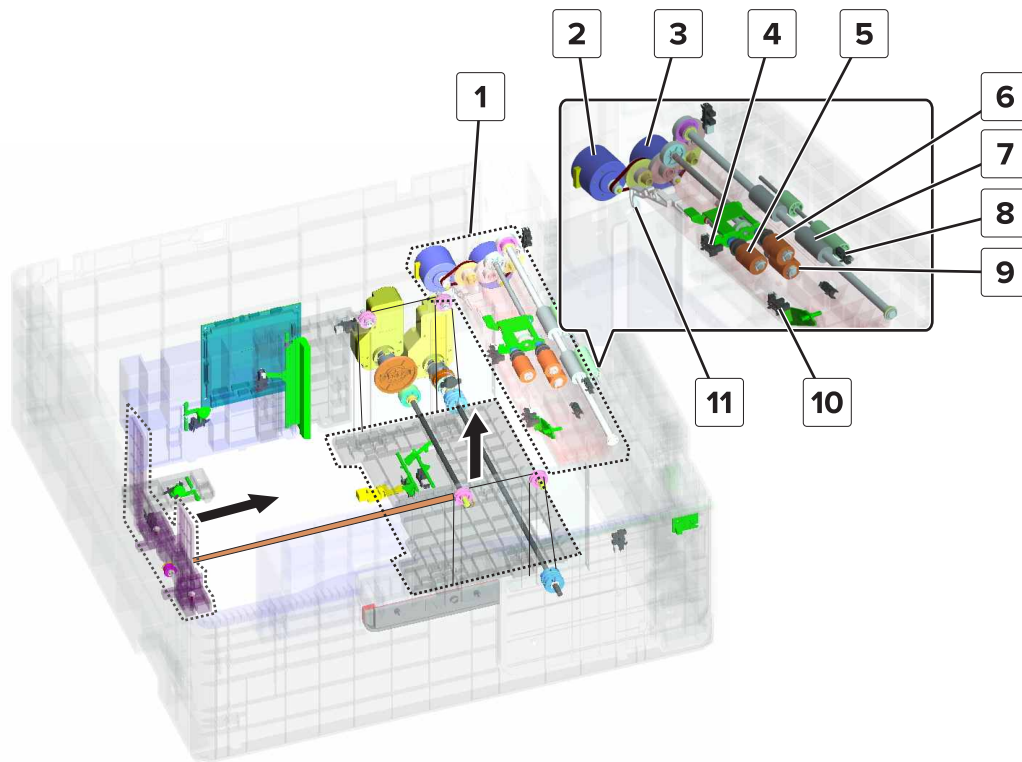
Paper feed mechanism

When the drawer is inserted, the lever is triggered to lower the pick roller. The motor (2500-sheet tray elevator) drives and raises the main tray until the paper is engaged with the pick roller. When the pick roller is engaged with the paper, the sensor (2500-sheet tray main tray elevator limit) detects the uppermost sheet.

The motor (2500-sheet tray feed) drives the pick, feed, and separator rollers to pick up and feed a sheet of paper into the vertical transport roller. The pick roller pushes the sheet to the feed roller and the separator roller makes sure that only one sheet is fed at a time. As paper passes through the transport roller, the sensor (2500-sheet tray transport) detects it. The motor (2500-sheet tray transport) then drives the transport roller to transport the paper into the printer.



| # | Part |
|---|---|
| 1 | Shifter stop detection actuator |
| 2 | Lower limit detection actuator |
| 3 | Transfer guide stop lever |
| 4 | Sensor (2500-sheet tray elevator home) |
| 5 | Main tray |
| 6 | Near empty detection actuator |
| 7 | Motor (2500-sheet tray elevator) |
| 8 | Sensor (2500-sheet tray main tray near empty) |

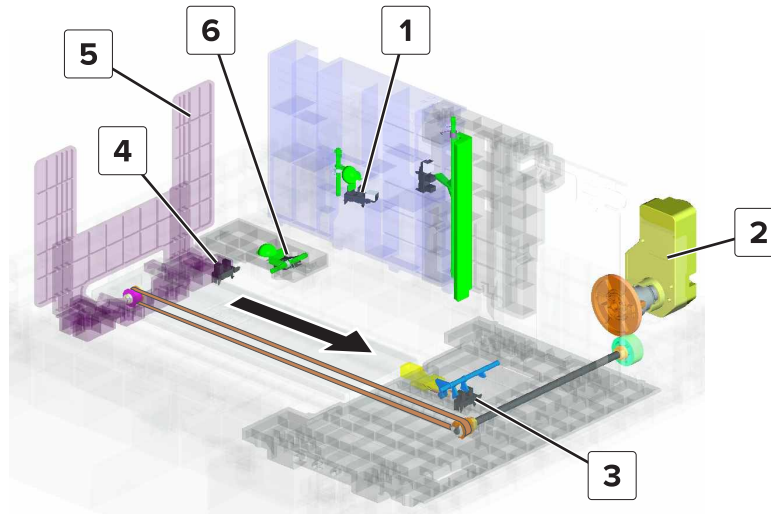


| # | Part |
|-----------|---|
| 1 | Paper feed section |
| 2 | Motor (2500-sheet tray feed) |
| 3 | Motor (2500-sheet tray transport) |
| 4 | Sensor (2500-sheet tray main tray elevator limit) |
| 5 | Pick roller |
| 6 | Feed roller |
| 7 | Transport roller |
| 8 | Sensor (2500-sheet tray transport) |
| 9 | Separator roller |
| 10 | Sensor (2500-sheet tray main tray paper empty, top) |
| 11 | Lever |

The main tray continues to move up as the amount of paper decreases. The near empty detection actuator triggers the sensor (2500-sheet tray main tray near empty) when the main tray is almost empty. When the sensor (2500-sheet tray main tray empty, top) detects an empty main tray, the motor (2500-sheet tray elevator) lowers the main tray. The sensor (2500-sheet tray elevator home) detects when the main tray is at its lowest position.

The sensor (2500-sheet tray reserve tray paper limit) and sensor (2500-sheet tray reserve tray paper empty) detect the amount of paper left on the reserve tray. If the main tray is empty while the reserve tray is loaded with paper, then the paper stack on the reserve tray is moved to the main tray. The motor (2500-sheet tray transfer guide) moves the transfer guide, pushing the paper stack into the main tray until the sensor (2500-sheet tray elevator home) is triggered. The motor (2500-sheet tray transfer guide) then drives the transfer guide to return to its home position.

If the reserve tray is empty when paper in the main tray runs out, then the main tray is not lowered. The main tray lowers only when the drawer is removed.

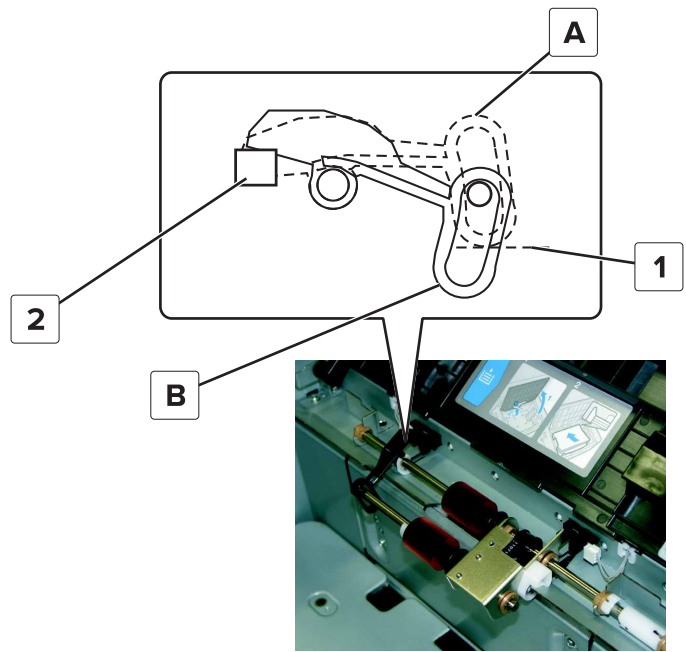


| # | Part |
|---|---|
| 1 | Sensor (2500-sheet tray reserve tray paper limit) |
| 2 | Motor (2500-sheet tray transfer guide) |
| 3 | Sensor (2500-sheet tray elevator home) |
| 4 | Sensor (2500-sheet tray transfer guide home) |
| 5 | Transfer guide |
| 6 | Sensor (2500-sheet tray reserve tray paper empty) |

3000-sheet tray section

Paper presence detection

The sensor (tray empty) detects if the tray is empty. The sensor remains covered when paper is in the tray. When the tray is empty, the actuator lowers to unblock the sensor.

