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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 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. The printer has a non-serviceable printhead assembly that contains a laser with the following specifications:

Class: IIIb (3b) AlGaInP

Nominal output power (milliwatts): 15

Wavelength (nanometers): 650–670

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. 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. L'imprimante dispose d'un ensemble de têtes d'impression non réparable contenant un laser doté des caractéristiques suivantes:

Class: IIIb (3b) AlGaInP

Nominal output power (milliwatts): 15

Wavelength (nanometers): 650–670

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. 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. El conjunto de cabezal de impresión de la impresora no se puede reparar y contiene un láser con las siguientes especificaciones:

Class: IIIb (3b) AlGaInP

Nominal output power (milliwatts): 15

Wavelength (nanometers): 650–670

Laser-hinweis

Der Drucker wurde in den USA zertifiziert und entspricht den Anforderungen der Vorschriften DHHS21CFR KapitelI für Laserprodukte der KlasseI(1), andernorts ist er als Laserprodukt der KlasseI zertifiziert, das den Anforderungen von IEC60825-1 entspricht: 2014.

Laserprodukte der KlasseI werden nicht als gefährlich betrachtet. 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 KlasseI überschreitet. Der Drucker verfügt über eine Druckkopfeinheit, die nicht gewartet werden kann und mit einem Laser mit den folgenden Spezifikationen ausgestattet ist.

Class: IIIb (3b) AlGaInP

Nominal output power (milliwatts): 15

Wavelength (nanometers): 650–670

Avvertenza 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. 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. La stampante è dotata di un gruppo testina di stampa non riparabile che contiene un laser con le seguenti specifiche:

Classe: IIIb (3b) AlGaInP

Potenza di uscita nominale (milliwatt): 15

Lunghezza d'onda (nanometri): 650–670







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—MOVING PARTS:** Indicates a risk of laceration or abrasion injuries from rotating parts.







Conventions

Remarque: Une *Remarque* fournit des informations pouvant vous être utiles.

Avertissement: Un *Avertissement* signale un danger susceptible d'endommager le logiciel ou le matériel.

ATTENTION: La mention *Attention* vous signale un risque de blessure corporelle.

Il existe différentes mises en garde:

-  **ATTENTION ! DOMMAGE POTENTIEL :** Signale un risque de blessure.
-  **ATTENTION ! RISQUE D'ÉLECTROCUTION :** Signale un risque d'électrocution.
-  **ATTENTION ! SURFACE CHAUDE :** Signale un risque de brûlure de contact.
-  **ATTENTION ! RISQUE DE BASCULEMENT :** Signale un risque d'écrasement.
-  **ATTENTION ! RISQUE DE PINCEMENT :** Signale un risque de pincement entre des pièces mobiles.
-  **ATTENTION ! PIÈCES MOBILES :** Signale un risque de coupures ou de frottements à cause des pièces rotatives.







Convenciones

Nota: Las *notas* señalan información que puede serle útil.

Aviso: Las *advertencias* indican algo que podría dañar el software o el hardware del producto.

PRECAUCIÓN: Las *precauciones* indican una situación de posible peligro que puede implicar lesiones para el usuario.

Estos son los tipos de avisos de precaución que existen:

-  **PRECAUCIÓN—RIESGO DE LESIONES:** Indica que existe riesgo de lesiones.
-  **PRECAUCIÓN—RIESGO DE DESCARGA:** Indica que existe riesgo de descarga eléctrica.
-  **PRECAUCIÓN—SUPERFICIE CALIENTE:** Indica que existe riesgo de sufrir quemaduras por contacto.
-  **PRECAUCIÓN—RIESGO DE CAÍDA:** Indica que existe peligro de aplastamiento.
-  **PRECAUCIÓN—RIESGO DE DESCARGA ELÉCTRICA:** Existe riesgo de atrapamiento entre las piezas en movimiento.
-  **PRECAUCIÓN—PARTES MÓVILES:** Indica que existe riesgo de lesiones por laceración o abrasión causadas por piezas giratorias.







Konventionen

Hinweis: Ein *Hinweis* enthält nützliche Informationen.

Warnung: Durch eine *Warnung* werden Sie auf einen Umstand hingewiesen, durch den die Produkthardware oder -software beschädigt werden könnte.

VORSICHT: *Vorsicht* weist auf eine mögliche gefährliche Situation hin, die ein Verletzungsrisiko birgt.

Verschiedene Vorsichtshinweise:

-  **VORSICHT – VERLETZUNGSGEFAHR:** Weist auf ein Verletzungsrisiko hin.
-  **VORSICHT – STROMSCHLAGGEFAHR:** Weist auf das Risiko eines elektrischen Schlags hin.
-  **VORSICHT – HEISS:** Weist auf das Risiko von Verbrennungen bei Berührung hin.
-  **VORSICHT – KIPPGEFAHR:** Weist auf Quetschgefahr hin.
-  **VORSICHT – QUETSCHGEFAHR:** Weist auf das Risiko hin, zwischen beweglichen Komponenten eingequetscht zu werden.
-  **VORSICHT – BEWEGLICHE TEILE:** Weist auf das Risiko von Verletzungen und Abschürfungen durch sich drehende Teile hin.







Convenzioni

Nota: Una *nota* identifica informazioni che potrebbero essere di aiuto.








Avvertenza: Un messaggio di *avvertenza* segnala qualcosa che potrebbe danneggiare l'hardware o il software del prodotto.

ATTENZIONE: Un messaggio di *attenzione* segnala una situazione potenzialmente pericolosa che potrebbe causare lesioni all'utente.

I diversi tipi di messaggi di attenzione sono:





-  **ATTENZIONE – PERICOLO DI LESIONI:** Indica il rischio di ferirsi.
-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** Indica il rischio di scosse elettriche.
-  **ATTENZIONE – SUPERFICIE SURRISCALDATA:**Indica il rischio di bruciarsi al contatto.
-  **ATTENZIONE – PERICOLO DI RIBALTAMENTO:** Indica il pericolo di essere schiacciati.
-  **ATTENZIONE – PERICOLO DI SCHIACCIAMENTO:** Indica il rischio di intrappolamento tra parti in movimento.
-  **ATTENZIONE – PARTI MOBILI:** Indica il rischio di lesioni da lacerazione o abrasione dovute a parti rotanti.

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 on the product, 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.
-  **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 Xerox 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-Xerox surge protection devices may result in a risk of fire, property damage, or poor printer performance.
-  **CAUTION—POTENTIAL INJURY:** If the printer weight is greater than 20kg (44lb), then it may require two or more people to lift it safely.

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'ÉLECTROCUTION :** 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 ! DOMMAGE POTENTIEL :** 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.
-  **ATTENTION ! DOMMAGE POTENTIEL :** Pour éviter tout risque d'électrocution ou d'incendie, branchez le câble d'alimentation directement à une prise électrique répondant aux exigences requises et correctement mise à la terre, proche du produit et facile d'accès.
-  **ATTENTION ! DOMMAGE POTENTIEL :** Pour éviter tout risque d'incendie ou d'électrocution, utilisez uniquement le câble d'alimentation fourni avec ce produit ou un câble de remplacement autorisé par le fabricant.
-  **ATTENTION ! DOMMAGE POTENTIEL :** Ce produit ne doit pas être utilisé avec des rallonges, des barres multiprises, des rallonges multiprises ou des périphériques UPS. La capacité de ces types d'accessoires peut être facilement dépassée par une imprimante laser, d'où un risque de dégâts matériels, d'incendie ou de performances d'impression amoindries.
-  **ATTENTION ! DOMMAGE POTENTIEL :** Utilisez uniquement un parasurtenseur correctement raccordé à l'imprimante et au câble d'alimentation fourni avec la machine. L'utilisation de parasurtenseurs non fabriqués par Xerox comporte un risque d'incendie et de dégâts matériels, et peut amoindrir les performances de l'imprimante.
-  **ATTENTION ! DOMMAGE POTENTIEL :** Si votre imprimante pèse plus de 20kg (44lb), l'intervention d'au moins deux personnes est nécessaire pour la soulever sans risque.





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—RIESGO DE DESCARGA:** Cuando vea este símbolo en el producto, 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—RIESGO DE LESIONES:** 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.






-  **PRECAUCIÓN—RIESGO DE LESIONES:** Para evitar el riesgo de incendio o descarga eléctrica, conecte el cable de alimentación a una toma de corriente debidamente conectada a tierra con la potencia adecuada que se encuentre cerca del dispositivo y resulte fácilmente accesible.
-  **PRECAUCIÓN—RIESGO DE LESIONES:** Para evitar el riesgo de incendio o descarga eléctrica, utilice exclusivamente el cable de alimentación que se suministra junto con este producto o el repuesto autorizado por el fabricante.
-  **PRECAUCIÓN—RIESGO DE LESIONES:** No utilice este producto con cables alargadores, regletas de varias tomas, cables alargadores de varias tomas o sistemas de alimentación ininterrumpida. La potencia de este tipo de accesorios puede sobrecargarse fácilmente si se utiliza una impresora láser, lo que puede dar lugar a que el rendimiento de la impresora sea bajo, a daños materiales o a posibles incendios.
-  **PRECAUCIÓN—RIESGO DE LESIONES:** Solo debe usarse con este producto un protector de sobretensión insertable Xerox debidamente conectado entre la impresora y el cable de alimentación que con ella se suministra. El uso de protectores de sobretensión de marcas distintas a Xerox puede dar lugar a que el rendimiento de la impresora sea bajo, a daños materiales o a posibles incendios.
-  **PRECAUCIÓN—RIESGO DE LESIONES:** si el peso de la impresora es superior a 20kg (44lb), pueden ser necesarias dos o más personas para levantarla de forma segura.


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 – 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.
-  **VORSICHT – VERLETZUNGSGEFAHR:** Um Feuer- und Stromschlaggefahr zu vermeiden, schließen Sie das Netzkabel direkt an eine ordnungsgemäß geerdete Steckdose an, die sich in der Nähe des Geräts befindet und leicht zugänglich ist.

-  **VORSICHT – VERLETZUNGSGEFAHR:** Um das Risiko eines Feuers oder elektrischen Schlags zu vermeiden, verwenden Sie ausschließlich das diesem Produkt beiliegende Netzkabel bzw. ein durch den Hersteller zugelassenes Ersatzkabel.
-  **VORSICHT – VERLETZUNGSGEFAHR:** Verwenden Sie das Produkt nicht mit Verlängerungskabeln, Mehrfachsteckdosen, Mehrfachverlängerungen oder Geräten für unterbrechungsfreie Stromversorgung. Die Belastbarkeit solcher Zubehörteile kann durch Laserdrucker schnell überschritten werden, was zu Brandgefahr, Beschädigung von Eigentum oder einer eingeschränkten Druckerleistung führen kann.
-  **VORSICHT – VERLETZUNGSGEFAHR:** Mit diesem Produkt darf nur ein Xerox Inline Surge Protector verwendet werden, der vorschriftsgemäß zwischen dem Drucker und dem mitgelieferten Netzkabel angeschlossen ist. Die Verwendung von nicht von Xerox stammenden Überspannungsschutzgeräten kann zu Brandgefahr, Beschädigung von Eigentum oder einer eingeschränkten Druckerleistung führen.
-  **VORSICHT – VERLETZUNGSGEFAHR:** Wenn der Drucker mehr als 20kg wiegt, sind zum sicheren Anheben mindestens zwei Personen notwendig.

Informazioni sulla sicurezza

- La sicurezza di questo prodotto è basata sul collaudo e le approvazioni del progetto tecnico originale e di specifici componenti. Il produttore non è responsabile per la sicurezza in caso di utilizzo di parti di ricambio non autorizzate.
- Le informazioni sulla manutenzione di questo prodotto sono rivolte esclusivamente a personale di manutenzione e assistenza specializzato.
- L'intervento di smontaggio e manutenzione/riparazione di questo dispositivo potrebbe comportare un maggiore rischio di scossa elettrica o lesioni personali. Il personale di assistenza specializzato deve essere consapevole di tale rischio e assumere le necessarie precauzioni.
-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** La presenza di questo simbolo sul prodotto significa che è presente tensione pericolosa nell'area del prodotto su cui si sta lavorando. Scollegare il prodotto prima di iniziare, o prestare cautela se l'intervento richiede che il prodotto debba ricevere alimentazione.
-  **ATTENZIONE – PERICOLO DI LESIONI:** La batteria al litio presente 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. Smettere le batterie al litio usate seguendo le istruzioni del produttore e le norme locali.
-  **ATTENZIONE – PERICOLO DI LESIONI:** Per evitare il rischio di incendio o scosse elettriche, collegare il cavo di alimentazione a una presa elettrica dotata di messa a terra e con le specifiche adeguate, situata in prossimità del prodotto e facilmente accessibile.
-  **ATTENZIONE – PERICOLO DI LESIONI:** Per evitare il rischio di incendi o scosse elettriche, utilizzare solo il cavo di alimentazione fornito con il prodotto o componenti sostitutivi autorizzati dal produttore.
-  **ATTENZIONE – PERICOLO DI LESIONI:** Non utilizzare il prodotto con cavi di prolunga, prese multiple, prolunghie multipresa o gruppi di continuità. La capacità di potenza di questi tipi di accessori può essere facilmente sovraccaricata da una stampante laser e può comportare incendi, danni o scarse prestazioni della stampante.

 **ATTENZIONE – PERICOLO DI LESIONI:** Con questo prodotto può essere utilizzato solo un protettore di sovratensione in linea Xerox fornito con la stampante, correttamente collegato alla stampante e al cavo di alimentazione. L'utilizzo di protettori di sovratensione non Xerox può comportare il rischio di incendi, danni o scarse prestazioni della stampante.

 **ATTENZIONE – PERICOLO DI LESIONI:** Se la stampante pesa più di 20 kg (44 lb), potrebbe richiedere due o più persone per essere sollevata in modo sicuro.

Health and Safety Incident Reporting

I. Summary

This section defines requirements for notification of health and safety incidents involving Xerox products (equipment and materials) at customer locations.

II. Scope

Xerox Corporation and subsidiaries worldwide.

III. Objective

To enable prompt resolution of health and safety incidents involving Xerox products and to ensure Xerox regulatory compliance.

IV. Definitions

Incident:

An event or condition occurring in a customer account that has resulted in injury, illness or property damage. Examples of incidents include machine fires, smoke generation, physical injury to an operator or service representative. Alleged events and product conditions are included in this definition.

V. Requirements

Initial Report:

1. Xerox organizations shall establish a process for individuals to report product incidents to Xerox Environment Health and Safety within 24 hours of becoming aware of the event.
2. The information to be provided at the time of reporting is contained in Appendix A (Health and Safety Incident Report involving a Xerox product).
3. The initial notification may be made by the method that follows:
 - Email Xerox EH&S at: usa.product.incident@xerox.com.
 - Fax Xerox EH&S at: 585-422-2249.



Note: If sending a fax, please also send the original via internal mail.

Responsibilities for resolution:

1. Business Groups/Product Design Teams responsible for the product involved in the incident shall:
 - a. Manage field bulletins, customer correspondence, product recalls, safety retrofits.
 - b. Fund all field retrofits.
2. Field Service Operations shall:
 - a. Preserve the Xerox product involved and the scene of the incident inclusive of any associated equipment located in the vicinity of the incident.
 - b. Return any affected equipment/part(s) to the location designated by Xerox EH&S and/or the Business Division.
 - c. Implement all safety retrofits.
3. Xerox EH&S shall:
 - a. Manage and report all incident investigation activities.
 - b. Review and approve proposed product corrective actions and retrofits, if necessary.
 - c. Manage all communications and correspondence with government agencies.
 - d. Define actions to correct confirmed incidents.

VI. Appendices

The Health and Safety Incident Report involving a Xerox Product (Form # EH&S-700) is available in the following location:

- [GSN Library 1789](#)

Change History

Change History

January 1, 2022

This is the launch version of the service manual.

General Information

Printer Model Configurations

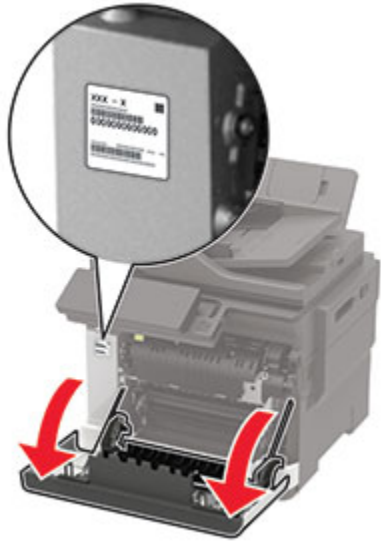
The Xerox® C315 printers are network-capable, multifunction laser printers. The printers support color and monochrome printing, and are embedded with home screen solutions and applications. All information in this service manual pertains to all models unless explicitly noted.

The printers are available in the following models:

Model	Configurations
C315	Network-ready color laser printer with 4.3" color touch screen, analog fax, internal duplex printing, and duplex scanning for small workgroups

Finding The Serial Number

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



Paper Support

Supported Paper Sizes

 **Note:**

- Your printer model may have a 650-sheet duo tray, which consists of a 550-sheet tray and an integrated 100-sheet multipurpose feeder. The 550-sheet tray of the 650-sheet duo tray supports the same paper sizes as the optional 550-sheet tray. The integrated multipurpose feeder supports different paper sizes, types, and weights.
- The ADF supports the listed paper sizes except all envelopes and Universal sizes smaller than 105x105mm (4.13x4.13in.).
- The scanner glass supports the listed paper sizes except legal, Oficio (Mexico), and folio.

Paper size and dimension	Standard 250-sheet tray	Manual feeder	Optional 650-sheet duo tray		Optional 550-sheet tray	Two-sided printing
			550-sheet tray	Multipurpose feeder		
A4 210x297mm (8.27x11.7in.)	✓	✓	✓	✓	✓	✓
A5^{1,2} 148x210mm (5.83x8.27in.)	✓	✓	✓	✓	✓	X
A6 105x148mm (4.13x5.83in.)	✓	✓	X	✓	X	X
JIS B5 182x257mm (7.17x10.1in.)	✓	✓	✓	✓	✓	X
Letter 215.9x279.4mm (8.5x11in.)	✓	✓	✓	✓	✓	✓
Legal 215.9x355.6mm (8.5x14in.)	✓	✓	✓	✓	✓	✓

Paper size and dimension	Standard 250-sheet tray	Manual feeder	Optional 650-sheet duo tray		Optional 550-sheet tray	Two-sided printing
			550-sheet tray	Multipurpose feeder		
Executive 184.2x266.7-mm (7.25x10.5in.)	✓	✓	✓	✓	✓	X
Oficio (Mexico) 215.9x340.4-mm (8.5x13.4in.)	✓	✓	✓	✓	✓	✓
Folio 215.9x330.2-mm (8.5x13in.)	✓	✓	✓	✓	✓	✓
Statement 139.7x215.9-mm (5.5x8.5in.)	✓	✓	X	✓	X	X
Hagaki 100x148mm (3.94x5.83in.)	✓	✓	X	✓	X	✓
Universal^{3,4} 98.4x148mm to 215.9x355.6-mm (3.87x5.83in. to 8.5x14in.)	✓	✓	X	✓	X	X
Universal^{3,4} 76.2x127mm to 215.9x355.6-mm (3x5in. to 8.5x14in.)	X	✓	X	✓	X	X
Universal^{3,4} 148x210mm to 215.9x355.6-mm	✓	✓	✓	✓	✓	X

General Information

Paper size and dimension	Standard 250-sheet tray	Manual feeder	Optional 650-sheet duo tray		Optional 550-sheet tray	Two-sided printing
			550-sheet tray	Multipurpose feeder		
(5.83x8.27in. to 8.5x14in.)						
Universal ^{3,4} 210x250mm to 215.9x355.6mm (8.27x11.0in. to 8.5x14in.)	✓	✓	✓	✓	✓	✓
7 3/4 Envelope 98.4x190.5mm (3.875x7.5in.)	✓	✓	X	✓	X	X
9 Envelope 98.4x225.4mm (3.875x8.9in.)	✓	✓	X	✓	X	X
10 Envelope 104.8x241.3mm (4.12x9.5in.)	✓	✓	X	✓	X	X
DL Envelope 110x220mm (4.33x8.66in.)	✓	✓	X	✓	X	X
C5 Envelope 162x229mm (6.38x9.01in.)	✓	✓	X	✓	X	X
B5 Envelope 176x250mm (6.93x9.84in.)	✓	✓	X	✓	X	X
Monarch 98.425x190.5mm	✓	✓	X	✓	X	X

Paper size and dimension	Standard 250-sheet tray	Manual feeder	Optional 650-sheet duo tray		Optional 550-sheet tray	Two-sided printing
			550-sheet tray	Multipurpose feeder		
(3.875x7.5in.)						
Other Envelope⁵ 98.4x162mm to 176x250mm (3.87x6.38in. to 6.93x9.84in.)	✓	✓	X	✓	X	X
<p>¹ Load this paper size into tray 1 and the manual feeder with the long edge entering the printer first.</p> <p>² Load this paper size into tray 2, tray 3, and the multipurpose feeder with the short edge entering the printer first.</p> <p>³ When Universal is selected, the page is formatted for 215.9x355.6mm (8.5x14 in.) unless the size is specified by the software application.</p> <p>⁴ Load narrow paper with the short edge entering the printer first.</p> <p>⁵ When Other Envelope is selected, the page is formatted for 215.9x355.6mm (8.5x14 in.) unless the size is specified by the software application.</p>						

Supported Paper Types

Note:

- Your printer model may have a 650-sheet duo tray, which consists of a 550-sheet tray and an integrated 100-sheet multipurpose feeder. The 550-sheet tray of the 650-sheet duo tray supports the same paper type as the 550-sheet tray. The integrated multipurpose feeder supports different paper sizes, types, and weights.
- Labels, envelopes, and card stock always print at 25 pages per minute.
- The ADF supports only plain paper.

Paper type	Standard 250-sheet tray	Manual feeder	Optional 650-sheet duo tray		Optional 550-sheet tray	Two-sided printing
			550-sheet tray	Multipurpose feeder		
Plain paper	✓	✓	✓	✓	✓	✓
Card stock	✓	✓	✓	✓	✓	X
Envelopes	✓	✓	X	✓	X	X

Paper type	Standard 250-sheet tray	Manual feeder	Optional 650-sheet duo tray		Optional 550-sheet tray	Two-sided printing
			550-sheet tray	Multipurpose feeder		
Paper labels	✓	✓	✓	✓	✓	✓
Vinyl labels	✓	✓	✓	✓	✓	X

Supported Paper Weights

 **Note:**

- Your printer model may have a 650-sheet duo tray, which consists of a 550-sheet tray and an integrated 100-sheet multipurpose feeder. The 550-sheet tray of the 650-sheet duo tray supports the same paper types as the 550-sheet tray. The integrated multipurpose feeder supports different paper sizes, types, and weights.
- Labels, envelopes, and card stock always print at 25 pages per minute.
- The ADF supports 52–120g/m² (14–32lb bond) paper.

Paper type and weight	Standard 250-sheet tray	Manual feeder	Optional 650-sheet duo tray		Optional 550-sheet tray	Two-sided printing
			550-sheet tray	Multipurpose feeder		
Light paper ¹ 60–74.9g/m ² grain long (16–19.9-lb bond)	✓	✓	✓	✓	✓	✓
Plain paper 75–90.3g/m ² grain long (20–24-lb bond)	✓	✓	✓	✓	✓	✓
Heavy paper 90.3–105g/m ² grain long (24.1–28-lb bond)	✓	✓	✓	✓	✓	✓
Card stock 105.1–162g/m ² grain long (28.1–43-lb bond)	✓	✓	✓	✓	✓	X







Paper type and weight	Standard 250-sheet tray	Manual feeder	Optional 650-sheet duo tray		Optional 550-sheet tray	Two-sided printing
			550-sheet tray	Multipurpose feeder		
Card stock 105.1–200g/m ² grain long (28.1–53-lb bond)	✓	✓	X	X	X	X
Paper Labels ₂ 131g/m ² (35-lb bond)	✓	✓	✓	✓	✓	✓ ₃
Vinyl Labels ₂ 131g/m ² (35-lb bond)	✓	✓	✓	✓	✓	X
Envelopes ^{4,5} 60–105g/m ² (16–28-lb bond)	✓	✓	X	✓	X	X
<p>¹ Paper less than 75g/m² (20lb) must be printed with Paper Type set to Light Paper. Failure to do so may cause excessive curl which can lead to feeding errors, especially in more humid environments.</p> <p>² Labels and other specialty media are supported for occasional use and must be tested for acceptability.</p> <p>³ Paper labels up to 105g/m² (28-lb bond) are supported.</p> <p>⁴ 100% cotton content maximum weight is 24-lb bond.</p> <p>⁵ 28-lb bond envelopes are limited to 25% cotton content.</p>						

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







Troubleshooting Precautions

-  **CAUTION—SHOCK HAZARD:** When you see this symbol on the product, 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—SHOCK HAZARD:** This product uses an electronic power switch. It does not physically disconnect the input AC voltage. To avoid the risk of electrical shock, always remove the power cord from the printer when removal of the input AC voltage is required.
-  **CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock while troubleshooting with covers removed or doors open, do not touch the exposed wires or circuits while the printer is connected to an electrical outlet.
-  **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—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.





Précautions De Dépannage



-  **ATTENTION ! RISQUE D'ÉLECTROCUTION :** 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 D'ÉLECTROCUTION :** Ce produit utilise un commutateur d'alimentation électronique. Il ne déconnecte pas physiquement la tension d'alimentation CA. Pour éviter tout risque d'électrocution, débranchez toujours le cordon d'alimentation de l'imprimante lorsque vous devez déconnecter la tension d'alimentation CA.
-  **ATTENTION ! RISQUE D'ÉLECTROCUTION :** Pour éviter tout risque d'électrocution lors du dépannage de l'imprimante avec les capots retirés ou les portes ouvertes, prenez garde de ne pas toucher les fils ou circuits dénudés si l'imprimante est connectée à une prise électrique.
-  **ATTENTION ! RISQUE D'ÉLECTROCUTION :** Pour éviter tout risque d'électrocution et éviter d'endommager l'imprimante, débranchez le cordon d'alimentation de la prise électrique et déconnectez toute connexion à tout périphérique externe avant de brancher ou débrancher des câbles ou circuits et assemblages électroniques.
-  **ATTENTION ! SURFACE CHAUDE :** L'intérieur de l'imprimante risque d'être brûlant. pour réduire le risque de brûlure, laissez la surface ou le composant refroidir avant d'y toucher.
-  **ATTENTION ! RISQUE DE PINCEMENT :** Pour éviter tout risque de blessure par pincement, agissez avec précaution au niveau des zones signalées par cette étiquette. Les blessures par pincement peuvent se produire autour des pièces mobiles telles que les engrenages, portes, tiroirs et capots.

Precauciones Durante La Solución De Problemas







-  **PRECAUCIÓN—RIESGO DE DESCARGA:** Cuando vea este símbolo en el producto, 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—RIESGO DE DESCARGA:** Este producto utiliza un interruptor de corriente electrónico. No desconecta físicamente la entrada de voltaje de CA. Para evitar el riesgo de descarga eléctrica, desenchufe siempre el cable de alimentación de la impresora cuando sea necesario retirar la entrada de voltaje de CA.
-  **PRECAUCIÓN—RIESGO DE DESCARGA:** Para evitar el riesgo de descarga eléctrica al solucionar problemas sin las cubiertas o con las puertas abiertas, no toque los cables ni los circuitos expuestos mientras la impresora está conectada a una toma de corriente.
-  **PRECAUCIÓN—RIESGO DE DESCARGA:** Para evitar el riesgo de descargas eléctricas y daños en la impresora, retire el cable de alimentación de la toma eléctrica y desconecte todas las conexiones a dispositivos externos antes de conectar o desconectar cualquier cable, placa electrónica o conjunto.
-  **PRECAUCIÓN—SUPERFICIE CALIENTE:** El interior de la impresora podría estar caliente. Para evitar el riesgo de heridas producidas por el contacto con un componente caliente, deje que la superficie se enfríe antes de tocarlo.
-  **PRECAUCIÓN—RIESGO DE DESCARGA ELÉCTRICA:** Para evitar el riesgo de lesión por atrapamiento, preste atención en las áreas marcadas con esta etiqueta. Las lesiones por atrapamiento se pueden producir en torno a partes móviles, tales como engranajes, puertas, bandejas y cubiertas.

Vorsichtsmaßnahmen Bei Der Fehlerbehebung

-  **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 – STROMSCHLAGGEFAHR:** Dieses Produkt verwendet einen elektronischen Leistungsschalter. Er trennt die Eingangswchselspannung nicht physikalisch. Um das Risiko eines elektrischen Schlags zu vermeiden, ziehen Sie stets das Netzkabel vom Drucker ab, wenn eine Abtrennung der Eingangswchselspannung erforderlich ist.
-  **VORSICHT – STROMSCHLAGGEFAHR:** Um die Gefahr eines Stromschlags während der Fehlerbehebung bei entfernten Abdeckungen oder offenen Klappen zu vermeiden, berühren Sie die freiliegenden Drähte oder Stromkreise nicht, wenn der Drucker an eine Steckdose angeschlossen ist.
-  **VORSICHT – STROMSCHLAGGEFAHR:** Um das Risiko eines elektrischen Schlags und Schäden am Drucker zu vermeiden, ziehen Sie das Netzkabel aus der Steckdose und trennen Sie alle Verbindungen zu jeglichen externen Geräten, bevor Sie Kabel, Elektronikplatinen oder Baugruppen einstecken oder abziehen.

-  **VORSICHT – HEISS:** Das Innere des Druckers kann sehr heiß sein. Vermeiden Sie Verletzungen, indem Sie heiße Komponenten stets abkühlen lassen, bevor Sie ihre Oberfläche berühren.
-  **VORSICHT – QUETSCHGEFAHR:** Um das Risiko einer Quetschung zu vermeiden, gehen Sie in Bereichen, die mit diesem Etikett gekennzeichnet sind, mit Vorsicht vor. Quetschungen können im Bereich von beweglichen Komponenten auftreten, wie z.B. Zahnrädern, Klappen, Fächern und Abdeckungen.

Precauzioni per gli interventi di riparazione

-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** La presenza di questo simbolo sul prodotto significa che è presente tensione pericolosa nell'area del prodotto su cui si sta lavorando. Scollegare il prodotto prima di iniziare, o prestare cautela se l'intervento richiede che il prodotto debba ricevere alimentazione.
-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** Questo prodotto utilizza un interruttore di alimentazione elettronico. Tale interruttore non scollega fisicamente la tensione CA in entrata. Per evitare il rischio di scossa elettrica, rimuovere sempre il cavo di alimentazione dalla stampante quando è necessario rimuovere la tensione CA in entrata.
-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** Per evitare il rischio di scossa elettrica quando si eseguono interventi sulla macchina con coperture rimosse e sportelli aperti, non toccare cavi o circuiti esposti quando la stampante è collegata a una presa elettrica.
-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** Per evitare il rischio di scossa elettrica e per impedire danni alla stampante, rimuovere il cavo di alimentazione dalla presa elettrica e scollegare tutti i collegamenti a eventuali dispositivi esterni prima di collegare o scollegare qualsiasi cavo, scheda elettronica o gruppo.
-  **ATTENZIONE – SUPERFICIE SURRISCALDATA:** L'area interna della stampante potrebbe surriscaldarsi. Per evitare infortuni, lasciare raffreddare la superficie dei componenti prima di toccarla.
-  **ATTENZIONE – PERICOLO DI SCHIACCIAMENTO:** Per evitare il rischio di lesioni, prestare la massima cautela quando si accede alle aree contrassegnate con questa etichetta. Potrebbero infatti verificarsi lesioni da schiacciamento in prossimità di parti in movimento, quali ad esempio ingranaggi, porte, vassoi e coperchi.

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 .
- 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 (75-80 g/m²) 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.
- From the control panel, navigate to **Settings > Troubleshooting > Print Quality Test Pages**.
- Print and keep the Menu Settings Page. The original page is used to restore the custom settings if necessary. From the control panel, navigate to **Settings > Reports > Menu Settings Page**, and then press **OK**.
- On the Menu Settings page, check if the print resolution is set to 600 dpi and the toner darkness is set to Normal.
- Check the toner cartridges for damage, and replace if necessary.
- 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.

Supplies Used To Resolve Print Quality Issues

For this family of printers, the following supplies are available to resolve print quality issues:

Supply item	Part number
Imaging kits <ul style="list-style-type: none"> • 125K page black imaging kit • 125K page black and color imaging kit 	Part numbers <ul style="list-style-type: none"> • 013R00689 • 013R00692
Toner cartridges (NA/XE Sold) <ul style="list-style-type: none"> • 3K Standard capacity black toner cartridge • 2K Standard capacity cyan toner cartridge • 2K Standard capacity magenta toner cartridge • 2K Standard capacity yellow toner cartridge • 8K High capacity black toner cartridge • 5.5K High capacity cyan toner cartridge • 5.5K High capacity magenta toner cartridge • 5.5K High capacity yellow toner cartridge 	Part numbers <ul style="list-style-type: none"> • 006R04356 • 006R04357 • 006R04358 • 006R04359 • 006R04364 • 006R04365 • 006R04366 • 006R04367
Toner cartridges (DMO Sold) <ul style="list-style-type: none"> • 3K Standard capacity black toner cartridge • 2K Standard capacity cyan toner cartridge • 2K Standard capacity magenta toner cartridge • 2K Standard capacity yellow toner cartridge 	Part numbers <ul style="list-style-type: none"> • 006R04360 • 006R04361 • 006R04362 • 006R04363

Supply item	Part number
<ul style="list-style-type: none"> 8K High capacity black toner cartridge 5.5K High capacity cyan toner cartridge 5.5K High capacity magenta toner cartridge 5.5K High capacity yellow toner cartridge 	<ul style="list-style-type: none"> 006R04368 006R04369 006R04370 006R04371
Toner cartridges (WW Metered) <ul style="list-style-type: none"> 8K Metered black toner cartridge 2.3K Metered cyan toner cartridge 2.3K Metered magenta print cartridge 2.3K Metered yellow print cartridge 	Part numbers <ul style="list-style-type: none"> 006R04372 006R04373 006R04374 006K04375
Waste toner bottle	008R13325—25K pages

Blurred Print Check

Action	Yes	No
Step 1 From the home screen, navigate to Settings > Print > Quality > Advanced Imaging > Color Adjust . Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Load paper from a fresh package. Paper absorbs moisture due to humidity. Store paper in its original wrapper until it is ready to be used. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 1 Remove the imaging kit. See Imaging kit removal . 2 Clean the printhead lenses. See Cleaning the printhead lenses . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 1 Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Weather Station 2 Press OK or touch Start .	Go to step 6.	Go to step 5.

Diagnostics and Troubleshooting

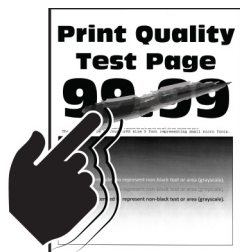
Action	Yes	No
Are the temperature and humidity levels reported similar to the actual temperature and humidity levels in the room?		
Step 5 Perform the weather station service check. See Weather station removal . Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Make sure that the HVPS cable is properly connected to the HVPS connector on the controller board. Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 Check the HVPS cable for continuity. Is there continuity?	Go to step 10.	Go to step 8.
Step 8 Check the HVPS cable for damage, and replace if necessary. Does the problem remain?	Go to step 9.	The problem is solved.
Step 9 1 Remove the transfer module. See Transfer module removal . 2 Make sure that the three HVPS contacts are properly positioned, and can freely move up and down. Are the contacts properly positioned, and do they freely move up and down?	Go to step 11.	Go to step 10.
Step 10 1 Reseat the HVPS. 2 Reseat the transfer module. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11 Replace the HVPS. See HVPS removal . Does the problem remain?	Go to step 12.	The problem is solved.


Action	Yes	No
Step 12 Replace the transfer module. See Transfer module removal . Does the problem remain?	Go to step 13.	The problem is solved.
Step 13 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.


Misaligned Color Check

Action	Yes	No
Step 1 1 Enter the Diagnostics menu, and then navigate to: Advanced Print Quality Samples > Advanced Print Quality Test Pages 2 Check pages G and H on the test pages to determine the color misalignment. Is there color misalignment?	Go to step 2.	The problem is solved.
Step 2 From the home screen, navigate to Settings > Print > Quality > Advanced Imaging > Color Adjust . Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Perform the auto alignment service check. See Auto alignment service check . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Replace the printhead. See Printhead removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Toner Easily Rubs Off Check

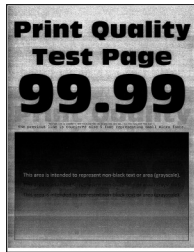


 **Note:** Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#) .

Actions	Yes	No
<p>Step 1</p> <p>Depending on your operating system, specify the paper type from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> • Make sure that the setting matches the paper loaded. • You can also change the setting on the printer control panel. <p>Does the problem remain?</p>	<p>Go to step 2.</p>	<p>The problem is solved.</p>
<p>Step 2</p> <p>Check if the paper weight is supported.</p> <p>If the weight is not supported, then load a supported one.</p> <p>Does the problem remain?</p>	<p>Go to step 3.</p>	<p>The problem is solved.</p>
<p>Step 3</p> <p>Load paper from a fresh package.</p> <p>Paper absorbs moisture due to humidity. Store paper in its original wrapper until it is ready to be used.</p> <p>Does the problem remain?</p>	<p>Go to step 4.</p>	<p>The problem is solved.</p>
<p>Step 4</p> <p>1 From the home screen, navigate to Settings > Device > Maintenance ></p>	<p>Go to step 5.</p>	<p>Contact the next level of support.</p>

Actions	Yes	No
Configuration Menu > Reports > Event Log 2 Check the log history for fuser error codes. Are fuser error codes logged?		
Step 5 Perform the service check for the error code. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Replace the LVPS. See LVPS removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Gray or Solid Background Check



Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

Action	Yes	No
Step 1 Remove, and then insert the imaging kit. See Imaging kit removal . Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 1 Place a narrow strip of paper over the gap between the developer units. Make sure that the paper stays in place when inserting the imaging kit to prevent the laser from discharging the photoconductor units.	Go to step 3.	Go to step 6.

Diagnostics and Troubleshooting

Action	Yes	No
<p>2 From the home screen, navigate to Settings > Reports > Print Quality Pages.</p> <p>3 Check the test pages for solid colors.</p> <p>Is the solid color missing where the strip of paper was placed?</p>		
<p>Step 3</p> <p>Reseat the printhead cable on the controller board.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Replace the printhead. See Printhead removal.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.
<p>Step 6</p> <p>Reseat the HVPS cable on the HVPS and on the JHVPS1 connector on the controller board.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Check the HVPS cable for continuity.</p> <p>Is there continuity?</p>	Go to step 9.	Go to step 8.
<p>Step 8</p> <p>Replace the HVPS cable.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p> <p>1 Remove the transfer module. See Transfer module removal.</p> <p>2 Check if the three HVPS contacts are properly positioned, and if they can freely move up and down.</p>	Go to step 11.	Go to step 10.

Action	Yes	No
Are the contacts properly positioned, and do they freely move up and down?		
Step 10 1 Reseat the HVPS. 2 Reseat the transfer module. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11 Replace the imaging kit. See Imaging kit removal . Does the problem remain?	Go to step 12.	The problem is solved.
Step 12 Replace the HVPS. See HVPS removal . Does the problem remain?	Go to step 13.	The problem is solved.
Step 13 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Solid Color or Black Image Check



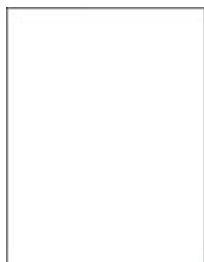
Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

Diagnostics and Troubleshooting

Action	Yes	No
<p>Step 1</p> <p>Remove, and then insert the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>1 Place a narrow strip of paper over the gap between the developer units.</p> <p>Make sure that the paper stays in place when inserting the imaging kit to prevent the laser from discharging the photoconductor units.</p> <p>2 From the home screen, navigate to Settings > Reports > Print Quality Pages.</p> <p>3 Check the test pages for solid colors.</p> <p>Is the solid color missing where the strip of paper was placed?</p>	Go to step 3.	Go to step 6.
<p>Step 3</p> <p>Reseat the printhead cable on the controller board.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Replace the printhead. See Printhead removal.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.
<p>Step 6</p> <p>Reseat the HVPS cable on the HVPS and on the JHVPS1 connector on the controller board.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Check the HVPS cable for continuity.</p>	Go to step 9.	Go to step 8.

Action	Yes	No
Is there continuity?		
Step 8 Replace the HVPS cable. Does the problem remain?	Go to step 9.	The problem is solved.
Step 9 1 Remove the transfer module. See Transfer module removal . 2 Check if the three HVPS contacts are properly positioned, and if they can freely move up and down. Are the contacts properly positioned, and do they freely move up and down?	Go to step 11.	Go to step 10.
Step 10 1 Reseat the HVPS. 2 Reseat the transfer module. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11 Replace the imaging kit. See Imaging kit removal . Does the problem remain?	Go to step 12.	The problem is solved.
Step 12 Replace the HVPS. See HVPS removal . Does the problem remain?	Go to step 13.	The problem is solved.
Step 13 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Blank or White Pages Check



Pre-check procedure

Make sure to perform the following pre-check procedure before performing this service check:

1. From the home screen, navigate to **Settings > Troubleshooting > Print Quality Test Pages**.
2. Check page A to determine any missing colors.
3. If any one color or black is missing, then perform the missing color check. See [Missing color check](#).

Action	Yes	No
Step 1 Remove, and then insert the imaging kit. See Imaging kit removal . Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 1 Remove the imaging kit. See Imaging kit removal . 2 Check if the developer unit and the imaging kit capacities match. The available capacities are 40K and 125K. Do the capacities match?	Go to step 4.	Go to step 3.
Step 3 Replace the mismatched developer unit. See Developer unit removal . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 1 Remove the imaging kit. See Imaging kit removal . 2 Remove the developer units from the imaging kit. See Developer unit removal . 3 Check the contacts between the developer units and the PCUs on the imaging kit.	Go to step 6.	Go to step 5.


Action	Yes	No
Are the contacts clean?		
Step 5 Clean the contacts. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Check if the contacts between the developer units and the PCUs on the imaging kit are damaged. Are the contacts damaged?	Go to step 7.	Go to step 8.
Step 7 Replace the damaged imaging kit component. See Supplies used to resolve print quality issues . Does the problem remain?	Go to step 8.	The problem is solved.
Step 8 Reseat the printhead cable on the JPH1 connector on the controller board. Does the problem remain?	Go to step 9.	The problem is solved.
Step 9 Reseat the HVPS cable on the HVPS and on the JHVPS1 connector on the controller board. Does the problem remain?	Go to step 10.	The problem is solved.
Step 10 Check the HVPS cable for continuity. Is there continuity?	Go to step 11.	Go to step 12.
Step 11 Replace the HVPS cable. Does the problem remain?	Go to step 12.	The problem is solved.
Step 12 1 Remove the transfer module. See Transfer module removal . 2 Check if the three HVPS contacts are properly positioned, and if they can freely move up and down.	Go to step 14.	Go to step 13.

Action	Yes	No
Are the contacts properly positioned, and do they freely move up and down?		
Step 13 Reposition the HVPS so that the pins can freely move up and down. Does the problem remain?	Go to step 14.	The problem is solved.
Step 14 Replace the HVPS. See HVPS removal . Does the problem remain?	Go to step 15.	The problem is solved.
Step 15 Replace the printhead. See Printhead removal . Does the problem remain?	Go to step 16.	The problem is solved.
Step 16 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Horizontal White Lines Check





Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

Actions	Yes	No
<p>Step 1</p> <p>Depending on your operating system, specify the paper type from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> • Make sure that the setting matches the paper loaded. • You can also change the setting on the printer control panel. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Remove, and then insert the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Remove the HVPS. See HVPS removal. 2 Check if the HVPS cable connectors are pinched or damaged. <p>Are the cable connectors pinched or damaged?</p>	Go to step 4.	Go to step 5.
<p>Step 4</p> <p>Replace the HVPS cable.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Check the cables connecting the HVPS to the controller board for proper connection, and reset if necessary.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Replace the HVPS. See HVPS removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Horizontal Colored Lines or Banding Check

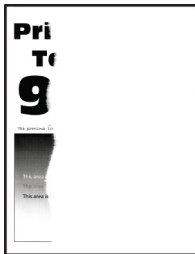



 **Note:** Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).


Actions	Yes	No
<p>Step 1</p> <p>Depending on your operating system, specify the paper type from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> • Make sure that the setting matches the paper loaded. • You can also change the setting on the printer control panel. <p>Does the problem remain?</p>	<p>Go to step 2.</p>	<p>The problem is solved.</p>
<p>Step 2</p> <p>Load paper from a fresh package.</p> <p>Paper absorbs moisture due to humidity. Store paper in its original wrapper until it is ready to be used.</p> <p>Does the problem remain?</p>	<p>Go to step 3.</p>	<p>The problem is solved.</p>
<p>Step 3</p> <p>Remove, and then reinstall the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	<p>Go to step 4.</p>	<p>The problem is solved.</p>

Actions	Yes	No
<p>Step 4</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p style="padding-left: 20px;">Settings > Troubleshooting > Print Quality Test Pages</p> <p>2 Check the test page for lines.</p> <p>Do the lines appear in equal intervals?</p>	Go to step 5.	Contact the next level of support.
<p>Step 5</p> <p>Perform the repeating defects check. See Repeating defects check.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Text or Images Cut Off Check



 **Note:** Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

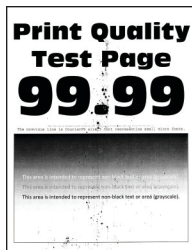
Actions	Yes	No
<p>Step 1</p> <p>Adjust the paper guides in the tray to the correct position for the paper loaded.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Depending on your operating system, specify the paper size from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> Make sure that the setting matches the paper loaded. 	Go to step 3.	The problem is solved.

Diagnostics and Troubleshooting

Actions	Yes	No
<ul style="list-style-type: none"> The paper size setting can be changed on the printer control panel. <p>Does the problem remain?</p>		
<p>Step 3</p> <ol style="list-style-type: none"> Remove, and then insert the imaging kit. See Imaging kit removal. Remove, and then insert the developer units. See Developer unit removal. <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Check for packing material left on the imaging components.</p> <p>Is there packing material left on the imaging components?</p>	Go to step 5.	Go to step 6.
<p>Step 5</p> <p>Remove the packing material.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <ol style="list-style-type: none"> Remove the imaging kit. See Imaging kit removal. Check if the developer unit hold downs are in their proper position. <div data-bbox="224 1276 570 1451" data-label="Image"> </div> <div data-bbox="203 1472 591 1682" data-label="Image"> </div> <p>Are the developer unit hold downs in their proper position?</p>	Go to step 8.	Go to step 7.


Actions	Yes	No
Step 7 1 Return the developer unit hold downs to their proper position. 2 Make sure that the developer unit hold downs are properly operating. Does the problem remain?	Go to step 8.	The problem is solved.
Step 8 Replace the imaging kit. See Imaging kit removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Mottled Print and Dots Check



Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).


Action	Yes	No
Step 1 Check the printer for leaked toner contamination. Is the printer free of leaked toner?	Go to step 2.	Go to step 6.
Step 2 1 From the home screen, navigate to Settings > Paper > Tray Configuration > Paper Size/Type 2 Check if the paper type and paper size settings match the paper loaded. 3 Make sure that paper does not have a textured or rough finish. Do the settings match?	Go to step 4.	Go to step 3.
Step 3	Go to step 4.	The problem is solved.


Action	Yes	No
<p>Depending on your operating system, specify the paper size and paper type from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> • Make sure that the settings match the paper loaded. • You can also change the settings on the printer control panel. <p>Does the problem remain?</p>		
<p>Step 4</p> <p>Load paper from a fresh package.</p> <p>Paper absorbs moisture due to humidity. Store paper in its original wrapper until it is ready to be used.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Remove, and then insert the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <ol style="list-style-type: none"> 1 Using a toner vacuum, clean the printer thoroughly. 2 Perform a print job to clear the remaining toner from the imaging components. <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Replace the developer unit of the leaking color. See Supplies used to resolve print quality issues to determine which developer unit to use.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.

Action	Yes	No
<p>Step 8</p> <p>Replace the photoconductor unit. See Supplies used to resolve print quality issues to determine which photoconductor unit to use.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p> <p>Check the transfer module for proper installation and damage, and replace if necessary. See Transfer module removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Vertical White Lines Check



 **Note:** Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

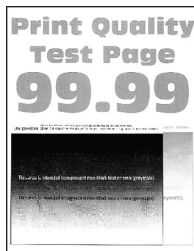
Action	Yes	No
<p>Step 1</p> <p>Depending on your operating system, specify the paper type from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> • Make sure that the setting matches the paper loaded. • You can also change the setting on the printer control panel. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Load paper source with the recommended paper type.</p>	Go to step 3.	The problem is solved.


Diagnostics and Troubleshooting


Action	Yes	No
Does the problem remain?		
<p>Step 3</p> <p>Remove, and then insert the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <ol style="list-style-type: none"> 1 Remove the waste toner bottle. See Waste toner bottle service check. 2 Remove the imaging kit. See Imaging kit removal. 3 Clean the printhead lenses. See Cleaning the printhead lenses. 4 From the home screen, navigate to Settings > Troubleshooting > Print Quality Test Pages. <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <ol style="list-style-type: none"> 1 Check the test pages and identify the affected color. 2 Replace the developer unit of the affected color. 3 If vertical streaks in all colors appear on page A, then replace the transfer module. See Transfer module removal. <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Replace the photoconductor unit. See Supplies used to resolve print quality issues to determine which photoconductor unit to use.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.

Action	Yes	No
<p>Step 7</p> <p>Check the transfer module for proper installation and damage, and replace if necessary. See Transfer module removal.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>Replace the printhead. See Printhead removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Ghost Images Check



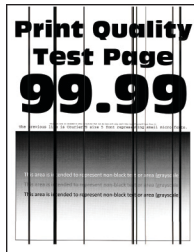
 **Note:** Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

Action	Yes	No
<p>Step 1</p> <p>Load the tray with the correct paper type.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Depending on your operating system, specify the paper type from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> • Make sure that the setting matches the paper loaded. • You can also change the setting on the printer control panel. <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.

Action	Yes	No
<p>Step 3</p> <p>From the home screen, navigate to Settings > Print > Quality > Advanced Imaging > Color Adjust.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Remove, and then reinstall the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>From the home screen, check the status of the black and color imaging kit.</p> <p>Does the status indicate OK?</p>	Go to step 6.	Go to step 7.
<p>Step 6</p> <p>Measure the distance from one point of the original image to the same point on the ghost image.</p> <p>Is the distance 43.9 mm?</p>	Go to step 8.	Go to step 7.
<p>Step 7</p> <p>Replace the developer unit of the affected color. See Supplies used to resolve print quality issues to determine which developer unit to use.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>Replace the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.

Action	Yes	No
<p>Step 9</p> <p>1 From the home screen, navigate to Settings > Reports > Menu Settings Page</p> <p>Perform this step twice to clear any debris.</p> <p>2 Check the fuser assembly for toner contamination.</p> <p>Is the fuser assembly contaminated?</p>	Go to step 10.	Contact the next level of support.
<p>Step 10</p> <p>Replace the fuser. See Fuser removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.


Vertical Colored Lines or Banding Check



Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

Action	Yes	No
<p>Step 1</p> <p>If the printer is an MFP, then use a blank sheet of paper to make a two-sided copy on the ADF.</p> <p>Do vertical dark lines appear?</p>	Go to step 2.	Go to step 3.
<p>Step 2</p> <p>Clean the ADF scanner glass. See .</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Depending on your operating system, specify the paper type</p>	Go to step 4.	The problem is solved.

Diagnostics and Troubleshooting

Action	Yes	No
<p>from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> • Make sure that the setting matches the paper loaded. • You can also change the setting on the printer control panel. <p>Does the problem remain?</p>		
<p>Step 4</p> <p>Load paper from a fresh package.</p> <p>Paper absorbs moisture due to humidity. Store paper in its original wrapper until it is ready to be used.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Remove, and then reinstall the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Replace the developer unit of the affected color. See Supplies used to resolve print quality issues to determine which developer unit to use.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Replace the imaging kit. See Supplies used to resolve print quality issues to determine which imaging kit to use.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.

Action	Yes	No
<p>Step 8</p> <p>Replace the transfer module. See Transfer module removal.</p> <p>Make sure that there are no debris underneath the transfer module when it is removed.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p> <p>Replace the fuser. See Fuser removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.


Dark Print Check



Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

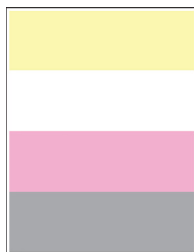
Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> From the home screen, navigate to Settings > Print > Quality > Advanced Imaging > Color Adjust Perform a color adjustment. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Depending on your operating system, reduce the toner darkness from the Printing Preferences or Print dialog.</p> <p>You can also change the setting on the printer control panel.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.

Diagnostics and Troubleshooting

Action	Yes	No
<p>Step 3</p> <p>Depending on your operating system, specify the paper type from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> • Make sure that the setting matches the paper loaded. • You can also change the setting on the printer control panel. <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Check if the paper is textured or has a rough finish.</p> <p>Is the paper textured or rough?</p>	Go to step 5.	Go to step 6.
<p>Step 5</p> <p>Replace textured or rough paper with plain paper.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Load paper from a fresh package.</p> <p>Paper absorbs moisture due to humidity. Store paper in its original wrapper until it is ready to be used.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <ol style="list-style-type: none"> 1 From the home screen, navigate to Settings > Troubleshooting > Print Quality Test Pages 2 Check the test pages. <p>Is only one color affected?</p>	Go to step 8.	Go to step 9.
<p>Step 8</p> <p>Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Color alignment adjust > AA adjustment row</p>	Go to step 9.	The problem is solved.


Action	Yes	No
Does the problem remain?		
Step 9 Perform the toner patch sensing service check. See Toner patch sensing service check . Does the problem remain?	Go to step 10.	The problem is solved.
Step 10 Check the HVPS cable for proper connection, and reseal if necessary. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11 Check the continuity of the main HVPS cable. Does the cable have continuity?	Go to step 13.	Go to step 12.
Step 12 Replace the cable. Does the problem remain?	Go to step 13.	The problem is solved.
Step 13 Check the contacts on the transfer module for damage. Are the contacts free of damage?	Go to step 15.	Go to step 14.
Step 14 Replace the transfer module. See Transfer module removal . Does the problem remain?	Go to step 15.	The problem is solved.
Step 15 Replace the HVPS. See HVPS removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Missing Color Check



Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#) .

Action	Yes	No
<p>Step 1</p> <p>From the home screen, navigate to Settings > Print > Quality > Advanced Imaging > Color Adjust.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Remove any packing material left on the imaging kit.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the toner cartridges and developer units are properly installed. 2 Make sure that the developer units and the imaging kit match. See Supplies used to resolve print quality issues . <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <ol style="list-style-type: none"> 1 Remove, and then insert the imaging kit. See Imaging kit removal. 2 Remove, and then insert the waste toner bottle. See Waste toner bottle removal . <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Reseat the printhead cable connector on the controller board.</p>	Go to step 6.	The problem is solved.

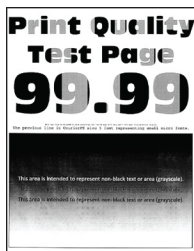
Action	Yes	No
Does the problem remain?		
<p>Step 6</p> <p>1 From the home screen, navigate to Settings > Troubleshooting > Print Quality Test Pages.</p> <p>2 Check the test pages.</p> <p>Is only one color missing?</p>	Go to step 7.	Go to step 10.
<p>Step 7</p> <p>Check if the missing color is yellow.</p> <p>Is the missing color yellow?</p>	Go to step 8.	Go to step 10.
<p>Step 8</p> <p>Remove the imaging kit, and then check if the transfer module cleaning blade is in the correct position.</p>  <p>Is the cleaning blade in the correct position?</p>	Go to step 9.	Go to step 10.
<p>Step 9</p> <p>Replace the transfer module. See Transfer module removal.</p> <p>Does the problem remain?</p>	Go to step 10.	The problem is solved.
<p>Step 10</p> <p>Check the contacts on the imaging kit and the developer unit of the missing color for dust or debris.</p> <p>Are the contacts free of dust or debris?</p>	Go to step 12.	Go to step 11.
<p>Step 11</p> <p>Clean the contacts between the developer unit and the imaging kit.</p> <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.


Diagnostics and Troubleshooting

Action	Yes	No
<p>Step 12</p> <p>Replace the developer unit of the affected color. See Supplies used to resolve print quality issues to determine which developer unit to use.</p> <p>Does the problem remain?</p>	Go to step 13.	The problem is solved.
<p>Step 13</p> <p>Check if the pins in the HVPS freely move in and out with an equal amount of spring force.</p> <p>Do the pins freely move?</p>	Go to step 15.	Go to step 14.
<p>Step 14</p> <p>Replace the HVPS. See HVPS removal.</p> <p>Does the problem remain?</p>	Go to step 15.	The problem is solved.
<p>Step 15</p> <ol style="list-style-type: none"> 1 Remove the imaging kit. See Imaging kit removal. 2 Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests 3 Go to the appropriate developer unit motor test for the missing color, and then run the test. <p>Does the motor run?</p>	Go to step 17.	Go to step 16.
<p>Step 16</p> <p>Replace the defective EP drive motor. See Motor (drive unit) removal.</p> <p>Does the problem remain?</p>	Go to step 17.	The problem is solved.
<p>Step 17</p> <ol style="list-style-type: none"> 1 Remove the imaging kit. See Imaging kit removal. 2 While manually turning the motors, check if the couplers that drive the imaging kit move. <p>Do the couplers move?</p>	Go to step 19.	Go to step 18.
<p>Step 18</p>	Go to step 19.	The problem is solved.

Action	Yes	No
Replace the EP drive assembly. See EP drive assembly removal . Does the problem remain?		
Step 19 Check the Print Quality Test Pages if the black plane or the CMY plane is missing. Is the black plane or the CMY plane missing?	Go to step 20.	Go to step 21.
Step 20 Replace the HVPS. See HVPS removal . Does the problem remain?	Go to step 21.	The problem is solved.
Step 21 Replace the printhead. See Printhead removal . Does the problem remain?	Go to step 22.	The problem is solved.
Step 22 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

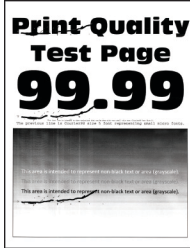
Uneven Print Density Check



 **Note:** Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#) .

Action	Yes	No
<p>Step 1</p> <p>Remove, and then insert the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>From the home screen, navigate to Settings > Print > Quality > Advanced Imaging > Color Adjust.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <ol style="list-style-type: none"> From the home screen, navigate to Settings > Device > Preferences Check if the paper type and size settings match the paper type and size set on the tray. <p>Do the settings match?</p>	Go to step 5.	Go to step 4.
<p>Step 4</p> <p>Change the paper size and type, or adjust the size settings in the tray.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Check the paper for texture or rough finish.</p> <p>Is the paper textured or rough?</p>	Go to step 6.	Go to step 7.
<p>Step 6</p> <p>Replace the textured or rough paper with plain paper.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Clean the printhead lenses. See Cleaning the printhead lenses.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>Replace the imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Repeating Defects Check



Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

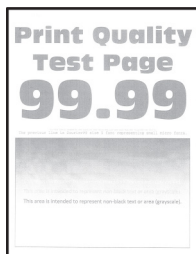
Action	Yes	No
<p>Step 1</p> <p>Check the rollers in the paper path for dust or debris.</p> <p>Is there dust or debris on the rollers?</p>	Go to step 2.	Go to step 3.
<p>Step 2</p> <p>Clean the affected rollers.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>1 From the home screen, navigate to Settings > Troubleshooting > Print Quality Test Pages</p> <p>2 Measure the distance between the repeating defects on the affected color page.</p> <p>3 Check if the distance matches any of the following measurements: Imaging kit</p> <ul style="list-style-type: none"> • 94.20 mm (3.71 in.) • 29.80 mm (1.17 in.) • 23.20 mm (0.91 in.) <p>Developer unit</p> <ul style="list-style-type: none"> • 43.90 mm (1.73 in.) • 45.50 mm (1.79 in.) <p>Transfer module</p> <ul style="list-style-type: none"> • 37.70 mm (1.48 in.) • 78.50 mm (3.09 in.) • 55 mm (2.17 in.) <p>Fuser</p> <ul style="list-style-type: none"> • 79.80 mm (3.14 in.) • 94.30 mm (3.71 in.) 	Go to step 4.	Contact the next level of support.

Diagnostics and Troubleshooting


Action	Yes	No
Do the repeating defects match any of the measurements?		
Step 4 Replace the component that matches the measurement. See Supplies used to resolve print quality issues to determine which developer unit or imaging kit to use. Does the problem remain?	Go to step 5.	The problem is solved.

Action	Yes	No
<p>Step 5</p> <p>Refer to the following list for additional components that can be replaced to resolve a repeating defect.</p> <p>Replace the parts one at a time in the following order, and then print a test page after replacing a part.</p> <p>99 mm interval</p> <ul style="list-style-type: none"> • Fuser <p>94 mm interval</p> <ul style="list-style-type: none"> • Imaging kit <p>79 mm interval</p> <ul style="list-style-type: none"> • Developer unit of the affected color <p>75 mm interval</p> <ul style="list-style-type: none"> • Fuser <p>55–56 mm interval</p> <ol style="list-style-type: none"> 1 Developer unit 2 Transfer module 3 EP drive <p>44–45 mm interval</p> <ul style="list-style-type: none"> • Developer unit <p>33 mm interval</p> <ol style="list-style-type: none"> 1 Developer unit 2 EP drive <p>28 mm, 24 mm, 16 mm, 12–14 mm, 9 mm, and 4-5 mm interval</p> <ul style="list-style-type: none"> • EP drive <p>6–7 mm interval</p> <ol style="list-style-type: none"> 1 Fuser motor 2 EP drive <p>1–3 mm interval</p> <ol style="list-style-type: none"> 1 Developer unit 2 Fuser 3 EP drive 4 MFP redrive <p>Less than 1 mm interval</p> <ol style="list-style-type: none"> 1 EP drive 2 Fuser motor <p>If a part was replaced in the previous step, then contact the next level of support.</p> <p>Does the problem remain?</p>	<p>Contact the next level of support.</p>	<p>The problem is solved.</p>

Light Print Check



Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).

Action	Yes	No
<p>Step 1</p> <p>From the home screen, navigate to Settings > Print > Quality > Advanced Imaging > Color Adjust.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Depending on your operating system, increase the toner darkness from the Printing Preferences or Print dialog.</p> <p>You can also change the setting on the printer control panel.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <ol style="list-style-type: none"> From the home screen, navigate to Settings > Print > Quality > Color Saver. Turn off Color Saver. <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Depending on your operating system, specify the paper type from the Printing Preferences or Print dialog.</p> <p> Note:</p> <ul style="list-style-type: none"> Make sure that the setting matches the paper loaded. 	Go to step 5.	The problem is solved.

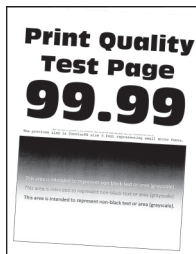
Action	Yes	No
<ul style="list-style-type: none"> You can also change the setting on the printer control panel. Does the problem remain?		
Step 5 Check if the paper is textured or rough. Is the paper textured or rough?	Go to step 6.	Go to step 7.
Step 6 Replace the textured or rough paper with plain paper. Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 Load paper from a fresh package. Paper absorbs moisture due to humidity. Store paper in its original wrapper until it is ready to be used. Does the problem remain?	Go to step 8.	The problem is solved.
Step 8 Remove, and then reinstall the imaging kit. See Imaging kit removal . Does the problem remain?	Go to step 9.	The problem is solved.
Step 9 Remove, and then reinstall the developer unit of the affected color. See Developer unit removal . Does the problem remain?	Go to step 10.	The problem is solved.
Step 10 1 Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Motor tests 2 Select the motor of the affected color, and then run the test. Does the motor run?	Go to step 12.	Go to step 11.
Step 11	Go to step 12.	The problem is solved.

Diagnostics and Troubleshooting

Action	Yes	No
<p>Check the motor cable for proper installation, and reseal if necessary.</p> <p>Does the problem remain?</p>		
<p>Step 12</p> <p>Clean the printhead lenses. See Cleaning the printhead lenses .</p> <p>Does the problem remain?</p>	Go to step 13.	The problem is solved.
<p>Step 13</p> <p>Check the HVPS cable on the HVPS and on the JHVPS1 connector on the controller board for proper connection.</p> <p>Is the cable properly connected at both ends?</p>	Go to step 15.	Go to step 14.
<p>Step 14</p> <p>Reconnect the cable.</p> <p>Does the problem remain?</p>	Go to step 15.	The problem is solved.
<p>Step 15</p> <p>Check the cable for continuity.</p> <p>Does the cable have continuity?</p>	Go to step 17.	Go to step 16.
<p>Step 16</p> <p>Replace the HVPS cable.</p> <p>Does the problem remain?</p>	Go to step 17.	The problem is solved.
<p>Step 17</p> <p>1 Remove the transfer module. See Transfer module removal.</p> <p>2 Check if the three contacts are visible and if they freely move.</p> <p>Are the contacts visible and do they freely move?</p>	Go to step 19.	Go to step 18.
<p>Step 18</p> <p>Replace imaging kit. See Imaging kit removal.</p> <p>Does the problem remain?</p>	Go to step 19.	The problem is solved.

Action	Yes	No
Step 19 Replace the transfer module. See Transfer module removal . Does the problem remain?	Go to step 20.	The problem is solved.
Step 20 Replace the HVPS. See HVPS removal . Does the problem remain?	Contact the next level of support.	The problem is solved.


Skewed Print Check



Note: Before performing this print quality check, go to the home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See [Initial print quality check](#).


Action	Yes	No
Step 1 1 Adjust the paper guides in the tray to the correct position for the paper loaded. 2 Make sure that the paper stack is below the maximum paper fill line. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Load paper from a fresh package. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Make sure that the paper loaded is supported. Does the problem remain?	Go to step 4.	The problem is solved.
Step 4	Go to step 5.	The problem is solved.

Diagnostics and Troubleshooting


Action	Yes	No
<p>Check the transfer module for proper installation and damage, and reinstall if necessary.</p> <p>Does the problem remain?</p>		
<p>Step 5</p> <p>Perform the printhead adjustment. See Registration adjustment.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Check the pick rollers for dust or debris, and clean the rollers if necessary.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>If the paper from tray 1 are straight but the paper from the other tray are skewed, then perform the following:</p> <ol style="list-style-type: none"> 1 Make sure that the paper guides in the tray are free to move and properly adjusted. 2 Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Registration adjust 3 Select Duplex Skew or Option Skew. <p> Note:</p> <ul style="list-style-type: none"> • Duplex Skew affects the duplex sides. • Option Skew affects the tray 2, tray 3, and MPF paper. • Raising the value of the skew setting rotates the horizontal lines clockwise while the vertical lines will remain vertical. <ol style="list-style-type: none"> 4 Print a test page. <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Toner Patch Sensing Service Check


Pre-check procedure

 **Note:** Perform this procedure before performing the service check.

1. Enter the Diagnostics menu, and then navigate to:
Printer Setup > EP setup > Toner patch sensor adjust > Full calibration
2. Navigate to **Advanced Print Quality Samples > Advanced Print Quality Test Pages**.
3. Check pages G and H on the test pages to determine the color misalignment.
4. If colors are misaligned, then navigate to **Printer diagnostics & adjustments > Color alignment adjust > Auto align**.
5. Find AA adjustment, and then press **OK** or touch **Start**.

 **Note:** This action triggers the auto align routine which performs the color alignment error corrections for the 0.42 mm, 0.84 mm, and 3 mm ranges.

6. Navigate to **Advanced Print Quality Samples > Advanced Print Quality Test Pages**.
7. Check pages G and H on the test pages to determine the color misalignment.
8. If colors are misaligned, then navigate to **Printer diagnostics & adjustments > Color alignment adjust > Auto align**.

 **Note:** Ignore the AA adjustment pre-check in this step.

Diagnostics and Troubleshooting


Action	Yes	No
<p>Step 1</p> <p>1 From the home screen, navigate to Settings > Troubleshooting > Print Quality Test Pages.</p> <p>2 On the Device information section of the test page, check the CalSet values of the following:</p> <ul style="list-style-type: none"> • C developer unit operating point • C laser operating point • C linearization stat • M developer unit operating point • M laser operating point • M linearization stat • Y developer unit operating point • Y laser operating point • Y linearization stat • K developer unit operating point • K laser operating point • K linearization stat <p>Are the CalSet values 0?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Perform the blank or white pages service check. See Blank or white pages check.</p> <p>Was an issue found and resolved?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <p>Perform the auto alignment service check. See Auto alignment service check.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer setup > EP setup > Toner patch sensor adjust</p> <p>2 Find Sensor gain characterization, and then press OK or touch Start.</p>	The problem is solved.	Go to step 5.

Action	Yes	No
<p>3 Find Sensor gain verification, and then press OK or touch Start.</p> <p>4 On the TPS Sensor Characterization and Verification Information page section of the print out, check the values of following:</p> <ul style="list-style-type: none"> a The PaperLeft-NDS Volts and PaperRight-DS Volts in the Patch Average from the TPS Verification Page section. b The Left-NDS Volts and Right-DS Volts in the High Gain Bare Belt Characterization Results section. c The mV value in the Amplifier Offset Characterization Result section. <p>Do the results approximately match the expected values and fall within the requirements?</p>		
<p>Step 5</p> <p>Check the cables at the JTPS1 and JTPS2 connectors on the controller board for proper connection, and reseal if necessary.</p> <p>Does the problem remain?</p>	<p>Go to step 6.</p>	<p>The problem is solved.</p>


Diagnostics and Troubleshooting

Action	Yes	No
<p>Step 6</p> <ol style="list-style-type: none"> 1 Remove the transfer module. See Transfer module removal. 2 Make sure that the sensors (toner patch) are free of dust or debris. 3 Perform the auto alignment service check. See Auto alignment service check. <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <ol style="list-style-type: none"> 1 Replace the sensors (toner patch). See Sensors (toner patch) removal. 2 Enter the Diagnostics menu, and then navigate to: Printer setup > EP setup > Toner patch sensor adjust 3 Find Sensor gain characterization, and then press OK or touch Start. 4 Find Sensor gain verification, and then press OK or touch Start. 5 On the TPS Sensor Characterization and Verification Information page section of the print out, check the values of following: <ol style="list-style-type: none"> a The PaperLeft-NDS Volts and PaperRight-DS Volts in the Patch Average from the TPS Verification Page section. b The Left-NDS Volts and Right-DS Volts in the High Gain Bare Belt Characterization Results section. c The mV value in the Amplifier Offset Characterization Result section. <p>Do the results approximately match the expected values and fall within the requirements?</p>	The problem is solved.	Contact the next level of support.


Post check procedure

 **Note:** Perform this procedure before performing the service check.

1. Enter the Diagnostics menu, and then navigate to:
Printer Setup > EP setup > Toner patch sensor adjust > Full calibration
2. Navigate to **Advanced Print Quality Samples > Advanced Print Quality Test Pages**.
3. Check pages G and H on the test pages to determine the color misalignment.
4. If colors are misaligned, then navigate to **Printer diagnostics & adjustments > Color alignment adjust > Auto align**.
5. Find AA adjustment, and then press **OK** or touch **Start**.

 **Note:** This action triggers the auto align routine which performs the color alignment error corrections for the 0.42 mm, 0.84 mm, and 3 mm ranges.


6. Navigate to **Advanced Print Quality Samples > Advanced Print Quality Test Pages**.
7. Check pages G and H on the test pages to determine the color misalignment.
8. If colors are misaligned, then navigate to **Printer diagnostics & adjustments > Color alignment adjust > Auto align**.

 **Note:** Ignore the AA adjustment pre-check in this step.


9. From the home screen, navigate to **Settings > Troubleshooting > Print Quality Test Pages**.
10. On the Device information section of the print quality test page, check the CalSet values of the following:
 - C developer unit operating point
 - C laser operating point
 - C linearization stat
 - M developer unit operating point
 - M laser operating point
 - M linearization stat
 - Y developer unit operating point
 - Y laser operating point
 - Y linearization stat
 - K developer unit operating point
 - K laser operating point
 - K linearization stat
11. If the CalSet values are not 0, then contact the next level of support.

Auto Alignment Service Check


Pre check procedure

 **Note:** Perform this procedure before performing the service check.

1. Enter the Diagnostics menu, and then navigate to:
Printer Setup > EP setup > Toner patch sensor adjust > Full calibration
2. Navigate to **Advanced Print Quality Samples > Advanced Print Quality Test Pages**.
3. Check pages G and H on the test pages to determine the color misalignment.
4. If colors are misaligned, then navigate to **Printer diagnostics & adjustments > Color alignment adjust > Auto align**.
5. Find AA adjustment, and then press **OK** or touch **Start**.

 **Note:** This triggers the auto align routine which performs the color alignment error corrections for the 0.42 mm, 0.84 mm, and 3 mm ranges.

6. Navigate to **Advanced Print Quality Samples > Advanced Print Quality Test Pages**.
7. Check pages G and H on the test pages to determine the color misalignment.
8. If colors are misaligned, then navigate to **Printer diagnostics & adjustments > Color alignment adjust > Auto align**.

 **Note:** Ignore the AA adjustment pre check in this step.

Action	Yes	No
<p>Step 1</p> <p>1 From the home screen, navigate to Settings > Troubleshooting > Print Quality Test Pages.</p> <p>2 On the CalSet section of the test page, check the color alignment stat value.</p> <p>Is the value 0?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>1 Perform the Blank or white pages check or Missing color check. See Blank or white pages check or Missing color check.</p> <p>2 Enter the Diagnostics menu, and then navigate to: Printer setup > EP setup > Toner patch sensor adjust</p> <p>3 Find Sensor gain characterization, and then press OK or touch Start.</p> <p>4 Find Sensor gain verification, and then press OK or touch Start.</p> <p>5 On the TPS Sensor Characterization and Verification Information page</p>	The problem is solved.	Go to step 3.

Action	Yes	No
<p>section of the print out, check the values of following:</p> <ul style="list-style-type: none"> a The PaperLeft-NDS Volts and PaperRight-DS Volts in the Patch Average from the TPS Verification Page section. b The Left-NDS Volts and Right-DS Volts in the High Gain Bare Belt Characterization Results section. c The mV value in the Amplifier Offset Characterization Result section. <p>Do the results approximately match the expected values and fall within the requirements?</p>		
<p>Step 3</p> <p>Check the cables at the JTPS1 and JTPS2 connectors on the controller board for proper connection, and reseal if necessary.</p> <p>Does the problem remain?</p>	<p>Go to step 4.</p>	<p>The problem is solved.</p>

Action	Yes	No
<p>Step 4</p> <ol style="list-style-type: none"> 1 Remove the transfer module. See Transfer module removal. 2 Make sure that the sensors (toner patch) are free of dust or debris. <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <ol style="list-style-type: none"> 1 Replace the sensors (toner patch). See Sensors (toner patch) removal. 2 Enter the Diagnostics menu, and then navigate to: Printer setup > EP setup > Toner patch sensor adjust 3 Find Sensor gain characterization, and then press OK or touch Start. 4 Find Sensor gain verification, and then press OK or touch Start. 5 On the TPS Sensor Characterization and Verification Information page section of the print out, check the values of following: <ol style="list-style-type: none"> a The PaperLeft-NDS Volts and PaperRight-DS Volts in the Patch Average part of the TPS Veriication Page section. b The Left-NDS Volts and Right-DS Volts in the High Gain Bare Belt Characterization Results section. c The mV value in the Amplifier Offset Characterization Result section. <p>Do the results approximately match the expected values and fall within the requirements?</p>	The problem is solved.	Contact the next level or support.

Post check procedure




Note: Perform this procedure before performing the service check.

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


Printer diagnostics & adjustments > Color alignment adjust

2. Find AA adjustment, and then press **OK** or touch **Start**.

 **Note:** This action triggers the auto align routine which performs the color alignment error corrections for the 0.42 mm, 0.84 mm, and 3 mm ranges.

3. Enter the Diagnostics menu, and then navigate to:

Printer Setup > EP setup > Toner patch sensor adjust > Full calibration

 **Note:** This action triggers the auto align routine which performs the color alignment error corrections for the 0.42 mm range only.

4. From the home screen, navigate to **Settings > Troubleshooting > Print Quality Test Pages**.

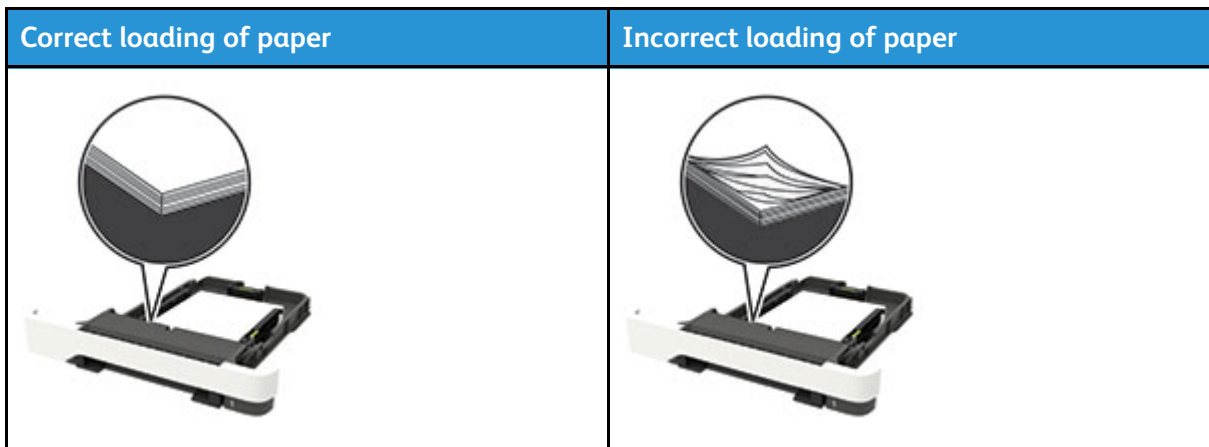
5. On the CalSet section of the test page, check if the color alignment stat value is 0. If the value is not 0, then contact the next level of support.

Paper Jams

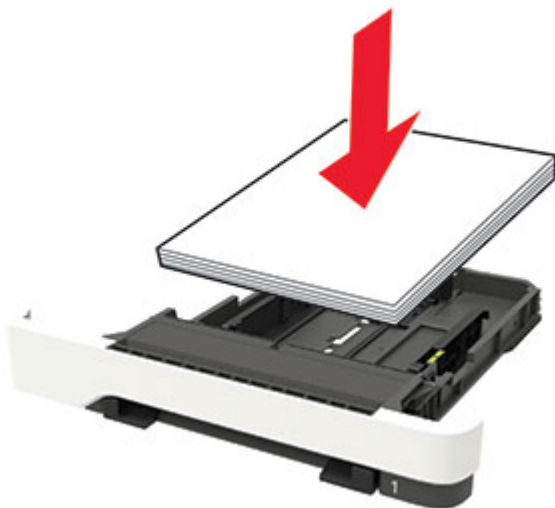
Avoiding Jams

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 Assist is set to On, the printer flushes blank pages or pages with partial prints after a jammed page has been cleared. Check your printed output for blank pages.
- When Jam Recovery is set to On or Auto, the printer reprints jammed pages.



	Jam location
1	Automatic document feeder (ADF)
2	Standard bin
3	In the fuser
4	Below the fuser
5	Duplex unit

	Jam location
6	Trays
7	Multipurpose feeder
8	Manual feeder

200 Paper Jams

200 Paper Jam Messages

Error code	Description	Action
200.02	The paper fed from the MPF or manual feeder arrived at the sensor (input) earlier than expected.	See Sensor (input) service check .
200.03	The Paper fed from the MPF did not reach the sensor (input).	
200.05	The paper fed from the MPF or manual feeder never cleared the sensor (input).	
200.06	The paper fed from the MPF was not picked. The paper did not reach the sensor (input).	
200.12	The paper fed from tray 1 arrived at the sensor (input) earlier than expected.	
200.15	The paper fed from tray 1 never cleared the sensor (input).	
200.16	The paper fed from tray 1 was not picked. The paper did not reach the sensor (input).	
200.22	The paper fed from tray 2 arrived at the sensor (input) earlier than expected.	
200.23	The paper fed from tray 2 did not reach the sensor (input).	
200.25	The paper fed from tray 2 never cleared the sensor (input).	
200.32	The paper fed from tray 3 arrived at the sensor (input) earlier than expected.	

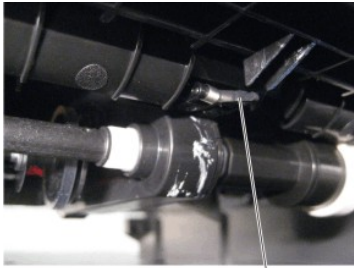
Error code	Description	Action
200.33	The paper fed from tray 3 did not reach the sensor (input).	
200.35	The paper fed from tray 3 never cleared the sensor (input).	
200.91	The paper remains on the sensor (input) during the warm up sequence.	

Sensor (Input) Service Check

Note:

- If the paper source is an option tray, then make sure to perform the Option tray jam service check in addition to this check. See [Option tray jam service check](#).
- Make sure that the tray 1 pass-through and manual feeder are free of dust or debris.
- Make sure that the duplex/manual feed sensor flag freely moves and is not obstructing the paper path.
- If a 232.x3 or 232.x5 error code appears on the display, then perform this check first at step 14, and then perform the Sensor (S1 duplex/manual feed) service check. See [Sensor \(redrive/duplex path 1\) service check](#).

Action	Yes	No
Step 1 1 Remove the tray insert. 2 Open the front door, and then remove the jammed paper. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Make sure that the sensor (input) paper path and the pass-through paper paths of any installed options are free of debris or dust. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Check if the error code is 200.1x. Is the error code 200.1x?	Go to step 4.	Go to step 6.
Step 4 Make sure that the pick tires are free of dust or debris. Does the problem remain?	Go to step 5.	The problem is solved.

Action	Yes	No
<p>Step 5</p> <p>Replace the pick tires. Pick tire removal.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Check the sensor (input) for proper installation and damage.</p> <p>Is the sensor properly installed and free of damaged?</p>	Go to step 7.	Go to step 14.
<p>Step 7</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Sensor tests</p> <p>2 Find the sensor (Input).</p> <p>3 Remove the tray insert, and then rotate the input sensor flag (A) to toggle the sensor.</p>  <p>The flag must freely rotate and return to its original position.</p> <p>Does the sensor status change while toggling the sensor?</p>	Go to step 9.	Go to step 8.
<p>Step 8</p> <p>Make sure that the gray cable is properly connected to the sensor (input).</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Sensor tests</p> <p>2 Find the sensor (Tray 1 pick).</p>	Go to step 11.	Go to step 10.

Action	Yes	No
<p>3 Remove the tray insert, and then rotate the smart pick encoder to toggle the sensor.</p> <p>The counter on the display must increment.</p> <p>Did the counter increment?</p>		
<p>Step 10</p> <p>Make sure that the red cable is properly connected to the sensor (tray 1 pick).</p> <p>Does the problem remain?</p>	Go to step 11.	The problem is solved.
<p>Step 11</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Motor tests</p> <p>2 Select Pick (Tray 1) Duplex, and then Pick (Tray 1) Picking.</p> <p>Did the motors run?</p>	Go to step 13.	Go to step 12.
<p>Step 12</p> <p>1 Turn off the printer.</p> <p>2 Remove the rear cover. See Rear cover removal.</p> <p>3 Make sure that the JSP1 cable is properly connected on the controller board.</p> <p>Does the problem remain?</p>	Go to step 13.	The problem is solved.
<p>Step 13</p> <p>Disconnect the cable, and then check the following voltages at the JSP1 connector on the controller board:</p> <ul style="list-style-type: none"> Pin 14: 5 V dc Pin 15: 3.3 V dc <p>Are the voltage readings approximately the same?</p>	Go to step 14.	Go to step 15.

Action	Yes	No
Step 14 Replace the motor (drive unit). See Motor (drive unit) removal . Does the problem remain?	Go to step 15.	The problem is solved.
Step 15 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

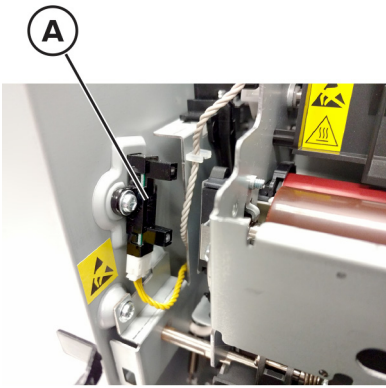
202 Paper Jams

202 Paper Jam Messages

Error code	Description	Action
202.03	The paper fed from the MPF or manual feeder never arrived at the sensor (fuser exit).	See 202.x3 error service check .
202.04	The paper fed from the MPF or manual feeder cleared the sensor (fuser exit) earlier than expected.	See Sensor (fuser exit) service check .
202.05	The paper fed from the MPF or manual feeder never cleared the sensor (fuser exit).	See 202.x5 error service check .
202.13	The paper fed from tray 1 never arrived at the sensor (fuser exit).	See 202.x3 error service check .
202.14	The paper fed from tray 1 cleared the sensor (fuser exit) earlier than expected.	See Sensor (fuser exit) service check .
202.15	The paper fed from tray 1 never cleared the sensor (fuser exit).	See 202.x5 error service check .
202.23	The paper fed from tray 2 never arrived at the sensor (fuser exit).	See 202.x3 error service check .
202.24	The paper fed from tray 2 cleared the sensor (fuser exit) earlier than expected.	See Sensor (fuser exit) service check .
202.25	The paper fed from tray 2 never cleared the sensor (fuser exit).	See 202.x5 error service check .
202.33	The paper fed from tray 3 never arrived at the sensor (fuser exit).	See 202.x3 error service check .

Error code	Description	Action
202.34	The paper fed from tray 3 cleared the sensor (fuser exit) earlier than expected.	See Sensor (fuser exit) service check .
202.35	The paper fed from tray 3 never cleared the sensor (fuser exit).	See 202.x5 error service check .
202.91	The paper remains on the sensor (fuser exit) during the warm up sequence.	See Sensor (fuser exit) service check .

Sensor (Fuser Exit) Service Check


Action	Yes	No
<p>Step 1</p> <p>Open the front door to access the jam area, and then remove the jammed paper.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check the sensor (A) for proper installation and damage.</p>  <p>Is the sensor properly installed and free of damage?</p>	Go to step 4.	Go to step 3.
<p>Step 3</p> <p>Replace the sensor. See Sensor (fuser exit) removal .</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p>	Go to step 8.	Go to step 5.

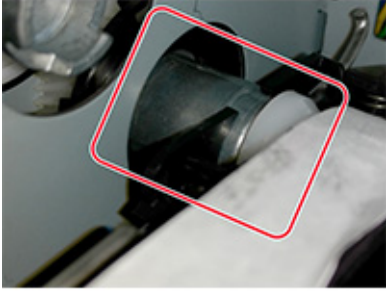
Diagnostics and Troubleshooting


Action	Yes	No
<p>Printer diagnostics & adjustments > Sensor tests</p> <p>2 Select Sensor (Fuser exit).</p> <p>Does the sensor status change while toggling the sensor?</p>		
<p>Step 5</p> <p>1 Turn off the printer.</p> <p>2 Remove the rear cover. See Rear cover removal.</p> <p>3 Make sure that the cable on the JBIN1 connector on the controller board is properly connected.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>1 Disconnect the JBIN1 cable on the controller board.</p> <p>2 Perform a POR, and then check the following voltages at the JBIN1 connector on the controller board:</p> <ul style="list-style-type: none"> • Pin 4: 5 V dc • Pin 5: 3.3 V dc <p>Are values approximately the same?</p>	Go to step 7.	Go to step 12.
<p>Step 7</p> <p>Make sure that the fuser exit sensor cable is properly connected at both ends.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>1 Make sure that the fuser exit sensor cable has continuity.</p> <p>2 Check the cable for damage, and replace if necessary.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p> <p>Replace the sensor. See Sensor (fuser exit) removal.</p> <p>Does the problem remain?</p>	Go to step 10.	The problem is solved.
<p>Step 10</p> <p>1 Check the fuser for proper installation and damage.</p>	Go to step 12.	Go to step 11.

Action	Yes	No
<p>2 Check the belt, rollers, and guides for wear or damage, and replace if necessary.</p> <p>Is the fuser properly installed and free of damage?</p>		
<p>Step 11</p> <p>Replace the fuser. See Fuser removal.</p> <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 12</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

202.x3 Error Service Check

Action	Yes	No
<p>Step 1</p> <p>1 Remove the imaging kit. See Imaging kit removal.</p> <p>2 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Motor tests</p> <p>3 Select K+ITM.</p> <p>Does the transfer belt move while the motor is running?</p>	Go to step 6.	Go to step 2.
<p>Step 2</p> <p>Make sure that the transfer belt coupler on the EP drive is engaged with the white transfer module links.</p> <p> Note:</p> <ul style="list-style-type: none"> Do not touch the belt. If available, use a mirror. 	Go to step 6.	Go to step 3.

Action	Yes	No
 <p>Is the transfer belt coupler properly engaged?</p>		
<p>Step 3 Remove, and then reinstall the transfer module. See Transfer module removal. Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4 Replace the transfer module guide. See Transfer module guide removal. Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5 Replace the EP drive. See EP drive assembly removal. Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6 Check the transfer belt for tear and damage. Is the belt free of tear and damage?</p>	Go to step 8.	Go to step 7.
<p>Step 7 Replace the transfer module. See Transfer module removal. Does the problem remain?</p>	Perform the Sensor (fuser exit) service check. See Sensor (fuser exit) service check .	The problem is solved.

Action	Yes	No
<p>Step 8</p> <ol style="list-style-type: none"> 1 Remove the transfer module. See Transfer module removal. 2 Using a pair of needle-nose pliers, turn the white coupler on the belt counter-clockwise.  <p>Does the coupler turn and does the belt move without binding?</p>	<p>Perform the Sensor (fuser exit) service check. See Sensor (fuser exit) service check.</p>	<p>Go to step 9.</p>
<p>Step 9</p> <p>Replace the transfer module. See Transfer module removal.</p> <p>Does the problem remain?</p>	<p>Perform the Sensor (fuser exit) service check. See Sensor (fuser exit) service check.</p>	<p>The problem is solved.</p>

202.x5 Error Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Fan the paper stack before loading the paper. 2 Make sure that the side and rear tray guides are set to the correct paper size being loaded. <p>Does the problem remain?</p>	<p>Go to step 2.</p>	<p>The problem is solved.</p>
<p>Step 2</p> <p>Remove paper from the output bin, and then resend the print job.</p> <p>Does the problem remain?</p>	<p>Go to step 3.</p>	<p>The problem is solved.</p>
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the paper is not curled or damaged. 2 Load paper with a different weight if necessary. 	<p>Go to step 4.</p>	<p>The problem is solved.</p>

Diagnostics and Troubleshooting

Action	Yes	No
Does the problem remain?		
Step 4 If the printer is an MFP, make sure that the redrive belt is properly attached to the pulley. Does the problem remain?	Go to step 5.	The problem is solved.
Step 5 1 Make sure that all toner cartridges are properly installed. 2 Make sure that the toner access cover is properly closed. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Check the toner cover for damage, and replace if necessary. See MFP Toner Cover Removal . Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 1 Enter the diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Sensor tests 2 Find the sensor (Fuser exit). Does the sensor status change while toggling the sensor?	Go to step 10.	Go to step 8.
Step 8 1 Make sure that the sensor cable is properly connected at both ends. 2 Check the sensor cable for damage, and replace if necessary. Does the problem remain?	Go to step 9.	The problem is solved.