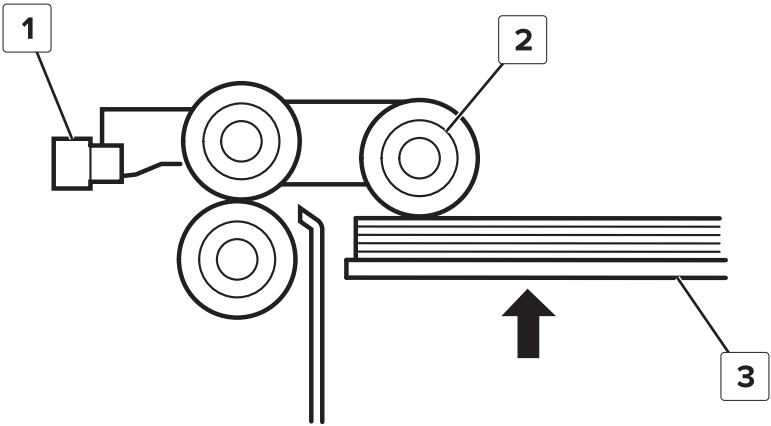


| # | Part |
|---|-----------------------------------|
| 1 | Paper |
| 2 | Sensor (tray empty) |
| A | Actuator position (with paper) |
| B | Actuator position (without paper) |

Paper lift

During feed, the elevator plate raises the paper until the paper comes into contact with the pick roller. The sensor (elevator level) detects if the pick roller is sufficiently engaged with the paper. The motor (elevator) controls the movement of the elevator plate.

As the amount of paper lessens, the elevator plate continues to move up. When the tray is almost empty, the sensors (paper low 1 and paper low 2) are unblocked. If the tray is full, then the sensor (paper low 1) is blocked and the sensor (paper low 2) is unblocked.



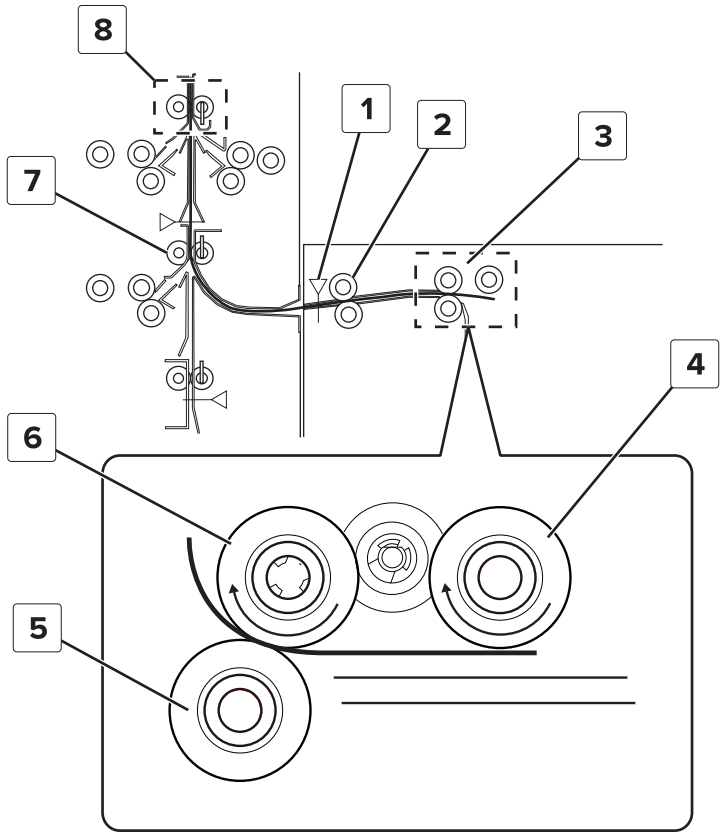
| # | Part |
|---|-------------------------|
| 1 | Sensor (elevador level) |
| 2 | Pick roller |
| 3 | Elevator plate |

Paper feed and transport

The pick roller pushes the topmost sheet to the feed roller. The separator roller makes sure that only one sheet is fed at a time.

The paper is fed from the pick assembly to the transport rollers before going to the registration section. For more information, see [“Registration section” on page 1209](#).

The motor (feed) controls the pick, feed, and separator rollers. The motor (transport) drives the transport roller to pass the paper to the tray 2 transport roller. The sensor (feed) detects when paper passes through the transport roller.



| # | Part |
|---|------------------|
| 1 | Sensor (feed) |
| 2 | Transport roller |
| 3 | Pick assembly |
| 4 | Pick roller |
| 5 | Separator roller |

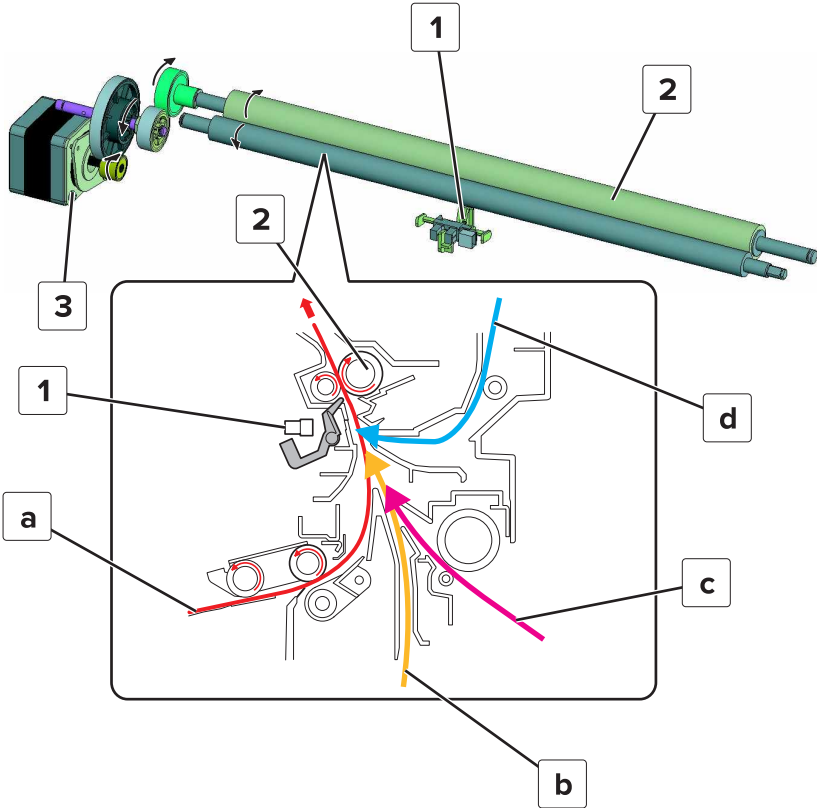
| # | Part |
|---|-------------------------|
| 6 | Feed roller |
| 7 | Tray 2 transport roller |
| 8 | Registration section |

Registration section

Depending on the print job, the registration section receives paper from the tray, MPF, or duplex section.

As paper enters the registration roller, the sensor (registration) detects its presence. Skew adjustments are made on the registration roller to align the leading edge of the paper.

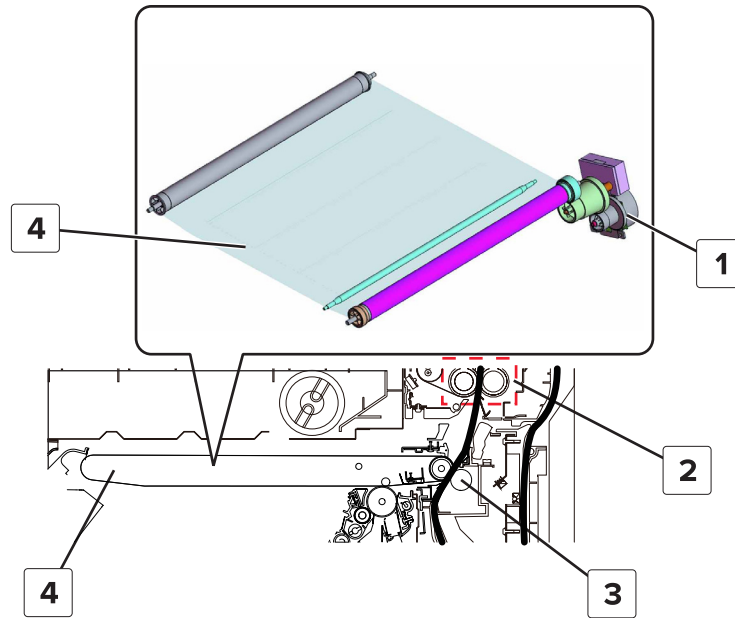
The motor (registration) drives the registration roller, passing the paper to the print section.