Action	Yes	No
Step 9 Replace the sensor (fuser exit). See Sensor (fuser exit) removal . Does the problem remain?	Go to step 10.	The problem is solved.
Step 10 Replace the fuser. See Fuser removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

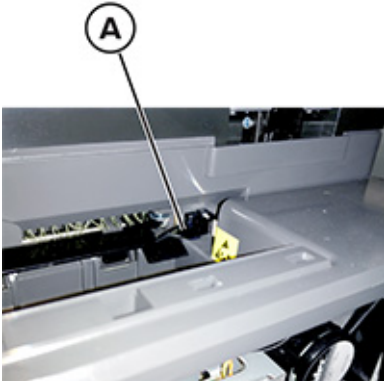
203 Paper Jams


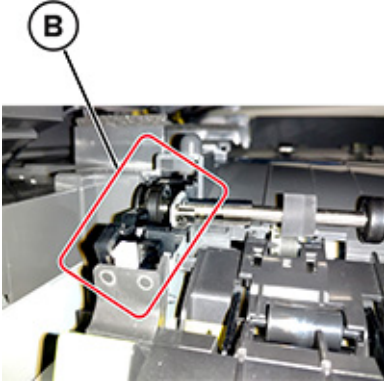
203 Paper Jam Messages

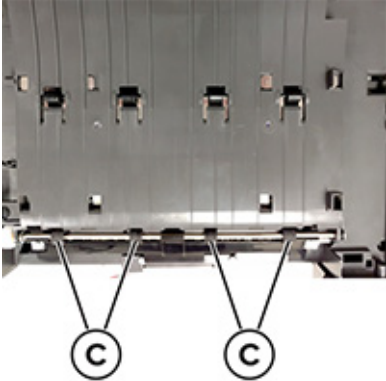
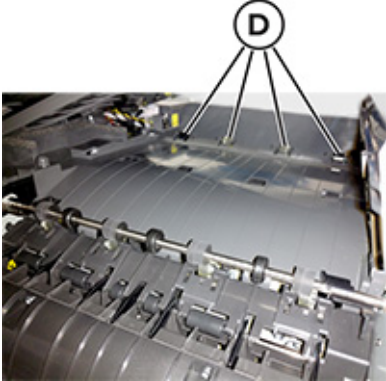
Error code	Description	Action
203.03	The paper fed from the MPF or manual feeder did not reach the sensor (output bin full).	See .
203.13	The paper fed from tray 1 did not reach the sensor (output bin full).	
203.23	The paper fed from tray 2 did not reach the sensor (output bin full).	
203.33	The paper fed from tray 3 did not reach the sensor (output bin full).	

Sensor (output Bin Full) Service Check

Action	Yes	No
Step 1 Check if the output bin full flag freely moves. Does the flag freely move?	Go to step 3.	Go to step 2.
Step 2 Reinstall the flag. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Check the output bin full sensor actuator (A) for proper installation	Go to step 4.	The problem is solved.

Action	Yes	No
<p>and damage, and replace if necessary.</p>  <p>Does the problem remain?</p>		
<p>Step 4</p> <p>Make sure that the sensor (output bin full) is free of debris and obstructions.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Sensor tests</p> <p>2 Find the sensor (Output bin full).</p> <p>Does the sensor status change while toggling the sensor?</p>	Go to step 10.	Go to step 6.
<p>Step 6</p> <p>Make sure that the cable at the sensor and at the JBIN2 connector on the controller board is properly connected.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Check the continuity of the sensor cable.</p> <p>Does the cable have continuity?</p>	Go to step 9.	Go to step 8.
<p>Step 8</p> <p>Replace the sensor cable.</p>	Go to step 9.	The problem is solved.

Action	Yes	No
Does the problem remain?		
<p>Step 9</p> <p>Replace the sensor (output bin full).</p> <p>Does the problem remain?</p>	Go to step 10.	The problem is solved.
<p>Step 10</p> <p>Make sure that the redrive belt (B) is properly installed on the pulley of the fuser exit shaft.</p> <p> Note:</p> <ul style="list-style-type: none"> The belt is slightly loose on the pulley. Do not attempt to tighten it. Replace the top cover assembly if the belt is damaged. See Top Cover Removal. <p></p> <p>Does the problem remain?</p>	Go to step 11.	The problem is solved.
<p>Step 11</p> <ol style="list-style-type: none"> Raise the scanner assembly. Make sure that the redrive rollers are free of dust or debris. Make sure that the four rollers (C) freely move. 	Go to step 12.	Go to step 13.

Action	Yes	No
 <p>Does the problem remain?</p>		
<p>Step 12 Replace the redrive unit. See Redrive Unit Removal. Does the problem remain?</p>	Go to step 13.	The problem is solved.
<p>Step 13 1 Make sure that the four rollers (D) are free of dust or debris. 2 Make sure that the rollers freely move.</p>  <p>Do the rollers freely move?</p>	Go to step 15.	Go to step 14.

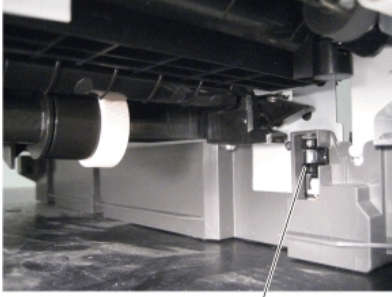
Action	Yes	No
Step 14 Replace the top cover. See Top Cover Removal . Does the problem remain?	Go to step 15.	The problem is solved.
Step 15 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

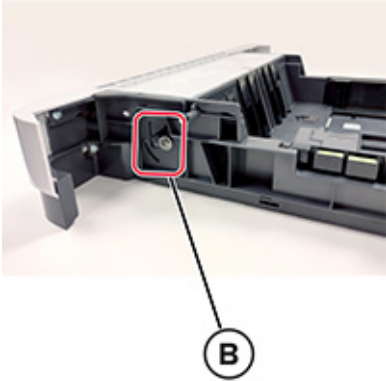
231 Paper Jams

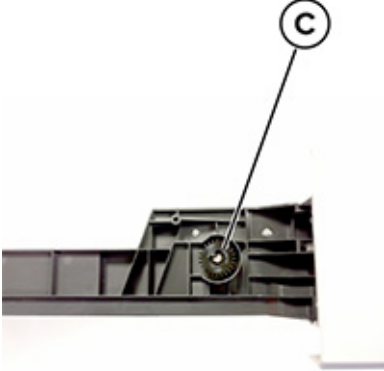
231 Paper Jam Messages

Error code	Description	Action
231.03	The paper fed from the MPF or manual feeder did not reach the sensor (redrive/duplex path 1) during a duplex print job.	See Sensor (redrive/duplex path 1) service check .
231.05	The paper fed from the MPF or manual feeder never cleared the sensor (redrive/duplex path 1) during a duplex print job.	
231.13	The paper fed from tray 1 did not reach the sensor (redrive/duplex path 1) during a print job.	
231.15	The paper fed from tray 1 never cleared the sensor (redrive/duplex path 1) during a duplex print job.	
231.23	The paper fed from tray 2 did not reach the sensor (redrive/duplex path 1) during a print job.	
231.25	The paper fed from tray 2 never cleared the sensor (redrive/duplex path 1) during a duplex print job.	
231.33	The paper fed from tray 3 did not reach the sensor (redrive/duplex path 1) during a print job.	
231.35	The paper fed from tray 3 never cleared the sensor (redrive/duplex path 1) during a duplex print job.	

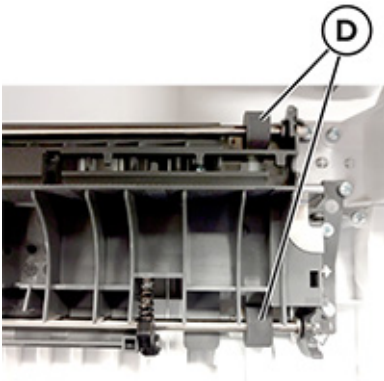
Sensor (redrive/duplex Path 1) Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Make sure that the tray side guides for all the trays are properly adjusted. 2 Make sure that the paper type and size settings match the paper type and size set on the tray. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Make sure that the paper size and weight are supported by the duplex. See Supported Paper Sizes and Supported Paper Weights.</p> <p>Are the paper size and weight supported?</p>	Go to step 4.	Go to step 3.
<p>Step 3</p> <p>Load a supported paper size and weight.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <ol style="list-style-type: none"> 1 Make sure that the printer is on a hard and flat surface, so that the tray is properly seated in the printer, and the S1 can actuator properly move. 2 Open the front door, and then remove the jammed paper. <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Remove the tray insert, and then make sure that the sensor (A) is free of debris and obstructions.</p> 	Go to step 6.	The problem is solved.

Action	Yes	No
Does the problem remain?		
<p>Step 6</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Sensor tests</p> <p>2 Find the sensor (Redrive/duplex path 1).</p> <p>3 Use a piece of paper to toggle the sensor.</p> <p>Does the sensor status change while toggling the sensor?</p>	Go to step 7.	Go to step 11.
<p>Step 7</p> <p>Check if the actuator (B) in the tray freely rotates and returns to its home position.</p>  <p>Does the flag freely rotate and return to its home position?</p>	Go to step 9.	Go to step 8.
<p>Step 8</p> <p>Replace the tray insert.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.
<p>Step 9</p> <p>Turn the gear (C) to check if the manual feed shaft freely rotates.</p>	Contact the next level of support.	Go to step 10.

Action	Yes	No
 <p>Does the manual feed shaft freely rotate?</p>		
<p>Step 10 Replace the tray insert. Does the problem remain?</p>	Contact the next level of support.	The problem is solved.
<p>Step 11 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Make sure that the cable on the JFUSES1 connector on the controller board is properly connected. Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 12 Check the cable for continuity or damage, and replace if necessary. Does the problem remain?</p>	Go to step 13.	The problem is solved.
<p>Step 13 Turn on the printer, and then check for the following voltage values at the JFUSES1 connector on the controller board:</p> <ul style="list-style-type: none"> • Pin 7: +5 V dc • Pin 8: Ground • Pin 9: +3.3 V dc <p>Are the values approximately the same?</p>	Go to step 14.	Go to step 22.
<p>Step 14</p>	Go to step 15.	The problem is solved.

Action	Yes	No
Replace the sensor (redrive/duplex path 1). See Sensor (Duplex) Removal . Does the problem remain?		
Step 15 Check if the following error codes appear: <ul style="list-style-type: none"> • 231.x3 • 231.x5 • 232.x3 • 232.x5 Did any of the error codes appear?	Go to step 16.	Go to step 22.
Step 16 Run a duplex print job from tray 1 and the option trays. Does the error only occur from an option tray?	Go to step 17.	Go to step 18.
Step 17 Replace the defective option tray. Does the problem remain?	Go to step 18.	The problem is solved.
Step 18 Check the fuser rollers for excessive wear or damage. Do the rollers show excessive wear or damage?	Go to step 19.	Go to step 20.
Step 19 Replace the fuser. See Fuser removal . Does the problem remain?	Go to step 20.	The problem is solved.
Step 20 Check the two duplex aligner rollers (D) for excessive wear or damage.	Go to step 21.	Go to step 22.

Action	Yes	No
 <p>Do the rollers show excessive wear or damage?</p>		
<p>Step 21 Replace the front door inner deflector. See Front Door Inner Deflector Removal. Does the problem remain?</p>	Go to step 22.	The problem is solved.
<p>Step 22 Replace the controller board. See Controller board removal. Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

232 Paper Jams

232 Paper Jam Messages

Error code	Description	Action
232.02	The paper fed from the MPF or manual feeder arrived at the sensor (input) earlier than expected during a duplex print job.	See Sensor (input) service check .
232.12	The paper fed from tray 1 arrived at the sensor (input) earlier than expected during a duplex print job.	
232.22	The paper fed from tray 2 arrived at the sensor (input) earlier than expected during a duplex print job.	
232.32	The paper fed from tray 3 arrived at the sensor (input) earlier than expected during a duplex print job.	

Error code	Description	Action
232.03	The paper fed from the MPF or manual feeder never arrived at the sensor (input) during a duplex print job.	
232.13	The paper fed from tray 1 never arrived at the sensor (input) during a duplex print job.	
232.23	The paper fed from tray 2 never arrived at the sensor (input) during a duplex print job.	
232.33	The paper fed from tray 3 never arrived at the sensor (input) during a duplex print job.	
232.05	The paper fed from the MPF or manual feeder never cleared the sensor (input) during a duplex print job.	
232.15	The paper fed from tray 1 never cleared the sensor (input) during a duplex print job.	
232.25	The paper fed from tray 2 never cleared the sensor (input) during a duplex print job.	
232.35	The paper fed from tray 3 never cleared the sensor (input) during a duplex print job.	

24y Paper Jams

241 Paper Jam Messages

Error code	Description	Action
241.05	The paper fed from the manual feeder never cleared the sensor (redrive/duplex path 1).	See Sensor (redrive/duplex path 1) service check .
241.82	The motor (tray 1 pick) failed to achieve the expected speed.	See Motor (tray 1 pick/duplex) service check .
241.83	The motor (tray 1 pick) stalled.	
241.84	The motor (tray 1 pick) is running too slow.	
241.91	The paper remains on the sensor (redrive/duplex path 1) during the warm-up sequence.	See Sensor (redrive/duplex path 1) service check .

242 Paper Jam Messages

Error code	Description	Action
242.05	The paper fed from the MPF never cleared the sensor (tray 2 pass-through).	See Option tray jam service check .
242.06	The paper fed from the MPF was not picked. The paper did not reach the sensor (tray 2 pass-through).	
242.21	The paper fed from tray 2 remains detected at the sensor (tray 2 pass-through).	
242.22	The paper fed from tray 2 arrived too early at the sensor (tray 2 pass-through).	
242.25	The paper fed from tray 2 cleared the sensor (tray 2 pass-through) too late.	
242.26	The paper fed from the tray 2 was not picked. The paper did not reach the sensor (tray 2 pass-through).	
242.31	The paper fed from tray 3 remains detected at sensor (tray 2 pass-through).	

Error code	Description	Action	
242.32	The paper fed from tray 3 arrived too early at the sensor (tray 2 pass-through).		
242.33	The paper fed from tray 3 did not reach the sensor (tray 2 pass-through).		
242.35	The paper fed from tray 3 cleared the sensor (tray 2 pass-through) too late.		
242.7	The motor (tray 2 pass-through) does not turn on.	See Option tray motor service check .	
242.71	The motor (tray 2 pass-through) does not turn off.		
242.72	The motor (tray 2 pass-through) failed to achieve the expected speed.		
242.73	The motor (tray 2 pass-through) stalled.		
242.74	The motor (tray 2 pass-through) is running too slow.		
242.75	The motor (tray 2 pass-through) is running too fast.		
242.76	The motor (tray 2 pass-through) moved too long.		
242.8	The motor (tray 2 pick) does not turn on.		
242.81	The motor (tray 2 pick) does not turn off.		
242.82	The motor (tray 2 pick) failed to achieve the expected speed.		
242.83	The motor (tray 2 pick) stalled.		
242.84	The motor (tray 2 pick) is running too slow.		
242.85	The motor (tray 2 pick) is running too fast.		
242.86	The motor (tray 2 pick) moved too long.		
242.91	The paper remains detected at the sensor (tray 2 pass-through) during the warm up sequence.		See Option tray jam service check .

Error code	Description	Action
242.92	The paper fed from an unknown source arrived too early at the sensor (tray 2 pass-through).	
242.93	The paper fed from an unknown source did not reach the sensor (tray 2 pass-through).	
242.95	The paper fed from an unknown source cleared the sensor (tray 2 pass-through) too late.	
242.96	The paper fed from an unknown source was not picked. The paper did not reach the sensor (tray 2 pass-through).	

243 Paper Jam Messages

Error code	Description	Action
243.31	The paper fed from tray 3 remains detected at the sensor (tray 3 pass-through).	See Option tray jam service check .
243.32	The paper fed from tray 3 arrived too early at the sensor (tray 3 pass-through).	
243.35	The paper fed from tray 3 cleared the sensor (tray 3 pass-through) too late.	
243.36	The paper fed from tray 3 was not picked. The paper did not reach the sensor (tray 3 pass-through).	
243.70	The motor (tray 3 pass-through) does not turn on.	See Option tray motor service check .
243.71	The motor (tray 3 pass-through) does not turn off.	
243.72	The motor (tray 3 pass-through) failed to achieve the expected speed.	
243.73	The motor (tray 3 pass-through) stalled.	
243.74	The motor (tray 3 pass-through) is running too slow.	
243.75	The motor (tray 3 pass-through) is running too fast.	

Error code	Description	Action
243.76	The motor (tray 3 pass-through) moved too long.	
243.80	The motor (tray 3 pick) does not turn on.	
243.81	The motor (tray 3 pick) does not turn off.	
243.82	The motor (tray 3 pick) failed to achieve the expected speed.	
243.83	The motor (tray 3 pick) stalled.	
243.84	The motor (tray 3 pick) is running too slow.	See Option tray jam service check .
243.85	The motor (tray 3 pick) is running too fast.	
243.86	The motor (tray 3 pick) moved too long.	
243.91	The paper remains detected at the sensor (tray 3 pass-through) during the warm-up sequence.	See Option tray motor service check .
243.92	The paper fed from an unknown source arrived too early at the sensor (tray 3 pass-through).	
243.93	The paper fed from an unknown source did not reach the sensor (tray 3 pass-through).	
243.95	The paper fed from an unknown source cleared the sensor (tray 3 pass-through) too late.	
243.96	The paper fed from an unknown source was not picked. The paper did not reach the sensor (tray 3 pass-through).	

Option Tray Jam Service Check

Action	Yes	No
<p>Step 1</p> <p>Check if the paper type and size settings match the paper type and size loaded on the tray.</p> <p>Do the settings match?</p>	Go to step 3.	Go to step 2.
<p>Step 2</p> <p>Change the paper size and type, or adjust the size setting in the tray.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Make sure that the rear and side guides in the trays are properly adjusted.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Make sure that the trays and the tray 1 pass-through are free of dust or debris.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <ol style="list-style-type: none"> 1 Make sure that the tray pick tires are free of dust or debris. 2 Check the tray pick tires for proper installation and damage, and reseal or replace if necessary. <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <ol style="list-style-type: none"> 1 Make sure that the pass-through sensors in the option trays are properly installed and free of damage, and replace if necessary. 2 Make sure that the sensors are free of debris and obstructions. <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Check the tray pass-through sensors and actuators for damage.</p>	Go to step 9.	Go to step 8.

Action	Yes	No
Are the sensors and actuators free of damage?		
Step 8 Replace the affected tray. Does the problem remain?	Go to step 9.	The problem is solved.
Step 9 1 Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Sensor tests 2 Find the sensor (Pass-through). 3 Find the sensor (MPF media present). Do the sensors status change while toggling the sensor?	Go to step 11.	Go to step 10.
Step 10 Check the affected sensor for proper installation, and reseal if necessary. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11 1 Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > Motor tests 2 Select Pick (tray x) motor test , and then press OK or touch Start . Make sure to perform the motor test in both directions. 3 Select Pass-through (tray x) motor test , and then press OK or touch Start . Make sure to perform the motor test in both directions. Did the motors run?	Go to step 12.	Go to step 13.
Step 12 Perform a print test. Does the problem remain?	Go to step 13.	The problem is solved.

Action	Yes	No
Step 13 Make sure that the option connector in the subframe is properly installed in tray 2. Does the problem remain?	Go to step 14.	The problem is solved.
Step 14 Make sure that the cable at the JOPT1 connector on the controller board is properly connected. Does the problem remain?	Go to step 15.	The problem is solved.
Step 15 Check the continuity of the option cable on the printer. Does the cable have continuity?	Go to step 17.	Go to step 16.
Step 16 Replace the cable. Does the problem remain?	Go to step 17.	The problem is solved.
Step 17 Check the tray connections for proper installation and damage, and replace the affected tray if necessary. Does the problem remain?	Contact the next level of support.	The problem is solved.

28y Paper Jams

280 Paper Jam Messages

Error code	Description	Action
280.11	The paper remains detected at the sensor (ADF first scan) after the printer is turned on.	Go to ADF Jam Service Check .
280.13	The paper fed from tray 1 never arrived at the sensor (ADF first scan).	
280.15	The paper fed from tray 1 never cleared the sensor (ADF first scan).	

281 Paper Jam Messages

Error code	Description	Action
281.11	The paper remains detected at the sensor (ADF pick) after the printer is turned on.	Go to ADF Jam Service Check .
281.13	The paper fed from tray 1 never arrived at the sensor (ADF pick).	
281.15	The paper fed from tray 1 never cleared the sensor (ADF pick).	

283 Paper Jam Messages

Error code	Description	Action
283.11	The paper remains detected at the sensor (ADF paper present) and sensor (ADF deskew) after the printer is turned on.	Go to ADF Jam Service Check .
283.13	The paper fed from tray 1 never arrived at the sensor (ADF paper present).	
283.15	The paper fed from tray 1 never cleared the sensor (ADF paper present).	

284 Paper Jam Messages

Error code	Description	Action
284.11	The paper remains detected at the sensor (ADF second scan) after the printer is turned on.	Go to ADF Jam Service Check .
284.13	The paper fed from tray 1 never arrived at the sensor (ADF second scan).	
284.15	The paper fed from tray 1 never cleared the sensor (ADF second scan).	

ADF Jam Service Check

 **Note:**

Diagnostics and Troubleshooting

- Before performing this check, make sure to update to the latest scanner firmware.
- Perform this check only if the paper feeds and jams in the ADF. If the paper is not feeding into the ADF, then see .

Action	Yes	No
<p>Step 1</p> <p>Make sure that the paper is free of damage, wrinkles, or moisture, and then perform a scan job.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>1 Perform another scan job.</p> <p>2 Check if the paper is skewing while it is fed into the ADF.</p> <p>Is the paper skewing while it is fed into the ADF?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <p>1 Make sure that the paper guides are properly adjusted to the paper size being loaded.</p> <p>2 Make sure that the ADF door is properly closed.</p> <p>3 Perform a scan job.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Check the ADF rollers for debris, contamination, wear, or damage.</p> <p>Are the rollers free of debris, contamination, wear or damage?</p>	Go to step 5.	Go to step 6.
<p>Step 5</p> <p>Replace the separator roller and ADF door. See ADF Separator Roller Removal and .</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Check the paper path for paper jams and fragments.</p> <p>Is the paper path free of jams and fragments?</p>	Go to step 8.	Go to step 7.
<p>Step 7</p> <p>Remove the paper jams and fragments.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.

Action	Yes	No
<p>Step 8</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Scanner diagnostics > Motor tests</p> <p>2 Perform all motor tests.</p> <p>Are the motors properly working?</p>	Go to step 9.	Go to step 13.
<p>Step 9</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Scanner diagnostics > Sensor tests</p> <p>2 Perform all sensor tests.</p> <p>Are the sensors properly working?</p>	Go to step 11.	Go to step 10.
<p>Step 10</p> <p>Make sure that the sensors are free of debris and dust.</p> <p>Does the problem remain?</p>	Go to step 11.	The problem is solved.
<p>Step 11</p> <p>Check the ADF sensor actuators for proper installation and damage.</p> <p>Are the actuators properly installed and free of damage?</p>	Go to step 13.	Go to step 12.
<p>Step 12</p> <p>Replace the ADF assembly. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF).</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.
<p>Step 13</p> <p>1 Reseat the ADF cable on the controller board.</p> <p>2 If applicable, reseat the ADF cable on the ADF relay card.</p> <p>Does the problem remain?</p>	Go to step 14.	The problem is solved.

Action	Yes	No
<p>Step 14</p> <p>Check for the following signals or voltage values from the JADF1 connector on the controller board:</p> <ul style="list-style-type: none"> • Pin 14: +24 V dc • Pin 15: +3.3 V dc • Pin 17: +3.3 V dc <p>Are the signals or voltage values approximately the same?</p>	Go to step 15.	Contact the next level of support.
<p>Step 15</p> <p>Replace the ADF assembly. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF).</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

295 Paper Jams

295 Paper Jam Messages

Error code	Description	Action
295.01	The page gap is too small.	See .

680 Paper Jams

680 Paper Jam Messages

Error code	Description	Action
680.20	The paper is out at the sensor (ADF paper present).	See .


User Attendance Messages

Non-Xerox Supply

The printer has detected a non-Xerox supply or part installed in the printer.

The Xerox printer is designed to function best with genuine Xerox supplies and parts. Use of third-party supplies or parts may affect the performance, reliability, or life of the printer and its imaging components.

All life indicators are designed to function with Xerox supplies and parts and may deliver unpredictable results if third-party supplies or parts are used. Imaging component usage beyond the intended life may damage the Xerox printer or associated components.


 **Warning:** Use of third-party supplies or parts can affect warranty coverage. Damage caused by the use of third-party supplies or parts may not be covered by the warranty.

If a customer accepts any and all of these risks and proceeds with the use of non-genuine supplies or parts in the printer, then instruct the customer to press and hold **X** and **#** simultaneously from the control panel for 15 seconds. Do not perform this action yourself.

If a customer does not want to accept these risks, then remove the third-party supply or part from the printer and install a genuine Xerox supply or part.

If the printer does not print after pressing and holding **X** and **#** simultaneously for 15 seconds, then instruct the customer to reset the supply usage counter.

1. From the control panel, navigate to:
Settings > Device > Maintenance > Configuration Menu > Supply Usage And Counters
2. Select the part or supply to reset, and then select **Start**.
3. Read the warning message, and then select **Continue**.
4. Press and hold **X** and **#** simultaneously for 15 seconds to clear the message.

 **Note:** If the customer is unable to reset the supply usage counters, then the customer should return the item to the place of purchase.

Metered Supply Installed in Printer Configured For Sold

The printer has detected a metered supply installed in the printer configured to use sold supply.

The printers ship with worldwide neutral toner cartridges. Initial installation of these cartridges sets the printer to worldwide neutral configuration. The first toner cartridge replacement sets the geographic differentiation code and toner cartridge type in NVM to that of the replacement cartridge. To change these NVM, a supplies plan conversion code (non-PagePack) or activation code (PagePack) code is required.

See [Supplies used to resolve print quality issues](#) for part numbers.

If an incorrect type of toner cartridge is installed, an error code is generated indicating toner incompatibility.

Changing The Service Plan (Non-PagePack)

Contact the relevant OpCo to obtain a conversion code:

- **US:** Provide the printer Serial Number and Total Meter Read using the email template provided in Eureka Tip 1465826. A conversion PIN code is provided within 10 minutes. For any service plan conversion issues or special requests, phone Xerox Corporate Licensing Systems (XDSS), 1-800-890-3260.
- **Xerox Business Solutions (XBS):** All requests for service plan conversions must be approved by the XBS VP of Service. Request your field service manager to contact your XBS company VP of Service for direction. The XBS Core Company VP of Service will require authorization to convert the printer from sold to metered, and will provide a status of your request. Do not phone Field Engineering to request a conversion code.
- **US Authorized Service Provider (ASP):** Provide the printer Serial Number and Total Meter Read using the email template provided in Eureka Tip 1465826. A conversion PIN code is provided within 10 minutes. For any service plan conversion issues or special requests, phone Xerox Corporate Licensing Systems (XDSS), 1-800-890-3260.
- **Canada:** Provide the printer Serial Number and Total Meter Read using the email template provided in Eureka Tip 1465826. A conversion PIN code is provided within 10 minutes. For any service plan conversion issues or special requests, phone Customer Delivery Organization (CDO) field support, 1-800-647-1331.



Note: The service plan conversion code must be entered within 500 Total Impression counts. If this count is exceeded, a new code is required.

Using The Control Panel

1. From the control panel, navigate to **Settings > Supplies Plan > Plan Conversion**.
2. Record the **Total Impressions** and **Device Serial Number**.
3. Contact the relevant OpCo to obtain the conversion code.
4. After receiving the conversion code, on the control panel, navigate to **Supplies Plan > Plan Conversion > Conversion Code**.
5. Enter the conversion code provided, then select **Convert Plan**.
6. Navigate to **Supplies Plan > Plan Conversion > Current Plan** to confirm the conversion is successful.

Using The Embedded Web Server

1. Open a web browser, and then type the printer IP address. If necessary, ask the customer to enter the Admin password.
2. From the home page, navigate to **Settings > Supplies Plan > Plan Conversion**.
3. Record the **Total Impressions** and **Device Serial Number**.
4. Contact the relevant OpCo to obtain the conversion code.
5. After receiving the conversion code, on the embedded web server, navigate to **Settings > Supplies Plan > Plan Conversion > Conversion Code**.

6. Enter the conversion code provided, then click **Convert Plan**.
7. Check the **Current Plan** status to confirm the conversion is successful.

Changing The Service Plan (PagePack)

Contact the relevant OpCo to obtain an activation code. Provide the Sequence Number and Device Serial Number.

- **EMEA (XE):** Email office.europe.page.pack.pin@xerox.com
- **EMEA (DMO-E):** Follow your local process.
- **LATAM (Latin America):** Follow your local process.



Note: The service plan activation code must be entered within 1000 Total Impression counts. If this count is exceeded, a new code is required.

Using The Control Panel

1. From the control panel, navigate to **Supplies Plan > Plan Activation**.
2. Record the **Sequence Number** and **Device Serial Number**.
3. Contact the relevant OpCo to obtain the activation code.
4. After receiving the activation code, on the control panel, navigate to **Settings > Supplies Plan > Plan Activation > Activation Code**.
5. Enter the activation code provided, then select **Activate Plan**.

Using The Embedded Web Server

1. Open a web browser, and then type the printer IP address. If necessary, ask the customer to enter the Admin password.
2. From the home page, navigate to **Settings > Supplies Plan > Plan Activation**.
3. Record the **Sequence Number** and **Device Serial Number**.
4. Contact the relevant OpCo to obtain the activation code.
5. After receiving the activation code, on the embedded web server, navigate to **Settings > Supplies Plan > Plan Activation > Activation Code**.
6. Enter the activation code provided, then click **Activate Plan**.

24 User Attendance Errors

24 User Attendance Error Messages

Error code	Description	Action
24.04	The printer tried to do a duplex print job on a sheet that was too short or too narrow for the duplex path.	Perform one of the following: <ol style="list-style-type: none"> 1 Load the correct paper size in the tray. 2 From the control panel, select Continue to clear the message, and then print using a different tray paper source. 3 Check the tray length and width guides, and then make sure that paper is properly loaded in the tray. 4 Make sure that the correct paper size and type are specified in the Printing Preferences or Print dialog. 5 Make sure that the paper size and type are specified in the Paper menu on the printer control panel. 6 Cancel the print job.

31 User Attendance Errors

31 User Attendance Error Messages

Error code	Description	Action
31.35z	Waste toner bottle smart chip or sensor problem.	See Waste toner bottle service check .
31.40z	The printer failed to replenish due to bad auger gear and toner cartridge gear mesh.	Insert the toner cartridge of the affected color.
31.40z	Black toner cartridge smart chip or sensor problem.	See Missing toner cartridge, developer unit, or photoconductor unit service check .
31.41z	Cyan toner cartridge smart chip or sensor problem.	
31.42z	Magenta toner cartridge smart chip or sensor problem.	
31.43z	Yellow toner cartridge smart chip or sensor problem.	

Error code	Description	Action
31.60z	Black imaging kit or photoconductor smart chip or sensor problem.	
31.65z	Black and color imaging kit smart chip or sensor problem.	

The following are the meaning of the z codes:

- A—Missing
- B—Missing Mux
- C—Read failure
- D—Write failure
- E—Device information read failure
- F—Authentication error
- G—Read failure

32 User Attendance Errors

32 User Attendance Error Messages

Error code	Description	Action
32.40J	Black Metered toner cartridge installed in printer configured for Sold	See Metered Supply Installed in Printer Configured For Sold
32.41J	Cyan Metered toner cartridge installed in printer configured for Sold	
32.42J	Magenta Metered toner cartridge installed in printer configured for Sold	
32.43J	Yellow Metered toner cartridge installed in printer configured for Sold	
32.40z	Black toner cartridge unsupported error.	See Missing toner cartridge, developer unit, or photoconductor unit service check .
32.41z	Cyan toner cartridge unsupported error.	
32.42z	Magenta toner cartridge unsupported error.	
32.43z	Yellow toner cartridge unsupported error.	

Error code	Description	Action
32.65z	Black and color imaging kit or photoconductor unit unsupported error.	

The following are the meaning of the z codes:

- A—Unsupported memory map version in the smart chip
- B—Failed capacity class/model compatibility check
- C—Failed OEM check
- D—Failed SWE marriage check
- E—The supply is on the revoked list
- F—The toner cartridge or imaging kit is MICR, and the firmware release does not support MICR
- J—Metered toner cartridge installed in printer configured for Sold toner cartridge

33 User Attendance Errors

33 User Attendance Error Messages

 **Note:** See [Non-Xerox supply](#).

Error code	Description	Action
33.40z	Non-Xerox black toner cartridge. The smart chip contents have been manipulated by a third party manufacturer.	See Missing toner cartridge, developer unit, or photoconductor unit service check .
33.41z	Non-Xerox cyan toner cartridge. The smart chip contents have been manipulated by a third party manufacturer.	
33.42z	Non-Xerox magenta toner cartridge. The smart chip contents have been manipulated by a third party manufacturer.	
33.43z	Non-Xerox yellow cartridge. The smart chip contents have been manipulated by a third party manufacturer.	
33.50z	Non-Xerox black developer unit. The smart chip contents have been manipulated by a third party manufacturer.	

Error code	Description	Action
33.64z	Non-Xerox black and color imaging kit. The smart chip contents have been manipulated by a third party manufacturer.	

The following are the meaning of the z codes:

- A— Non-genuine Xerox supply
- B— Supply is exposed

Missing Toner Cartridge, Developer Unit, or Photoconductor Unit Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Make sure that the toner cartridge or photoconductor unit is properly installed. 2 Check the error code on the display, and then verify if the toner cartridge, developer unit, or photoconductor unit is supported. 3 Replace the unsupported supply. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check the HVPS and pogo pin cables for proper connection, and reseat if necessary.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the pogo pin contacts are free from dust or debris. 2 Check the pogo pin contacts for damage, and replace if necessary. <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Replace the imaging kit. See Imaging kit removal.</p> <p>See Supplies used to resolve print quality issues to determine which imaging kit to use.</p>	Go to step 5.	The problem is solved.

Diagnostics and Troubleshooting

Action	Yes	No
Does the problem remain?		
<p>Step 5</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Sensor tests</p> <p>2 Find the sensor (Toner meter).</p> <p>Does the sensor status change while toggling the sensor?</p>	Go to step 7.	Go to step 6.
<p>Step 6</p> <p>Replace the TMC card. See TMC card removal.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

34 User Attendance Errors

34 User Attendance Error Messages

Error code	Description	Action
34.04	The printer tried to do a duplex print job on a sheet that was too short or too narrow for the duplex path.	Perform one of the following: <ol style="list-style-type: none"> 1 Load the correct paper size in the tray. 2 From the control panel, select Continue to clear the message, and then print using a different tray paper source. 3 Check the tray length and width guides, and then make sure that paper is properly loaded in the tray. 4 Make sure that the correct paper size and type are specified in the Printing Preferences or Print dialog. 5 Make sure that the paper size and type are specified in the Paper menu on the printer control panel. 6 Cancel the print job.

42 User Attendance Errors

42 User Attendance Error Messages

Error code	Description	Action
42.xyz	Printer region mismatch.	See Region mismatch service check .

The following are the meaning of the xyz codes:

- A b z—A is the printer region (error values 1 to 6, and 0 always matches)
- a B z—B is the cartridge region (values 0 to 6)
- a b Z—Z is the cartridge color (CMY or K)
- 0 b z—Region 0: The machine is not regionalized, and matches any regionalized cartridge
- a 0 z—Region 0: The cartridge is not regionalized, and only matches with machine region 0
- 1 1 z—Region 1: North America
- 2 2 z—Region 2: Europe Economic Area + Extras
- 3 3 z—Region 3: Asia Pacific Group

- 4 4 z—Region 4: Latin America
- 5 5 z—Region 5: Rest Of Europe, Middle East, and Africa
- 6 6 z—Region 6: Australia and New Zealand

Region Mismatch Service Check

Action	Yes	No
Step 1 Check the region number of the toner cartridge and the printer. Do the numbers match?	Contact the next level of support.	Go to step 2.
Step 2 Install the appropriate toner cartridge. Does the problem remain?	Contact the next level of support.	The problem is solved.

43 User Attendance Errors

43 User Attendance Error Messages

Error code	Description	Action
43.40z	Black toner cartridge toner meter cycle error.	See TMC card service check .
43.41z	Cyan toner cartridge toner meter cycle error.	
43.42z	Magenta toner cartridge toner meter cycle error.	
43.43z	Yellow toner cartridge toner meter cycle error.	

The following are the meaning of the yz codes:

- y—Recoverable first error
- z—Non-recoverable second error

TMC Card Service Check


Action	Yes	No
Step 1 1 Enter the Diagnostics menu, and then navigate to: Printer diagnostics & adjustments > Sensor tests 2 Find the sensor (Toner meter). Does the sensor status change while toggling the sensor?	Go to step 2.	Go to step 3.
Step 2 Replace the toner cartridge. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Replace the TMC card. See TMC card removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

80 User Attendance Errors

80 User Attendance Error Messages

Error code	Description	Action
80.1	The maintenance kit is low.	See Maintenance kit service check .
80.2	The maintenance kit is very low.	
80.3	Replace the maintenance kit. Zero estimated pages remain.	
80.4		

Maintenance Kit Service Check

Action	Yes	No
 1 Replace the required maintenance kit. 2 Reset the maintenance counter. Does the problem remain?	Contact the next level of support.	The problem is solved.

82 User Attendance Errors

82 User Attendance Error Messages

Error code	Description	Action
82.11	The waste toner bottle is nearly full. The sensor threshold has been reached.	See Waste toner bottle service check .
82.19	The waste toner bottle is nearly full. The user-selected EWS set point has been reached.	
82.31	Replace the waste toner bottle. The sensor end of life threshold has been reached.	

Waste Toner Bottle Service Check

Action	Yes	No
Step 1 Reseat the waste toner bottle. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Make sure that the printer is placed on a hard and flat surface. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Make sure that the waste toner bottle contacts and waste toner bottle contact block contacts are free from dust or debris. Does the problem remain?	Go to step 4.	The problem is solved.

Action	Yes	No
Step 4 Check the waste toner bottle contact block for proper connection and damage. Is the waste toner bottle contact block properly connected and free of damage?	Contact the next level of support.	Go to step 5.
Step 5 Replace the waste toner bottle contact block. See Waste toner bottle contact block removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

84 User Attendance Errors

84 User Attendance Error Messages

Error code	Description	Action
84.11	The imaging kit is low.	See Toner cartridge or photoconductor unit service check .
84.13		
84.19		
84.21	The imaging kit is very low.	
84.29		
84.31	Replace the imaging kit. Zero estimated pages remain.	
84.41	Replace the imaging kit. Zero estimated pages remain. Absolute end of life has been reached due to the PC rev counter.	
84.43	Replace the imaging kit. Zero estimated pages remain. Absolute end of life has been reached due to page count.	
84.48	Replace the imaging kit. Zero estimated pages remain. Absolute end of life has been reached due to exhausted Quanta.	

88 User Attendance Errors

88 User Attendance Error Messages

Error code	Description	Action
88.00	The toner cartridge is nearly low.	See Toner cartridge or photoconductor unit service check .
88.10	The toner cartridge is low.	
88.19		
88.20	The toner cartridge is very low.	
88.30	Replace the toner cartridge. Zero estimated pages remain.	
88.40		
88.48		

Toner Cartridge or Photoconductor Unit Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Make sure that the toner cartridge or photoconductor unit is installed. 2 Check if the toner cartridge or photoconductor unit is supported, and replace if necessary. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <ol style="list-style-type: none"> 1 Make sure that the toner cartridge or photoconductor unit is properly installed. 2 Make sure that the toner cartridge or photoconductor unit cables are properly connected. <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Check the toner cartridge or photoconductor unit contacts for damage, and replace if necessary. 2 Replace the imaging kit if necessary. See Imaging kit removal. 	Go to step 4.	The problem is solved.

Action	Yes	No
<p>See Supplies used to resolve print quality issues to determine which imaging kit to use.</p> <p>Does the problem remain?</p>		
<p>Step 4</p> <p>Check the controller board pins for damage.</p> <p>Are the controller board pins free of damage?</p>	Contact the next level of support.	Go to step 5.
<p>Step 5</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Non-supply User Attendance Errors

Non-Supply User Attendance Error Messages

Error code	Description	Action
35	Insufficient memory.	See Insufficient memory service check .
36	The resolution is reduced.	N/A
37	No memory for collation, defrag, or held jobs.	See Insufficient memory service check .
38	The memory is full.	See Insufficient memory service check .
39	Complex page.	See Complex page service check .
51	The flash memory is defective.	See Flash memory failure service check .
52	The flash memory is full.	See Insufficient flash memory service check .
53	Unformatted flash memory.	See Flash memory failure service check .
54	Serial port or network error.	See Flash memory failure service check .
55	The option is not supported.	See Unsupported internal option service check .

Error code	Description	Action
56	The parallel, serial, or USB port is disabled.	See Disabled port service check .
57	The configuration changed, and all held jobs are lost.	N/A
58	There are too many input options or trays.	See Excess options service check .
58.xx	The optional tray is defective or incorrectly installed.	See Invalid input option type or ID is detected service check .
59	The option or tray incompatible.	See Incompatible hardware option service check .
61	The hard disk is defective.	See Hard disk failure service check .
62	The hard disk is full.	
63	The hard disk is not formatted.	
64	The hard disk format is not supported.	

Insufficient Memory Service Check

Action	Yes	No
<p>Step 1</p> <p>1 Perform a POR.</p> <p>2 From the home screen, navigate to Settings > Print > Setup > Download Target > Disk.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>If applicable, install an extra memory card.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Check the controller board pins for damage.</p> <p>Are the pins free of damage?</p>	Contact the next level of support.	Go to step 4.
<p>Step 4</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Complex Page Service Check

Action	Yes	No
Step 1 1 Perform a POR. 2 From the home screen, 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 3.	The problem is solved.
Step 3 Check the controller board pins for damage. Are the pins free of damage?	Contact the next level of support.	Go to step 4.
Step 4 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Flash Memory Failure Service Check

Action	Yes	No
Step 1 1 From the home screen, navigate to Settings > Print > Job Accounting > Log Near Full Level . 2 Make sure that the value is set to the maximum. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check the controller board pins for damage. Are the pins free of damage?	Go to step 4.	Go to step 3.

Action	Yes	No
<p>Step 3</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Make sure that the printer is using the latest firmware version, and update if necessary.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Insufficient Flash Memory Service Check

Action	Yes	No
<p>Step 1</p> <p>From the home screen, navigate to Settings > USB Drive > Flash Drive Scan > Format Flash.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <ol style="list-style-type: none"> From the home screen, navigate to Settings > Print > Job Accounting > Log Near Full Level. Make sure that the value is set to the maximum. <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Check the controller board pins for damage.</p> <p>Are the pins free of damage?</p>	Go to step 5.	Go to step 4.
<p>Step 4</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Make sure that the printer is using the latest firmware version, and update if necessary.</p> <p>Does the problem remain?</p>	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. Are the pins free of damage?	Go to step 4.	Go to step 3.
Step 3 Replace the controller board. See Controller board removal . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Make sure that the printer is using the latest firmware version, 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 1 Make sure that the cables connected to the ports are properly installed. 2 Check the cables for damage, and replace if necessary. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Enter the Network/Ports menu and 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.


Action	Yes	No
Step 4 Check the controller board pins for damage. Are the pins free of damage?	Go to step 6.	Go to step 5.
Step 5 Replace the controller board. See Controller board removal . Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Make sure that the printer is using the latest firmware version, 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 Perform a POR, 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 1 If applicable, remove all internal options. 2 Perform a POR, 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 then remove the excess option. Does the problem remain?	Go to step 5.	The problem is solved.
Step 5	Go to step 6.	The problem is solved.

Action	Yes	No
Check the number of input options allowed, and then remove the excess input options. Does the problem remain?		
Step 6 Check the controller board pins for damage. Are the pins free of damage?	Contact the next level of support.	Go to step 7.
Step 7 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Incompatible Hardware Option Service Check

Action	Yes	No
Step 1  1 Reseat the hardware option cables. 2 Check the cables for damage, and replace if necessary. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check if the firmware version of the hardware option is supported by the engine firmware, and update the firmware if necessary. 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.

Hard Disk Failure Service Check

Action	Yes	No
<p>Step 1</p> <p>Delete unnecessary files.</p> <ul style="list-style-type: none"> From the home screen, navigate to Settings > Device > Maintenance > Out-of-Service Erase > Erase Hard Disk > Sanitize all information on hard disk. Select Erase downloads (Erase all macros, fonts, PFOs, etc.), Erase buffered jobs, and Erase held jobs > All held jobs. Touch Erase. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Make sure that the printer is using the latest firmware version.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <ol style="list-style-type: none"> Make sure that the hard disk cable is properly installed. Check the cable for damage, and replace if necessary. <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <ol style="list-style-type: none"> Make sure that the hard disk is properly installed. Check the hard disk for damage, and replace if necessary. <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.</p> <p>Are the pins free of damage?</p>	Contact the next level of support.	Go to step 6.
<p>Step 6</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Printer Hardware Errors

100 Errors

100 Error Messages

Error code	Description	Action
100.01	The weather station data is invalid.	See Weather station service check .
100.04D	The printhead temperature is below the range.	See Printhead service check .
100.25	<ul style="list-style-type: none"> The cavity thermistor on the sensor (toner patch) is out of range. The cavity and toner patch sensor thermistor reading is out of range. 	See Toner patch sensing service check .

110 Errors

110 Error Messages

Error code	Description	Action
110.20	The printhead error was detected before the motor was turned on.	See Printhead service check .
110.21	The printhead power was off when the laser servo started.	
110.31	The printhead error (no first Hysnc) was detected.	
110.32	The printhead error (lost first Hysnc) was detected.	
110.33	The printhead error (lost first Hysnc) was detected during servo.	
110.34	The printhead error (mirror motor lost lock) was detected.	
110.35	The printhead error (mirror motor no first lock) was detected.	
110.36	The printhead error (mirror motor never stabilized) was detected.	
110.41	The printhead NVRAM read failure occurred.	

Error code	Description	Action
110.70	The printhead NVRAM values were incorrect.	
110.71	The printhead timing measurement error was detected.	
110.90	The video cable was unplugged.	
110.91	The printhead timing reading error was detected.	
110.92	The printhead NVRAM checksum mismatch occurred.	

Printhead Service Check

Action	Yes	No
Step 1 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check the cables on the printhead and on the JMIRR1 and JPH1 connectors on the controller board for proper connection. Are the cables properly connected?	Go to step 4.	Go to step 3.
Step 3 Reconnect the cables. Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Check the printhead cable for damage, and replace if necessary. Does the problem remain?	Go to step 5.	The problem is solved.
Step 5 Replace the printhead. See Printhead removal . Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

120 Errors

120 Error Messages

Error code	Description	Action
120.80	The motor (fuser) does not turn on.	See Motor (fuser) service check .
120.81	The motor (fuser) does not turn off.	
120.82	The motor (fuser) failed to achieve the expected speed.	
120.83	The motor (fuser) stalled.	
120.84	The motor (fuser) is over speeding.	
120.85	The motor (fuser) is under speeding.	
120.86	The motor (fuser) moved too long.	

Motor (Fuser) Service Check

Action	Yes	No
Step 1 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check the fuser for damage or life expiration, and replace if necessary. See Fuser removal . Does the problem remain?	Go to step 3.	Go to step 4.
Step 3 Check the cable at the JFUSES2 connector on the controller board for proper connection. Is the cable properly connected?	Go to step 5.	Go to step 4.
Step 4 Reconnect the cable. Does the problem remain?	Go to step 5.	The problem is solved.

Action	Yes	No
Step 5 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 motor (fuser drive). See Motor (fuser drive) removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

121 Errors

121 Error Messages

Error code	Description	Action
121.00	The fuser failed to reach temperature during warm-up.	See Fuser service check .
121.01	Attempting to heat the fuser, but the fuser is not installed.	
121.02	Attempting to power up the fuser while it is too warm (belt: 50°C, lamp: 76°C) to execute EWC/line voltage detection after a Wrong Fuser Installed error had been previously declared.	
121.03	Fuser hardware and driver mismatch.	
121.04	Attempting to heat the fuser but the fuser relay is open, and the fuser PIC micro controller is not reporting an error or is not responding.	
121.05	Attempting to heat the fuser but the fuser relay is open, and the fuser PIC micro controller is reporting an error condition.	
121.06	The fuser has been too cold for too long while it is powered at 100%.	
121.07	The fuser is on for more than the allowed time after a gap blowout, and the temperature is still too cold.	

Error code	Description	Action
121.08	The fuser is too cold while paper is in the fuser.	
121.09	The fuser fell below the minimum required temperature for motors.	
121.10	The fuser did not warm up enough to start EWC/line voltage detection (belt: 60°C, lamp: 88°C) within time-out (belt: 10 seconds, lamp: 90 seconds).	
121.11	The fuser took too long to reach the final EWC/line detection temperature (belt: 90°C, lamp: 149°C).	
121.12	The fuser never reached final EWC/line detection temperature (belt: 90°C, lamp: 149°C).	
121.13	The fuser heated too fast to the final EWC/line detection temperature (belt: 90°C, lamp: 149°C).	
121.15	The heater power is too high.	

Error code	Description	Action
121.16	The heater power is too low.	See Fuser service check .
121.17	A fuser heater runaway is detected on the LV machine.	
121.18	A fuser heater runaway is detected on the HV machine.	
121.19	The fuser high power trace heated to the final EWC/line detection temperature too fast.	
121.20	The fuser high power trace heating rate from 165°C to 180°C exceeded the error threshold.	
121.20	The fuser is too cold during steady state control. This event can occur during printing or standby modes.	
121.21	The fuser low power trace heating rate from 165°C to 180°C exceeded the error threshold.	
121.22	Open fuser relay detected.	

Error code	Description	Action
121.23	The fuser reached the final EWC/line detection temperature (belt: 90°C, lamp: 149°C).	
121.24	The fuser never reached the final EWC/line detection temperature (belt: 90°C, lamp: 149°C).	
121.25	After the line voltage detection, the controller did not roll over to the steady state control in time.	
121.26	The fuser failed to reach the temperature during warm-up.	
121.28	The fuser failed to reach the EP warm-up temperature in time.	
121.30	The fuser has been on for too long after a gap blowout, and the temperature is still too cold.	
121.31	The fuser is too hot.	
121.32	The fuser is too cold for too long while its power is at 100 %.	
121.33	The fuser is too cold when the paper is in the fuser.	

Error code	Description	Action
121.34	The fuser is too cold during steady state control when a paper is not in the fuser. This event can occur during printing or standby modes.	See Fuser service check .
121.35	Attempting to power up with the fuser too warm (belt: 50°C, lamp: 76°C) to execute EWC/line voltage detection after a Wrong Fuser Installed error was previously declared.	
121.36	An open fuser relay was detected with very cold, or unknown ambient temperature.	
121.37	The fuser heated to the final EWC/line detection temperature (belt: 90°C, lamp: 149°C) too fast.	
121.38	Fuser UBER defect detection. Belt to heater temperature delta exceeded.	

Error code	Description	Action
121.41	Fuser mechanism did not detect the expected cam sensor signal.	
121.42	The fuser gate time is increasing out of control.	
121.48	Fuser hardware and driver mismatch.	
121.50	The fuser went over the required temperature during a global over temperature check.	
121.51	The fuser secondary heater is too hot.	
121.52	The main thermistor temperature is out of range.	
121.53	The main thermistor temperature change rate is out of range.	
121.54	The secondary thermistor temperature is out of range.	
121.55	The secondary thermistor temperature change rate is out of range.	
121.56	The middle thermistor temperature is out of range.	

Error code	Description	Action
121.57	The middle thermistor temperature change rate is out of range.	See Fuser service check .
121.58	The edge thermistor temperature is out of range.	
121.59	The edge thermistor temperature change rate is out of range.	
121.60	The belt contact thermistor temperature is out of range.	
121.61	The belt contact thermistor temperature change rate is out of range.	
121.62	The belt non contact thermistor temperature is out of range.	
121.63	The belt non contact thermistor temperature change rate is out of range.	

Error code	Description	Action
121.64	The belt non contact 2 thermistor temperature is out of range.	
121.65	The belt non contact 2 thermistor temperature change rate is out of range.	
121.66	The narrow media thermistor temperature is out of range.	
121.67	The narrow media thermistor temperature change rate is out of range.	
121.70	The calculated heater resistance is too high.	
121.71	Open fuser main heater thermistor.	
121.72	Open fuser secondary heater thermistor.	
121.73	Open fuser middle heater thermistor.	
121.74	Open fuser edge thermistor.	
121.76	Open contact belt thermistor.	

Fuser Service Check

Action	Yes	No
<p>Step 1</p> <p>Some of these errors are caused by a faulty component on the LVPS. Check the history file in the printer to verify other occurrences. If there are other occurrences, then replace the LVPS. See LVPS removal.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Check the cable on the JFUSES2 connector on the controller board for proper connection and damage, and replace if necessary. 	Go to step 3.	The problem is solved.

Action	Yes	No
Does the problem remain?		
Step 3 Check the cable on the JLVPS1 connector on the controller board for proper connection and damage, and replace if necessary. Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 1 Open the front door. 2 Remove the right cover. See Right cover removal . 3 Check the power cable and the thermistor cables for proper connection and damage. Are the cables properly connected and free of damage?	Go to step 6.	Go to step 5.
Step 5 Replace the damaged cables. If the cables cannot be replaced, then replace the fuser. See Fuser removal . Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Check the following voltage values on the JFUSES2 connector pins on the controller board: <ul style="list-style-type: none"> • Pin 1: +24 V dc (door closed) • Pin 2: +24 V dc (doors closed) • Pin 3: +24 V dc (doors closed) • Pin 4: +24 V dc (doors closed) • Pin 5: Between 0.6 and 3.28 V dc • Pin 6: Ground • Pin 8: Ground • Pin 10: Between -3 and +3.3 V dc • Pin 11: Ground (no wire) Are the voltage values approximately the same?	Go to step 7.	Go to step 8.

Action	Yes	No
Step 7 Replace the fuser. See Fuser removal . Does the problem remain?	Contact the next level of support.	The problem is solved.
Step 8 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

126 Errors

126 Error Messages

Error code	Description	Action
126.05	The LVPS dropped while not sleeping.	See LVPS service check .
126.06	An LVPS 25 V line error was detected.	
126.07	An LVPS 5 V rail was down during POR.	
126.10	No line frequency was detected.	
126.11	Line frequency has gone outside the operating range.	

LVPS Service Check

Action	Yes	No
Step 1 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check the cable on the JLVP1 connector on the controller board for proper connection and damage, and replace if necessary. Does the problem remain?	Go to step 3.	The problem is solved.

Action	Yes	No
Step 3 Replace the LVPS. See LVPS removal . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

142 Errors

142 Error Messages

Error code	Description	Action
142.80	The motor (CMY) does not turn on.	See Motor (EP drive) service check .
142.81	The motor (CMY) does not turn off.	
142.82	The motor (CMY) failed to achieve the expected speed.	
142.83	The motor (CMY) stalled.	
142.84	The motor (CMY) is running too slow.	
142.85	The motor (CMY) is running too fast.	
142.86	The motor (CMY) moved too long.	

Motor (EP Drive) Service Check

Action	Yes	No
Step 1 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 1 Remove the imaging kit. See Imaging kit removal . 2 Enter the Diagnostics menu, and then navigate to:	Go to step 3.	Go to step 7.

Action	Yes	No
<p>Printer diagnostics & adjustments > Motor tests > CMY developer</p> <p>3 Press OK or touch Start.</p> <p>Does the motor run?</p>		
<p>Step 3</p> <p>1 Remove the imaging kit. See Imaging kit removal.</p> <p>2 Remove the transfer module. See Transfer module removal.</p> <p>3 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Motor tests > K/ITM developer</p> <p>4 Press OK or touch Start.</p> <p>Does the motor run?</p>	Go to step 4.	Go to step 7.
<p>Step 4</p> <p>Manually turn the black developer unit and transfer module drive gears.</p> <p>Do the gears freely turn?</p>	Go to step 6.	Go to step 5.
<p>Step 5</p> <p>Replace the EP drive. See EP drive assembly removal.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Check the imaging kit and transfer module for damage or life expiration, and replace if necessary. See Imaging kit removal and Transfer module removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.
<p>Step 7</p> <p>1 Make sure that the cable on the motor (EP drive) is properly connected.</p> <p>2 Make sure that the cables on the JCARTP1 and JCARTS1 connectors on the controller board are properly connected.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.

Action	Yes	No
Step 8 Check the cables for damage and replace if necessary. Does the problem remain?	Go to step 9.	The problem is solved.
Step 9 Replace the motor (drive unit). See Motor (drive unit) removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

151 Errors

151 Error Messages

Error code	Description	Action
151.80	The motor (K/ITM) does not turn on.	See Motor (EP drive) service check .
151.81	The motor (K/ITM) does not turn off.	
151.82	The motor (K/ITM) failed to achieve the expected speed.	
151.83	The motor (K/ITM) stalled.	
151.84	The motor (K/ITM) is running too slow.	
151.85	The motor (K/ITM) is running too fast.	
151.86	The motor (K/ITM) moved too long.	

160 Errors

160 Error Messages

Error code	Description	Action
160.80	The motor (MPF) does not turn on.	See Option tray motor service check .
160.81	The motor (MPF) does not turn off.	
160.82	The motor (MPF) failed to achieve the expected speed.	

Error code	Description	Action
160.83	The motor (MPF) stalled.	
160.84	The motor (MPF) is running too slow.	
160.85	The motor (MPF) is running too fast.	
160.86	The motor (MPF) moved too long.	

Option Tray Motor Service Check

Action	Yes	No
<p>Step 1</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Additional input tray diagnostics > Motor Tests</p> <p>2 Select Pick (tray x) motor test, and then press OK or touch Start.</p> <p>Make sure to perform the motor test in both directions.</p> <p>3 Select Pass-through (tray x) motor test, and then press OK or touch Start.</p> <p>Make sure to perform the motor test in both directions.</p> <p>Did the motors run?</p>	Go to step 2.	Go to step 3.
<p>Step 2</p> <p>Perform a print test.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Make sure that the option connector in the subframe is properly connected to the tray 2 option.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Make sure that cable on the JOPT1 connector on the controller board is properly connected.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.

Action	Yes	No
Step 5 Check the option cable for continuity, and replace if necessary. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Check the option tray connections for damage, and replace the affected tray if necessary. Does the problem remain?	Contact the next level or support.	The problem is solved.

161 Errors

161 Error Messages

Error code	Description	Action
161.80	The motor (tray 1 pick) does not turn on.	See Motor (tray 1 pick/duplex) service check .
161.81	The motor (tray 1 pick) does not turn off.	
161.82	The motor (tray 1 pick) failed to achieve the expected speed.	
161.83	The motor (tray 1 pick) stalled.	
161.84	The motor (tray 1 pick) is running too slow.	
161.85	The motor (tray 1 pick) is running too fast.	
161.86	The motor (tray 1 pick) moved too long.	

Motor (Tray 1 Pick/Duplex) Service Check

Action	Yes	No
Step 1 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 1 Remove tray 1.	Go to step 3.	Go to step 4.

Action	Yes	No
<p>2 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Motor tests > Pick (tray 1) / Duplex</p> <p>3 Select Tray 1 Picking, and then press OK or touch Start.</p> <p>Make sure to perform the motor test in both directions.</p> <p>4 Select Tray 1 Duplex, and then press OK or touch Start.</p> <p>Make sure to perform the motor test in both directions.</p> <p>Did the motors run?</p>		
<p>Step 3</p> <p>Make sure that cable on the JSP1 connector on the controller board is properly connected.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 4</p> <p>Check the cable for damage.</p> <p>Is the cable damaged?</p>	Go to step 5.	Go to step 6.
<p>Step 5</p> <p>Replace the media feeder. See Tray 1 media feeder removal.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support	The problem is solved.

162 Errors

162 Error Messages

Error code	Description	Action
162.80	The motor (tray 2 pick) does not turn on.	See Option tray motor service check .

Error code	Description	Action
162.81	The motor (tray 2 pick) does not turn off.	
162.82	The motor (tray 2 pick) failed to achieve the expected speed.	
162.83	The motor (tray 2 pick) stalled.	
162.84	The motor (tray 2 pick) is running too slow.	
162.85	The motor (tray 2 pick) is running too fast.	
162.86	The motor (tray 2 pick) moved too long.	

163 Errors

163 Error Messages

Error code	Description	Action
163.80	The motor (tray 3 pick) does not turn on.	See Option tray motor service check .
163.81	The motor (tray 3 pick) does not turn off.	
163.82	The motor (tray 3 pick) failed to achieve the expected speed.	
163.83	The motor (tray 3 pick) stalled.	
163.84	The motor (tray 3 pick) is running too slow.	
163.85	The motor (tray 3 pick) is running too fast.	
163.86	The motor (tray 3 pick) moved too long.	

166 Errors

166 Error Messages

Error code	Description	Action
166.80	The motor (tray 2 transport) does not turn on.	See Option tray motor service check .

Error code	Description	Action
166.81	The motor (tray 2 transport) does not turn off.	
166.82	The motor (tray 2 transport) failed to achieve the expected speed.	
166.83	The motor (tray 2 transport) stalled.	
166.84	The motor (tray 2 transport) is running too slow.	
166.85	The motor (tray 2 transport) is running too fast.	
166.86	The motor (tray 2 transport) moved too long.	

167 Errors

167 Error Messages

Error code	Description	Action
167.80	The motor (tray 3 transport) does not turn on.	See Option tray motor service check .
167.81	The motor (tray 3 transport) does not turn off.	
167.82	The motor (tray 3 transport) failed to achieve the expected speed.	
167.83	The motor (tray 3 transport) stalled.	
167.84	The motor (tray 3 transport) is running too slow.	
167.85	The motor (tray 3 transport) is running too fast.	
167.86	The motor (tray 3 transport) moved too long.	

171 Errors

171 Error Messages

Error code	Description	Action
171.82	Main fan error.	See Main fan service check .
171.83		
171.84		
171.85		

Main Fan Service Check

Action	Yes	No
Step 1 Check the main fan area for obstructions. Is the fan area free from obstructions?	Go to step 3.	Go to step 2.
Step 2 Remove the obstructions. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Check the cable on the JFAN2 connector on the controller board for proper connection. Is the cable properly connected?	Go to step 5.	Go to step 4.
Step 4 Reconnect the cable. Does the problem remain?	Go to step 5.	The problem is solved.
Step 5 Replace the main fan. See System fan removal . Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

600 Errors

600 Error Message

Error code	Description	Action
600.95	The printer intentionally declared a jam. This event is typically used to prevent a kiosk user from printing free pages.	Perform a POR.

602 Errors

602 Error Messages

Error code	Description	Action
602.x8	The tray [x] timed out while waiting for the ILN command.	See Engine error service check .
602.x9	The tray [x] failed to become the input source.	

x = tray number

Engine Error Service Check

Action	Yes	No
Step 1 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 1 Remove the rear cover. See Rear cover removal . 2 Reseat all the cables on the controller board. 3 Check the controller board contacts and pins for damage. Is the controller board free of damage?	Contact the next level of support.	Go to step 3.
Step 3 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

620 Errors

620 Error Messages

Error code	Description	Action
620.80	The motor (fuser) does not turn on.	See Motor (fuser) service check .
620.81	The motor (fuser) does not turn off.	
620.82	The motor (fuser) failed to achieve the expected speed.	
620.83	The motor (fuser) stalled.	
620.84	The motor (fuser) is running too slow.	
620.85	The motor (fuser) is running too fast.	
620.86	The motor (fuser) moved too long.	
621.01	The fuser heater was too cold when the paper entered the fuser nip.	See Fuser service check .

642 Errors

642 Error Messages

Error code	Description	Action
642.80	The motor (CMY) does not turn on.	See Motor (EP drive) service check .
642.81	The motor (CMY) does not turn off.	
642.82	The motor (CMY) failed to achieve the expected speed.	
642.83	The motor (CMY) stalled.	
642.84	The motor (CMY) is running too slow.	
642.85	The motor (CMY) is running too fast.	
642.86	The motor (CMY) moved too long.	

651 Errors

651 Error Messages

Error code	Description	Action
651.80	The motor (K/ITM) does not turn on.	See Motor (EP drive) service check .
651.81	The motor (K/ITM) does not turn off.	
651.82	The motor (K/ITM) failed to achieve the expected speed.	
651.83	The motor (K/ITM) stalled.	
651.84	The motor (K/ITM) is running too slow.	
651.85	The motor (K/ITM) is running too fast.	
651.86	The motor (K/ITM) moved too long.	

661 Errors

661 Error Messages

Error code	Description	Action
661.80	The motor (tray 1 pick) does not turn on.	See Motor (tray 1 pick/duplex) service check .
661.81	The motor (tray 1 pick) does not turn off.	
661.82	The motor (tray 1 pick) failed to achieve the expected speed.	
661.83	The motor (tray 1 pick) stalled.	
661.84	The motor (tray 1 pick) is running too slow.	
661.85	The motor (tray 1 pick) is running too fast.	
661.86	The motor (tray 1 pick) moved too long.	

662 Errors

662 Error Messages

Error code	Description	Action
662.70	The motor (tray 2 pick) does not turn on.	See Option tray motor service check .
662.71	The motor (tray 2 pick) does not turn off.	
662.72	The motor (tray 2 pick) failed to achieve the expected speed.	
662.73	The motor (tray 2 pick) stalled.	
662.74	The motor (tray 2 pick) is running too slow.	
662.75	The motor (tray 2 pick) is running too fast.	
662.76	The motor (tray 2 pick) moved too long.	

663 Errors

663 Error Messages

Error code	Description	Action
663.70	The motor (tray 3 pick) does not turn on.	See Option tray motor service check .
663.71	The motor (tray 3 pick) does not turn off.	
663.72	The motor (tray 3 pick) failed to achieve the expected speed.	
663.73	The motor (tray 3 pick) stalled.	
663.74	The motor (tray 3 pick) is running too slow.	
663.75	The motor (tray 3 pick) is running too fast.	
663.76	The motor (tray 3 pick) moved too long.	

666 Errors

666 Error Messages

Error code	Description	Action
666.70	The motor (tray 2 transport) does not turn on.	See Option tray motor service check .
666.71	The motor (tray 2 transport) does not turn off.	
666.72	The motor (tray 2 transport) failed to achieve the expected speed.	
666.73	The motor (tray 2 transport) stalled.	
666.74	The motor (tray 2 transport) is running too slow.	
666.75	The motor (tray 2 transport) is running too fast.	
666.76	The motor (tray 2 transport) moved too long.	

667 Errors

667 Error Messages


Error code	Description	Action
667.70	The motor (tray 3 transport) does not turn on.	See Option tray motor service check .
667.71	The motor (tray 3 transport) does not turn off.	
667.72	The motor (tray 3 transport) failed to achieve the expected speed.	
667.73	The motor (tray 3 transport) stalled.	
667.74	The motor (tray 3 transport) is running too slow.	
667.75	The motor (tray 3 transport) is running too fast.	
667.76	The motor (tray 3 transport) moved too long.	

Procedure Before Starting The 9y Service Checks

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

 **Warning:** 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**.

 **Note:**

- 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


 **Note:**

- 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](#).

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.

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	Unrecoverable RIP software error/ illegal trap.	See 900 service error check .


900 Error Service Check

Action	Yes	No
Step 1 <ul style="list-style-type: none"> Perform a POR. Check if a 900.xx error code appears on the display. Does a 900.xx error code appear?	Go to step 4.	Go to step 2.
Step 2 <p>Check if another type of error code appears instead of the 900.xx error code.</p> Does a different error code appear?	Go to step 3.	Go to step 4.
Step 3 <p>See the error code and its service instructions in the printer service manual.</p> Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 <ul style="list-style-type: none"> Turn off the printer. At the rear of the printer, disconnect the network cable, USB cable, and the fax line. Turn on the printer. Does the problem remain?	Go to step 12.	Go to step 5.
Step 5 <ul style="list-style-type: none"> From the control panel, navigate to the Reports menu. Select Device Statistics and Device Settings. Does the problem remain?	Go to step 12.	Go to step 6.
Step 6 <p>Check if the printer has a scanner.</p> Does the printer have a scanner?	Go to step 7.	Go to step 8.
Step 7 <p>Using the scanner, perform a one-page copy job in color.</p> Does the problem remain?	Go to step 12.	Go to step 8.
Step 8 <ul style="list-style-type: none"> Turn off the printer. 	Go to step 9.	Go to step 10.

Diagnostics and Troubleshooting

Action	Yes	No
<ul style="list-style-type: none"> At the rear of the printer, connect the network cable, USB cable, and the fax line. Turn on the printer. <p>Does the problem remain?</p>		
<p>Step 9</p> <ul style="list-style-type: none"> Start the printer in Invalid engine mode. See Entering invalid engine mode Check if an Invalid Engine Code message appears. <p>Does the Invalid Engine Code message appear?</p>	Go to step 10.	Contact the next level of support.
<p>Step 10</p> <p>Using the Device Settings report that is printed in step 5, check if the firmware level is older than the latest available version.</p> <p>Is the firmware version older, and does the customer agree to update the firmware?</p>	Go to step 11.	Contact the next level of support.
<p>Step 11</p> <p>Update the firmware to the latest version.</p> <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 12</p> <ul style="list-style-type: none"> Turn off the printer. Make sure that all the cables on the controller board and scanner are properly connected. Turn on the printer. From the control panel, navigate to the Reports menu, and then select Device Statistics and Device Settings. For MFPs, perform a one-page copy and scan job in color. <p>Does the problem remain?</p>	Go to step 13.	The problem is solved.
<p>Step 13</p> <p>Check if a hard disk is installed.</p> <p>Is a hard disk installed?</p>	Go to step 14.	Go to step 17.
<p>Step 14</p>	Go to step 15.	The problem is solved.

Action	Yes	No
<ul style="list-style-type: none"> Check for buffered print jobs, and then delete them. See Hard disk failure service check. Perform a POR. <p>Does the problem remain?</p>		
<p>Step 15</p> <ul style="list-style-type: none"> Turn off the printer. Uninstall the hard disk drive. Perform a POR. <p>Does the problem remain?</p>	Go to step 17.	Go to step 16.
<p>Step 16</p> <p>Replace the hard disk.</p> <p>Does the problem remain?</p>	Go to step 17.	The problem is solved.
<p>Step 17</p> <p>Check if the printer has any of the following components installed:</p> <ul style="list-style-type: none"> Memory options Fax card Modem Wireless and network option cards <p>Is any of the components installed?</p>	Go to step 18.	Go to step 21.
<p>Step 18</p> <ul style="list-style-type: none"> Turn off the printer. Remove all the installed components. Turn on the printer. <p>Does the problem remain?</p>	Go to step 21.	Go to step 19.
<p>Step 19</p> <ul style="list-style-type: none"> Turn off the printer. Install the following components one at a time: <ul style="list-style-type: none"> Memory options Fax card Modem Wireless and network option cards 	Go to step 20.	The problem is solved.

Action	Yes	No
 Note: Make sure to perform a POR after installing each component. Does the problem remain?		
Step 20 <ul style="list-style-type: none"> • Turn off the printer. • Replace the components that caused the error. • Turn on the printer. Does the problem remain?	Go to step 21.	The problem is solved.
Step 21 Replace the controller board. See Controller board removal Does the problem remain?	Contact the next level of support.	The problem is solved.

91y Errors

91y Error Messages

Error code	Description	Action
910.xx	General engine software error.	See 91x.xx (910.xx–919.xx) Engine software service check .
911.xx		
912.xx		
913.xx	General engine software error.	See 913.xx error code check .
914.xx	General engine software error.	See 91x.xx (910.xx–919.xx) Engine software service check .
915.xx		
916.xx		
917.xx		
918.xx		
919.xx		

91x.xx (910.xx–919.xx) Engine Software Service Check

Actions	Yes	No
Step 1 1 Remove the rear cover. See Rear cover removal . 2 Check the cables on the controller board for proper connection. Are the cables properly connected?	Go to step 2.	Go to step 3.
Step 2 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.
Step 3 Reconnect the cables, and then perform a POR. Does the problem remain?	Contact the next level of support.	The problem is solved.

913.xx Error Code Check

Actions	Yes	No
Step 1 1 Turn off the printer, and then remove the rear cover. See Rear cover removal . 2 Make sure all cable connections on the controller board are secure. Are all cable connections secure?	Go to step 3.	Go to step 2.
Step 2 1 Reconnect any loose cables. 2 Print multiple print tests. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Replace the motor (fuser drive). See Motor (fuser drive) removal . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

938 Errors

938 Error Messages

Error code	Description	Action
938.01	The board level was not obtained.	See Controller board removal .
938.02	Timed out while waiting for the bullet serial data to be updated.	
938.03	The NVM_OK was not received from the NV2 server for a successfully submitted request.	
938.04	An over temperature condition is detected.	

95y Errors

95y Error Messages

Error code	Description	Action
950.xx	The controller EEPROM and mirror are mismatched. <ul style="list-style-type: none"> 950.00 through 950.29 codes —Mismatch between the controller and mirror. 950.30 through 950.60 codes —Mismatch between the secure and controller. 	See 950.xx NVRAM Failure Service Check .
951.xx	Error NV part on controller board.	See Controller board removal .
952.xx	A recoverable NVRAM cyclic redundancy check (CRC) error occurred. <i>n</i> is the offset at which the error occurred.	Performing a POR clears this error.
953.xx	NVRAM chip failure with mirror. <ol style="list-style-type: none"> 1 Perform a POR. 2 If the problem persists, then replace the UICC card. 	See 4.3-inch Control Panel Removal .
954.xx	The NVRAM chip failure with controller part.	See 950.xx NVRAM Failure Service Check .

Error code	Description	Action
955.xx	<p>The Code ROM or NAND flash failed the cyclic redundancy check (CRC) check or the NAND experienced an uncorrectable multi-bit failure. <loc> indicates the source of the failure and has one of the following values:</p> <ul style="list-style-type: none"> • CRC Failure—The source is a failing package indicated by <i>Pn</i> where <i>n</i> is the package number. This error can occur on a controller with ROM or NAND flash, and can occur as a result of the CRC check done when the printer is powered on. The range of package numbers is from 0–15. • Error Correction Code (ECC) Failure—The source is a failing page indicated by <i>Bn</i> where <i>n</i> is the page number. This error occurs only if a multi-bit failure is detected during the ECC execution. Single bit failures are corrected automatically and will not result in a service error. The range of page numbers is from 0–1023. 	
956.xx	<ul style="list-style-type: none"> • Controller board failure. • Processor failure. • Check on .02 for fan error. 	
957.xx	<ul style="list-style-type: none"> • Controller board failure. • ASIC failure. 	
958.xx	The printer has performed more than 100 shift and reflash operations as a result of ECC bit corrections.	
959.xx	Controller verification failure of system boot code.	See .
959.0x	System hardware failure.	See Controller board removal .

950.xx NVRAM Failure Service Check




Warning: When replacing any of the following components, replace only one component at a time or the printer will be inoperable:



Note:

Diagnostics and Troubleshooting

- This error indicates that the control panel and the controller board are mismatched.
- Replace the required component, enter the Diagnostics menu, and then verify that the problem is fixed before performing a POR.

Actions	Yes	No
<p>Step 1</p> <p>Check if the control panel has been replaced.</p> <p>Has the control panel been replaced?</p>	Go to step 2.	Go to step 3.
<p>Step 2</p> <p>Replace the control panel UICC card with a new, and not previously installed UICC card. See 4.3-inch Control Panel Removal.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Check if the controller board has been replaced.</p> <p>Has the controller board been replaced?</p>	Go to step 4.	Go to step 5.
<p>Step 4</p> <p>Replace the controller board with a new, and not previously installed controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Perform a POR.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Clear the NVRAM of the printer:</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 With the printer off, press and hold buttons 6, 7, and 8 on the numeric keypad. 3 Turn on the printer. 4 When Clear NVRAM appears, release the buttons. <p> Note:</p> <ul style="list-style-type: none"> • If the printer looks up on the Restoring Factory 	Go to step 7.	The problem is solved.

Actions	Yes	No
<p>Defaults, then wait for two minutes, and then turn off the printer.</p> <ul style="list-style-type: none"> After 10 seconds, turn on the printer. <p>Does the problem remain?</p>		
<p>Step 7</p> <p>Replace the control panel. See 4.3-inch Control Panel Removal.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Invalid Firmware/controller Board Service Check

Action	Yes	No
<p>Step 1</p> <p>Update the firmware.</p> <p>Contact the next level of support for the correct firmware level.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

96y Errors

96y Error Messages

Error code	Description	Action
960.xx	RAM memory error—The RAM soldered on the board is bad.	See Controller board removal .
964.xx	<ul style="list-style-type: none"> A download emulation cyclic redundancy check (CRC) failure has occurred. A checksum failure was detected in the emulation header or emulation file. 	See Download emulation cyclic redundancy service check .

Download Emulation Cyclic Redundancy Service Check

Action	Yes	No
Step 1 Disable the download emulation, and then program the download emulation into the firmware card again. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Replace the firmware card, and then download the emulation to the new card. Does the problem remain?	Contact the next level of support.	The problem is solved.

97y Errors

97y Error Messages

Error code	Description	Action
975.xx 975.xx	Network error—Unrecognizable network port.	Replace the standard network card, or the card in the specified slot.
976.xx	Unrecoverable software or error in the network or network card [x].	See Standard network/network card error service check .

Error code	Description	Action
978.xx	Bad checksum while programming the standard network or network card [x] port.	See Standard network/network card programming error service check .
979.xx	Flash parts failed while programming the standard network or network card [x] port.	See Standard network/network card error service check .

Standard Network/network Card Error Service Check

Action	Yes	No
Step 1 Check if the network card is installed. Is the network card installed?	Go to step 2.	Go to step 3.
Step 2 Make sure that the network card is properly installed. Does the problem remain?	Contact the next level of support.	The problem is solved.
Step 3 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Standard Network/Network Card Programming Error Service Check

Action	Yes	No
Step 1 Make sure that you downloaded the code in binary mode and not in ASCII, and then reprogram the network card. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check if the network card is installed. Is the network card installed?	Go to step 3.	Go to step 4.

Action	Yes	No
Step 3 Make sure that the network card is properly installed. Does the problem remain?	Contact the next level of support.	The problem is solved.
Step 4 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

980-984 Errors

980–984 Error Messages

Error code	Description	Action
980.xx	The engine is experiencing unreliable communication with the specified device. <device> can be one of the following: <ul style="list-style-type: none"> • Tray 2 • Tray 3 	See Options communication error service check .
981.xx	The specified device detects an engine protocol violation. <device> can be one of the following: <ul style="list-style-type: none"> • Tray 2 • Tray 3 	
982.xx	The specified device detects a communication error. <device> can be one of the following: <ul style="list-style-type: none"> • Tray 2 • Tray 3 	
983.xx	The specified device receives an invalid command. <device> can be one of the following: <ul style="list-style-type: none"> • Tray 2 • Tray 3 	

Error code	Description	Action
984.xx	The specified device receives an invalid command parameter. <device> can be one of the following: <ul style="list-style-type: none"> • Tray 2 • Tray 3 	

99y Errors

99y Error Messages

Error code	Description	Action
990.xx	An equipment check condition occurred, but the exact component failure was not determined.	See Options communication error service check .
991.xx	An equipment check condition occurred in the controller card.	
992.xx	General software error.	

Options Communication Error Service Check

Action	Yes	No
Step 1 1 Check if the firmware is updated, and update if necessary. 2 Make sure that the printer supports the option. See the Printer, Option, and Stand Compatibility Guide. 3 Make sure that the option is properly attached to the printer or adjacent option. 4 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Reseat the printer interface cable on the printer controller board. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3	Go to step 4.	Contact the next level of support.

Diagnostics and Troubleshooting

Action	Yes	No
<p>Do the following to each option:</p> <ol style="list-style-type: none"> 1 Reinstall the option. 2 Print a test page, and then check if the option is properly working. <p>Are all options properly working?</p>		
<p>Step 4</p> <p>Reseat the option interface cable.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Check the option interface cable for proper connection and damage, and replace if necessary.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

ADF/Scanner Hardware Errors

84y Errors

84y Error Messages

Error code	Description	Action
840.01	The scanner is disabled by the administrator.	See .
840.02	The scanner is disabled for other reasons. For example, invalid license, and too many hardware errors.	
842.00	Non-responsive scanner communication failure.	See .
842.01	Hardware protocol scanner communication failure.	
842.02	Logical protocol scanner communication failure.	
843.00	<ul style="list-style-type: none"> Scanner mechanical failure. The flatbed carriage failed to return to the home position. 	See .
843.01	ADF scanner mechanical failure.	See .

Scan/Fax/Copy Symptoms

Symptom	Action
The ADF does not scan both sides of the document.	See ADF Duplex Service Check .
The scanned image using the ADF is skewed.	See .
Multiple documents feed into the ADF.	
Documents do not feed into the ADF.	
The scanner makes a buzzing noise on startup or during a scan.	See .
The page is blank.	See .
The page is black.	
No dial tone.	See .
The printer does not connect to a fax machine.	The fax machine is turned off. Ask the fax recipient to check the machine.

Symptom	Action
Incoming fax has blank spaces or poor quality.	See .
Incoming fax has stretched words.	See .
The printer does not transmit faxes.	See .
The printer does not receive faxes.	See Fax Reception Service Check .
The ADF makes a rattling noise.	See .
The scanner carriage does not move during a scan.	See .

Scanner Disabled Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Perform a POR, and then enter the Configuration mode. 2 In the Disable scanner menu, select Enabled. 3 Perform a POR. 4 Perform a copy job from the ADF and flatbed, and then check if an 840.xx error message appears. <p>Did an 840.xx error message appear?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <ol style="list-style-type: none"> 1 Enter the Configuration mode, and then select Disabled. 2 Perform a POR, and then enter the Configuration mode. 3 Select Disabled. 4 Check if the ADF disabled or Auto Disabled message appears. <p>Did the ADF disabled or Auto Disabled message appear?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Replace the ADF assembly. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF). 2 Perform a POR, and then enter the Configuration mode. 3 In the Disable scanner menu, select Enabled. 4 Perform a POR. 	Go to step 4.	The problem is solved.

Action	Yes	No
<p>5 Perform a copy job from the ADF and flatbed, and then check if an 840.xx error message appears.</p> <p>Did an 840.xx error message appear?</p>		
<p>Step 4</p> <p>Make sure that the cables on the JFBCIS1 and JBSCIS1 connectors (CX52x and CX62x only) on the controller board are properly connected.</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>1 Replace the ADF assembly. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF).</p> <p>2 Perform a POR, and then enter the Configuration mode.</p> <p>3 In the Disable scanner menu, select Enabled.</p> <p>4 Perform a POR.</p> <p>5 Perform a copy job from the ADF and flatbed, and then check if an 840.xx error message appears.</p> <p>Did an 840.xx error message appear?</p>	Contact the next level of support.	The problem is solved.

Scanner Communication Service Check

Action	Yes	No
<p>Step 1</p> <p>1 Reseat the cable at the JADF1 connector on the controller board.</p> <p>2 For the CX52x and CX62x models, reseat the cable at the JBSCIS1 connector on the controller board.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Reseat the cable at the JFBCIS1 connector on the controller board.</p>	Go to step 3.	The problem is solved.

Action	Yes	No
Does the problem remain?		
Step 3 Replace the ADF. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF) . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Replace the flatbed scanner. See Flatbed Scanner Assembly Removal . Does the problem remain?	Go to step 5.	The problem is solved.
Step 5 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Flatbed Home Position Service Check

Action	Yes	No
Step 1 Turn off the printer, and then check if the CIS returns to the home position. Did the CIS return to the home position?	The problem is solved.	Go to step 2.
Step 2 1 Enter the Diagnostics menu, and then navigate to: Scanner diagnostics > Sensor tests 2 Find the sensor (FB scanner home). Does the sensor status change while toggling the sensor?	Go to step 4.	Go to step 3.
Step 3 Reseat the cable at the JHS1 connector on the controller board. Does the problem remain?	Go to step 4.	The problem is solved.

Action	Yes	No
Step 4 Reseat the cable at the JFB1 connector on the controller board. Does the problem remain?	Go to step 5.	The problem is solved.
Step 5 Measure the voltage of pin 1 on the JFB1 connector on the controller board. Is the voltage equal to +24 V dc?	Go to step 7.	Go to step 6.
Step 6 Replace the controller board. See Controller board removal . Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 Measure the voltage of pin 1 on the JHS1 connector on the controller board. Pin 2 is ground. Is the voltage equal to +3.3 V ac?	Go to step 8.	Contact the next level of support.
Step 8 Replace the flatbed scanner. See Flatbed Scanner Assembly Removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

ADF Failure Service Check

Action	Yes	No
Step 1 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 1 Reseat the cable at the JADF1 connector on the controller board. 2 For the CX52x and CX62x models, reseat the cable at the JFBCIS1 and JBSCIS1 connectors on the controller board.	Go to step 3.	The problem is solved.

Action	Yes	No
Does the problem remain?		
Step 3 Replace the ADF. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF) . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Flatbed CIS Service Check

Action	Yes	No
Step 1 1 Perform a POR. 2 Perform multiple scan or copy jobs. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Make sure that the CIS cable is properly connected to the JFBCIS1 connector on the controller board. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Replace the flatbed scanner. See Flatbed Scanner Assembly Removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Black or Blank Page Copy Service Check

Action	Yes	No
Step 1 Print a test page. Is the test page black?	Go to step 2.	Go to step 3.
Step 2	Go to step 3.	The problem is solved.

Action	Yes	No
<p>Perform the Solid color or black image check. See .</p> <p>Does the problem remain?</p>		
<p>Step 3</p> <p>Perform a flatbed copy job.</p> <p>Is the copy page blank or black?</p>	Go to step 5.	Go to step 4.
<p>Step 4</p> <p>Perform an ADF copy job.</p> <p>Did paper feed into the ADF?</p>	Go to step 6.	Go to step 5.
<p>Step 5</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Scanner diagnostics > Motor tests</p> <p>2 Select Motor (Feed), and then press OK or touch Start.</p> <p>Did the motor run?</p>	Go to step 6.	Go to step 7.
<p>Step 6</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Scanner diagnostics > Sensor tests</p> <p>2 Find the sensor (ADF media present).</p> <p>Does the sensor status change while toggling the sensor?</p>	Go to step 9.	Go to step 7.
<p>Step 7</p> <p>Make sure that the ADF cable on the JADF1 connector on the controller board is properly connected.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>Replace the ADF assembly. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF).</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.

Action	Yes	No
<p>Step 9</p> <p>1 Make sure that the cable on the JFBCIS1 connector on the controller board is properly connected.</p> <p>2 For CX52x and CX62x printer models, make sure that the cable on the JBSCIS1 connector on the controller board is properly connected.</p> <p>Does the problem remain?</p>	Go to step 10.	The problem is solved.
<p>Step 10</p> <p>Replace the flatbed scanner assembly. See Flatbed Scanner Assembly Removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Blank Spaces On Incoming Fax Service Check

Actions	Yes	No
<p>Step 1</p> <p>Receive fax from another machine.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Attach the printer to a different telephone line.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Print a test page.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Install a new toner cartridge.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Stretched Words On Incoming Fax Service Check

Actions	Yes	No
Receive fax from another machine. Does the problem remain?	Contact the next level of support.	The problem is solved.

Flatbed Motor Error Service Check

Action	Yes	No
Step 1 Make sure that the flatbed motor cable is properly connected to the JFB1 connector on the controller board. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Measure the voltage of pin 1 on the JFB1 connector on the controller board. The voltage is only present when a flatbed copy job is running. Is the voltage value +24 V ac?	Go to step 3.	Contact the next level of support.
Step 3 Replace the flatbed scanner assembly. See Flatbed Scanner Assembly Removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

ADF Streak Service Check

Action	Yes	No
Step 1 1 Perform a copy job using the ADF. 2 Check if streaks appear in the middle of the copy job. Do streaks appear?	Go to step 2.	The problem is solved.
Step 2 1 Using a soft, lint-free cloth, clean the ADF glass on the flatbed.	Go to step 3.	The problem is solved.

Action	Yes	No
<p>2 Using a damp cloth, clean the separator roll and separator pad.</p> <p>Does the problem remain?</p>		
<p>Step 3</p> <p>Check the ADF glass for proper installation, scratches, or damage.</p> <p>Is the ADF glass properly installed, and free of scratches or damage?</p>	Go to step 5.	Go to step 4.
<p>Step 4</p> <p>Perform the Vertical colored lines or banding check. See .</p> <p>Does the problem remain?</p>	Go to step 5.	The problem is solved.
<p>Step 5</p> <p>Replace the ADF assembly. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF).</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

ADF Feed Error Service Check

Action	Yes	No
<p>Step 1</p> <p>Make sure that the original document is clean and not damaged.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>1 If the ADF is multifeeding, then check the ADF separator pad and ADF separator rollers for proper installation and damage.</p> <p>2 Clean the pad and rollers with a soft, lint-free cloth and isopropyl alcohol.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Replace the separator pad and ADF pick roller.</p>	Go to step 4.	The problem is solved.

Action	Yes	No
Does the problem remain?		
Step 4 If the paper is skewing when it is fed into the ADF, then check the paper width guide for proper operation, and adjust if necessary. Does the problem remain?	Go to step 5.	The problem is solved.
Step 5 1 If the paper jams when fed into the ADF, then check if the top cover is open. 2 If the top cover is closed, open and then close the top cover. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 If the paper jams inside the ADF, then perform the ADF jam service check. See ADF Jam Service Check . Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 1 Enter the Diagnostics menu, and then navigate to: Scanner Diagnostics > Motor Tests 2 Select ADF pick , and then press OK or touch Start . 3 Select ADF feed , and then press OK or touch Start . Did the motors run?	Go to step 8.	Go to step 11.
Step 8 1 Enter the Diagnostics menu, and then navigate to: Scanner Diagnostics > Sensor Tests 2 Find the sensor (ADF media present). Does the sensor status change while toggling the sensor?	Go to step 9.	Go to step 11.
Step 9 1 Make sure that the ADF sensor actuators are free of dust or debris.	Go to step 11.	Go to step 10.

Action	Yes	No
<p>2 Check the actuators for proper installation and damage.</p> <p>Are the actuators properly installed and free of damage?</p>		
<p>Step 10</p> <p>Replace the ADF assembly. See ADF Assembly Removal (DADF) or ADF Assembly Removal (SADF/RADF).</p> <p>Does the problem remain?</p>	Go to step 11.	The problem is solved.
<p>Step 11</p> <p>Make sure that the ADF cable on the JADF1 connector on the controller board is properly connected.</p> <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 12</p> <p>Check the following voltage values on the JADF1 connector on the controller board:</p> <ul style="list-style-type: none"> • Pin 14: +24 V dc • Pin 15: +3.3 V dc • Pin 17: +3.3 V dc <p>Are the voltage values approximately the same?</p>	Contact the next level of support.	The problem is solved.

ADF Duplex Service Check



Note: Perform this check only if the paper feeds and jams in the ADF. If the paper is not feeding into the ADF, then see .

Action	Yes	No
<p>Step 1</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Scanner diagnostics > Motor tests</p> <p>2 Perform all motor tests.</p> <p>Are the motors properly working?</p>	Go to step 2.	Go to step 5.
<p>Step 2</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p>	Go to step 3.	Go to step 5.

Action	Yes	No
<p>Scanner diagnostics > Sensor tests</p> <p>2 Perform all sensor tests.</p> <p>Are the sensors properly working?</p>		
<p>Step 3</p> <p>1 Make sure that the ADF sensor actuators are free of dust or debris.</p> <p>2 Check the actuators for proper installation and damage.</p> <p>Are the actuators properly installed and free of damage?</p>	Go to step 5.	Go to step 4.
<p>Step 4</p> <p>Replace the ADF assembly. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF).</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 5</p> <p>Make sure that the ADF cable on the JADF1 connector on the controller board is properly connected.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Replace the ADF assembly. See ADF Assembly Removal (SADF/RADF) or ADF Assembly Removal (DADF).</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

ADF Rattling Noise Service Check

Actions	Yes	No
Step 1 Reseat the ADF separator roller. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Replace the ADF separator roller. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Remove, and then install the ADF door. See . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Replace the ADF door. Does the problem remain?	Contact the next level of support.	The problem is solved.

Modem/Fax Card Service Check

Action	Yes	No
Step 1 Check if the telephone cable is properly connected to the modem card and electrical outlet. Is the cable properly connected to the modem card and electrical outlet?	Go to step 2.	Go to step 3.
Step 2 Connect the telephone cable to the modem card and electrical outlet. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Check if the telephone cable can make and receive calls. Is the phone line properly working?	Go to step 5.	Go to step 4.
Step 4	Go to step 5.	The problem is solved.

Action	Yes	No
Connect the printer to a properly functioning telephone jack. Does the problem remain?		
Step 5 Make sure that the modem cable is properly connected to the modem card and to the JFAX2 connector on the controller board. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Replace the fax card. Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 Check the voltages values of the following pins on the JFAX2 connector on the controller board: <ul style="list-style-type: none"> • Pin 2: +3.3 V dc • Pin 3: +3.3 V dc • Pin 5: +5 V dc • Pin 7: Ground • Pin 9: Ground • Pin 11: Ground • Pin 13: Ground Are the voltage values approximately the same?	Contact the next level of support.	Go to step 8.
Step 8 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Fax Reception Service Check

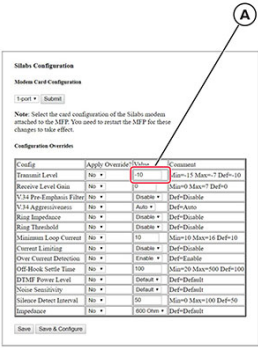


Note: Before performing this service check, make sure that the correct country code is selected.

Diagnostics and Troubleshooting

Actions	Yes	No
<p>Step 1</p> <p>Reseat the telephone cable on the LINE port of the printer and on the wall jack.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check if the telephone line can send and receive calls.</p> <p>Is the phone line properly working?</p>	Go to step 4.	Go to step 3.
<p>Step 3</p> <p>Connect the telephone cable to a working wall jack.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Check if the telephone line is analog.</p> <p>Is the telephone line analog?</p>	Go to step 7.	Go to step 5.
<p>Step 5</p> <p>Check if the telephone line is a VOIP line.</p> <p>Is the line VOIP?</p>	Go to step 6.	Go to step 7.
<p>Step 6</p> <p>Ask the system administrator to verify if the VOIP server is configured to receive faxes.</p> <p>Is the server configured to receive faxes?</p>	Go to step 7.	Contact the next level of support.
<p>Step 7</p> <p>Check if the printer is on a PABX.</p> <p>Is the printer on a PABX?</p>	Go to step 9.	Go to step 8.
<p>Step 8</p> <p>1 From the home screen, navigate to Settings > Fax > Analog Fax Setup > Fax Send Settings > Behind a PABX.</p> <p>2 Select Yes.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p>	Go to step 10.	Go to step 11.

Actions	Yes	No
<p>1 From the home screen, navigate to Settings > Fax > Analog Fax Setup > Fax Send Settings > Behind a PABX.</p> <p>2 Select No.</p> <p>3 Check if access to an outside line needs a dial prefix.</p> <p>Does access to an outside line need a dial prefix?</p>		
<p>Step 10</p> <p>Send a fax using a dial prefix.</p> <p>Does the problem remain?</p>	Go to step 11.	The problem is solved.
<p>Step 11</p> <p>Check if the printer sends a fax to one specific destination.</p> <p>Does the printer send a fax to one specific destination?</p>	Go to step 13.	Go to step 12.
<p>Step 12</p> <p>Check if the device that does not receive a fax can send a fax.</p> <p>Can the device send a fax?</p>	Go to step 13.	Contact the next level of support.

Actions	Yes	No
<p>Step 13</p> <ol style="list-style-type: none"> 1 Enter the Service Engineer menu, and then navigate to: Fax SE > Fax Settings > AutoPrint T30 Logs 2 Check the reported error code. See . 3 Perform the action suggested for the error. <p>Does the problem remain?</p>	<p>Go to step 14.</p>	<p>The problem is solved.</p>
<p>Step 14</p> <ol style="list-style-type: none"> 1 Open a web browser and then type <code>https://<IP address>/se</code>. 2 Navigate to: Fax > Settings > Silabs Configuration 3 Adjust the Transmit Level setting (A) in steps of ± 1 dB.  <p>Does the problem remain?</p>	<p>Contact the next level of support.</p>	<p>The problem is solved.</p>

Fax Transmission Service Check

Actions	Yes	No
<p>Step 1</p> <p>Reseat the telephone cable on the LINE port of the printer and on the wall jack.</p> <p>Does the problem remain?</p>	<p>Go to step 2.</p>	<p>The problem is solved.</p>
<p>Step 2</p> <p>Check for a dial tone.</p> <p>Is there a dial tone?</p>	<p>Go to step 3.</p>	<p>Go to step 5.</p>

Actions	Yes	No
<p>Step 3</p> <p>Check if the telephone line can send and receives calls.</p> <p>Is the phone line properly working?</p>	Go to step 6.	Go to step 4.
<p>Step 4</p> <p>Check if the telephone line is free of static or external noise.</p> <p>Is the line free of static or external noise?</p>	Go to step 6.	Go to step 5.
<p>Step 5</p> <p>Connect the telephone cable to a working wall jack.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>1 From the home screen, navigate to Settings > Fax > Analog Fax Setup > Fax Receive Settings > Admin Controls > Enable Fax Receive.</p> <p>2 Select On.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>1 From the home screen, navigate to Settings > Fax > Analog Fax Setup > Fax Receive Settings > Admin Controls > Answer on.</p> <p>2 Select a ring pattern.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>Check if the telephone line is analog.</p> <p>Is the line analog?</p>	Go to step 11.	Go to step 9.
<p>Step 9</p> <p>Check if the telephone line is a VOIP line.</p> <p>Is the line VOIP?</p>	Go to step 11.	Go to step 10.
<p>Step 10</p>	Go to step 11.	Contact the next level of support.

Diagnostics and Troubleshooting

Actions	Yes	No
<p>Ask the system administrator to check if the VOIP server is configured to receive faxes.</p> <p>Is the server configured to receive faxes?</p>		
<p>Step 11</p> <p>Check if the printer receives a fax from one specific remote device.</p> <p>Does the printer receive a fax from one specific remote device?</p>	Go to step 13.	Go to step 12.
<p>Step 12</p> <p>Check if a different device can send a fax.</p> <p>Can the device send a fax?</p>	Contact the next level of support.	Go to step 13.
<p>Step 13</p> <ol style="list-style-type: none"> From the home screen, navigate to Settings > Fax > Analog Fax Setup > Fax Receive Settings > Admin Controls > Block No Name Fax. Select Off. <p>Does the problem remain?</p>	Go to step 14.	The problem is solved.
<p>Step 14</p> <ol style="list-style-type: none"> From the home screen, navigate to Settings > Fax > Analog Fax Setup > Fax Receive Settings > Admin Controls > Banned Fax List. Check if the remote device number is on the list. <p>Is the number on the list?</p>	Go to step 15.	Go to step 16.
<p>Step 15</p> <p>Remove the remote device number from the list.</p> <p>Does the problem remain?</p>	Go to step 16.	The problem is solved.

Actions	Yes	No
<p>Step 16</p> <p>1 Enter the Service Engineer menu, and then navigate to:</p> <p>Fax SE > Modem Settings > Receive Thresh</p> <p>2 Adjust the setting in steps of 2 dB.</p> <p>The recommended adjustment range is between -33 dB and -48 dB.</p> <p>Does the problem remain?</p>	Go to step 17.	The problem is solved.
<p>Step 17</p> <p>1 Enter the Service Engineer menu, and then navigate to:</p> <p>Fax SE > Fax Settings > AutoPrint T30 Logs</p> <p>2 Check the reported error code. See .</p> <p>3 Perform the action suggested for the error.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Fax Error Log Codes

Error code	Description	Action
000	No error occurred during a fax transmission.	No action is needed.
200	An error occurred when transmitting training.	<ul style="list-style-type: none"> • Check the line quality. • Select a lower Max Speed value under the Fax Send settings. • Adjust the transmit level.
3XX	An error occurred when receiving an image data.	<ul style="list-style-type: none"> • Check the line quality. • Adjust the Receive Threshold. • Select a lower Max Speed value under the r Fax Receive settings.
4XX	An error occurred when sending an image data.	<ul style="list-style-type: none"> • Check the line quality. • Adjust the Transmit Level. • Select a lower Max Speed value under the Fax Receive settings.
5XX	An unknown response is received from a remote fax device.	No action is needed. The issue is with the other device.

Error code	Description	Action
6XX	An error occurred when receiving a frame.	<ul style="list-style-type: none"> • Check the line quality. • Adjust the Receive Threshold.
7XX	An error occurred when sending a frame.	<ul style="list-style-type: none"> • Check the line quality. • Adjust the Transmit Level. • Select a lower Max Speed value under the Fax Send settings.
800	An EOT was unexpectedly received from the modem in V34 mode.	If the error persists, then disable the V34 modulation scheme.
802	Too many time-outs occurred during ECM reception.	If the error persists, then disable the ECM mode.
803	Fax cancelled by the user.	No action is needed.
804	Unexpectedly received a disconnect command from the remote end.	<ul style="list-style-type: none"> • Check the line quality. • Adjust the Transmit Level or Receive Threshold setting. • The remote device could be requesting an unsupported feature.
805	The remote fax device failed to respond to the DCS command.	<ul style="list-style-type: none"> • Adjust the Transmit Level or Receive Threshold setting. • The remote device could be malfunctioning.
808	T1 timeout occurred when trying to establish a connection with a remote fax device.	Adjust the Transmit Level or Receive Threshold setting.
809	T2 Timeout occurred due to loss of command/response synchronization.	Adjust the Transmit Level or Receive Threshold setting.
80A	T5 Timeout occurred when transmitting image data to remote fax device.	<ul style="list-style-type: none"> • Check line quality. • Adjust the Transmit Level setting • Decrease the Max Speed setting under Fax Send settings.
80B	Too many errors when transmitting in ECM mode.	<ul style="list-style-type: none"> • Check line quality. • Adjust the Transmit Level setting • Select a lower 'Max Speed' value under Fax Send settings.
80C	Remote device failed to respond to the CTC command.	<ul style="list-style-type: none"> • Decrease the Max Speed setting under Fax Send settings. • Adjust the Transmit Level setting

Error code	Description	Action
80D	Received too many requests from remote end to repeat the previous command sent.	<ul style="list-style-type: none"> • Check line quality. • Adjust the Transmit Level setting • Check if line conditions on remote end will facilitate a good connection.
80E	Functional limitation-Remote fax device does not support G3 receive capability.	No action needed. Issue with the remote device.
811	Failed to detect a fax device at the remote end.	<ul style="list-style-type: none"> • Verify MFD is answering to fax call and not a voice call. • Decrease the Rings To Answer setting.
812	No more data rates available in V34 modulation scheme.	Decrease the modulation scheme.
813	Timeout occurred after waiting too long to receive a good frame.	Adjust the Receive Threshold setting.
814	Tried too many times at selected speed using V34 modulation scheme.	<ul style="list-style-type: none"> • Adjust the Transmit Level setting. • Decrease the modulation scheme.
815	Fax transmission was interrupted due to power failure.	Troubleshoot MFP if error persists. See .
818	Fax transmission failed due to insufficient memory to store scanned image.	Adjust the Memory Use setting to allocate more memory for send jobs.
819	Fax transmission failed due to insufficient memory to store received image.	Adjust the Memory Use setting to allocate more memory for receive jobs.
81A	A timeout occurred during transmission of a page in ECM mode.	Decrease the Max Speed setting under Fax Send settings.
880	Failure to transmit training successfully in V17, V29, V27 terminal modulation schemes.	<ul style="list-style-type: none"> • Decrease the Max Speed setting under Fax Send settings. • Adjust the Transmit Level setting. • Check line quality.
881	Failure to transmit training successfully in V33, V29, V27 terminal modulation schemes.	<ul style="list-style-type: none"> • Decrease the Max Speed setting under Fax Send settings. • Adjust the Transmit Level setting. • Check line quality.

Error code	Description	Action
882	Failure to transmit training successfully in V17, V29 terminal modulation schemes.	<ul style="list-style-type: none"> Decrease the Max Speed setting under Fax Send settings. Adjust the Transmit Level setting. Check line quality.
883	Failure to transmit training successfully in V17, V27 terminal modulation schemes.	<ul style="list-style-type: none"> Decrease the Max Speed setting under Fax Send settings. Adjust the Transmit Level setting. Check line quality.
884	Failure to transmit training successfully in V29, V27 terminal modulation schemes.	<ul style="list-style-type: none"> Decrease the Max Speed setting under Fax Send settings. Adjust the Transmit Level setting. Check line quality.
885	Failure to transmit training successfully in V17 terminal modulation scheme.	<ul style="list-style-type: none"> Decrease the Max Speed setting under Fax Send settings. Adjust the Transmit Level setting. Check line quality.
886	Failure to transmit training successfully in V29 terminal modulation scheme.	<ul style="list-style-type: none"> Decrease the Max Speed setting under Fax Send settings. Adjust the Transmit Level setting. Check line quality.
887	Failure to transmit training successfully in V27 terminal modulation scheme.	<ul style="list-style-type: none"> Decrease the Max Speed setting under Fax Send settings. Adjust the Transmit Level setting. Check line quality.
888	Failure to transmit training successfully at 2400 bps in V27 terminal modulation scheme.	<ul style="list-style-type: none"> Adjust the Transmit Level setting. Check line quality.
889	Failed to connect at the minimum speed supported by the MFP.	<ul style="list-style-type: none"> Adjust the Transmit Level setting. Incompatible connection.
88A	Failed to connect using V.34 modulation scheme.	<ul style="list-style-type: none"> Check line quality.

Error code	Description	Action
		<ul style="list-style-type: none"> Decrease the modulation scheme. Adjust the Transmit Level or Receive Threshold settings.
901	No fax tones detected from remote end.	<ul style="list-style-type: none"> Verify destination phone number. Verify that the remote fax is authorized to receive faxes.
902	No dial tone detected.	<ul style="list-style-type: none"> Check by enabling Behind a PABX setting. Check phone line. Check MFD modem hardware.
903	Busy tone detected.	Check with remote end if successive attempts fail.
904	Hardware error detected.	See .
905	A timeout occurred after dialing the number and waiting for a response.	Check with remote end if successive attempts fail.
906	Fax cancelled by user.	No action needed.
907	Modem detected a digital line connection.	Verify that the MFP is connected to an analog line. See .
908	Phone line was disconnected	Restore phone line connection.
A00	Received request for unsupported function from remote fax device.	No action needed.
A01	Received request for unsupported image width from remote fax device.	No action needed.
A02	Received request for unsupported image resolution from remote fax device.	No action needed.
A03	Received request for unsupported compression type from remote fax device.	No action needed.
A04	Received request for unsupported image length from remote fax device.	No action needed.
F00	Unknown error occurred.	No action needed.

Escalating A Fax Issue To Next Level Of Support

Before contacting the next level of support, go to the SE menu, and then generate a fax error file. This file contains machine settings information and debug information that will help the next level of support determine the cause of a failure.

To generate a fax error file, perform the following steps:

1. Open a web browser, and then type `http://MFP/<IP address>/se`.

The SE menu displays.

2. Click **Dump Job History**.

The following information appears:

Fax Job Log							
Wednesday, 2006-02-08 11:25							
Action	Date	Time	Job #	Length	Station Name/Number	Pages	Status
SCAN	1969-12-31	19:00				9	OK
SEND	2006-02-01	13:55	73	17:53	4039	2	CANCELED
SEND	2006-02-01	13:56	74	17:53	4039	0	CANCELED

3. Write down the type of connection, the type of error, and the job in which the error occurred.
4. Open a Web browser, and then type `http://MFP/<IP address>/se`.
5. Click **Report a Fax Problem**.


The fax check list appears.

6. Fill in the requested information.

Type in the information you retrieved in step 3.

The next level of support can assist you if you have questions about the information requested on the page.

Title/Name of Tester	<input type="text" value="Your Name"/>	Date of Event	<input type="text" value="Date of Event"/>	mm/dd/yyyy
Customer	<input type="text" value="Customer Name"/>	Time of Event	<input type="text" value="Time of Event"/>	hh:mm [A,P]M
Job ID	<input type="text" value="Job ID"/>	#/#/#/#/#/#		
Describe the Physical Connection:				
Type:	Description:	Channel Quality:		
<input checked="" type="radio"/> Analog	<input type="checkbox"/> VoIP/FoIP	<input checked="" type="radio"/> Clear		
<input type="radio"/> Digital	<input type="checkbox"/> PAE	<input type="radio"/> OK		
	<input type="checkbox"/> ISD	<input type="radio"/> Some Noise		
		<input type="radio"/> Very Noisy		

 **Note:** The fields requesting the code levels, model number, and type of problem are auto-filled. If the information is not in the fields, then retrieve it from the SE menu. To access the SE menu, press ***411** or open a web browser, and then type `http://MFP/<IP address>/se`.

7. Click **Submit**.



Note: The file that the MFP generates is not transmitted automatically to the next level of support. It is placed on the computer desktop.

8. Type a filename, and then save the file.

9. Click **OK**.

10. E-mail the file to the next level of support.

Other Symptoms

Base Printer Symptoms


Base Printer Symptoms


Symptom	Action
The printer does not have power.	See .
The control panel is not functioning.	See .
False values for the front door appear on the display.	See .
Sensor (narrow media) service check.	See .
TMC card service check.	See TMC card service check .
The printer is not communicating with the USB host.	See .
The printer is not communicating with the network host.	See .

Dead Printer Service Check

A dead printer is one which, when powered on from a known good electrical outlet, displays no indication of power to the printer by changes to the control panel display, or any movement of the fan or motors.

If a 650-sheet duo tray is installed, remove the tray and then check the base printer for correct operation. If the base printer operates correctly, then replace the 650-sheet duo tray.

 **Warning:** Observe all necessary ESD precautions when removing and handling the controller board or any installed option cards or assemblies.

 **Note:** Remove any input option from the printer.

Action	Yes	No
Step 1 Turn on the printer. Did the printer turn on?	The problem is solved.	Go to step 2.
Step 2 Check the AC power voltage. Is the line voltage correct?	Go to step 4.	Go to step 3.
Step 3 Inform the customer of possible issues with the line voltage.	Go to step 4.	The problem is solved.

Action	Yes	No
Does the problem remain?		
Step 4 Check the AC power cord for damage, and replace if necessary. Does the problem remain?	Go to step 5.	The problem is solved.
Step 5 Check the USB ground contacts on the controller board for damage, and repair if necessary. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Make sure that the voltage switch on the LVPS is properly set, and change if necessary. Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal . 3 Check the cable connection at the JLVPS1 connector on the controller board for proper connection, and reseal if necessary. Does the problem remain?	Go to step 8.	The problem is solved.
Step 8 Turn on the printer, and then check the following voltages at the JLVPS1 connector on the controller board: Test one connector pin at a time. <ul style="list-style-type: none"> • Pin 1: +6.5 V • Pin 2: Ground • Pin 3: +6.5 V • Pin 4: Ground • Pin 5: +6.5 V • Pin 6: Ground • Pin 7: +24 V_RAW • Pin 8: Ground • Pin 9: +24 V_RAW • Pin 10: Ground • Pin 11: +24 V_RAW 	Go to step 9.	Go to step 10.

Action	Yes	No
<ul style="list-style-type: none"> Pin 12: Ground Pin 13: RELAY_DRIVE Pin 14: PS_ZERO_XING_IN Pin 15: HEAT1_ON_R Pin 16: +24 V_ON_R+ <p>Are the voltage values approximately the same?</p>		
<p>Step 9</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.
<p>Step 10</p> <p>Replace the LVPS. See LVPS removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Control Panel Service Check

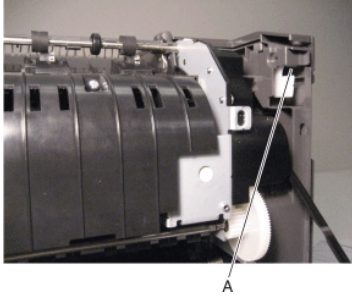
Action	Yes	No
<p>Step 1</p> <p>Perform a POR.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check the indicator light on the control panel.</p> <p>Is the indicator light on?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <p>Check the Ethernet and controller board LEDs on the controller board.</p> <p>Are the LEDs on?</p>	Go to step 4.	Go to step 9.
<p>Step 4</p> <p>Check the ribbon cable connection between the control panel and the controller board.</p> <p>Is the cable properly connected at both ends?</p>	Go to step 6.	Go to step 5.
<p>Step 5</p> <p>Reconnect the cable.</p>	Go to step 6.	The problem is solved.

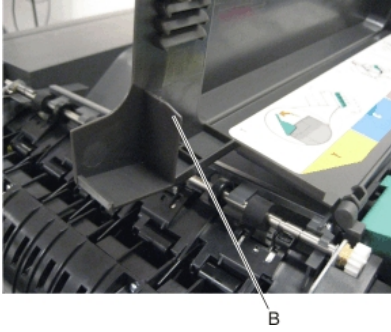
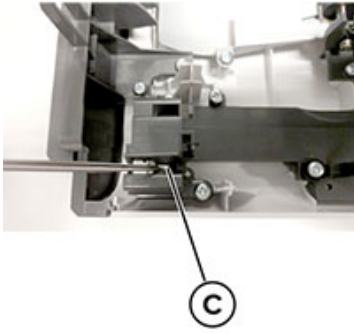
Action	Yes	No
Does the problem remain?		
Step 6 Check the cable for damage, and replace if necessary. Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 Replace the control panel cable. Does the problem remain?	Go to step 8.	The problem is solved.
Step 8 Replace the control panel. See 4.3-inch Control Panel Removal . Does the problem remain?	Go to step 12.	The problem is solved.
Step 9 Disconnect the LVPS cable from the controller board, and then measure the voltage values of the red and orange wires. Is the reading on the red wire +6.5 V, and the orange wire +25 V?	Go to step 12.	Go to step 10.
Step 10 Replace the LVPS cable. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11 Replace the LVPS. See LVPS removal . Does the problem remain?	Go to step 12.	The problem is solved.
Step 12 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

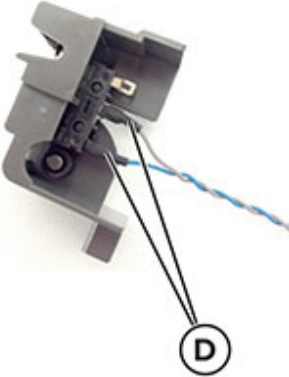
HVPS Service Check

Action	Yes	No
Step 1 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check the cable at the JHVPS1 connector on the controller board for proper connection and damage, and replace if necessary. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 1 Remove the transfer module, and then check if the three contacts move up and down, and are making contact with the transfer module. 2 Reposition the transfer module so that the contacts move up and down. Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Replace the HVPS. See HVPS removal . Does the problem remain?	Go to step 5.	The problem is solved.
Step 5 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Interlock Service Check

Action	Yes	No
<p>Step 1</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Sensor tests</p> <p>2 Find the sensor (Door interlock).</p> <p>Does the sensor status change while toggling the sensor?</p>	Go to step 2.	Go to step 7.
<p>Step 2</p> <p>1 Open the front door, and then check the web pivot plate (A) at the top right corner of the printer.</p>  <p>With the other covers in place and closed, the pivot plate interacts with switches in the door.</p> <p>2 Open the toner cover, and then check the motion of the pivot plate.</p> <p>Is the pivot plate loose, damaged, or missing?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <p>Replace the right cover. See Right cover removal.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Open the toner door, and then check the vertical web (B) that pushes and rotates the pivot plate.</p>	Go to step 5.	Go to step 6.

Action	Yes	No
 <p>Is the web damaged?</p>		
<p>Step 5 Replace the MFP toner cover. See MFP Toner Cover Removal. Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6 1 Open the front door. 2 Using a spring hook, push the metal arms (C) to check the movement of the two switches.</p>  <p>Are the switches and surrounding area damaged?</p>	Go to step 8.	Go to step 7.
<p>Step 7 Check the cable connections (D) on the sensor.</p>	Go to step 9.	Go to step 8.

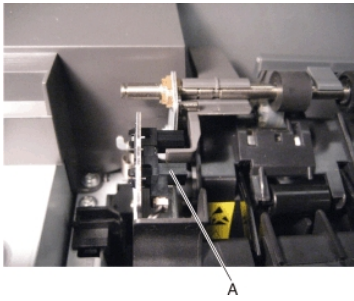
Action	Yes	No
 <p>Are the cables properly connected to the switch?</p>		
<p>Step 8 Replace the interlock switch cover assembly. See Interlock Switch Cover Assembly Removal. Does the problem remain?</p>	<p>Go to step 9.</p>	<p>The problem is solved.</p>
<p>Step 9 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Turn on the printer, and then verify if the pin 1 value of the JCVR1 connector on the controller board is +25 V dc. Is the value approximately the same?</p>	<p>Go to step 10.</p>	<p>Go to step 12.</p>
<p>Step 10 1 Close the front door, and then close the toner door. 2 Make sure that the right cover is in place. 3 Turn off the printer, and then disconnect the cable at the JCVR1 connector on the controller board. 4 Test the JCVR1 connector on the controller board under the following conditions: • Close the front cover and toner door, and then test if pin 1 and pin 2 have continuity.</p>	<p>Contact the next level or support.</p>	<p>Go to step 11.</p>

Action	Yes	No
<ul style="list-style-type: none"> With one or both doors open, pin 1 and pin 2 should not have continuity. Are the tests verified?		
Step 11 Replace the front door. See Front Door Removal . Does the problem remain?	Go to step 12.	The problem is solved.
Step 12 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level or support.	The problem is solved.

Invalid Input Option Type or ID Is Detected Service Check

Action	Yes	No
Step 1 1 Make sure to update to the latest printer firmware version. 2 Make sure that the options configuration is supported. 3 Perform a POR. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check the option interface cable for proper connection and damage, and replace if necessary. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Check the printer interface cable and adjacent options for proper connection and damage, and replace if necessary. Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Perform a POR. Does the problem remain?	Contact the next level of support.	The problem is solved.

Sensor (Narrow Media) Service Check

Action	Yes	No
<p>Step 1</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Sensor tests</p> <p>2 Find the sensor (Narrow media).</p> <p>3 Open the front door, and then toggle the sensor (A).</p>  <p>Does the sensor status change while toggling the sensor?</p>	Go to step 3.	Go to step 2.
<p>Step 2</p> <p>Replace the sensor (narrow media). See Sensor (Narrow Media) Removal.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Check the sensor flag for proper installation and 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>Check the sensor cable for proper connection or 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>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Printer diagnostics & adjustments > Sensor tests</p> <p>2 Find the sensor (Bin full).</p>	Contact the next level or support.	Go to step 6.

Diagnostics and Troubleshooting

Action	Yes	No
<p>3 Open, and then close the front door to toggle the sensor.</p> <p>Does the sensor status change while toggling the sensor?</p>		
<p>Step 6</p> <p>Check the sensor cable for proper connection and damage, and replace if necessary.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact your next level or support.	The problem is solved.

USB Service Check

Actions	Yes	No
<p>Step 1</p> <p>Check if the USB cable is properly connected to the printer and host PC.</p> <p>Is the cable properly connected?</p>	Go to step 3.	Go to step 2.
<p>Step 2</p> <p>Properly connect the cable at both ends.</p> <p>Does the problem remain?</p>	Go to step 3.	The problem is solved.
<p>Step 3</p> <p>Use a different USB cable.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Connect a different device to the USB cable, and then check if the host PC detects the device.</p> <p>Did the host PC detect the device?</p>	Go to step 5.	Contact the next level of support.
<p>Step 5</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Network Service Check

Action	Yes	No
<p>Step 1</p> <p>Check if the printer is using an Ethernet network.</p> <p>Is the printer using an Ethernet network?</p>	Go to step 2.	Go to step 3.
<p>Step 2</p> <p>Make sure that the Ethernet cable is properly connected at both ends.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the printer is not physically connected to a wired LAN. 2 If the printer is connected using an Ethernet connection, unplug the cable from the printer, and then perform a POR to connect the printer to a wireless network. <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <ol style="list-style-type: none"> 1 From the home screen, navigate to Settings > Network/Ports > Active Adapters. 2 Check if the adapter that appears matches the adapter used in the printer. <p>Do the adapters match?</p>	Go to step 6.	Go to step 5.
<p>Step 5</p> <p>Change the active adapter setting to match the adapter used in the printer.</p> <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <ol style="list-style-type: none"> 1 Check the online status of the printer under Printers and Faxes on the host computer. 2 Delete all print jobs in the print queue. <p>Is the printer online and in the Ready state?</p>	Go to step 8.	Go to step 7.

Diagnostics and Troubleshooting

Action	Yes	No
<p>Step 7</p> <p>Change the printer status to Online.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>Check the printer IP address on the Network Settings Page.</p> <p>Does it match the IP address in the drivers port using the printer?</p>	Go to step 13.	Go to step 9.
<p>Step 9</p> <p>Check if the printer uses a static IP address on a network.</p> <p>Is the printer using a DHCP IP address?</p>	Go to step 10.	Go to step 12.
<p>Step 10</p> <p>Check the first two segments of the IP address.</p> <p>Does the IP address start with 169.254?</p>	Go to step 11.	Go to step 12.
<p>Step 11</p> <p>Perform a POR.</p> <p>Does the problem remain?</p>	Go to step 13.	The problem is solved.
<p>Step 12</p> <p>Reset the IP address on the printer to match the IP address on the driver.</p> <p>Does the problem remain?</p>	Go to step 13.	The problem is solved.
<p>Step 13</p> <p>Check if the printer and computer IP addresses have the same subnet address.</p> <p>Does the printer and computer IP addresses have the same subnet address?</p>	Go to step 15.	Go to step 14
<p>Step 14</p> <p>Using the subnet address supplied by the network administrator, assign a unique IP address to the printer.</p>	Go to step 15.	The problem is solved.

Action	Yes	No
The printer IP address should match the IP address on the print driver. Does the problem remain?		
Step 15 Check if the printer is physically connected to the network. Is the printer physically connected to the network?	Go to step 16.	Go to step 23.
Step 16 Use a different Ethernet cable. Does the problem remain?	Go to step 17.	The problem is solved.
Step 17 Have the network administrator check the network drop for activity. Is the network drop functioning properly?	Go to step 19.	Go to step 18.
Step 18 Try a known and functioning network drop. Does the problem remain?	Go to step 19.	The problem is solved.
Step 19 Check if the built-in Ethernet port on the controller board is used to connect to the network. Is the built-in Ethernet port on the controller board used to connect to the network?	Go to step 22.	Go to step 20.
Step 20 Make sure that the option Ethernet card is properly installed, and reseal if necessary Does the problem remain?	Go to step 21.	The problem is solved.
Step 21 Replace the option Ethernet card. Does the problem remain?	Go to step 22.	The problem is solved.
Step 22	Contact the next level of support.	The problem is solved.

Diagnostics and Troubleshooting

Action	Yes	No
<p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>		
<p>Step 23</p> <p>Check if the printer is on the same wireless network as the other devices.</p> <p>Is the printer on the same wireless network as the other devices?</p>	Go to step 25.	Go to step 24.
<p>Step 24</p> <p>Assign the correct wireless network to the printer.</p> <p>Does the problem remain?</p>	Go to step 25.	The problem is solved.
<p>Step 25</p> <p>Check if the other devices on the wireless network are properly communicating.</p> <p>Are the other devices on the wireless network properly communicating?</p>	Go to step 26.	Contact the network administrator.
<p>Step 26</p> <p>Make sure that the wireless card on the printer is properly installed.</p> <p>Does the problem remain?</p>	Go to step 27.	The problem is solved.
<p>Step 27</p> <p>Check if an antenna is attached to the wireless card.</p> <p>Is an antenna attached to the wireless card?</p>	Go to step 28.	Go to step 29.
<p>Step 28</p> <p>Check the antenna for proper installation and damage, and replace if necessary.</p> <p>Does the problem remain?</p>	Go to step 29.	The problem is solved.

Action	Yes	No
Step 29 Replace the wireless card. See Wireless card removal . Does the problem remain?	Go to step 30.	The problem is solved.
Step 30 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

TPS Service Check

Action	Yes	No
Step 1 Check the cable on the JTPS1 and JTPS2 connector on the controller board for proper connection and damage, and replace if necessary. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Check the cables on the left and right TPS sensors for proper connection and damage, and replace if necessary. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Check the left and right TPS sensors for proper installation and damage, and replace if necessary. See Sensors (toner patch) removal . Does the problem remain?	Go to step 4.	The problem is solved.
Step 4 Replace the controller board. See Controller board removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Weather Station Service Check

Action	Yes	No
Step 1 Make sure that the cable on the JWS1 connector on the controller board is properly connected. Does the problem remain?	Go to step 2.	The problem is solved.
Step 2 Make sure that the weather station cable is properly connected. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 Replace the sensor (weather station). See Weather station removal . Does the problem remain?	Contact the next level of support.	The problem is solved.

Input Option Symptoms

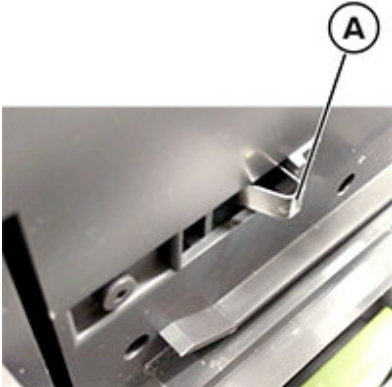
550-sheet Tray and 650-Sheet Duo Tray Input Option Symptoms

Symptom	Action
The printer fails to recognize an installed option.	See Option and paper size not recognized service check .
Tray [x] does not recognize the paper size loaded.	See Option and paper size not recognized service check .
<ul style="list-style-type: none"> • A Tray missing message appears even if the tray is installed. • The tray insert does not fit in the tray base. 	See Sensor (tray [x]) service check .
Double feed.	See Double feed and printout skewed service check .
The printout is skewed.	See Double feed and printout skewed service check .
The printer failed to feed from the option tray.	See Failed to feed from option tray and leading edge damaged service check .
The leading edge is damaged.	See Failed to feed from option tray and leading edge damaged service check .
The printer failed to feed from the MPF.	See Failed to load/feed from the multipurpose feeder service check .

Symptom	Action
Load MPF with plain letter-size paper.	See Failed to load/feed from the multipurpose feeder service check .
Tray 2 or tray 3 is missing.	See Tray 2 or tray 3 missing service check .
Tray 2 or tray 3 is not detected.	See Tray 2 or tray 3 not detected service check .
Tray 2 or tray 3 is empty.	See Tray 2 or tray 3 empty service check .
Incompatible tray 3.	See Incompatible tray 3 service check .

Sensor (Tray [x]) Service Check

Actions	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Perform a POR. 2 Reseat the printer on the input option. 3 Make sure that the input option configuration is supported. See the Printer, Option, and Stand Compatibility Guide. <p>Does the problem remain?</p>	Go to step 2.	Problem resolved.
<p>Step 2</p> <p>When the printer is in the Ready state, remove and then insert the tray.</p> <p>Did a Keep the current configuration message appear?</p>	Go to step 3.	Go to step 6.
<p>Step 3</p> <p>Check the vertical wall at the left side of the tray for damage, and replace the tray if necessary.</p> <p>Does the problem remain?</p>	Go to step 4.	The problem is solved.
<p>Step 4</p> <p>Check the metal leaf (A) spring for damage.</p>	Go to step 5.	Contact the next level of support.

Actions	Yes	No
 <p>Is the spring damaged and unable to actuate the sensor?</p>		
<p>Step 5</p> <ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray. <p>Does the problem remain?</p>	Go to step 6.	The problem is solved.
<p>Step 6</p> <p>Check if a Keep the current configuration message appears.</p> <p>Did a Keep the current configuration message appear?</p>	Go to step 7.	The problem is solved.

Actions	Yes	No
<p>Step 7</p> <p>1 Turn off the printer.</p> <p>2 Remove the rear cover. See Rear cover removal.</p> <p>3 Disconnect the following cables on the controller board:</p> <ul style="list-style-type: none"> • JTRAY1 cable for tray 1 • JOPT1 cable for tray 2 and tray 3 <p>4 Turn on the printer, and then measure the following voltage values:</p> <p>For tray 1, check the following pins on the JTRAY1 connector on the controller board:</p> <ul style="list-style-type: none"> • Pin 1: +5 V dc • Pin 2: +5 V dc • Pin 3: Ground <p>For tray 2, check the following pins on the JOPT1 connector on the controller board:</p> <ul style="list-style-type: none"> • Pin 2: Ground • Pin 3: Ground • Pin 5: +24 V dc <p>Are the voltage values approximately the same?</p>	<p>The problem is solved.</p>	<p>Go to step 8.</p>
<p>Step 8</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	<p>Contact the next level of support.</p>	<p>The problem is solved.</p>

Option and Paper Size Not Recognized Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Perform a POR. 2 Reseat the printer on the input option. 3 Make sure that the input option configuration is supported. See the Printer, Option, and Stand Compatibility Guide. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check if the printer is using both the 650-sheet duo tray and 550-sheet tray.</p> <p>Is the printer using both the 650-sheet duo tray and 550-sheet tray?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the sequence of the option trays is correct. The 650-sheet duo tray should be tray 2, and the 550-sheet tray should be tray 3. 2 Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > Motor tests 3 Select a motor, and then select Start. <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 4.
<p>Step 4</p> <ol style="list-style-type: none"> 1 Isolate the problem. Verify the problem by installing only one input option to the printer at a time. 2 Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > Motor tests 3 Select a motor, and then select Start. <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 5.

Action	Yes	No
<p>Step 5</p> <p>Check the following for any damage:</p> <p>For the 550-sheet tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads <p>For the 650-sheet duo tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads • MPF gear • MPF pick assembly • MPF tray <p>Is the tray free of damage?</p>	Go to step 6.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 6</p> <p>Check the pick tires for wear, damage, contamination, and proper installation.</p> <p>Is the pick tire properly installed and free of wear or damage?</p>	Go to step 7.	Go to step 8.
<p>Step 7</p> <p>Check the tray and the following for any damage or contamination:</p> <ul style="list-style-type: none"> • Top and bottom autoconnector • Sensor (pass-through) • Feed rollers • Input option pick assembly (if it can go down every time the tray is inserted) <p>Is the tray free of damage or contamination?</p>	Go to step 9.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 8</p> <p>Replace the pick tire. See Pick tire removal.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p> <p>1 Turn off the printer.</p>	Go to step 10.	Go to step 11.

Diagnostics and Troubleshooting

Action	Yes	No
<p>2 Remove the printer from the optional trays.</p> <p>3 Remove the rear cover. See Rear cover removal.</p> <p>4 Reseat the JOPT1 cable on the controller board.</p> <p>5 Check the JOPT1 cable for damage, and replace if necessary.</p> <p>6 Position the printer to partially hang on the side of a table, and then check the autoconnect/option tray cable for damage.</p> <p>Is the autoconnect/option tray cable damaged?</p>		
<p>Step 10</p> <ul style="list-style-type: none"> • If the printer autoconnector is damaged, then replace the tray 2 to controller board cable. • If the option tray autoconnector is damaged, then go to step 12. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 11</p> <ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.

Action	Yes	No
<p>Step 12</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Disconnect the cable at the JOPT1 connector on the controller board. 4 Turn on the printer. 5 Measure the following voltages on the JOPT1 connector on the controller board: <ul style="list-style-type: none"> • Pin 2: Ground • Pin 3: Ground • Pin 5: +24 V dc • Pin 6: Ground • Pin 7: +5 V dc • Pin 9: Ground • Pin 10: Ground <p>Are the voltage readings approximately the same?</p>	Contact the next level of support.	Go to step 13.
<p>Step 13</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Double Feed and Printout Skewed Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Fan the paper. 2 Verify the proper tray settings for the paper. 3 Check the condition of all the option tray pick tires. 4 Make sure that the tray is fully inserted. 5 Make sure that the paper guides are properly adjusted to the paper size being loaded. 6 Make sure that the printer and option trays are on a flat surface. 7 Make sure that the printer is sitting flat on the option trays. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check if the printer is using both the 650-sheet duo tray and 550-sheet tray.</p> <p>Is the printer using both the 650-sheet duo tray and 550-sheet tray?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the sequence of the option trays is correct. The 650-sheet duo tray should be tray 2, and the 550-sheet tray should be tray 3. 2 Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > Motor tests 3 Select a motor, and then select Start. <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 4.
<p>Step 4</p> <ol style="list-style-type: none"> 1 Isolate the problem. Verify the problem by installing only one input option to the printer at a time. 2 Enter the Diagnostics menu, and then navigate to: 	Go to step 9.	Go to step 5.

Action	Yes	No
<p>Additional input tray diagnostics > Motor tests</p> <p>3 Select a motor, and then select Start.</p> <p>Does the test run successfully on each option?</p>		
<p>Step 5</p> <p>Check the following for any damage:</p> <p>For the 550-sheet tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads <p>For the 650-sheet duo tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads • MPF gear • MPF pick assembly • MPF tray <p>Is the tray free of damage?</p>	Go to step 6.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 6</p> <p>Check the pick tires for wear, damage, contamination, and proper installation.</p> <p>Is the pick tire properly installed and free of wear or damage?</p>	Go to step 7.	Go to step 8.
<p>Step 7</p> <p>Check the tray and the following for any damage or contamination:</p> <ul style="list-style-type: none"> • Top and bottom autoconnector • Sensor (pass-through) • Feed rollers • Input option pick assembly (if it can go down every time the tray is inserted) <p>Is the tray free of damage or contamination?</p>	Go to step 9.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
Step 8	Go to step 9.	The problem is solved.

Diagnostics and Troubleshooting

Action	Yes	No
<p>Replace the pick tire. See Pick tire removal.</p> <p>Does the problem remain?</p>		
<p>Step 9</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the printer from the trays. 3 Remove the rear cover. See Rear cover removal. 4 Reseat the JOPT1 cable on the controller board. 5 Check the JOPT1 cable for damage, and replace if necessary. 6 Position the printer to partially hang on the side of a table, and then check the autoconnect/option tray cable for damage. <p>Is the autoconnect/option tray cable damaged?</p>	Go to step 10.	Go to step 11.
<p>Step 10</p> <ul style="list-style-type: none"> • If the printer autoconnector is damaged, then replace the tray 2 to controller board cable. • If the option tray autoconnector is damaged, then go to step 12. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 11</p> <ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.

Action	Yes	No
<p>Step 12</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Disconnect the cable at the JOPT1 connector on the controller board. 4 Turn on the printer. 5 Measure the following voltages on the JOPT1 connector on the controller board: <ul style="list-style-type: none"> • Pin 2: Ground • Pin 3: Ground • Pin 5: +24 V dc • Pin 6: Ground • Pin 7: +5 V dc • Pin 9: Ground • Pin 10: Ground <p>Are the voltage readings approximately the same?</p>	<p>Contact the next level of support.</p>	<p>Go to step 13.</p>
<p>Step 13</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	<p>Contact the next level of support.</p>	<p>The problem is solved.</p>

Failed To Load/Feed From The Multipurpose Feeder Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Make sure that the 650-sheet duo tray is tray 2. 2 Make sure that the 650-sheet duo tray is properly installed. 3 Fan the paper. 4 Make sure that the correct tray setting is set for the paper. 5 Verify the paper source. 6 Check the MPF pick tires for wear or damage, and replace if necessary. 7 Make sure that the tray insert is fully inserted. 8 Make sure that the paper is free from damage and defects. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check if the printer is using both the 650-sheet duo tray and 550-sheet tray.</p> <p>Is the printer using both the 650-sheet duo tray and 550-sheet tray?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the sequence of the option trays is correct. The 650-sheet duo tray should be tray 2, and the 550-sheet tray should be tray 3. 2 Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > Motor tests 3 Select a motor, and then select Start. <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 4.
<p>Step 4</p> <ol style="list-style-type: none"> 1 Isolate the problem. Verify the problem by installing only one option tray to the printer at a time. 2 Enter the Diagnostics menu, and then navigate to: 	Go to step 9.	Go to step 5.

Action	Yes	No
<p>Additional input tray diagnostics > Motor tests</p> <p>3 Select a motor, and the select Start.</p> <p>Does the motor run on each input option?</p>		
<p>Step 5</p> <p>Check the following for any damage:</p> <ul style="list-style-type: none"> • Input tray • Paper restrains • Paper dams • Pick pads • MPF gear • MPF pick assembly • MPF tray <p>Is the option tray free of damage?</p>	Go to step 6.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 6</p> <p>1 Make sure that the pick tire is free of contamination.</p> <p>2 Check the pick tire for proper installation and damage.</p> <p>Is the pick tire properly installed and free of damage?</p>	Go to step 9.	Go to step 7.
<p>Step 7</p> <p>Replace the pick tire. See Pick tire removal.</p> <p>Does the problem remain?</p>	Go to step 8.	The problem is solved.
<p>Step 8</p> <p>1 Check the tray insert for damage or contamination.</p> <p>2 Check the following for damage or contamination:</p> <ul style="list-style-type: none"> • Top and bottom autoconnector • Sensor (pass-through) • Feed rollers • Input option pick assembly <p>Is the tray insert free of damage or contamination?</p>	Go to step 9.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 9</p> <p>1 Turn off the printer.</p>	Go to step 10.	Go to step 12.

Diagnostics and Troubleshooting

Action	Yes	No
<p>2 Remove the printer from the trays.</p> <p>3 Remove the rear cover. See Rear cover removal.</p> <p>4 Reseat the JOPT1 cable on the controller board.</p> <p>5 Check the JOPT1 cable for damage, and replace if necessary.</p> <p>6 Position the printer to partially hang on the side of a table, and then check the autoconnect/option tray cable for damage.</p> <p>Is the autoconnect/option tray cable damaged?</p>		
<p>Step 10</p> <ul style="list-style-type: none"> • If the printer autoconnector is damaged, then replace the tray 2 to controller board cable. • If the option tray autoconnector is damaged, then go to step 12. <p>Does the problem remain?</p>	Go to step 11.	The problem is solved.
<p>Step 11</p> <ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.

Action	Yes	No
<p>Step 12</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Disconnect the JOPT1 cable on the controller board. 4 Turn on the printer. 5 Measure the following voltages on the JOPT1 connector on the controller board: <ul style="list-style-type: none"> • Pin 2: Ground • Pin 3: Ground • Pin 5: +24 V dc • Pin 6: Ground • Pin 7: +5 V dc • Pin 9: Ground • Pin 10: Ground <p>Are the voltage readings approximately the same?</p>	<p>Contact the next level of support.</p>	<p>Go to step 13.</p>
<p>Step 13</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	<p>Contact the next level of support.</p>	<p>The problem is solved.</p>

Failed To Feed From Option Tray and Leading Edge Damaged Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Fan the paper. 2 Verify the proper tray settings for the paper. 3 Verify the paper source. 4 Check the MPF pick tires for wear or damage, and replace if necessary. 5 Make sure that the tray is fully inserted. 6 Refer to the paper specifications and check the paper condition. 7 Make sure that the paper is free from damage and defects. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check if the printer is using both the 650-sheet duo tray and 550-sheet tray.</p> <p>Is the printer using both the 650-sheet duo tray and 550-sheet tray?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the sequence of the option trays is correct. The 650-sheet duo tray should be tray 2, and the 550-sheet tray should be tray 3. 2 Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > Motor tests 3 Select a motor, and then select Start. <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 4.
<p>Step 4</p> <ol style="list-style-type: none"> 1 Isolate the problem. Verify the problem by installing only one input option to the printer at a time. 2 Enter the Diagnostics menu, and then navigate to: 	Go to step 9.	Go to step 5.

Action	Yes	No
<p>Additional input tray diagnostics > Motor tests</p> <p>3 Select a motor, and then select Start.</p> <p>Does the test run successfully on each option?</p>		
<p>Step 5</p> <p>Check the following for any damage:</p> <p>For the 550-sheet tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads <p>For the 650-sheet duo tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads • MPF gear • MPF pick assembly • MPF tray <p>Is the tray free of damage?</p>	Go to step 6.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 6</p> <p>Check the pick tires for wear, damage, contamination, and proper installation.</p> <p>Is the pick tire properly installed and free of wear or damage?</p>	Go to step 7.	Go to step 8.
<p>Step 7</p> <p>Check the tray and the following for any damage or contamination:</p> <ul style="list-style-type: none"> • Top and bottom autoconnector • Sensor (pass-through) • Feed rollers • Input option pick assembly (if it can go down every time the tray is inserted) <p>Is the tray free of damage or contamination?</p>	Go to step 9.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
Step 8	Go to step 9.	The problem is solved.

Diagnostics and Troubleshooting

Action	Yes	No
<p>Replace the pick tire. See Pick tire removal.</p> <p>Does the problem remain?</p>		
<p>Step 9</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the printer from the trays. 3 Remove the rear cover. See Rear cover removal. 4 Reseat the JOPT1 cable on the controller board. 5 Check the JOPT1 cable for damage. 6 Position the printer to partially hang on the side of a table, and then check the autoconnect/option tray cable for damage. <p>Is the autoconnect/option tray cable damaged?</p>	Go to step 10.	Go to step 11.
<p>Step 10</p> <ul style="list-style-type: none"> • If the printer autoconnector is damaged, then replace the tray 2 to controller board cable. • If the option tray autoconnector is damaged, then go to step 12. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 11</p> <ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.

Action	Yes	No
<p>Step 12</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Disconnect the cable at the JOPT1 connector on the controller board. 4 Turn on the printer. 5 Measure the following voltages on the JOPT1 connector on the controller board: <ul style="list-style-type: none"> • Pin 2: Ground • Pin 3: Ground • Pin 5: +24 V dc • Pin 6: Ground • Pin 7: +5 V dc • Pin 9: Ground • Pin 10: Ground <p>Are the voltage readings approximately the same?</p>	Contact the next level of support.	Go to step 13.
<p>Step 13</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Tray 2 or Tray 3 Not Detected Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Perform a POR. 2 Reseat the option trays. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check if the printer is using both the 650-sheet duo tray and 550-sheet tray.</p> <p>Is the printer using both the 650-sheet duo tray and 550-sheet tray?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the sequence of the option trays is correct. The 650-sheet duo tray should 	Go to step 9.	Go to step 4.

Diagnostics and Troubleshooting

Action	Yes	No
<p>be tray 2, and the 550-sheet tray should be tray 3.</p> <p>2 Enter the Diagnostics menu, and then navigate to:</p> <p>Additional input tray diagnostics > Motor tests</p> <p>3 Select a motor, and then select Start.</p> <p>Does the test run successfully on each option?</p>		
<p>Step 4</p> <p>1 Isolate the problem. Verify the problem by installing only one input option to the printer at a time.</p> <p>2 Enter the Diagnostics menu, and then navigate to:</p> <p>Additional input tray diagnostics > Motor tests</p> <p>3 Select a motor, and then select Start.</p> <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 5.
<p>Step 5</p> <p>Check the following for any damage:</p> <p>For the 550-sheet tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads <p>For the 650-sheet duo tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads • MPF gear • MPF pick assembly • MPF tray <p>Is the tray free of damage?</p>	Go to step 6.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
Step 6	Go to step 7.	Go to step 8.

Action	Yes	No
<p>Check the pick tires for wear, damage, contamination, and proper installation.</p> <p>Is the pick tire properly installed and free of wear or damage?</p>		
<p>Step 7</p> <p>Check the tray and the following for any damage or contamination:</p> <ul style="list-style-type: none"> • Top and bottom autoconnector • Sensor (pass-through) • Feed rollers • Input option pick assembly (if it can go down every time the tray is inserted) <p>Is the tray free of damage or contamination?</p>	Go to step 9.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 8</p> <p>Replace the pick tire. See Pick tire removal.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the printer from the trays. 3 Remove the rear cover. See Rear cover removal. 4 Reseat the JOPT1 cable on the controller board. 5 Check the JOPT1 cable for damage, and replace if necessary. 6 Position the printer to partially hang on the side of a table, and then check the autoconnect/option tray cable for damage. <p>Is the tray autoconnect/option tray cable damaged?</p>	Go to step 10.	Go to step 11.
<p>Step 10</p> <ul style="list-style-type: none"> • If the printer autoconnector is damaged, then replace the tray 2 to controller board cable. • If the option tray autoconnector is damaged, then go to step 12. 	Go to step 12.	The problem is solved.

Diagnostics and Troubleshooting

Action	Yes	No
Does the problem remain?		
Step 11 <ul style="list-style-type: none"> If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. If a 550-sheet tray insert is affected, then replace the 550-sheet tray. Does the problem remain?	Go to step 12.	The problem is solved.
Step 12 <ol style="list-style-type: none"> Turn off the printer. Remove the rear cover. See Rear cover removal. Disconnect the cable at the JOPT1 connector on the controller board. Turn on the printer. Measure the following voltages on the JOPT1 connector on the controller board: <ul style="list-style-type: none"> Pin 2: Ground Pin 3: Ground Pin 5: +24 V dc Pin 6: Ground Pin 7: +5 V dc Pin 9: Ground Pin 10: Ground Are the voltage readings approximately the same?	Contact the next level of support.	Go to step 13.
Step 13 <p>Replace the controller board. See Controller board removal.</p> Does the problem remain?	Contact the next level of support.	The problem is solved.

Tray 2 or Tray 3 Missing Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Perform a POR. 2 Reseat the option trays. 3 Reseat the tray inserts. 4 Make sure that the paper pick assembly can be manually triggered. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check if the printer is using both the 650-sheet duo tray and 550-sheet tray.</p> <p>Is the printer using both the 650-sheet duo tray and 550-sheet tray?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <ol style="list-style-type: none"> 1 Make sure that the sequence of the option trays is correct. The 650-sheet duo tray should be tray 2, and the 550-sheet tray should be tray 3. 2 Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > Motor tests 3 Select a motor, and then select Start. <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 4.
<p>Step 4</p> <ol style="list-style-type: none"> 1 Isolate the problem. Verify the problem by installing only one input option to the printer at a time. 2 Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics > Motor tests 3 Select a motor, and then select Start. <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 5.

Action	Yes	No
<p>Step 5</p> <p>Check the following for any damage:</p> <p>For the 550-sheet tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads <p>For the 650-sheet duo tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads • MPF gear • MPF pick assembly • MPF tray <p>Is the tray free of damage?</p>	Go to step 6.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 6</p> <p>Check the pick tires for wear, damage, contamination, and proper installation.</p> <p>Is the pick tire properly installed and free of wear or damage?</p>	Go to step 7.	Go to step 8.
<p>Step 7</p> <p>Check the tray and the following for any damage or contamination:</p> <ul style="list-style-type: none"> • Top and bottom autoconnector • Sensor (pass-through) • Feed rollers • Input option pick assembly (if it can go down every time the tray is inserted) <p>Is the tray free of damage or contamination?</p>	Go to step 9.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 8</p> <p>Replace the pick tire. See Pick tire removal.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p> <p>1 Turn off the printer.</p>	Go to step 10.	Go to step 11.

Action	Yes	No
<p>2 Remove the printer from the trays.</p> <p>3 Remove the rear cover. See Rear cover removal.</p> <p>4 Reseat the JOPT1 cable on the controller board.</p> <p>5 Check the JOPT1 cable for damage, and replace if necessary.</p> <p>6 Position the printer to partially hang on the side of a table, and then check the autoconnect/option tray cable for damage.</p> <p>Is the autoconnect/option tray cable damaged?</p>		
<p>Step 10</p> <ul style="list-style-type: none"> • If the printer autoconnector is damaged, then replace the tray 2 to controller board cable. • If the option tray autoconnector is damaged, then go to step 12. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 11</p> <ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.

Action	Yes	No
<p>Step 12</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Disconnect the cable at the JOPT1 connector on the controller board. 4 Turn on the printer. 5 Measure the following voltages on the JOPT1 connector on the controller board: <ul style="list-style-type: none"> • Pin 2: Ground • Pin 3: Ground • Pin 5: +24 V dc • Pin 6: Ground • Pin 7: +5 V dc • Pin 9: Ground • Pin 10: Ground <p>Are the voltage readings approximately the same?</p>	Contact the next level of support.	Go to step 13.
<p>Step 13</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Tray 2 or Tray 3 Empty Service Check

Action	Yes	No
<p>Step 1</p> <ol style="list-style-type: none"> 1 Add paper in the tray. 2 Properly set the paper restraints in the tray. 3 Perform a POR. 4 Reseat the option trays. 5 Refer to the paper specifications and check the condition of the paper. 6 Make sure that the paper is free from damage and defects. <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check if the printer is using both the 650-sheet duo tray and 550-sheet tray.</p>	Go to step 3.	Go to step 4.

Action	Yes	No
Is the printer using both the 650-sheet duo tray and 550-sheet tray?		
<p>Step 3</p> <p>1 Make sure that the sequence of the option trays is correct. The 650-sheet duo tray should be tray 2, and the 550-sheet tray should be tray 3.</p> <p>2 Enter the Diagnostics menu, and then navigate to:</p> <p>Additional input tray diagnostics > Motor tests</p> <p>3 Select a motor, and then select Start.</p> <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 4.
<p>Step 4</p> <p>1 Isolate the problem. Verify the problem by installing only one input option to the printer at a time.</p> <p>2 Enter the Diagnostics menu, and then navigate to:</p> <p>Additional input tray diagnostics > Motor tests</p> <p>3 Select a motor, and then select Start.</p> <p>Does the test run successfully on each option?</p>	Go to step 9.	Go to step 5.
<p>Step 5</p> <p>Check the following for any damage:</p> <p>For the 550-sheet tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads <p>For the 650-sheet duo tray</p> <ul style="list-style-type: none"> • Tray insert • Paper restraints • Paper dams • Pick pads 	Go to step 6.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.

Diagnostics and Troubleshooting

Action	Yes	No
<ul style="list-style-type: none"> • MPF gear • MPF pick assembly • MPF tray <p>Is the tray free of damage?</p>		
<p>Step 6</p> <p>Check the pick tires for wear, damage, contamination, and proper installation.</p> <p>Is the pick tire properly installed and free of wear or damage?</p>	Go to step 7.	Go to step 8.
<p>Step 7</p> <p>Check the tray and the following for any damage or contamination:</p> <ul style="list-style-type: none"> • Top and bottom autoconnector • Sensor (pass-through) • Feed rollers • Input option pick assembly (if it can go down every time the tray is inserted) <p>Is the tray free of damage or contamination?</p>	Go to step 9.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.
<p>Step 8</p> <p>Replace the pick tire. See Pick tire removal.</p> <p>Does the problem remain?</p>	Go to step 9.	The problem is solved.
<p>Step 9</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the printer from the trays. 3 Remove the rear cover. See Rear cover removal. 4 Reseat the JOPT1 cable on the controller board. 5 Check the JOPT1 cable for damage, and replace if necessary. 6 Position the printer to partially hang on the side of a table, and then check the autoconnect/option tray cable for damage. <p>Is the autoconnect/option tray cable damaged?</p>	Go to step 10.	Go to step 11.

Action	Yes	No
<p>Step 10</p> <ul style="list-style-type: none"> • If the printer autoconnector is damaged, then replace the tray 2 to controller board cable. • If the option tray autoconnector is damaged, then go to step 12. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 11</p> <ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray. <p>Does the problem remain?</p>	Go to step 12.	The problem is solved.
<p>Step 12</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Disconnect the cable at the JOPT1 connector on the controller board. 4 Turn on the printer. 5 Measure the following voltages on the JOPT1 connector on the controller board: <ul style="list-style-type: none"> • Pin 2: Ground • Pin 3: Ground • Pin 5: +24 V dc • Pin 6: Ground • Pin 7: +5 V dc • Pin 9: Ground • Pin 10: Ground <p>Are the voltage readings approximately the same?</p>	Contact the next level of support.	Go to step 13.
<p>Step 13</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Incompatible Tray 3 Service Check

Action	Yes	No
<p>Step 1</p> <p>1 Make sure that the sequence of the option trays is correct. The 650-sheet duo tray should be tray 2, and the 550-sheet tray should be tray 3.</p> <p>2 Reseat the option trays.</p> <p>Does the problem remain?</p>	Go to step 2.	The problem is solved.
<p>Step 2</p> <p>Check if the printer is using both the 650-sheet duo tray and 550-sheet tray.</p> <p>Is the printer using both the 650-sheet duo tray and 550-sheet tray?</p>	Go to step 3.	Go to step 4.
<p>Step 3</p> <p>1 Enter the Diagnostics menu, and then navigate to:</p> <p>Additional input tray diagnostics > Motor tests</p> <p>2 Select a motor, and then select Start.</p> <p>Does the test run successfully on each option?</p>	Go to step 7.	Go to step 4.
<p>Step 4</p> <p>1 Isolate the problem. Verify the problem by installing only one input option to the printer at a time.</p> <p>2 Enter the Diagnostics menu, and then navigate to:</p> <p>Additional input tray diagnostics > Motor tests</p> <p>3 Select a motor, and then select Start.</p> <p>Does the test run successfully on each option?</p>	Go to step 7.	Go to step 5.
<p>Step 5</p> <p>Check the tray and the following for any damage or contamination:</p> <ul style="list-style-type: none"> • Top and bottom autoconnector • Sensor (pass-through) 	Go to step 7.	<ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray.

Action	Yes	No
<ul style="list-style-type: none"> • Feed rollers • Input option pick assembly (if it can go down every time the tray is inserted) <p>Is the tray free of damage or contamination?</p>		
<p>Step 6</p> <p>Replace the pick tire. See Pick tire removal.</p> <p>Does the problem remain?</p>	Go to step 7.	The problem is solved.
<p>Step 7</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the printer from the trays. 3 Remove the rear cover. See Rear cover removal. 4 Reseat the JOPT1 cable on the controller board. 5 Check the JOPT1 cable for damage, and replace if necessary. 6 Position the printer to partially hang on the side of a table, and then check the autoconnect/option tray cable for damage. <p>Is the autoconnect/option tray cable damaged?</p>	Go to step 8.	Go to step 9.
<p>Step 8</p> <ul style="list-style-type: none"> • If the printer autoconnector is damaged, then replace the tray 2 to controller board cable. • If the option tray autoconnector is damaged, then go to step 12. <p>Does the problem remain?</p>	Go to step 10.	The problem is solved.
<p>Step 9</p> <ul style="list-style-type: none"> • If a 650-sheet duo tray insert is affected, then replace the 650-sheet duo tray. • If a 550-sheet tray insert is affected, then replace the 550-sheet tray. <p>Does the problem remain?</p>	Go to step 10.	The problem is solved.

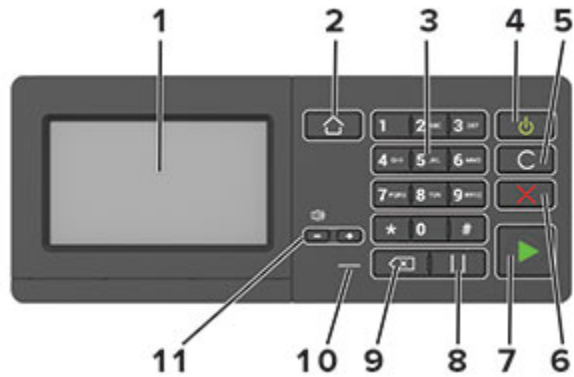
Diagnostics and Troubleshooting

Action	Yes	No
<p>Step 10</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Remove the rear cover. See Rear cover removal. 3 Disconnect the cable at the JOPT1 connector on the controller board. 4 Turn on the printer. 5 Measure the following voltages on the JOPT1 connector on the controller board: <ul style="list-style-type: none"> • Pin 2: Ground • Pin 3: Ground • Pin 5: +24 V dc • Pin 6: Ground • Pin 7: +5 V dc • Pin 9: Ground • Pin 10: Ground <p>Are the voltage readings approximately the same?</p>	Contact the next level of support.	Go to step 11.
<p>Step 11</p> <p>Replace the controller board. See Controller board removal.</p> <p>Does the problem remain?</p>	Contact the next level of support.	The problem is solved.

Service Menus

Using The Control Panel

Xerox C315



	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	Numeric keypad	Enter numbers or symbols in an input field.
4	Power button	<ul style="list-style-type: none"> Turn on or turn off the printer. <p>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.
5	Clear all or Reset button	Reset the default settings of a function such as copying, faxing, or scanning.
6	Stop or Cancel button	Stop the current printer task.
7	Start button	Start a job, depending on which mode is selected.
8	Pause button	Place a dial pause in a fax number.
9	Backspace button	Move the cursor backward and delete a character in an input field.


	Use the	To
10	Indicator light	Check the printer status.
11	Volume buttons	Adjust the speaker volume.

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	Settings	Access the printer menus.
4	Fax	Send fax.

Service Menus


Touch		To
5	Address Book	Manage a contact list that other applications on the printer can access.
6	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. <p>You can also access this setting by touching the top section of the home screen.</p>
7	USB Drive	<ul style="list-style-type: none"> • Print photos and documents from a flash drive. • Scan photos and documents to a flash drive
8	Job Queue	Show all the current print jobs. You can also access this setting by touching the top section of the home screen.
9	Held Jobs	Show the print jobs that are held in the printer memory.
10	Shortcut Center	Organize all shortcuts.
11	App Profiles	Access application profiles.
12	Scan Profiles	Scan and save documents directly to the computer.
13	FTP	Scan and save documents directly to an FTP server.
14	Bookmarks	Organize all bookmarks.
15	Change Language	Change the language on the display.

Configuring The Door Interlock Bypass Jumpers

 **Note:** The interlock bypass jumpers are only used with the following motors:

- Motor (fuser)
- Motor (K developer)
- Motor (transfer module)
- Motor (duplex/MPF)

The controller board has two door interlock bypass jumpers. These jumpers allow you to remove the motor cover and open the toner door to see the motors in operation while being tested in Diagnostics mode. The JMTREN1 jumper connector allows you to bypass the interlock switches, and test the motor (fuser) and motor (K developer/transfer module). The JMTREN2 jumper connector allows you to bypass the interlock switches, and test the motor (duplex/MPF).

 **Note:** If the jumpers are not set to the bypass position, and a motor test is performed while the toner door is open, then a 1yy.80 error occurs.

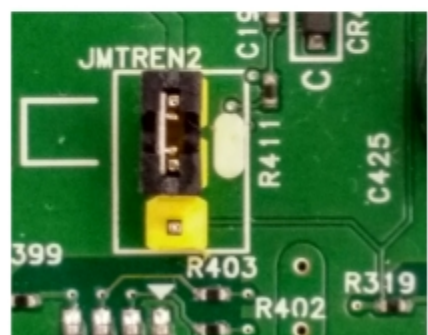
Jumper configurations



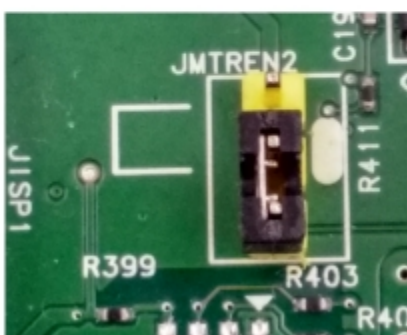
Interlock bypass disabled
(default)



Interlock bypass enabled



Interlock bypass disabled
(default)



Interlock bypass enabled

Setting the jumper

1. Turn off the printer.
2. Remove the rear cover. See [Rear cover removal](#).

Service Menu

3. Locate the jumper connectors on the controller board.
4. Move the jumper of the motor being tested to the bypass position.
5. From the control panel, press and hold the **3** and **6** buttons while turning on the printer to enter the Diagnostics menu.
6. Select **Printer diagnostics & adjustments > Motor tests**.
7. Select a motor, and then press **OK** or touch **Start**.
8. After the test, turn off the printer, and then move the jumpers back to the default position.



Note: If the jumpers are not moved to the default position, then a False door open message appears on the screen.

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 from the home screen, press * * 3 6 on the control panel.

Reports

Device Settings

This report lists all the current printer settings.

Enter the Diagnostics menu, and then navigate to:

Reports > Device > Device Settings

For non-touch-screen printer models, press  to navigate through the settings.

Installed Licenses

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

Enter the Diagnostics menu, and then navigate to:

Reports > Licenses > Installed Licenses

For non-touch-screen printer models, press  to navigate through the settings.

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

For non-touch-screen printer models, press  to navigate through the settings.

Format Fax Storage

This setting deletes stored fax jobs.

Service Menus

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

Format Fax Storage > Format Fax Storage

For non-touch-screen printer models, press  to navigate through the settings.

2. Press  or touch **Start**.

Event Log

Display Log

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

Enter the Diagnostics menu, and then navigate to:

Event Log > Display Log

For non-touch-screen printer models, press  to navigate through the settings.

Print Log


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

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

Event Log > Print Log

For non-touch-screen printer models, press  to navigate through the settings.

2. Press  or touch **Start**.

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

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

For non-touch-screen printer models, press  to navigate through the settings.

2. Press  or touch **Start**.

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


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

For non-touch-screen printer models, press  to navigate through the settings.

2. Select a log that you want to create, and then press  or 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 select **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 select **Start**.

Printer Setup

Printed Page Count (mono)

This setting displays the amount of pages printed in mono.

1. Enter the Diagnostics menu, and then select **Printer Setup**.
2. View the printed page count for mono.

Printed Page Count (color)

This setting displays the amount of pages printed in color.

1. Enter the Diagnostics menu, and then select **Printer Setup**.
2. View the printed page count for color.

Permanent Page Count

This setting displays 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 select **Printer Setup**.
2. View the permanent page count.

Processor ID

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

Service Menus

1. Enter the Diagnostics menu, and then select **Printer Setup**.
2. View the processor ID.

Serial Number

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


1. Enter the Diagnostics menu, and then select **Printer Setup**.
2. View the serial number.

Model Name

This setting displays the model name of the printer.


1. Enter the Diagnostics menu, and then select **Printer Setup**.
2. View the model name.

Engine Setting [x]


 **Warning:** Do not change this setting without specific instructions from the next level of support.

This setting allows you to select a printer engine setting. Possible values are 0–255. 0 is the default.

For non-touch-screen printer models, press  to navigate through the settings.

1. Enter the Diagnostics menu, and then navigate to:
Printer Setup > Engine setting [x]
2. Select a setting, enter a value, and then press  or touch **OK**.

EP Setup

 **Warning:** Do not change these settings without specific instructions from the next level of support. Changing these settings may cause other problems to occur aside from the one being resolved.

This setting allows you to adjust the EP setup of the printer.

For non-touch-screen printer models, press  to navigate through the settings.

1. Enter the Diagnostics menu, and then navigate to:
Printer Setup > EP setup
2. Select a setting.

Charge Adjust, Developer Adjust, and Transfer Adjust

These settings enable you to adjust the high voltage levels controlling the electrophotographic process. Use these settings to compensate for unusual operating circumstances such as high humidity.

To adjust the voltage levels:

1. Select a component to adjust:
 - To adjust the photoconductor, enter the Diagnostics menu, and then navigate to:
Printer Setup > EP setup > Charge adjust
 - To adjust the developer unit, enter the Diagnostics menu, and then navigate to:
Printer Setup > EP setup > Developer adjust
 - To adjust the transfer module, enter the Diagnostics menu, and then navigate to:
Printer Setup > EP setup > Transfer adjust
2. Select a color to adjust.

Fuser Adjust

This adjustment can be used to help solve some customer problems with paper curl or fuse quality on certain non-standard paper or unique run modes.

To adjust the fuser temperature:

1. Enter the Diagnostics menu, and then navigate to:
Printer Setup > EP setup > Fuser adjust
2. Select Normal, High, or Low. The default is Normal.

Toner Patch Sensor Adjust

This setting allows you to calibrate or adjust the toner patch sensor settings.

To calibrate or adjust the toner patch sensor:

1. Enter the Diagnostics menu, and then navigate to:
Printer Setup > EP setup > Toner patch sensor adjust
2. Select a setting to adjust or calibrate.

Printer Diagnostics and Adjustments

Sensor Tests

1. Enter the Diagnostics menu, and then select **Printer diagnostics & adjustments**.
2. From the Sensor tests section, select **Start**.

A list of sensor tests appears.

3. Find, and then manually toggle the sensor.

 **Note:**

- 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.
- For the fuser exit sensor actuator, toggle it toward the rear door.

List Of Sensor Tests


Test
Tray 1 pick
Input
Redrive/Duplex path 1
Output bin/Narrow media
Fuser exit
Door interlock
K Toner meter
C Toner meter
M Toner meter
Y Toner meter
Tray present
TPS L and R
Waste Toner Bottle

Motor Tests

For non-touch-screen printer models, press  to navigate through the settings.


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

Printer diagnostics & adjustments > Motor tests

2. Select a motor, and then press  or touch **Start**.

 **Note:**

- If the motor is activated, then it is properly working.
- 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, the test failure may not indicate a failed motor. Further troubleshooting may be required. Check the boards and cables for possible issues.
- To stop a running motor in non-touch-screen printer models, press .

List Of Motor Tests

Test
Pick (tray 1) picking
Pick (tray 1) duplex
Fuser (fusing)
Fuser (retracting)
CMY developer
K developer-transfer
Fan (main)

Registration Adjust

This setting lets you adjust the skew, margins, or perform a Quick Test.

For non-touch-screen printer models, press  to navigate through the settings.

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

Color Alignment Adjust

This setting allows you to adjust the color alignments and to print or reset the default settings.

For non-touch-screen printer models, press  to navigate through the settings.


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

Supply Reset

The setting resets the fuser and ITM counter values to zero.

For non-touch-screen printer models, press  to navigate through the settings.

Service Menus

1. Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Supply reset
2. Select a setting, and then press  or touch **Start**.

Add-on Cards Tests

This setting allows you to test the add-on cards installed on the printer.


For non-touch-screen printer models, press  to navigate through the settings.

1. Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Add-on cards tests
2. Select a card.

Weather Station

This setting lets you view the temperature and humidity reported by the weather station.

For non-touch-screen printer models, press  to navigate through the settings.

1. Enter the Diagnostics menu, and then touch **Printer diagnostics & adjustments**.
2. From the Weather station section, press  or touch **Start**.

Universal Override


This setting allows the user to feed custom media sizes to a Custom Media Tray.

For non-touch-screen printer models, press  to navigate through the settings.

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

Memory Tests

For non-touch-screen printer models, press  to navigate through the settings.

1. Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Memory tests
2. Select a test, and then press  or touch **Start**.

Scanner Diagnostics

Motor Tests

For non-touch-screen printer models, press  to navigate through the settings.

1. Enter the Diagnostics menu, and then select navigate to:

Scanner Diagnostics > Motor Tests

2. Select a motor, and then press  or touch **Start**.

 **Note:**

- If the motor is activated, then it 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.

List Of Motor Tests

Flatbed Scanner
Run ADF Transport Forward
ADF Stop Transport
ADF Pick

Sensor Tests

This test verifies the status of the scanner sensors.

For non-touch-screen printer models, press  to navigate through the settings.

1. Enter the Diagnostics menu, and then select **Scanner Diagnostics**.

2. From the Sensor tests section, press  or touch **Start**.

A dialog listing the sensor tests appears.

3. Find, and then manually toggle the sensor.

 **Note:**

- 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

FB CCD home
ADF closed
ADF media present
ADF pick
ADF deskew
ADF 1st scan
ADF 2nd scan
ADF top door interlock
ADF calibration strip home

Feed Test

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


For non-touch-screen printer models, press  to navigate through the settings.

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

Scanner Calibration Reset

Before starting the test, make sure that the scanner glass and backing material are clean. For more information, go to .

For non-touch-screen printer models, press  to navigate through the settings.

1. Enter the Diagnostics menu, and then select **Scanner Diagnostics**.
2. From the Sensor Calibration Test section, press  or 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.

 **Note:**

- 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.

Controller Calibration

This test must be done when the scanner controller or flatbed scanner is changed.

For non-touch-screen printer models, press  to navigate through the settings.


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

Scanner Diagnostics > Controller Calibration

2. Press  or touch **Start**.

Additional Input Tray Diagnostics

Sensor Tests

1. Enter the Diagnostics menu, and then select **Additional input tray diagnostics**.
2. From the Sensor tests section, press  or touch **Start**.
A dialog listing the sensor tests appears.
3. Find, and then manually toggle the sensor.

 **Note:**

- 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

Test
Pass-through (tray [x])
Media out (tray [x])
Media level (tray [x])

Test
Tray present (tray [x])
MPF media present

Motor Tests


For non-touch-screen printer models, press  to navigate through the settings.

1. Enter the Diagnostics menu, and then navigate to:
Additional input tray diagnostics > Motor tests
2. Select a motor, and then press  or touch **Start**.

 **Note:**

- If the motor is activated, then it 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.


Configuration Menu

Menu item	Description
USB Configuration USB PnP 1* 2	Change the USB driver mode of the printer to improve its compatibility with a personal computer. This menu item appears only in some printer models.
USB Scan to Local On* Off	Set whether the USB device driver enumerates as a USB Simple device (single interface) or as a USB Composite device (multiple interfaces).
USB Configuration USB Speed Full Auto*	Set the USB port to run at full speed and disable its high-speed capabilities. This menu item appears only in some printer models.
Tray Configuration Tray Linking Automatic* Off	Set the printer to link the trays that have the same paper type and paper size settings.
Tray Configuration Show Tray Insert Message Off* On	Show the Tray Insert message.
Tray Configuration Paper Prompts Auto* Multipurpose Feeder Manual Paper Envelope Prompts Auto* Multipurpose Feeder Manual Paper	Set the paper source that the user fills when a prompt to load paper or envelope appears.  Note: <ul style="list-style-type: none"> The multipurpose feeder is available only in some printer models. For Multipurpose Feeder to appear, set Configure MP to Cassette from the Paper menu.
Tray Configuration Action for Prompts Prompt user* Continue	Set the printer to resolve paper- or envelope-related change prompts.

Service Menus

Menu item	Description
Use current	
Reports Menu Settings Page Event Log Event Log Summary HealthCheck Statistics	Print reports about printer menu settings, status, and event logs.
Supply Usage And Counters Clear Supply Usage History	Reset the supply usage history, such as number of pages and days remaining, to the factory shipped level.
Supply Usage And Counters Reset Maintenance Counter	Reset the counter after installing a new maintenance kit.
Supply Usage And Counters Tiered Coverage Ranges	Adjust the range for the amount of color coverage on the printed page.
Printer Emulations PPDS Emulation Off* On	Set the printer to recognize and use the PPDS data stream.
Fax Configuration Fax Low Power Support Disable Sleep Permit Sleep Auto*	Set fax to enter Sleep mode whenever the printer determines that it should.
Fax Configuration Fax Storage Location Disk NAND*	Set the storage location for all faxes.
Print Configuration Black Only Mode Off* On	Print color content in grayscale.
Print Configuration Color Trapping Off 1	Enhance the printed output to compensate for misregistration in the printer.

Menu item	Description
2* 3 4 5	
Print Configuration Font Sharpening 0–150 (24*)	Set a text point-size value below which the high-frequency screens are used when printing font data. For example, if the value is 24, then all fonts sized 24 points or less use the high-frequency screens.
Device Operations Quiet Mode Off* On	Set the printer to operate in Quiet Mode. Enabling this setting slows down the printer performance.
Device Operations Panel Menus Off On*	Enable access to the control panel menus.
Device Operations Custom Supply Levels Off* On	Let <i>printservice</i> read and edit values from the Embedded Web Server.
Device Operations Safe Mode Off* On	Set the printer to operate in a special mode, in which it attempts to continue offering as much functionality as possible, despite known issues. For example, when set to On, and the duplex motor is nonfunctional, the printer performs one-sided printing of the documents even if the job is two-sided printing.
Device Operations Minimum Copy Memory 80 MB* 100 MB	Set the minimum memory allocation for storing copy jobs.
Device Operations Clear Custom Status	Erase user-defined strings for the Default or Alternate custom messages.
Device Operations Clear all remotely-installed messages	Erase messages that were remotely installed.

Menu item	Description
<p>Device Operations Automatically Display Error Screens Off On*</p>	<p>Show existing error messages on the display after the printer remains inactive on the home screen for a length of time equal to the Screen Timeout setting.</p>
<p>Device Operations Honor orientation on fast path copy On Off*</p>	<p>Enable the printer to use the orientation setting under the Copy menu when sending quick copy jobs.</p>
<p>Device Operations Enable Optional Parallel Port Off* On</p>	<p>Enable an optional parallel port. When set to On, the printer restarts.</p>
<p>Toner patch sensor setup Calibration frequency preference Disabled Fewest color adjustment Fewer color adjustment Normal* Better color accuracy Best color accuracy</p>	<p>Set the printer to put down the correct amount of toner to maintain color consistency.</p>
<p>Toner patch sensor setup Full calibration</p>	<p>Run the full color calibration.</p>
<p>Toner patch sensor setup Print TPS information page</p>	<p>Print a diagnostic page that contains information on toner patch sensor calibration.</p>
<p>App Configuration LES Applications Off On*</p>	<p>Enable the Lexmark Embedded Solutions (LES) applications.</p> <p> Note:</p> <ul style="list-style-type: none"> • This menu item is available only in some printer models. • When set to On, this setting does not affect built-in applications.
<p>Scanner Configuration Scanner Manual Registration Print Quick Test</p>	<p>Print a Quick Test target page.</p> <p>Make sure that the margin spacing on the target page is uniform all the way around the target. If it is not, then the printer margins may need to be reset.</p>

Menu item	Description
Scanner Configuration Scanner Manual Registration Front ADF Registration Rear ADF Registration Flatbed Registration	Manually register the flatbed and ADF after replacing the ADF, scanner glass, or controller board.
Scanner Configuration Edge Erase Flatbed Edge Erase 0–6 (3*) ADF Edge Erase 0–6 (3*)	Set the size, in millimeters, of the no-print area around an ADF or flatbed scan job.
Scanner Configuration ADF Deskew ADF Mechanical Deskew Off On Auto*	Set the printer to perform ADF mechanical skew adjustment.
Scanner Configuration Disabled Scanner Enabled* Disabled ADF Disabled	Disable the scanner when it is not working properly.
Scanner Configuration Tiff Byte Order CPU Endianness* Little Endian Big Endian	Set the byte order of a TIFF-formatted scan output.
Scanner Configuration Exact Tiff Rows Per Strip On* Off	Set the RowsPerStrip tag value of a TIFF-formatted scan output.
An asterisk (*) next to a value indicates the factory default setting.	

Service Engineer Menu


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.

General SE Menu


- Capture Logs to USB Drive

 **Note:** This setting allows you to save a log file to a USB drive.

- Code Versions
- Debug Level

Network SE Menu

Enter the SE menu, and then select **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 • netstat • arp • Allow SNMP Set • MTU • Meditech Mode • RAW LPR Mode • Garp Interval
Wireless Settings	<ul style="list-style-type: none"> • Wireless Performance Enhancement • Unset Wireless Region
Ping Test	<ul style="list-style-type: none"> • Ping Address • Attempts • Packet Size

Top-level menu	Intermediate menu
	<ul style="list-style-type: none"> • Ping
Other Actions	<ul style="list-style-type: none"> • ifconfig • IPtables [Firewall Dump] • IP6tables [Firewall Dump] • IPsec Dump
Enable DHCPD Debugging	N/A
Enable wpa-suplicant Debugging	N/A
Enable Ethernet Gigabit	N/A

Fax SE Menu

Use this menu to help resolve fax transmission and reception issues.

Enter the SE menu, and then touch **Fax SE Menu**.



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
Modem Settings	<ul style="list-style-type: none"> • Caller ID Pattern <p>Changing the value of this setting also changes the value of the Caller ID setting in the Fax Settings.</p> <ul style="list-style-type: none"> • Pulse Dial Type • Disable Sending CRP

Service Menus

Top-level menu	Intermediate menu
Fax logs	<ul style="list-style-type: none">• Print all T30 Logs• Print CallerID Log• Print Call Log• Print Fax Settings• Print Job Log• Print All T30 Log Errors• Print All Auto Captured Logs On• Print T38 Trace Log• Clear T38 Trace Log
Reboot System	N/A

Scanner SE Menu

Enter this setting to view the calibration data.

Entering Invalid Engine Mode

This mode allows the printer to load the correct firmware code.

1. Turn off the printer.
2. From the control panel, press and hold the **3**, **4**, and **6** while turning on the printer.
3. Release the buttons after 10 seconds.

Entering Recovery Mode

This mode allows the printer to boot from a secondary set of instructions and flash firmware code. While in this mode, you can only flash firmware code through a USB cable directly connected to a PC.

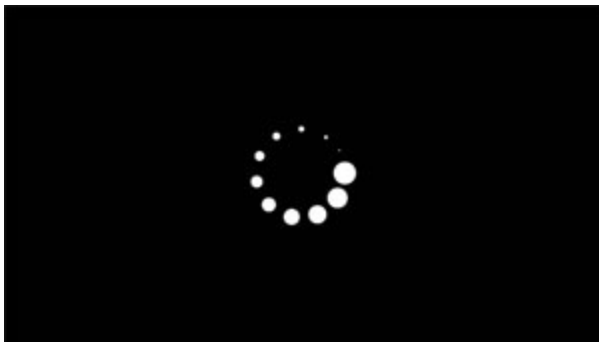
Depending on your printer model, do any of the following:

For LED Display

1. Turn off the printer.
2. Open the front door.
3. Press and hold the **Stop** button.
4. Turn on the printer.
5. When all the icons flash, release the button.

For 4.3-inch Displays

1. Turn off the printer.
2. Press and hold the **2**, **7**, and **8** buttons.
3. Turn on the printer.
4. When the display shows the following icon, release the buttons.



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 control panel, 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 control panel, 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 Xerox 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:** The low-voltage power supply (LVPS) and the high-voltage power supply (HVPS) may have residual voltage present. To avoid the risk of electrical shock, do not touch their circuit components or the solder side of the board. Only handle them by their outer edges or metal housing.
-  **CAUTION—SHOCK HAZARD:** This product uses an electronic power switch. It does not physically disconnect the input AC voltage. To avoid the risk of electrical shock, always remove the power cord from the printer when removal of the input AC voltage is required.
-  **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—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.






Précautions De Retrait

-  **ATTENTION ! RISQUE D'ÉLECTROCUTION :** Une tension résiduelle peut être présente dans le bloc d'alimentation basse tension (LVPS) et le bloc d'alimentation haute tension (HVPS). Pour éviter tout risque d'électrocution, ne touchez pas les composants du circuit ou le côté soudure de la carte. Tenez-les uniquement par leurs extrémités ou le boîtier en métal.
-  **ATTENTION ! RISQUE D'ÉLECTROCUTION :** Ce produit utilise un commutateur d'alimentation électronique. Il ne déconnecte pas physiquement la tension d'alimentation CA. Pour éviter tout risque d'électrocution, débranchez toujours le cordon d'alimentation de l'imprimante lorsque vous devez déconnecter la tension d'alimentation CA.
-  **ATTENTION ! RISQUE D'ÉLECTROCUTION :** Pour éviter tout risque d'électrocution et éviter d'endommager l'imprimante, débranchez le cordon d'alimentation de la prise électrique et déconnectez toute connexion à tout périphérique externe avant de brancher ou débrancher des câbles ou circuits et assemblages électroniques.
-  **ATTENTION ! SURFACE CHAUDE :** L'intérieur de l'imprimante risque d'être brûlant. pour réduire le risque de brûlure, laissez la surface ou le composant refroidir avant d'y toucher.
-  **ATTENTION ! RISQUE DE PINCEMENT :** Pour éviter tout risque de blessure par pincement, agissez avec précaution au niveau des zones signalées par cette étiquette. Les blessures par pincement peuvent se produire autour des pièces mobiles telles que les engrenages, portes, tiroirs et capots.






Precauciones Durante La Extracción

-  **PRECAUCIÓN—RIESGO DE DESCARGA:** La fuente de alimentación de bajo voltaje (LVPS) y la fuente de alimentación de alto voltaje (HVPS) pueden presentar voltaje residual. Para evitar el riesgo de descarga eléctrica, no toque los componentes del circuito ni el lateral soldado de la placa. Manipule solo los bordes exteriores o la carcasa metálica.
-  **PRECAUCIÓN—RIESGO DE DESCARGA:** Este producto utiliza un interruptor de corriente electrónico. No desconecta físicamente la entrada de voltaje de CA. Para evitar el riesgo de descarga eléctrica, desenchufe siempre el cable de alimentación de la impresora cuando sea necesario retirar la entrada de voltaje de CA.
-  **PRECAUCIÓN—RIESGO DE DESCARGA:** Para evitar el riesgo de descargas eléctricas y daños en la impresora, retire el cable de alimentación de la toma eléctrica y desconecte todas las conexiones a dispositivos externos antes de conectar o desconectar cualquier cable, placa electrónica o conjunto.
-  **PRECAUCIÓN—SUPERFICIE CALIENTE:** El interior de la impresora podría estar caliente. Para evitar el riesgo de heridas producidas por el contacto con un componente caliente, deje que la superficie se enfríe antes de tocarlo.
-  **PRECAUCIÓN—RIESGO DE DESCARGA ELÉCTRICA:** Para evitar el riesgo de lesión por atrapamiento, preste atención en las áreas marcadas con esta etiqueta. Las lesiones por atrapamiento se pueden producir en torno a partes móviles, tales como engranajes, puertas, bandejas y cubiertas.

Vorsichtsmaßnahmen Bei Der Demontage

-  **VORSICHT – STROMSCHLAGGEFAHR:** Im Niederspannungsnetzteil (LVPS) und Hochspannungsnetzteil (HVPS) liegt unter Umständen Restspannung vor. Um das Risiko eines elektrischen Schlags zu vermeiden, berühren Sie keine umliegenden Bauteile oder die Lötseite der Platine. Fassen Sie sie nur an den Außenkanten oder am Metallgehäuse an.
-  **VORSICHT – STROMSCHLAGGEFAHR:** Dieses Produkt verwendet einen elektronischen Leistungsschalter. Er trennt die Eingangswchselspannung nicht physikalisch. Um das Risiko eines elektrischen Schlags zu vermeiden, ziehen Sie stets das Netzkabel vom Drucker ab, wenn eine Abtrennung der Eingangswchselspannung erforderlich ist.
-  **VORSICHT – STROMSCHLAGGEFAHR:** Um das Risiko eines elektrischen Schlags und Schäden am Drucker zu vermeiden, ziehen Sie das Netzkabel aus der Steckdose und trennen Sie alle Verbindungen zu jeglichen externen Geräten, bevor Sie Kabel, Elektronikplatinen oder Baugruppen einstecken oder abziehen.
-  **VORSICHT – HEISS:** Das Innere des Druckers kann sehr heiß sein. Vermeiden Sie Verletzungen, indem Sie heiße Komponenten stets abkühlen lassen, bevor Sie ihre Oberfläche berühren.
-  **VORSICHT – QUETSCHGEFAHR:** Um das Risiko einer Quetschung zu vermeiden, gehen Sie in Bereichen, die mit diesem Etikett gekennzeichnet sind, mit Vorsicht vor. Quetschungen können im Bereich von beweglichen Komponenten auftreten, wie z.B. Zahnrädern, Klappen, Fächern und Abdeckungen.

Precauzioni per la rimozione


-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** Sull'alimentatore a bassa tensione (LVPS) e l'alimentatore ad alta tensione (HVPS) può essere presente tensione residua. Per evitare il rischio di scossa elettrica, non toccare i loro componenti elettrici o il lato saldatura della scheda. Toccarli soltanto dai bordi esterni o dall'alloggiamento in metallo.
-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** Questo prodotto utilizza un interruttore di alimentazione elettronico. Tale interruttore non scollega fisicamente la tensione CA in entrata. Per evitare il rischio di scossa elettrica, rimuovere sempre il cavo di alimentazione dalla stampante quando è necessario rimuovere la tensione CA in entrata.
-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** Per evitare il rischio di scossa elettrica e per impedire danni alla stampante, rimuovere il cavo di alimentazione dalla presa elettrica e scollegare tutti i collegamenti a eventuali dispositivi esterni prima di collegare o scollegare qualsiasi cavo, scheda elettronica o gruppo.
-  **ATTENZIONE – SUPERFICIE SURRISCALDATA:** L'area interna della stampante potrebbe surriscaldarsi. Per evitare infortuni, lasciare raffreddare la superficie dei componenti prima di toccarla.
-  **ATTENZIONE – PERICOLO DI SCHIACCIAMENTO:** Per evitare il rischio di lesioni, prestare la massima cautela quando si accede alle aree contrassegnate con questa etichetta. Potrebbero infatti verificarsi lesioni da schiacciamento in prossimità di parti in movimento, quali ad esempio ingranaggi, porte, vassoi e coperchi.



Handling ESD-sensitive Parts



To prevent damage to the electrostatic discharge (ESD)-sensitive parts in the printer, 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.
- Use the ESD wrist strap. 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 in 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.


Critical Information For Controller Board or Control Panel Replacement


 **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.


 **ATTENTION ! DOMMAGE POTENTIEL :**  La batterie lithium de ce produit n'est pas destinée à être remplacée. Il existe un risque d'explosion si une batterie lithium est placée de façon incorrecte. Ne rechargez pas, ne démontez pas et n'incinerez pas une batterie lithium. Mettez les batteries lithium usagées au rebut selon les instructions du fabricant et les réglementations locales.


 **PRECAUCIÓN—RIESGO DE LESIONES:**  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 según las instrucciones del fabricante y las normativas locales.

 **VORSICHT – 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.

 **ATTENZIONE – PERICOLO DI LESIONI:** La batteria al litio presente 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.

 **Warning:** Observe all precautions when handling ESD sensitive parts. See [Handling ESD-sensitive parts](#).


 **Warning:** Carefully remove the cables and connectors. Make sure they are not damaged.

 **Warning:** To avoid NVRAM mismatch issues, replace only one of the following components at a time:


- Control panel
- Controller board

To replace a component and to test whether the problem is resolved:

1. Replace the affected component.

 **Warning:** Do not perform a Power-On Reset (POR) until the problem is resolved. If a POR is performed at this point, then the replacement part can no longer be used in another printer and must be returned to the manufacturer.


2. Enter the Diagnostics menu. The Diagnostics menu allows you to temporarily use the replacement part.

 **Warning:** Some printers perform a POR automatically if the Diagnostics menu is not opened within five seconds. If a POR is performed at this point, then the replacement part can no longer be used in another printer and must be returned to the manufacturer.