| # | Part |
|---|---|
| 1 | Sensor (registration) |
| 2 | Registration roller |
| 3 | Motor (registration) |
| a | Paper path from tray 1 |
| b | Paper path from trays 2–4 and 3000-sheet tray |
| c | Paper path from the MPF section |
| d | Paper path from the duplex section |

Print section

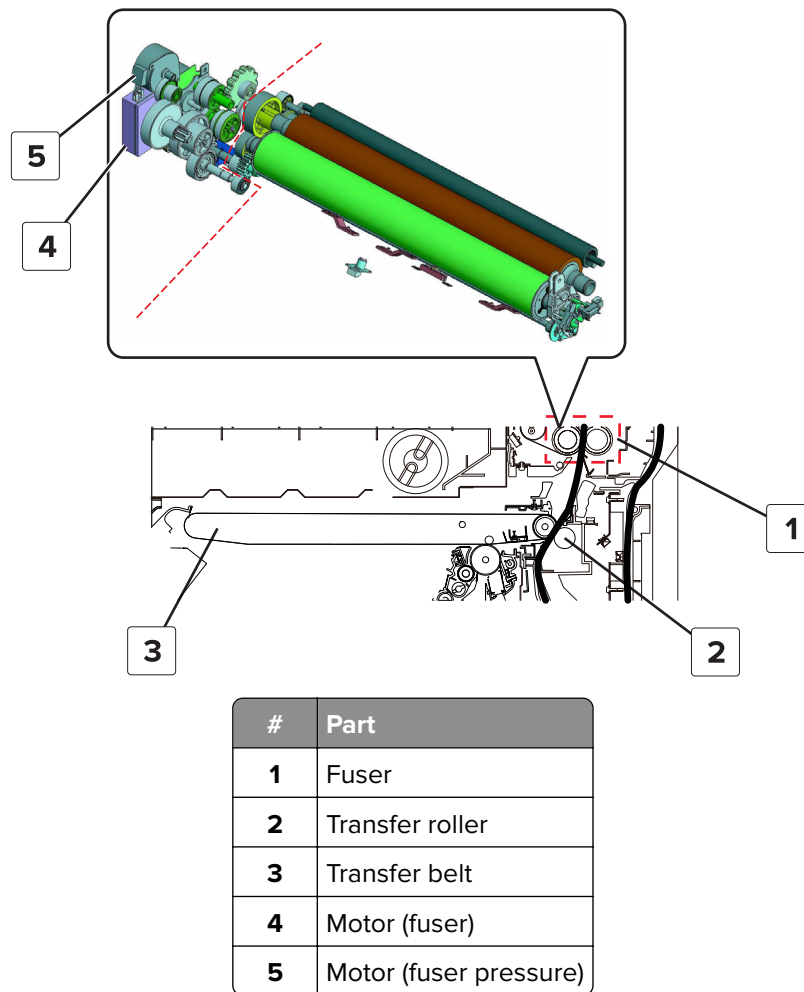
Toner from the transfer belt is transferred to the paper. For more information, see [“Second transfer” on page 1189](#). The rotation of the transfer belt and transfer roller is controlled by the motor (developer).



| # | Part |
|---|-------------------|
| 1 | Motor (developer) |
| 2 | Fuser |
| 3 | Transfer roller |
| 4 | Transfer belt |

After the second transfer, the paper is passed to the fuser. For more information, see [“Fuse” on page 1191](#).

The motor (fuser pressure) controls the pressure that is exerted on the paper. The motor (fuser) controls the movement of the paper from the fuser to the exit section.

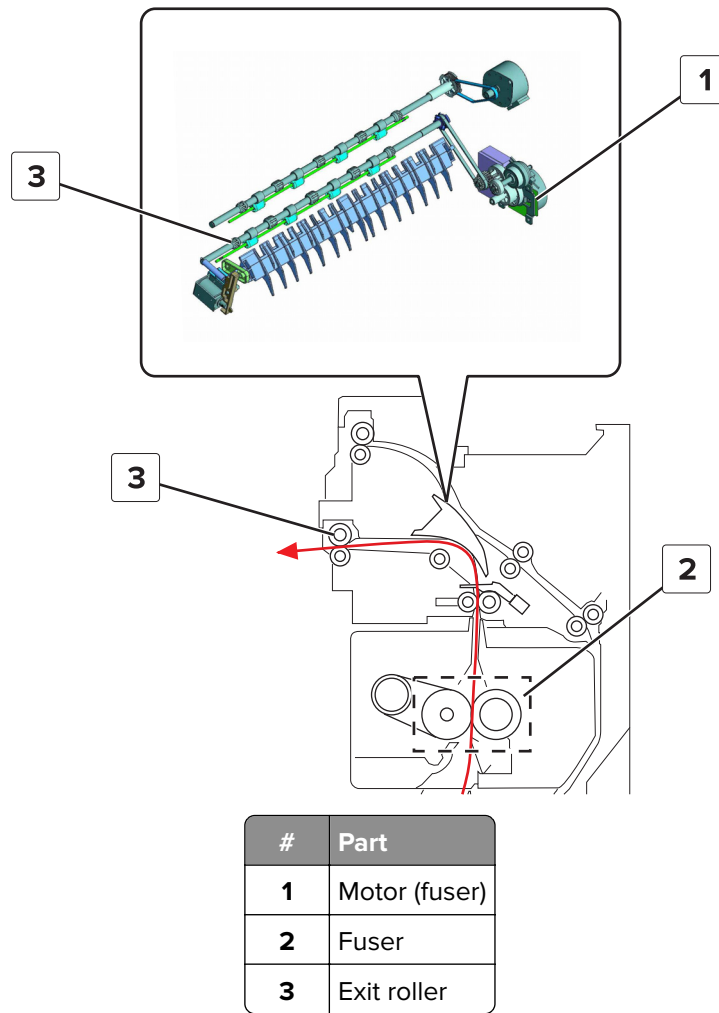


Exit section

Exit roller path

Paper moves from the fuser to the exit roller. The motor (fuser) drives the exit roller to push out the printed paper to the standard bin.

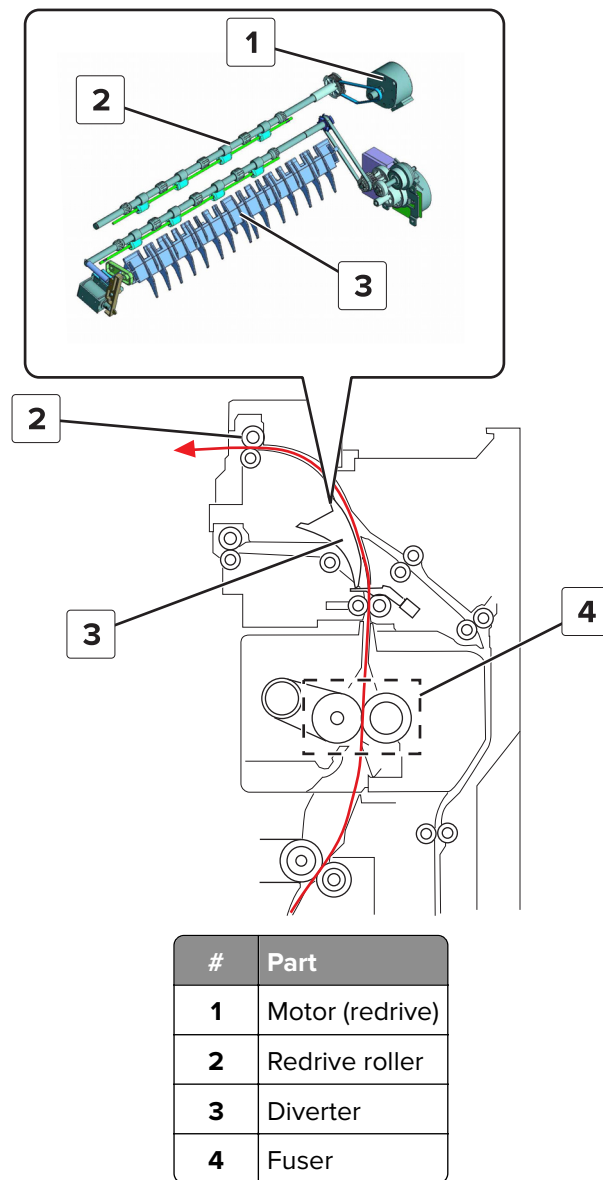
Note: For finishing and folding jobs, the printed paper also moves along the path of the exit roller.



Redrive roller path

If a paper transport is on the printer during a standard print job, then paper exits on top of the paper transport.

As paper moves up from the fuser, the diverter closes the path to the exit roller and opens the path to the redrive roller. The motor (redrive) controls the redrive roller, which exits the printed paper.



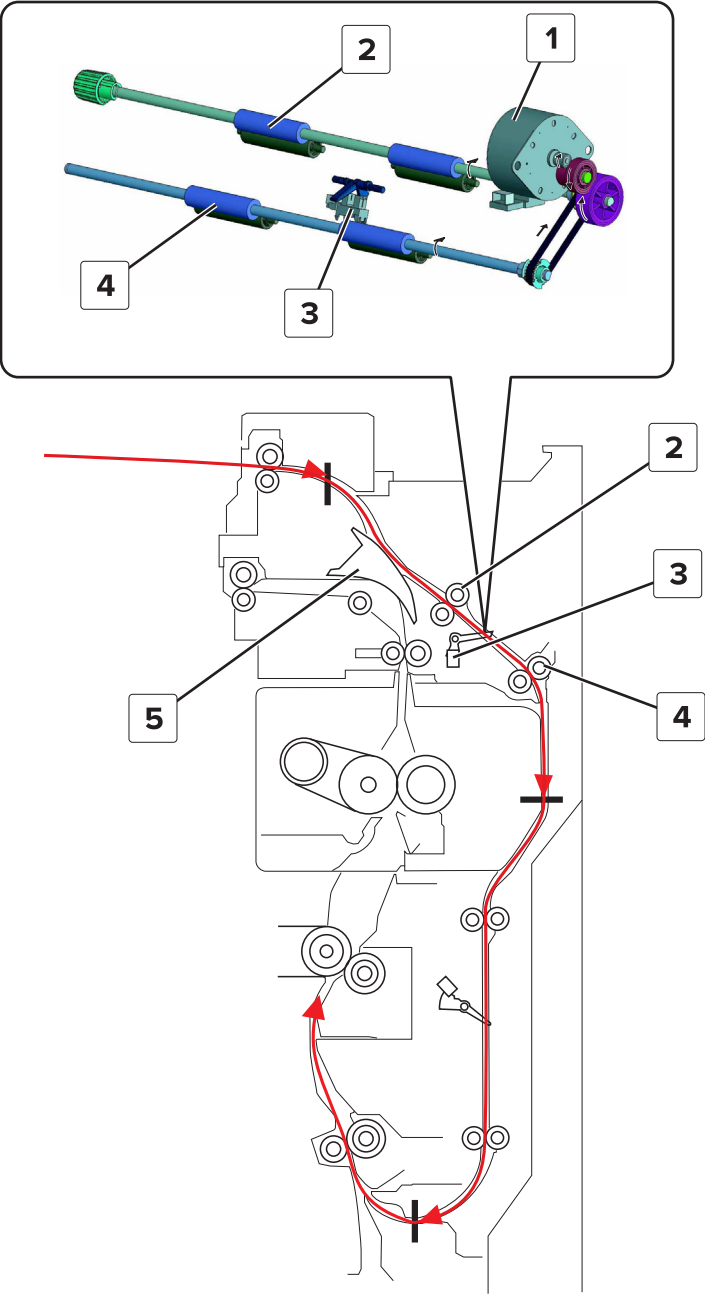
Duplex section

Upper duplex transport

For a duplex print job, the paper is fed back to print on the other side.

The redrive roller, which is driven by the motor (redrive), reverses its rotation to feed paper back to the printer. The path to the fuser section is closed by the diverter so that the paper moves along the duplex path.

As paper moves down passing the duplex entrance roller and the upper duplex transport roller, the sensor (duplex pass through 1) detects the position of the paper. The motor (duplex transport) drives the duplex entrance roller and upper duplex transport roller.



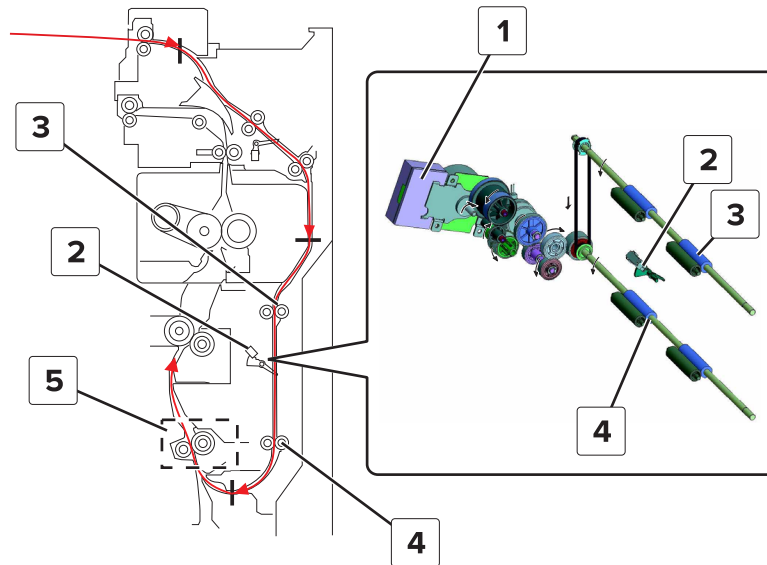
| # | Part |
|---|--------------------------------|
| 1 | Motor (redrive) |
| 2 | Duplex entrance roller |
| 3 | Sensor (duplex pass through 1) |
| 4 | Upper duplex transport roller |
| 5 | Diverter |

Lower duplex transport

The paper continues to move down to the lower duplex transport roller and duplex exit roller.

The sensor (duplex pass through 2) detects the position of the paper. The motor (transport) drives the lower duplex transport roller and duplex exit roller.

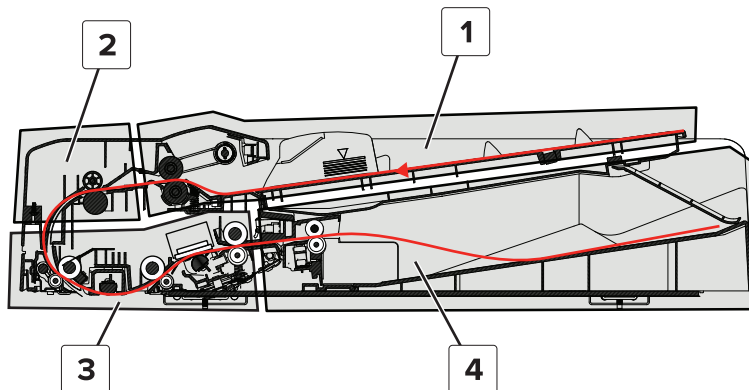
The paper then travels to the registration section to be printed on its other side. For more information, see [“Registration section” on page 1209](#).



| # | Part |
|---|--------------------------------|
| 1 | Motor (transport) |
| 2 | Sensor (duplex pass through 2) |
| 3 | Lower duplex transport roller |
| 4 | Duplex exit roller |
| 5 | Registration section |

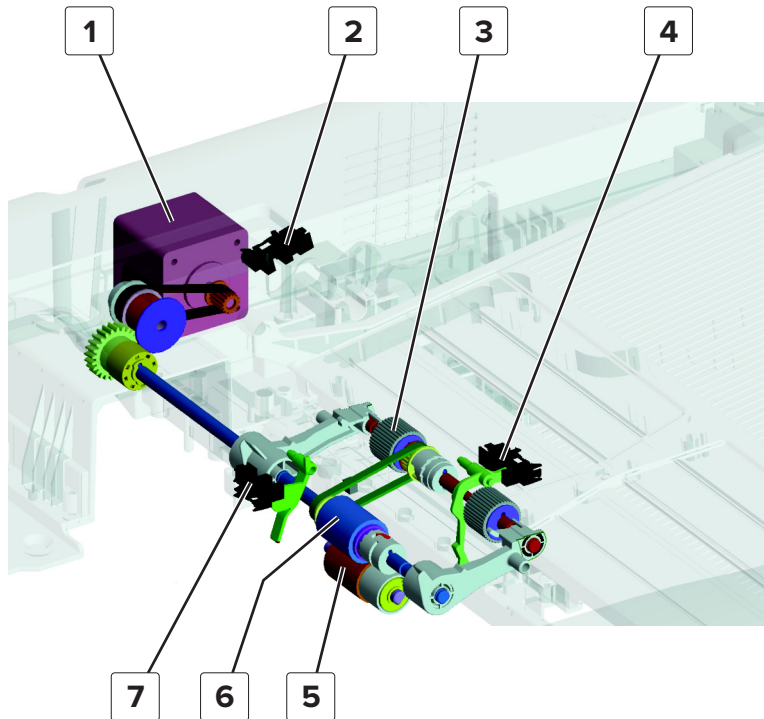
ADF operation

ADF tray section configuration and paper path



| # | Section |
|---|-----------------------------------|
| 1 | ADF document feed section |
| 2 | ADF document registration section |
| 3 | ADF document scanning section |
| 4 | ADF document exit section |