3. Use the Diagnostics menu to test the replacement part. Do a feed test to check if the problem is resolved.
 - If the problem is not resolved—Turn off the printer, and then install the old part.
 - If the problem is resolved—Perform a POR.
 - If NVRAM error occurs during the replacement, then see [950.xx NVRAM Failure Service Check](#).

Restoring The Printer Configuration After Replacing The Controller Board

Restore the printer to its correct configuration. Contact your Hardware Support Line to obtain the applicable zip file. 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.

Extract the contents of the zip file.

- Perform the install instructions on the Readme file in the exact order shown. Restart the printer only if the file says so.
- For more information on how to flash the downloaded files, see [Updating the printer firmware](#).
- To load the zip file, see [Restoring solutions, licenses, and configuration settings](#).

After performing the installation instructions in the Readme file, confirm that the printer is restored.

- 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.

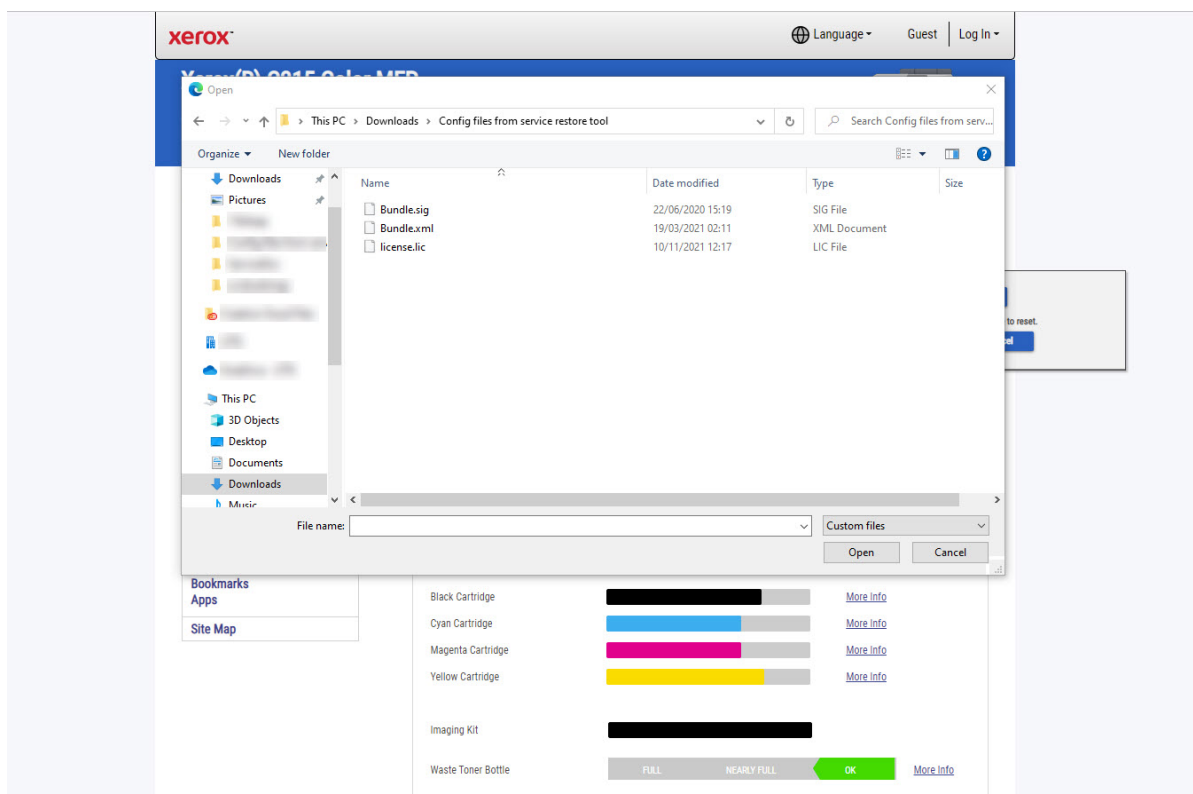
The screenshot displays the Xerox C315 Color MFP web interface. At the top, the Xerox logo is on the left, and 'Language', 'Guest', and 'Log In' are on the right. Below this is a blue header with the text 'Xerox(R) C315 Color MFP', 'IP Address :', 'Contact Name :', and 'Location :'. To the right of the header is an image of the printer. Below the header, the status is shown as 'Sleep'. There are 'Import Configuration' and 'Export Configuration' buttons. A search bar is present. On the left is a 'Select Option' menu with categories: Status, Settings (Device, Print, Paper, Copy, Fax, E-mail, FTP, USB Drive, Network/Ports, Security, Reports, Supplies Plan), Address Book, Shortcuts, Bookmarks, Apps, and Site Map. The main content area is titled 'Status' and includes sections for Messages, Alerts, Warnings, and Supplies. The Alerts and Warnings sections both show 'No alerts/warnings exist on the device.' The Supplies section shows progress bars for Black Cartridge, Cyan Cartridge, Magenta Cartridge, Yellow Cartridge, Imaging Kit, and Waste Toner Bottle. The Waste Toner Bottle is currently 'OK'.

Parts Removal

2. Click **Import Configuration**, and then click **Browse**.

The screenshot displays the Xerox C315 Color MFP web interface. At the top, the Xerox logo is on the left, and 'Language', 'Guest', and 'Log In' are on the right. A blue header bar contains the device name 'Xerox(R) C315 Color MFP' and fields for 'IP Address', 'Contact Name', and 'Location'. A small image of the printer is on the right. Below the header, the status is 'Sleep'. A search bar is present. On the left, a 'Select Option' menu lists various settings like Status, Settings, Alerts, and Supplies. The main content area shows 'Status', 'Messages', 'Alerts', 'Warnings', and 'Supplies' sections. A modal dialog box is open over the 'Supplies' section, titled 'Import Configuration' and 'Export Configuration'. It contains a 'Configuration file to import:' field with 'No file selected' and a 'Browse' button. Below this is a note: 'Note: Importing a settings file may cause the device to reset.' and 'Import' and 'Cancel' buttons.

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 step 4 for the other files that are included in the extracted zip file.

Updating The Printer Firmware

Warning: 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 procedure applies only to printer models with front USB support.

1. Insert the flash drive.
The display shows the files on the flash drive.
2. 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.


1. Turn on the printer.
2. Obtain the IP address:
 - From the home screen
 - From the Network Overview 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 step 2 through step 4 for the other files.

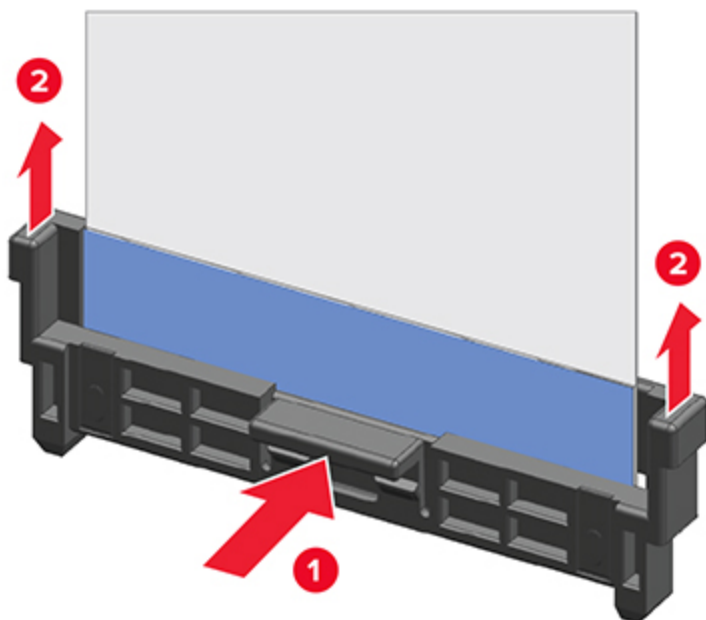
Using the Embedded Web Server

Make sure that the printer is in ready state before flashing.

1. Open a web browser, and then type the printer IP address.
2. From the home page, navigate to **Settings > Device > Update Firmware**.
3. Select the file to use.
The printer performs a POR sequence.
4. Repeat step 2 through step 4 for the other files.

Disconnecting Ribbon Cables

 **Warning:** 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

Zero Insertion Force (ZIF) connectors are used on the boards and cards used in this printer. Before inserting or removing a cable from these connectors, observe the following precautions.


- ⚠ **Warning:** Do not insert the cable so that the contacts are facing the locking actuator. The contacts always face away from the actuator.
- ⚠ **Warning:** Do not insert the cable diagonally into the ZIF socket. This action can damage the contacts on the cable.
- ⚠ **Warning:** Avoid using a fingernail, or sharp object to open the locking mechanism. This action can damage the cable.
- ⚠ **Warning:** Avoid pressing against the cable when opening the locking mechanism. This action can also damage the cable.

These are the types of ZIF connectors used in this printer:

- Horizontal top contact connector
- Horizontal bottom contact connector
- Vertical mount contact connector
- Horizontal sliding connector


Horizontal Top Contact Connector

The horizontal top contact connector uses a back flip locking actuator to lock the ribbon cable into the Zero Insertion Force (ZIF) connector. The cable is inserted horizontally into the connector.

 **Warning:** When opening or closing this type of actuator, gently lift or close the two tabs located on each end of the actuator. The two tabs should be moved simultaneously. Do not close the actuator from the center of the actuator.


Horizontal Bottom Contact Connector

The horizontal bottom contact connector uses a flip locking actuator to lock the ribbon cable into the Zero Insertion Force (ZIF) connector. The cable is inserted horizontally into the connector.

 **Warning:** 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. This can damage the ribbon cable. Do not close the actuator from the ends of the actuator.


Vertical Mount Contact Connector

The vertical mount contact connector uses a back flip locking actuator to lock the ribbon cable into the Zero Insertion Force (ZIF) connector. The cable is inserted vertically into the connector.


 **Warning:** 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. This could damage the ribbon cable. Do not close the actuator from the ends of the actuator.

Horizontal Sliding Contact Connector

The horizontal sliding contact connector uses a slide locking actuator to lock the ribbon cable into the Zero Insertion Force (ZIF) connector. The cable is inserted horizontally into the connector.

 **Warning:** 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. Damage to the cable or connector could occur.

Low Insertion Force (LIF) Connector

 **Warning:** When installing a cable into the LIF connector, make sure to avoid bending the edges of the cables and damaging the contacts on the cables.

Adjustments

Registration Adjustment

Image misalignments can occur after printhead replacement. Perform this procedure to correct the position of the image relative to the paper edges.

 **Note:** You cannot perform mechanical registration or skew adjustments on this printhead.

Before performing the procedure, make sure that the tray guides are properly set and the paper settings on the printer match the paper size loaded in the tray.

Adjusting The Skew

The skew adjustment changes the angle of the horizontal lines so that the lines can be aligned with the leading edge of the page. As the skew setting is changed, the top line on the test page stays in place at the left end, while its right end tilts up or down. All horizontal lines on the page will tilt at that same angle while the vertical lines will remain vertical. Changing the skew setting moves the right edge of the page up and down, and changes the angle of the top and bottom lines. If the skew is properly adjusted, the horizontal lines at the top of the page will be parallel to the leading edge of the page.

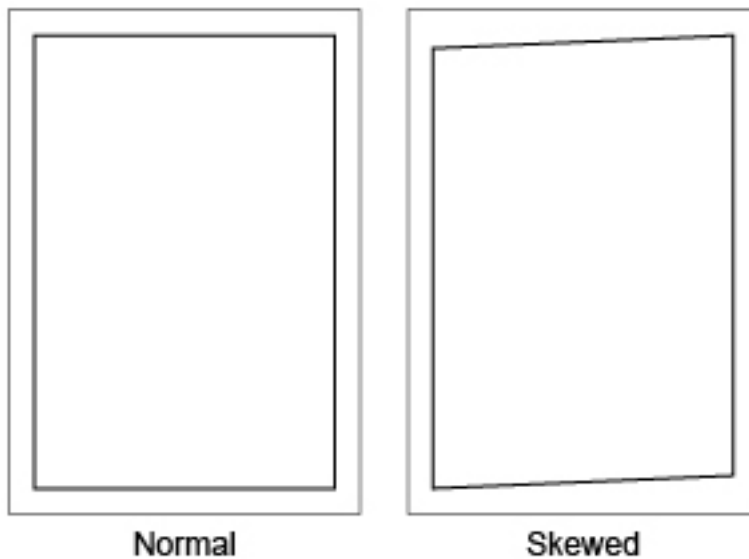
To check for skew:


1. Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Registration adjust

Parts Removal

2. Select **Quick Test**, and then press **OK** or touch **Start**.

The printer prints a test page.



 **Note:** If there is no skew on the page, then go to Adjusting the margins. See [Registration adjustment](#).

To adjust the skew:

1. Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Registration adjust > Skew
2. Specify the value. The value range is from -100 to 100.

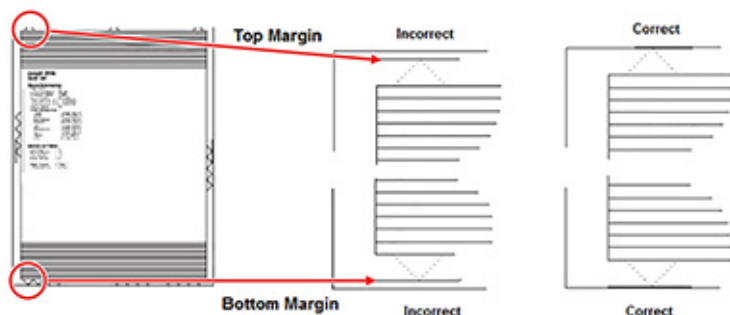
 **Note:**

- Raising the value of the skew rotates the horizontal lines clockwise. The left end of the line remains in the same place and the right end moves downward.
 - Decreasing the value of the skew rotates the horizontal lines counterclockwise. The left end of the line remains in the same place and the right end moves upward.
3. Select **OK**.
 4. Print a Quick test page to verify the change.
 5. Repeat steps 1 to 4 until the horizontal line is properly aligned with the leading edge of the page.
 6. Check for proper margin alignment. See [Registration adjustment](#).

Adjusting The Margins

To check for proper margin alignment:

1. Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Registration adjust
2. Select **Quick Test**, and then press **OK** or touch **Start**.
The printer prints a test page.
3. Check the top and bottom margins of the test page for proper alignment.



To adjust the margins:

1. Refer to the test page, and then check the arrows along the margins.

Note:

- The arrows should be completely visible along the edges.
- The tip of the arrows should point to the edges of the paper.

2. Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Registration adjust
3. Select the field of the margin to adjust.
4. Specify value. The value range is from -80 to 80.

Note:

- Raising the value of the top margin setting pushes the top edge of the image downward.
 - Raising the value of the bottom margin setting pushes the bottom edge of the image upward.
 - Raising the value of the left margin setting pushes the left margin to the right.
 - Raising the value of the right margin setting pushes the right margin to the left.
5. Select **OK**.
 6. Print a Quick test page to verify the change.
 7. Repeat step 3 through step 6 until the margins are properly adjusted.
 8. Check for proper color alignment. See [Registration adjustment](#).

Adjusting The Color Alignment

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

Printer diagnostics & adjustments > Color alignment adjust

On the AA Adjustment row, press **OK** or touch **Start**.



Note: The Color alignment procedure is performed on the cyan, magenta, and yellow colors.

2. Enter the Diagnostics menu, and then navigate to:

Printer diagnostics & adjustments > Color alignment adjust > Cyan > Quick test

Check the alignment markings on the test page generated. Follow the instructions on the test page to correct the color misalignment.

3. Enter the Diagnostics menu, and then navigate to:

Printer diagnostics & adjustments > Color alignment adjust > Yellow > Quick test

Check the alignment markings on the test page generated. Follow the instructions on the test page to correct the color misalignment.

4. Enter the Diagnostics menu, and then navigate to:

Printer diagnostics & adjustments > Color alignment adjust > Magenta > Quick test

Check the alignment markings on the test page generated. Follow the instructions on the test page to correct the color misalignment.

5. If color misalignment still occurs, then repeat step 1 through step 4.

Scanner Manual Registration

Use this setting to register the flatbed and ADF on the scanner. Perform a registration adjustment whenever the ADF, flatbed, or controller board is replaced.



Note: This setting does not appear if the Disable Scanner setting is set to Auto Disabled.

For more information on adjusting the scanner registration, see [ADF Registration Adjustment](#) and .

ADF Registration Adjustment

1. From the home screen, navigate to **Settings > Device > Maintenance > Configuration Menu > Scanner Configuration > Scanner Manual Registration**.
2. From the Print Quick Test section, press **OK** or touch **Start**.
3. Place the test page faceup on the ADF, and then select **Front ADF Registration**.
4. From the Copy Quick Test section, press **OK** or touch **Start**.
5. Compare the pages from the print quick and copy quick tests.
6. Adjust the value of the horizontal adjust, top margin, horizontal magnification, and vertical magnification settings.
7. Apply the changes.

8. Repeat step 2 through step 7 to make further adjustments.
9. From the Print Quick Test section, press **OK** or touch **Start**.
10. Place the quick test page facedown on the ADF, and then select **Rear ADF Registration**.
11. From the Copy Quick Test section, press **OK** or touch **Start**.
12. Compare the pages from the print quick and copy quick tests.
13. Adjust the value of the horizontal adjust, top margin, horizontal magnification, and vertical magnification settings.
14. Apply the changes.
15. Repeat step 2 through step 14 to make further adjustments.

Flatbed Registration Adjustment

1. From the home screen, navigate to:
Settings > Device > Maintenance > Configuration Menu > Scanner Configuration > Scanner Manual Registration
2. From the Print Quick Test section, press **OK** or touch **Start**.
3. Place the test page on the flatbed, and then select **Flatbed Registration**.
4. From the Copy Quick Test section, press **OK** or touch **Start**.
5. Compare the pages from the print quick and copy quick tests.
6. Adjust the value of the horizontal adjust, top margin, horizontal magnification, and vertical magnification settings.
7. Apply the changes.
8. Repeat step 2 through step 7 to make further adjustments.

Entering The TPS Characterization Data

After installing the new left or right TPS, access the Diagnostics menu to enter the 40-character string for the left or right sensor.

To enter the Diagnostics menu, press * * **3 6**.

For 4.3-inch Control Panels

1. Enter the Diagnostics menu, and then navigate to:
Printer setup > EP setup > Toner patch sensor adjust
2. Touch **Right TPS calibration data** or **Left TPS calibration data**.
3. Enter the 40-character string for the sensor, and then touch **OK**.

Removal Procedures

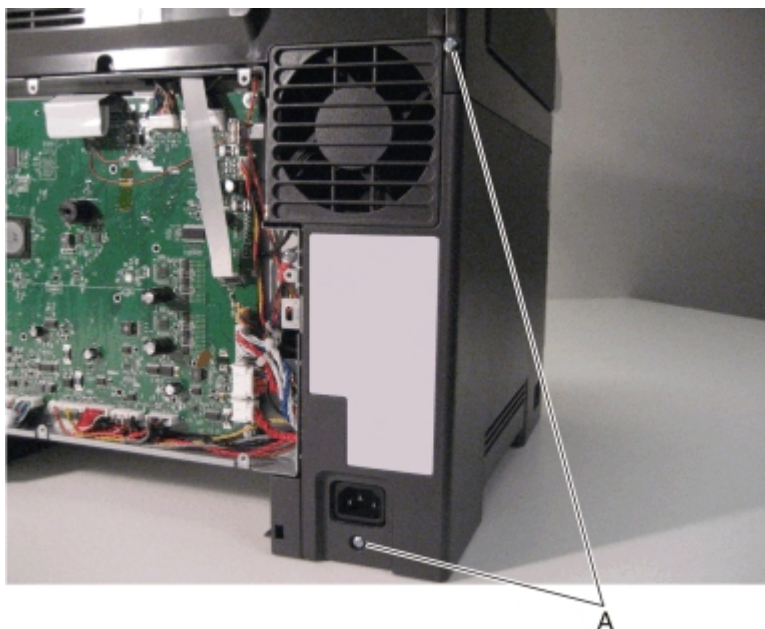
Keep the following tips in mind as you replace parts:

- Some removal procedures require removing cable ties. You must replace cable ties during reassembly to avoid pinching wires, obstructing the paper path, or restricting mechanical movement.
- Remove the toner cartridges, imaging kit, and trays before removing other printer parts. The imaging kit must be carefully set on a clean, smooth, and flat surface. It must also be protected from light while out of the printer.
- 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 with several screws, start all screws before the final tightening.
- For printers that have a soft power switch, make sure to unplug the power cord after powering off.

Left Side Removals

Left Cover Removal

1. Remove the two screws (A).

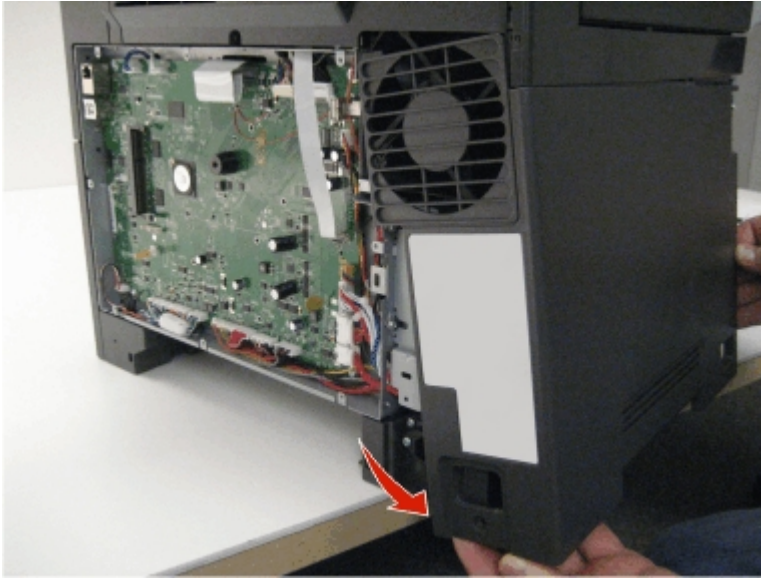



2. Remove the screw (B).




Parts Removal

3. Place the left side of the printer on the edge of the table, and then remove the cover.



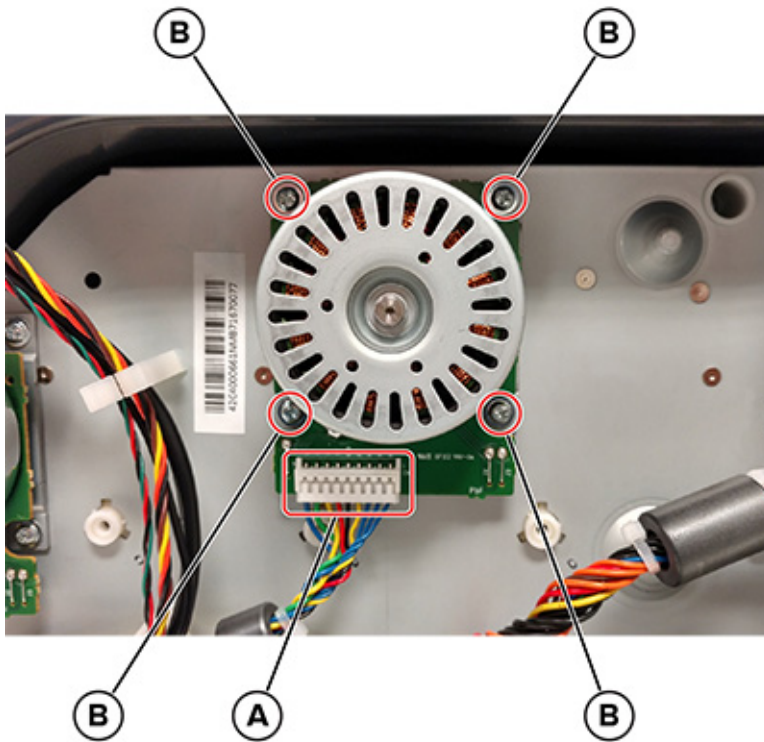
 **Note:** Installation note: When replacing the left cover, flex the cover slightly to engage the tab near the power switch.

Motor (Drive Unit) Removal

 **Note:** The EP motors must be replaced in pairs.

1. Remove the left cover. See [Left cover removal](#).

2. Disconnect the cable (A), remove the four screws (B), and then remove the motor.

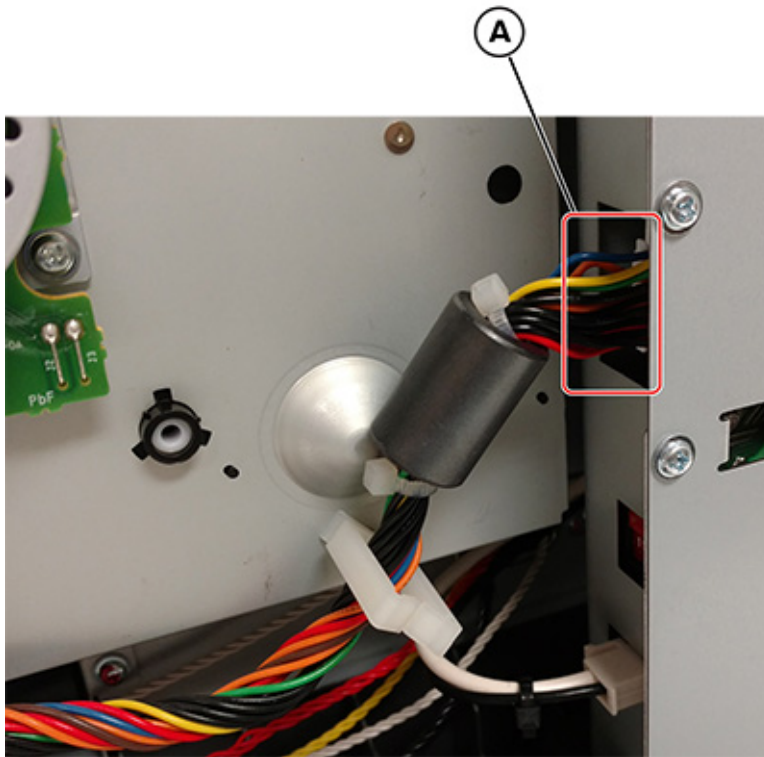


EP Drive Assembly Removal

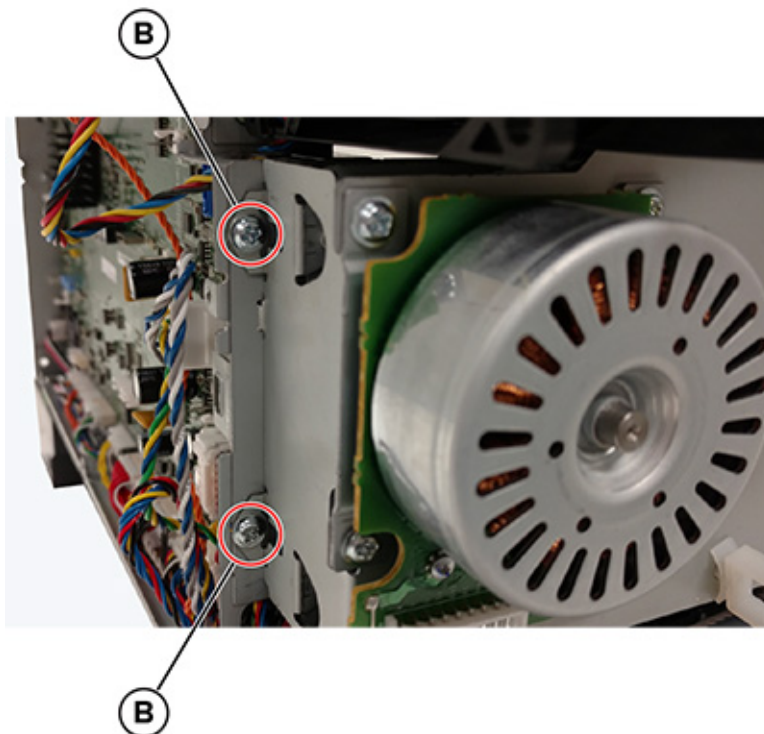
1. Remove the left cover. See [Left cover removal](#).
2. Remove the transfer module. See [Transfer module removal](#).

Parts Removal

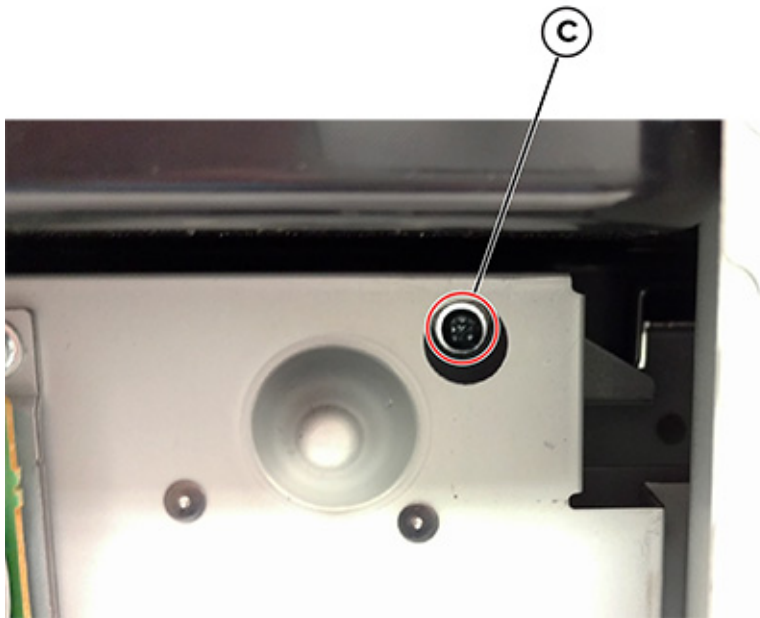
3. Disconnect the cable (A).



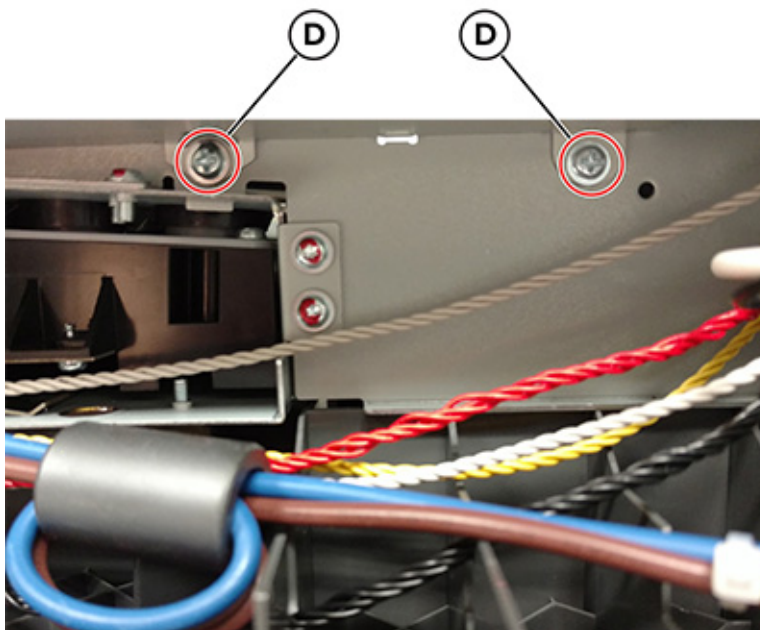
4. Disconnect the two cables from the motor (drive unit).
5. Remove the cables from the clips on the EP drive assembly, and then remove the two screws (B).



6. Remove the screw (C).

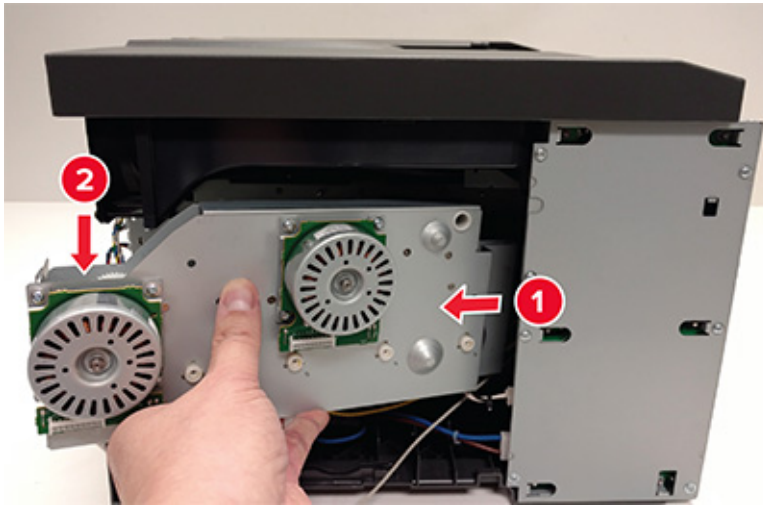


7. Remove the two screws (D).



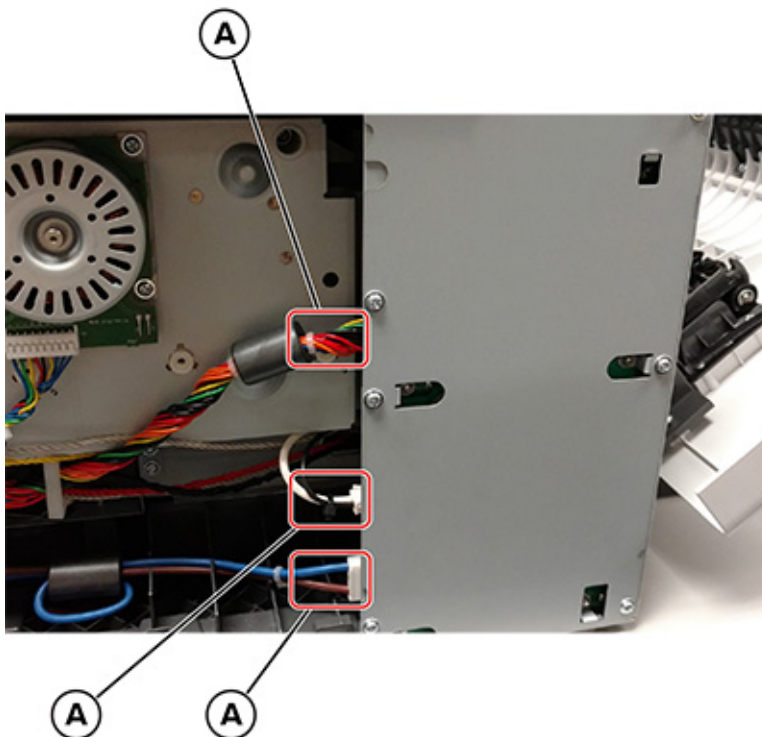
Parts Removal

8. Remove the EP drive assembly.

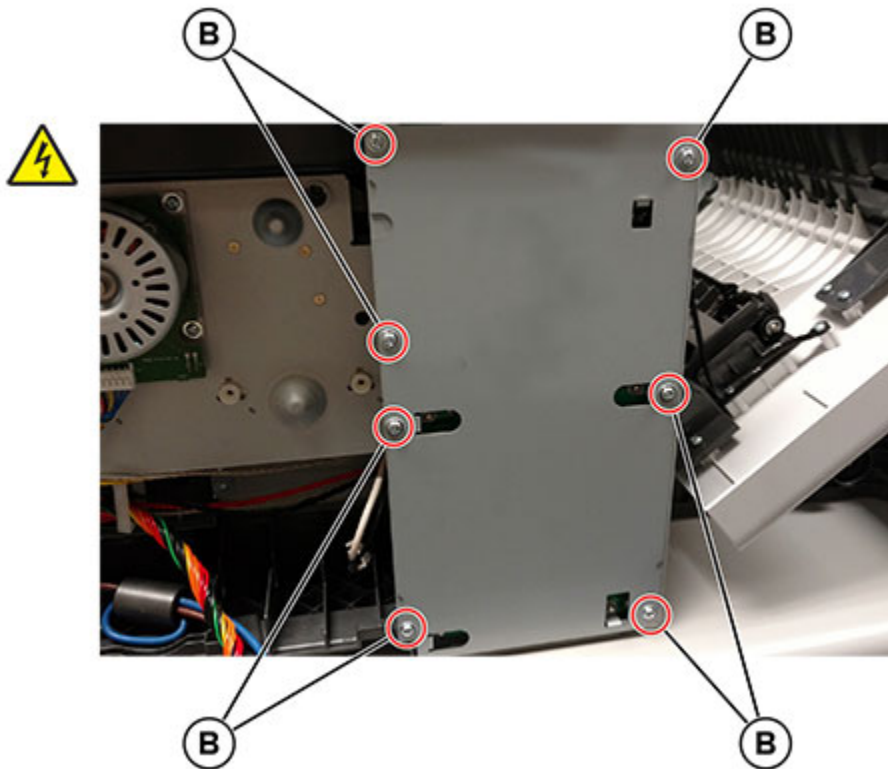



LVPS Removal

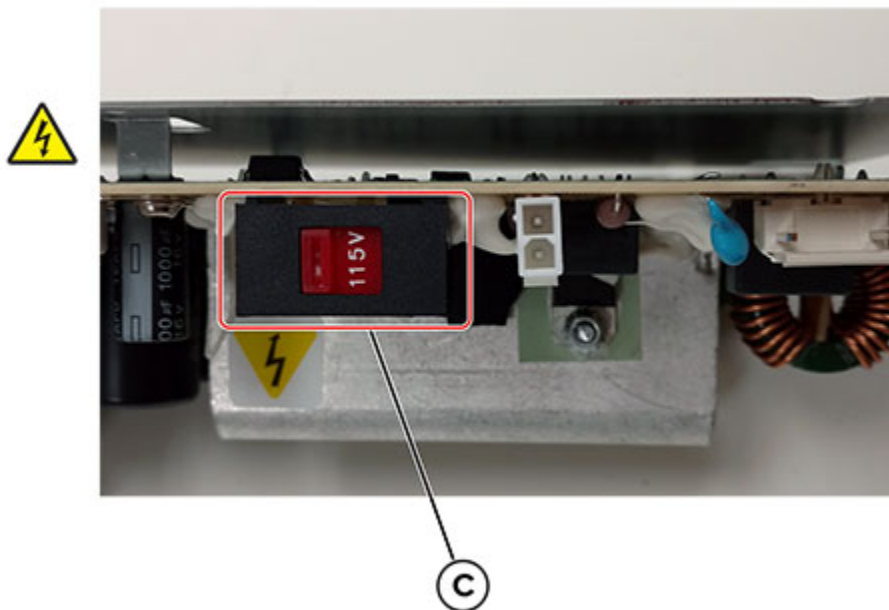
1. Turn off the printer, and then unplug the power cord.
2. Remove the left cover. See [Left cover removal](#).
3. Disconnect the three cables (A).



- Remove the seven screws (B), and then remove the LVPS.

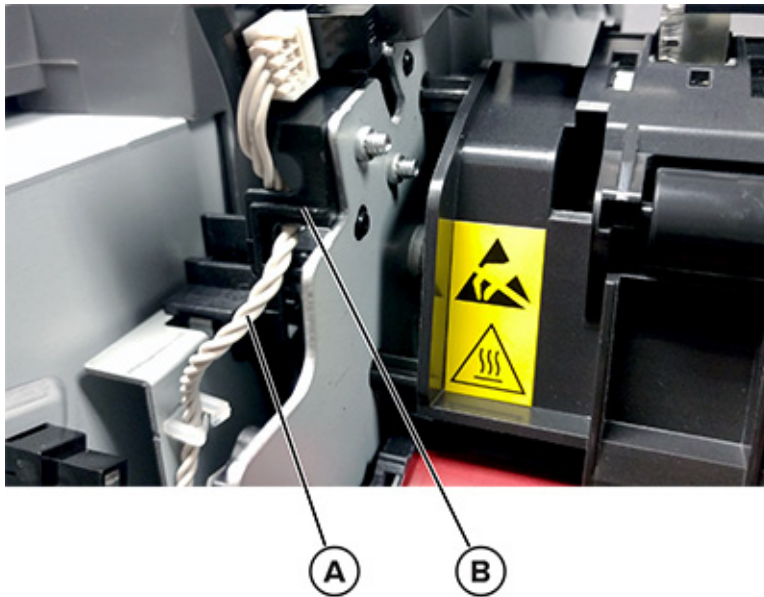


-  **Warning:** Make sure to set the switch (C) to the correct setting for your voltage requirements before installing the LVPS. The switch can be set to either 115V or 230V.

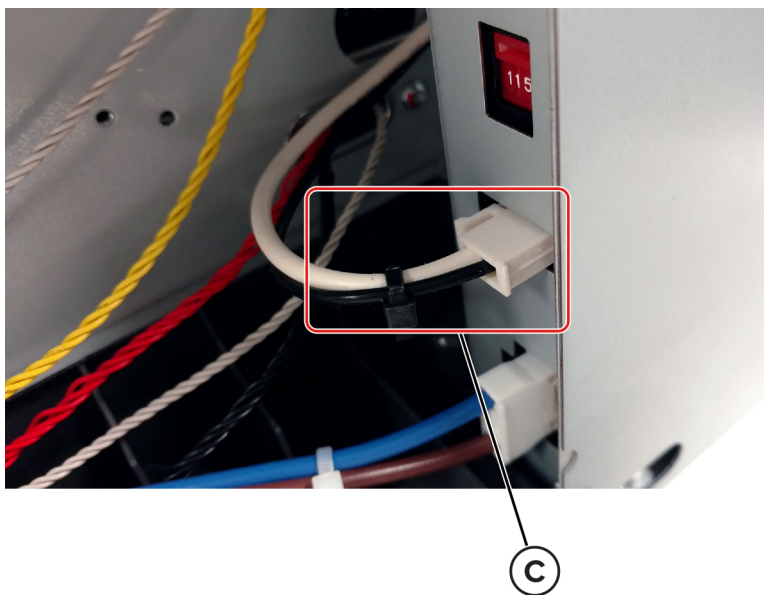


Sensor (Fuser Exit) Removal

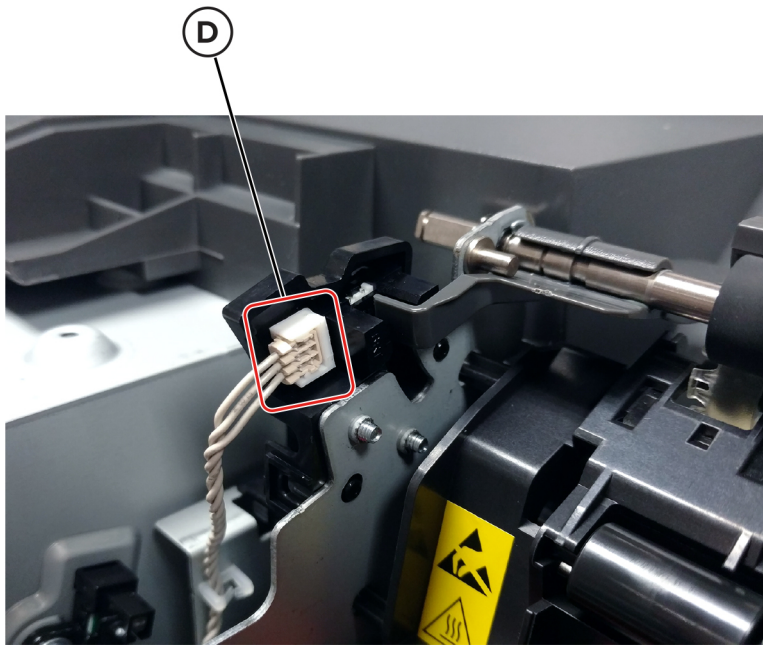
1. Remove the left cover. See [Left cover removal](#).
2. Remove the cable (A) from its retainer (B).



3. Disconnect the cable (C).

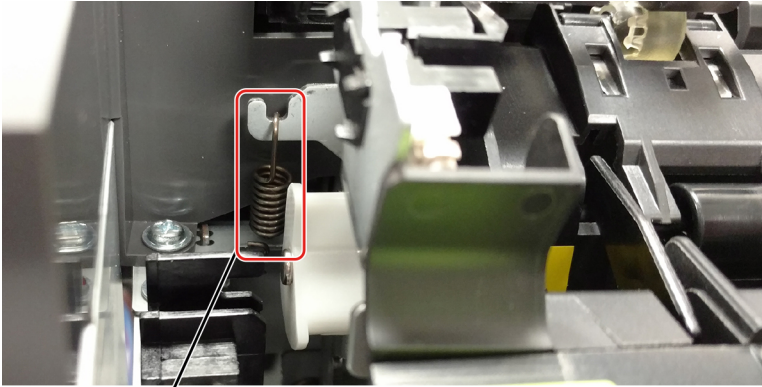


4. Disconnect the cable (D).

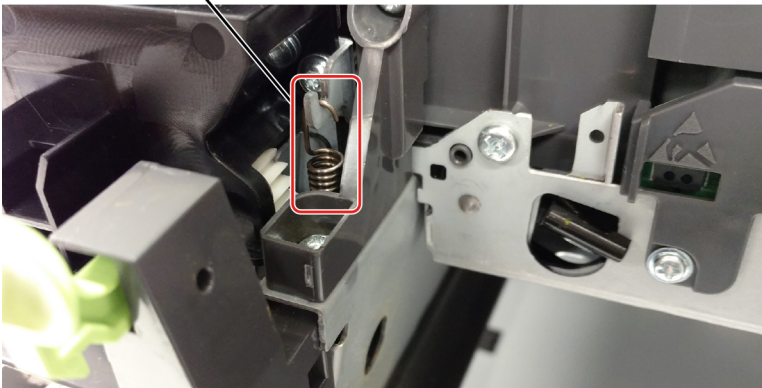


Parts Removal

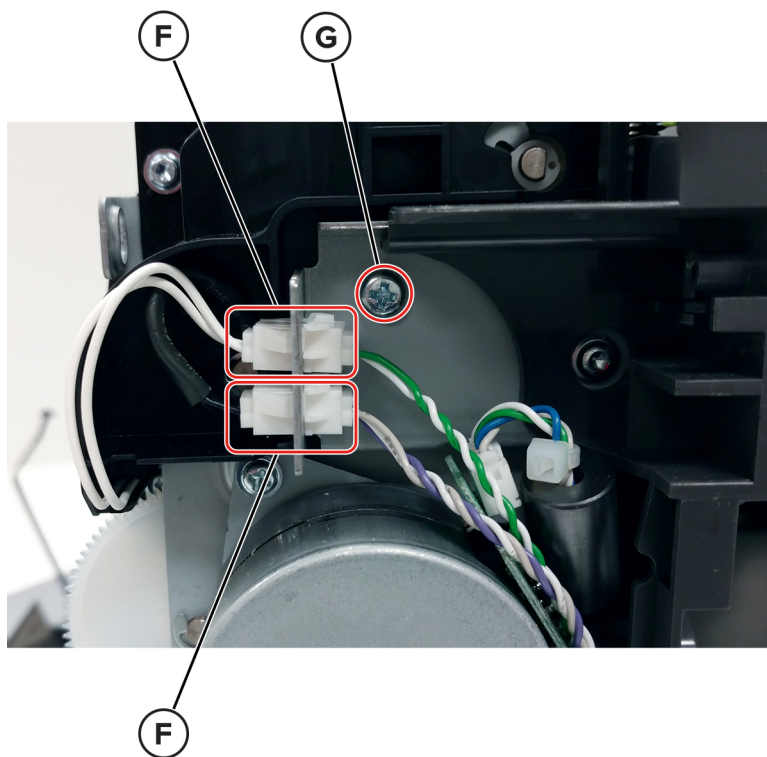
5. Unhook the two springs (E) from both sides of the fuser.



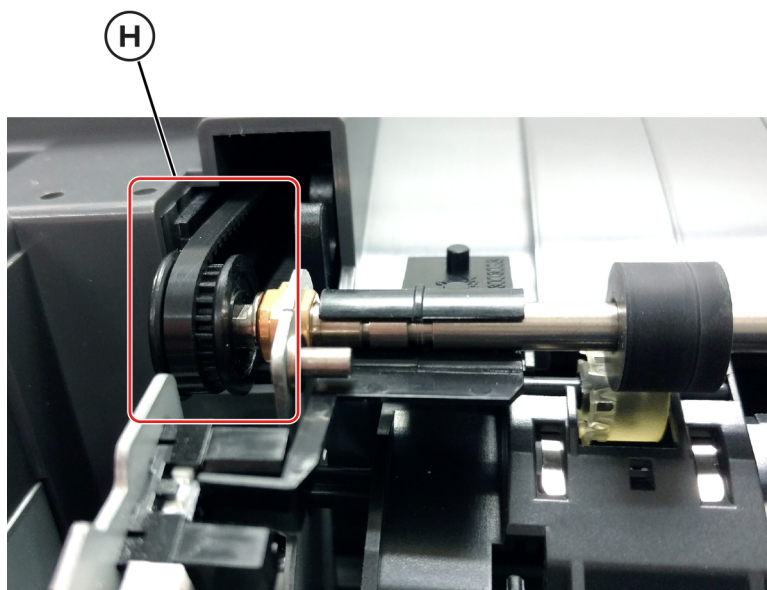
E



6. Disconnect the two thermistor cables (F), and then remove the screw (G).

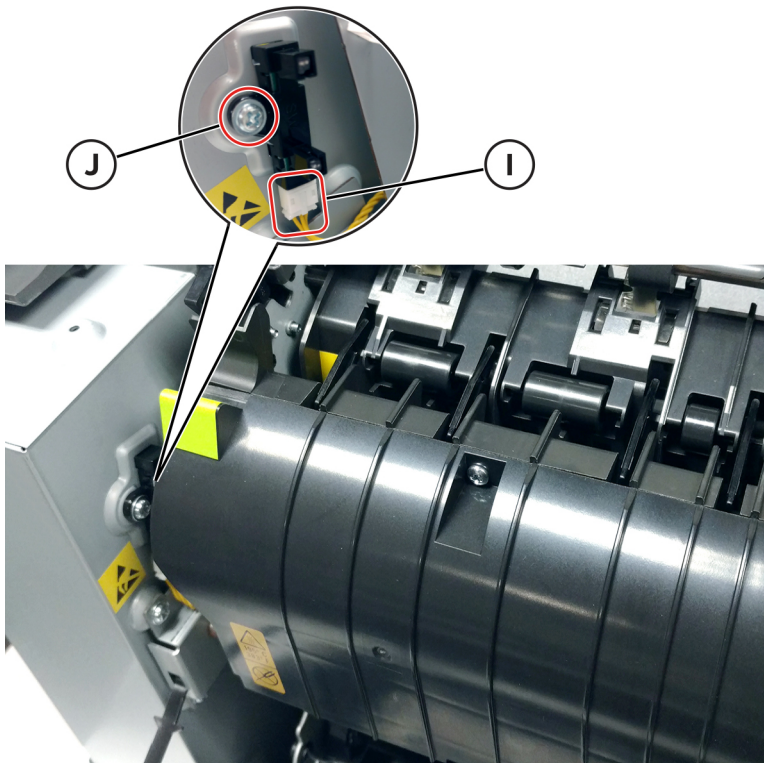


7. If the printer is an MFP, then remove the belt (H) from the pulley.



Parts Removal

8. Rotate the fuser toward the front, disconnect the cable (I), and then remove the screw (J).

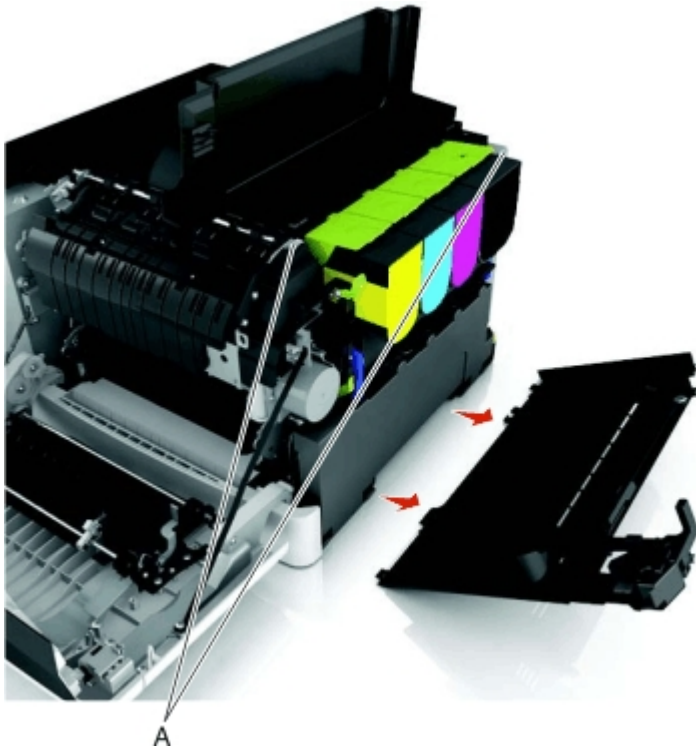


9. Using a flat-head screwdriver, remove the lower end of the sensor, and then gently pull the sensor from the frame.

Right Side Removals

Right Cover Removal

1. Open the toner supply door.
2. Open the front door.
3. Release the two latches (A), and then remove the cover.

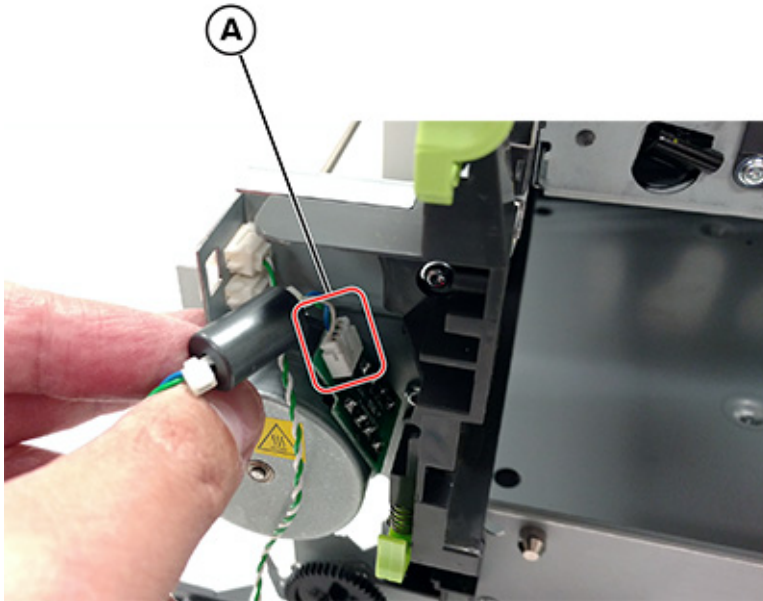


Motor (Fuser Drive) Removal

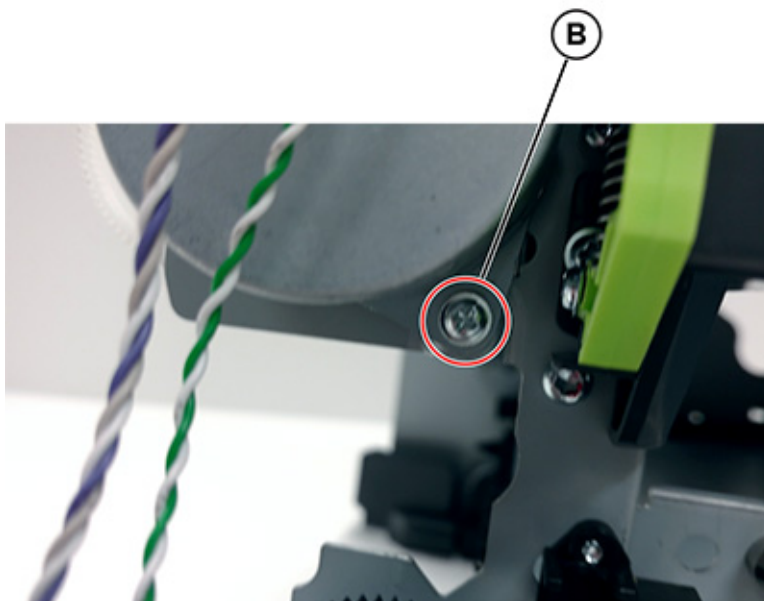
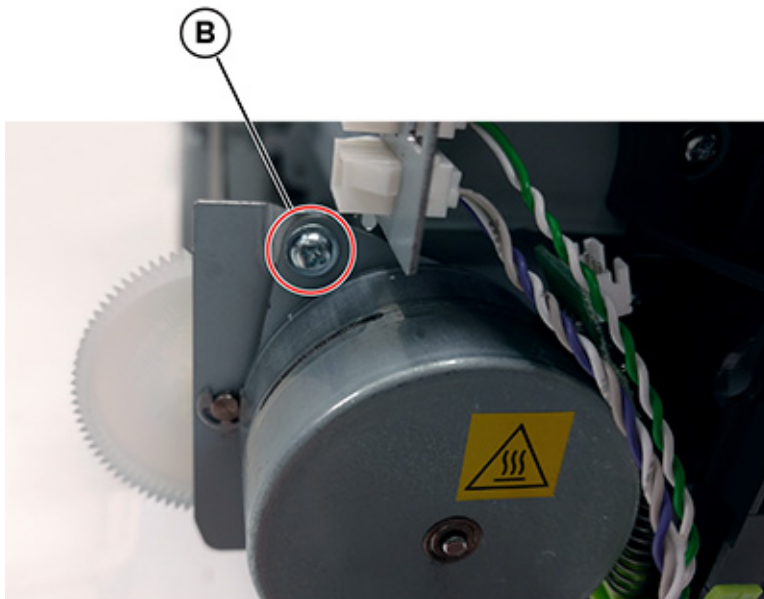
1. Remove the right cover. See [Right cover removal](#).

Parts Removal

2. Disconnect the cable (A).



3. Remove the two screws (B), and then remove the motor.




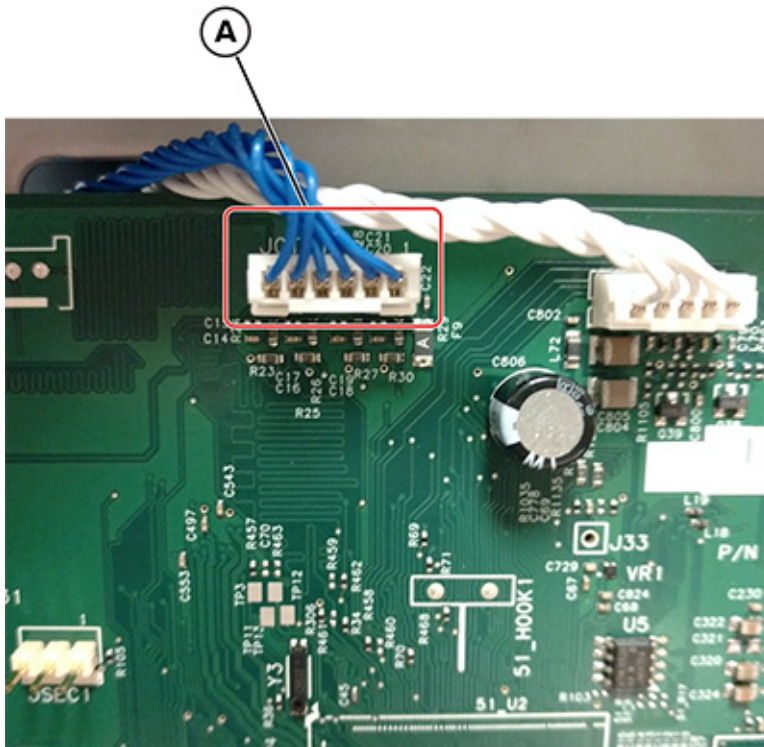
TMC Card Removal

1. Remove the imaging kit. See [Imaging kit removal](#).
2. Remove the rear cover. See [Rear cover removal](#).

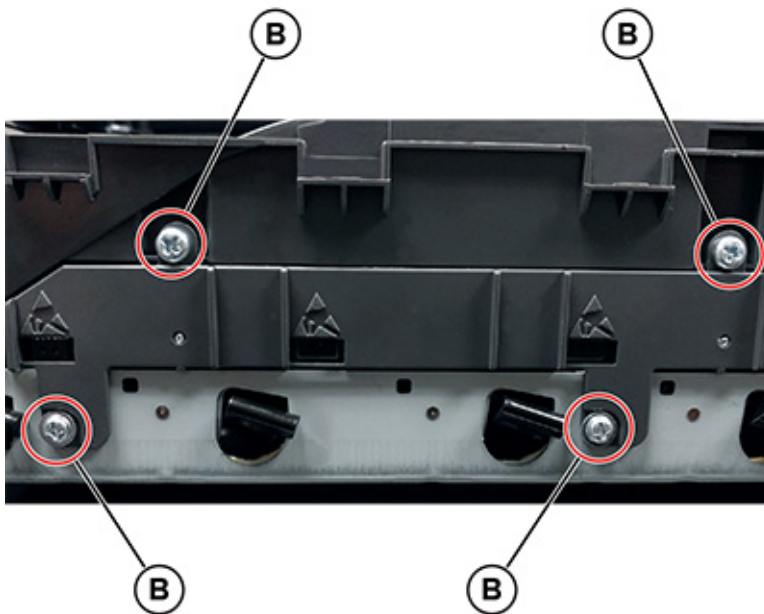
Parts Removal

3. Disconnect the cable (A), and then push the TMC card cable through the frame opening.

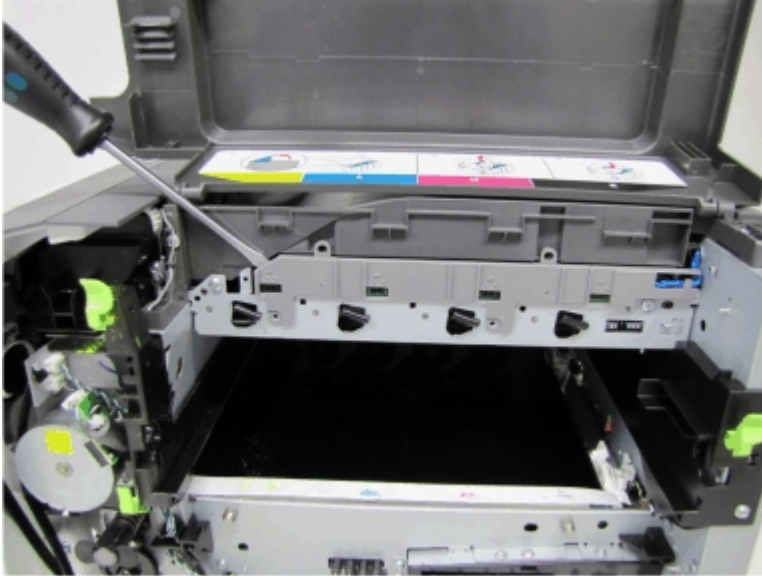
 **Note:** Pay attention to the cable routing.



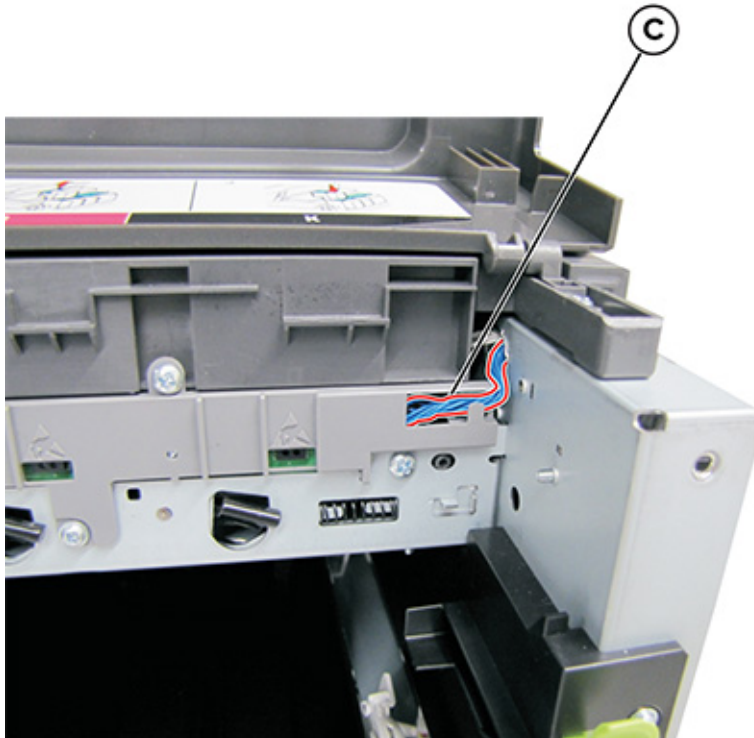
4. Remove the four screws (B).



5. Insert a flat-head screwdriver into the left side of the frame, and then pry the card loose to remove it.


**Installation notes:**

- Make sure to run the cable (C) through the retainer.

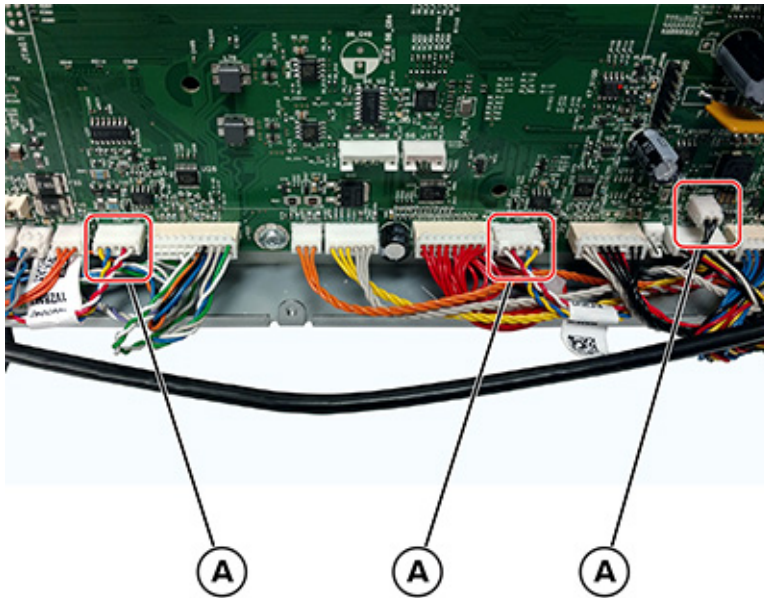


- The TMC card is a tight fit. Insert the bottom edge inside the frame first, and then push down on the top edge to clear the top cover.

Sensors (Toner Patch) Removal

 **Note:** The left and right sensors are separate FRUs.

1. Remove the transfer module. See [Transfer module removal](#).
2. Remove the rear cover. See [Rear cover removal](#).
3. Disconnect the three cables (A) from the controller board.

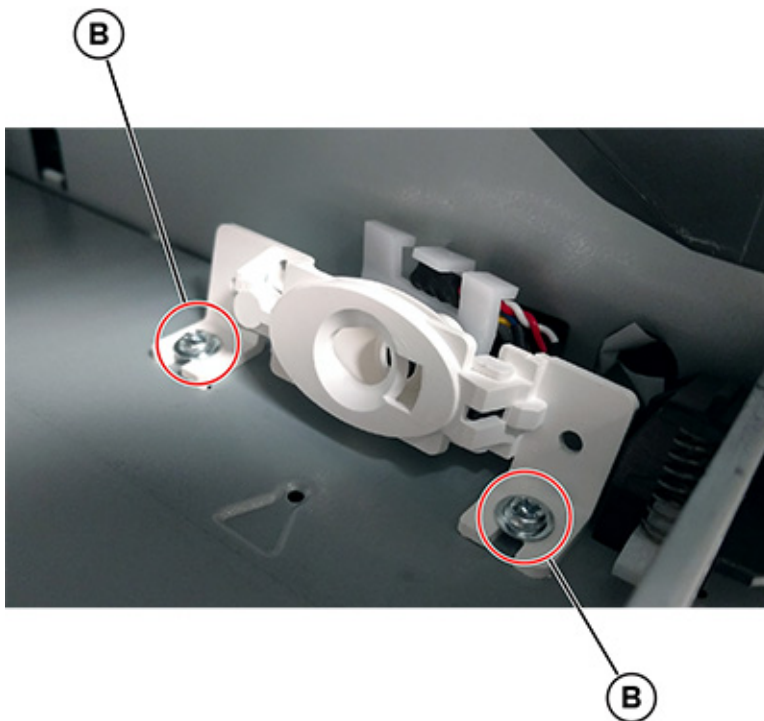
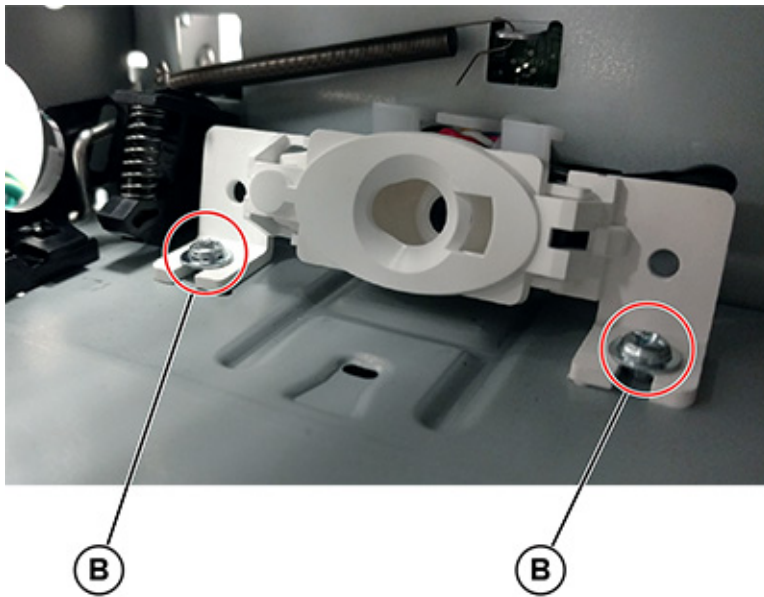


 **Note:**


- If you are removing the sensor (right toner patch), then disconnect the JTPS1 cable on the controller board.
 - If you are removing the sensor (left toner patch), then disconnect the JTPS2 cable on the controller board.
 - Pay attention to the cable routing.
4. Remove the screws at the bottom of the controller board to provide clearance for the cables.

5. Remove the two screws (B) from the left or right sensors.


 **Note:** Only remove the screws from the sensor to be replaced.



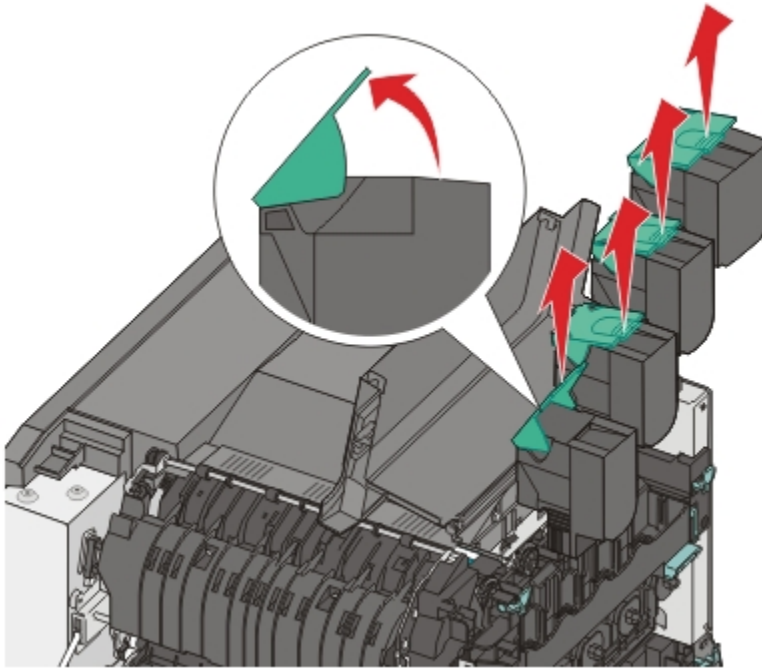
6. Remove the sensor while carefully routing the cables through the rear of the controller board cage.

 **Note:** Installation note: After installing the new sensors, make sure to enter the TPS characterization data. See [Entering the TPS characterization data](#) .


Developer Unit Removal

 **Note:** This is not a FRU.

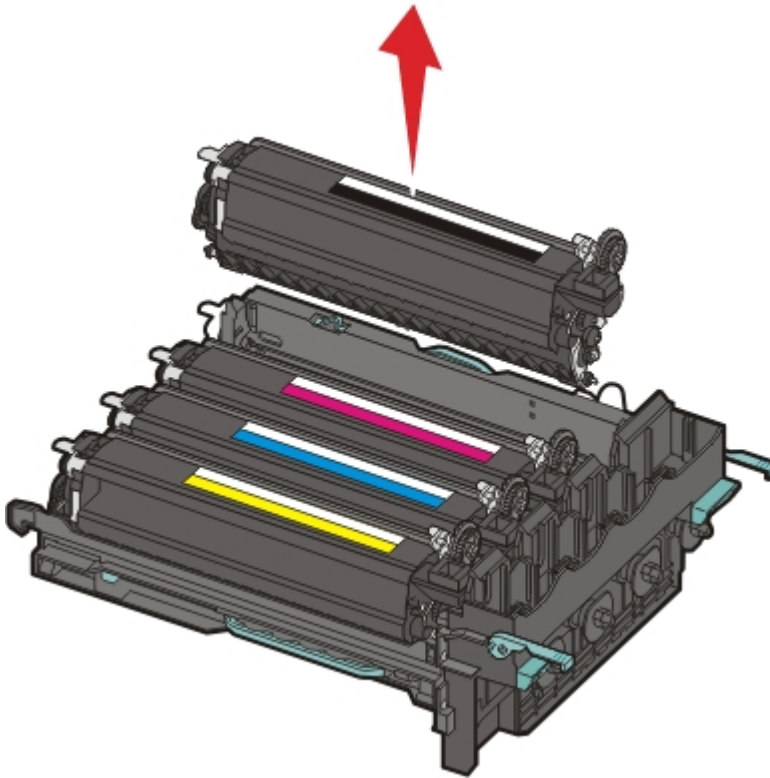
1. Open the toner access door.
2. Remove the toner cartridges.



3. Remove the imaging kit. See [Imaging kit removal](#).

 **Warning:** Do not touch the underside of the imaging kit.

4. Remove the developer unit.

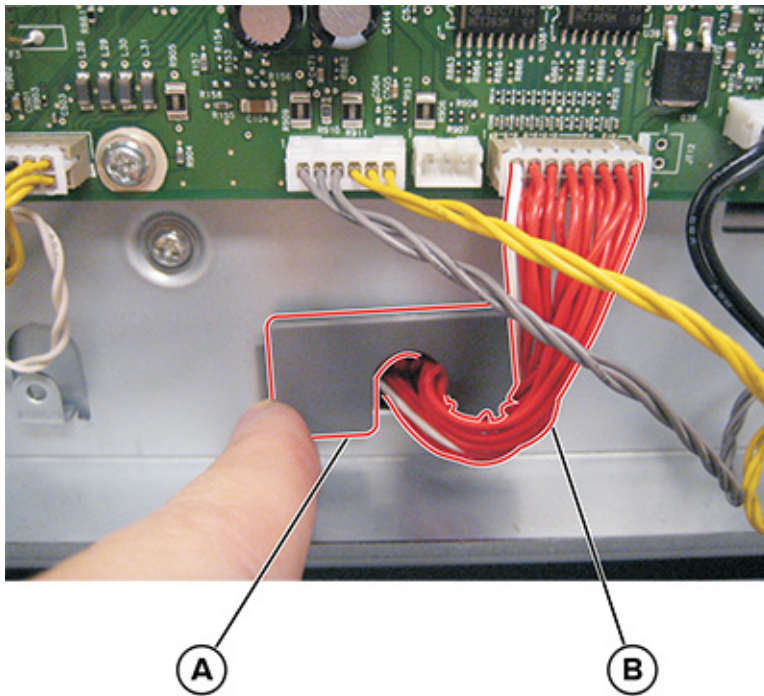


HVPS Removal

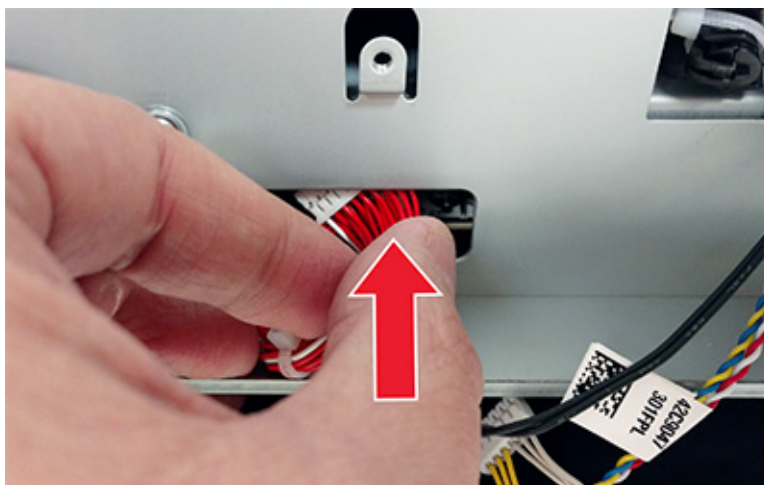
1. Turn off the printer, and then unplug the power cord.
2. Remove the rear cover. See [Rear cover removal](#).

Parts Removal

3. Remove the cable cover (A), and then disconnect the cable (B).

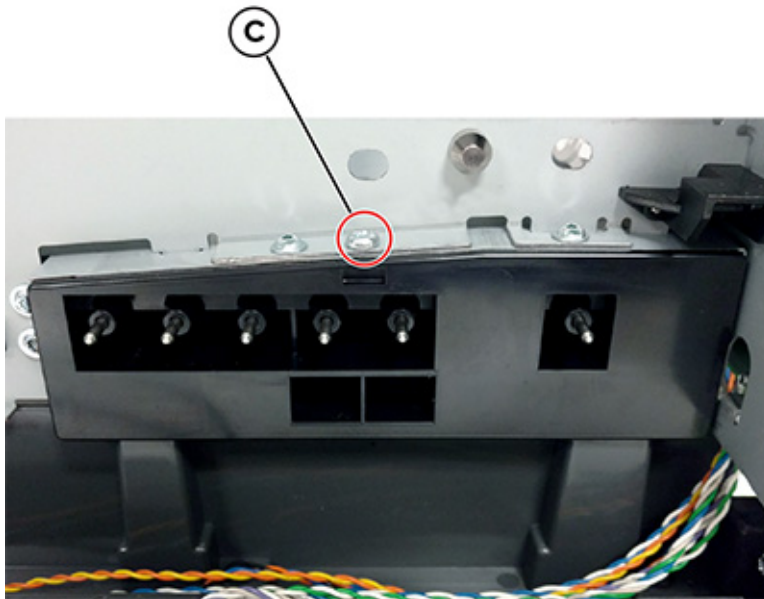


4. Tuck the HVPS cable inside the frame.



5. Remove the transfer module. See [Transfer module removal](#).

6. Remove the screw (C).

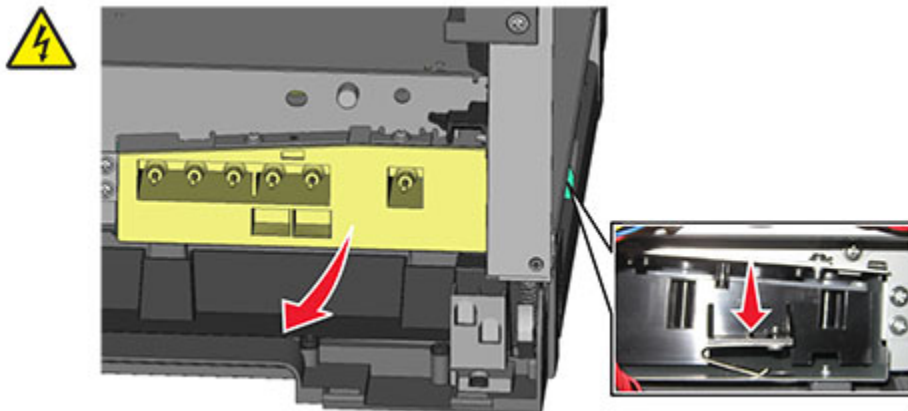


7. Remove the left cover. See [Left cover removal](#).
8. Press down and hold the three transfer module contacts.




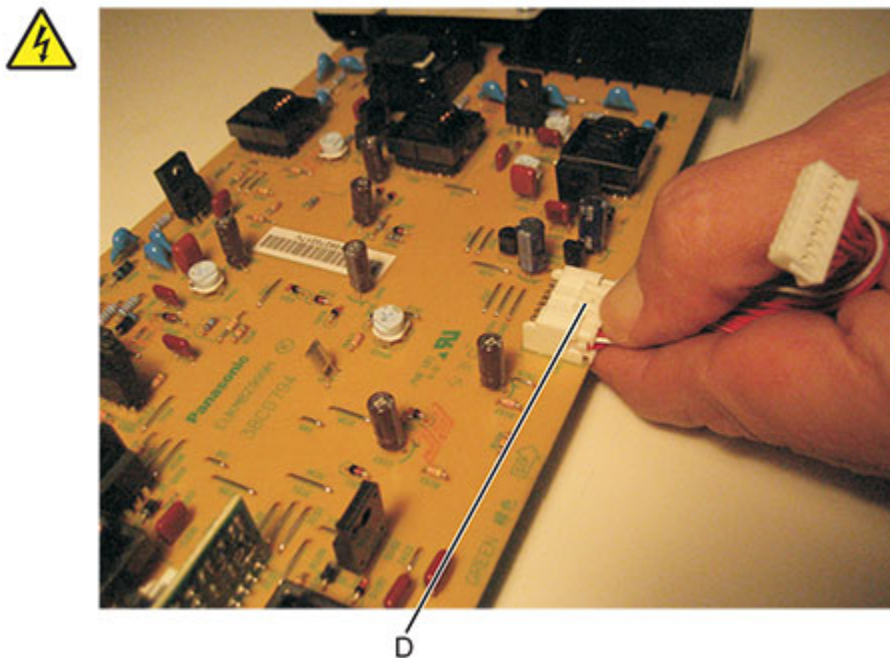
Parts Removal

9. While pressing down on the contacts, press down on the spring mount, and then carefully slide out the HVPS by pulling from one side and pushing from the other.



10. Release the pressure on the spring mount, and then pull and slide out the HVPS to remove.
11. Disconnect the cable (D) from the HVPS board.

 **Warning:** After disconnecting the HVPS cable from the controller board, make sure that the HVPS connector is not damaged.




Installation notes:

- a. To install the new HVPS board, insert the spring end of the HVPS board while compressing the spring.



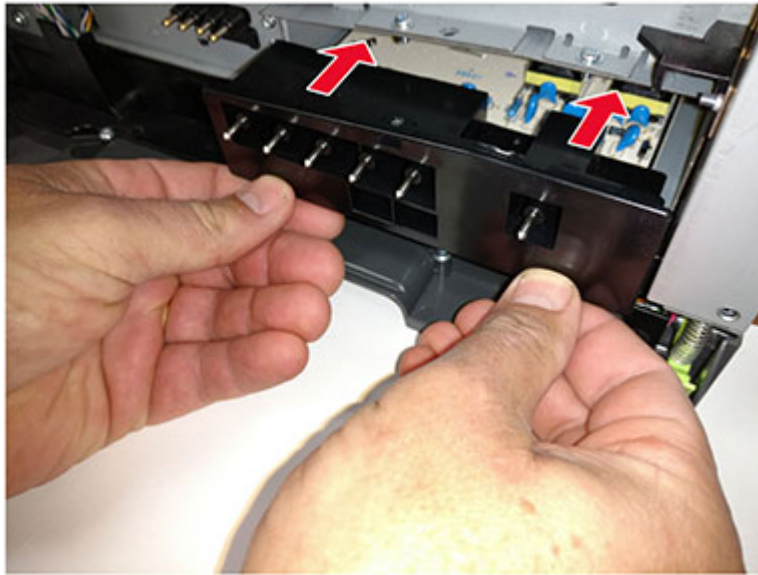
- b. Hold the HVPS on both sides, and then slide it into position.

 **Warning:** Do not flex the HVPS board, and do not let it touch the cage.

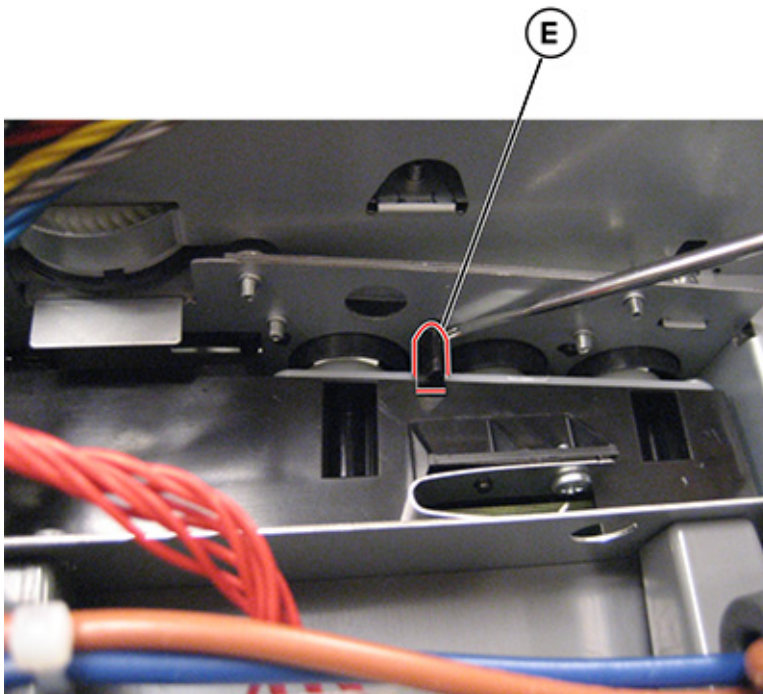


Parts Removal

- c. Hold the HVPS below the contacts, and then slide it in.



- d. Check the position of the card on the left side of the printer. Make sure that the small vertical post (E) is aligned with the hole above it.




- e. Install the new cable.

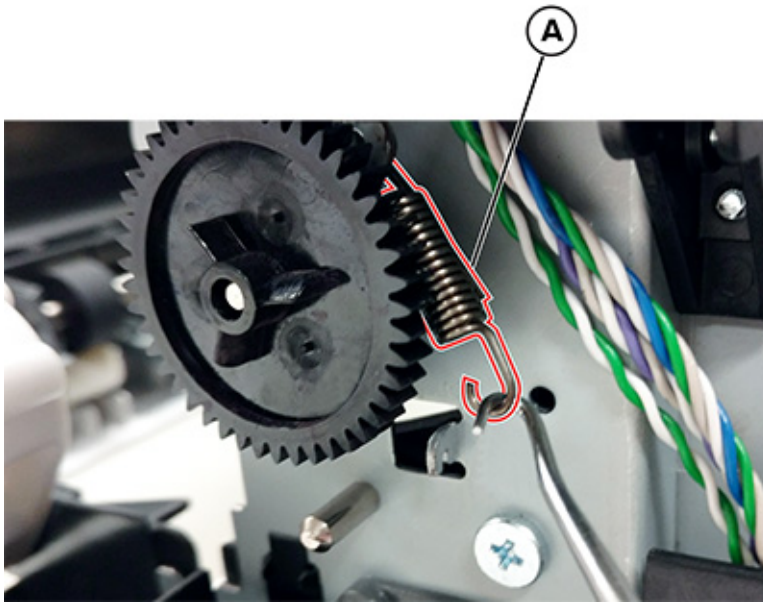


Note: Make sure that the cable connector is locked into position on the HVPS board.

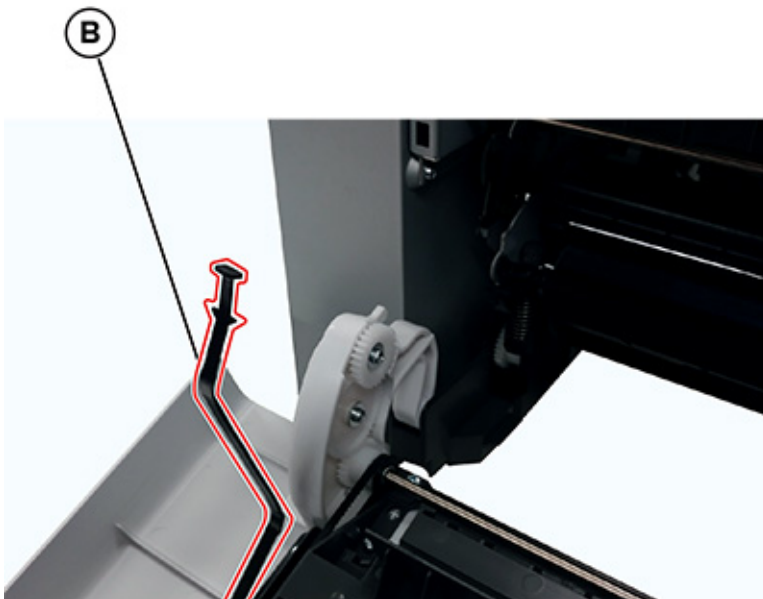
Transfer Module Removal

 **Note:** For a video demonstration, see [Transfer module removal](#).

1. Remove the right cover. See [Right cover removal](#).
2. Remove the waste toner bottle. See [Waste toner bottle removal](#).
3. Remove the imaging kit. See [Imaging kit removal](#).
4. Disconnect the spring (A) on the right side.

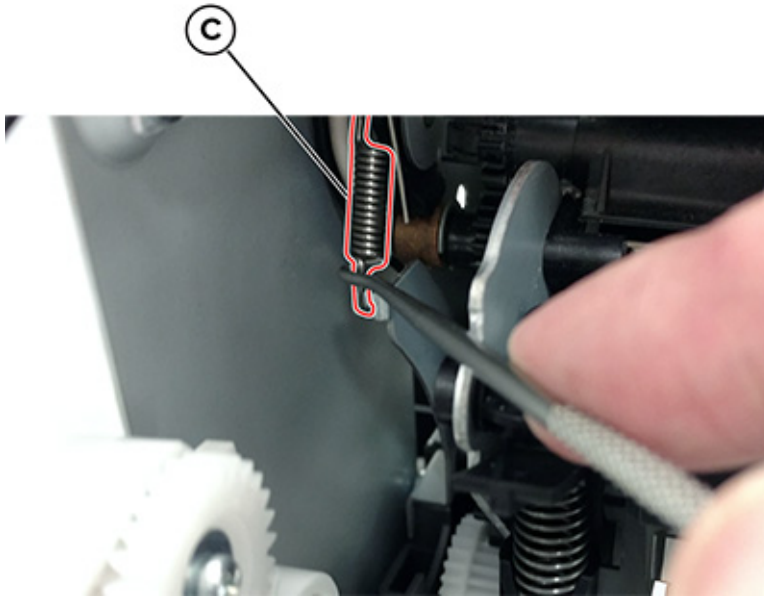


5. Release the left and right door straps (B).

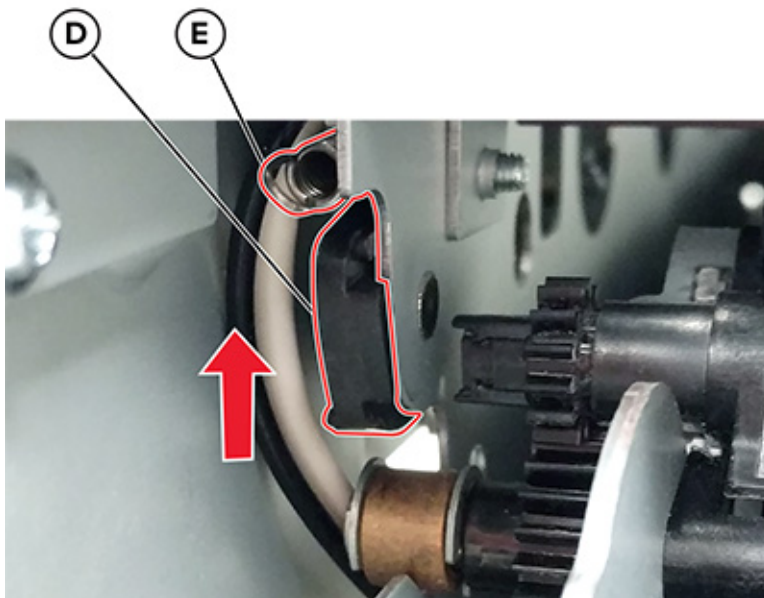


Parts Removal


6. Disconnect the spring (C).

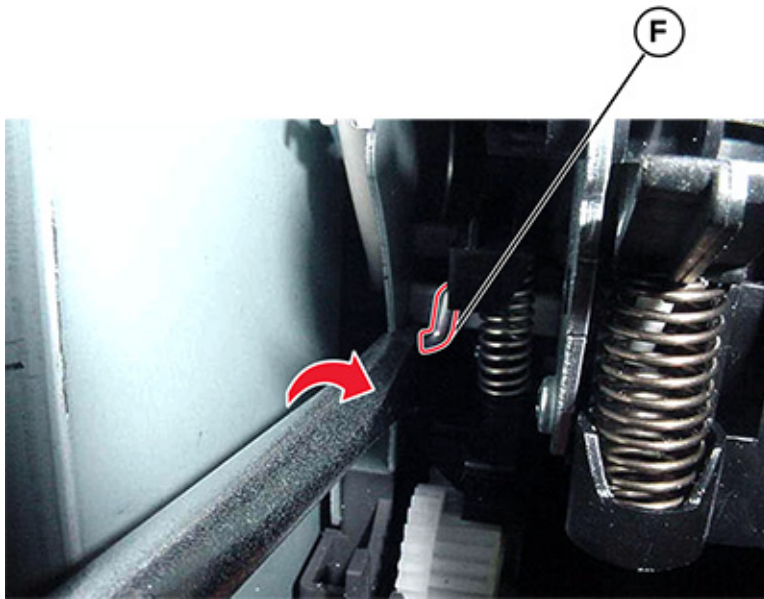


7. Raise the cam (D) and spring (E).



- Place the tip of a flat-head screwdriver in between the release lever (F) and the frame, and then rotate the screwdriver to rotate the release lever and decouple the transfer module while pulling it toward the front.

 **Warning:** Make sure that the lever is in the fully released position before removing the transfer module.



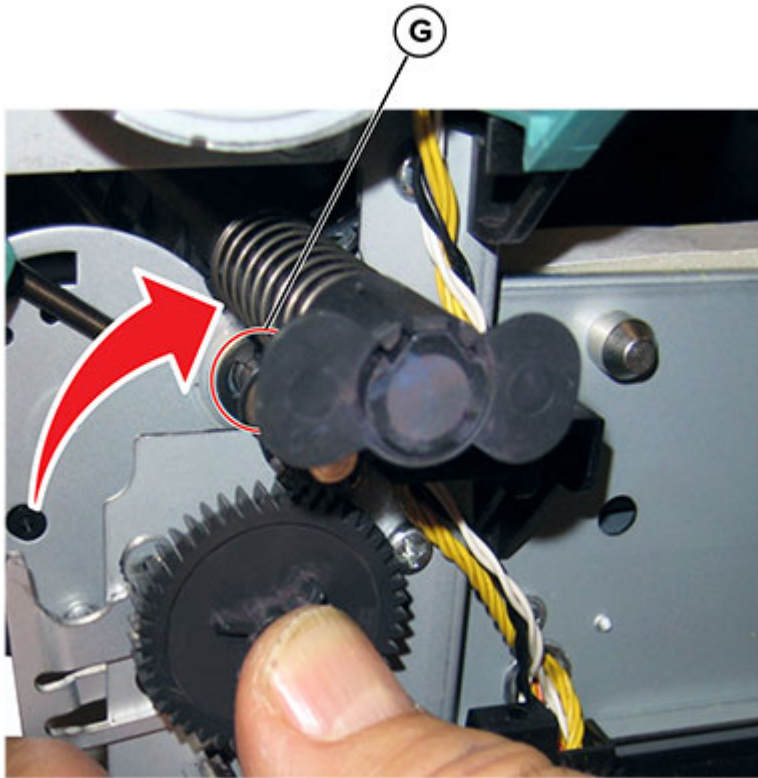
- Hold the release lever as you pull out the transfer module for the first four inches (100mm). A quick and firm pull should overcome the latch at this point.
- Remove the transfer module.



Installation notes:


Parts Removal


1. Do not rotate the release lever again to install the new transfer module. Doing so may cause the incorrect seating of the transfer module. The coupler is rotated out of the way as the transfer module slides in.
2. Rotate the right side spring clamp (G) and left side cam back to their original positions, and then rehook the springs.



3. Make sure to reset the ITM counter after installing the new transfer module.
Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Supply reset > ITM reset

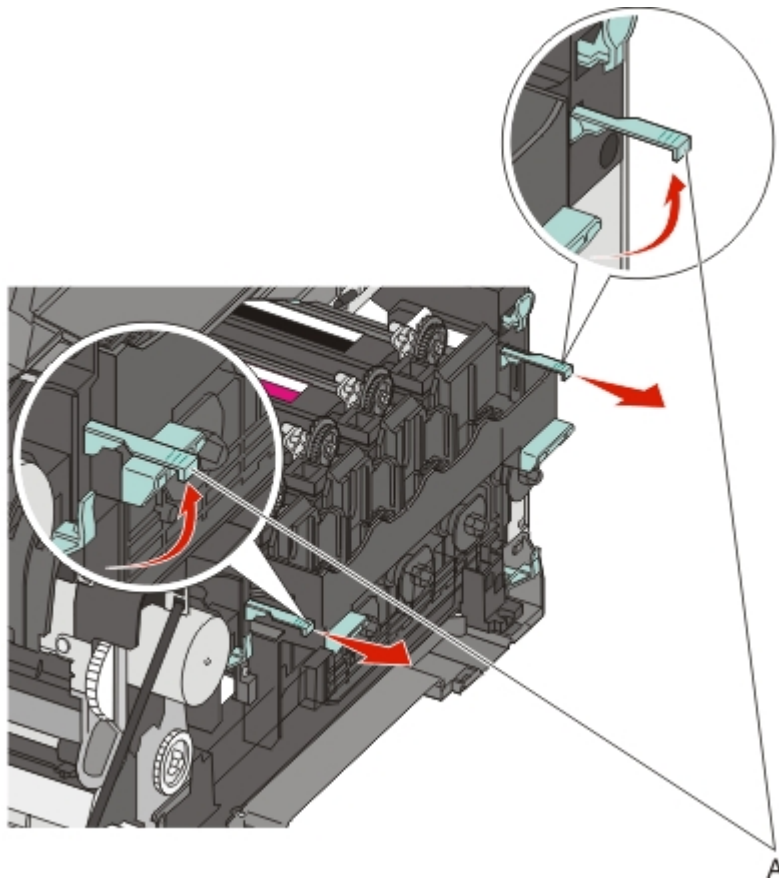
Imaging Kit Removal

 **Note:** This is not a FRU.

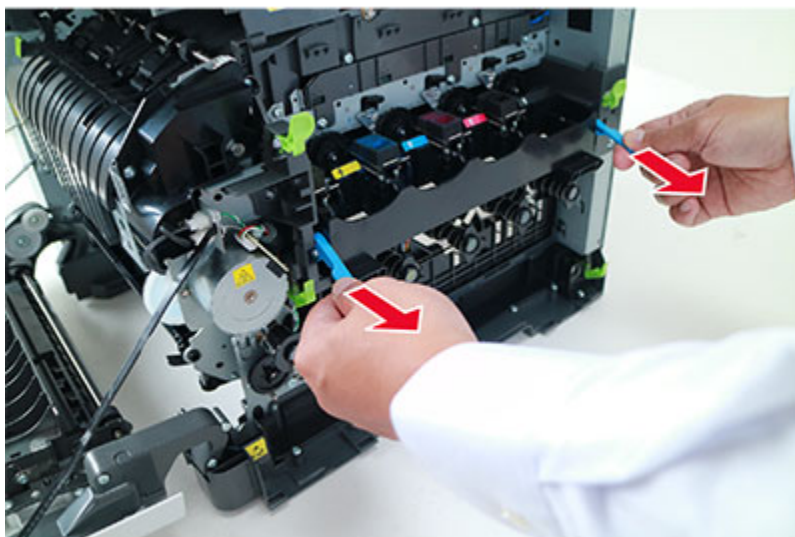
 **Note:** Installation note: The imaging kit contains the photoconductor unit and developer units. When you replace the imaging kit, you are replacing the photoconductor unit and developer units.

1. Remove the waste toner bottle. See [Waste toner bottle removal](#) .
2. Remove the toner cartridges.

3. Lift the two latches (A) to unlock the imaging kit.




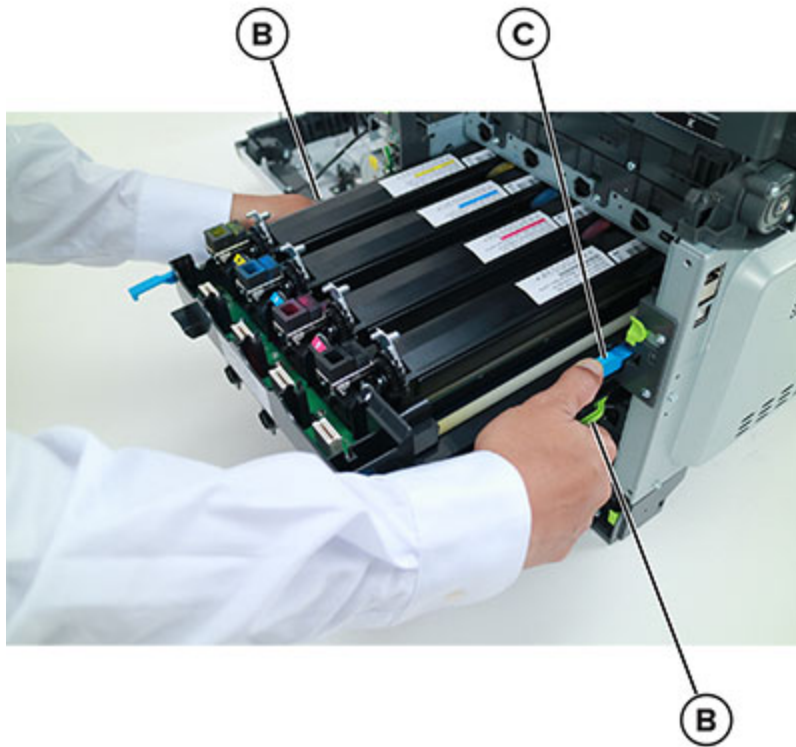
4. Pull the two latches.



Parts Removal


5. Press and hold the two handles (B) and the latch (C), and then pull the imaging kit to remove.

 **Note:** Do not touch the underside of the imaging kit.

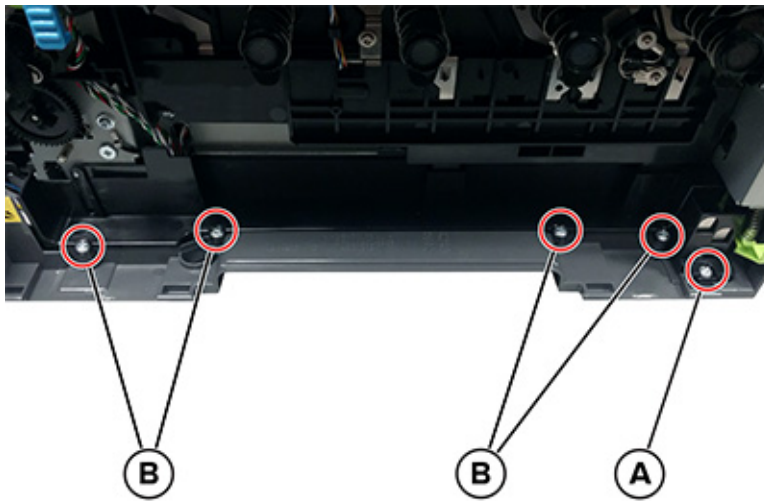


Toner Cartridge Contacts Removal

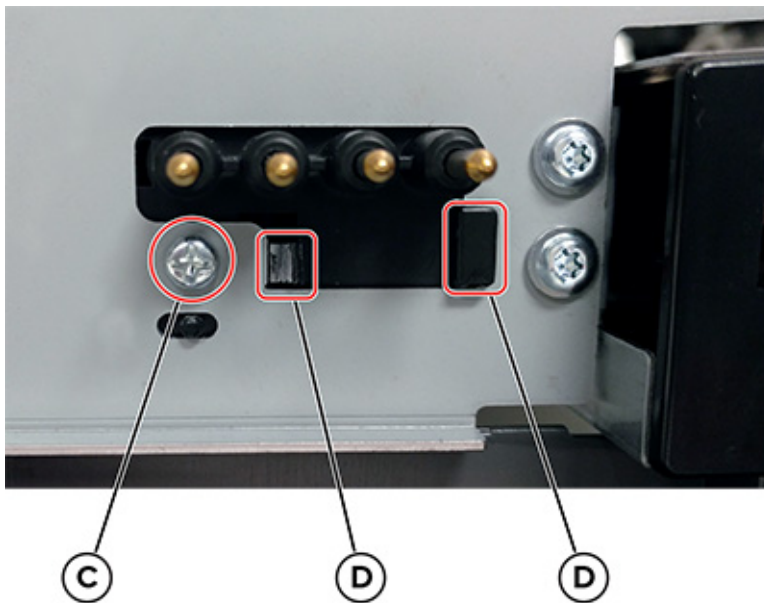
1. Remove the right cover. See [Right cover removal](#).
2. Remove the waste toner bottle. See [Waste toner bottle removal](#).
3. Remove the imaging kit. See [Imaging kit removal](#).
4. Remove the rear cover. See [Rear cover removal](#).
5. Remove the screw (A) to allow access to the cable cover.

 **Note:** Do not remove the waste toner bottle contact block.

6. Remove the four screws (B), and then remove the cable cover.



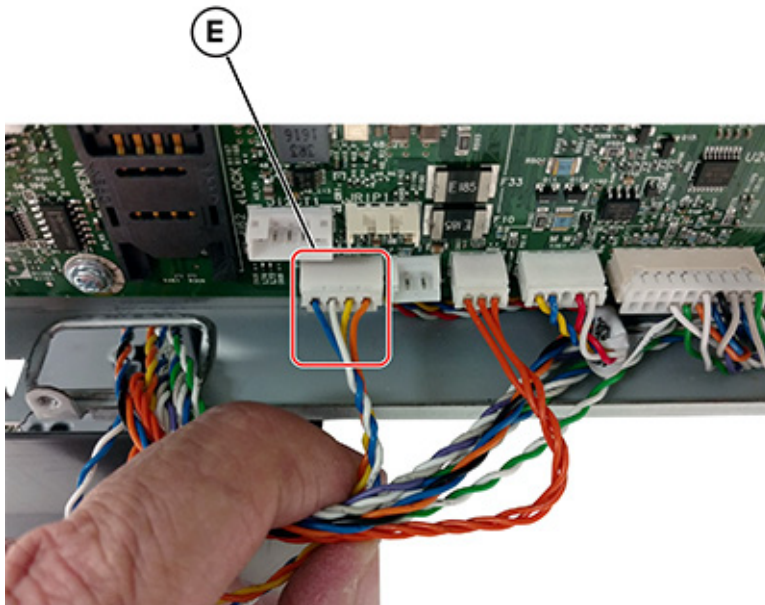
7. Place the printer on its left side.
8. Remove the screw (C), and then release the two tabs (D).




9. Slide the toner cartridge contacts to the left to remove it.


Parts Removal

10. Disconnect the cable (E) from the controller board.



 **Note:** Installation note: If used, pay attention to the assembly of the cable and toroid.

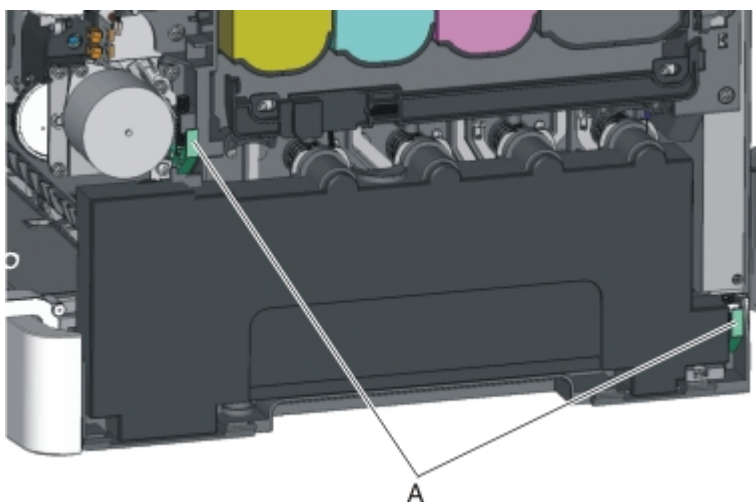
11. Remove the cable from its retainer at the bottom of the printer.
12. Extract the cable through the frame, and then remove the cable with the spring contacts.

 **Note:** If the cable has a toroid, unwrap the cable from the toroid, and then make sure to use the same number of wraps on the new cable.


Waste Toner Bottle Removal

 **Note:** This is not a FRU.

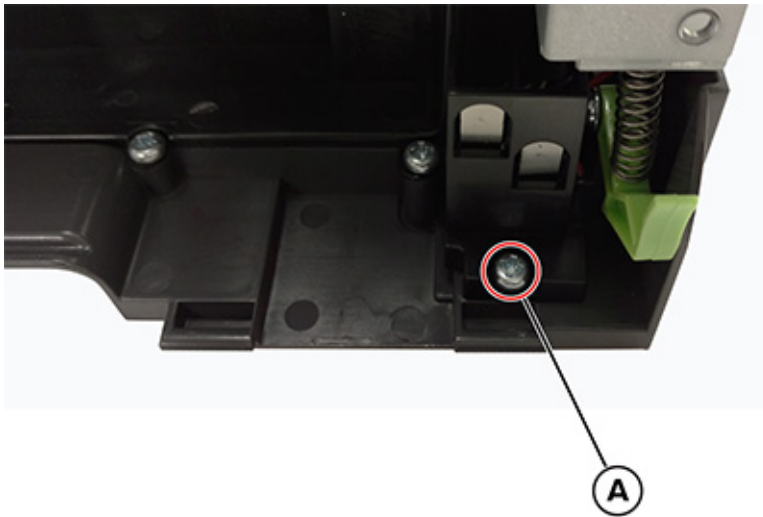
1. Remove the right cover. See [Right cover removal](#).
2. Press the two tabs (A) to release the waste toner bottle.




Waste Toner Bottle Contact Block Removal

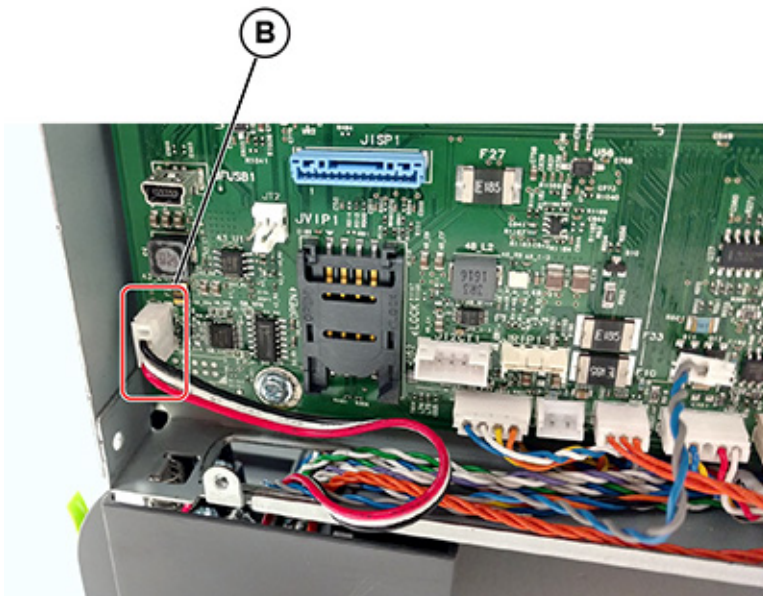
 **Note:** The waste toner bottle is not a FRU.

1. Remove the waste toner bottle. See [Waste toner bottle removal](#).
2. Remove the rear cover. See [Rear cover removal](#).
3. Remove the screw (A).



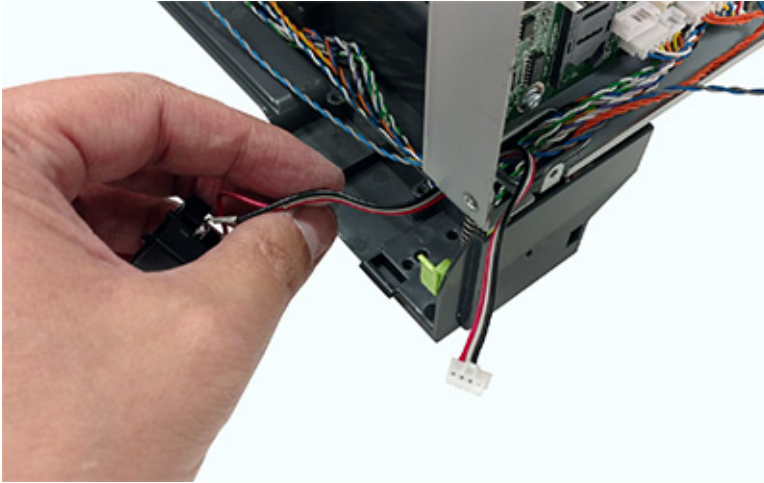
4. Disconnect the cable (B) from the controller board, and then remove the toroid from the cable.

 **Note:** Installation note: Use the toroid on the new waste toner bottle contact block.



Parts Removal

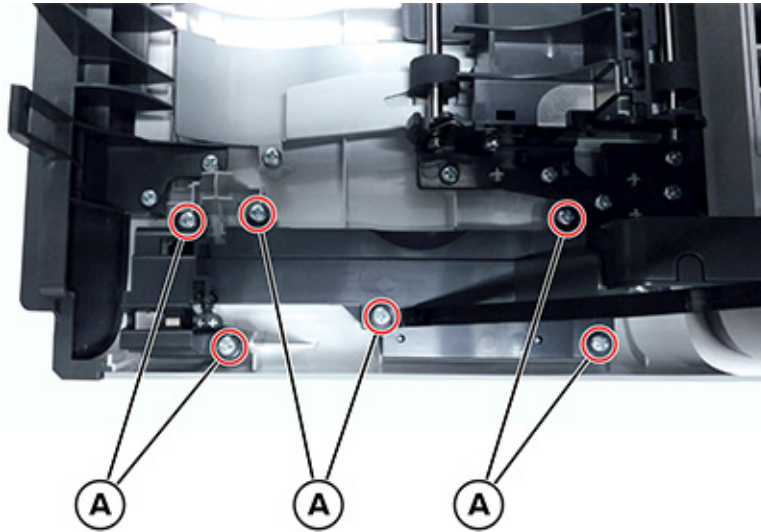
5. Remove the waste toner bottle contact block.



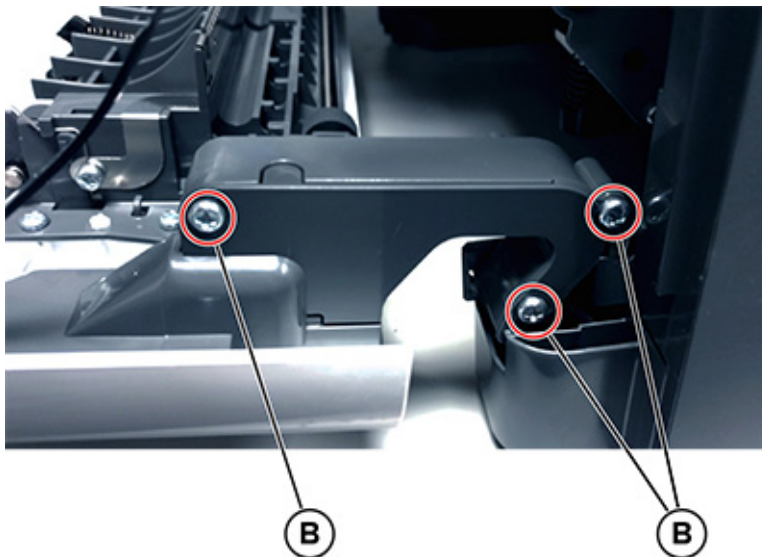
Front Removals

Front Door Removal

1. Remove the tray insert.
2. Open the front door.
3. Remove the six screws (A).

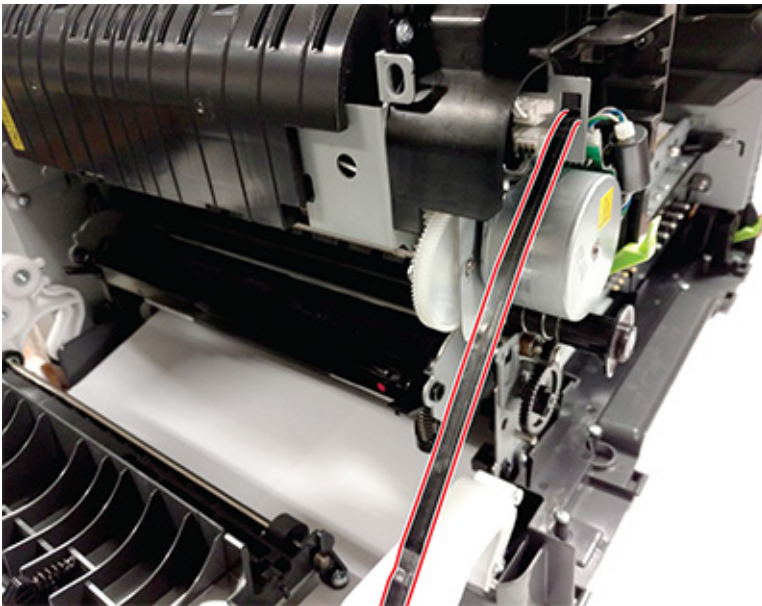
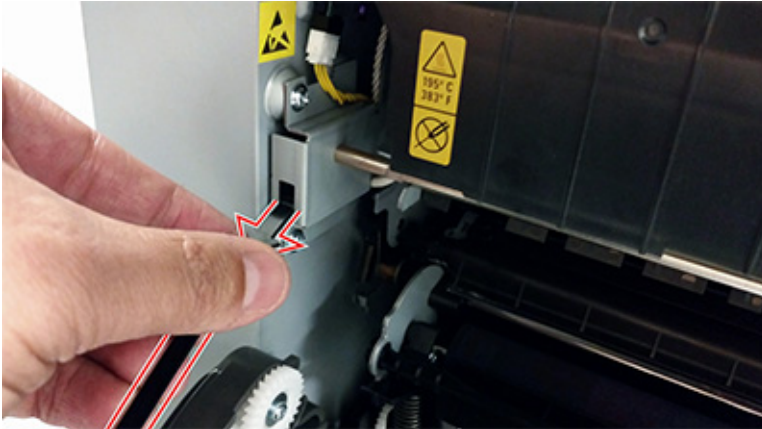


4. Remove the three screws (B).



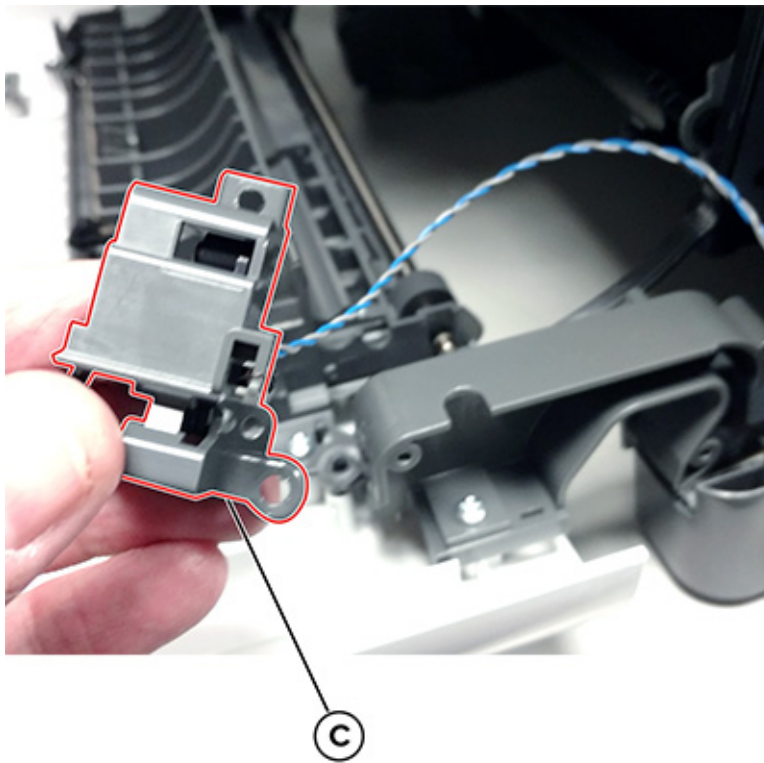
Parts Removal

5. Release the left and right door straps.

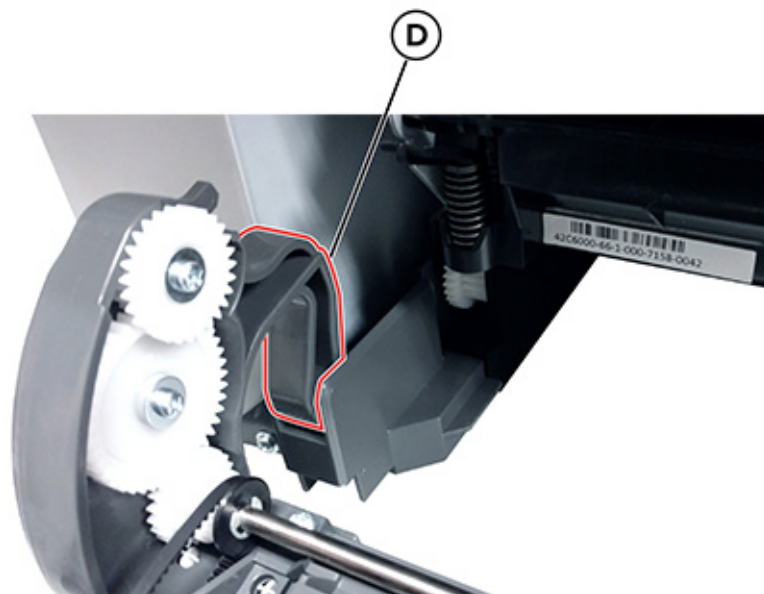


6. Remove the wireless card. See [Wireless card removal](#).

7. Route the interlock switch cover assembly (C) away from the door.



8. Remove the left hinge (D) from the left subframe.



Parts Removal

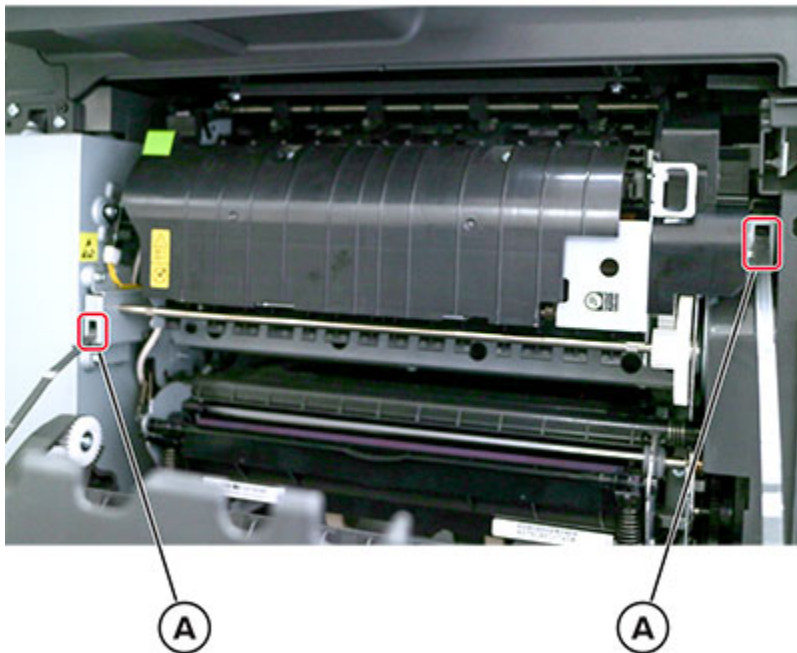
9. Remove the right hinge (E) from the right subframe.



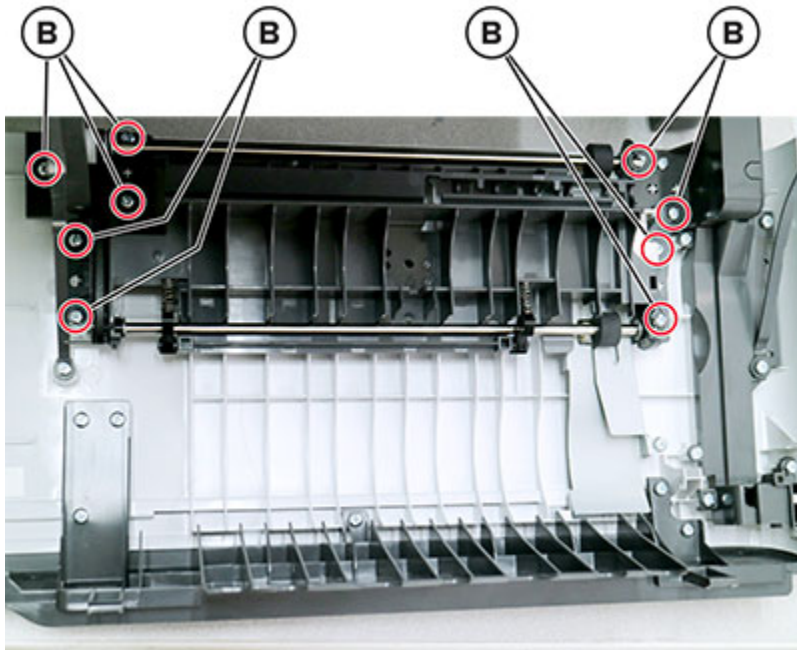
10. Remove the front middle cover. See [Front Middle Cover Removal](#).

Front Door Inner Deflector Removal

1. Open the front door.
2. Release the two door straps (A) from the frame.

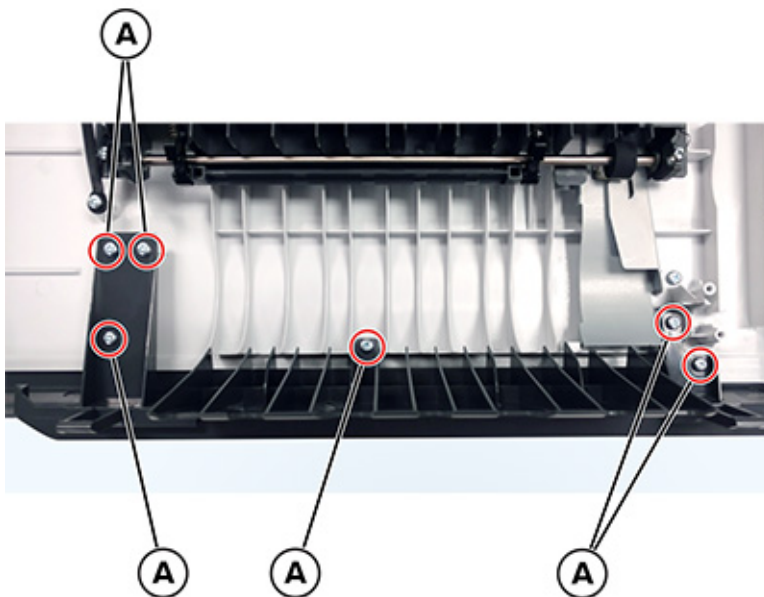


3. Remove the nine screws (B), and then remove the deflector.



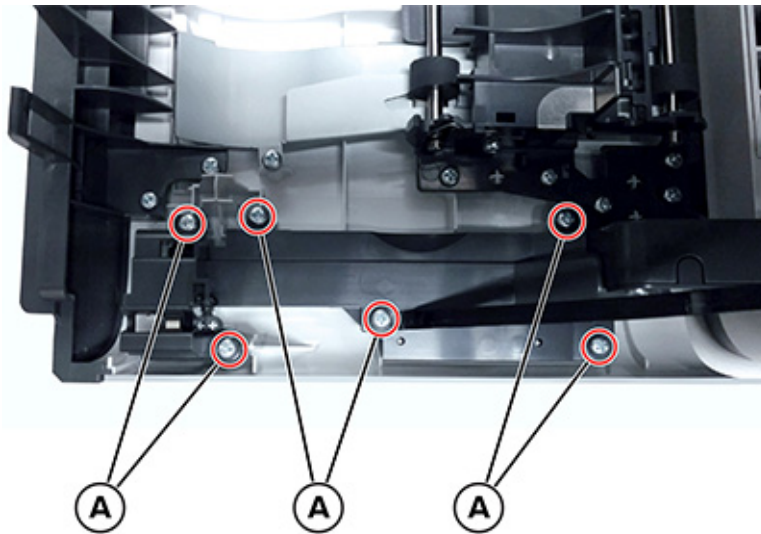
Front Middle Cover Removal

1. Open the front door.
2. Remove the six screws (A), and then remove the cover.

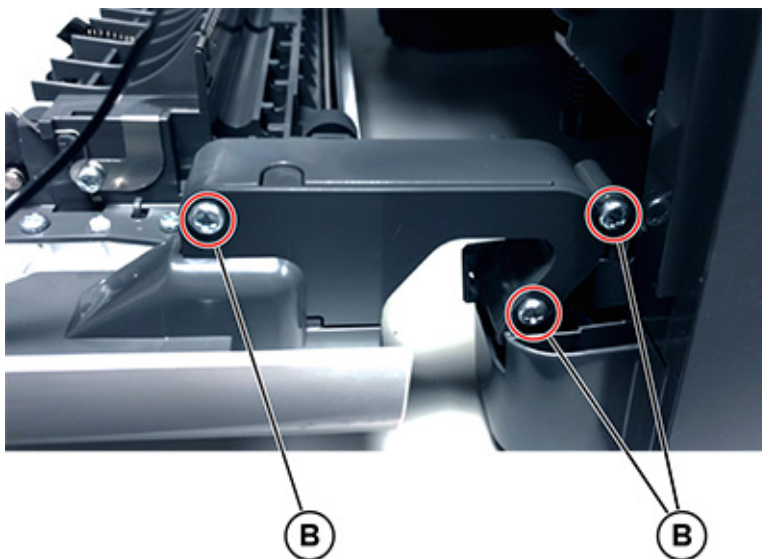


Interlock Switch Cover Assembly Removal

1. Remove the tray insert.
2. Open the front door.
3. Remove the six screws (A).

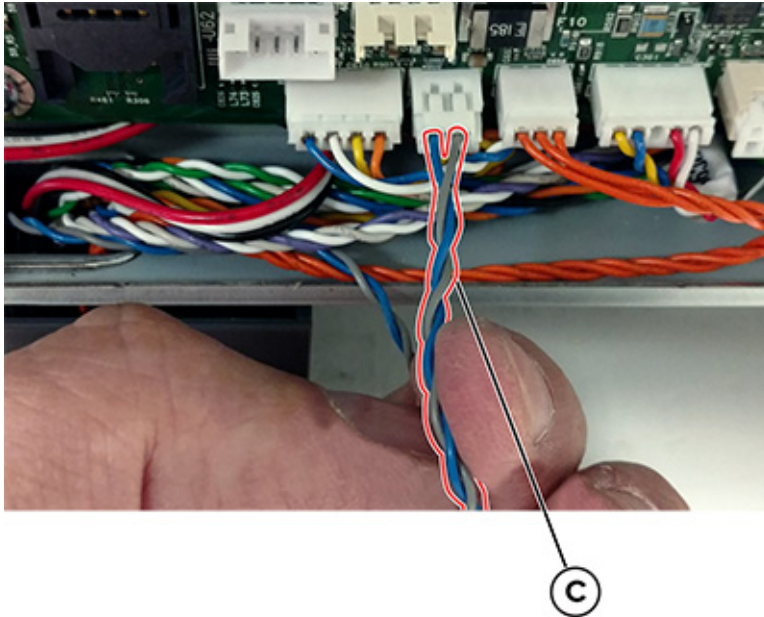


4. Remove the three screws (B).



5. Remove the right cover. See [Right cover removal](#).
6. Remove the waste toner bottle. See [Waste toner bottle removal](#).
7. Remove the rear cover. See [Rear cover removal](#).
8. Remove the waste toner bottle contact block. See [Waste toner bottle contact block removal](#).
9. Remove the cable cover.

10. Disconnect the cable (C).



11. Route the interlock switch cover assembly out of the frame.

4.3-inch Control Panel Badge Cover Removal

Remove the badge cover from the control panel bezel.



4.3-inch Control Panel Bezel Removal


1. Remove the badge cover. See .

Parts Removal

2. Remove the bezel (A) from the control panel base cover.

 **Warning:** Do not damage the tabs under the bezel.

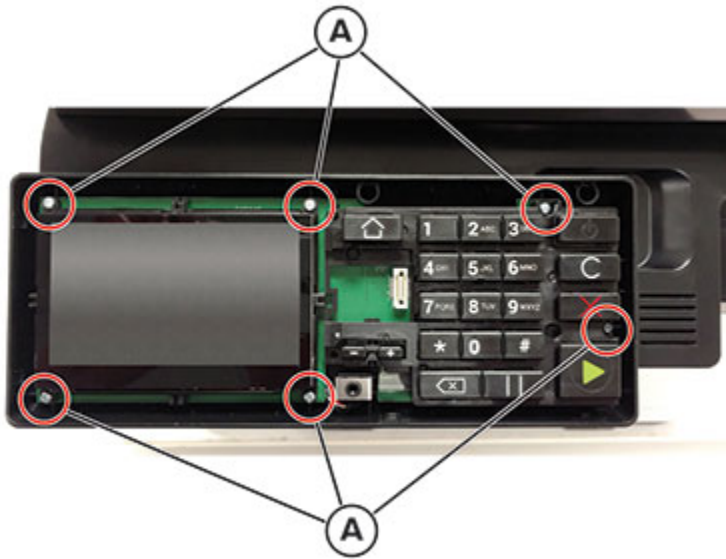


 **Note:** Installation note: Before installing the new bezel, make sure that the control panel display is properly seated in the tabs (B).

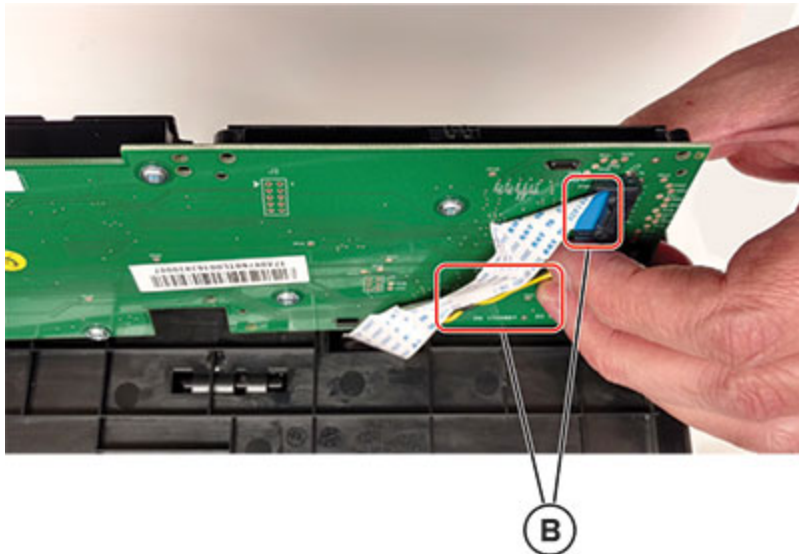


4.3-inch Control Panel Removal

1. Remove the control panel bezel. See [4.3-inch Control Panel Bezel Removal](#).
2. Remove the six screws (A).



3. Disconnect the two cables (B) from the control panel.

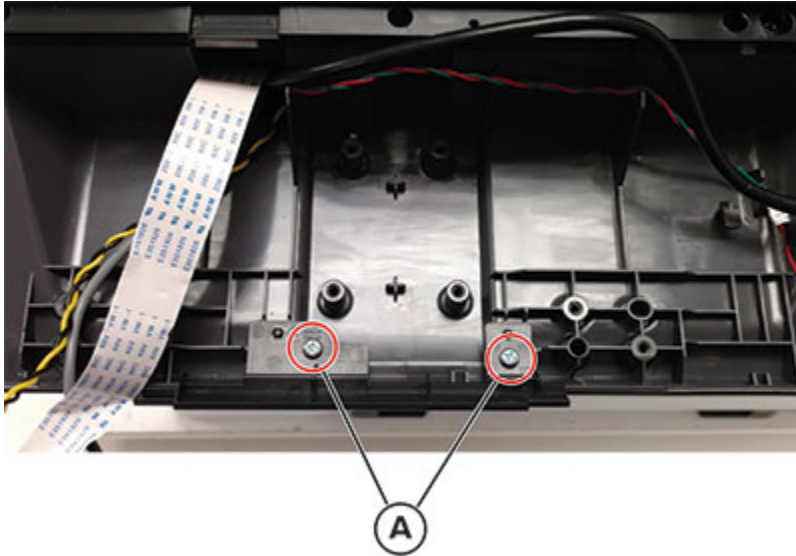


Front Bracket Cover Removal

1. Remove the scanner front cover. See [Scanner Front Cover Removal](#).

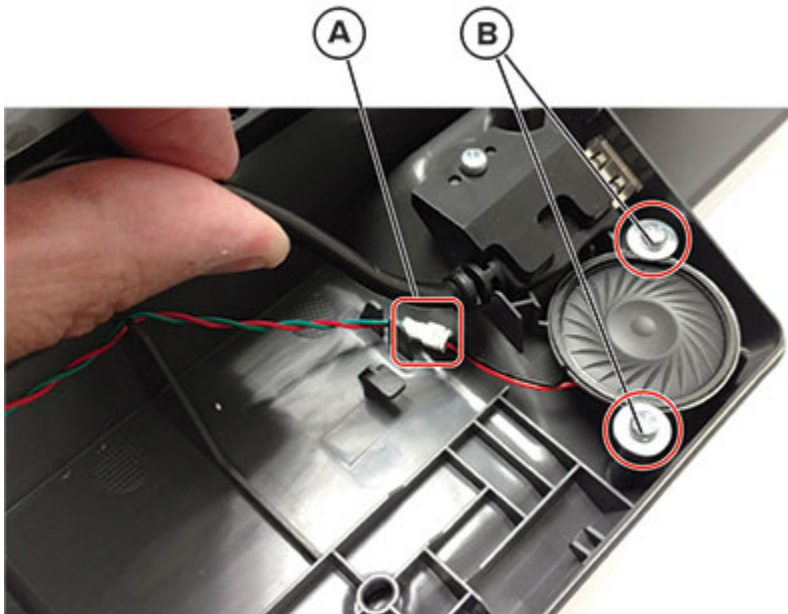
Parts Removal

2. Remove the two screws (A), and then remove the cover.



Speaker Removal

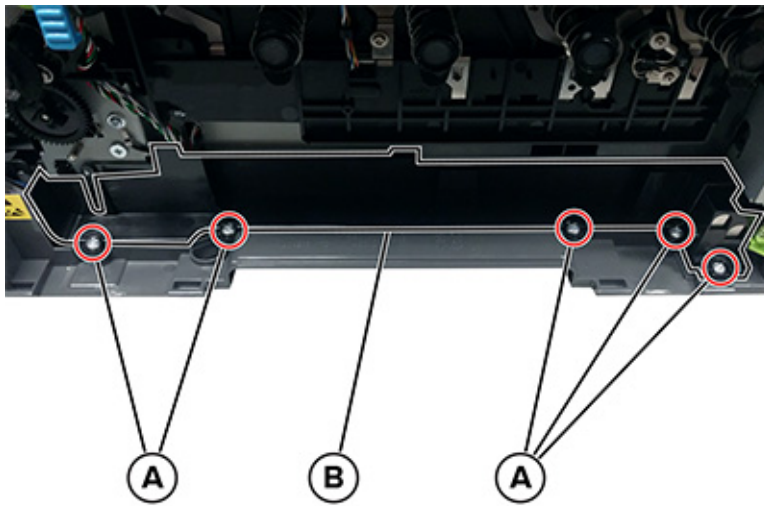
1. Remove the scanner front cover. See [Scanner Front Cover Removal](#).
2. Disconnect the cable (A), and then remove the two screws (B).



Weather Station Removal

1. Remove the right cover. See [Right cover removal](#).
2. Remove the waste toner bottle. See [Waste toner bottle removal](#).

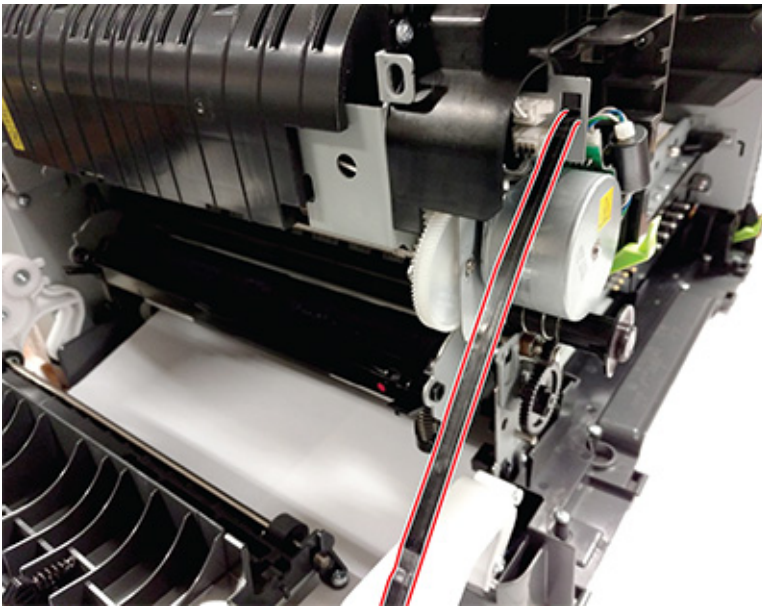
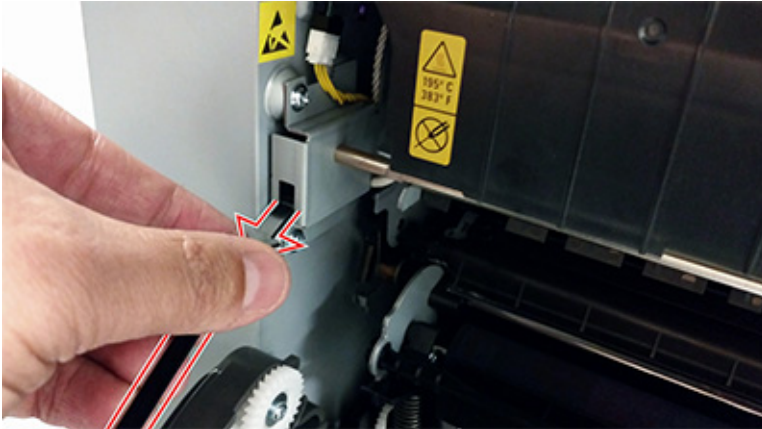
3. Remove the five screws (A), and then remove the cover (B).



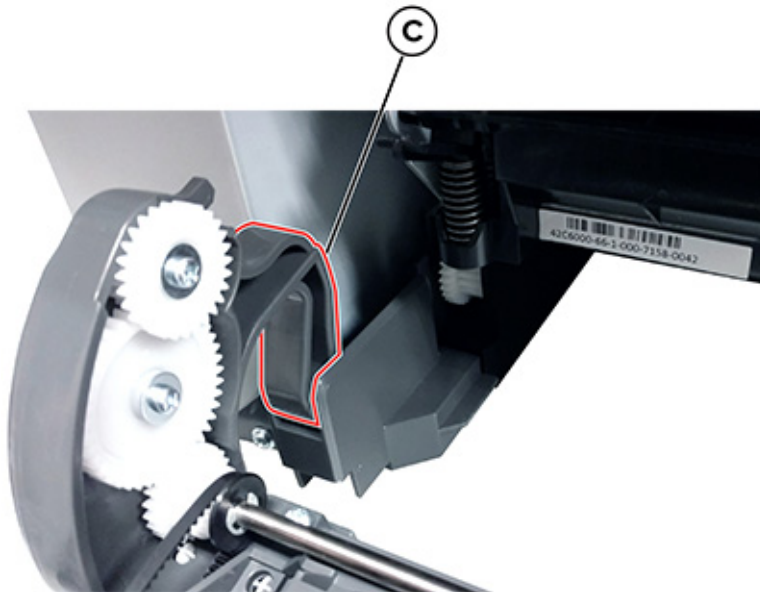
4. Open the front door.

Parts Removal

5. Release the left and right door straps.



6. Remove the left hinge (C) from the left subframe.

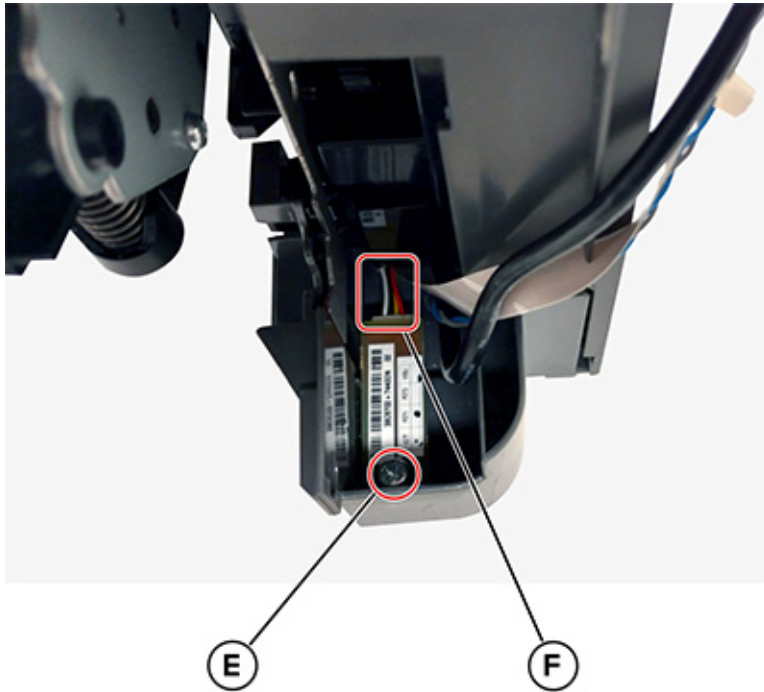


7. Remove the right hinge (D) from the right subframe.



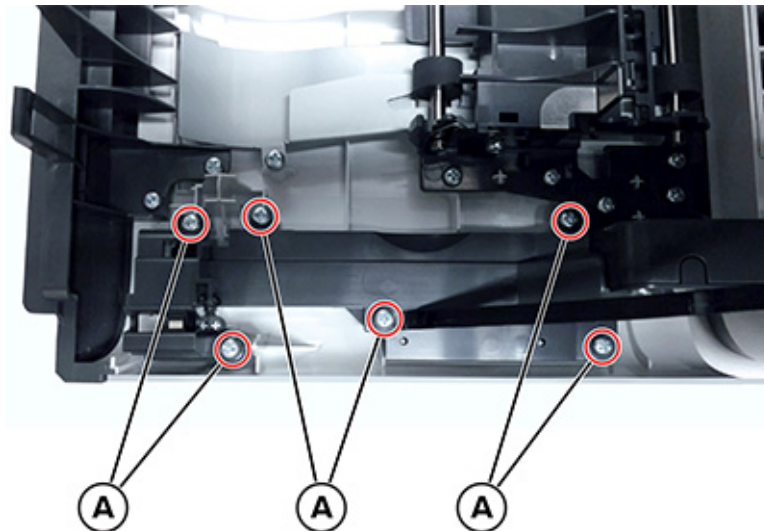
Parts Removal

8. Remove the screw (E), and then disconnect the cable (F) from the sensor.

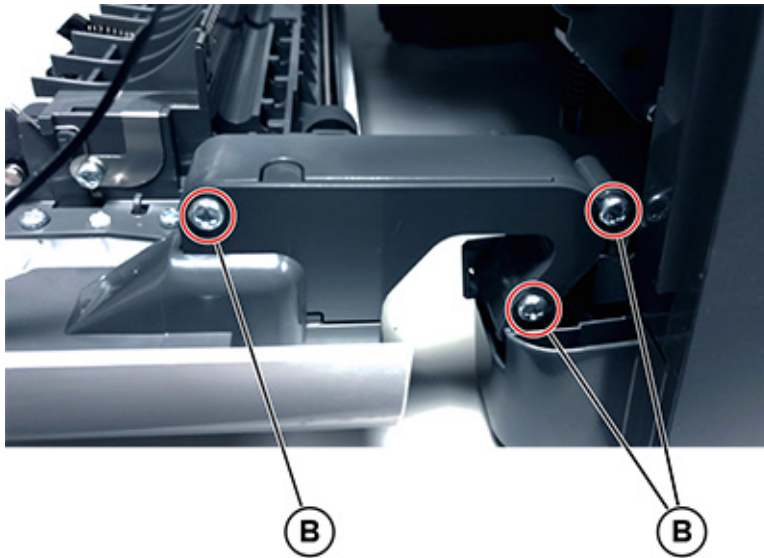


Wireless Card Removal

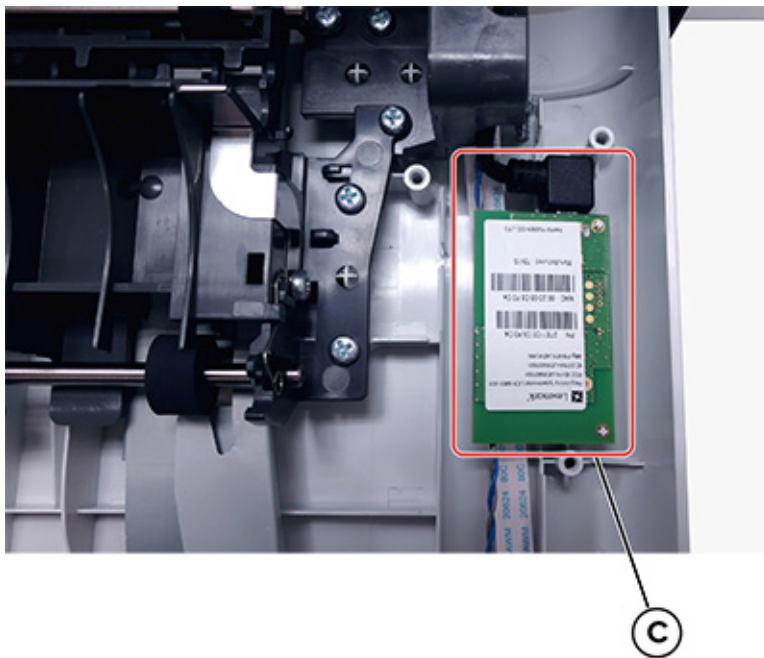
1. Remove the tray.
2. Remove the six screws (A).




3. Remove the three screws (B).



4. Disconnect the cable from the wireless card (C).




Fuser Removal

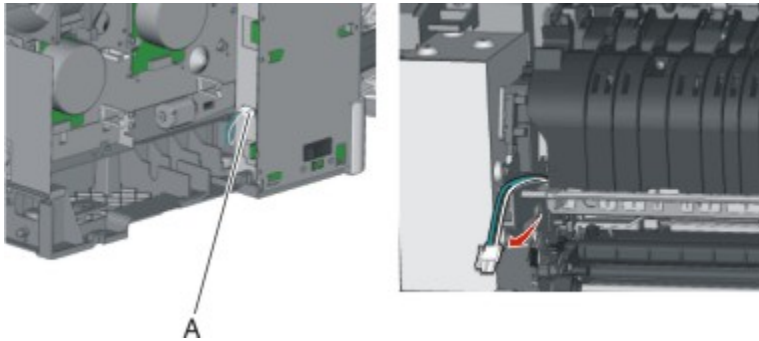
 **Note:** For a video demonstration, see [Fuser removal](#).

1. Remove the right cover. See [Right cover removal](#).
2. Remove the left cover. See [Left cover removal](#).
3. Disconnect the cable (A) from the LVPS.

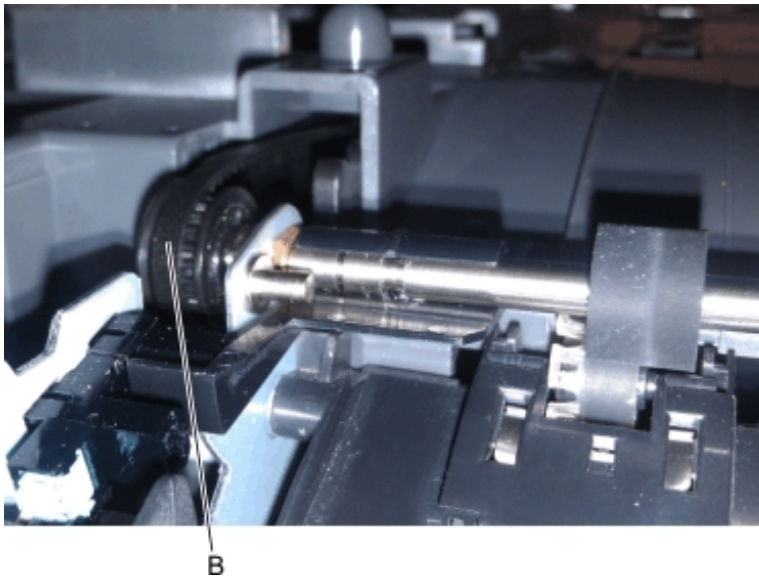
Parts Removal

4. Position the fuser cable so that it can be pulled through from the front of the printer, and then guide the cable through the front.

 **Warning:** Do not pull the cable too hard or cut the cable insulation.

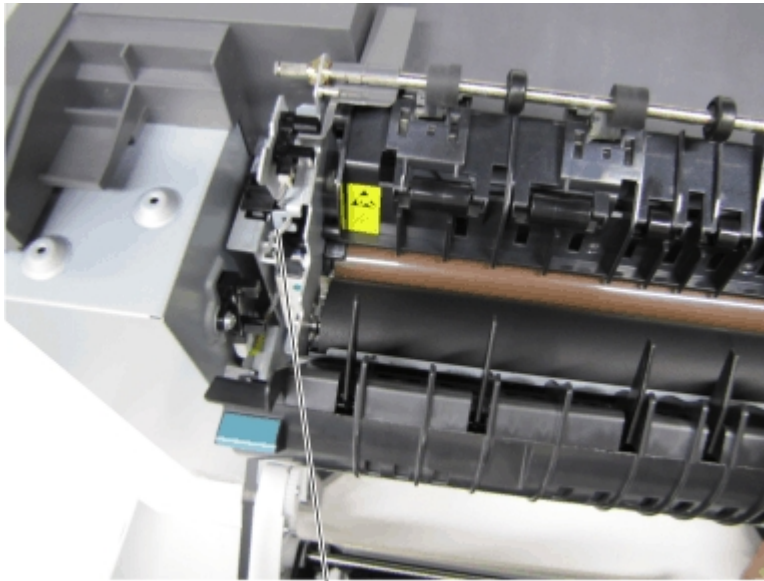


5. Remove the redrive belt (B) from the redrive pulley.



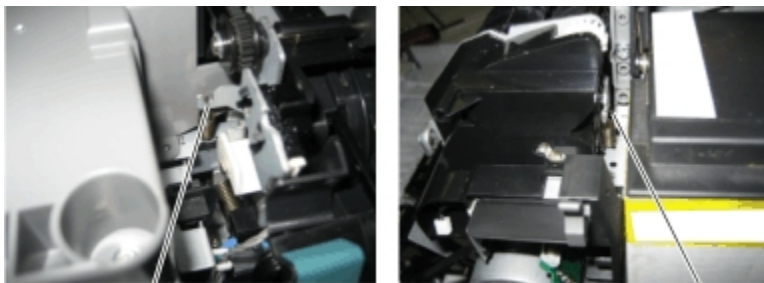
6. Remove the bin full/narrow media sensor flag. See [Narrow Media Sensor Flag Removal](#).
7. Remove the right output bin deflector. See [Right Output Bin Deflector Removal](#).

8. Disconnect the cable (C), and then remove it from its retainer.



C

9. Unhook the two springs (D) from both sides of the fuser.



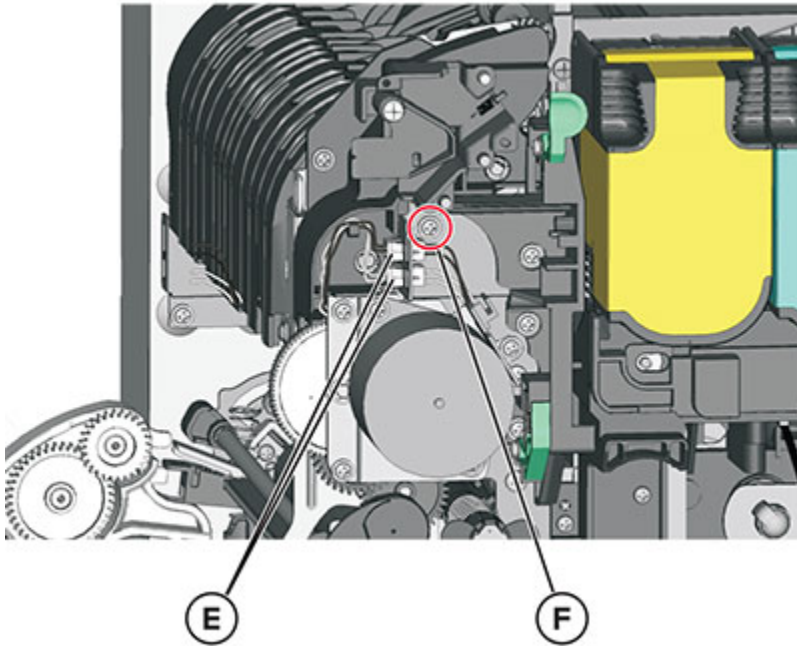
D


D

10. Disconnect the two cables (E), and then pull them over the retainer.

Parts Removal

11. Remove the screw (F).



 **Note:** Do not lose the grounding washer.

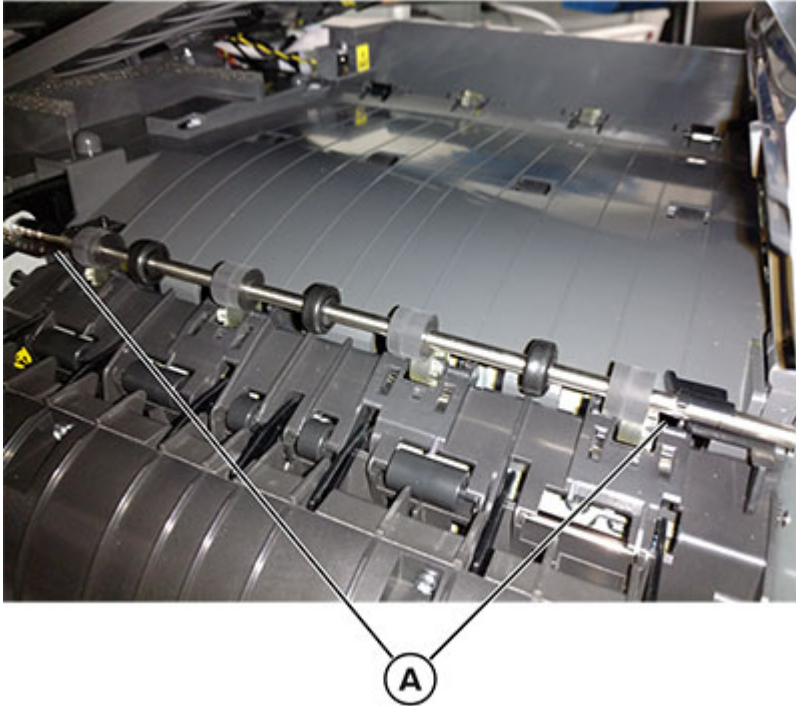
12. Rotate the top of the fuser toward the front, and then slide the fuser to the left to align the fuser side frames with the flat area of the shaft.

 **Warning:** Do not damage the sensor (fuser exit) on the left of the fuser when rotating.

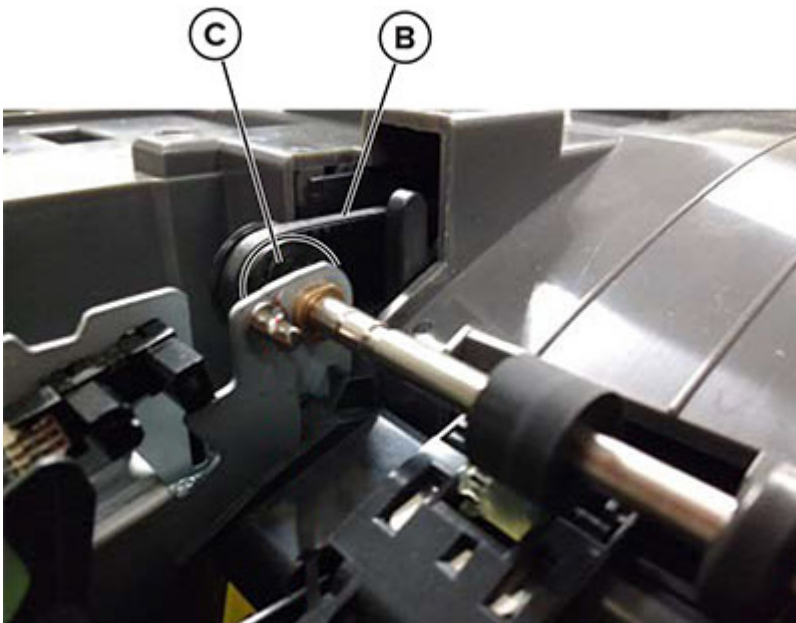
13. Lift, and then remove the fuser.

Installation notes:

- a. Install the flags (A) from the old fuser into the new fuser.



- b. Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Supply Reset > Fuser Reset
- c. Select **Start**.
- d. Make sure that the fuser exit redrive belt (B) is properly seated and engaged to the pulley (C).




Parts Removal

- e. Print approximately 15 test pages each in simplex and duplex modes to make sure that the belt is properly working and the flags are properly installed.
- f. Pay attention to noise that may indicate an improper belt installation.
- g. If a Remove media from output bin or a 34.04 error appears, check the fuser flags for proper installation.

Bottom Removals

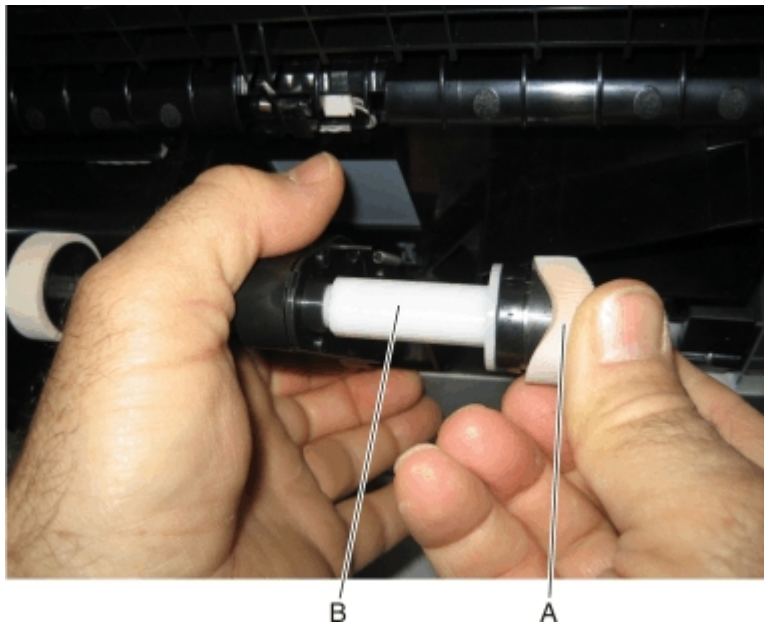
Pick Tires Removal


 **Warning:** Remove only the rubber tires and not the paper pick tire assembly to avoid losing small parts.

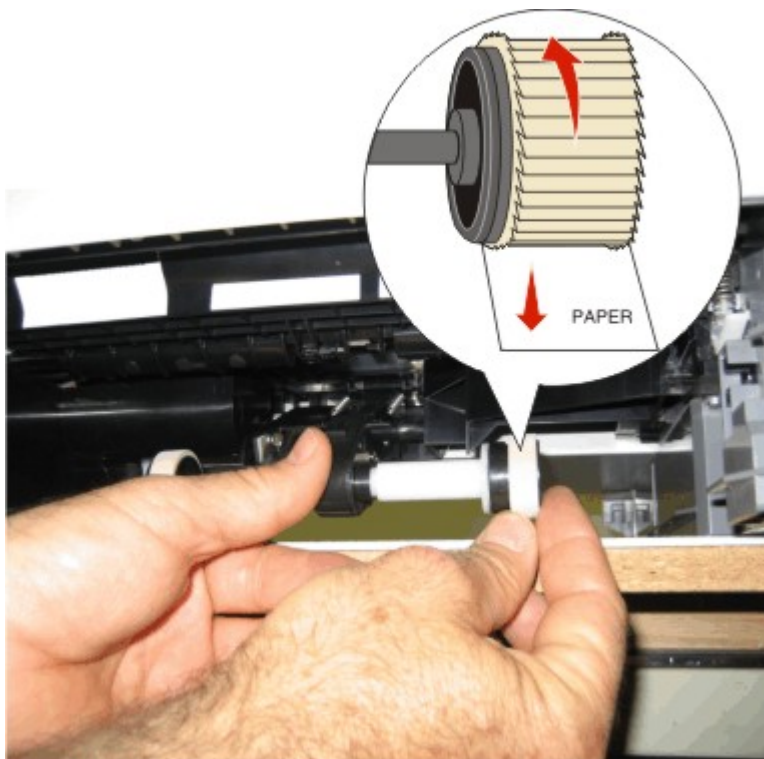
1. Lower the paper pick motor drive assembly.


Parts Removal

2. Remove the rubber tire (A) from the pick roll assembly (B). Repeat for the other tire.




 **Note:** Installation note: Install the new rubber tires with the surface texture turning in the direction as shown in the following:

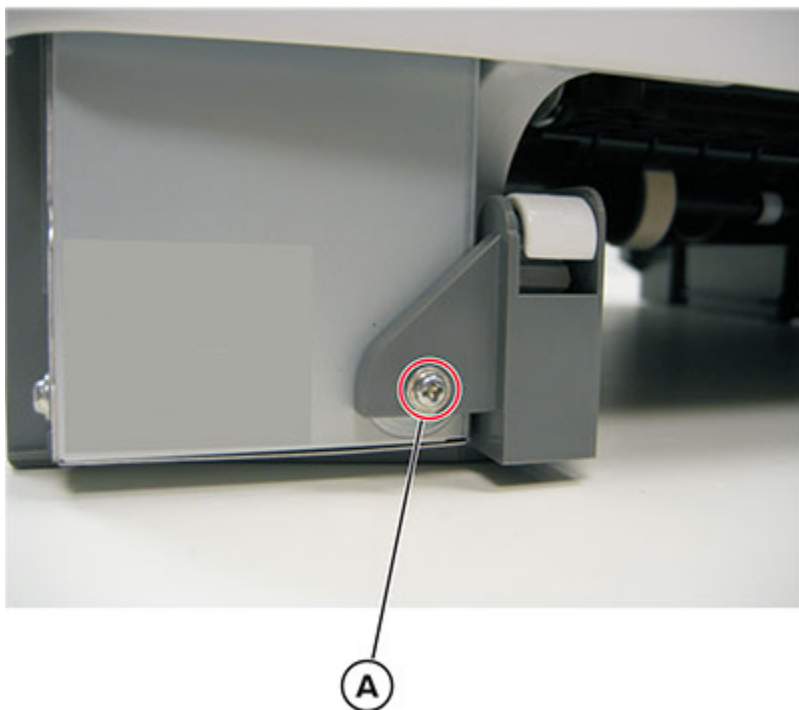


 **Note:** Feel each rubber surface to verify that it turns in the proper direction. The smoother surface pushes the paper toward the front of the printer.

Lower Left Frame Removal

 **Note:** The lower left frame and lower right frame are in the same FRU.

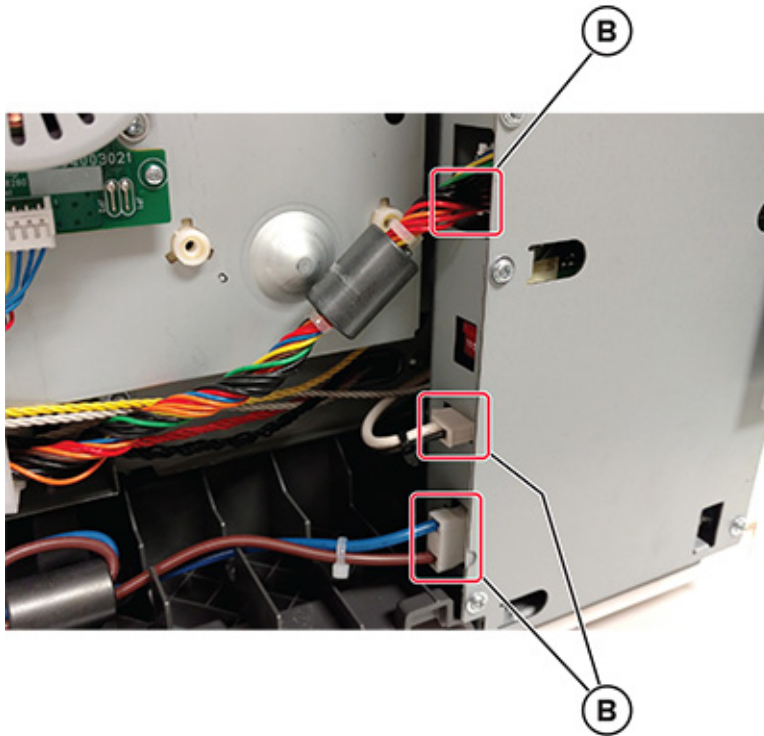
1. Remove the tray insert.
2. Remove the screw (A).



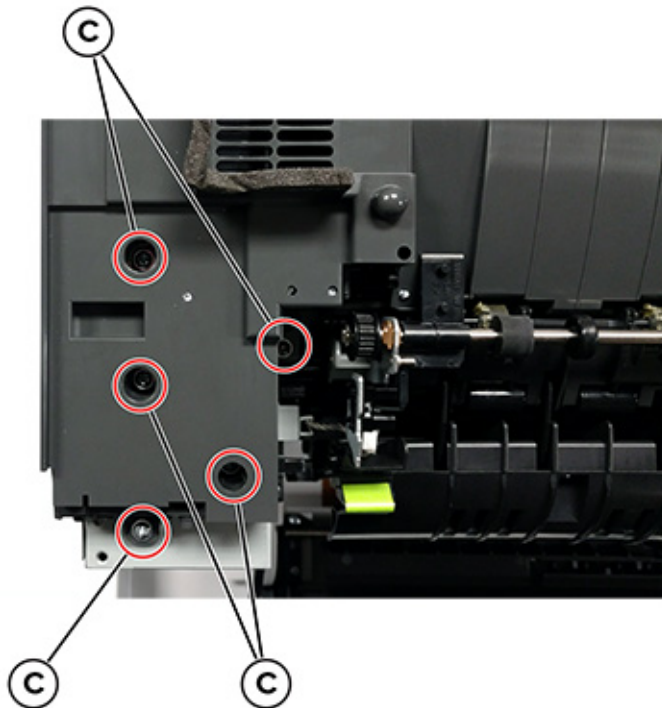
3. Remove the waste toner bottle. See [Waste toner bottle removal](#).
4. Remove the imaging kit. See [Imaging kit removal](#).
5. Remove the left cover. See [Left cover removal](#).

Parts Removal


6. Disconnect the three cables (B).

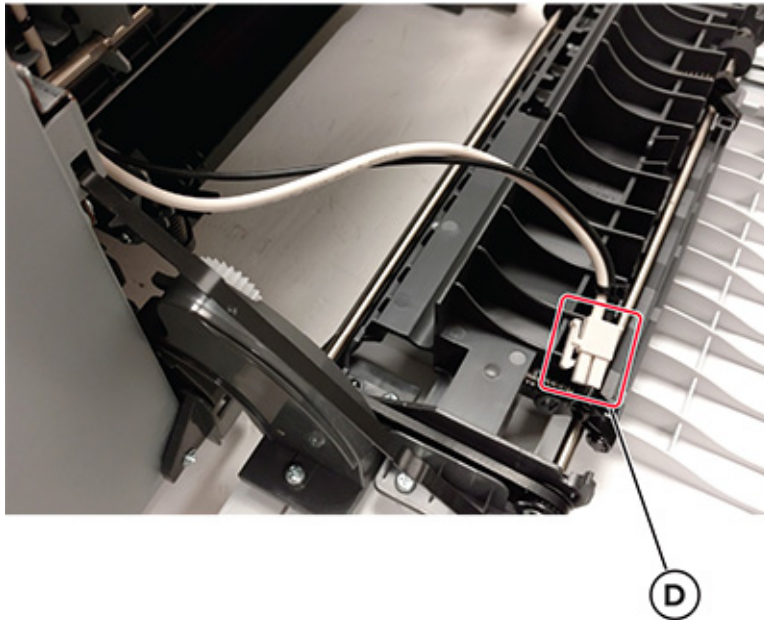


7. Remove the flatbed scanner assembly. See [Flatbed Scanner Assembly Removal](#).
8. Remove the five screws (C).

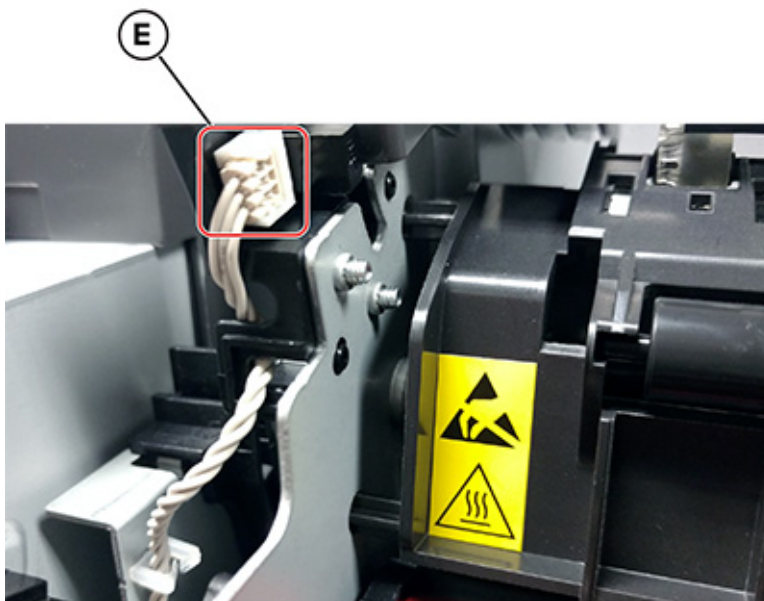


9. Position the fuser cable (D) so that it can be pulled through from the front of the printer, and then guide the cable through the front.

 **Warning:** Do not pull the cable too hard or cut the cable insulation.

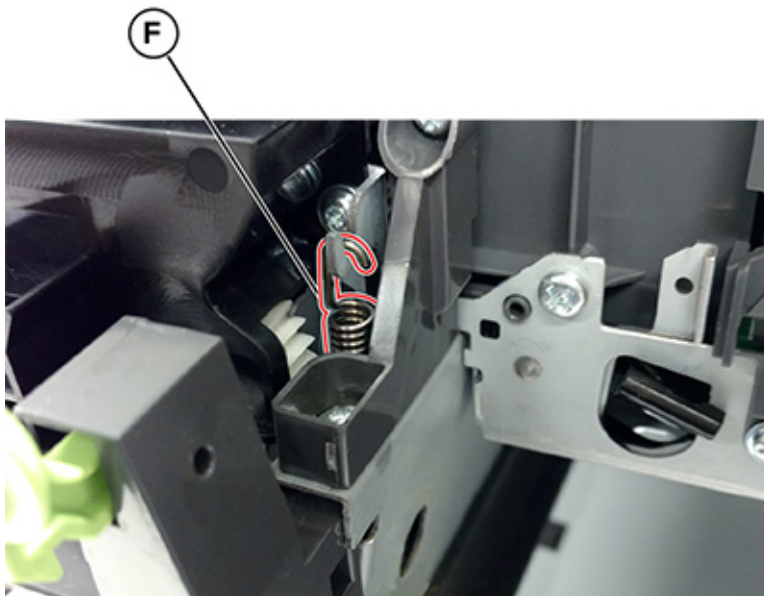
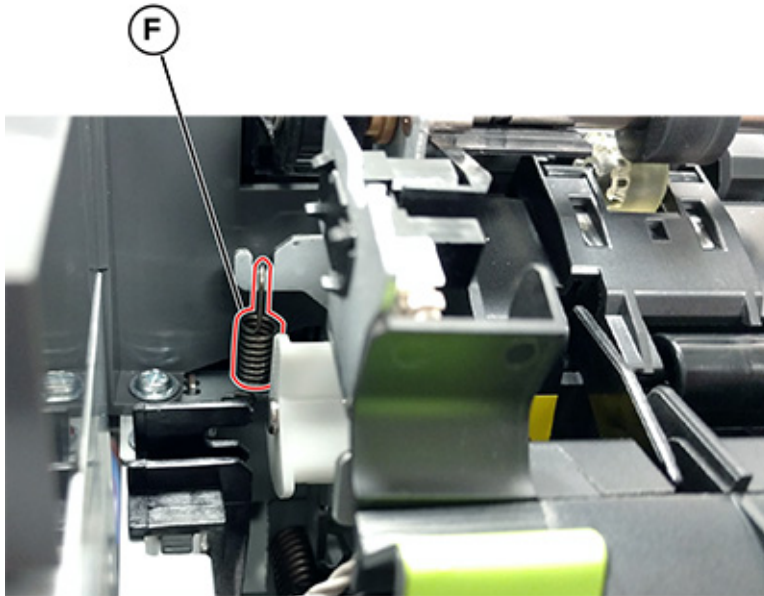


10. Remove the bin full/narrow media sensor flag. See [Narrow Media Sensor Flag Removal](#).
11. Disconnect the cable (E), and then remove it from its retainer.



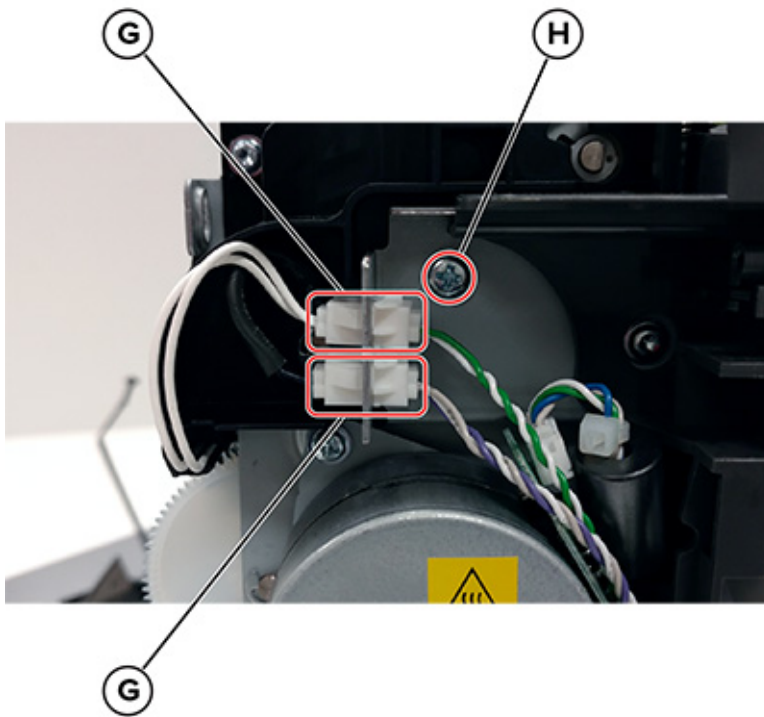
Parts Removal


12. Unhook the two springs (F) from both sides of the fuser.



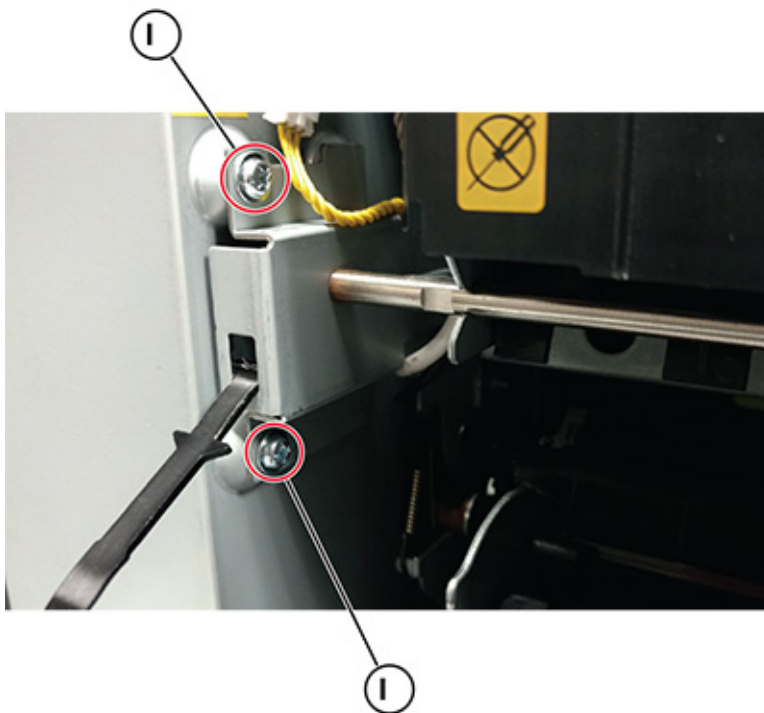
13. Disconnect the two cables (G), and then pull them over the retainer.

14. Remove the screw (H).



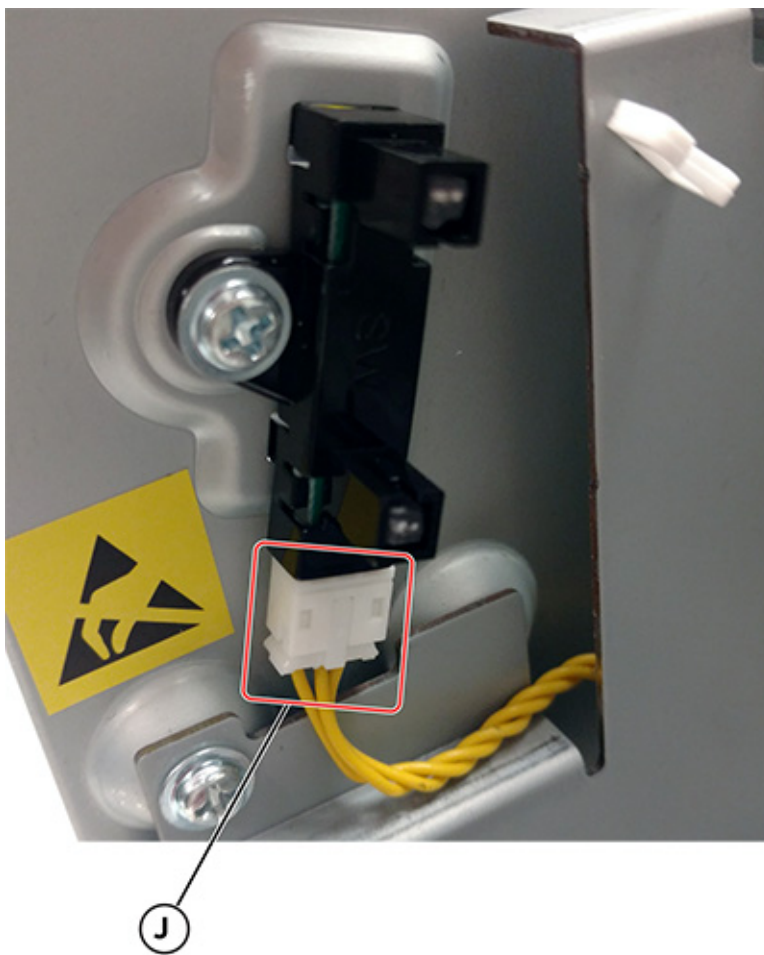
 **Note:** Do not lose the grounding washer.

15. Remove the two screws (I).



Parts Removal

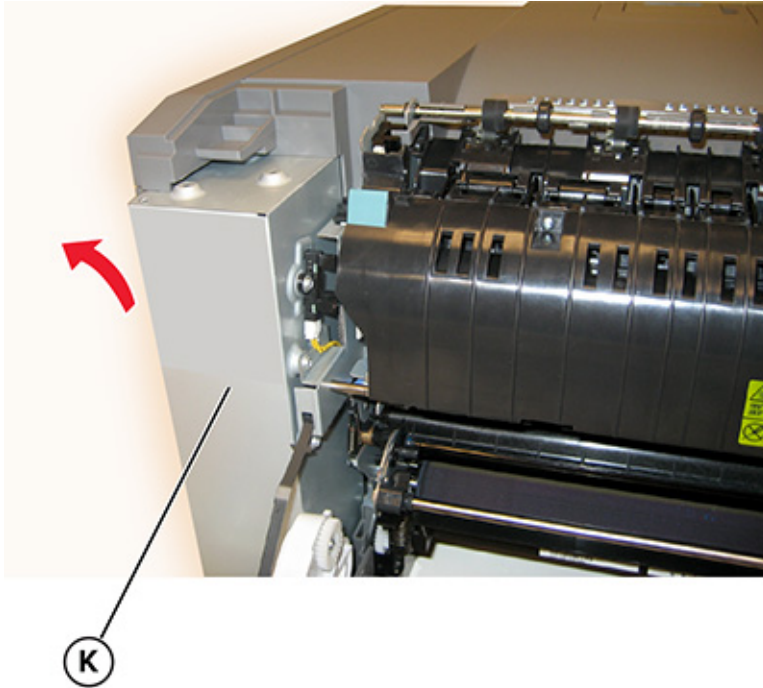
16. Rotate the top of the fuser toward the front, and then slide the fuser to the left to align the fuser side frames with the flat area of the shaft.
17. Disconnect the cable (J).