ADF document feed



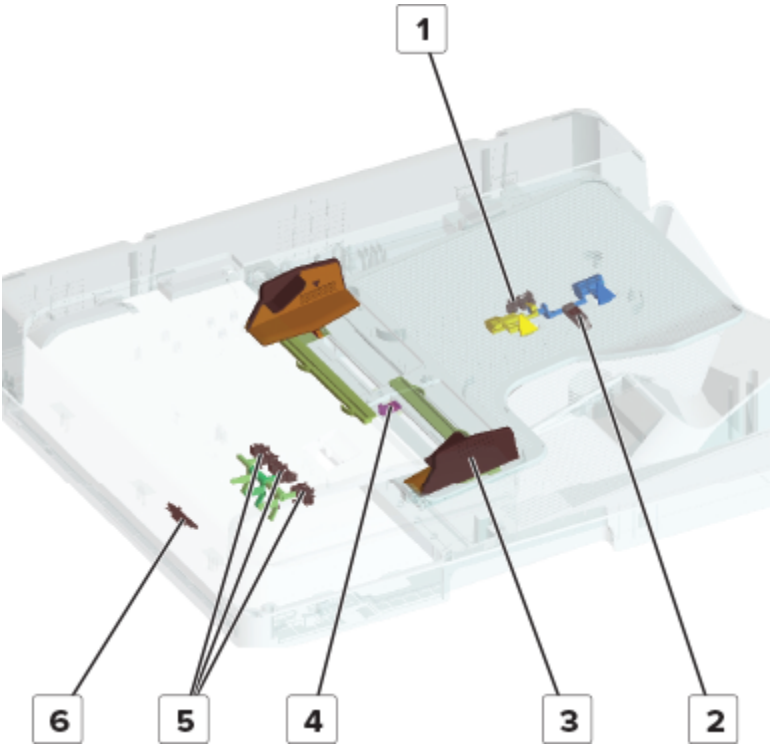
| # | Part |
|---|----------------------------------|
| 1 | Motor (ADF feed) |
| 2 | Sensor (upper door) |
| 3 | ADF pick roller |
| 4 | Sensor (ADF paper empty) |
| 5 | ADF separation roller |
| 6 | ADF feed roller |
| 7 | Sensor (ADF document separation) |

The sensor (ADF paper empty) detects the document when the leading edge pushes the actuator and unblocks the sensor. When a copy job is initiated, the motor (ADF feed) rotates forward to lower the ADF pick roller to the feed position. The document stopper is unlocked when the swing arm lowers and the document is fed in. When all pages are fed in, the sensor (ADF paper empty) detects that the ADF tray is empty.

After feeding a document, the motor (ADF feed) rotates backward to raise the pick roller to its home position. The ADF pick roller is fixed at the raised position by a torque limiter of the paper drive section. The document stopper lowers when the swing arm is raised to the standby position.

The document is transported into the document registration section by the ADF pick roller and ADF feed roller after the feeding sequence.

ADF document size detection

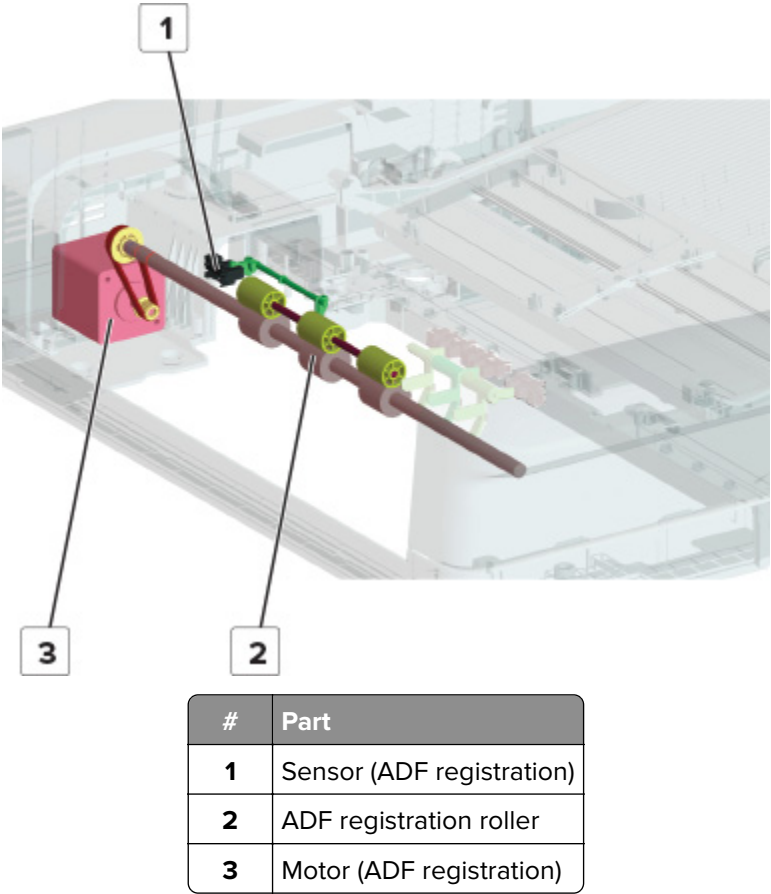


| # | Part |
|---|--|
| 1 | Sensor (ADF paper length 1) |
| 2 | Sensor (ADF paper length 2) |
| 3 | Paper width guide |
| 4 | Sensor (ADF paper width) |
| 5 | Sensor (mixed paper width 1) Sensor (mixed paper width 2) Sensor (mixed paper width 3) |
| 6 | Sensor (document reading) |

The sensor (ADF paper width) detects the width of the document. A variable resistor is incorporated to the sensor, and the resistance value varies when adjusting the paper width guide. The two sensors (ADF paper length 1 and ADF paper length 2) detect the length of the document. If no document is loaded into the ADF tray, the sensor (ADF paper length 1) is blocked. If a document is loaded and only the ADF paper length actuator 1 is triggered, then the sensor (ADF paper length 1) is unblocked. If the ADF paper length actuators 1 and 2 are triggered, then the ADF paper length actuator 2 blocks the sensor (ADF paper length 1). The sensor (ADF paper length 2) detects that the ADF paper length actuator 1 is triggered. The results made by the width and length sensors determine the document size.

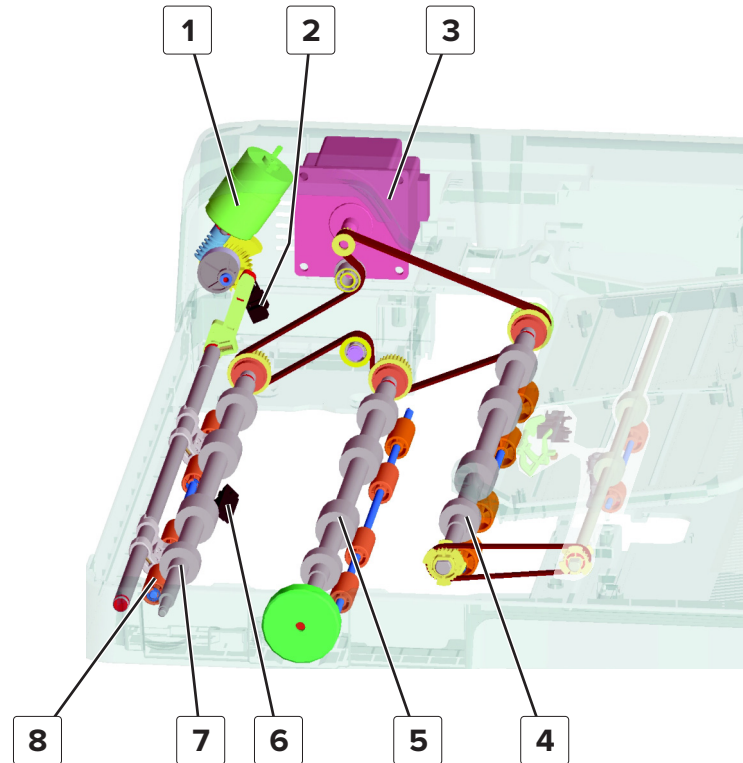
In mixed paper mode, the sensors (mixed paper width 1, 2, and 3) detect the width of the paper. The length of the paper is determined based on the period of time during which the sensor (document reading) remains activated as the paper passes.