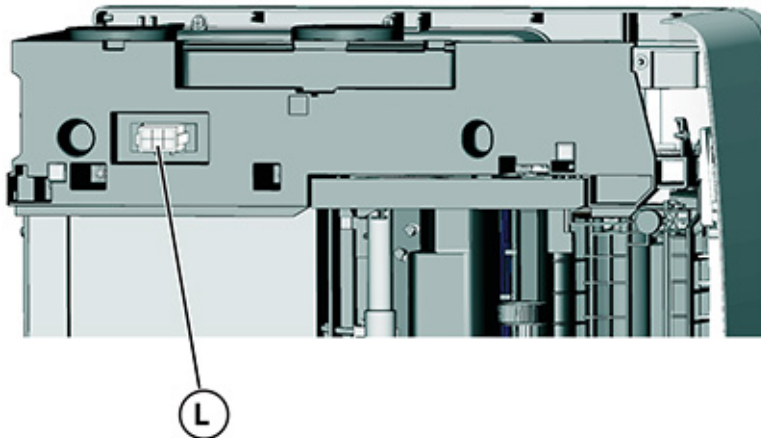
18. Lift the front left corner of the top cover, and then tilt the LVPS cage (K) to remove the cage.

 **Note:**

- At the bottom of the cage on the left side, disengage the two posts.
- Pay attention to the sensor (fuser exit) which remains on the cage.

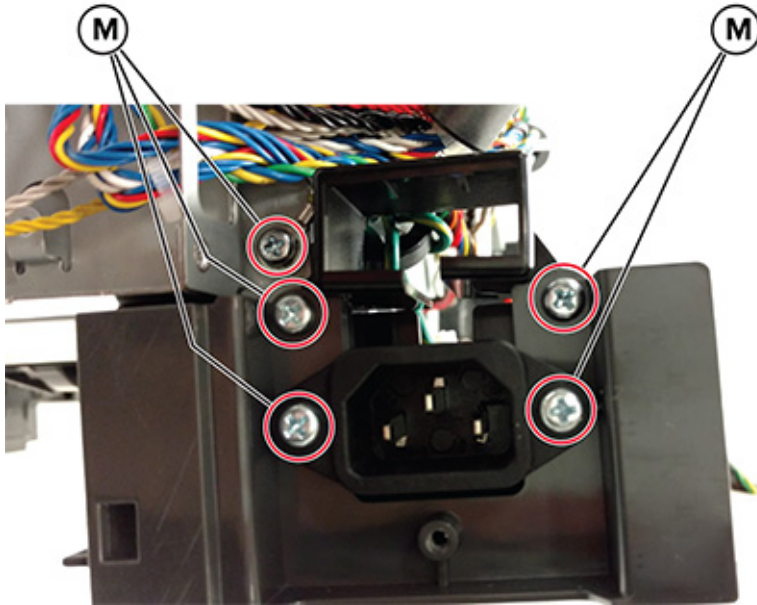


19. Place the printer on its right side.
20. Remove the connector (L).

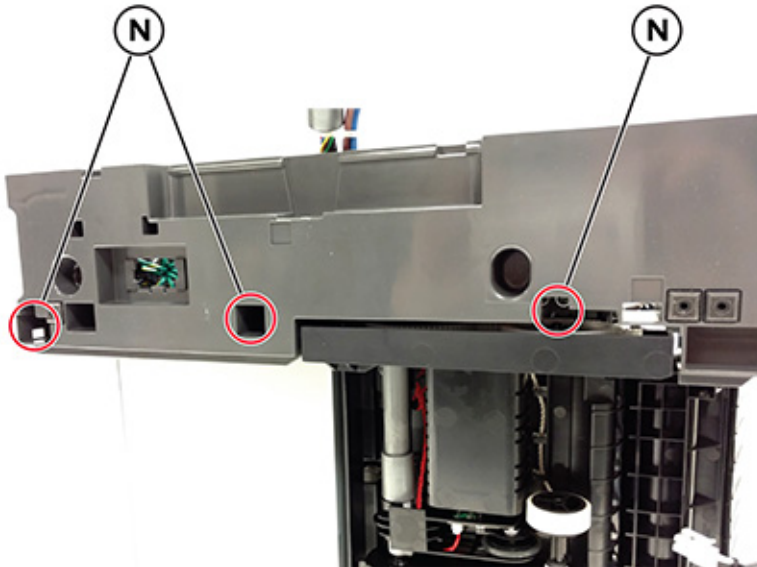


Parts Removal

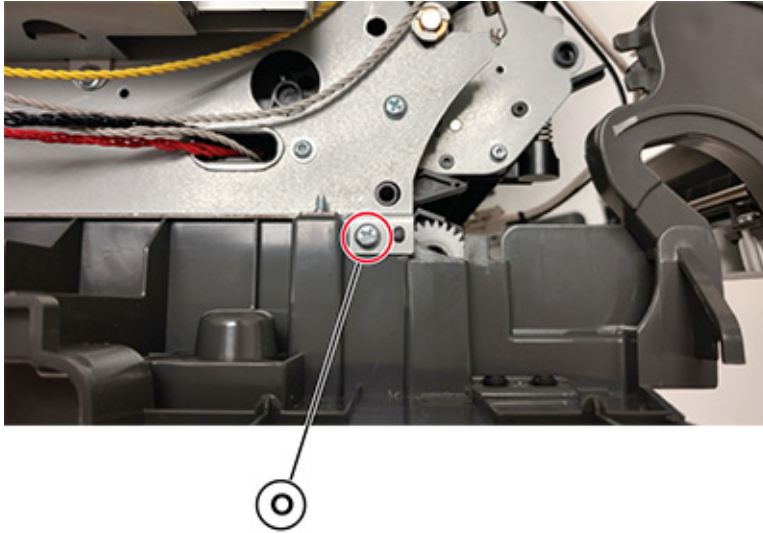
21. At the rear of the printer, remove the five screws (M).



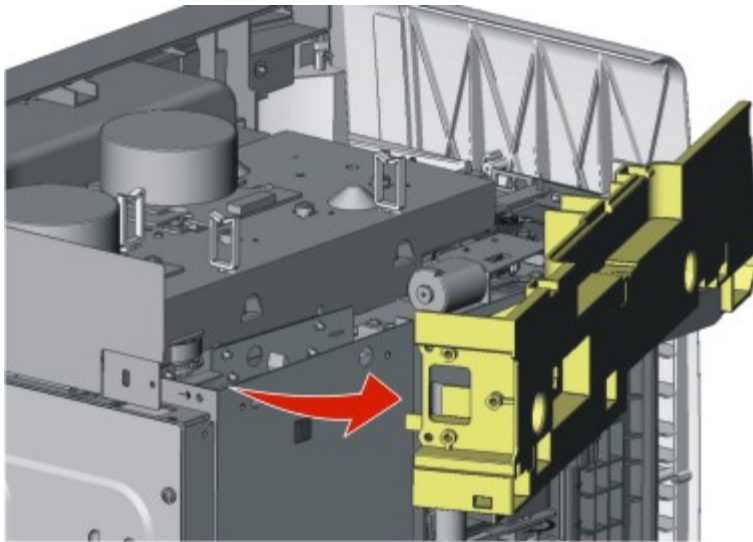
22. Remove the AC receptacle from the lower left frame.
23. Remove the three screws (N).



24. Tilt the front door down, detach the door from the frame, and then remove the screw (O).



25. Swing the lower left frame away from the printer to remove it.

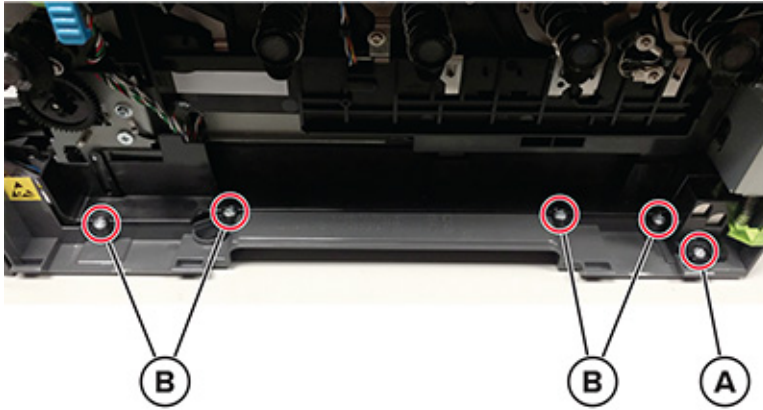


Lower Right Frame Removal

1. Remove the tray insert.
2. Remove the waste toner bottle. See [Waste toner bottle removal](#).
3. Remove the imaging kit. See [Imaging kit removal](#).

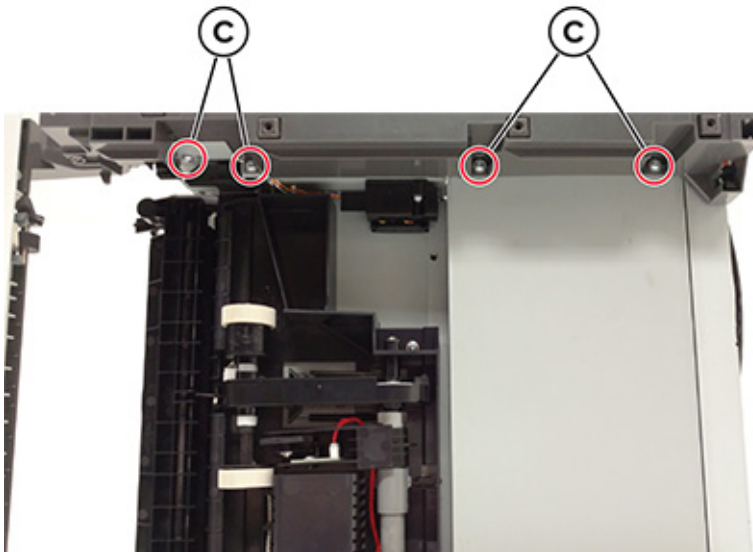
Parts Removal

4. Remove the screw (A), and then remove the four screws (B).

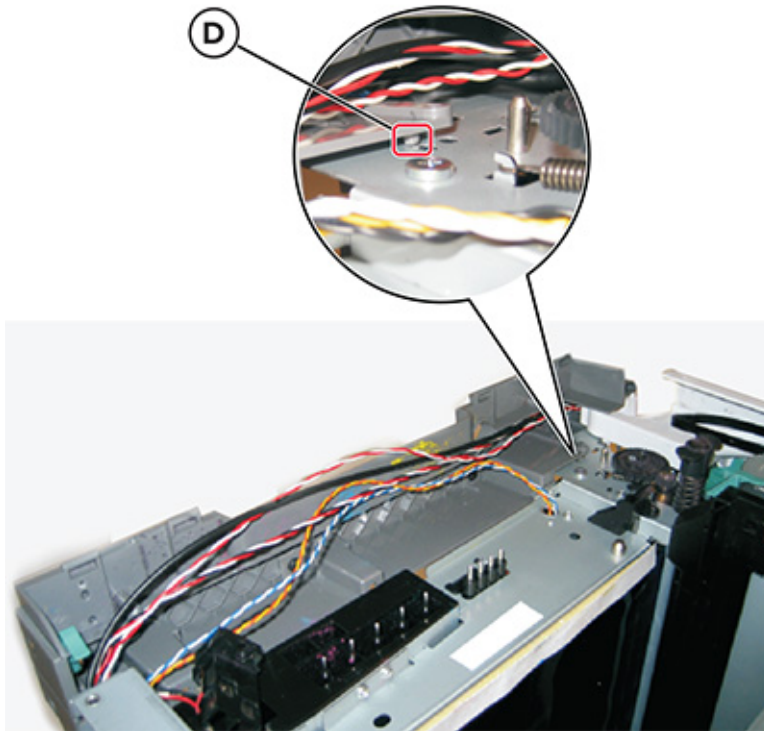


Note:

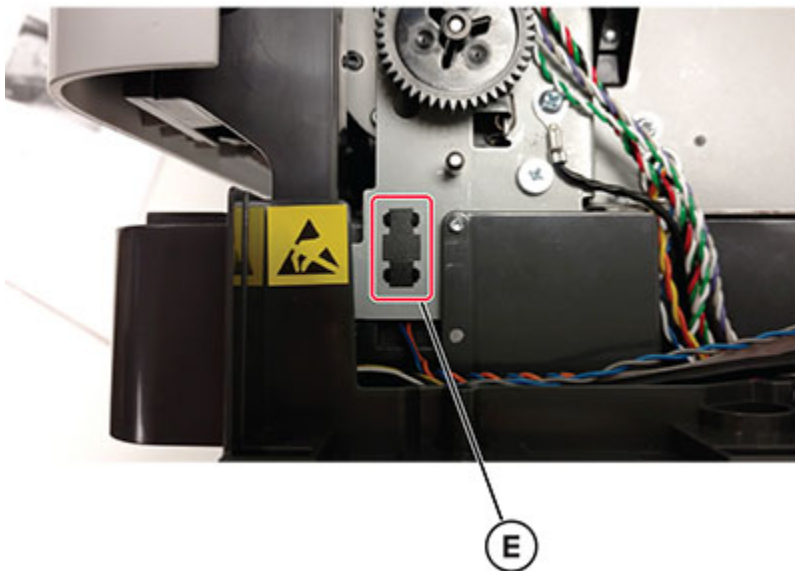
- Do not unplug the waste toner bottle sensor contact.
 - The cable cover is part of the lower right frame.
5. Place the printer on its left side.
 6. Remove the four screws (C).



7. Lift the lower right frame pin (D) out of the hole on the printer frame.

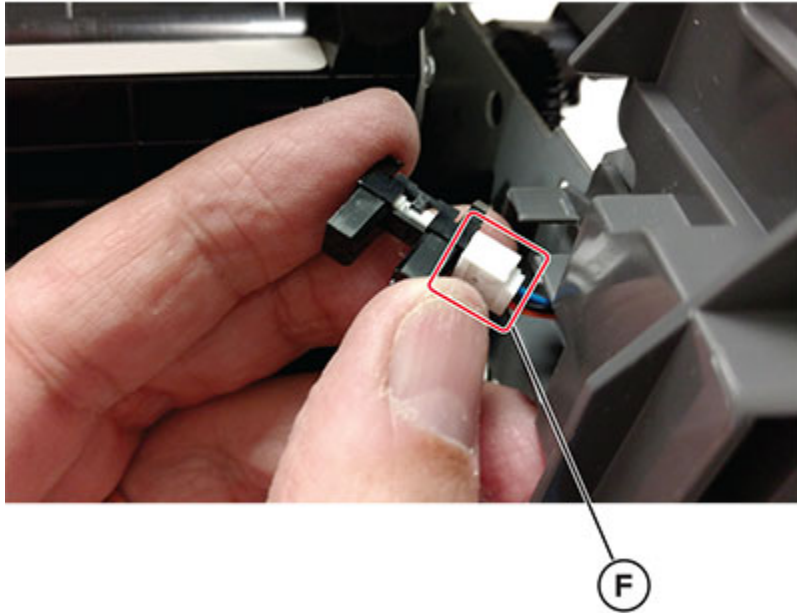


8. Remove the sensor retainer plate (E).

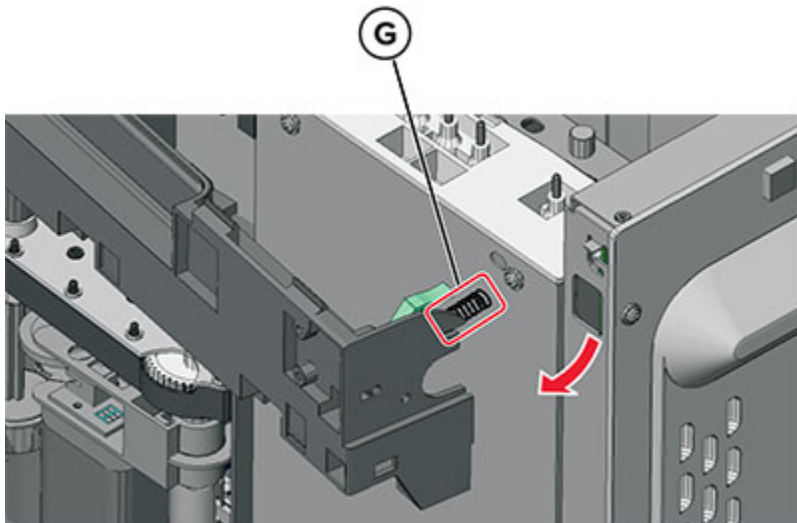


Parts Removal

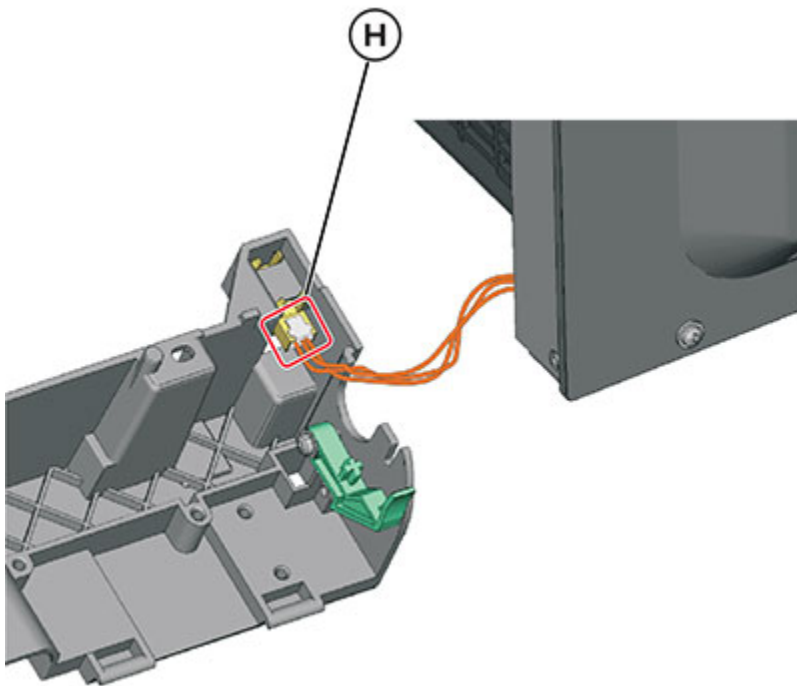
9. Remove the sensor, and then disconnect the cable (F).



10. Swing the rear part away from the printer, and then remove the spring (G).



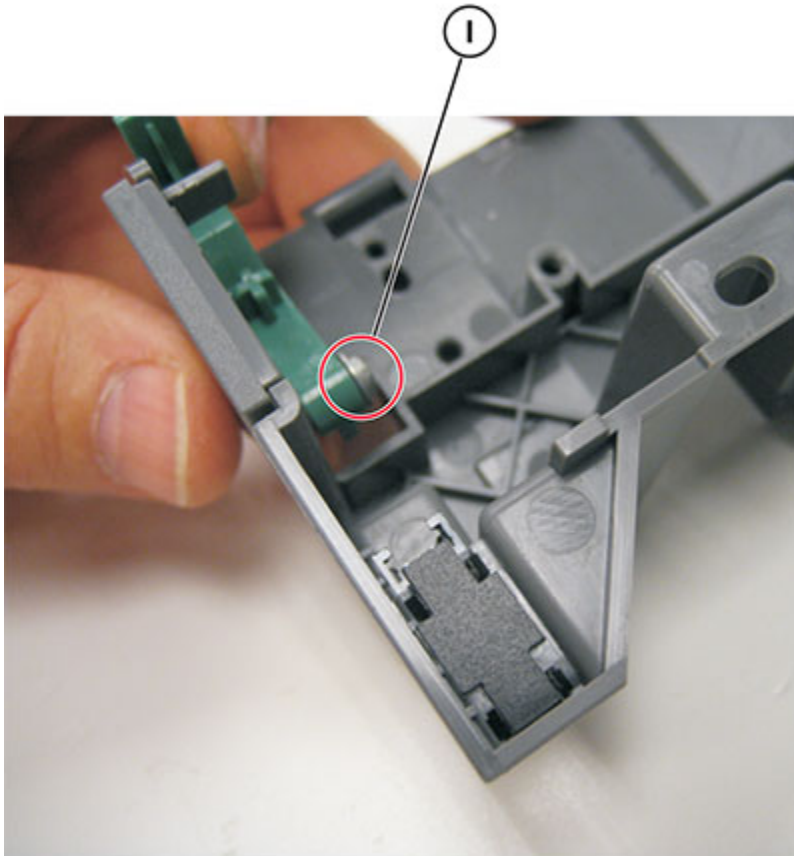
11. Disconnect the cable (H).



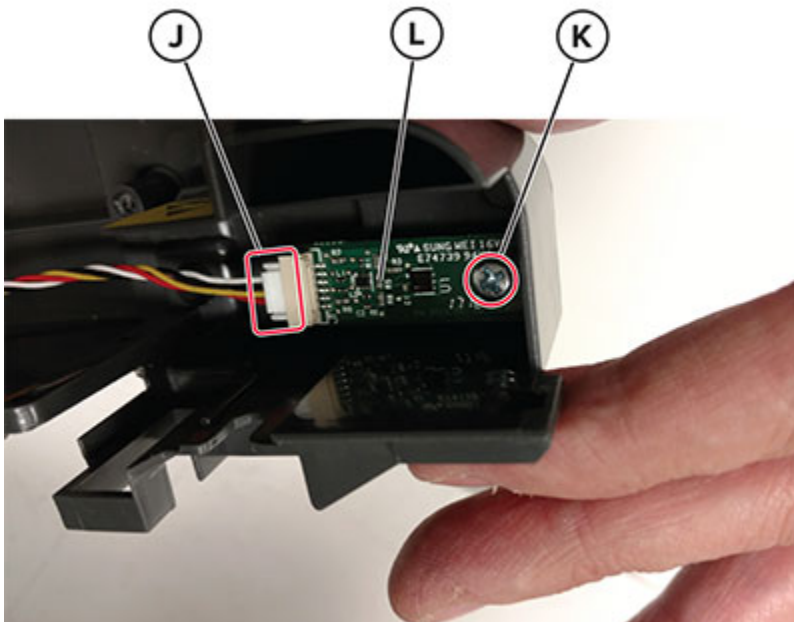
12. Swing the rear of the lower right frame away from the printer to remove it.

Parts Removal

13. From inside the lower right frame, remove the screw (I), and then remove the spring bracket.



14. Disconnect the cable (J), remove the screw (K), and then remove the sensor (L).

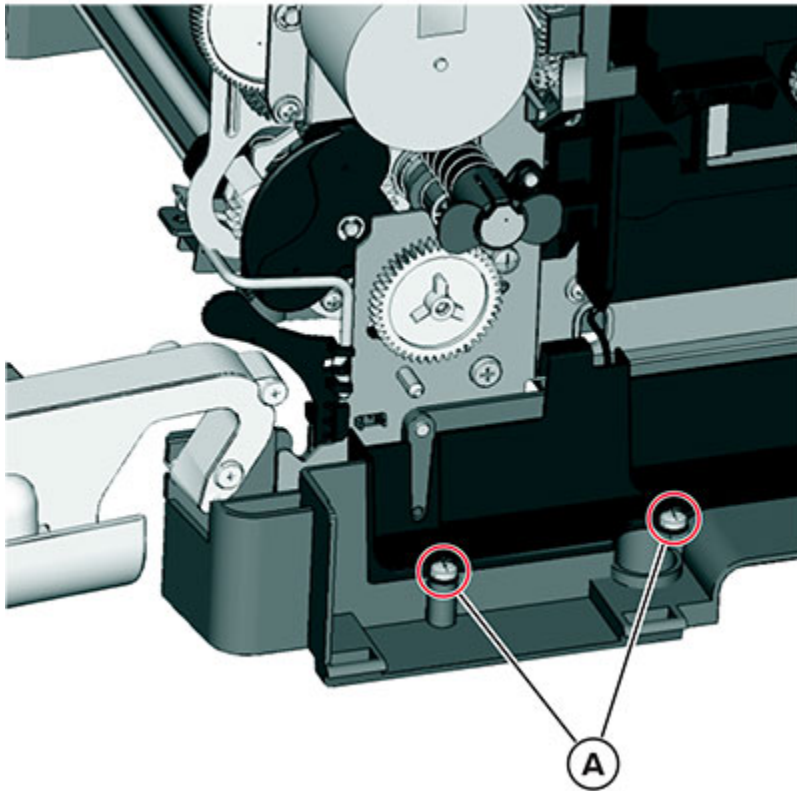


Installation notes:

- a. Reinstall the spring bracket and the weather station.
- b. Before installing the lower right frame, connect the cable to the sensor (tray present), and then put the spring in place.
- c. Install the weather station on the new lower right frame.

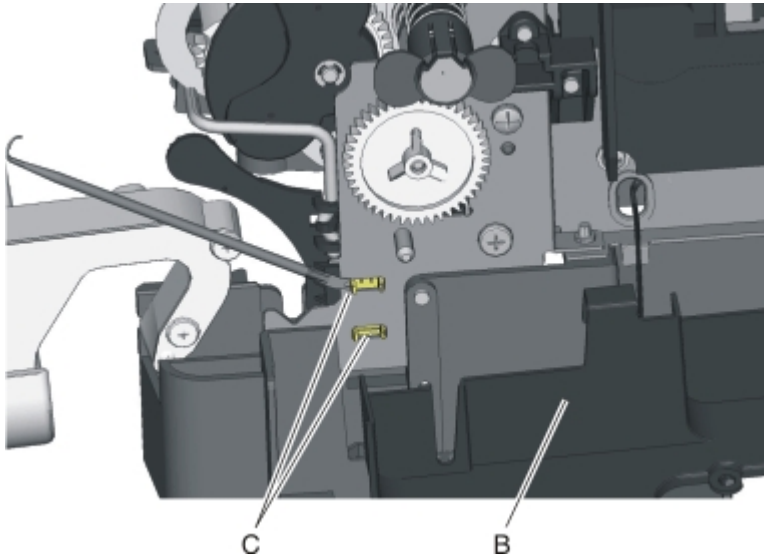
Sensor (Duplex) Removal

1. Remove the imaging kit. See [Imaging kit removal](#).
2. Remove the two screws (A).

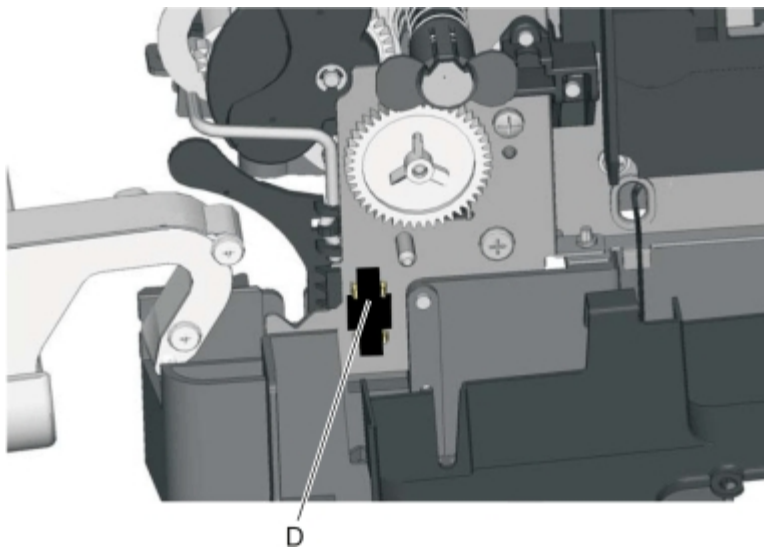


Parts Removal

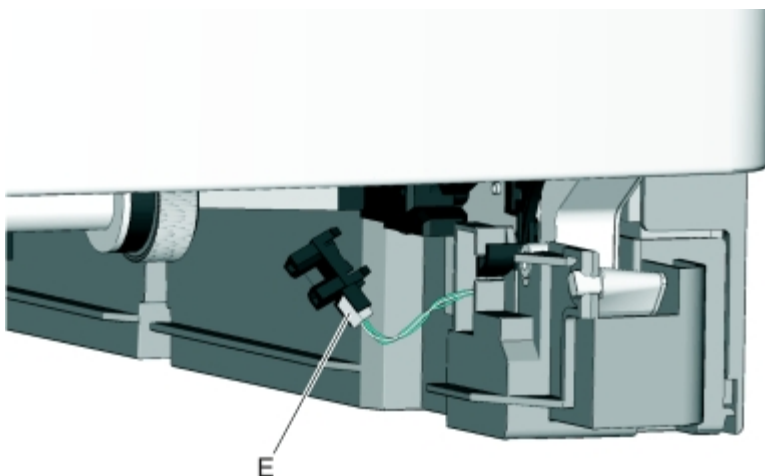
3. Pull the corner of the cable cover (B) away from the right side to access the two sensor posts (C).



4. Remove the sensor plate (D).



5. Press on the latches to detach the sensor from the printer frame.
6. Disconnect the cable (E).

**Installation notes:**

- a. Clean the contact surface where the sensor retaining plate was removed before installing the new sensor.

 **Note:** Make sure that the clamps on the sensor legs are securely attached to the printer frame.

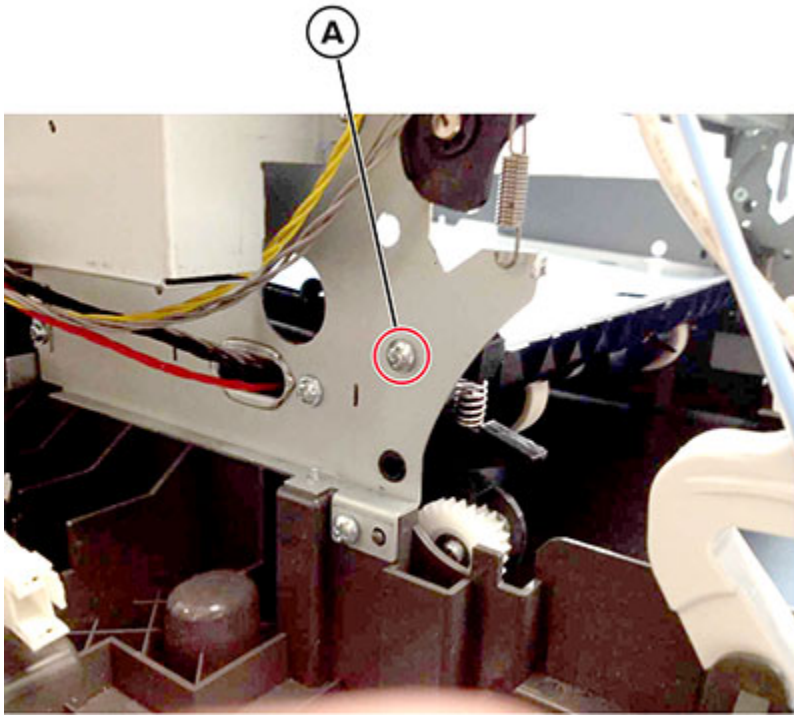
- b. Remove the backing from the new sensor retaining plate, and then place the plate on the surface between the sensor mounting latches.

Transfer Module Guide Removal


1. Remove the tray insert.
2. Remove the right cover. See [Right cover removal](#).
3. Remove the waste toner bottle. See [Waste toner bottle removal](#).
4. Remove the imaging kit. See [Imaging kit removal](#).
5. Remove the transfer module. See [Transfer module removal](#).
6. Remove the fuser. See [Fuser removal](#).
7. Remove the left cover. See [Left cover removal](#).
8. Remove the LVPS. See [LVPS removal](#).
9. Remove the lower right frame. See [Lower right frame removal](#).

Parts Removal

10. Remove the screw (A).




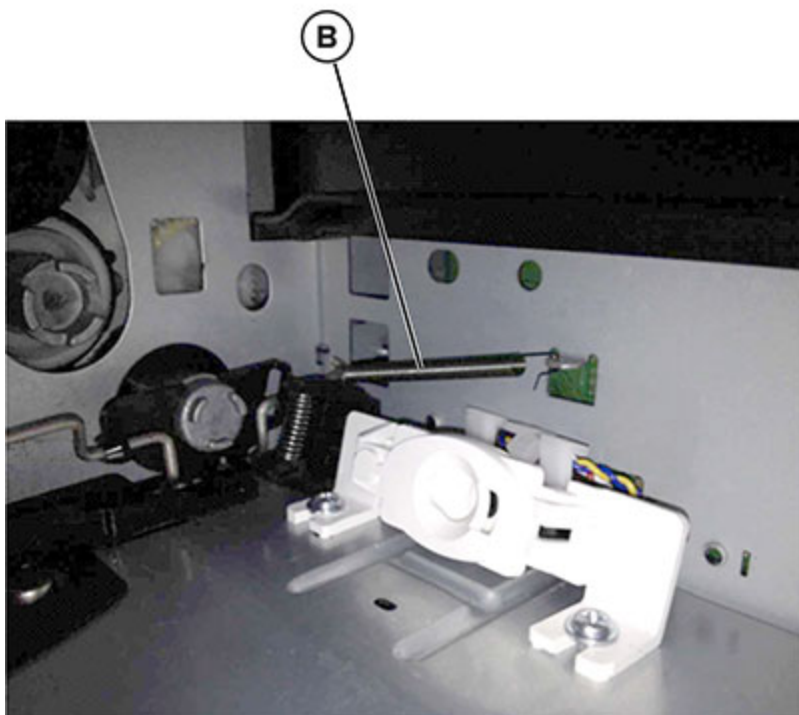
11. Remove the two screws securing the transfer module guide to the frame.

 **Note:** Use either a short #2 Phillips or a right angle screwdriver.

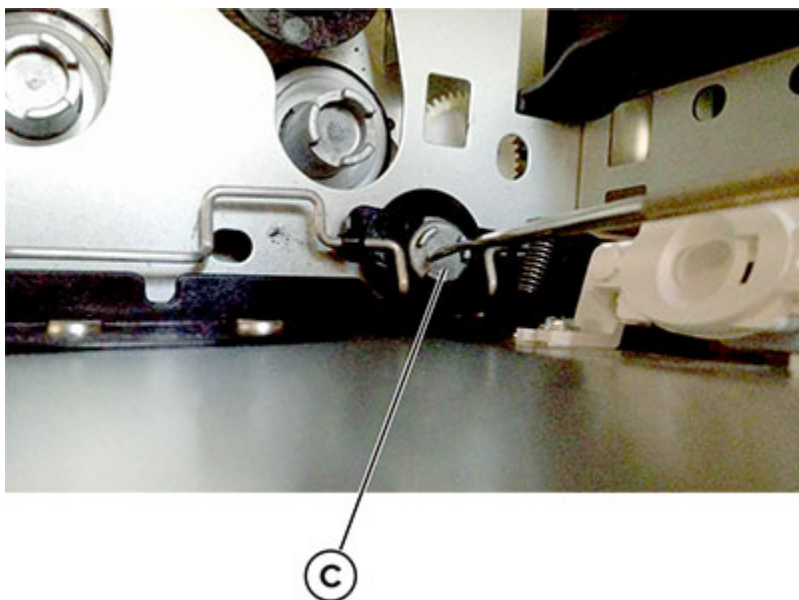


12. Remove the spring (B).

 **Note:** Pay attention to how the spring is attached to the bail.




13. Using a spring hook or screwdriver, press and hold the transfer module drive coupling (C), and then tilt the guide up from the side with the screw holes to remove it.

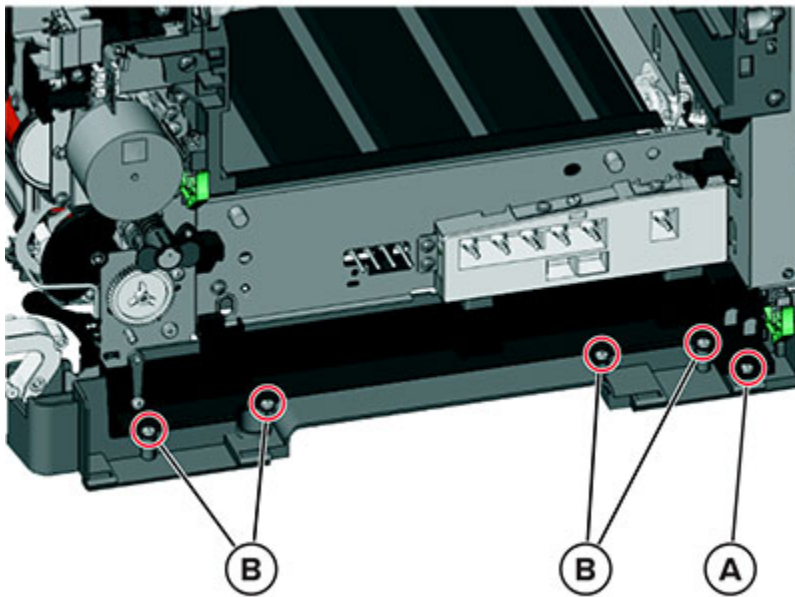


Sensor (Tray Present) Removal

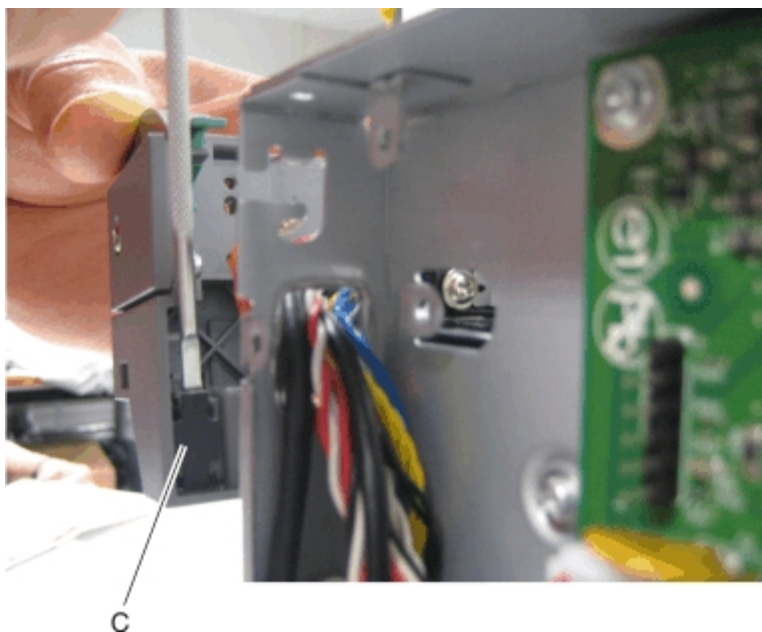
1. Remove the imaging kit. See [Imaging kit removal](#).
2. Remove the screw (A) securing the waste toner bottle sensor contact to access the cable cover.

 **Note:** Do not unplug the waste toner bottle sensor contact.

3. Remove the four screws (B), and then remove the cable cover.



4. Remove the lower right frame. See [Lower right frame removal](#).
5. Remove the sensor retaining plate (C), and then press on the latches together to remove the sensor.



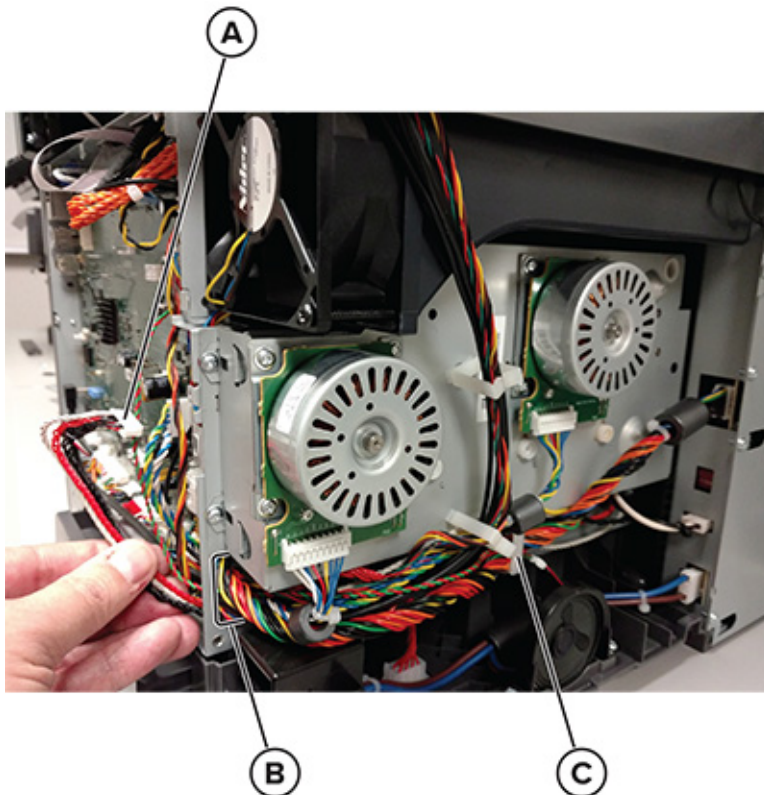
6. Disconnect the sensor cable.

Installation notes:

- a. Clean the contact surface where the sensor retaining plate was removed before installing the new sensor.
- b. Remove the backing from the new sensor retaining plate, and then place the plate on the surface between the sensor mounting latches.
- c. Connect the cable to the sensor.
- d. Replace the spring.

Tray 1 Media Feeder Removal

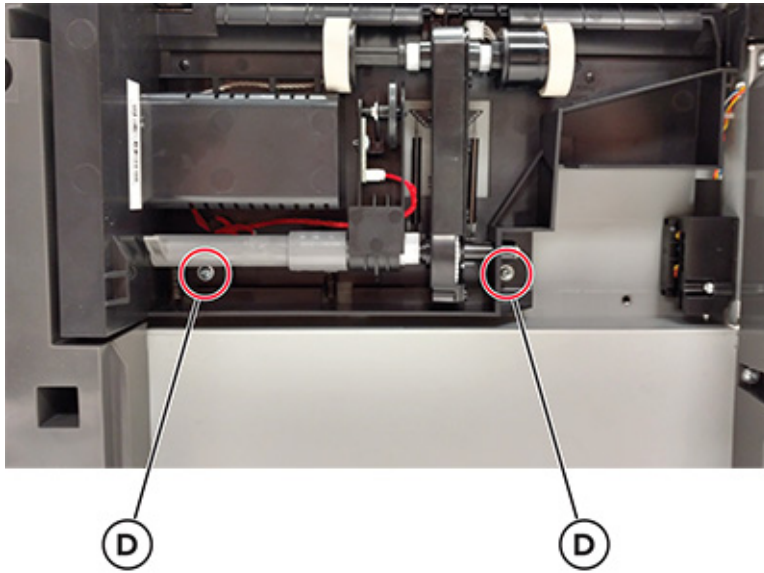
1. Remove the waste toner bottle. See [Waste toner bottle removal](#).
2. Remove the imaging kit. See [Imaging kit removal](#).
3. Remove the left cover. See [Left cover removal](#).
4. Remove the rear cover. See [Rear cover removal](#).
5. Disconnect the cable (A) from the JSP1 connector on the controller board.
6. Route the cable through the opening (B), and then remove the cable from its retainer (C).



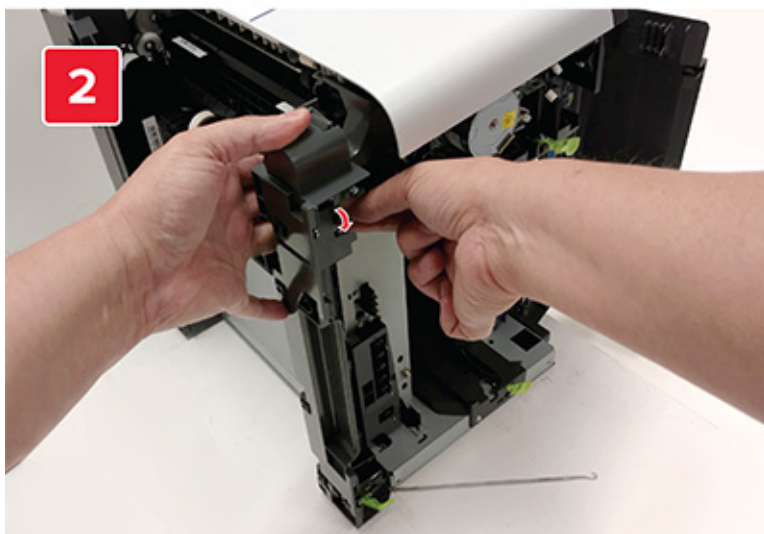
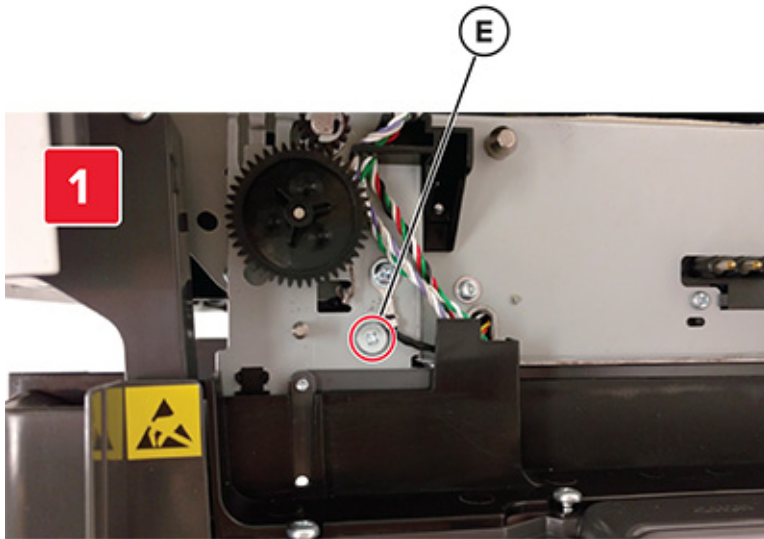
7. Partially reinstall the rear cover to protect the controller board.

Parts Removal


8. Place the printer on its rear, and then remove the two screws (D).



9. On the right side, loosen the screw (E) with a screwdriver, and then remove it while holding the paper feed roller assembly.



10. Move the right side of the paper feed roller assembly out to free the shaft from the opening in the frame.

 **Note:** Pay attention to the location of the shaft and the opening in the frame.

11. Remove the paper feed roller assembly.

Installation notes:

- a. Place the left side of the paper feed roller assembly in the printer. Make sure that the shaft on the left side aligns with the hole in the frame.
- b. Reinstall the three screws holding the paper feed roller assembly to the printer.
- c. Place the printer on the upright position.
- d. Reroute the cable, and then make sure to secure the cable in its retainer on the left side.

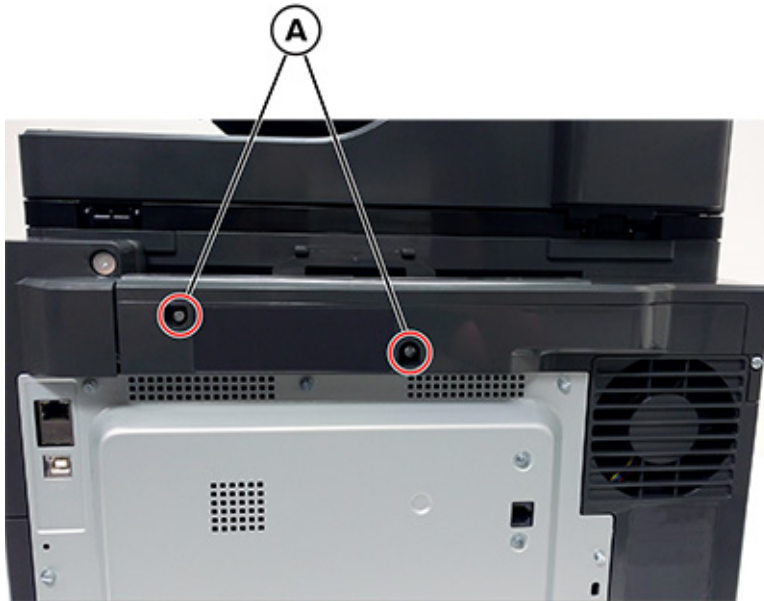
Parts Removal

- e. Remove the rear cover, and then reconnect the cable on the controller board.
- f. Replace the rear cover.

Rear Side Removals

MFP Cable Cover Removal

1. Remove the two screws (A).



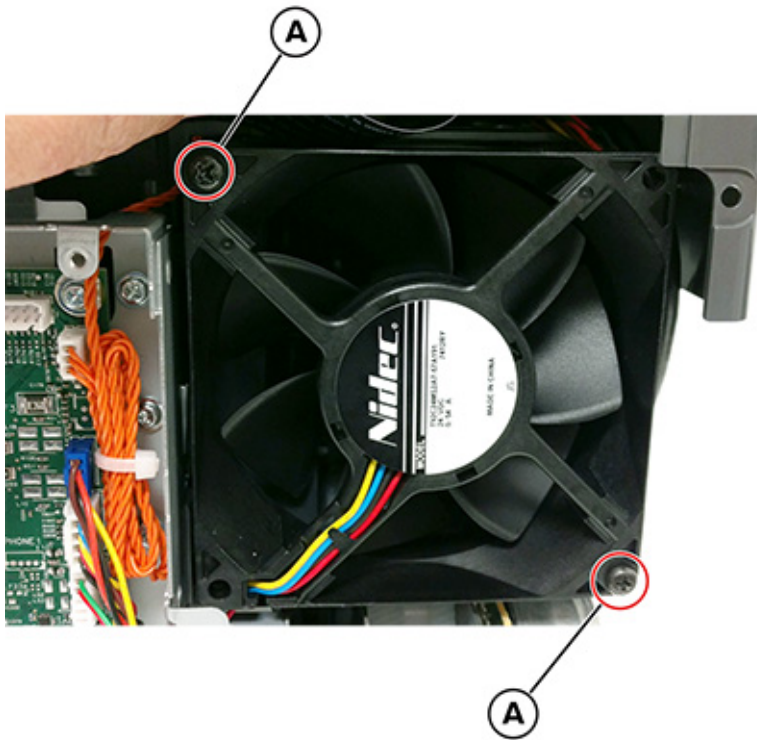
2. Gently pull the left side of the cable cover, and then slide it to the left to remove.

System Fan Removal

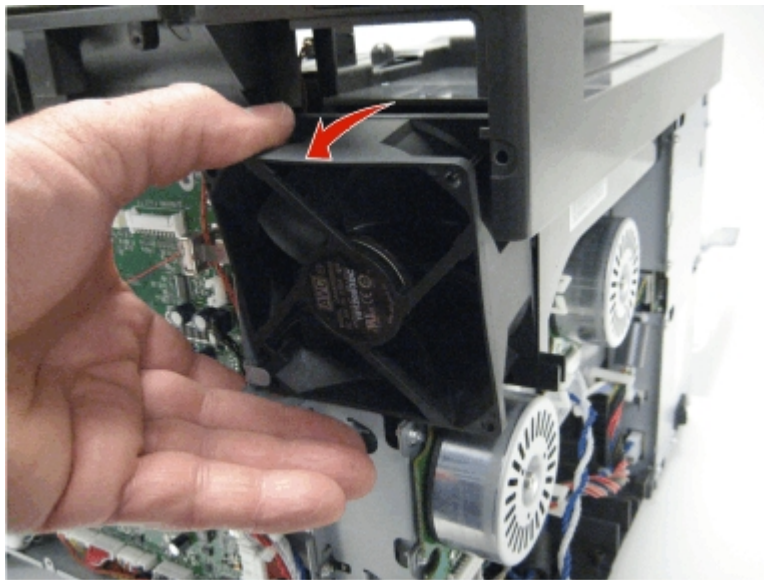
1. Remove the rear cover. See [Rear cover removal](#).
2. Remove the left cover assembly. See [Left cover removal](#).
3. Remove the MFP cable cover. See .
4. Disconnect the system fan cable from the controller board.

Parts Removal

5. Remove the two screws (A).

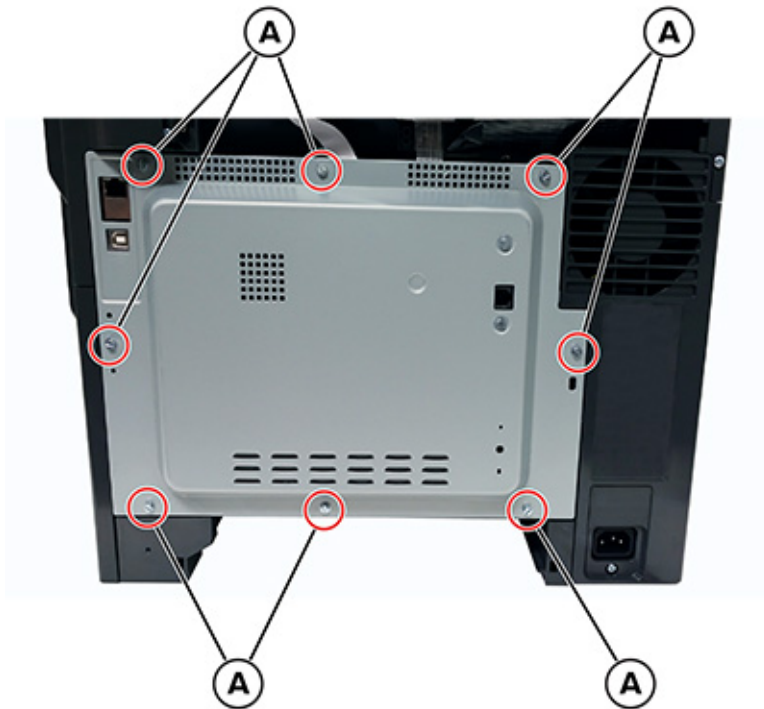


6. Detach the fan.



Rear Cover Removal

1. Remove the eight screws (A).



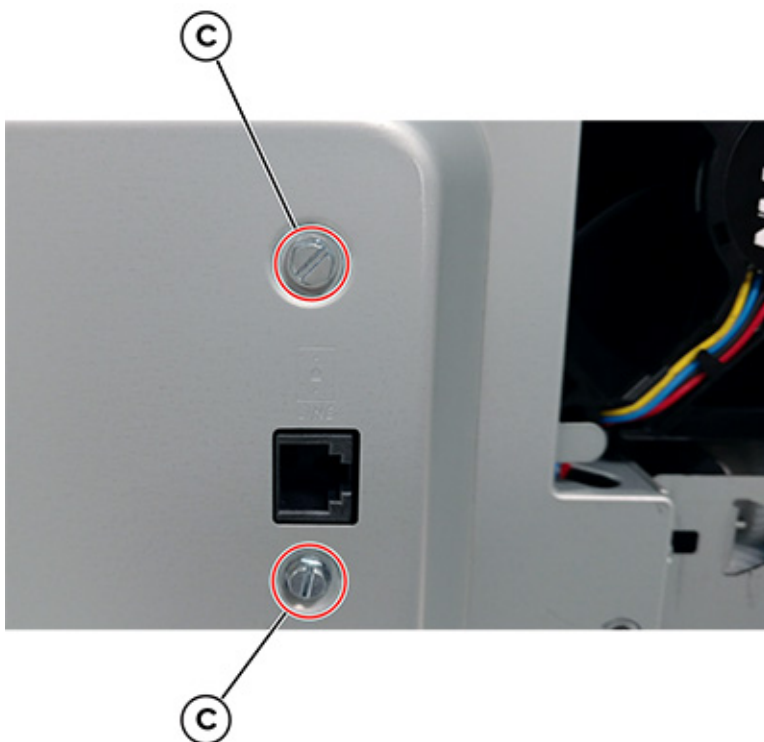
2. Slowly tilt back the cover to avoid damaging the fax card, cable, or controller board.

Parts Removal

3. Disconnect the cable (B).

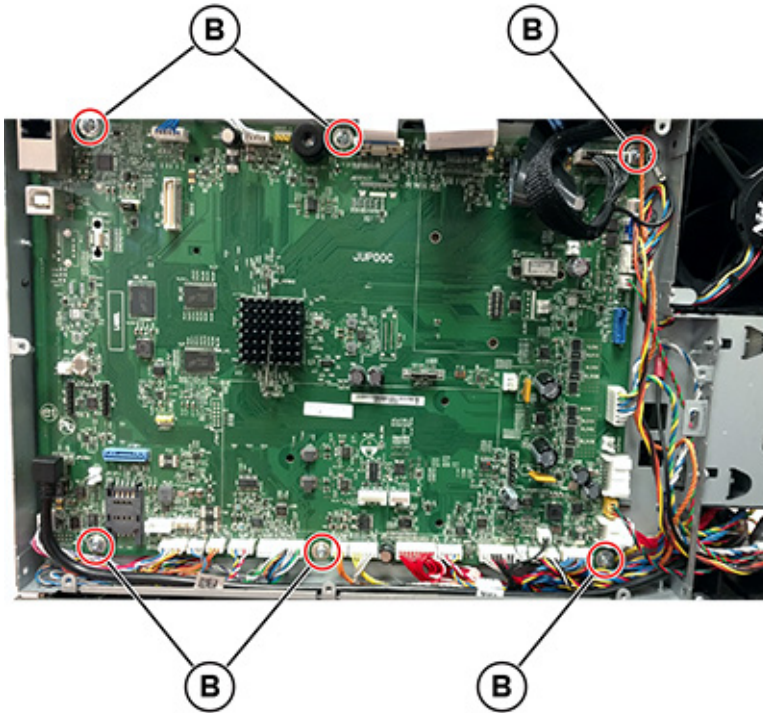


4. Remove the two screws (C), and then remove the fax card from the cover.




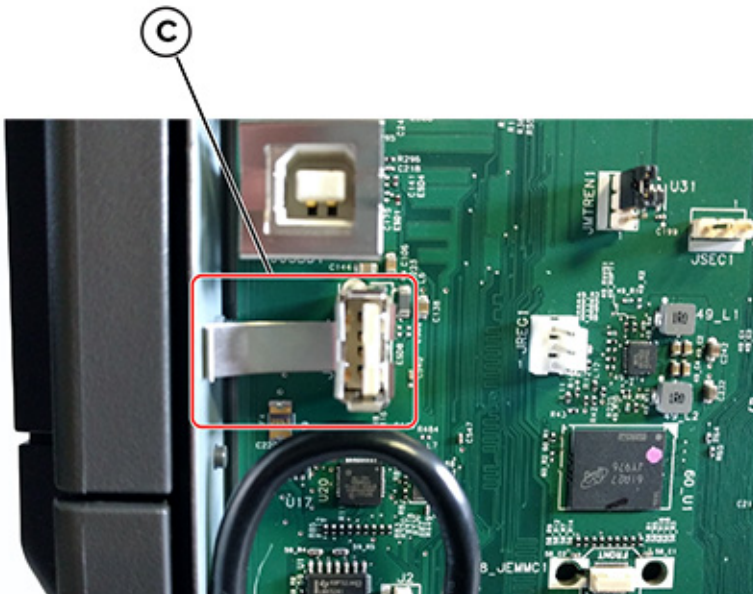
Parts Removal


4. Remove the six screws (B).



5. Remove all USB ground clips (C) from the USB connectors, and then remove the controller board.

 **Note:** Do not lose the ground clips. They will be used on the new controller board.

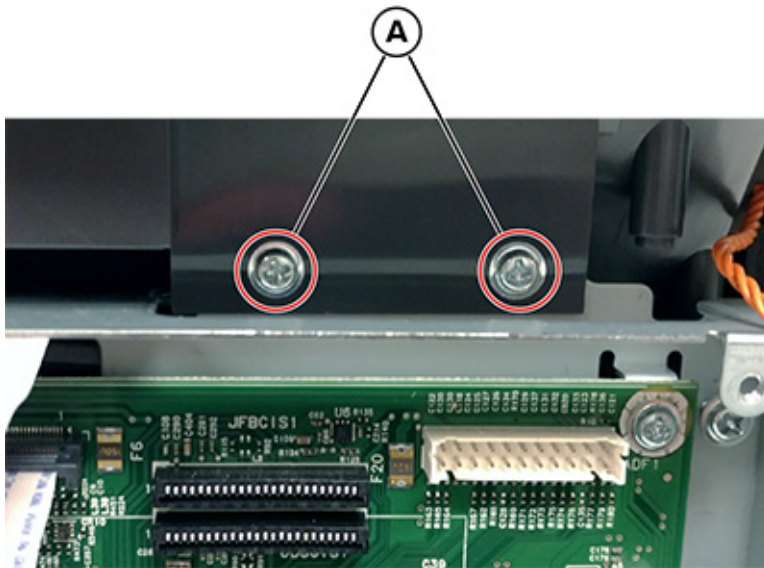


 **Note:** Installation note: Perform the printhead registration and alignment. See [Registration adjustment](#).

Top Side Removals

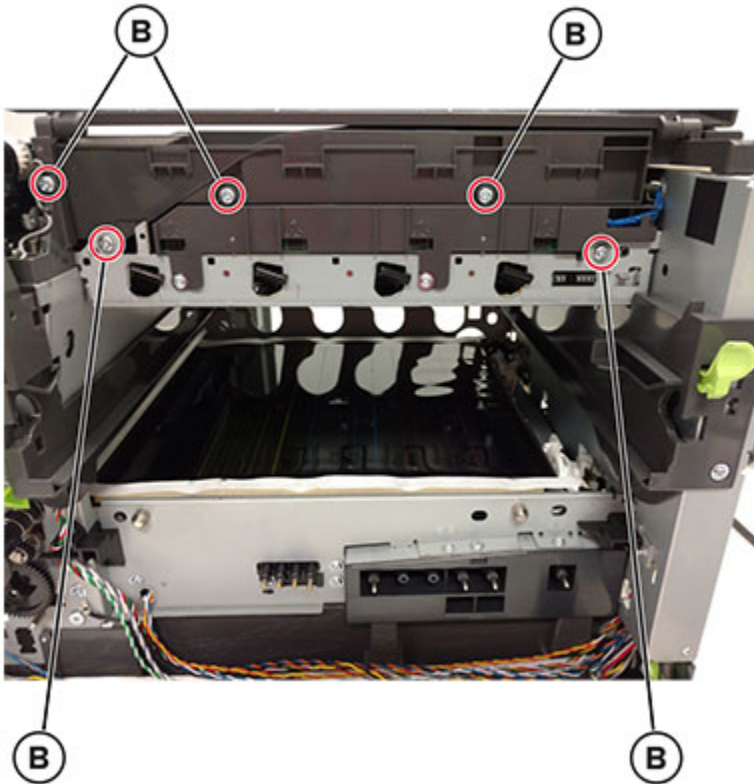
Top Cover Removal

1. Remove the rear cover. See [Rear cover removal](#).
2. Remove the flatbed scanner assembly. See [Flatbed Scanner Assembly Removal](#).
3. Remove the two screws (A).

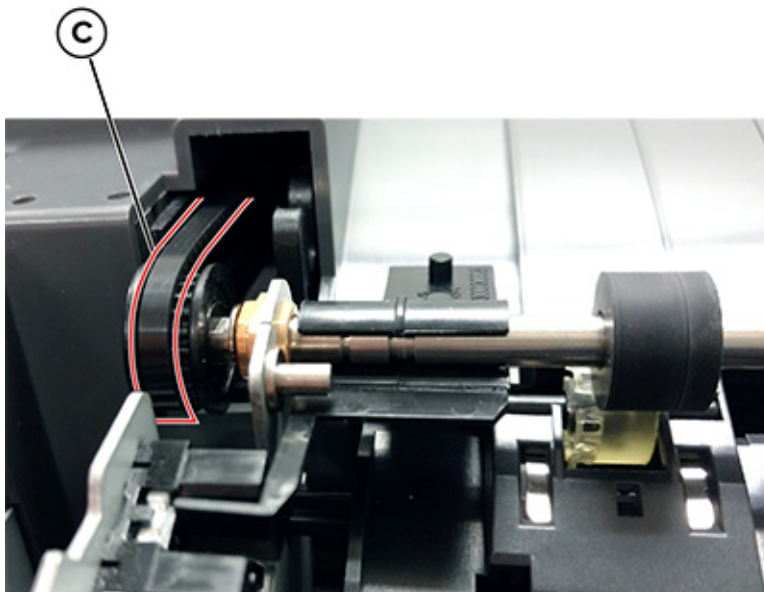


Parts Removal

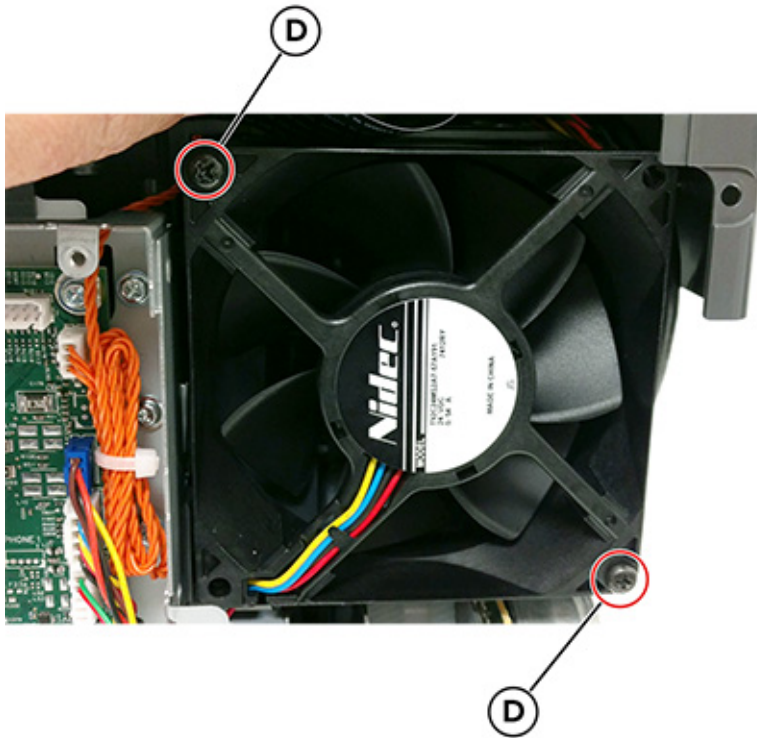
4. Remove the five screws (B).



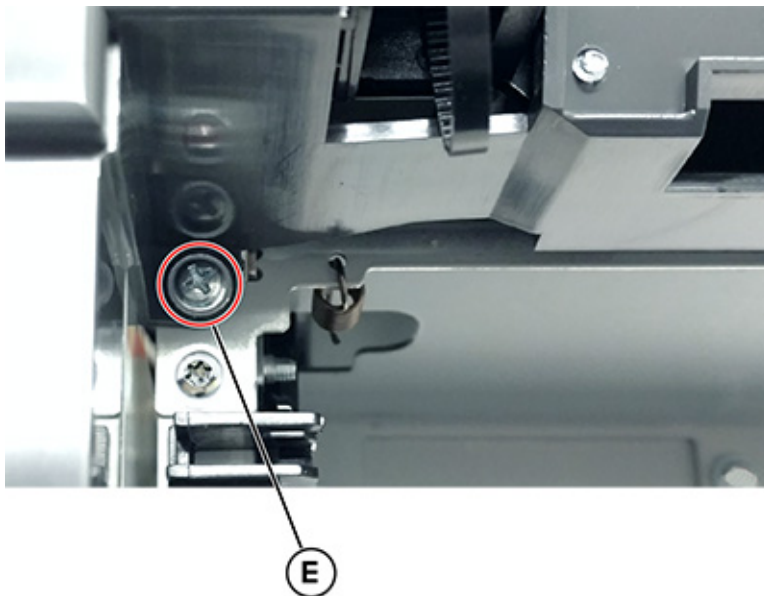
5. Remove the belt (C).



6. Remove the two screws (D), and then remove the fan.

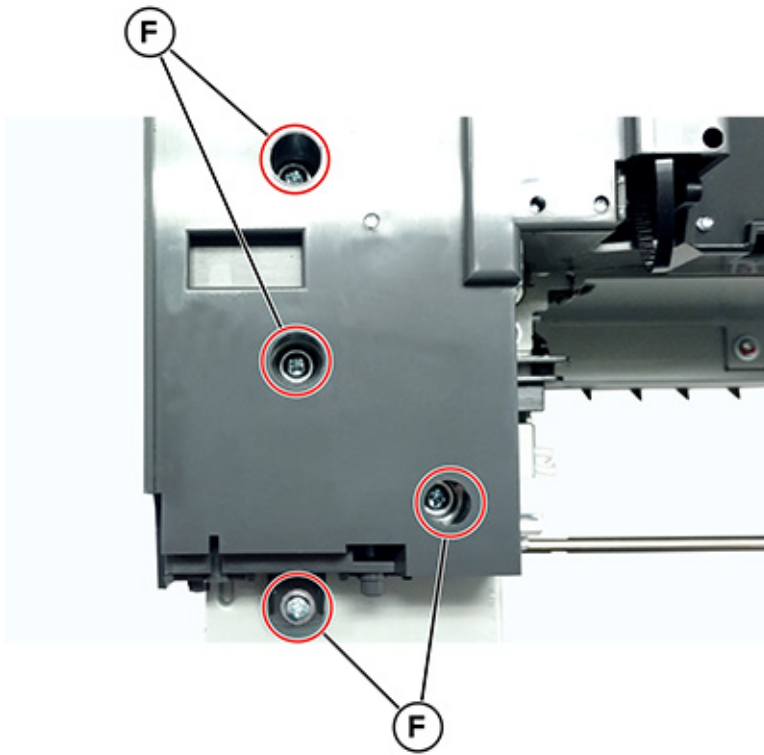


7. Disconnect the bin full sensor cable from the JBIN2 connector on the controller board.
8. Remove the screw (E).

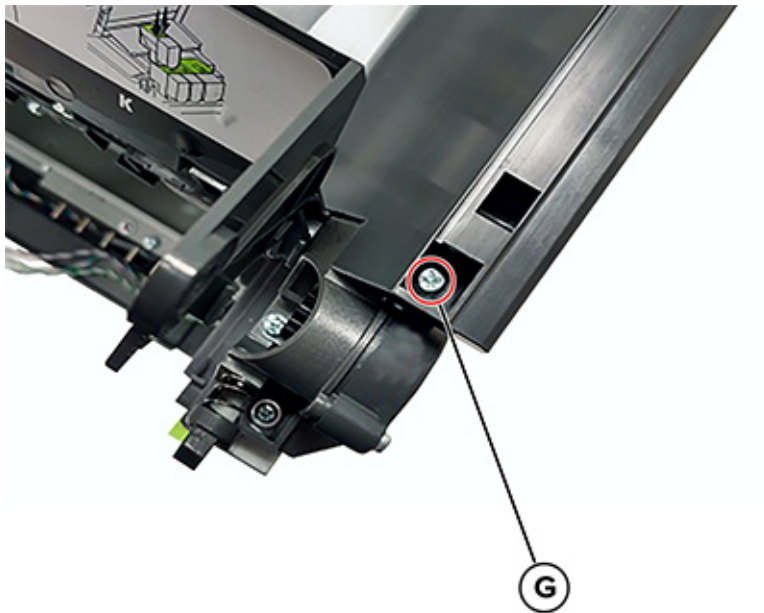


Parts Removal

9. Remove the four screws (F).



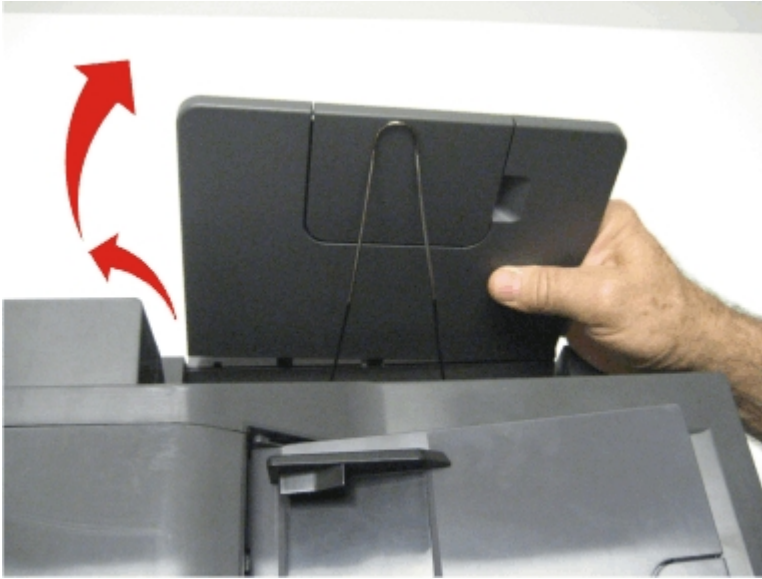
10. Remove the screw (G), and then remove the cover.



Output Bin and Paper Bail Removal

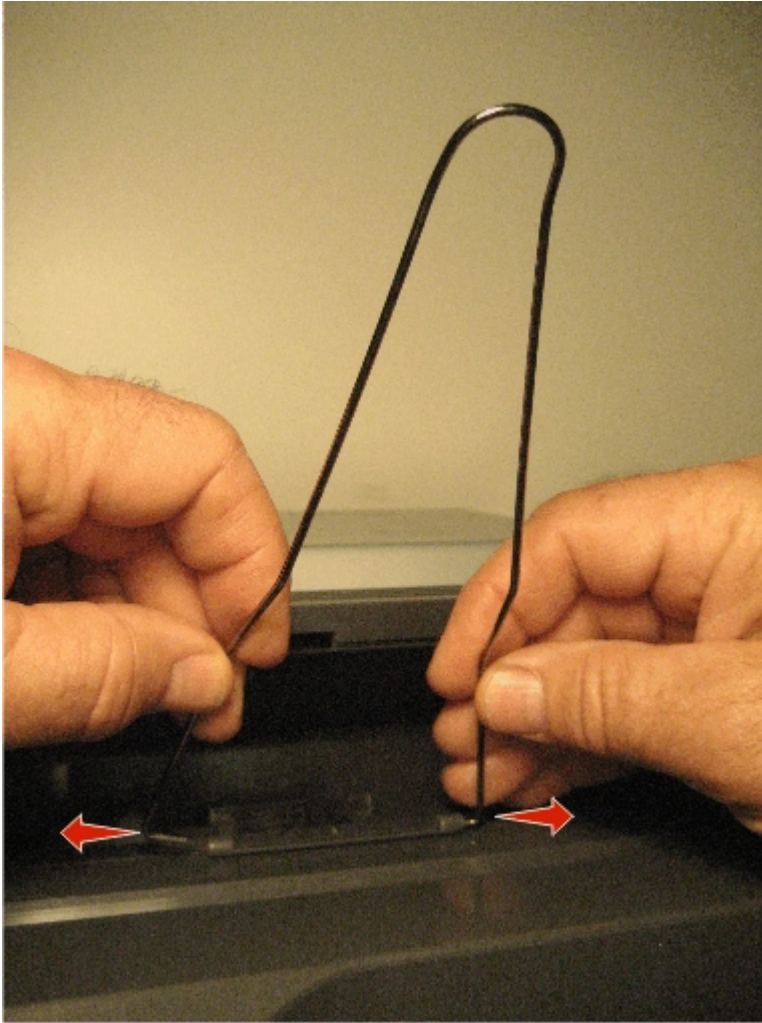
1. Rotate the output bin forward.

2. Lift, and then pull out the bin to remove.



Parts Removal

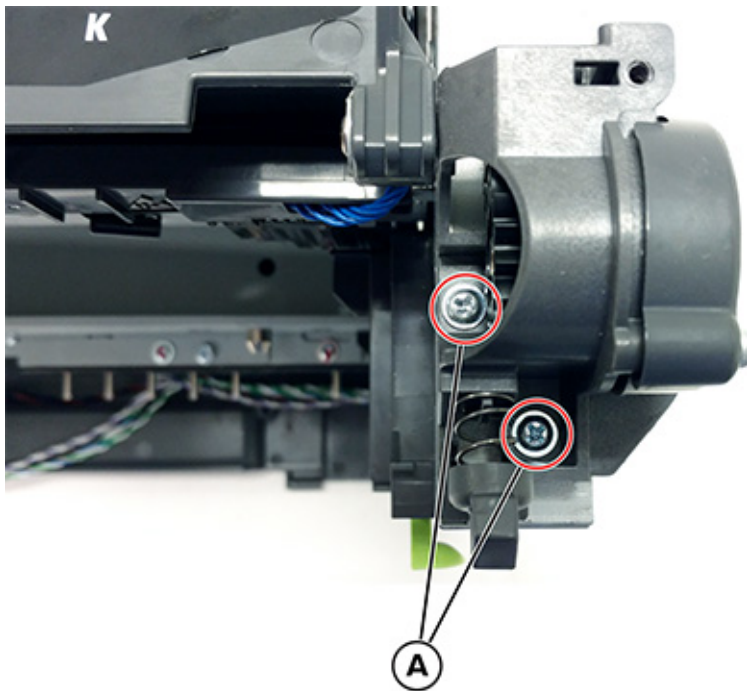
3. Pull apart the legs of the paper bail, and then lift to remove.



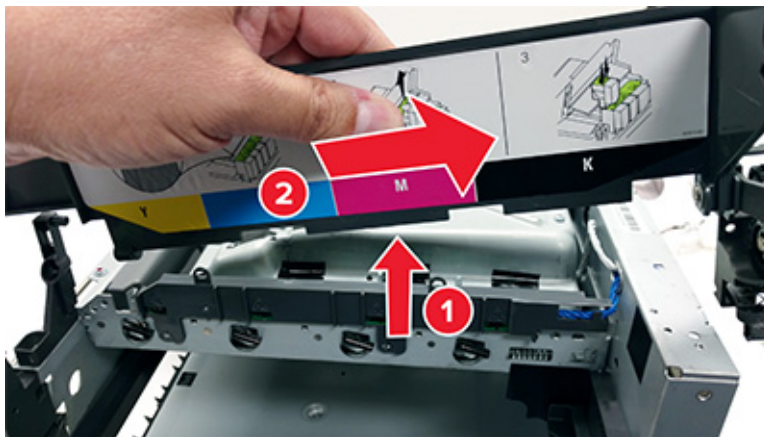
MFP Toner Cover Removal

1. Remove the top cover. See [Top Cover Removal](#).

2. Remove the two screws (A).

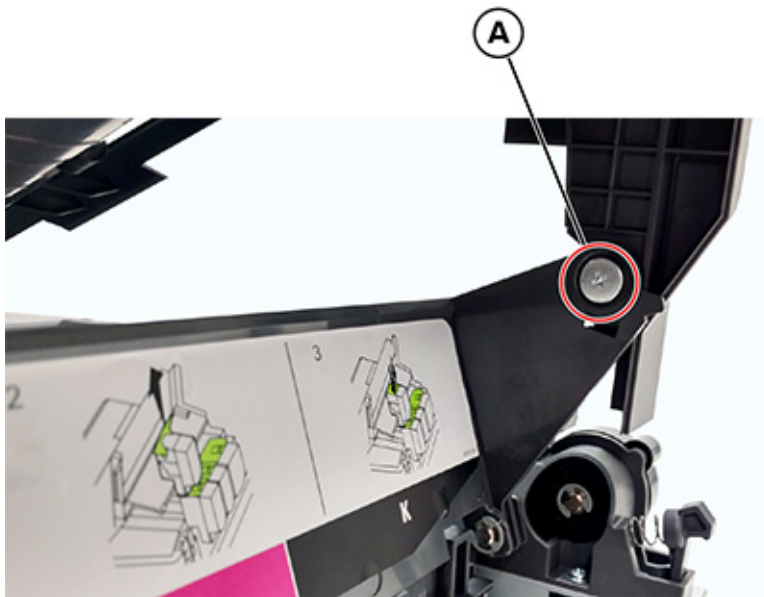


3. Remove the toner cover.

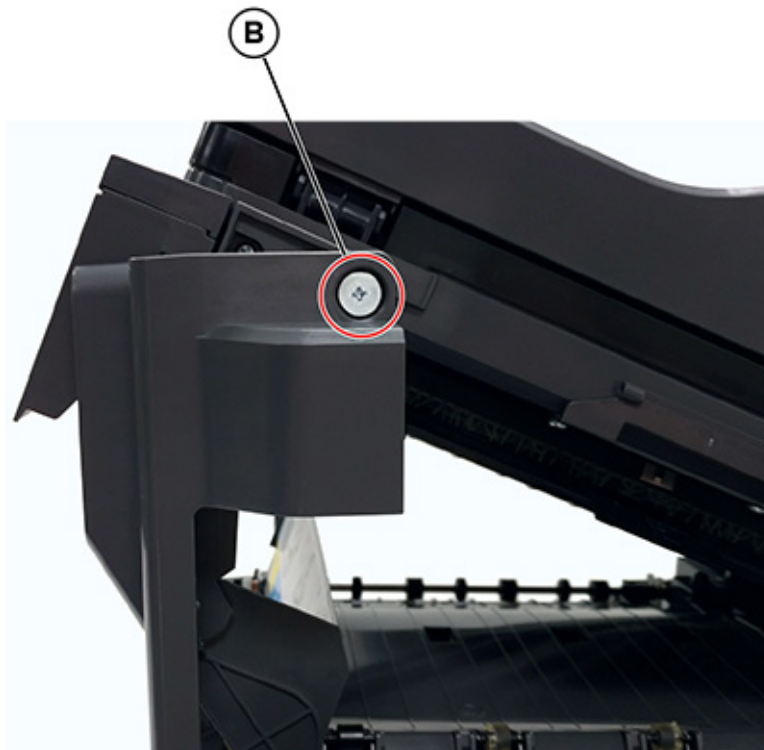


MFP Link Removal

1. Raise the flatbed, and then remove the screw (A).

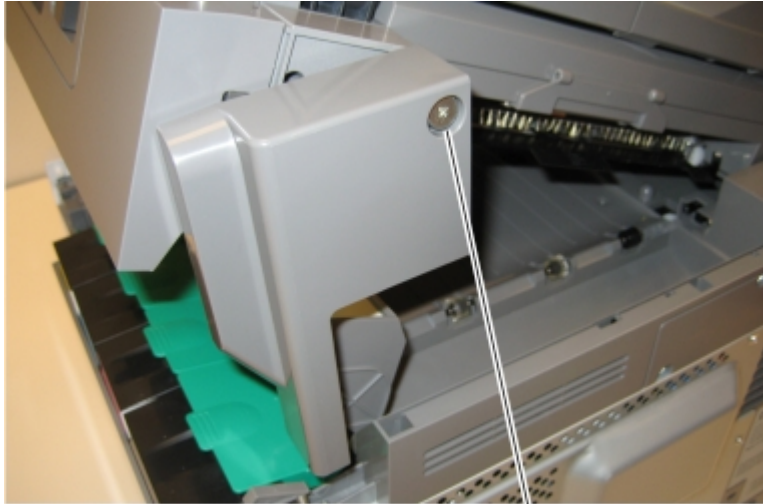


2. Return the flatbed to the down position, remove the screw (B), and then remove the AIO link.



Release Lever Removal


1. Remove the right scanner cover. See [Scanner Right Cover Removal](#).
2. Remove the screw (A).



3. Disengage the AIO link from the flatbed unit.
4. Remove the screw (B).

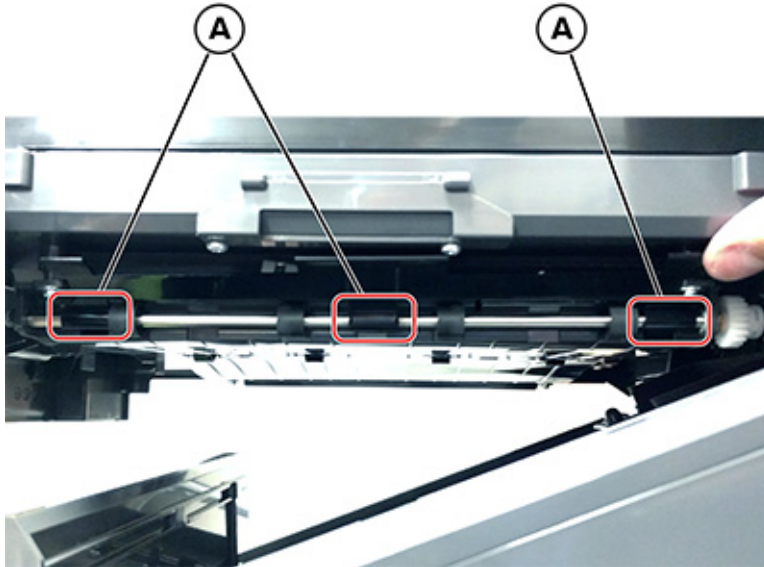


5. Slide the lever to the rear of the flatbed.
6. Remove the spring, and then remove the lever.

 **Note:** Installation note: When reinstalling the lever, place the lever on the flatbed, and then insert the spring before replacing the screw.

Bin Full Flag Removal

1. Raise the flatbed.
2. Disconnect the three latches (A) from the rear shaft of the redrive unit, and then remove the flag.



 **Note:** Installation note: Install the latch on the left side first.

MFP Fuser Deflector Flag Removal


1. Open the front door.
2. Remove the MFP fuser deflector flag (A) from the shaft.

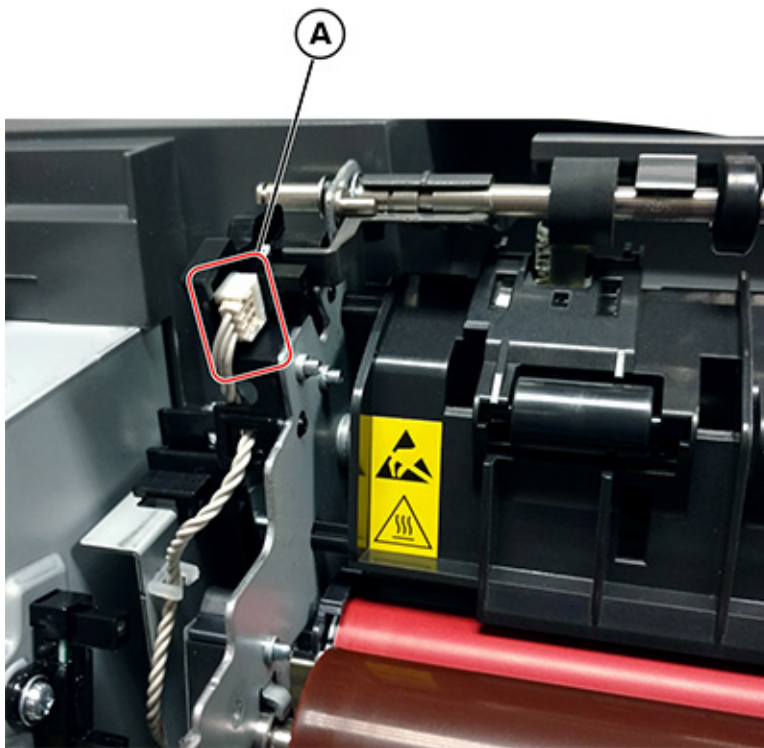


Sensor (Narrow Media) Removal

1. Open the front door.

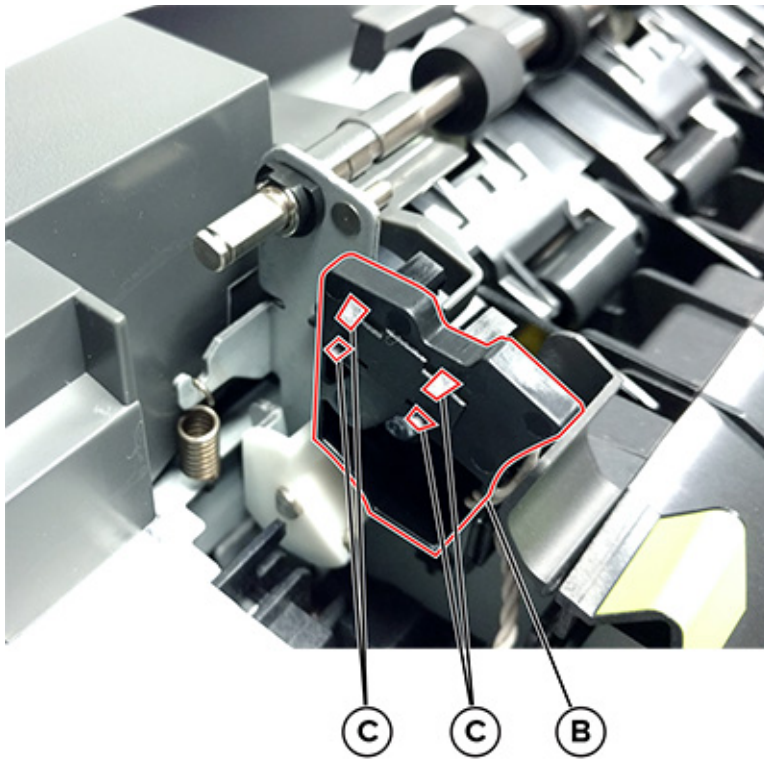
2. Remove the cable (A) from its retainer, and then disconnect it.

 **Note:** Installation note: Pay attention to the cable routing.



Parts Removal

3. Remove the sensor retaining plate (B), and then pinch the four latches (C) to remove the sensor.



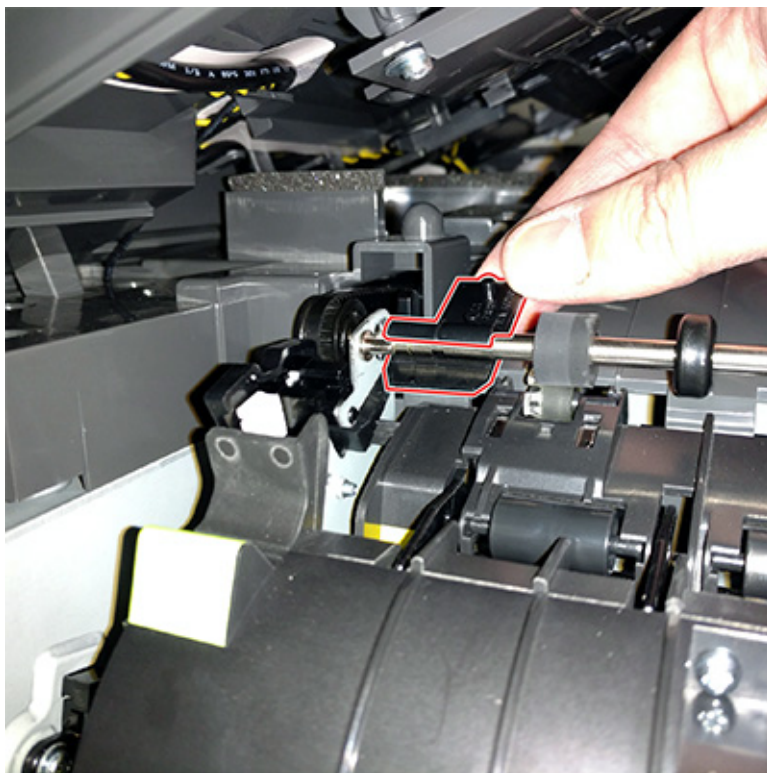
Installation notes:


- Clean the contact surface where the sensor retaining plate was removed before installing the new sensor.
- Guide the latches that hold the sensor to the bracket.
- Squeeze the latches together until they latch to the frame.
- Remove the backing from the new sensor retaining plate, and then place the plate on the surface between the sensor mounting legs.
- Reconnect the cable, and then guide the cable through its retainer.

Narrow Media Sensor Flag Removal

1. Raise the scanner assembly.
2. Open the front door.

3. Push up on the tab to release the flag, and then remove it.



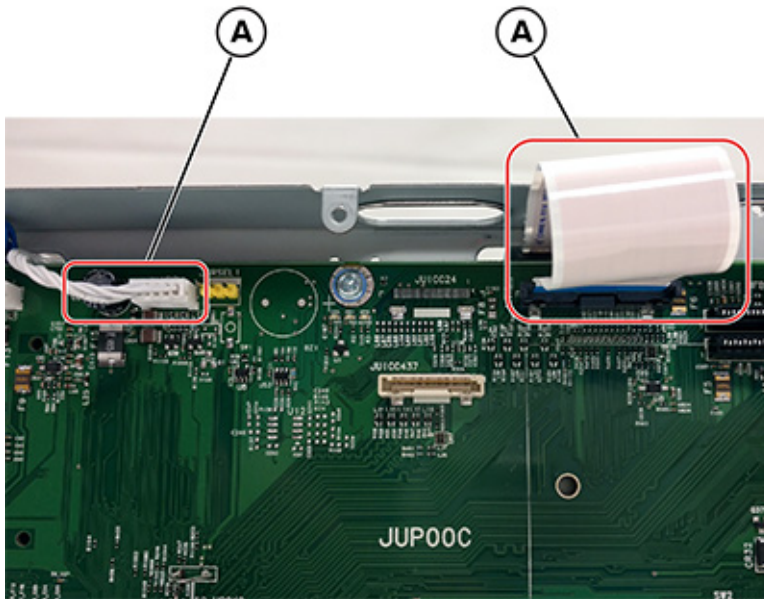
 **Note:** Be careful not to dislodge the sensor. The flag must be installed on the fuser while the fuser is out.