ADF document registration



When the document exits the document feed section, a loop is formed which corrects the skew as the document passes between the ADF feed roller and ADF registration roller. The sensor (ADF registration) detects the leading edge of the document while the ADF feed roller continues to rotate to feed the document. The motor (ADF registration) drives the ADF registration roller to receive the document. The motor (ADF registration) continues to drive the ADF registration roller to transport the document to the scanning section.

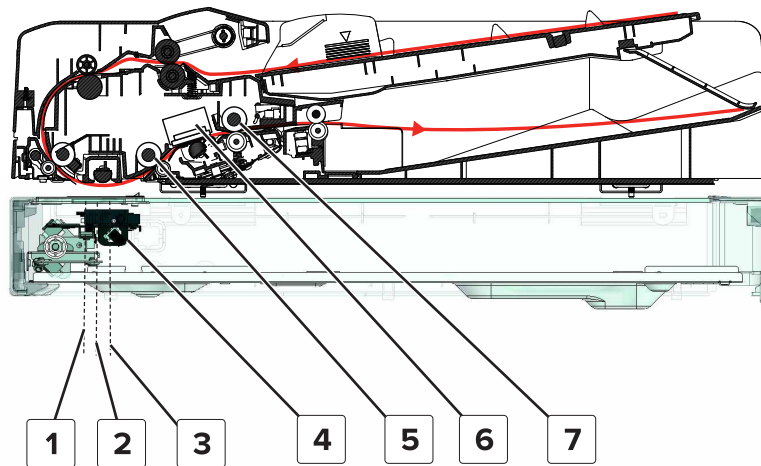
ADF document scanning



| # | Part |
|---|---------------------------------|
| 1 | Motor (ADF scan roller release) |
| 2 | Sensor (scan roller position) |
| 3 | Motor (ADF scan) |
| 4 | ADF scan roller 3 |
| 5 | ADF scan roller 2 |
| 6 | Sensor (ADF scan) |
| 7 | ADF scan roller 1 |
| 8 | ADF scan idle roll |

The motor (ADF scan) drives the ADF scan rollers 1, 2, and 3 to transport the document into the document scanning section. The sensor (ADF scan) detects the document after the leading edge passes through the ADF scan roller 1.

The ADF scan roller 1 pushes the document until the trailing edge passes through it. This causes an uneven reading of the image. The motor (ADF scan roller release) releases the ADF scan idle roll before the trailing edge of the document goes out of the roller nip. The paper velocity is maintained as the ADF scan rollers transport the document to the scanning position.

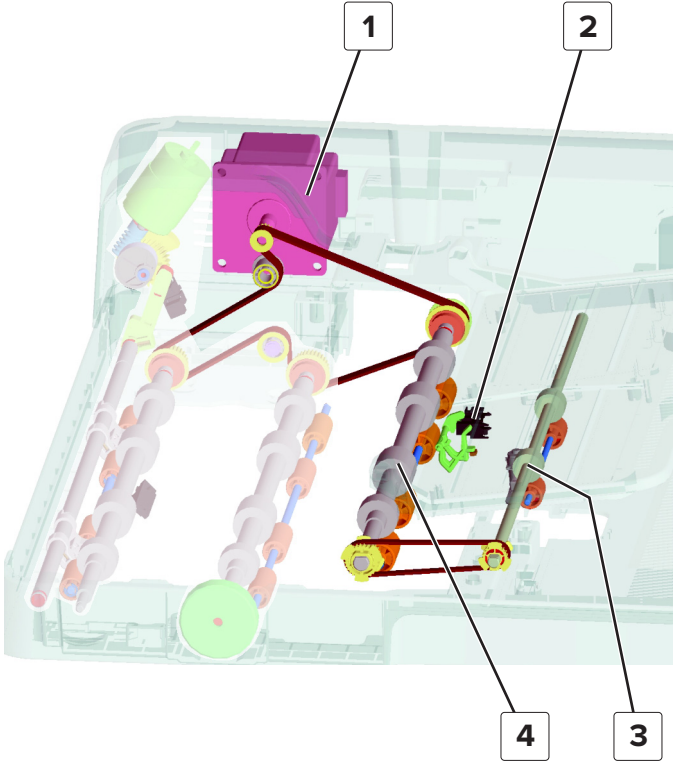


| # | Part |
|---|---------------------------|
| 1 | Document reading position |
| 2 | Document home position |
| 3 | Document shading position |
| 4 | Scanner lamp |
| 5 | ADF scan roller 2 |
| 6 | CIS assembly |
| 7 | ADF scan roller 3 |

The scanner lamp moves to the document reading position and scans the document through the ADF duplex scan glass on the scanner flatbed. The front side of the document is scanned as it passes over the scanner lamp. The ADF scan roller 2 receives and transports the document through the CIS assembly. The CIS assembly scans the back side of the paper in duplex scan mode.

After the scan job, the ADF scan roller 3 transports the document to the ADF exit roller.

ADF document exit

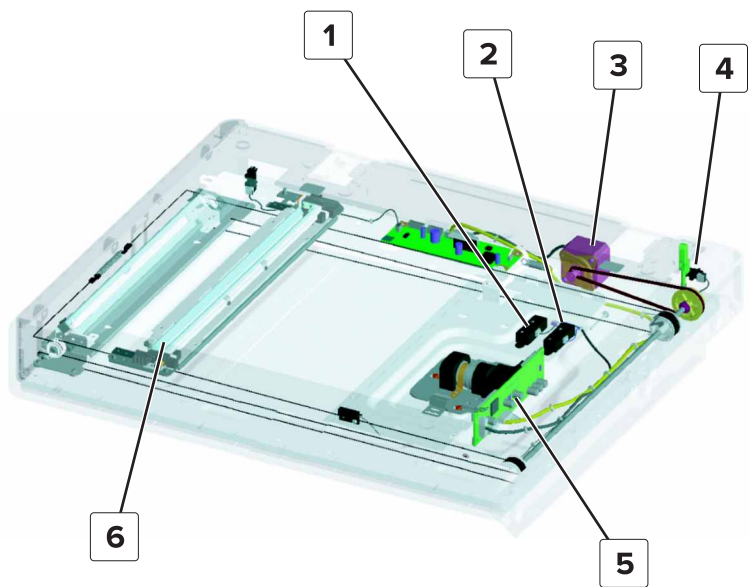


| # | Part |
|---|-------------------|
| 1 | Motor (ADF scan) |
| 2 | Sensor (ADF exit) |
| 3 | ADF exit roller |
| 4 | ADF scan roller 3 |

The motor (ADF scan) drives the ADF scan roller 3 and ADF exit roller to feed the document out of the document reading section and into the bin. The motor (ADF scan) is turned off after a few seconds when the trailing edge of the document has deactivated the sensor (ADF exit).

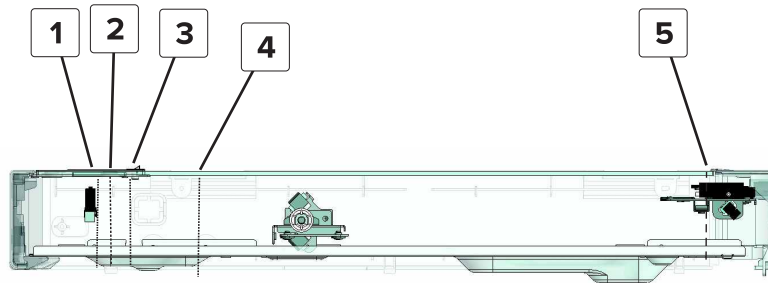
Flatbed scanner operation

Flatbed scanner section configuration



| # | Part |
|---|---------------------------------|
| 1 | Sensor (scanner paper length 1) |
| 2 | Sensor (scanner paper length 2) |
| 3 | Motor (scanner drive) |
| 4 | Sensor (ADF open) |
| 5 | Scanner CCD lens assembly |
| 6 | Scanner lamp |

Flatbed scanning



| # | Part |
|---|----------------------------------|
| 1 | Scanner home position |
| 2 | Scan start position |
| 3 | Document shading position |
| 4 | Document size detection position |
| 5 | Trailing edge of the image |

The motor (scanner drive) drives the scanner lamp to move to the home position when the printer is turned on.