Printhead Removal

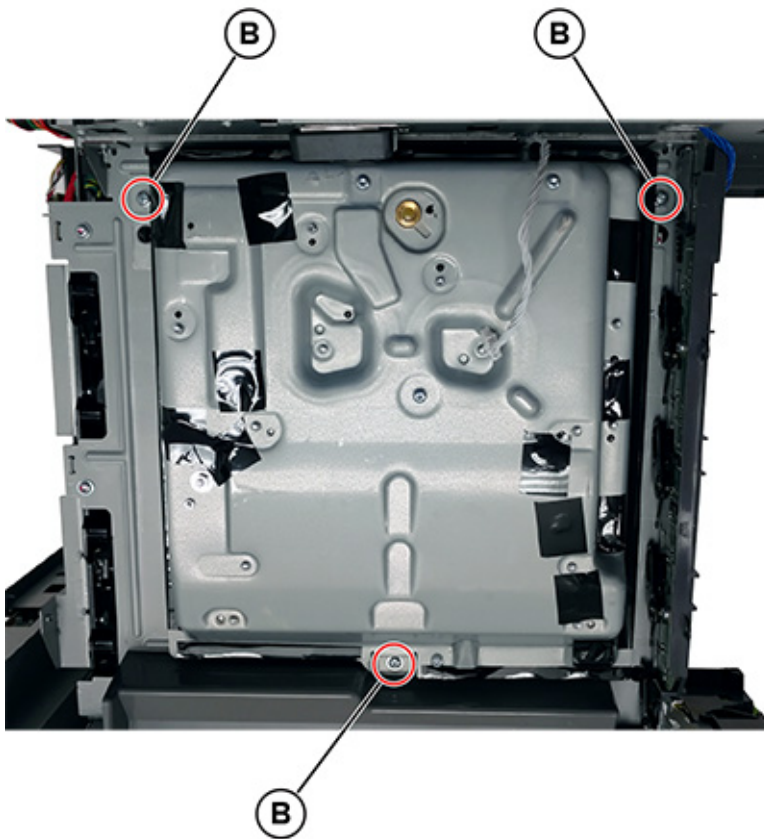
1. Remove the rear cover. See [Rear cover removal](#).
2. Remove the top cover. See [Top Cover Removal](#).


Parts Removal

3. Disconnect the two cables (A).



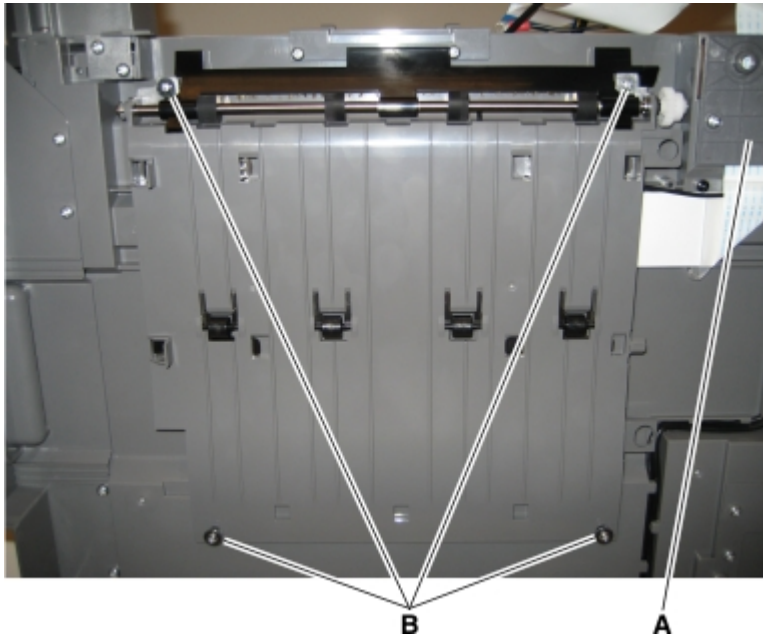
4. Remove the three screws (B), and then remove the printhead.



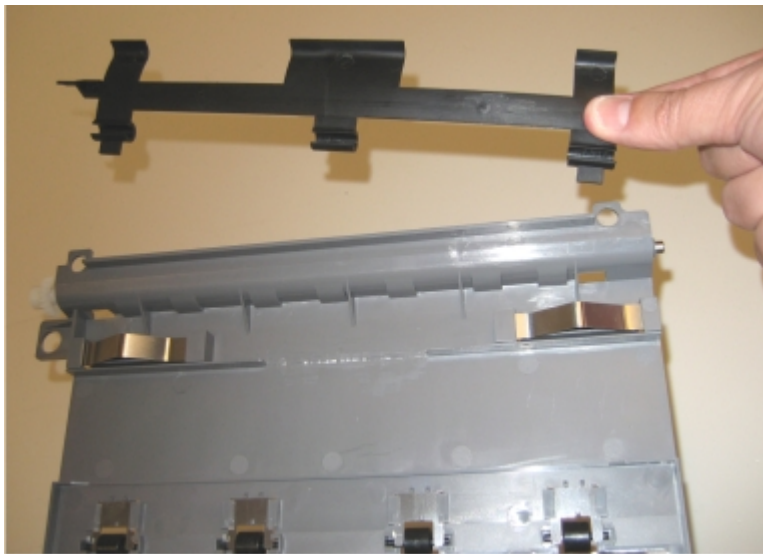
 **Note:** Installation note: Make sure to perform the registration adjustments after replacing the printhead. See [Registration adjustment](#).

Redrive Unit Removal

1. Remove the flatbed scanner assembly. See [Flatbed Scanner Assembly Removal](#).
2. Place the flatbed facedown.
3. Remove the cable cover plate (A), and then remove the four screws (B).



4. Remove the bin full sensor flag from the rear shaft.

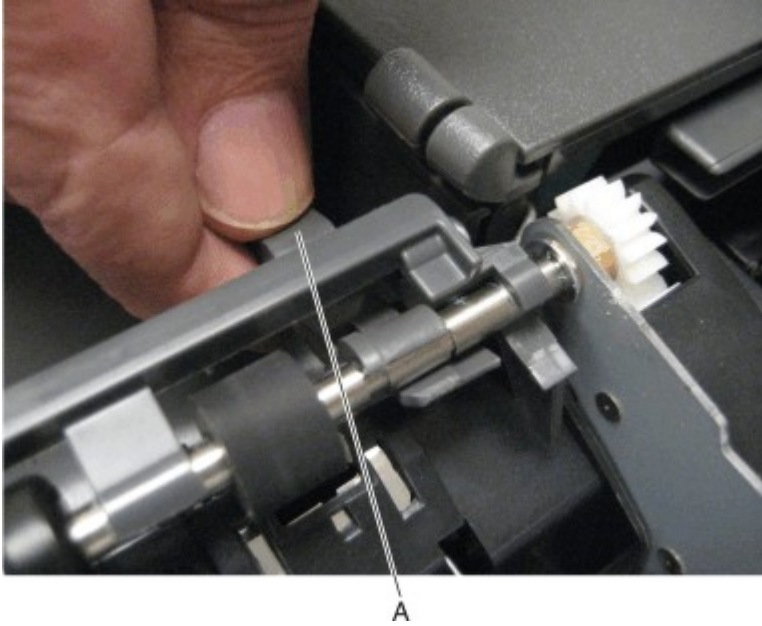


Installation notes:

- Using a short #2 Phillips screwdriver, the redrive unit can be replaced by disconnecting the AIO link at the flatbed and lifting the flatbed just enough to access the left side screws.
- Be careful not to stress the cables in the left rear hinge.

Right Output Bin Deflector Removal

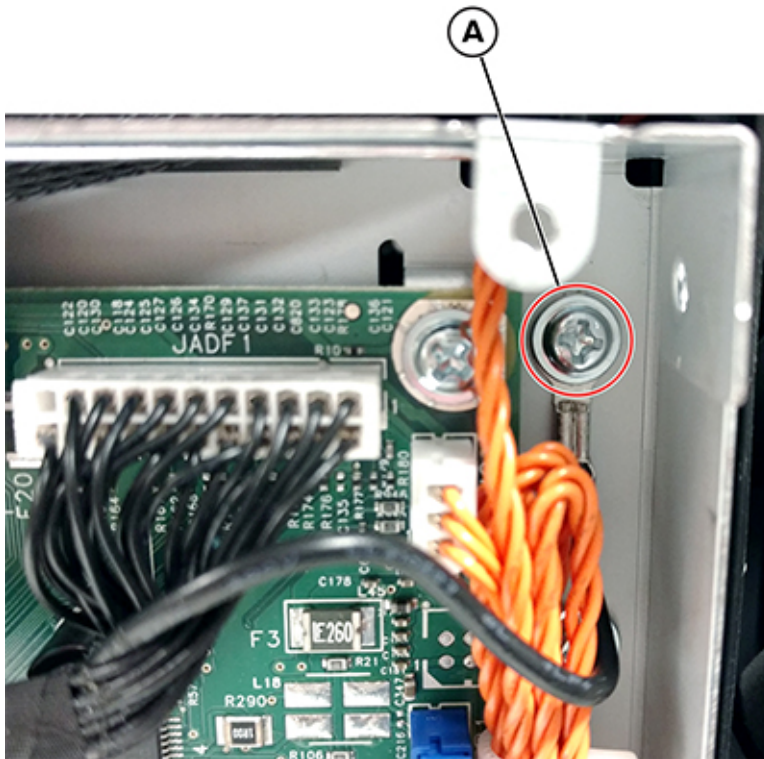
1. Open the front door.
2. Remove the deflector (A).



ADF/Scanner Removals

ADF Assembly Removal (SADF/RADF)

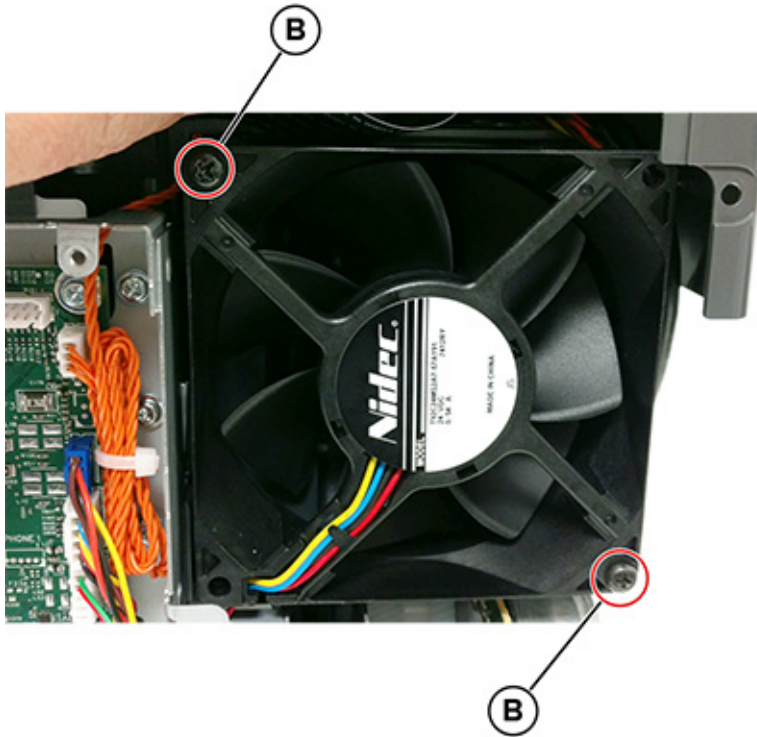
1. Remove the output bin. See [Output Bin and Paper Bail Removal](#).
2. Remove the rear cover. See [Rear cover removal](#).
3. Remove the AIO cable cover. See .
4. Remove the screw (A).



5. Disconnect the JADF1 cable from the controller board.

Parts Removal

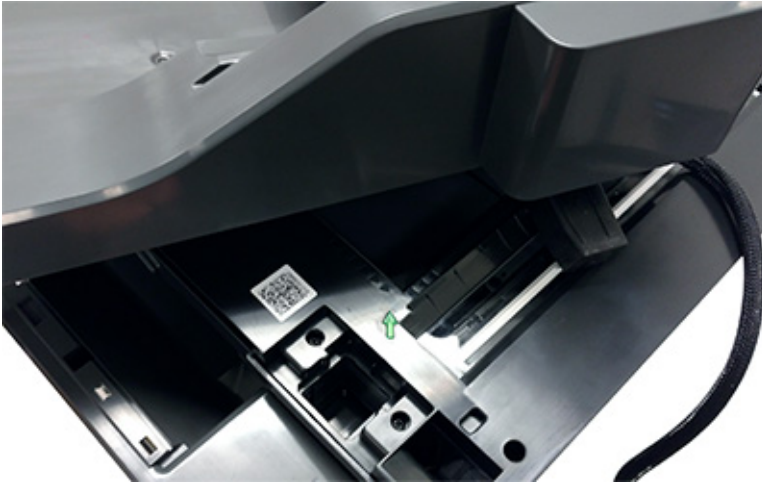
6. Remove the two screws (B), and then set the fan below the cable path.



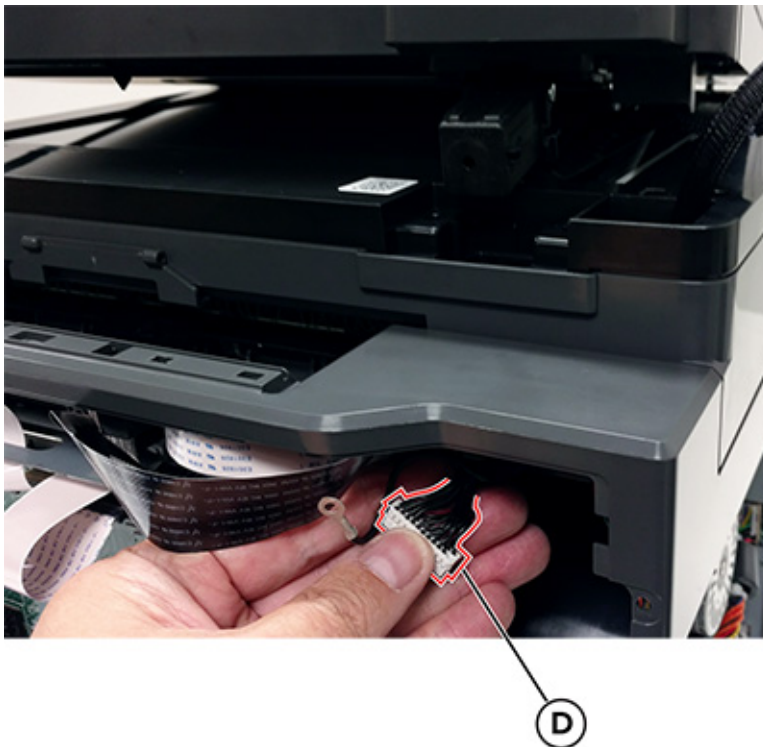
7. Lift the ADF assembly, and then thread the ADF cable (C) to create some slack.




- Carefully lift the ADF hinges out of the flatbed, and then set the ADF on the flatbed.



- Feed the ADF cable (D) through the top cover and flatbed.



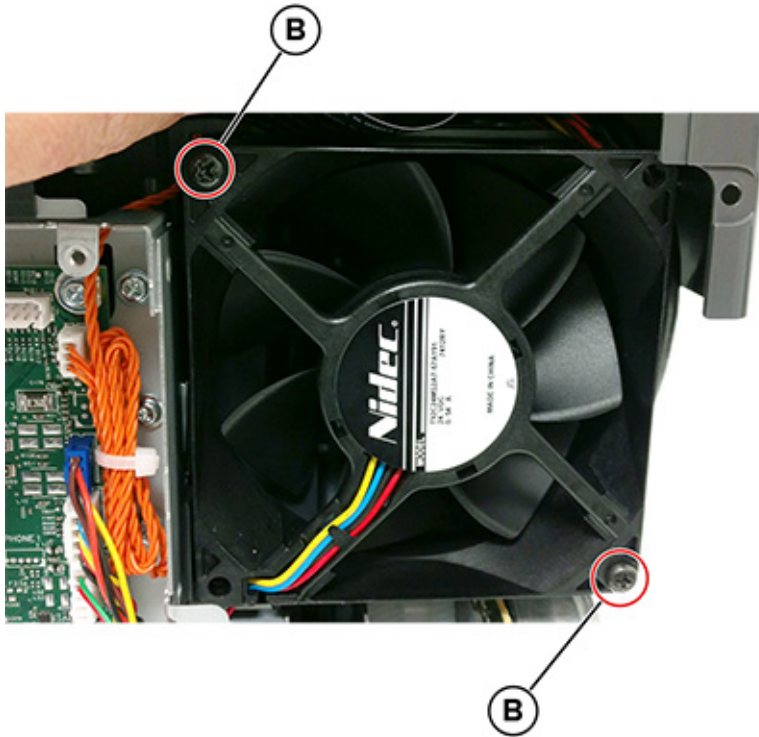
- Lift, and then remove the ADF assembly.

 **Note:** Installation note: After replacing the ADF assembly, perform the scanner manual registration, ADF registration adjustment, and scanner calibration reset. See , [ADF Registration Adjustment](#), and .

ADF Assembly Removal (DADF)


- Remove the output bin. See [Output Bin and Paper Bail Removal](#).

6. Remove the two screws (B), and then set the fan below the cable path.




Parts Removal

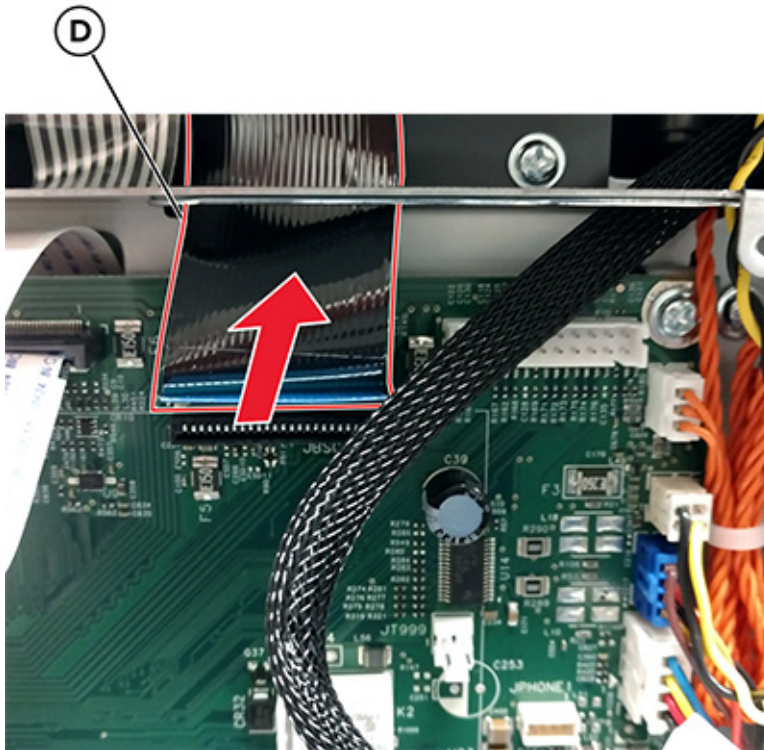
7. Disconnect the cable (C), route it through the top of the controller board cage, and then move it out of the way to access to the CIS cable.

 **Note:** Make sure to remove the tape securing the cable, and then remove the toroid from the cable.



8. Disconnect the cable (D), and then route it through the top of the controller board cage.

 **Note:** Make sure to remove the tape securing the cable, and then remove the toroid from the cable.

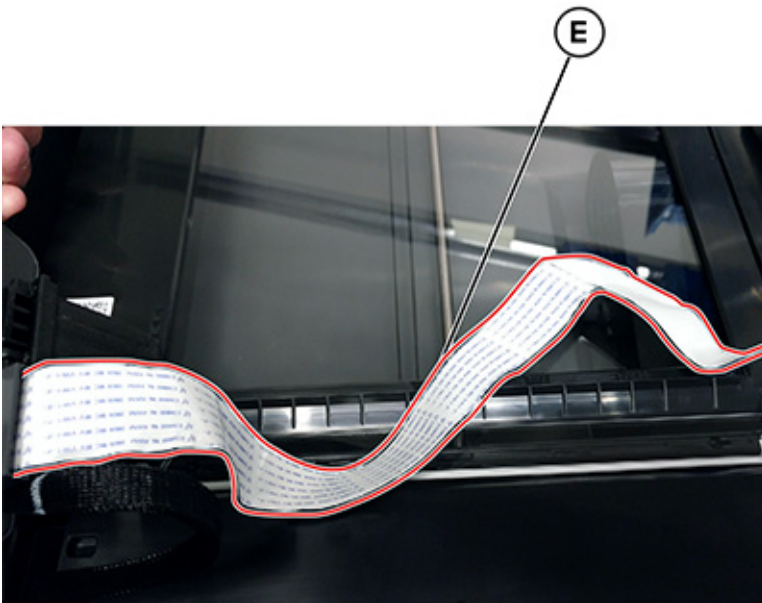
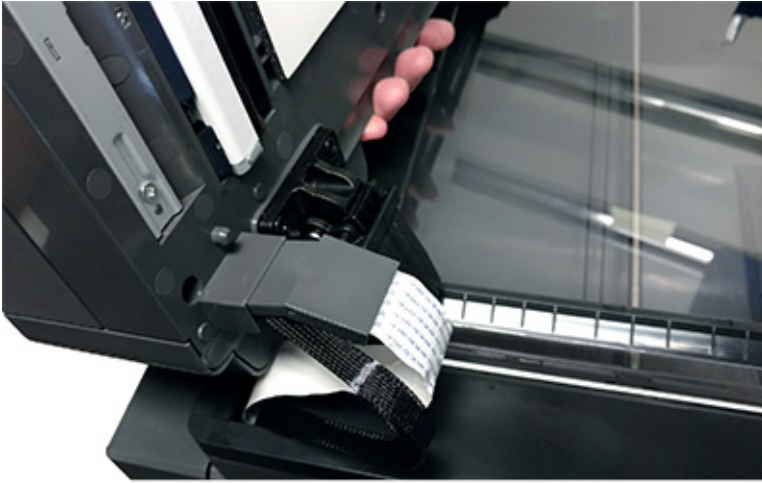


9. Tilt the ADF module up, and then slowly lift it up from the flatbed module until there is resistance from the left and right flatbed hinges.
10. Hold the ADF module at the lower corner and at the CIS cable guide, and then pull up on the module to disengage the left and right ADF hinges.

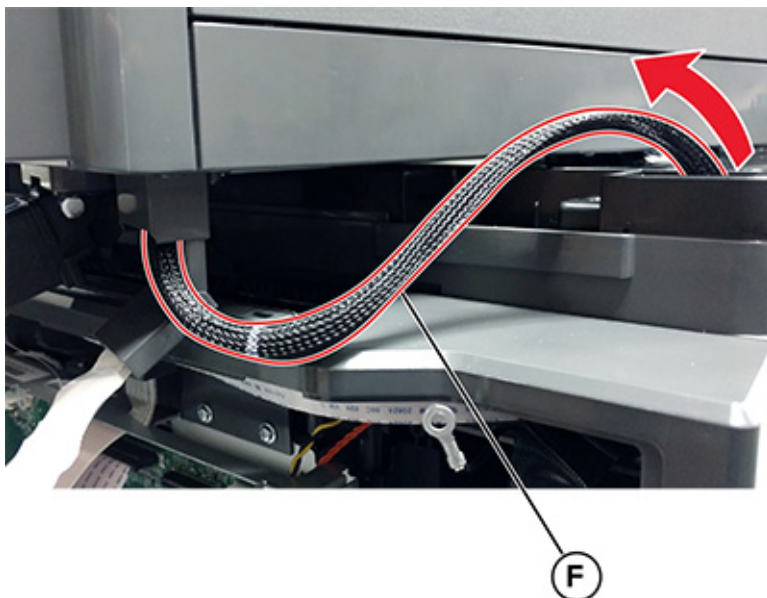


Parts Removal

11. Set the ADF module on the flatbed, and then route the CIS cable (E) through the flatbed.



12. Route the cable (F) through the flatbed.

**Installation notes:**

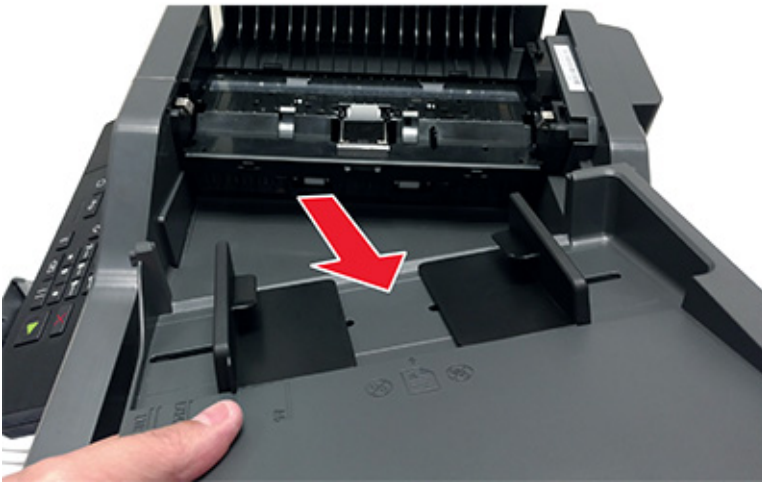
1. Install the black CIS cable into the top connector first, and then install the white flatbed cable into the bottom connector.
2. After replacing the ADF assembly, perform the scanner manual registration, ADF registration adjustment, and scanner calibration reset. See , [ADF Registration Adjustment](#), and .

ADF Tray Removal

1. Open the ADF door.

Parts Removal

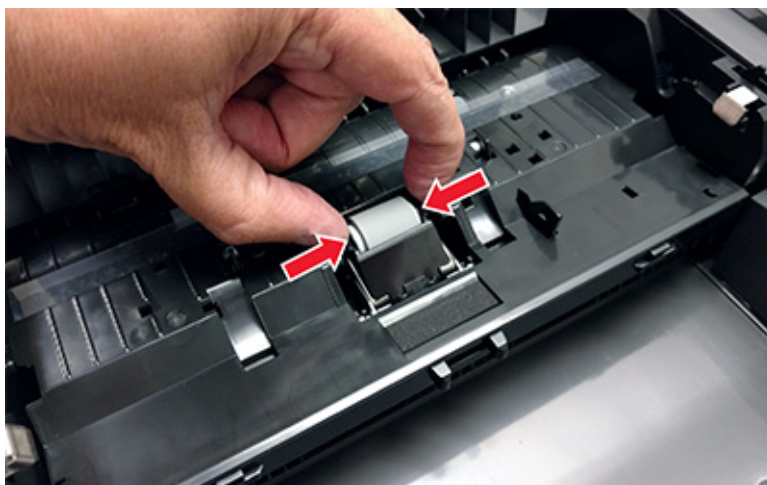
2. Release the left latch, and then remove the tray.



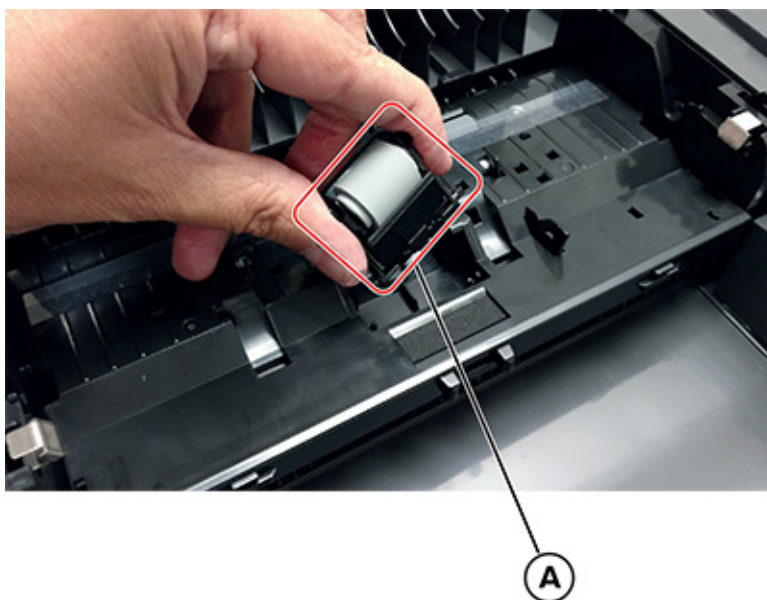
ADF Separator Roller Removal

1. Open the ADF door.

2. Pinch the two latches.



3. Rotate the roller (A) upward to align its housing with the slots, and then remove it.

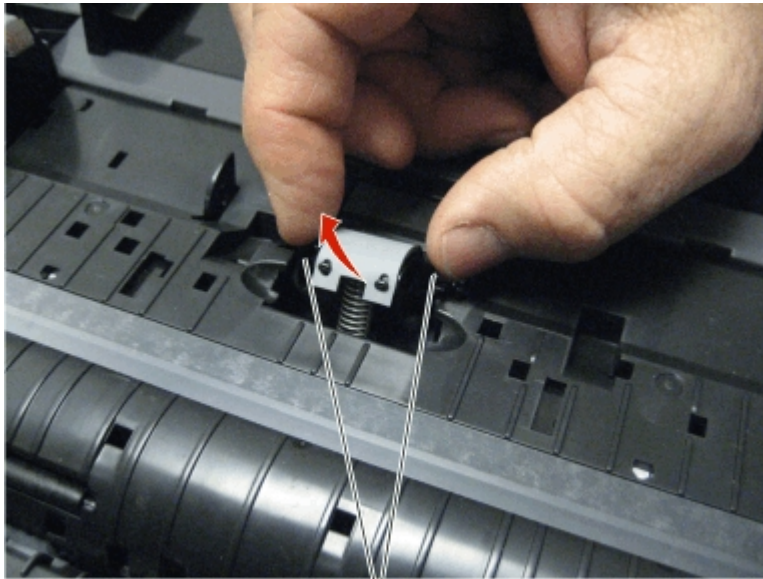


ADF Separator Pad Removal

1. Open the ADF door.

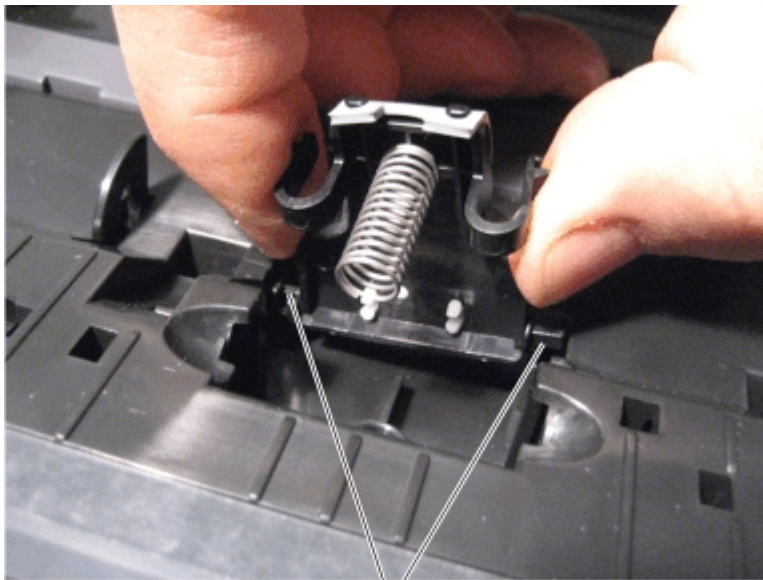
Parts Removal

2. Pinch the retaining tabs (A), and then rotate the ADF separator roller to the vertical position.



A

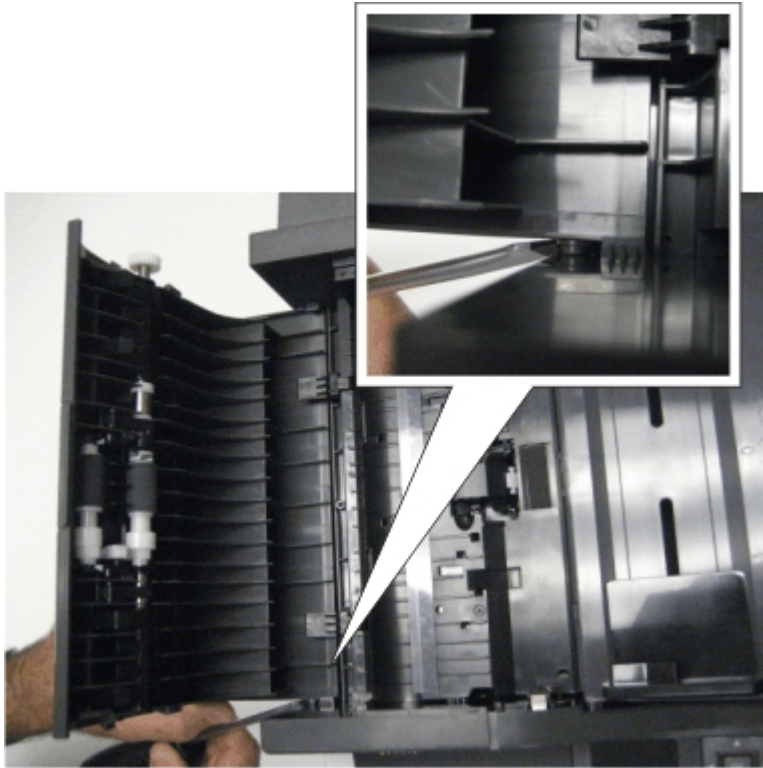
3. Detach the two tabs (B), and then remove the separator pad.



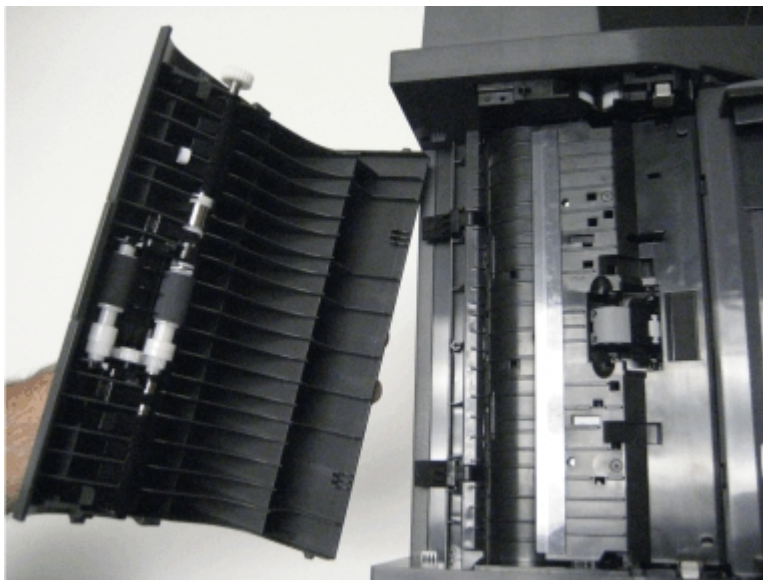
B

ADF Door Removal

1. Detach the ADF door.



2. Remove the ADF door.

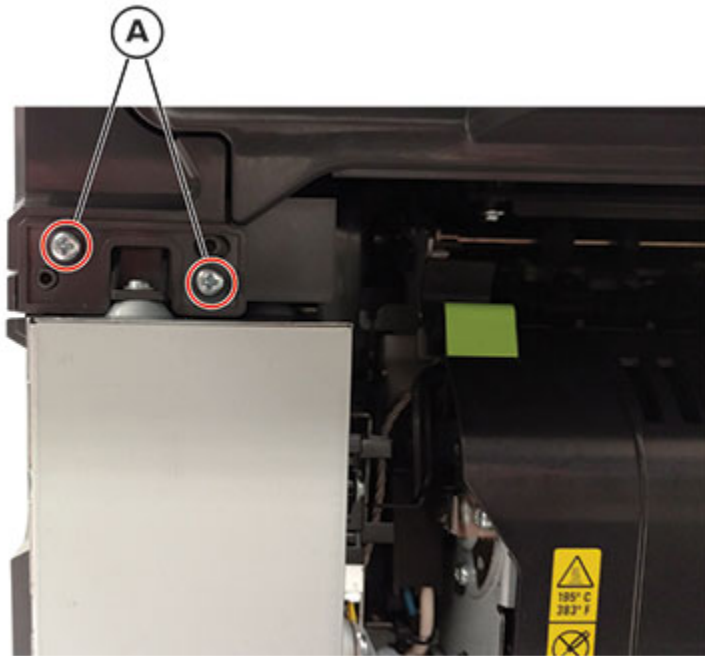


Scanner Front Cover Removal

1. Open the front door.

Parts Removal

2. Remove the two screws (A).



3. Raise the flatbed, and then remove the screw (B).



4. Detach the MFP link from the MFP toner cover.



5. Put the MFP toner cover in the down position.

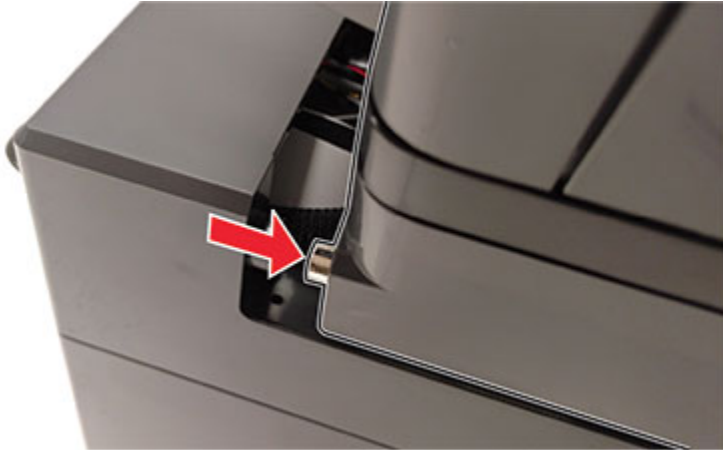


6. Press the release button, move the MFP link to the scanner in the down position, and then lower the scanner.




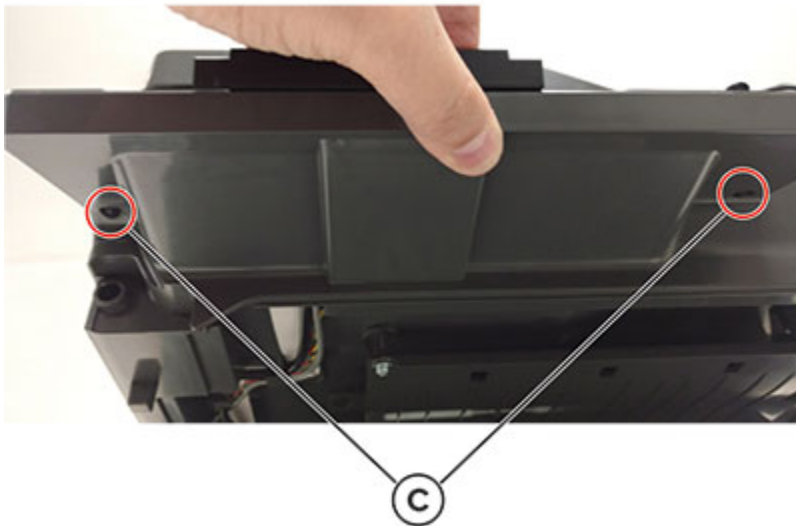
Parts Removal

7. Push the scanner assembly forward.



8. Remove the two screws (C), and then remove the cover.

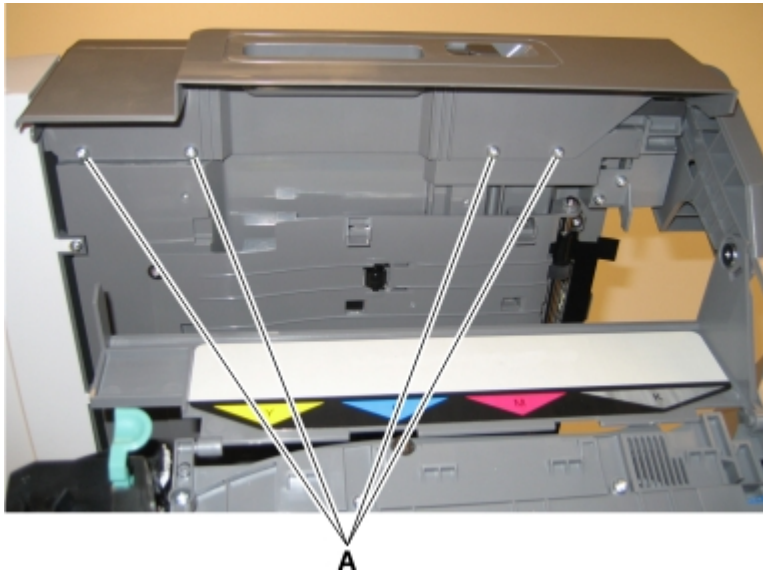
 **Warning:** Be careful not to damage the tabs on the cover.



Scanner Right Cover Removal

1. Remove the imaging kit. See [Imaging kit removal](#).

2. Raise the flatbed, and then remove the four screws (A).



Parts Removal

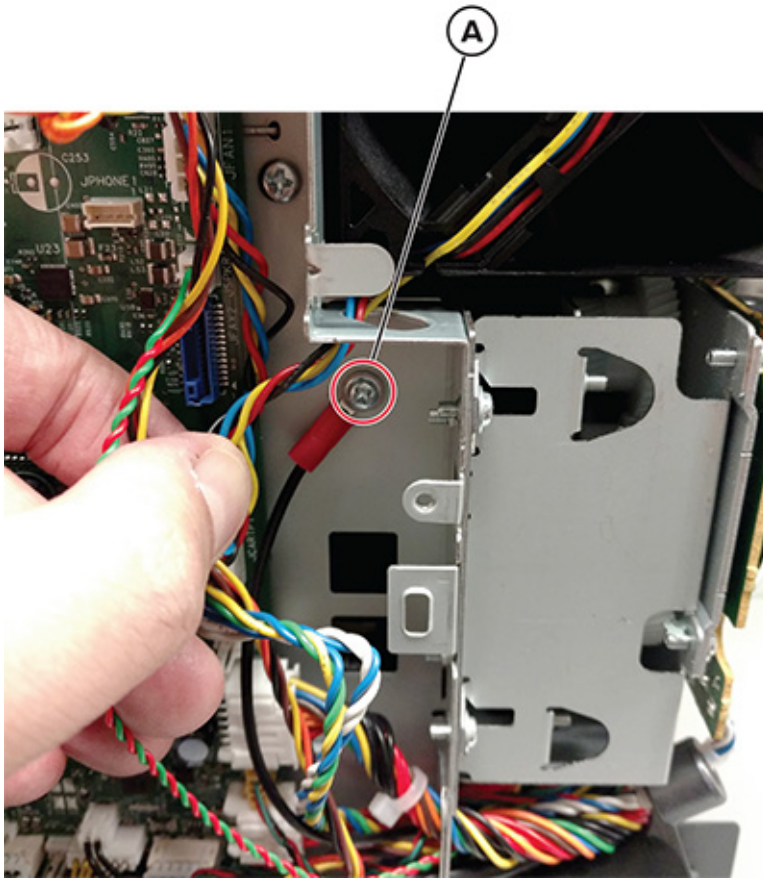
3. Place the flatbed in the down position, raise the ADF, and then remove the scanner right cover.



Flatbed Scanner Assembly Removal

1. Remove the MFP cable cover. See .
2. Remove the rear cover. See [Rear cover removal](#).
3. Remove the left cover. See [Left cover removal](#).
4. Remove the ADF assembly. See [ADF Assembly Removal \(DADF\)](#) or [ADF Assembly Removal \(SADF/RADF\)](#).

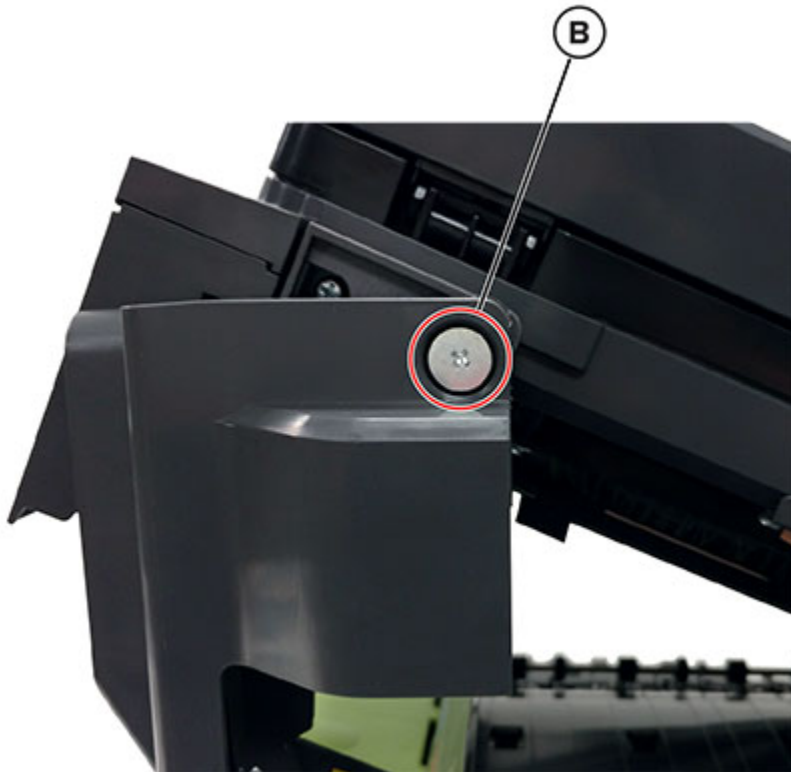
5. Remove the flatbed ground screw (A).



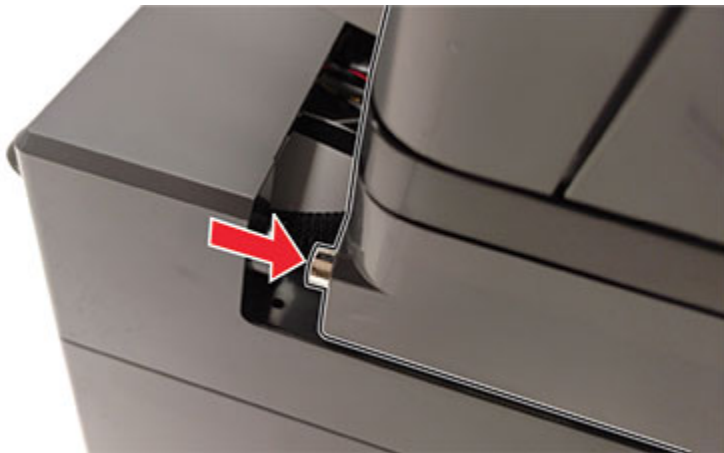
6. Disconnect the following cables from the controller board:
 - CIS ribbon cable (JFBCIS1)
 - USB cable (JFUSB1)
 - Control pane cable (JUICC24 and JUICC43)
 - Flatbed motor cable (JFB1)
 - Rear output bin full cable (JBIN2)
 - Flatbed home sensor cable (JHS1)
7. Remove the two screws securing the fan, and then place the fan on the side.
8. Route the flatbed cables to the left side of the printer.

Parts Removal

9. Raise the flatbed, and then remove the screw (B).

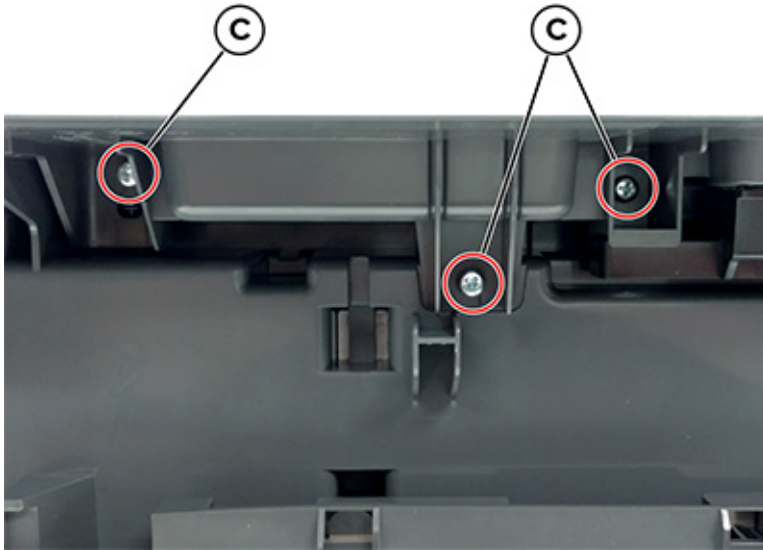


10. Remove the flatbed pivot link (front left). See [Flatbed Pivot Link \(Front Left\) Removal](#).
11. Push the scanner assembly forward.

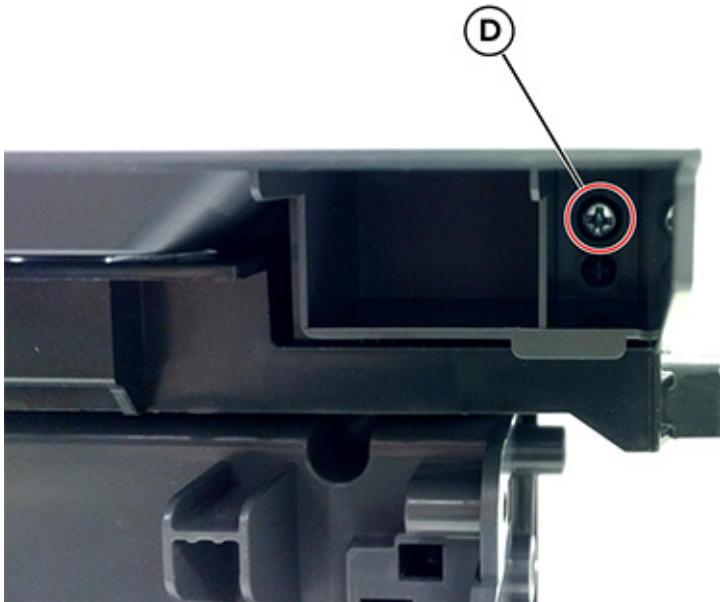


12. Raise the flatbed, route the cables through the top cover, and then remove the flatbed.

13. Remove the three screws (C).

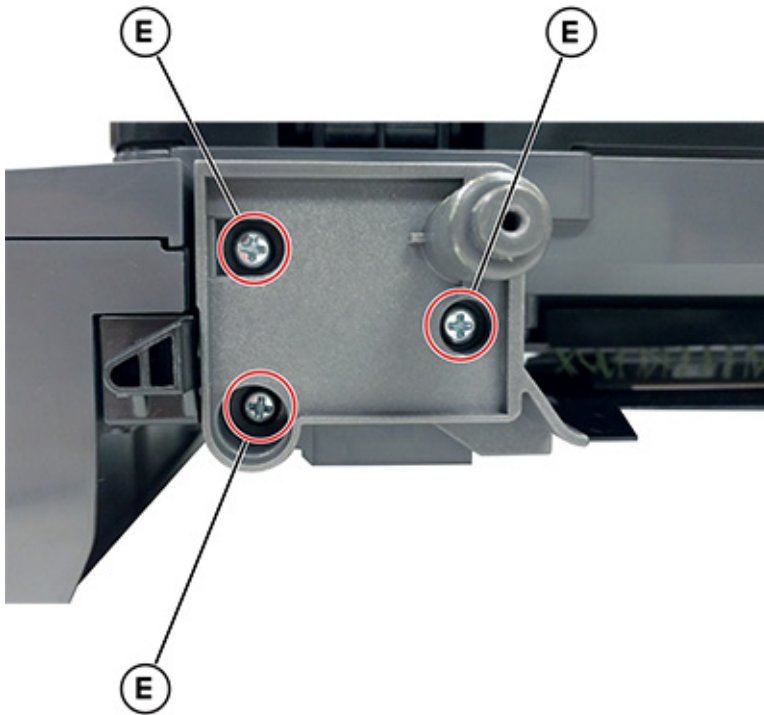


14. Remove the screw (D), and then slide the right scanner cover down.

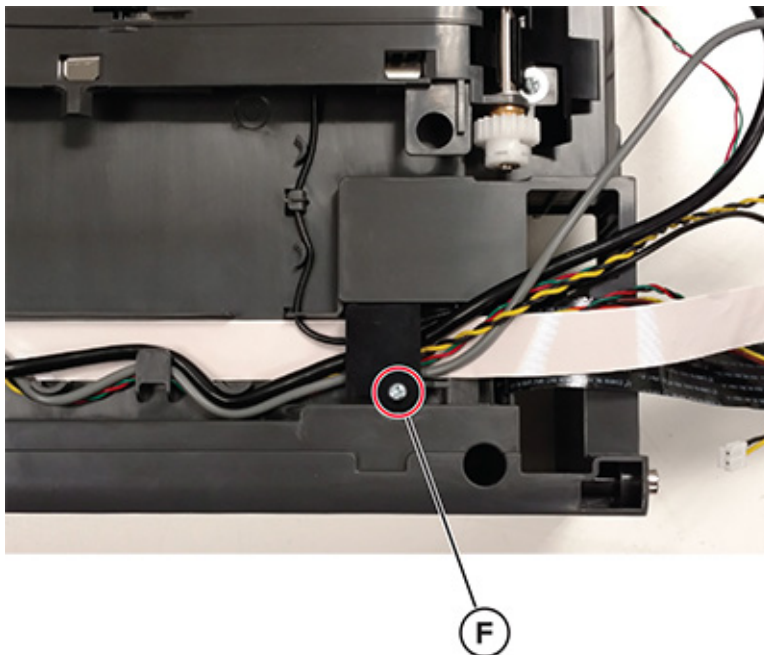


Parts Removal

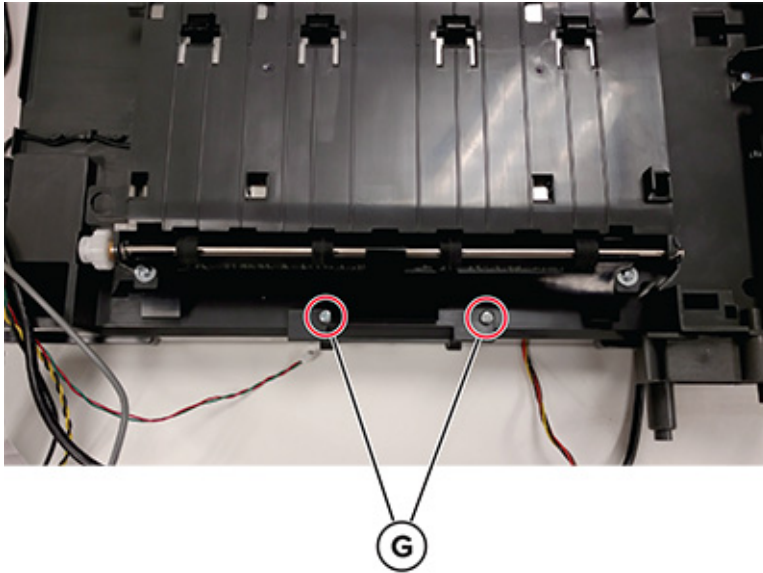
15. Remove the three screws (E).




16. With the scanner glass at the bottom, place the flatbed on a flat surface.
17. Remove the screw (F).



18. Remove the two screws (G).



19. Remove the control panel assembly cables and covers.

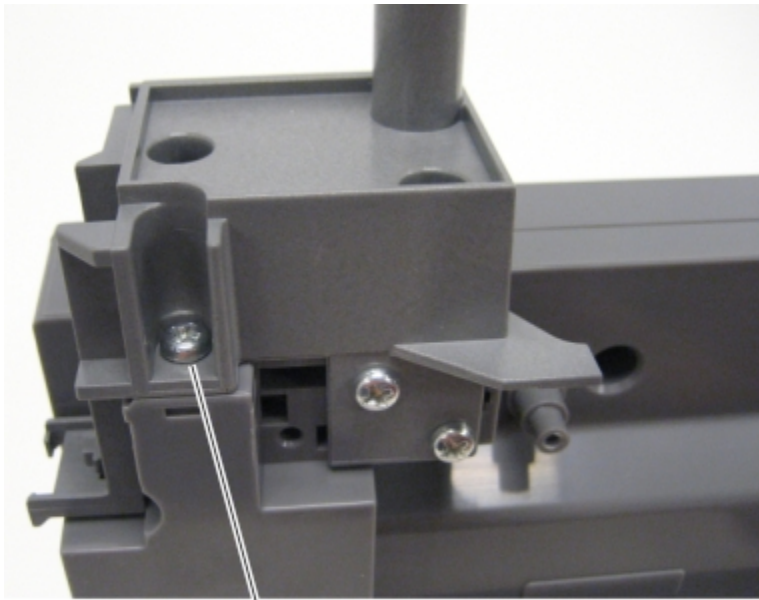
 **Note:** Installation note: After replacing the flatbed scanner assembly, perform the flatbed registration adjustment. See .

Flatbed Pivot Link (Rear Right) Removal

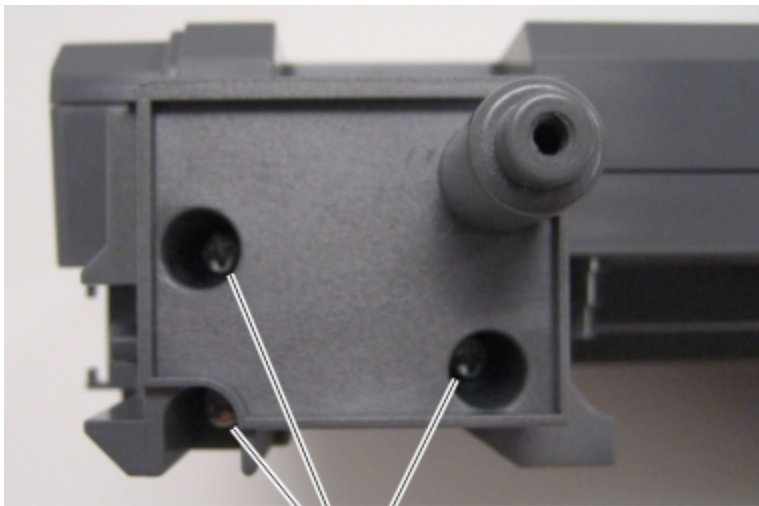
1. Remove the MFP link. See .
2. Remove the scanner right cover. See [Scanner Right Cover Removal](#).
3. Remove the MFP release lever. See [Release Lever Removal](#).

Parts Removal

4. Remove the four screws (A).



A



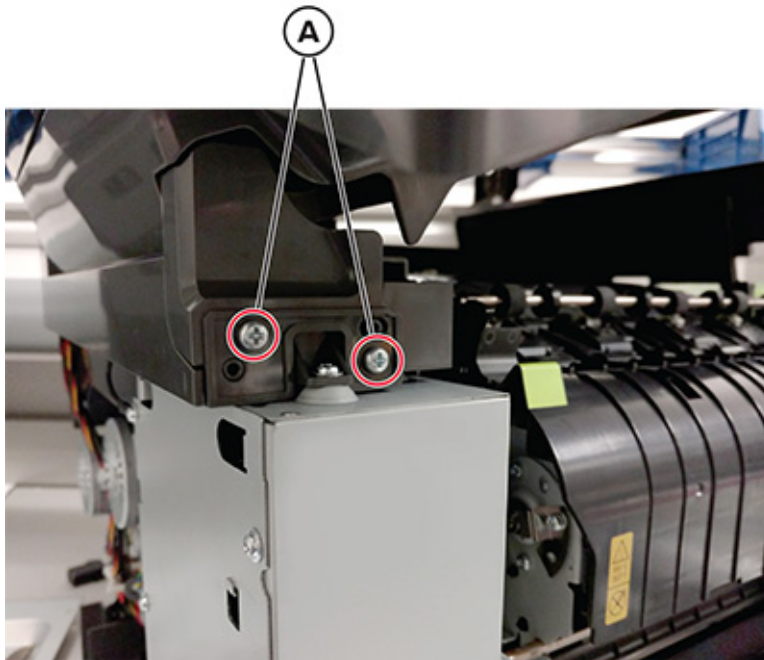
A

5. Remove the pivot link.

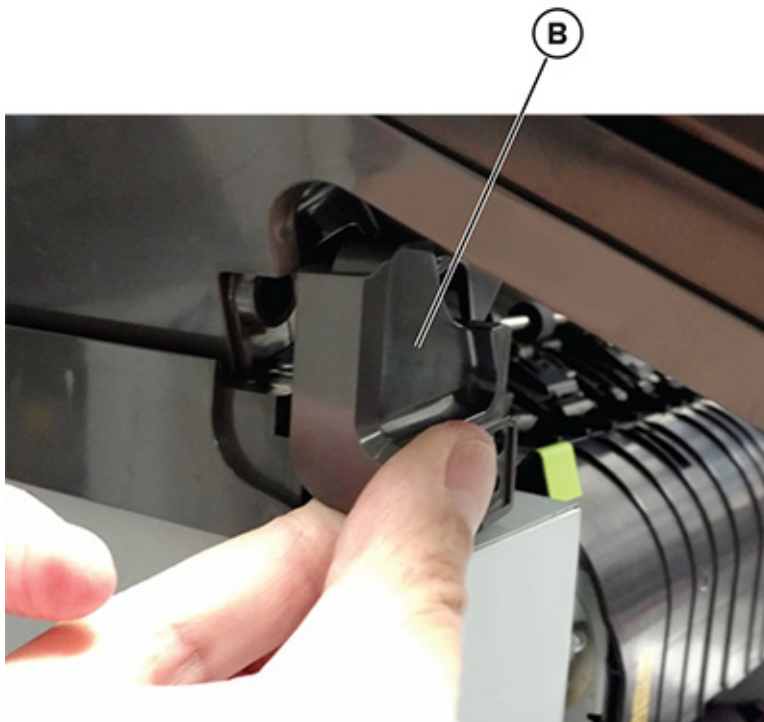
Flatbed Pivot Link (Front Left) Removal

1. Open the front door.
2. Raise the flatbed scanner assembly.

3. Remove the two screws (A).



4. While holding the scanner, remove the pivot link (B).




Options Removals

650-sheet Duo Tray Insert Removal

Pull out to remove the tray insert.



650-sheet Duo Tray Removal

 **Warning:** Make sure that the printer is turned off before removing the tray.

1. Carefully lift the printer, and set it aside on a flat surface.

2. Remove the tray.

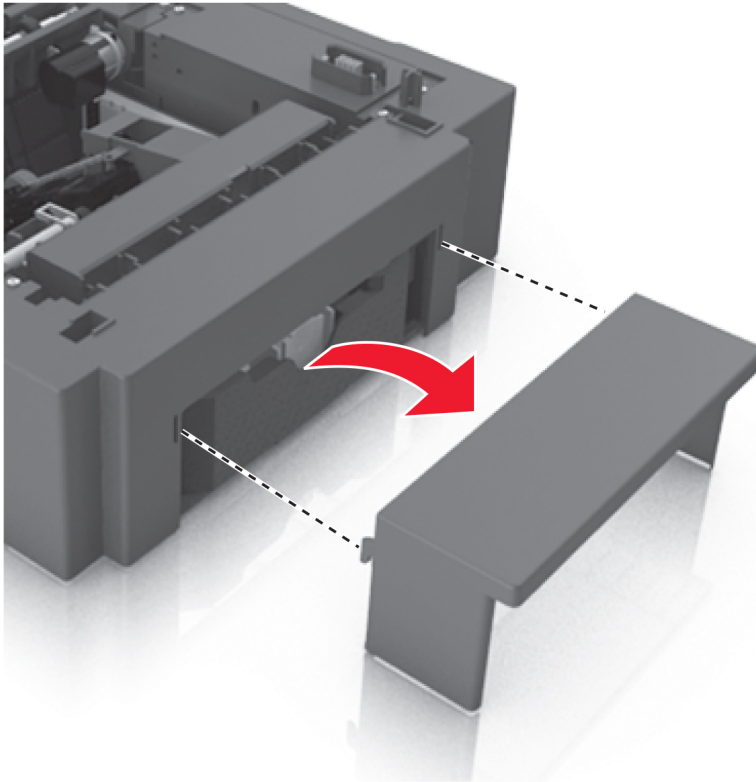


Dust Cover Removal

1. Slightly raise the dust cover.

Parts Removal

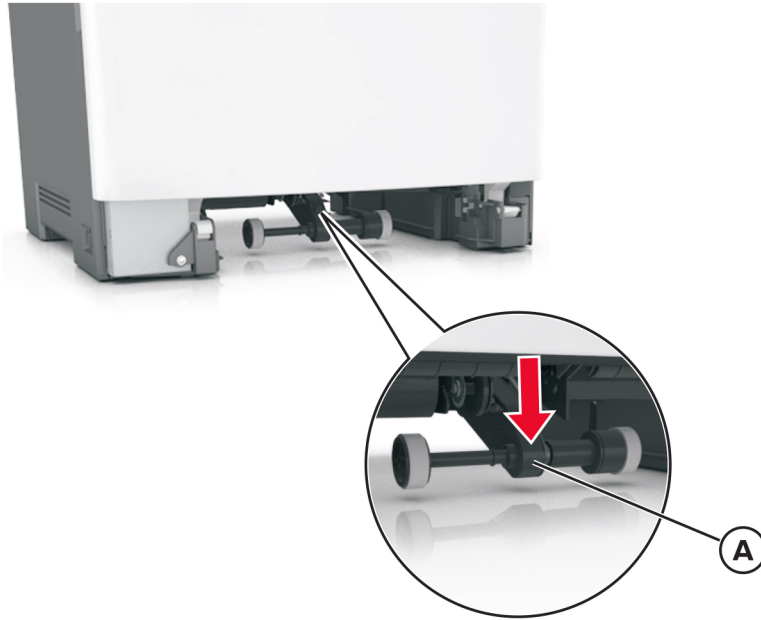
2. Pull the dust cover to remove.



Pick Tire Removal

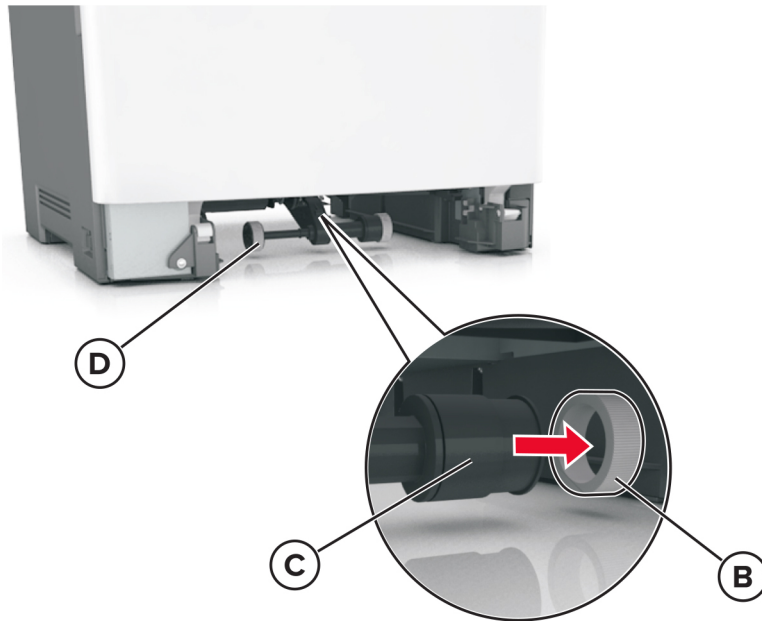
1. Remove the tray insert.


2. Lower the auto compensator mechanism (A).

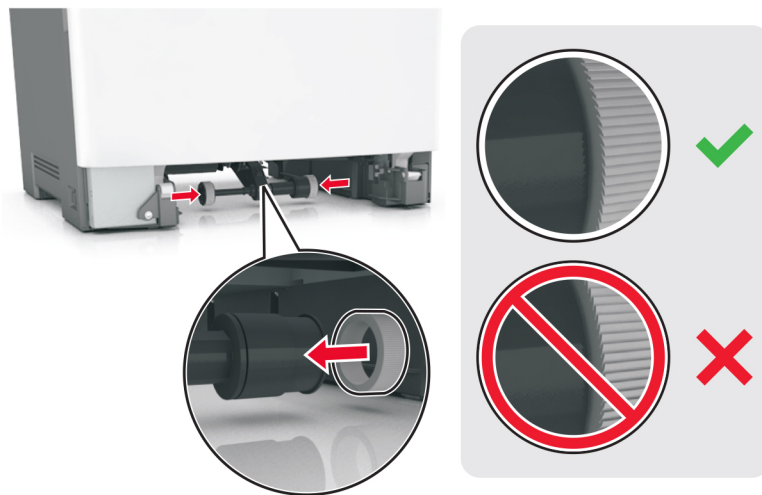


Parts Removal

3. Remove the rubber tires (B) from the pick roll assembly (C). Repeat for the other tire (D).



 **Note:** Installation note: Install the new rubber tire with its surface texture turning in the direction as shown.



 **Note:** Feel each rubber surface to verify it turns properly in the direction shown.

Component Locations

Printer Configurations



1	Automatic document feeder (ADF)
2	ADF tray
3	Standard bin
4	ADF bin
5	Standard 250-sheet tray
6	Optional 650-sheet duo tray This tray is available only in some printer models.
7	Optional 550-sheet tray This tray is available only in some printer models.

Component Locations

8	Manual feeder
9	Control panel The appearance may vary depending on your printer model.

Controller Board Connectors

Connector	Connects to	Pin no.	Signal
JCTM1	Cartridge toner metering card	1	+5V_SW
		2	Cartridge Meter C
		3	Cartridge Meter M
		4	Cartridge Meter Y
		5	Cartridge Meter K
		6	GND
JMIRR1	Printhead mirror motor card	1	Mirror Mtr REF Clock
		2	Mirror Mtr Lock Signal
		3	Mirror Mtr Start Signal
		4	GND
		5	+25V
JUICC24	2.4-inch control panel	1	LED_DRV_YLW
		2	+6.5V
		3	GSPI_TXD
		4	MIR_SPI_CS-
		5	PWR_BUTTON
		6	NFC_nCS
		7	SRDYBLE
		8	GSPI_RDX
		9	+5VL
		10	GSPI_CLK
		11	GND
		12	I2C1_DATA
		13	I2C1_CLK
		14	+5VL
		15	UI_RESET-
		16	UI_IRQ-
		17	GND
		18	LCD_LVDS_D3+
		19	LCD_LVDS_D3-

Connector	Connects to	Pin no.	Signal
		20	+5VL
		21	LCD_LVDS_CLK+
		22	LCD_LVDS_CLK-
		23	GND
		24	LCD_LVDS_D2+
		25	LCD_LVDS_D2-
		26	+5VL
		27	LCD_LVDS_D1+
		28	LCD_LVDS_D1-
		29	GND
		30	LCD_LVDS_D0+
		31	LCD_LVDS_D0-
		32	+5VL
JUICC43	4.3-inch control panel	1	LED_DRV_YLW
		2	+6.5V
		3	GSPI_TXD
		4	MIR_SPI_CS-
		5	PWR_BUTTON
		6	LCD_RS
		7	LCD_TE
		8	GSPI_RDX
		9	SRDYBLE
		10	GSPI_CLK
		11	GND
		12	I2C1_DATA
		13	I2C1_CLK
		14	NFC_nCS
		15	UI_RESET-
		16	UI_IRQ-
		17	GND
		18	LCD_WR
		19	LCD_RD

Component Locations

Connector	Connects to	Pin no.	Signal
		20	+5VL
		21	LCD_D0
		22	LCD_D1
		23	GND
		24	LCD_D2
		25	LCD_D3
		26	+5VL
		27	LCD_D4
		28	LCD_D5
		29	GND
		30	LCD_D6
		31	LCD_D7
		32	+5VL
JPH1	Printhead laser card	1	LADJ_D4
		2	I2C Data
		3	+3.3V
		4	I2C Clock
		5	GND
		6	SHADE_Y
		7	LADJ_D2
		8	SHADE_C
		9	LENA_CMY-
		10	LPOW_Y
		11	GND
		12	LPOW_C
		13	BOOST
		14	SHADE_M
		15	LADJ_D1
		16	SHADE_K
		17	+5V_PH
		18	LPOW_M
		19	GND

Connector	Connects to	Pin no.	Signal
		20	LPOW_K
		21	LENA_K-
		22	Printhead Thermistor
		23	GND
		24	HSYNC
		25	+5V_PH
JPH1	Printhead laser card	26	Y_DATA2-
		27	Y_DATA2+
		28	GND
		29	Y_DATA1-
		30	Y_DATA1+
		31	GND
		32	M_DATA2-
		33	M_DATA2+
		34	GND
		35	M_DATA1-
		36	M_DATA1+
		37	GND
		38	C_DATA2-
		39	C_DATA2+
		40	GND
		41	C_DATA1-
		42	C_DATA1+
		43	GND
		44	K_DATA2-
		45	K_DATA2+
		46	GND
		47	K_DATA1-
		48	K_DATA1+
		49	GND
50	LADJ_D3		

Component Locations

Connector	Connects to	Pin no.	Signal
JFBCIS1	Scanner with JFBCIS1 black FFC	1	GND
		2	FB_AFE_SH_CN
		3	+5V_SCAN_SW
		4	FB_AFE_SDIO_CN
		5	+3.4V_SCAN_LDO
		6	FB_AFE_SCLK_CN
		7	+3.4V_SCAN_LDO
		8	FB_AFE_SEN_CN
		9	GND
		10	FB0_MCLK_P
		11	FB0_MCLK_N
		12	GND
		13	FB0_RXDCLK_P
		14	FB0_RXDCLK_N
		15	GND
		16	FB_RXIN0_P
		17	FB_RXIN0_N
		18	GND
		19	FB_RXIN1_P
		20	FB_RXIN1_N
		21	GND
		22	FB_RXIN2_P
		23	FB_RXIN2_N
		24	GND
JBSCIS1	Scanner with BSCIS1 white FFC	1	GND
		2	BS_AFE_SH_CN
		3	+5V_SCAN_SW
		4	BS_AFE_SDIO_CN
		5	+3.4V_SCAN_LDO
		6	BS_AFE_SCLK_CN
		7	+3.4V_SCAN_LDO

Connector	Connects to	Pin no.	Signal
		8	BS_AFE_SEN_CN
		9	GND
		10	BS1_MCLK_P
		11	BS1_MCLK_N
		12	GND
		13	BS1_RXDCLK_P
		14	BS1_RXDCLK_N
		15	GND
		16	BS_RXINO_P
		17	BS_RXINO_N
		18	GND
		19	BS_RXIN1_P
		20	BS_RXIN1_N
		21	GND
		22	BS_RXIN2_P
		23	BS_RXIN2_N
24	GND		
JADF1	Scanner	1	ADF Paper Present Signal
		2	ADF FEED Direction
		3	ADF Stage Signal
		4	ADF FEED PWM
		5	Frontside Feed Signal
		6	ADF TP_Home Vref
		7	ADF TP_Feed Dplx Signal
		8	ADF PICK Direction
		9	Flatbed Cover Open/ Close
		10	ADF PICK PWM
		11	ADF Cover Open/Close
		12	ADF PICK ENCY
		13	Deskew Clutch PWM
		14	+25V

Component Locations

Connector	Connects to	Pin no.	Signal
		15	+3.3V_SCAN_SW
		16	GND
		17	+3.3V_SCAN_PULSE
		18	GND
		19	ADF PICK ENCX
		20	ADF FEED ENCY
		21	ADF FEED ENCX
		22	No Connect
JBIN2	MFP bin full optical sensor	1	MFP BinFull Sensor Anode
		2	MFP BinFull Sense Voltage
		3	GND
JUIPWR1	Control panel card	1	1. +5VL
		2	GND
JFB1	Flatbed stepper motor in the scanner	1	FB Stepper Mtr Phase B-
		2	FB Stepper Mtr Phase B+
		3	FB Stepper Mtr Phase A+
		4	FB Stepper Mtr Phase A-
JFAN1	Fan	1	GND
		2	+25V
		3	Fan Tach
		4	Fan PWM
JSPKR2	Speaker from audio amp	1	Speaker +
		2	Speaker -
JSPKR1	Speaker from audio DAC	1	Speaker +
		2	Speaker -
JFAX2	Fax card	1	Fax Tone
		2	+3.3V
		3	+3.3V
		4	Fax POR
		5	+5V
		6	Fax IRQ-

Connector	Connects to	Pin no.	Signal
		7	GND
		8	BSPI CLK
		9	GND
		10	BSPI TXD
		11	GND
		12	BSPI RXD
		13	GND
		14	Fax SPI CS-
JCARTP1	K/ITM BLDC motor and CMY BLDC motor	1	K/ITM Winding W
		2	K/ITM Winding V
		3	K/ITM Winding U
		4	CMY Winding W
		5	CMY Winding V
		6	CMY Winding U
JLVPS1	LVPS	1	+6.5V
		2	GND
		3	+6.5V
		4	GND
		5	+6.5V
		6	GND
		7	+25V
		8	GND
		9	+25V
		10	GND
		11	+25V
		12	GND
		13	AC Relay On/Off
		14	Zero-Xing
		15	Fuser On/Off
		16	25V On/Off
JSH1	Flatbed optical home sensor	1	FB Home Sensor Anode
		2	GND

Component Locations

Connector	Connects to	Pin no.	Signal
		3	FB Home Sensor Sense Voltage
JOPT1	Tray option connector	1	Printer TXD
		2	GND
		3	GND
		4	Printer RXD
		5	+25V
		6	GND
		7	+5VH
		8	Input (S2) Signal
		9	GND
		10	GND
JCARTS1	K/ITM BLDC motor and CMY BLDC motor	1	K/ITM Hall_U
		2	K/ITM Hall_V
		3	K/ITM Hall_W
		4	K/ITM FG
		5	GND
		6	+5V_SW
		7	CMY Hall_U
		8	CMY Hall_V
		9	CMY Hall_W
		10	CMY FG
		11	GND
		12	+5V_SW
JTHM1	TPS thermistor	1	TPS Thermistor
		2	GND
JBIN1	Fuser exit optical sensor and bin-full/narrow media optical sensor	1	BF/NM Sensor Anode
		2	BF/NM Sense Voltage
		3	GND
		4	Fsr Exist Sensor Anode
		5	Fsr Exist Sense Voltage
		6	GND

Connector	Connects to	Pin no.	Signal
JSP1	Autocomp assembly	1	Quad Encdr LED Anode
		2	Pick Mtr(+)
		3	Quad Encdr LED Cathode
		4	Pick Mtr(-)
		5	+5V_SW
		6	GND
		7	GND
		8	GND
		9	Encoder Signal A
		10	Pick Mtr Encdr Sense Voltage
		11	Encoder Signal B
		12	Pick Mtr Encdr Anode
		13	GND
		14	Input (S2) Sensor Anode
		15	Input (S2) Sense Voltage
		16	GND
JTPS2	Left side TPS sensor	1	Sensor Anode
		2	Sensor Cathode
		3	GND
		4	LED Anode
		5	LED GND
JHVPS1	HVPS	1	+5V from HVPS
		2	GND
		3	M_Developer PWM
		4	K_Developer PWM
		5	C_Developer PWM
		6	CMY_Charge PWM
		7	Y_Developer PWM
		8	K_Charge PWM
		9	K_Transfer PWM
		10	CMY_Transfer PWM

Component Locations

Connector	Connects to	Pin no.	Signal
		11	ITM_Transfer PWM
		12	GND
		13	CMY Analog Servo Voltage
		14	K Analog Servo Voltage
		15	ITM Analog Servo Voltage
		16	HVPS ID Voltage
		17	+25V after PFET (Q32)
		18	GND
JWS1	Weather station card	1	GND
		2	I2C_Clock
		3	GND
		4	I2C_Data
		5	+3.3V
		6	GND
JFUSES1	Fuser, duplex/MPF optical sensor, and bubble optical sensor	1	Fuser Stepper-Mtr PhaseA1
		2	Fuser Stepper-Mtr PhaseA2
		3	Fuser Stepper-Mtr PhaseB1
		4	Fuser Stepper-Mtr PhaseB2
		5	Fuser Hot-Roll Thermistor
		6	GND
		7	Dplx/MPF Sensor Anode
		8	GND
		9	Dplx/MPF Sense Voltage
		10	Fuser Belt Thermistor
		11	GND
		12	GND
		13	Fuser Belt ID Voltage
		14	Bubble Sensor Anode

Connector	Connects to	Pin no.	Signal
		15	Bubble Sense Voltage
		16	GND
		17	GND
		18	GND
		19	GND
		20	GND
JTPS1	Right side TPS sensor	1	Sensor Anode
		2	Sensor Cathode
		3	GND
		4	LED Current Source
		5	LED GND
JTRAY1	Tray 1 present optical sensor	1	Sensor Anode
		2	Sense Voltage
		3	GND
JCVR1	Cover switch	1	25V Source
		2	25V Safety
JSC1	Image basket card	1	+3.3V_SCHIP
		2	I2C_Data
		3	I2C_Clock
		4	GND
JRIP1	Firmware debug (LB-Trace) port	1	GND
		2	RXD
		3	TXD
		4	+3.3V
JVIP1	Socket for viper card	1	GSPI TXD
		2	+3.3V
		3	GSPI CLK
		4	GND
		5	GSPI CS-
		6	GSPI RXD
58_JWT1	Waste toner bottle	1	GND
		2	AC Supply Voltage

Component Locations

Connector	Connects to	Pin no.	Signal
		3	Ref. Voltage
		4	Sense Voltage
JFUSB1	Front USB host connector	N/A	N/A
JIPS1	Internal network adapters (INA) and wireless card	1	GND
		2	No Connect
		3	No Connect
		4	GND
		5	ISP_USB_P
		6	ISP_USB_N
		7	GND
		8	+3.3V
		9	ISP_RESET-
		10	+5V_ISP
		11	I2C2_DATA
		12	+5V_ISP
		13	I2C2_CLK
		14	+5V_ISP
JSEC1	Security jumper	1	Security Jumper Signal
		2	GND
		3	GND
JRUSB1	Rear USB host connector	N/A	N/A
JUSB1	USB device connector	N/A	N/A
JETH1	Ethernet connector .01/.1/1Gb	N/A	N/A
JMEM1	Socket for the expanded memory card	N/A	N/A
JADF	ADF	1	PAP_PRES_ADFR
		2	FEED_DIR_ADFR
		3	STAGE_ADFR
		4	FEED_PWM_ADFR
		5	FRONTSIDE_FEED_R
		6	TPHOME_VREF_ADFR

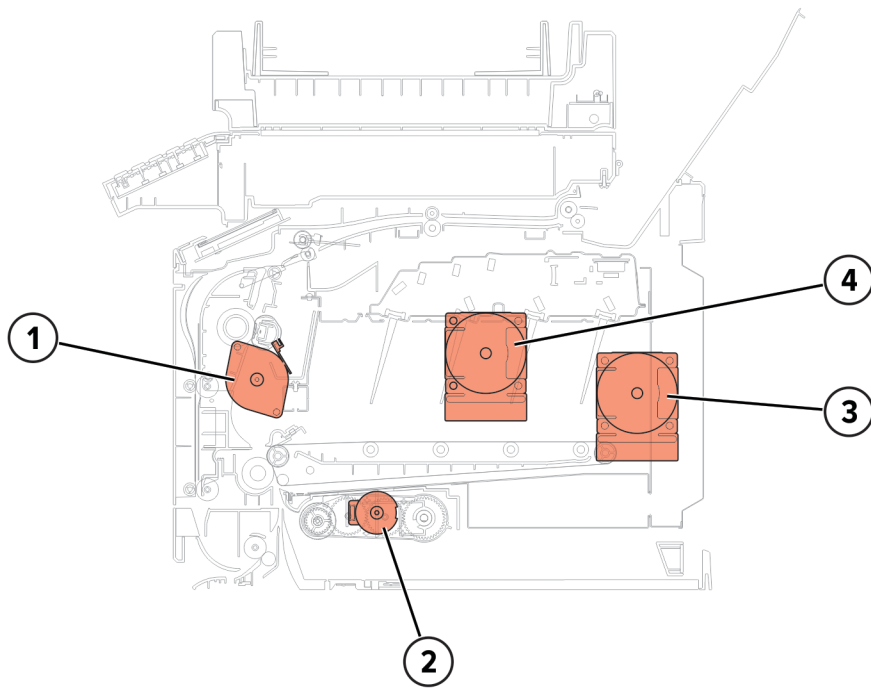
Connector	Connects to	Pin no.	Signal
		7	TPFEED_DPLX_ADFR
		8	PICK_DIR_ADFR
		9	COVER_FBR
		10	PICK_PWM_ADFR
		11	COVER_ADFR
		12	PICK_ENCY_ADFR
		13	DSKW_CLTCH_PWMR
		14	+24V_ADF
		15	+3.3V_SCAN_SW
		16	GND
		17	+3.3V_SCAN_PULSE
		18	GND
		19	PICK_ENCX_ADFR
		20	FEED_ECY_ADFR
21	FEED_ECX_ADFR		
22	NC_JADF22		
JBCIS1	Back side CIS	1	GND
		2	BS_AFE_SH_CN
		3	+5V_SCAN_SW
		4	BS_AFE_SDIO_CN
		5	+3.4V_SCAN_LDO
		6	BS_AFE_SCK_CN
		7	+3.4V_SCAN_LDO
		8	BS_AFE_SEN_CN
		9	GND
		10	BS1_MCLK_P_C
		11	BS1_MCLK_N_C
		12	GND
		13	BS1_RXCLK_P
		14	BS1_RXCLK_N
		15	GND

Component Locations

Connector	Connects to	Pin no.	Signal
		16	BS_RXIN0_P
		17	BS_RXIN0_N
		18	GND
		19	BS_RXIN1_P
		20	BS_RXIN1_N
		21	GND
		22	BS_RXIN2_P
		23	BS_RXIN2_N
JFBCIS1	Front side CIS	24	GND
		1	GND
		2	FB_AFE_SH_CN
		3	+5V_SCAN_SW
		4	FB_AFE_SDIO_CN
		5	+3.4V_SCAN_LDO
		6	FB_AFE_SCK_CN
		7	+3.4V_SCAN_LDO
		8	FB_AFE_SEN_CN
		9	GND
		10	FB1_MCLK_P_C
		11	FB1_MCLK_N_C
		12	GND
		13	FB1_RXCLK_P
		14	FB1_RXCLK_N
		15	GND
		16	FB_RXIN0_P
		17	FB_RXIN0_N
		18	GND
		19	FB_RXIN1_P
		20	FB_RXIN1_N
		21	GND
		22	FB_RXIN2_P
23	FB_RXIN2_N		

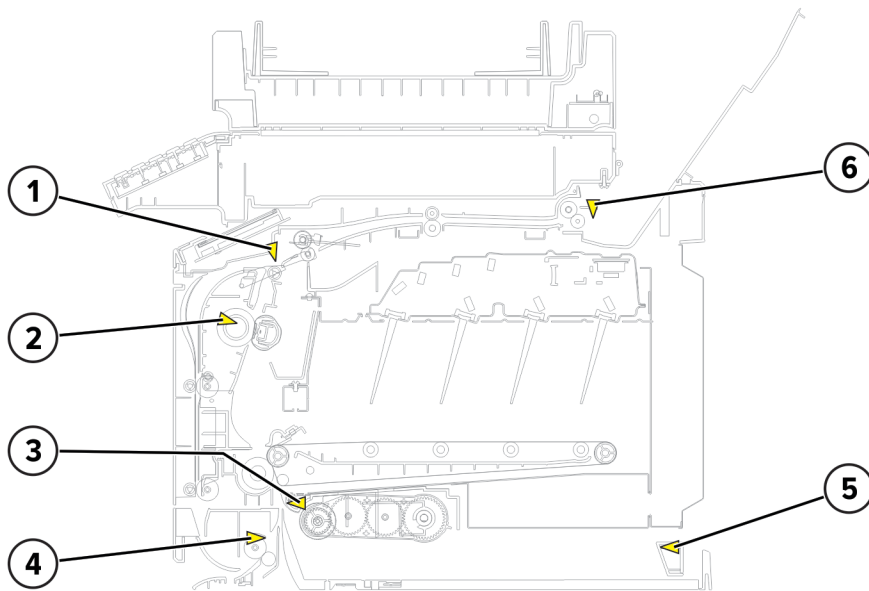
Connector	Connects to	Pin no.	Signal
		24	GND
JBIN2	Rear bin full sensor	1	+5V_SLP
		2	GR_BIN2_FULL
		3	GND
JFB1	Flatbed motor	1	FBM_A-
		2	FBM_A+
		3	FBM_B+
		4	FBM_B-
JHS1	Home sensor	1	+3.3v
		2	GND
		3	HOME_FBR

Motor Locations



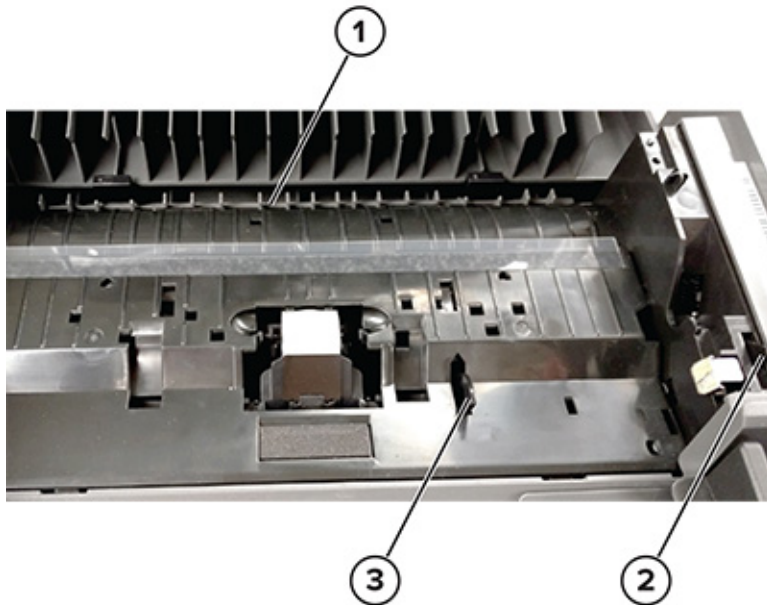
Part	Description
1	Motor (fuser)
2	Motor (tray 1 pick)
3	Motor (CMY drive unit)
4	Motor (K drive unit)

Sensor Locations

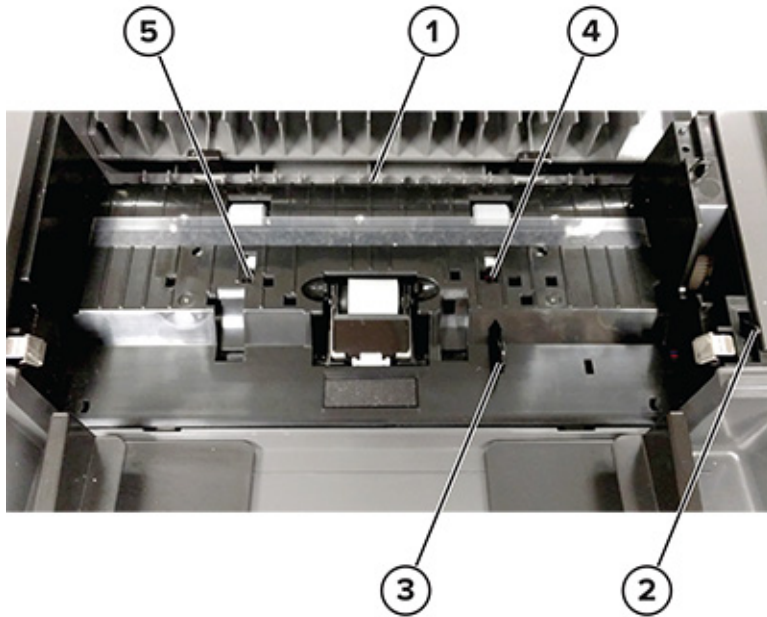


Part	Description
1	Sensor(narrow media)
2	Sensor (fuser exit)
3	Sensor (input)
4	Sensor (redrive/duplex path 1)
5	Sensor (tray present)
6	Sensor (bin full)

ADF Sensor Locations

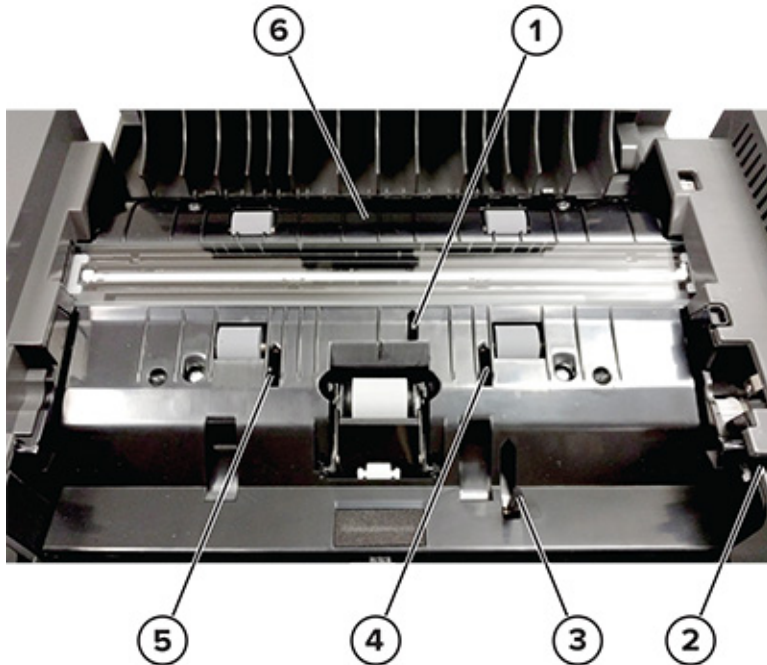


Part	Description	Associated error codes
1	Sensor(ADF first scan)	<ul style="list-style-type: none"> • 280.11 • 280.13 • 280.15 • 295.01
2	Sensor (ADF top door interlock)	N/A
3	Sensor (ADF media present)	<ul style="list-style-type: none"> • 283.11 • 283.13 • 283.15 • 680.20
NS	Sensor(ADF closed)	N/A



Part	Description	Associated error codes
1	Sensor(ADF first scan)	<ul style="list-style-type: none"> • 280.11 • 280.13 • 280.15 • 295.01
2	Sensor (ADF top door interlock)	N/A
3	Sensor (ADF paper present)	<ul style="list-style-type: none"> • 283.11 • 283.13 • 283.15 • 680.20
4	Sensor (ADF pick)	<ul style="list-style-type: none"> • 281.11 • 281.15 • 281.16
5	Sensor (ADF skew)	<ul style="list-style-type: none"> • 283.11 • 283.13 • 283.15
NS	Sensor (ADF duplex)	<ul style="list-style-type: none"> • 284.11 • 284.13 • 284.15
NS	Sensor(ADF closed)	N/A

Component Locations



Part	Description	Associated error codes
1	Sensor(ADF first scan)	<ul style="list-style-type: none"> • 280.11 • 280.13 • 280.15 • 295.01
2	Sensor (ADF top door interlock)	N/A
3	Sensor (ADF paper present)	<ul style="list-style-type: none"> • 283.11 • 283.13 • 283.15 • 680.20
4	Sensor (ADF pick)	<ul style="list-style-type: none"> • 281.11 • 281.15 • 281.16
5	Sensor (ADF skew)	<ul style="list-style-type: none"> • 283.11 • 283.13 • 283.15
6	Sensor(ADF second scan)	<ul style="list-style-type: none"> • 284.11 • 284.13 • 284.15
NS	Sensor(ADF closed)	N/A

 **Note:**

- The sensor (ADF duplex) is triggered by feeding a sheet of paper into the exit of the recirculating ADF.
- The sensor (ADF closed) is triggered by lifting the flatbed cover up.