When the ADF is opened and a document is placed on the scanner flatbed, the sensor (ADF open) detects that the ADF is open. The scanner lamp moves to the document size detection position. The sensors (scanner paper length 1 and 2) detect the length of the document. The scanner CCD lens assembly detects the width of the document. The scanner lamp then moves and stops at the scan start position.

When the start key is pressed, the scanner lamp moves from the scan start position to the leading edge of the document. The scanner lamp starts scanning the document from the leading edge and finishes at the trailing edge.

The LED turns off when scanning is complete. The scanner lamp moves from the position on the trailing edge of the document to the home position, and then to the document size detection position.

Acronyms

Acronyms

| | |
|-------|---|
| ASIC | Application-specific integrated circuit |
| BLDC | Brushless DC motor |
| BOR | Black only retract |
| C | Cyan |
| CCD | Charge coupled device |
| CCP | Carbonless copy paper |
| CRC | Cyclic redundancy check |
| CSU | Customer setup |
| CTLS | Capacitance toner level sensing |
| DIMM | Dual inline memory module |
| DRAM | Dynamic random access memory |
| EDO | Enhanced data out |
| EP | Electrophotography |
| EPROM | Erasable programmable read-only memory |
| ESD | Electrostatic discharge |
| FFC | Flat flexible cable |
| FRU | Field replaceable unit |
| GB | Gigabyte |
| HVPS | High voltage power supply |
| K | Black |
| LCD | Liquid crystal display |
| LDAP | Lightweight directory access protocol |
| LED | Light-emitting diode |
| LVPS | Low voltage power supply |
| M | Magenta |
| MB | Megabyte |
| MFP | Multi-function product |
| MPF | Multipurpose feeder |
| MROM | Masked read-only memory |
| MS | Microswitch |
| NVM | Nonvolatile memory |
| NVRAM | Nonvolatile random access memory |

| | |
|------------|---------------------------------------|
| OEM | Original equipment manufacturer |
| OPT | Optical sensor |
| PC | Photoconductor |
| pel, pixel | Picture element |
| POR | Power-on reset |
| POST | Power-on self test |
| PSD | Position sensing device |
| PWM | Pulse width modulation |
| RIP | Raster imaging processor |
| ROM | Read-only memory |
| SDRAM | Synchronous dual random access memory |
| SIMM | Single inline memory module |
| SRAM | Static random access memory |
| TPS | Toner patch sensing |
| UPR | Used parts return |
| V ac | Volts alternating current |
| V dc | Volts direct current |
| VTB | Vacuum transport belt |
| Y | Yellow |

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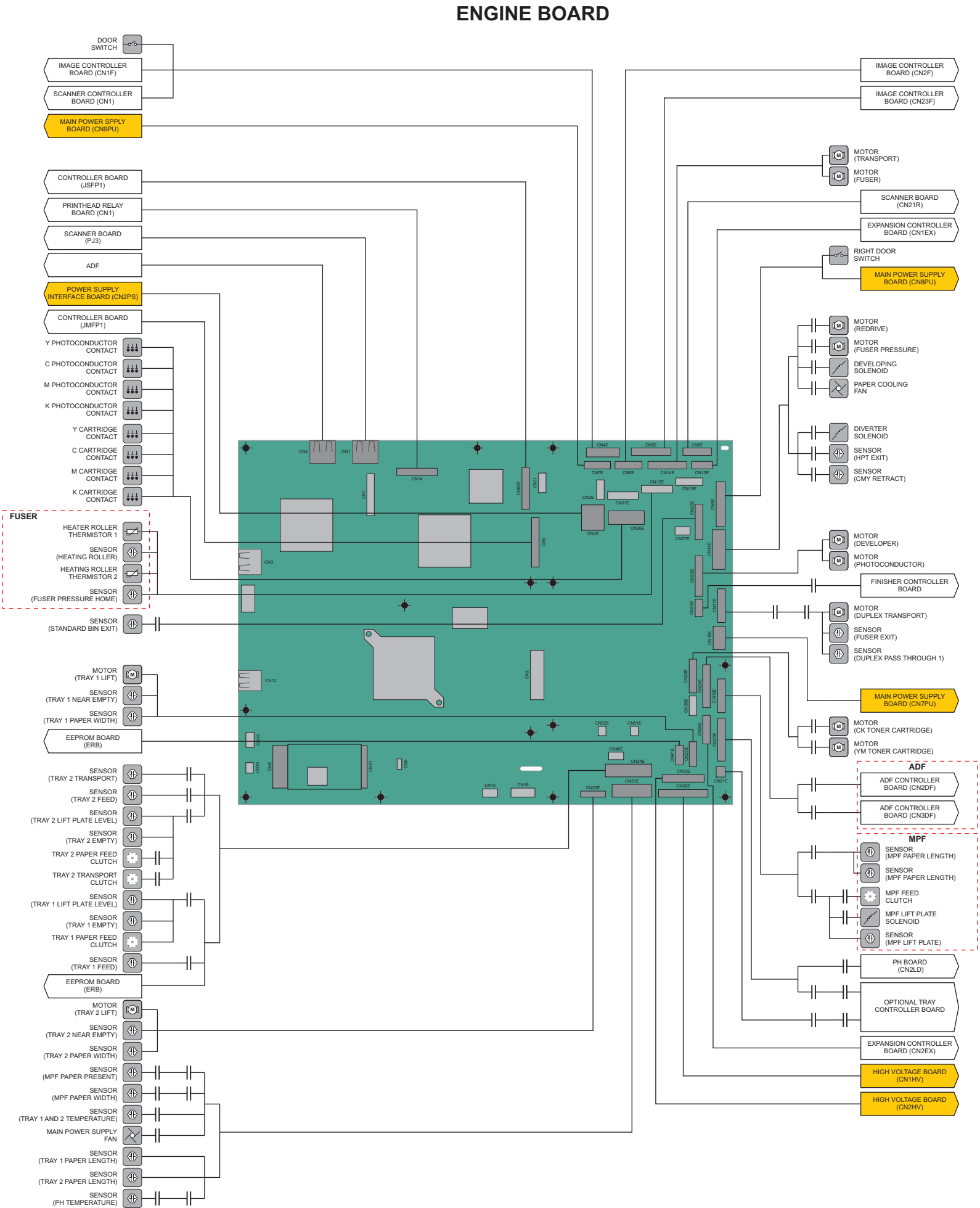
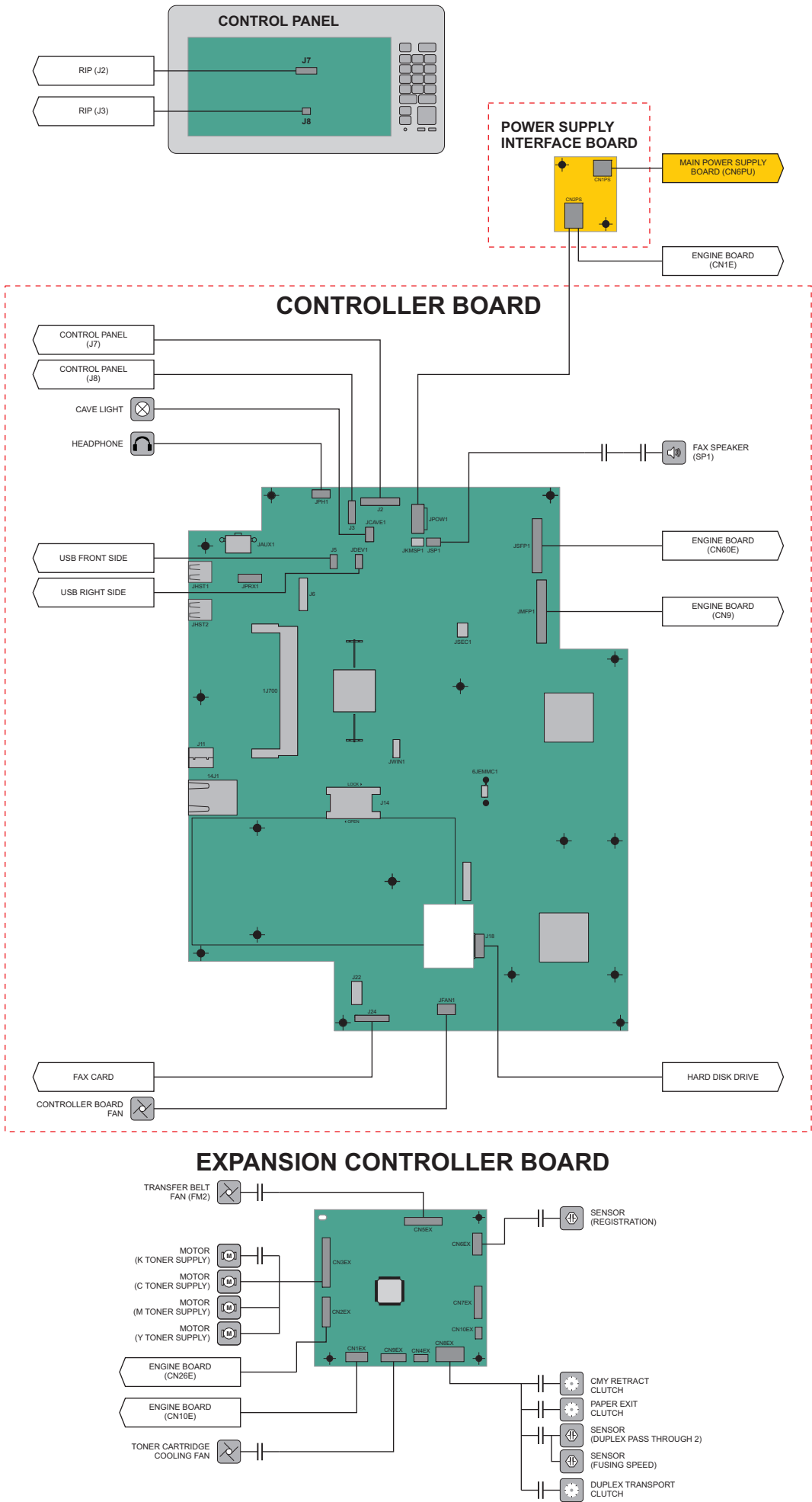
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CX921 BOARD CONNECTIONS
WIRING DIAGRAM



CX921 BOARD CONNECTIONS

WIRING DIAGRAM

ADF CONTROLLER BOARD

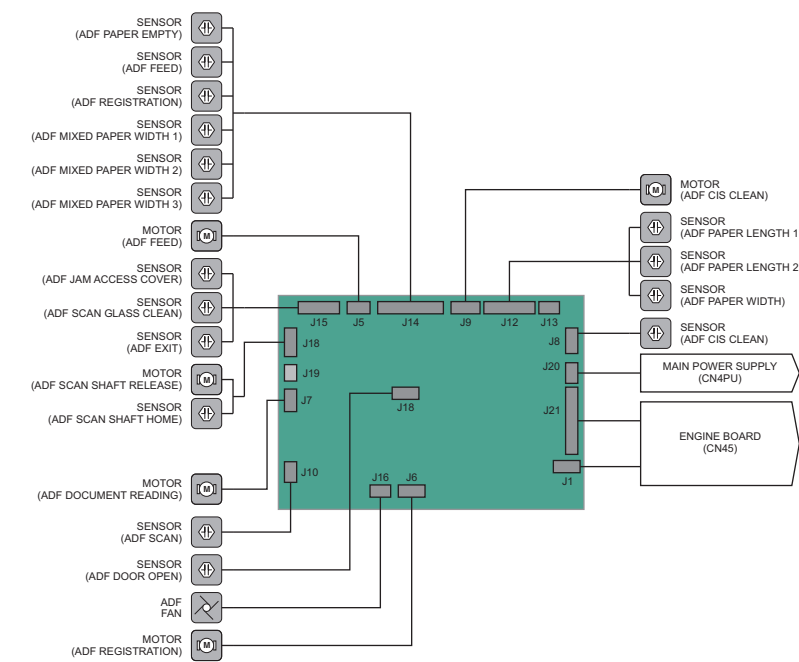
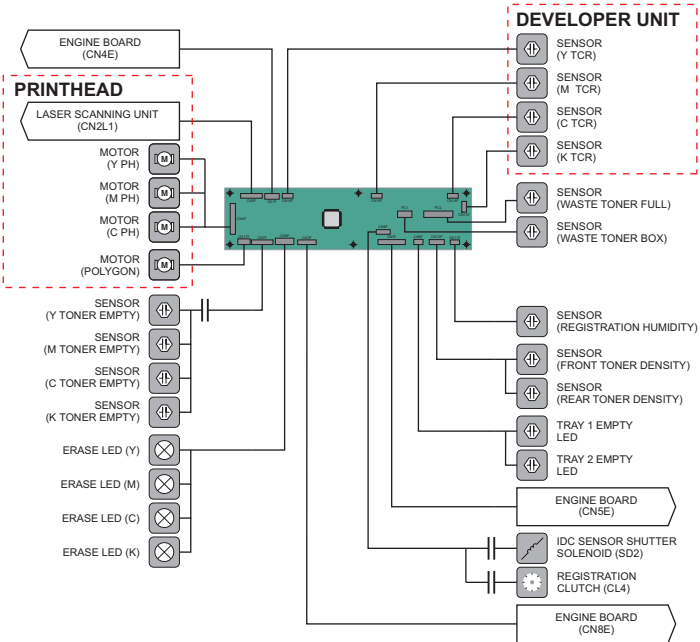
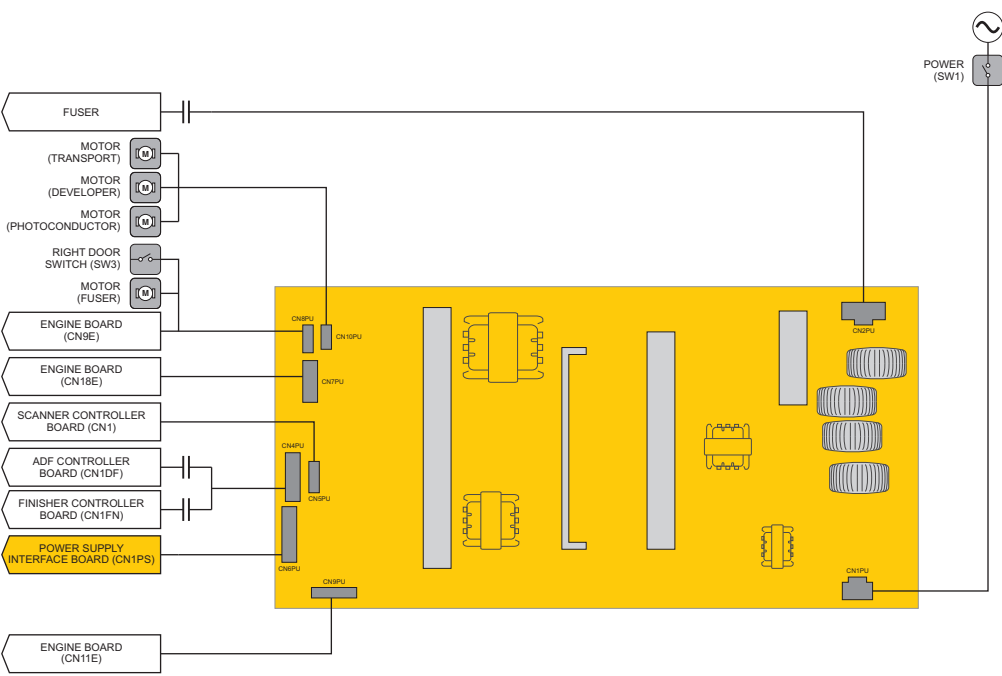


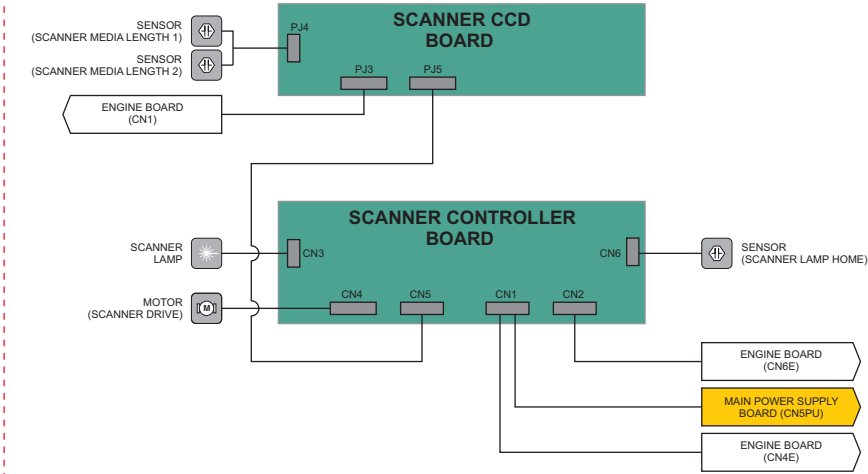
IMAGE CONTROLLER BOARD



MAIN POWER SUPPLY BOARD



FLATBED



HIGH VOLTAGE BOARD