Component Locations

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 machine, 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 cover and power supply cover
- Possible safety exposure from any non-Lexmark components

Use the following table to determine when to inspect the following parts.

Xerox C315	Every service call	Every 125K	Notes
Tray - All			
Tray side guides	Inspect		Check for correct positioning.
Tray length guides	Inspect		Check for correct positioning.
Transfer module	Inspect	NA	Ensure correct installation.
Fuser	Inspect	Replace	Ensure correct installation.
Pick tires - All			
Tray pick tires	Inspect and clean if needed.		Clean with a damp cloth.
MPF pick tires	Inspect and clean if needed.		Clean with a damp cloth.
Paper path			
Duplex path rollers	Inspect		<ul style="list-style-type: none"> • Check for paper fragments and tears. • Check for excessive toner build up on white rollers. • Clean with a damp cloth if needed.
Miscellaneous			
Toner spillage	Clean		Use a toner vacuum and cloth to remove the spillage.

Scheduled Maintenance

The control panel displays an 80.xx error when it reaches certain page counts. It is necessary to replace the appropriate maintenance kit to maintain print quality and printer reliability.

 **Note:** When replacing the fuser, reset the maintenance counter.

Maintenance Parts

After 125K printed pages (sides) the fuser and the pick roller replacement may be required. Install the correct fuser to match the type of fuser that is installed in the printer.

 **Note:**

- You can continue to run past the rated life of the fuser.
- The fuser has no hard stop and should not typically wear out with use.
- Use the Embedded Web Server to turn off the notifications for fuser life warnings.

The following error codes indicate that the fuser is nearing its end of life and requires replacement.

Error code	Description
80.0x	The maintenance kit (fuser) is nearly low.
80.1x	The maintenance kit (fuser) is low.
80.2x	The maintenance kit (fuser) is very low. Only 2000 estimated pages remain.
80.3x	The maintenance kit (fuser) is low. 0 estimated pages remain.
80.4x	The maintenance kit (fuser) is very low. 0 estimated pages remain.

When performing the scheduled maintenance procedure, clean the following areas of paper dust and toner contamination:






- Trays
- Photoconductor cartridge area
- Developer unit housing area
- Transfer roller area
- Duplex area
- Standard bin
- Bridge unit area (if equipped)
- Finisher bins (if equipped)

Resetting The Maintenance Counter

1. Enter the Diagnostics menu, and then navigate to:
Printer diagnostics & adjustments > Supply Reset > Maintenance kit reset
2. Press **OK** or touch **Start**.

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.
-  **ATTENTION ! RISQUE D'ÉLECTROCUTION :** pour éviter tout risque d'électrocution lors du nettoyage de l'extérieur de l'imprimante, débranchez le cordon d'alimentation électrique de la prise et déconnectez tous les câbles de l'imprimante avant de continuer.
-  **PRECAUCIÓN—RIESGO DE DESCARGA:** Para evitar el riesgo de descarga eléctrica al limpiar el exterior de la impresora, desconecte el cable de alimentación de la toma eléctrica y desconecte todos los cables de la impresora antes de realizar la operación.
-  **VORSICHT – STROMSCHLAGEFAHR:** Um das Risiko eines elektrischen Schlags beim Reinigen des Druckergehäuses zu vermeiden, ziehen Sie das Netzkabel aus der Steckdose, und ziehen Sie alle Kabel vom Drucker ab, bevor Sie fortfahren.
-  **ATTENZIONE – PERICOLO DI SCOSSA ELETTRICA:** Per evitare il rischio di scosse elettriche quando si pulisce la parte esterna della stampante, scollegare il cavo di alimentazione dalla presa a muro e scollegare tutti i cavi della stampante prima di procedere.

 **Note:**

- 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 manual 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.

 **Note:**

- 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.

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



Maintenance

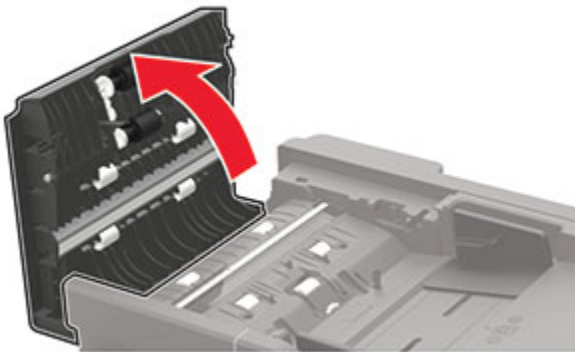
- Scanner glass pad



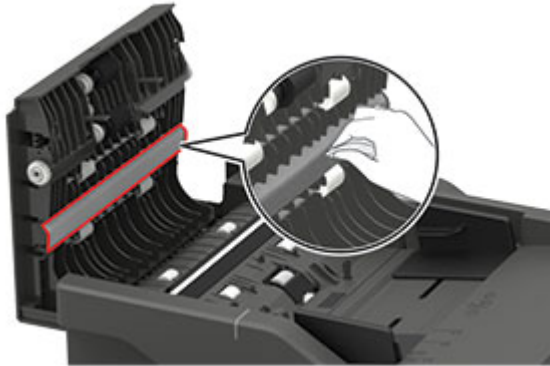
3. Close the scanner cover.

If your printer has another ADF glass inside door C, then continue with the following steps.

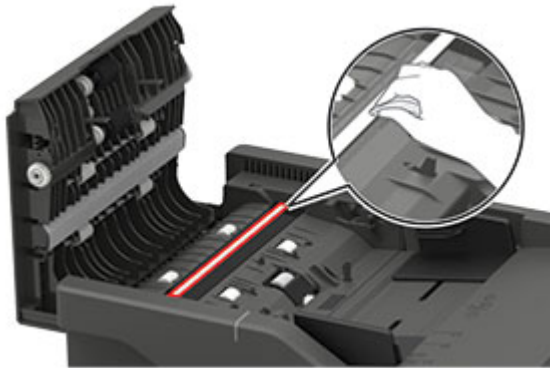
4. Open door C.



- Using a damp, soft, lint-free cloth, wipe the following areas:
 - ADF glass pad in door C



- ADF glass in door C



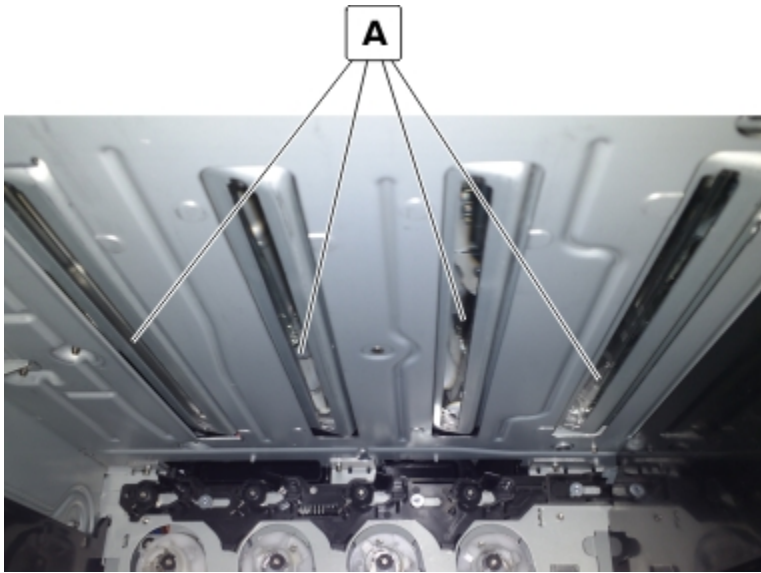
- Close the door.

Cleaning The Printhead Lenses

- Remove the waste toner bottle. See [Waste toner bottle removal](#).
- Remove the imaging kit. See [Imaging kit removal](#).

Maintenance

3. Using a damp, soft, lint-free cloth, wipe the printhead lenses (A).



Parts Catalog

Legend

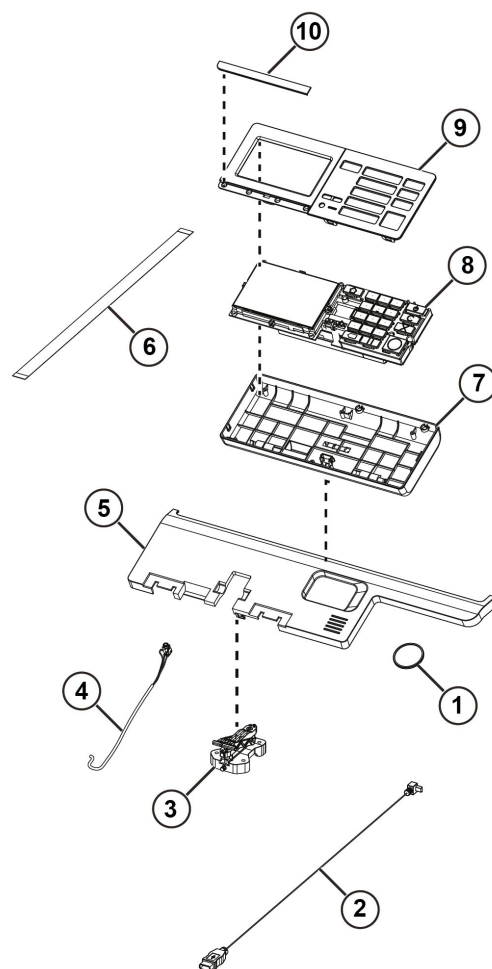
The following column headings are used in the parts catalog:

- **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: 4.3-inch Control Panel

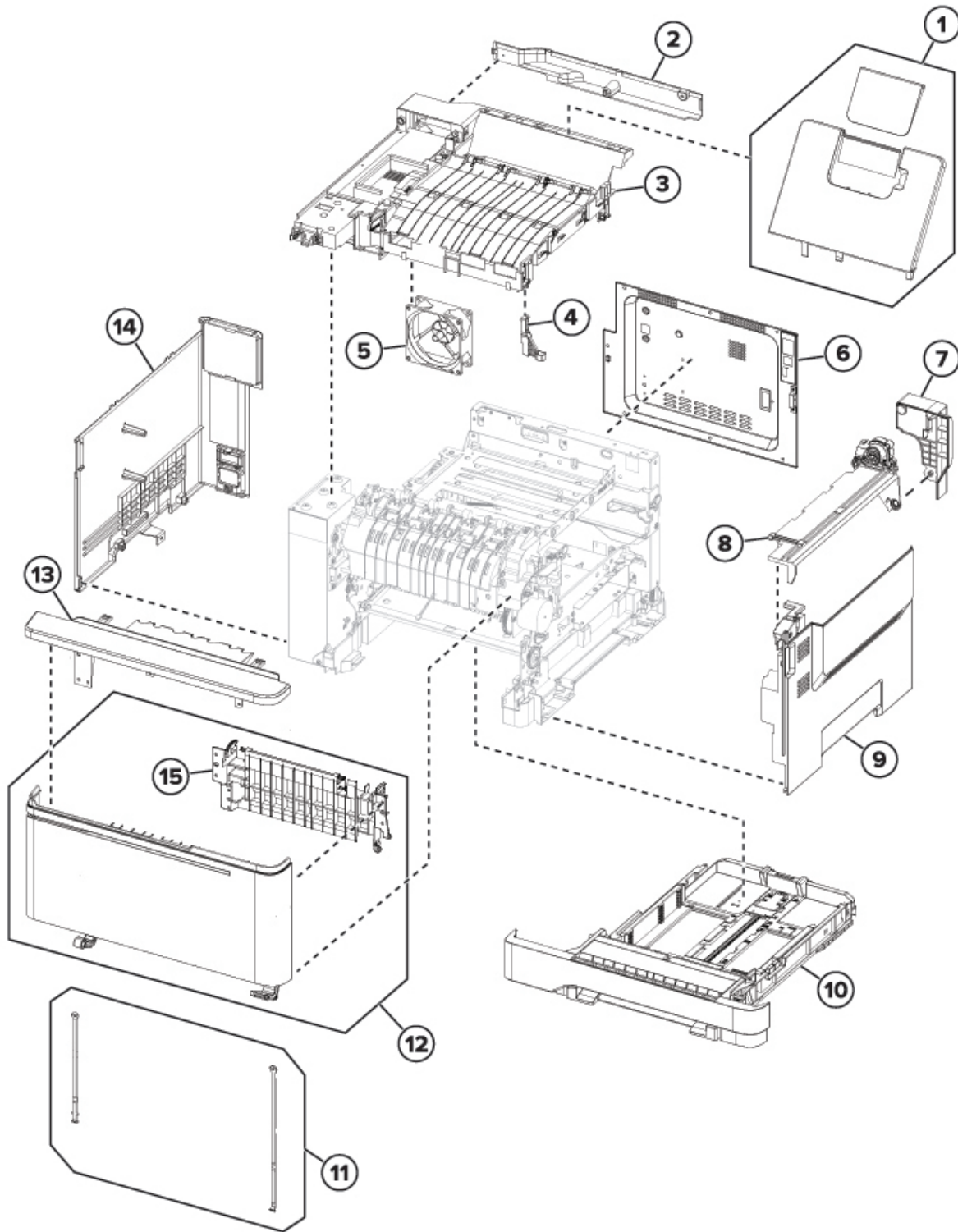


Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	130N01900	1	1	Speaker	Speaker Removal
2	117N02186	1	1	USB cable	–
3	031N00249	1	1	Control panel rotation arm	–
4	130N01899	1	1	Headphone cable with clip	–
5	109N00848	1	1	Scanner top front cover	–
6	117N02202	1	1	4.3-inch control panel ribbon cable	4.3-inch Control Panel Removal

Parts Catalog

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
7	002N03375	1	1	4.3-inch control panel base cover	–
8	002N03380	1	1	4.3-inch control panel assembly	4.3-inch Control Panel Removal
9	056N00215	1	1	4.3-inch control panel bezel	4.3-inch Control Panel Bezel Removal
10	002N03383	1	1	Blank control panel badge cover	
NS	030N00826	1	1	Front bracket cover	Front Bracket Cover Removal
NS	117N02185	1	1	Control panel power cable	–

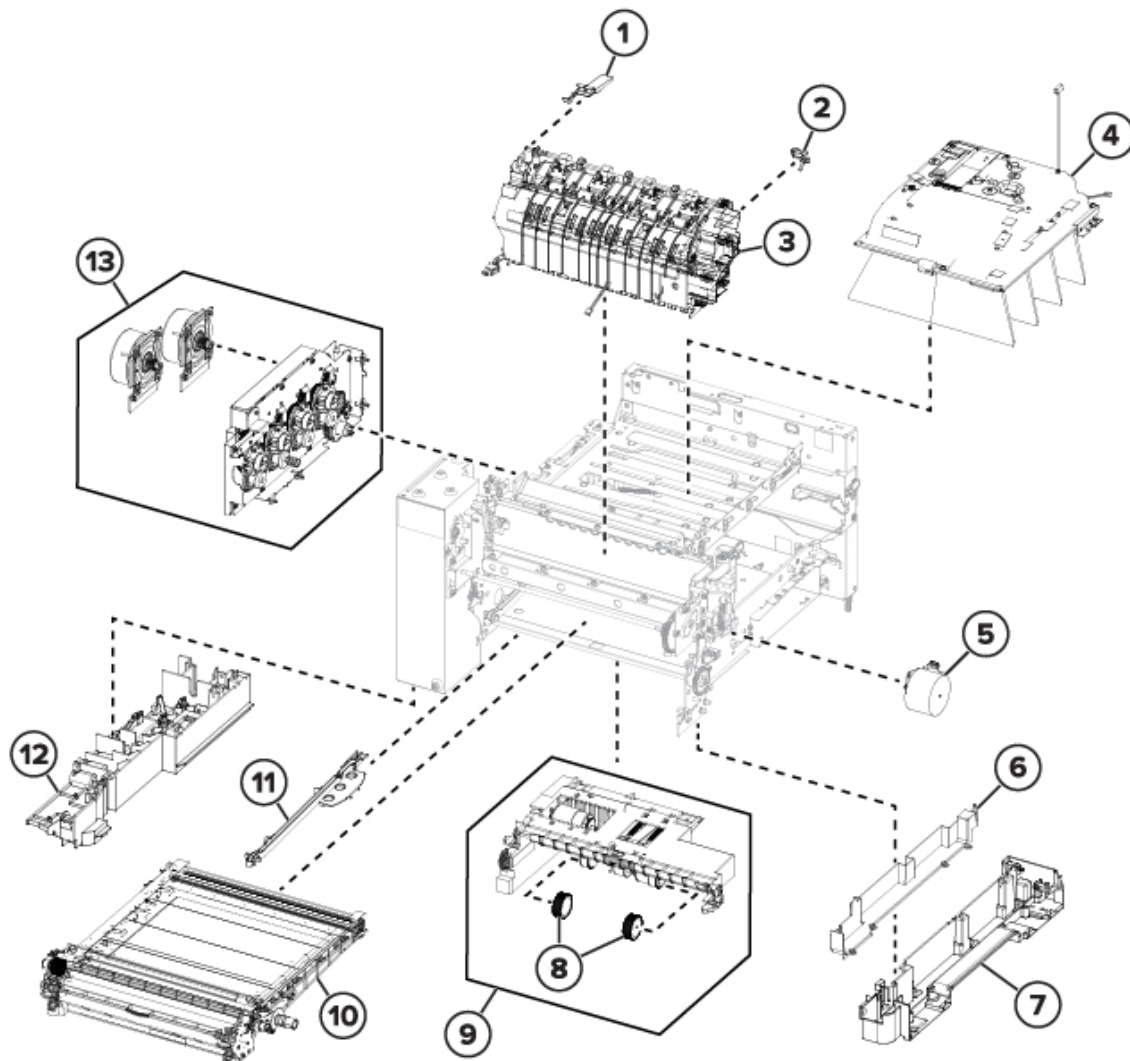
Assembly 2: Covers



Parts Catalog

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	050N00721	1	1	Output bin	Output Bin and Paper Bail Removal
2	002N03418	1	1	MFP cable cover	–
3	002N03419	1	1	Top cover with fan	Top Cover Removal
4	030N00827	1	1	Front toner door pivot bracket	Flatbed Pivot Link (Front Left) Removal
5	127N07965	1	1	System fan	System fan removal
6	002N03386	1	1	Rear cover	Rear cover removal
7	012N00548	1	1	MFP link	
8	002N03376	1	1	Toner cover with damper	MFP Toner Cover Removal
9	002N03420	1	1	Right cover	Right cover removal
10	050N00718	1	1	250-sheet tray	–
11	003N01189	1	2	Door straps	–
12	002N03423	1	1	Front door	Front Door Removal
13	002N03421	1	1	Front middle cover	Front Middle Cover Removal
14	002N03417	1	1	Left cover	Left cover removal
15	055N00338	1	1	Front door inner deflector	Front Door Inner Deflector Removal

Assembly 3: Paper Path and Frame

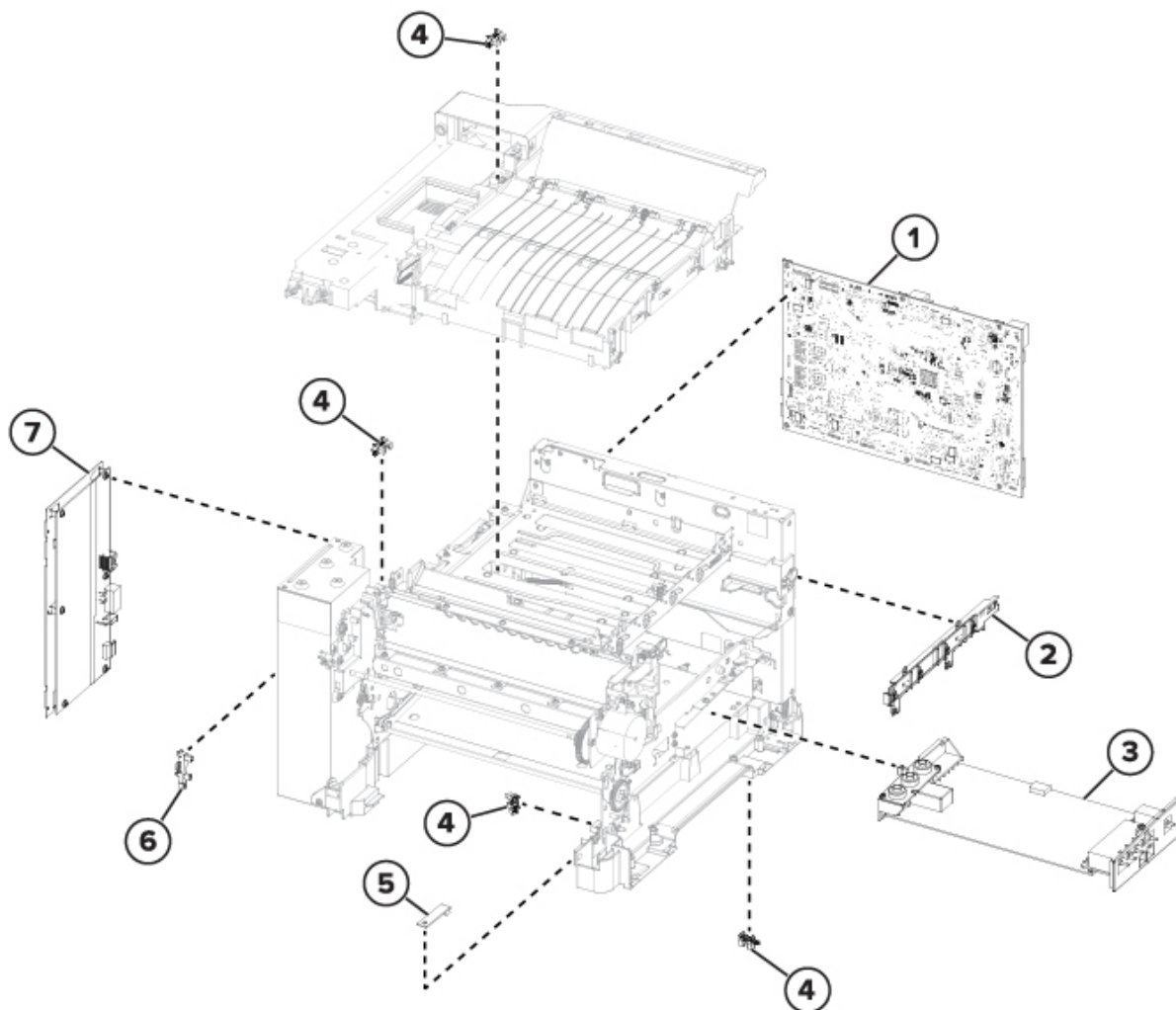


Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	130N01902	1	1	Narrow media sensor flag	Narrow Media Sensor Flag Removal
2	055N00336	1	1	Right fuser deflector	MFP Fuser Deflector Flag Removal
3	126N00456	1	1	110 V Fuser	Fuser removal
3	126N00457	1	1	220 V Fuser	Fuser removal

Parts Catalog

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
4	046N00241	1	1	Printhead	Printhead removal
5	127N07961	1	1	Motor (fuser drive)	Motor (fuser drive) removal
6	117N02189	1	1	Subframe cable cover	–
7	001N00593	1	1	Lower right subframe	Lower right frame removal
8	022N02894	2	2	Pick tires	Pick Tires Removal
9	022N02898	1	1	Media feeder	Tray 1 media feeder removal
10	133N23275	1	1	Transfer module	Transfer module removal
11	133N23274	1	1	Transfer module guide	Transfer module guide removal
12	001N00594	1	1	Lower left subframe	Lower Left Frame Removal
13	007N01851	1	1	EP drive assembly	EP drive assembly removal
NS	001N00595	4	4	Sub-frame foot	–

Assembly 4: Electronics

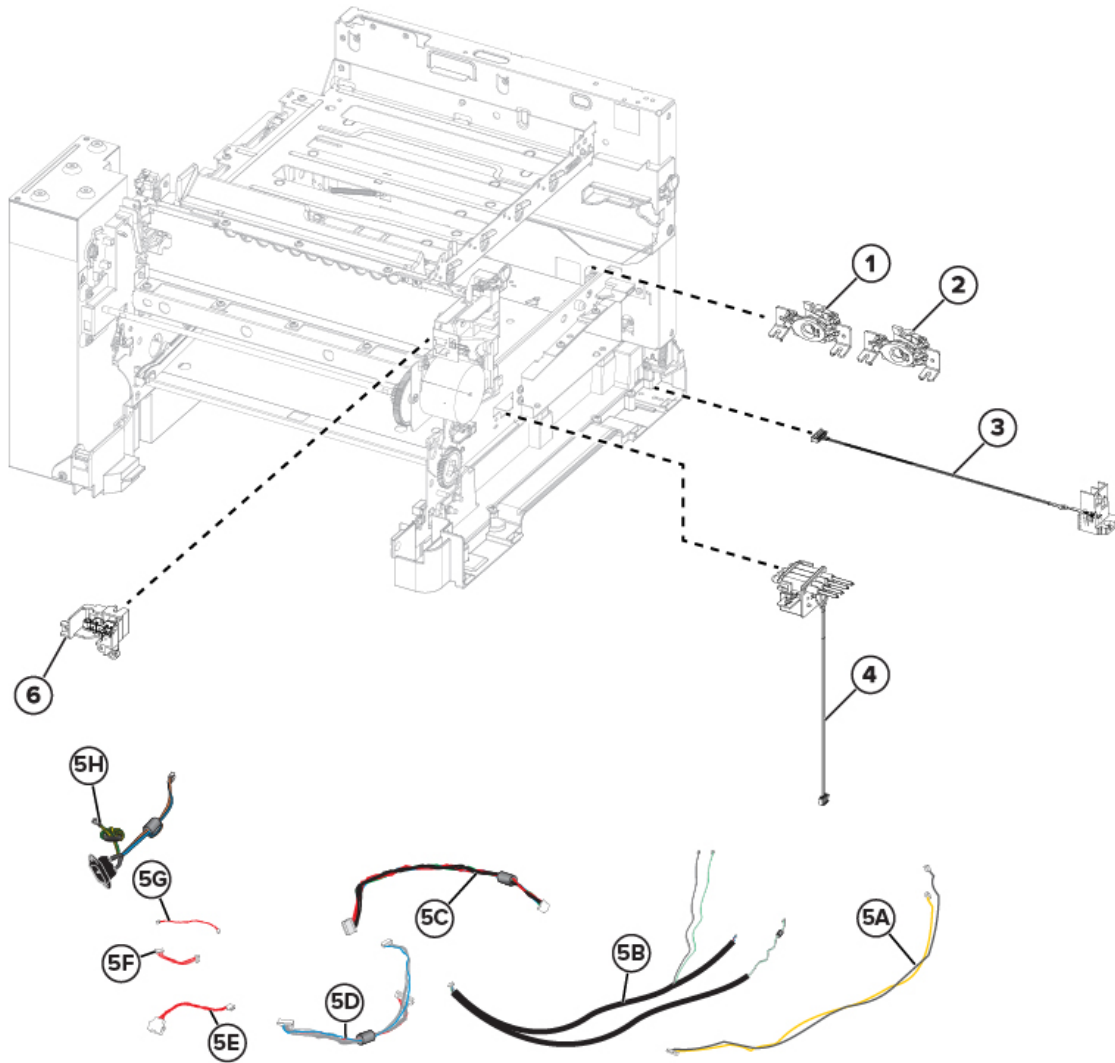


Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	109N00871	1	1	Controller board	Controller board removal
2	128N00557	1	1	Toner meter card	TMC card removal
3	112N00257	1	1	High-voltage power supply	HVPS removal
4	130N01896	4	1	Photo sensors: <ul style="list-style-type: none"> • Sensor (tray present) • Sensor (duplex) 	Sensor (Tray Present) Removal Sensor (Duplex) Removal

Parts Catalog

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
				<ul style="list-style-type: none"> • Sensor (bin full/narrow media) 	Sensor (Narrow Media) Removal
5	130N01909	1	1	Weather station	Weather station removal
6	130N01895	1	1	Sensor (fuser exit)	Sensor (fuser exit) removal
7	105N02355	1	1	Low-voltage power supply (110 / 220V)	LVPS removal

Assembly 5: Cables and Sensors

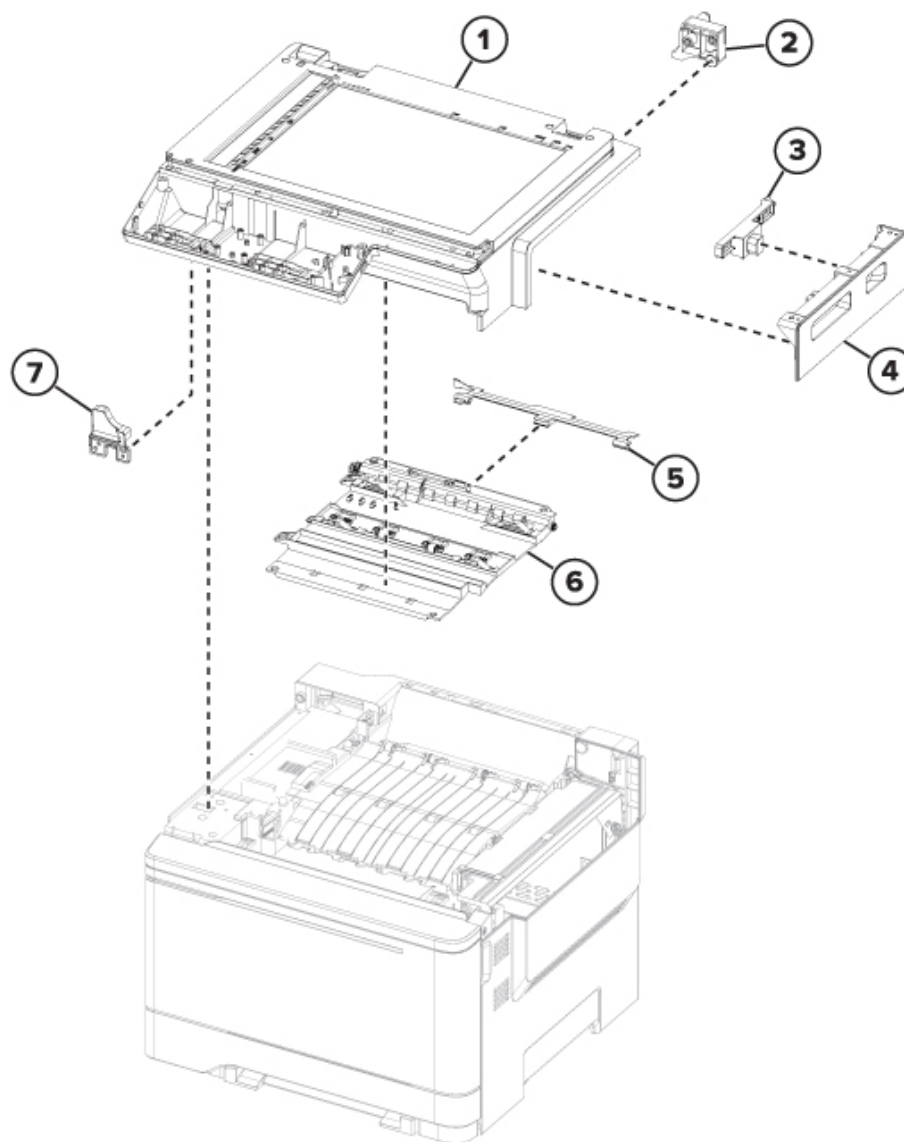


Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	130N01901	1	1	Sensor (left toner patch with thermistor)	Sensors (toner patch) removal
2	130N01903	1	1	Sensor (right toner patch with thermistor)	Sensors (toner patch) removal

Parts Catalog

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
3	014N00521	1	1	Waste toner bottle contact block	Waste toner bottle contact block removal
4	115N00937	4	1	Toner cartridge contact	Toner Cartridge Contacts Removal
5A	126N00450	1	1	Fuser exit narrow media to controller board	–
5B	126N00451	1	1	Fuser/input sensor cable	–
5C	117N02191	1	1	LVPS to controller board cable	–
5D	117N02190	1	1	EP motor to controller board cable	–
5E	109N00858	1	1	Tray 2 to controller board cable	–
5F	117N02193	1	1	HVPS to controller board cable	–
5G	050N00709	1	1	Tray present sensor cable	–
5H	112N00258	1	1	AC power to LVPS cable	–
6	002N03381	1	1	Front and right side interlock switch cover assembly	Interlock Switch Cover Assembly Removal
NS	117N02192	1	1	Weather station cable	Weather station removal

Assembly 6: Scanner

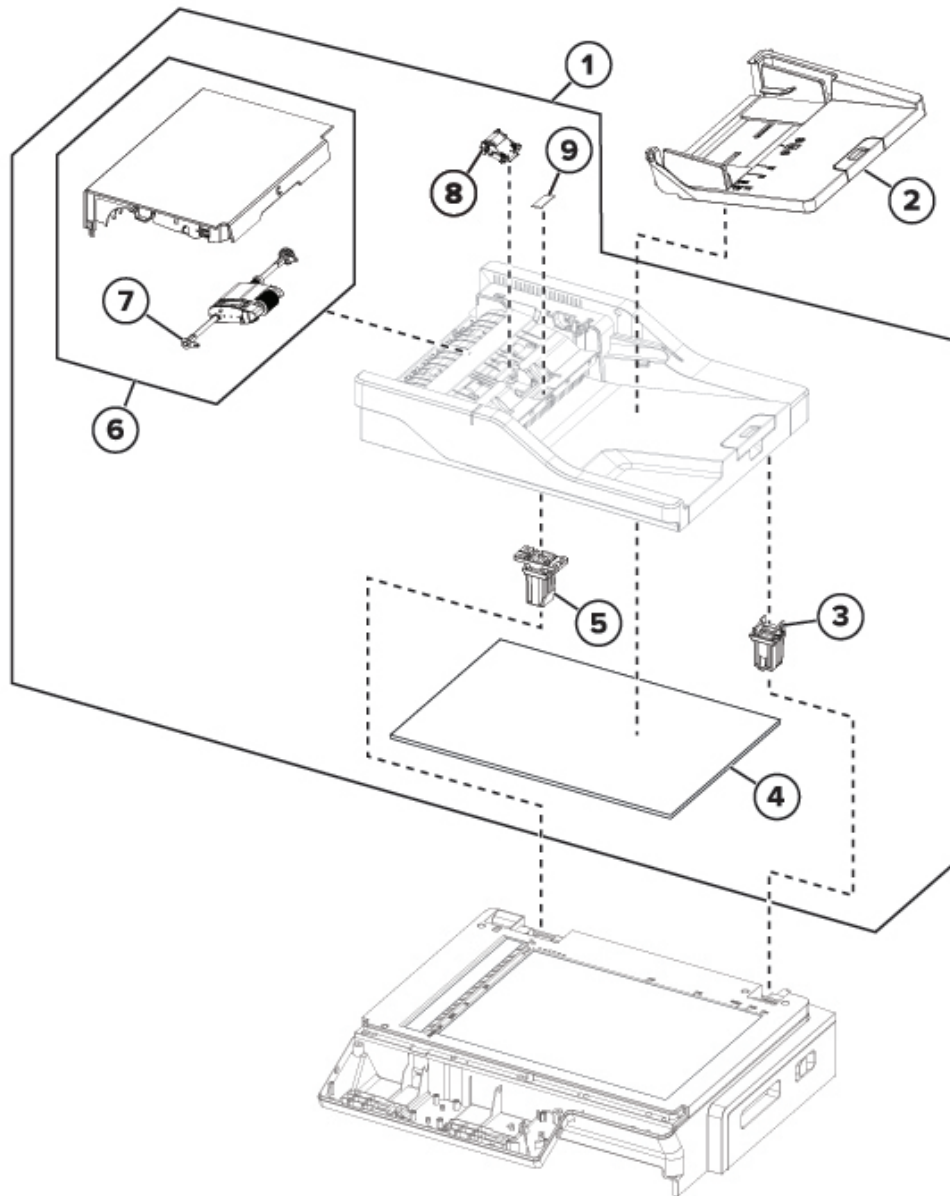


Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	109N00854	1	1	Flatbed scanner assembly	Flatbed Scanner Assembly Removal
2	029N00445	1	1	Flatbed pivot link (rear right)	Flatbed Pivot Link (Rear Right) Removal
3	011N00593	1	1	Release lever	Release Lever Removal

Parts Catalog

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
4	109N00855	1	1	Scanner right cover	Scanner Right Cover Removal
5	120N00570	1	1	Bin full flag	Bin Full Flag Removal
6	007N01852	1	1	Redrive unit	Redrive Unit Removal
7	029N00446	1	1	Flatbed pivot link (front left)	Flatbed Pivot Link (Front Left) Removal
NS	026N00899	2	2	Redrive spacer screws	–

Assembly 7: ADF

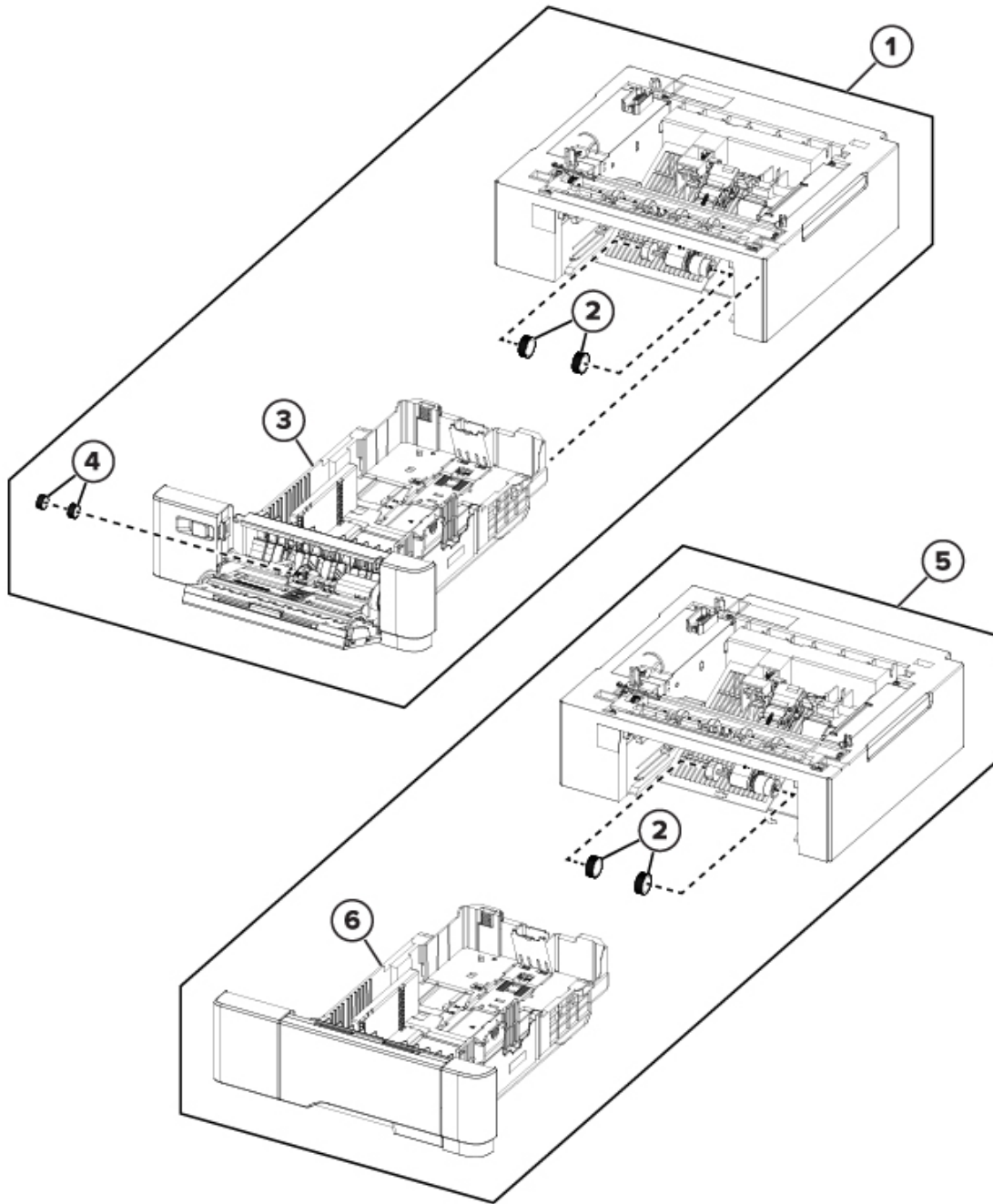


Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	022N02907	1	1	ADF assembly	ADF Assembly Removal (SADF/RADF)
2	050N00720	1	1	ADF tray	ADF Tray Removal
3	003N01190	1	1	ADF right hinge	–

Parts Catalog

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
4	004N00301	1	1	Flatbed cushion	–
5	003N01191	1	1	ADF left hinge	–
6	002N03430	1	1	ADF door	
7	022N02896	1	1	ADF pick roller	–
8	022N02897	1	1	ADF separator roller	ADF Separator Roller Removal
9	019N01153	1	1	ADF restraint pad	–
NS	032N00556	1	1	ADF FFC guide	–

Assembly 8: Option Trays



Parts Catalog


Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	–	1	1	Optional 650-sheet duo tray	650-sheet Duo Tray Removal
2	022N02894	2	2	Pick tires	Pick tire removal
3	016N00349	1	1	650-sheet duo tray insert	
4	022N02895	2	1	650-sheet duo tray MPF rollers	–
5	–	1	1	550-sheet tray	-
6	–	1	1	550-sheet tray insert	-

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.

Mode	Description	Power consumption (Watts)
Printing	The product is generating hard-copy output from electronic inputs.	One-sided: 530 Two-sided: 360
Copy	The product is generating hard-copy output from hard-copy original documents.	485
Scan	The product is scanning hard-copy documents.	28.5
Ready	The product is waiting for a print job.	35
Sleep Mode	The product is in a high-level energy-saving mode.	1.44
Hibernate	The product is in a low-level energy-saving mode.	0.2
Off	The product is plugged into an electrical outlet, but the power switch is turned off.	0.2

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.xerox.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

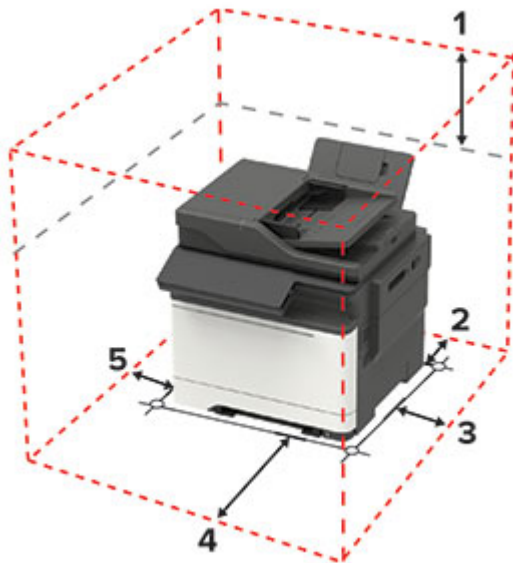
It is sometimes helpful to estimate the total product energy usage. Since power consumption claims are provided in power units of Watts, the power consumption should be multiplied by the time the product spends in each mode in order to calculate energy usage. The total product energy usage is the sum of each mode's energy usage.

Selecting A Location For The Printer

- Leave enough room to open trays, covers, and doors and to install hardware options.
- Set up the printer near an electrical outlet.
- Make sure that airflow in the room meets the latest revision of theASHRAE 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 temperature range.

Operating temperature	10 to 32.2°C (50 to 90°F)
-----------------------	---------------------------

- Allow the following recommended amount of space around the printer for proper ventilation:




1	Top	305 mm (12 in.)
2	Rear	102 mm (4 in.)
3	Right side	76 mm (3 in.)

Printer Specifications

4	Front	508 mm (20 in.) The minimum space needed in front of the machine is 76 mm (3 in.).
5	Left side	76 mm (3 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	53 (one-sided); 55 (two-sided)
Scanning	53
Copying	56
Ready	16

Values are subject to change. See www.xerox.com for current values.

Temperature Information

Operating temperature and relative humidity	10 to 32.2°C (50 to 90°F) and 15 to 80 % RH 15.3 to 32.2°C (60 to 90°F) and 8 to 80 % RH Maximum wet bulb temperature ² : 22.8°C (73°F) Non-condensing environment
Printer / cartridge / imaging unit long-term storage ¹	
Printer / cartridge / imaging unit short-term shipping	-40 to 43.3°C (-40 to 110°F)
<p>¹ Supplies shelf life is approximately 2 years. This is based on storage in a standard office environment at 22°C (72°F) and 45 % humidity.</p> <p>² Wet-bulb temperature is determined by the air temperature and the relative humidity.</p>	


Enabling The Security Reset Jumper

 **Note:**

- Before changing the security settings, ask for permission from your administrator.
- Resetting the printer deletes all security settings.
- For MFPs, replacing the controller board deletes all security settings.
- If LDAP is used to authenticate the copy function in MFPs, then the LDAP configuration and copy function are no longer protected.
- To prevent the tampering of the jumper, secure the controller board cage with a Kensington lock. To disable the effect of the jumper reset, select **No Effect** from the Security Reset Jumper Setting section in the Security menu.
- If Enable Audit is activated from the Security Audit Log in the Miscellaneous section of the Security menu, then the printer logs a message each time the jumper is reset.

To reset the jumper:

1. Turn off the printer.
2. Access the controller board.
3. Locate the jumper at the JSEC1 connector on the controller board.
4. Move the jumper to cover the middle and exposed prongs.

 **Note:** The movement of the jumper triggers the reset, not the jumper position.

5. Turn on the printer.

Options and Features

Available Internal Options

- Memory cards
 - PCIe
 - DDR3 DRAM
 - Flash memory
- Optional cards
 - Font cards
 - Firmware cards
 - Forms and Bar Code
 - PRESCRIBE
- Printer hard disk (SATA)



Note: Some options are available only in some printer models.

Adding Available Options In The Print Driver

For Windows Users

1. Open the printers folder.
2. Select the printer you want to update, and then do either of the following:
 - For Windows 7 or later, select **Printer properties**.
 - For earlier versions, select **Properties**.
3. Navigate to the Configuration tab, and then select **Update Now - Ask Printer**.
4. Apply the changes.

For Macintosh Users

1. From System Preferences in the Apple menu, navigate to your printer, and then select **Options & Supplies**.
2. Navigate to the list of hardware options, and then add any installed options.
3. Apply the changes.

Input/output Configurations and Capacities

Table 11.1 Input sources

Printer model	Number of standard trays	Maximum number of optional trays	Maximum number of trays
C315	2	2	4

Table 11.2 Input capacities

Printer model	Standard tray	Manual slot	Multipurpose feeder capacity*	Total standard capacity	Maximum input capacity
C315	250	1	100	251	1451
Paper capacity means 20-lb xerographic paper at ambient environment per sheet.					
* Available only when a 650-sheet duo tray is installed.					

Table 11.3 Output capacities

Printer model	Standard output capacity	Maximum output capacity
C315	150	150
Paper capacity means 20-lb xerographic paper at ambient environment per sheet.		

Theory Of Operation

Paper Path and Transport Components

For an image to be printed, the paper or specialty media has to move from an input source (such as a tray) into the printer and eventually exit into an output source.

The most important component in this process is the paper itself. Old, damaged, or out-of-specification paper can cause feed and transport problems. If you encounter problems, then always check the paper first. In addition, check the printer and driver settings to see if the paper being used matches the user's settings.

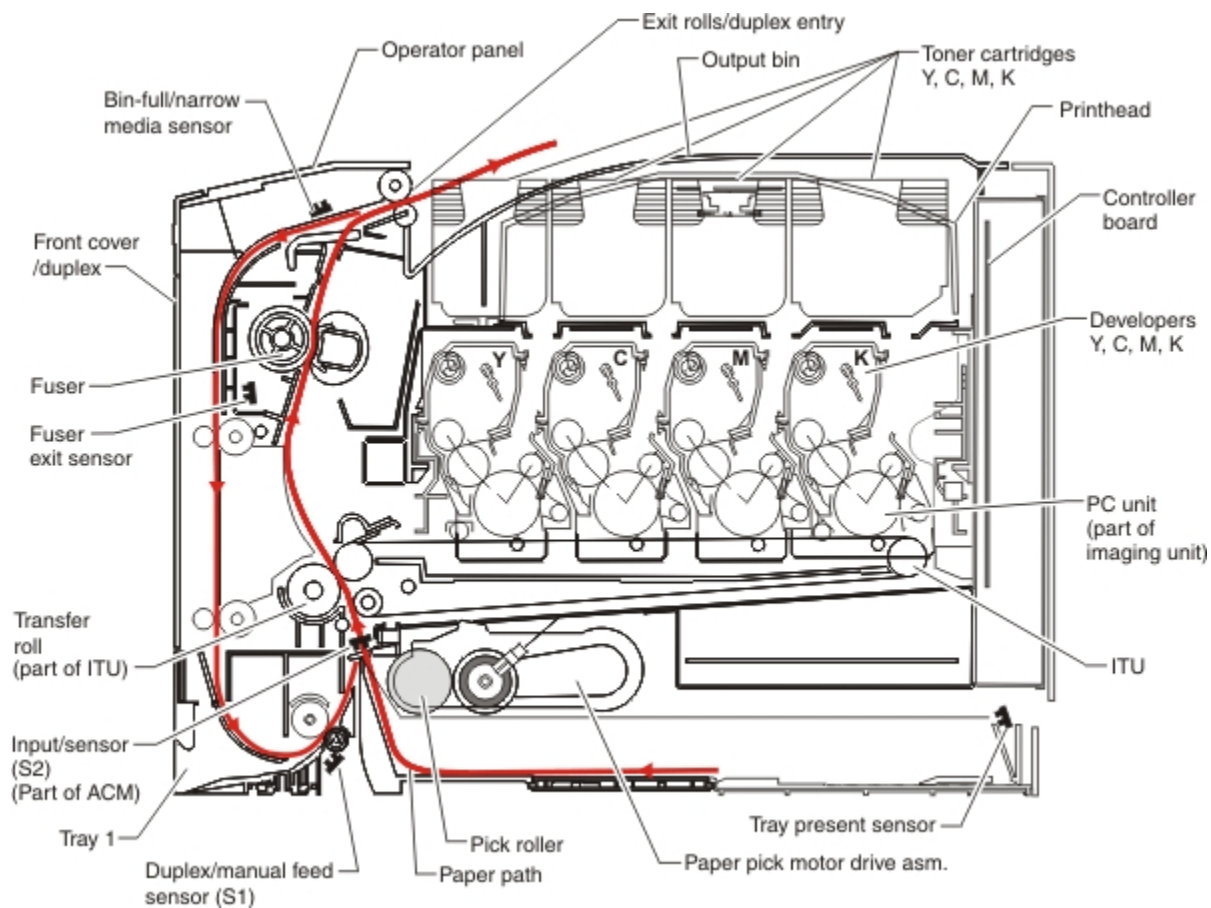
The printer feed and transport components can fail and cause paper jams or other feed and transport problems. These components should be examined for damage or wear and replaced if necessary.


Paper Path Information

The printer has a simple C-shaped paper path. The tray 1 paper is shown in red and the optional 650-sheet duo tray paper path is not shown.

Paper is fed from the rear of the printer and travels upward through the front cover.

The duplex unit is built into the front cover and Tray 1.




 **Note:** The ACM is also known as the paper feed roller assembly.

Transport Components

The paper is fed from the tray into the printer by a pick roll and sent to two sets of feed rollers which time the paper to enter the Electrophotographic Process (EP Process) at just the right moment. The feed rollers push the paper to the transfer module where the image is transferred to the page.


The transfer roller moves the paper to the fuser where heat and pressure are applied to the page. The fuser rollers push the paper toward the exit bin and past the exit sensor. The exit rollers guide the paper into the output bin.

 **Note:** If the printer posts a paper jam message but no paper is found, then paper dust or paper particles may have fallen into one of the sensor eyes. Use a can of compressed air to gently clean the sensor.

Duplexing

Printers with duplex support use a secondary paper path to print on the second side of a sheet of paper. The duplexing process is summarized as follows:

After the first side of the paper is printed and the trailing edge of the paper clears the fuser exit sensor, the fuser motor engages to reverse the paper direction and feed it into the duplex unit. The pick motor also reverses. The pick motor drives the duplex aligner rolls (A), which push the media down to the bottom turnaround in the paper tray and gate aligner (B).

 **Note:** While the sheet is being transported through the duplex unit, it is the only sheet of paper being processed by the print engine. A user should not attempt to insert a sheet of paper into the manual paper feed while a duplex job is being processed. This would cause a paper jam error.

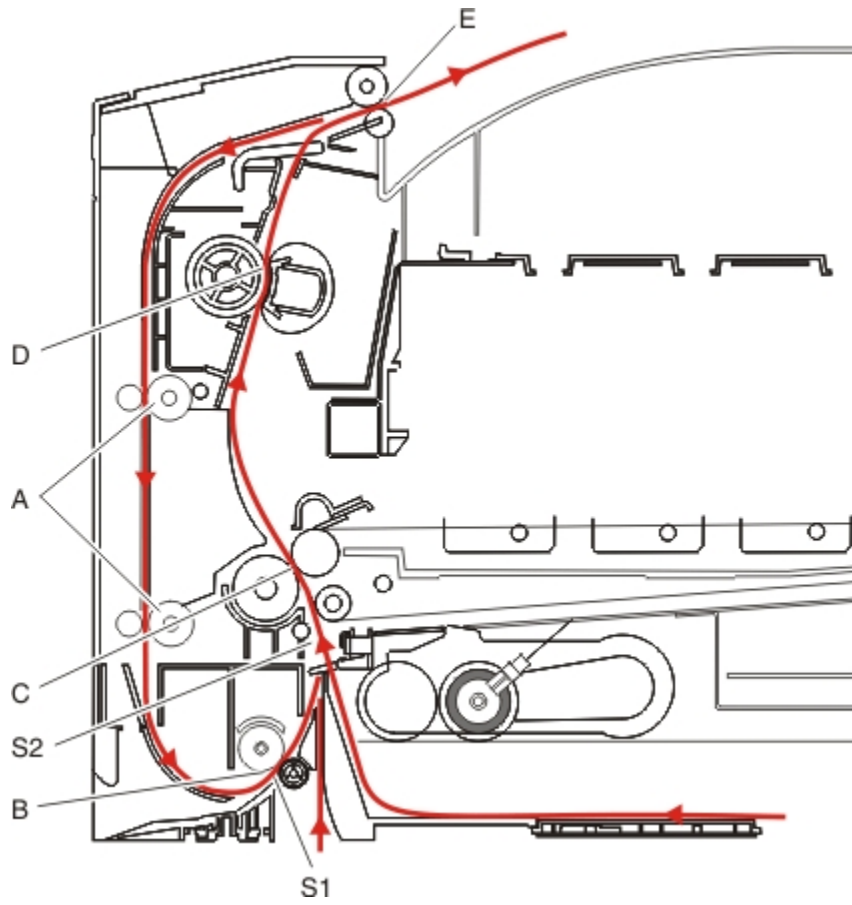
When the trailing edge of the media clears the fuser, the fuser engine rotates forward to prepare the fuser for the page traveling through the duplex unit.

As the media reaches the gate aligner, a sensor (S1) is triggered, indicating the presence of the leading edge.

When the S1 sensor is triggered, the paper continues to the (S2) sensor. When the S2 signal is detected, the speed of the pick motor is adjusted to accommodate the speed of the transfer belt, ensuring the proper registration of the image on the media. The paper travels to the transfer module (C), and the second image is transferred to the reverse side of the media.

Once the image is transferred, the media travels to the fuser (D), the fuser exit rolls (E), and then to the output bin.

Theory Of Operation



Print Engine Theory

Electrophotographic Process (EP Process)

The method that all laser and LED printers use to print is called the electrophotographic process. These machines use differences in charge to manipulate and move toner from the print cartridge to the printed page.

Even though the basic EP process is the same for every laser and LED printer, the specifics for each printer are different.

Electrophotographic Process Basics

This printer is a single-laser printer that uses four print cartridges (cyan, yellow, magenta, and black) to create text and images on paper.

The printer has four photoconductor units (sometimes called a photodeveloper cartridge or PC unit) built into the print cartridges and transfer module. Each color toner is painted to its respective photoconductor unit at the same time. The transfer belt passes under the four photoconductor units and the four-color image is produced and transferred to the paper in one pass.

During the printing process, the printer follows the six basic EP process steps to create its output to the page.

1. Charge the photoconductor units.
2. Expose the photoconductor units with the laser.
3. Develop toner on the photoconductor units.
4. First transfer to the transfer module, and second transfer to the paper.
5. Fuse the toner to the paper.
6. Clean/erase the photoconductor units and the transfer module.

In summary, the printer controller board receives print data and the command to print. The controller board then initiates the print process. The controller board is the command center for the EP process and coordinates the various motors and signals.

The high-voltage power supply (HVPS) sends charge to various components in the EP process. The laser fires on the photoconductor units and alters the surface charge relative to the planned image for each photoconductor unit. Each photoconductor unit rotates past its respective developer roll, and toner is developed on the surface of each photoconductor unit. The four separate color images are then transferred to the transfer belt on the transfer module as it passes under the photoconductors. After the image is transferred to the transfer belt, the photoconductor units are cleaned and recharged.

The transfer belt carries the four-colored image towards the transfer rollers. Paper is picked up from the tray and carried to the transfer roll where the image is transferred from the transfer belt to the paper. The timing of the paper pick is determined by the speed of the transfer belt.

The paper is carried to the fuser rollers where heat and pressure are applied to the page to permanently bond the toner to the page. The fuser rollers push the paper into the output bin. The transfer unit is cleaned and the process begins again for the next page.

Step 1: Charge

During the charge step, voltage is sent from the HVPS to the charge roller beside each of the four photoconductor units. In this printer, the charge roll is part of the photoconductor unit in the print cartridges.

The charge roller puts a uniform negative charge over the entire surface of the photoconductor unit to prepare it for the laser beam.

Step 2: Expose

During the expose step, the laser fires a focused beam of light at the surface of each photoconductor unit and writes an invisible image, called a latent image or electrostatic image, for each color.

The laser beam discharges only the surface where the beam hits the photoconductor unit. This discharge creates a difference in charge potential between the exposed area and the rest of the photoconductor unit surface.

Step 3: Develop

When the laser exposes the photoconductor unit, the HVPS sends charge to the developer roll. For each color, the print cartridge engages the photoconductor unit so it is in contact with the surface. Because of the charge difference between the toner on the developer roller and the electrostatic image created by the laser, the toner is attracted to areas of the photoconductor unit surface exposed by the laser.

This process is similar to using glue to write on a can and then rolling it over glitter. The glitter sticks to the glue but does not stick to the rest of the can.

Step 4a: First Transfer

When the latent images are developed on each photoconductor unit, the HVPS sends voltage to the first transfer rollers inside the transfer module.

The charge difference between the developed toner image on the photoconductor unit surface and the first transfer roller causes the images to transfer to the surface of the transfer belt for each color. This transfer occurs during a direct surface-to-surface contact between the photoconductor units and the transfer belt.

Step 4b: Second Transfer

When the four planes of color are transferred to the transfer belt from the photoconductor units, the image is carried toward the transfer roller, which is also part of the transfer module. Based on the speed of the transfer belt, the proper time to send the signal to pick the paper from an input source is determined. The pick is timed so that the paper passes between the transfer belt and transfer roller when the image on the belt reaches the second transfer area.

The HVPS sends voltage to the transfer roller to create a positive charge. When the image on the transfer belt reaches the transfer roller, the negatively charged toner clings to the paper, and the entire image is transferred from the transfer belt to the paper.

Step 5: Fuse

When the image has been fully transferred to the paper, the transfer roller helps move the paper into the fuser area.

The fuser applies heat and pressure to the page to melt the toner particles and bond them permanently to the paper. The fuser moves the paper to the redrive rolls which move the paper to the output bin.

Step 6: Clean/erase

Two main cleaning processes take place during the EP process. One process cleans the transfer belt, and the other cleans the photoconductor units.

Transfer module clean

When the toner image on the transfer belt has been transferred to the page, the transfer belt rotates around and is cleaned by the cleaning blade. The cleaning occurs for every page that is printed.

After the toner is moved to the cleaning blade, the toner is moved to the waste toner area using an auger system.

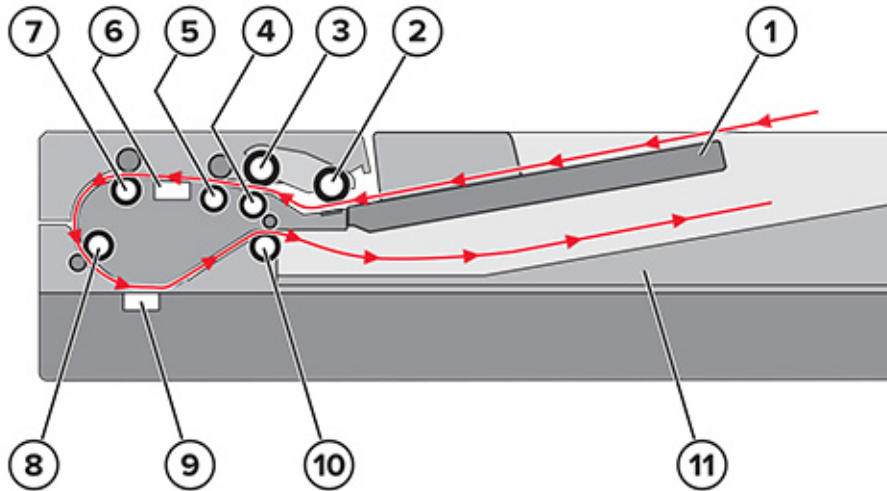
Photoconductor clean/erase

After each plane of color has been transferred to the transfer belt from the photoconductor units, a cleaning blade scrapes the remaining toner from the surface of each photoconductor unit.

The photoconductor unit surface is prepared to restart the EP process. This cleaning/erasing cycle happens after each plane of color is transferred to the transfer belt.

ADF and Flatbed Scanner Theory

DADF Paper Path




1	ADF tray
2	Pick roller
3	Feed roller
4	Separator roller
5	Deskew roller
6	First scan area
7	Transport roller 1
8	Transport roller 2
9	Second scan area
10	Exit roller
11	ADF bin

After the sensor (ADF paper present) detects paper in the ADF tray, the pick roller drops and advances the paper into the ADF.

The paper passes through the feed roller and separator roller. The separator roller minimizes the possibility of feeding multiple sheets.

The paper then actuates the sensors (pick and deskew). The sensor (pick) detects the leading edge of the paper and adjusts the pick/feed timings while the sensor (deskew) detects the paper for any skew. The deskew roller slows down the paper to perform the skew correction.

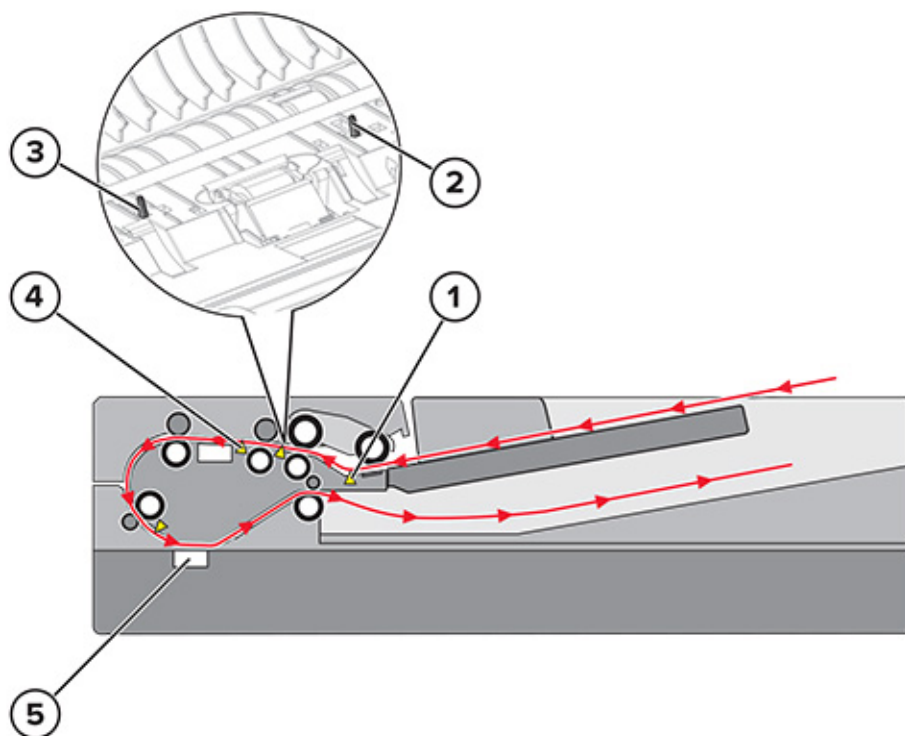
 **Note:** The motor (pick) runs the pick and feed rollers.

For duplex scan jobs, the paper actuates the sensor (ADF first scan) and proceeds to the first scan area. Failure to actuate the sensor results to a paper jam error. The back side of the document is scanned.

The transport rollers continue to advance the paper until it actuates the sensor (ADF second scan) and reaches the second scan area. For simplex or duplex scan jobs, the front side of the document is scanned on the second scan area.

The exit roller picks and drops the paper into the ADF bin. The motor (transport) runs the transport, deskew, and exit rollers.

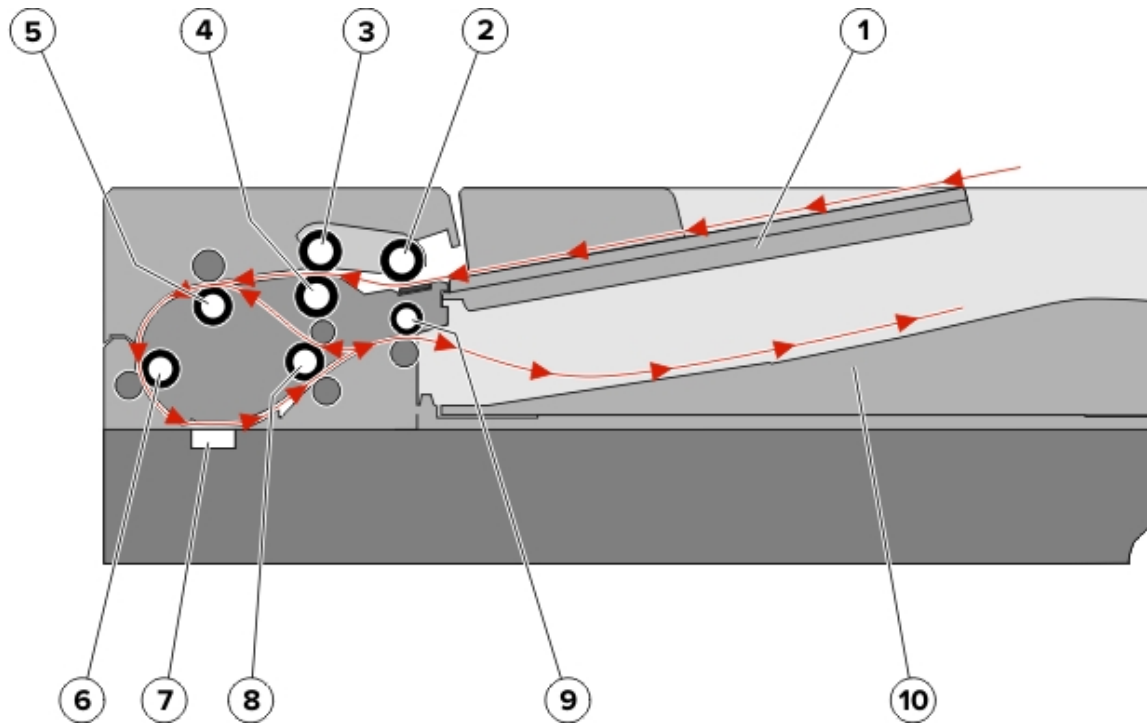
DADF Paper Path Sensors



#	Sensor	Function
1	ADF paper present	<ul style="list-style-type: none"> • Detects paper presence in the ADF tray • Raises the pick arm after the last sheet to prepare for the next batch of scanning
2	ADF pick	Detects the leading edge of the incoming sheet and adjusts pick/feed timings
3	ADF skew	Detects skew of the incoming sheet and applies necessary deskew algorithm

#	Sensor	Function
4	ADF first scan	Detects the paper about to be scanned at its back side
5	ADF second scan	Detects the paper about to be scanned at its front side

RADF Paper Path




1	ADF tray
2	Pick roller
3	Feed roller
4	Separator roller
5	Deskew roller
6	Transport roller
7	Scan area
8	Exit roller 1
9	Exit roller 2
10	ADF bin

After the sensor (ADF paper present) detects paper in the ADF tray, the pick roller drops and advances the paper into the ADF.

The paper passes through the feed roller and separator roller. The separator roller minimizes the possibility of feeding multiple sheets.

The paper then actuates the sensors (pick and deskew). The sensor (pick) detects the leading edge of the paper and adjusts the pick/feed timings while the sensor (deskew) detects the paper for any skews. The deskew roller slows down the paper to perform the skew correction.

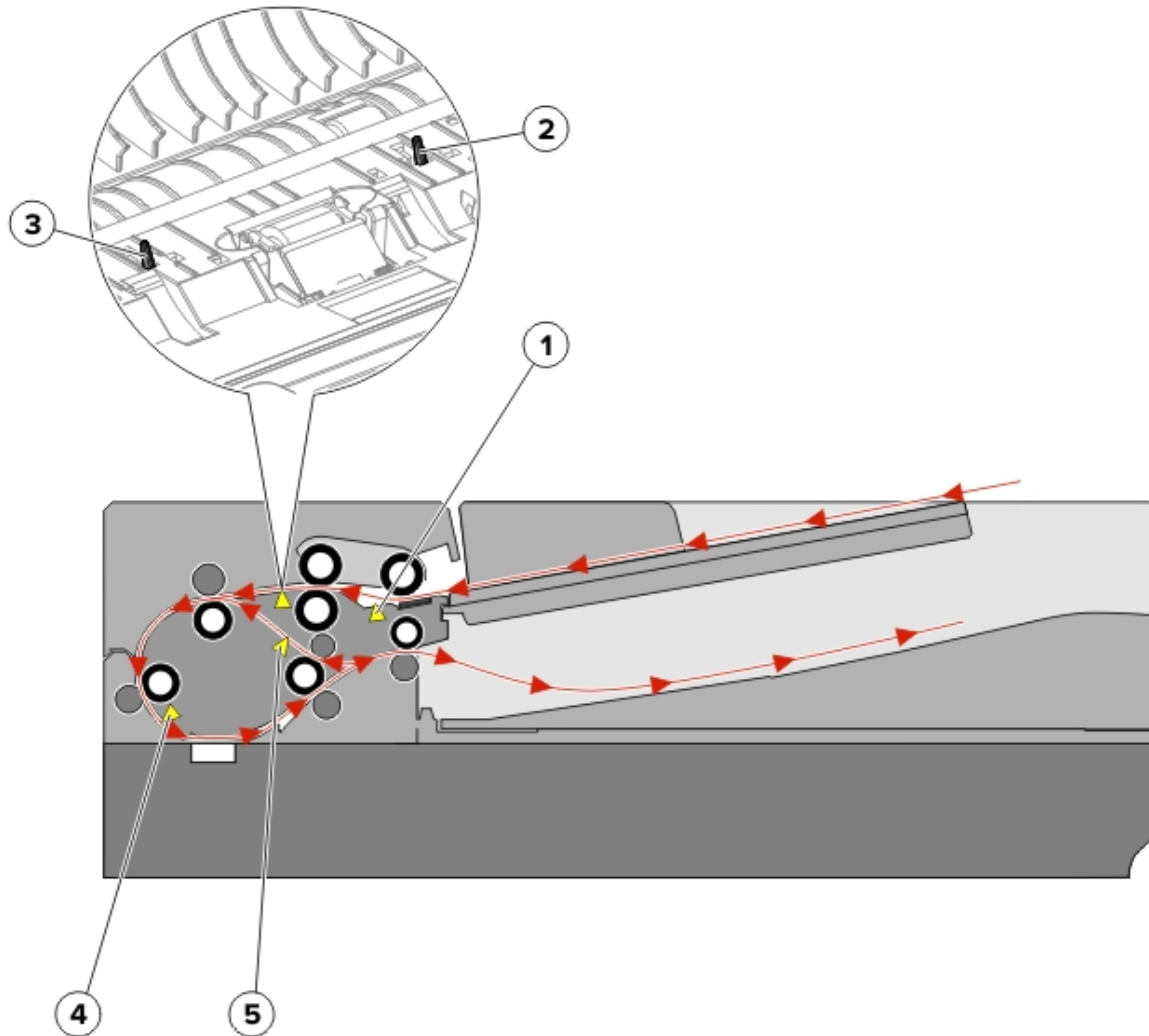
 **Note:** The motor (pick) runs the pick and feed rollers.

After the skew correction is completed, the transport roller advances the paper to the scan area. But before the image acquisition process can start, the paper must actuate the sensor (ADF scan). Failure to actuate the sensor results in a paper jam. The first side of the document is scanned.

If the scan job is simplex, then exit roller 1 advances the paper until it is picked up and moved by exit roller 2 into the ADF bin. The motor (transport) runs the transport, deskew, and exit rollers.

If the scan job is duplex, then the motor (pick) rotation is reversed such that exit roller 2 pulls the paper back into the ADF. The paper actuates the sensor (ADF pick), and then moves until it reaches the scan area for the second time. Like the first pass of the paper, the image acquisition process is repeated for the second side of the paper. Before the paper exits, it goes back again to the ADF for the third time, but no imaging occurs. This pass is to turn the paper over to the original side up. On the third pass of the paper, exit roller 2 does not reverse and the paper passes out of the ADF.

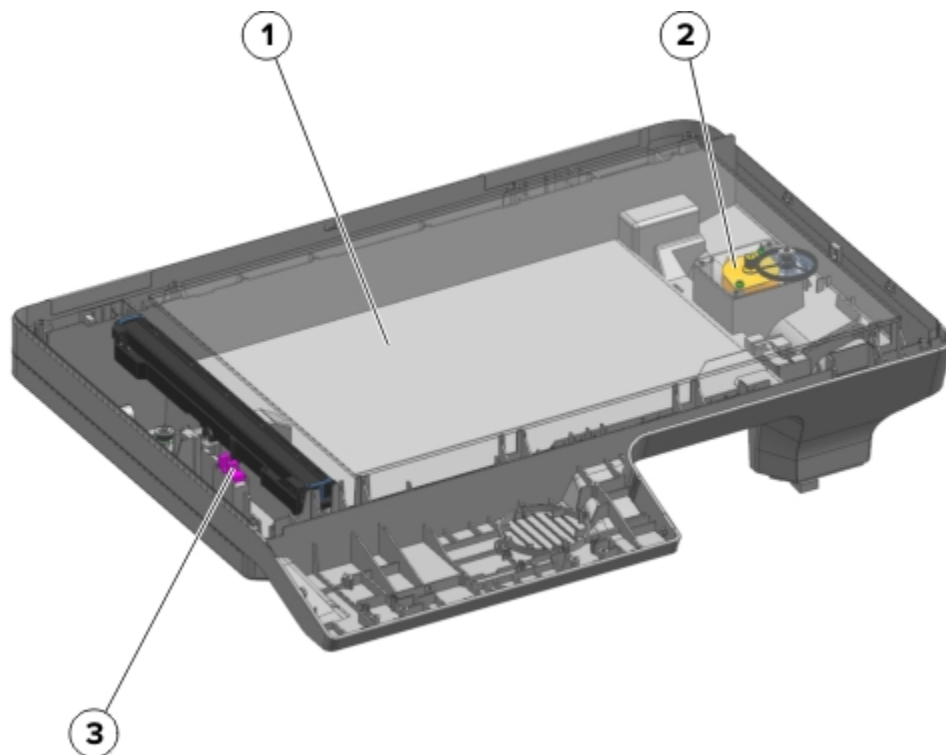
RADF Paper Path Sensors



#	Sensor	Function
1	ADF paper present	<ul style="list-style-type: none"> • Detects paper presence in the ADF tray • Raises the pick arm after the last sheet to prepare for the next batch of scanning
2	ADF pick	Detects the leading edge of the incoming sheet and adjusts pick/feed timings
3	ADF skew	Detects skew of the incoming sheet and applies necessary deskew algorithm

#	Sensor	Function
4	ADF scan	Detects the paper about to be scanned
5	ADF duplex	Detects the leading edge of the paper for duplex scanning

Flatbed Scanner Drive



1	Scanner glass
2	Motor (FB scanner)
3	Sensor (FB CIS home)

The flatbed scanner has a scanner lamp that is used to illuminate the surface of the document. The reflections produced are processed to create the scan image.

For flatbed scan jobs, the flatbed scanner moves across the scanner glass area to scan the front side of the document (facedown). The motor (FB scanner) controls the scanner position. The scanner is detected at its home position by the sensor (FB CIS home).

For ADF scan jobs, the flatbed scanner stays at the left to scan the document.

Color Theory

Color Theory

What Is RGB Color?

Red, green, and blue light can be added together in various amounts to produce a large range of colors observed in nature. For example, red and green can be combined to create yellow. Televisions and computer monitors create colors in this manner. RGB color is a method of describing colors by indicating the amount of red, green, or blue needed to produce a certain color.

What Is CMYK Color?

Cyan, magenta, yellow, and black inks or toners can be printed in various amounts to produce a large range of colors observed in nature. For example, cyan and yellow can be combined to create green. Printing presses, inkjet printers, and color laser printers create colors in this manner. CMYK color is a method of describing colors by indicating the amount of cyan, magenta, yellow, and black needed to reproduce a particular color.

How Is Color Specified In A Document To Be Printed?

Software programs typically specify document color using RGB or CMYK color combinations. They also allow users to modify the color of each object in a document. For more information, see the software program Help topics.

How Does The Printer Know What Color To Print?

When a user prints a document, information describing the type and color of each object is sent to the printer. The color information is passed through color conversion tables that translate the color into the appropriate amounts of cyan, magenta, yellow, and black toner needed to produce the desired color. The object information determines the application of color conversion tables. For example, one type of color conversion table can be applied to text while applying a different color conversion table to photographic images.

Should I Use Postscript or PCL Emulation? What Settings Produce The Best Color?

We recommend the PostScript driver for best color quality. The default settings in the PostScript driver provide the preferred color quality for the majority of printouts.

Why Doesn't The Printed Color Match The Color I See On The Computer Screen?

The color conversion tables used in Auto Color Correction mode generally approximate the colors of a standard computer monitor. However, because of technology differences that exist between printers and monitors, many colors can also be affected by monitor variations and lighting conditions.

The Printed Page Appears Tinted. Can I Adjust The Color?

Sometimes a printed page may appear tinted (for example, everything looks too red). This tint can be caused by environmental conditions, paper type, lighting conditions, or user preference. Adjust the Color Balance setting to create a more preferable color. Color Balance lets the user make subtle adjustments to the amount of toner being used in each color plane. Selecting positive or negative values for cyan, magenta, yellow, and black (from the Color Balance menu) can slightly increase or decrease the amount of toner used for the chosen color. For example, if a printed page has a red tint, then decreasing both magenta and yellow can improve the color balance.

What Is Manual Color Correction?

When manual color correction is enabled, the printer uses user-selected color conversion tables to process objects. However, Color Correction must be set to Manual, or no user-defined color conversion can be implemented. Manual color correction settings are specific to the type of object being printed (text, graphics, or images), and how the color of the object is specified in the software program (RGB or CMYK combinations).

Note:

- Manual color correction is not useful if the software program does not specify colors with RGB or CMYK combinations. It is also not effective in situations in which the software program or the computer operating system controls the adjustment of colors.
- The color conversion tables—applied to each object when Color Correction is set to Auto—generate preferred colors for the majority of documents.

To manually apply a different color conversion table:

1. From the home screen, touch **Settings > Print > Quality > Advanced Imaging > Color Correction**.
2. Select **Manual**, and then touch **Color Correction Content**.
3. Select the appropriate color conversion table for the affected object type.

Object type	Color conversion tables
RGB Image RGB Text RGB Graphics	<ul style="list-style-type: none"> • Vivid—Produces brighter, more saturated colors and may be applied to all incoming color formats. • sRGB Display—Produces an output that approximates the colors shown on a computer monitor. Black toner usage is optimized for printing photographs. • Display—True Black—Produces an output that approximates the colors shown on a computer monitor. Uses only black toner to create all levels of neutral gray. • sRGB Vivid—Provides an increased color saturation for the sRGB display color correction. Black toner usage is optimized for printing business graphics. • Off—No color correction is implemented.
CMYK Image CMYK Text CMYK Graphics	<ul style="list-style-type: none"> • US CMYK—Applies color correction to approximate the SWOP (Specifications for Web Offset Publishing) color output. • Euro CMYK—Applies color correction to approximate EuroScale color output. • Vivid CMYK—Increases the color saturation of the US CMYK color correction setting. • Off—No color correction is implemented.

How Can I Match A Particular Color (such As A Corporate Logo)?


From the printer Quality menu, nine types of Color Samples sets are available. These sets are also available in the Color Samples page of the Embedded Web Server. Selecting any sample set generates a multiple-page printout consisting of hundreds of colored boxes. Either a CMYK or RGB combination is located on each box, depending on the table selected. The observed color of each box is obtained by passing the CMYK or RGB combination labeled on the box through the selected color conversion table.

To print color sample pages:

1. From the home screen, touch **Settings > Print > Quality > Advanced Imaging > Color Samples > Print Color Samples**.
2. Select the appropriate color conversion table to print.

By examining Color Samples sets, a user can identify the box whose color is the closest to the desired color. The color combination labeled on the box can then be used for modifying the color of the object in a software program. For more information, see the software program Help topics. Manual color correction may be used for the selected color conversion table for the particular object.

Selecting which Color Samples set to use for a particular color-matching problem depends on the Color Correction setting being used (Auto, Off, or Manual), the type of object being printed (text, graphics, or images), and how the color of the object is specified in the software program (RGB or CMYK combinations). When the printer Color Correction setting is set to Off, the color is based on the print job information; and no color conversion is implemented.


 **Note:** The Color Samples pages are not useful if the software program does not specify colors with RGB or CMYK combinations. The software program or the computer operating system sometimes may adjust the RGB or CMYK combinations specified in the program through color management. The resulting printed color may not be an exact match of the Color Samples pages.

What Are Detailed Color Samples and How Do I Access Them?

Detailed Color Samples sets are available in the Embedded Web Server of a network printer. A detailed Color Samples set contains a range of shades (shown as colored boxes) that are similar to a user-defined RGB or CMYK value. The likeness of the colors in the set are dependent on the value entered in the RGB or CMYK Increment box.

To access a detailed Color Samples set from the Embedded Web Server:

1. From the home screen, touch **Settings > Print > Quality > Advanced Imaging > Color Samples > Print Color Samples**.
2. Select **Advanced** to narrow the set to one color range.
3. Select the appropriate color conversion table to print.
4. Enter the RGB or CMYK color number.
5. Enter an increment value from 1 to 255.

 **Note:** The closer the value is to 1, the narrower the color sample range appears.

6. Select **Print**.

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
CIS	Contact Image Sensors
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	Electrophotographic Process
EPROM	Erasable Programmable Read-Only Memory
ESD	Electrostatic Discharge
FRU	Field Replaceable Unit
GB	Gigabyte
HCF	High-Capacity Feeder
HCIT	High-Capacity Input Tray
HCOF	High-Capacity Output Finisher
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	Multifunction Printer

MPF	Multipurpose Feeder
MROM	Masked Read Only Memory
MS	Microswitch
NVM	Non-volatile Memory
NVRAM	Non-volatile 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
UICC	User Interface Controller Card
UPR	Used Parts Return
V ac	Volts alternating current
V dc	Volts direct current
VTB	Vacuum Transport Belt
Y	Yellow

Acronyms

Part Number Index

P/N	Part name
001N00593	Lower right subframe
001N00594	Lower left subframe
001N00595	Sub-frame foot
002N03375	4.3-inch control panel base cover
002N03376	Toner cover with damper
002N03380	4.3-inch control panel assembly
002N03381	Front and right side interlock switch cover assembly
002N03383	Blank control panel badge cover
002N03386	Rear cover
002N03417	Left cover
002N03418	MFP cable cover
002N03419	Top cover with fan
002N03420	Right cover
002N03421	Front middle cover
002N03423	Front door
002N03430	ADF door
003N01189	Door straps
003N01190	ADF right hinge
003N01191	ADF left hinge
004N00301	Flatbed cushion
007N01851	EP drive assembly
007N01852	Redrive unit
011N00593	Release lever
012N00548	MFP link
014N00521	Waste toner bottle contact block
016N00349	650-sheet duo tray insert
019N01153	ADF restraint pad
022N02894	Pick tires

Part Number Index

P/N	Part name
022N02895	650-sheet duo tray MPF rollers
022N02896	ADF pick roller
022N02897	ADF separator roller
022N02898	Media feeder
022N02907	ADF assembly
026N00899	Redrive spacer screws
029N00445	Flatbed pivot link (rear right)
029N00446	Flatbed pivot link (front left)
030N00826	Front bracket cover
030N00827	Front toner door pivot bracket
031N00249	Control panel rotation arm
032N00556	ADF FFC guide
046N00241	Printhead
050N00709	Tray present sensor cable
050N00718	250-sheet tray
050N00720	ADF tray
050N00721	Output bin
055N00336	Right fuser deflector
056N00215	4.3-inch control panel bezel
105N02355	Low-voltage power supply (110 / 220V)
109N00848	Scanner top front cover
109N00854	Flatbed scanner assembly
109N00855	Scanner right cover
109N00858	Tray 2 to controller board cable
109N00871	Controller board
112N00257	High-voltage power supply
112N00258	AC power to LVPS cable
115N00937	Toner cartridge contact
117N02185	Control panel power cable
117N02186	USB cable

P/N	Part name
117N02189	Subframe cable cover
117N02190	EP motor to controller board cable
117N02191	LVPS to controller board cable
117N02192	Weather station cable
117N02193	HVPS to controller board cable
117N02202	4.3-inch control panel ribbon cable
120N00570	Bin full flag
126N00450	Fuser exit narrow media to controller board
126N00451	Fuser/input sensor cable
126N00456	110 V Fuser
126N00457	220 V Fuser
127N07961	Motor (fuser drive)
127N07965	System fan
128N00557	Toner meter card
130N01895	Sensor (fuser exit)
130N01896	Photo sensors
130N01899	Headphone cable with clip
130N01900	Speaker
130N01901	Sensor (left toner patch with thermistor)
130N01902	Narrow media sensor flag
130N01903	Sensor (right toner patch with thermistor)
130N01909	Weather station
133N23274	Transfer module guide
133N23275	Transfer module

Part Number Index

Part Name Index

P/N	Part name
126N00456	110 V Fuser
126N00457	220 V Fuser
050N00718	250-sheet tray
002N03380	4.3-inch control panel assembly
002N03375	4.3-inch control panel base cover
056N00215	4.3-inch control panel bezel
117N02202	4.3-inch control panel ribbon cable
016N00349	650-sheet duo tray insert
022N02895	650-sheet duo tray MPF rollers
112N00258	AC power to LVPS cable
022N02907	ADF assembly
002N03430	ADF door
032N00556	ADF FFC guide
003N01191	ADF left hinge
022N02896	ADF pick roller
019N01153	ADF restraint pad
003N01190	ADF right hinge
022N02897	ADF separator roller
050N00720	ADF tray
120N00570	Bin full flag
002N03383	Blank control panel badge cover
117N02185	Control panel power cable
031N00249	Control panel rotation arm
109N00871	Controller board
003N01189	Door straps
007N01851	EP drive assembly
117N02190	EP motor to controller board cable

Part Name Index

P/N	Part name
004N00301	Flatbed cushion
029N00446	Flatbed pivot link (front left)
029N00445	Flatbed pivot link (rear right)
109N00854	Flatbed scanner assembly
002N03381	Front and right side interlock switch cover assembly
030N00826	Front bracket cover
002N03423	Front door
055N00338	Front door inner deflector
002N03421	Front middle cover
030N00827	Front toner door pivot bracket
126N00450	Fuser exit narrow media to controller board
126N00451	Fuser/input sensor cable
130N01899	Headphone cable with clip
112N00257	High-voltage power supply
117N02193	HVPS to controller board cable
002N03417	Left cover
105N02355	Low-voltage power supply (110 / 220V)
001N00594	Lower left subframe
001N00593	Lower right subframe
117N02191	LVPS to controller board cable
022N02898	Media feeder
002N03418	MFP cable cover
012N00548	MFP link
127N07961	Motor (fuser drive)
130N01902	Narrow media sensor flag
050N00721	Output bin
130N01896	Photo sensors
022N02894	Pick tires
022N02894	Pick tires
046N00241	Printhead
002N03386	Rear cover
026N00899	Redrive spacer screws

P/N	Part name
007N01852	Redrive unit
011N00593	Release lever
002N03420	Right cover
055N00336	Right fuser deflector
109N00855	Scanner right cover
109N00848	Scanner top front cover
130N01895	Sensor (fuser exit)
130N01901	Sensor (left toner patch with thermistor)
130N01903	Sensor (right toner patch with thermistor)
130N01900	Speaker
001N00595	Sub-frame foot
117N02189	Subframe cable cover
127N07965	System fan
115N00937	Toner cartridge contact
002N03376	Toner cover with damper
128N00557	Toner meter card
002N03419	Top cover with fan
133N23275	Transfer module
133N23274	Transfer module guide
109N00858	Tray 2 to controller board cable
050N00709	Tray present sensor cable
117N02186	USB cable
014N00521	Waste toner bottle contact block
130N01909	Weather station
117N02192	Weather station cable

Part Name Index

