# SHARP SERVICE MANUAL



# DIGITAL MULTIFUNCTIONAL SYSTEM

# MX-B557F MODEL MX-B707F

CODE:00ZMXB557FS3E

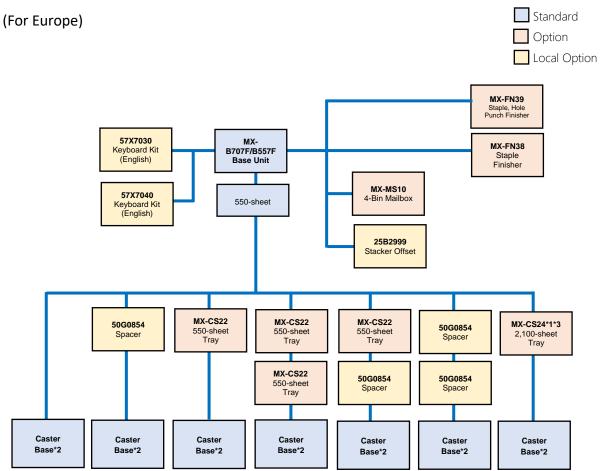
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Parts marked with " $\Delta$ " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

# SHARP CORPORATION

This document has been published to be used for after sales service only. The contents are subject to change without notice.

# [1] PRODUCT OUTLINE



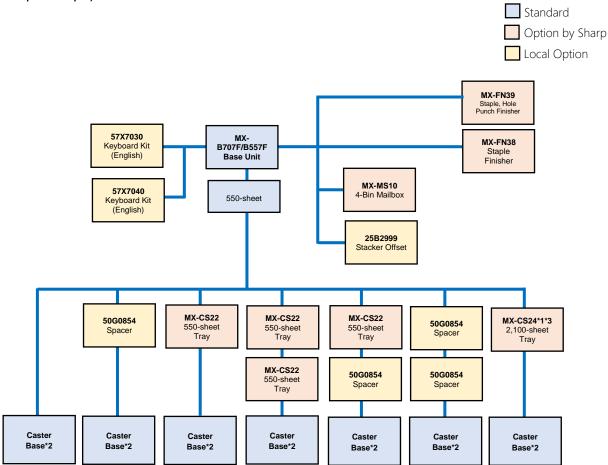
\*1: Optional 2,100-sheet Tray MX-CS24 requires Caster Base.

\*2: Must be removed for desktop use.

\*3: Can not be installed for desktop use.

Product Name	Description	MX-B707F/MX-B557F
MX-CS22	550-Sheet Tray	•
MX-CS24	2100-Sheet Tray	•
MX-FN38	Staple Finisher	•
MX-FN39	Staple, Hole Punch Finisher	•
L2025A0013	Staple Cartridge 3-pack (15K)	•
MX-MS10	4-Bin Mailbox	•
25B2999	Stacker offset	<ul> <li>(Local Option)</li> </ul>
50G0854	Spacer	• (Local Option)
57X7030	Keyboard kit (English)	• (Local Option)
57X7040	Keyboard kit (English)	• (Local Option)
27X0142	Print server fiber Ethernet N8230	<ul> <li>(Local Option)</li> </ul>
L2027X6410	Print server 802.11b/g/n/ac N8372 (front)	•
L2027X6510	N8370 802.11 a/b/g/n/ac Wireless Print Server	•
1021231	Cable Parallel	<ul> <li>(Local Option)</li> </ul>
1021294	Cable USB	<ul> <li>(Local Option)</li> </ul>
14F0100	Interface Serial	<ul> <li>(Local Option)</li> </ul>
57X9801	256-MB flash memory	<ul> <li>(Local Option)</li> </ul>
57X0204	4-GB memory	<ul> <li>(Local Option)</li> </ul>
40C9200	Forms and barcode	<ul> <li>(Local Option)</li> </ul>
40C9201	IPDS	<ul> <li>(Local Option)</li> </ul>
40C9202	PRESCRIBE	• (Local Option)
L2057X0185	Security Module	•
57X0300	Contact authentication device	• (Local Option)
57X0301	Contactless authentication device	• (Local Option)
14F0000	Parallel 1284-B Interface Card	<ul> <li>(Local Option)</li> </ul>

#### (Except Europe)



\*1: Optional 2,100-sheet Tray MX-CS24 requires Caster Base.

\*2: Must be removed for desktop use.

\*3: Can not be installed for desktop use.

Product Name	Description	MX-B707F/MX-B557F
MX-CS22	550-Sheet Tray	•
MX-CS24	2100-Sheet Tray	•
MX-FN38	Staple Finisher	•
MX-FN39	Staple, Hole Punch Finisher	•
25A0013	Staple Cartridge 3-pack (15K)	<ul> <li>(Local Option)</li> </ul>
MX-MS10	4-Bin Mailbox	•
-	-	-
25B2999	Stacker offset	• (Local Option)
50G0854	Spacer	<ul> <li>(Local Option)</li> </ul>
57X7030	Keyboard kit (English)	<ul> <li>(Local Option)</li> </ul>
57X7040	Keyboard kit (English)	• (Local Option)
27X0142	Print server fiber Ethernet N8230	• (Local Option)
27X6410	Print server 802.11b/g/n/ac N8372 (front)	• (Local Option)
27X6510	N8370 802.11 a/b/g/n/ac Wireless Print Server	• (Local Option)
1021231	Cable Parallel	• (Local Option)
1021294	Cable USB	• (Local Option)
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40C9202	PRESCRIBE	<ul> <li>(Local Option)</li> </ul>
57X0185	Security Module	<ul> <li>(Local Option)</li> </ul>
57X0300	Contact authentication device	<ul> <li>(Local Option)</li> </ul>
57X0301	Contactless authentication device	<ul> <li>(Local Option)</li> </ul>
14F0000	Parallel 1284-B Interface Card	• (Local Option)

# [2] CONSUMABLE PARTS

#### MX-B707F, MX-B557F

#### 1, Consumable system table

North America, Canada, Mexico/Europe/Middle East, India

Machine model	Content	Return/Regular	Model name
MX-B707F	Toner Cartridge (Black)	Return	MX-B70T
MX-B557F		Regular	MX-B70T-S *
	Imaging Unit	Return	MX-B70DU
		Regular	MX-B70DU-S*

\*Not available in Europe.

#### 2, Maintenance parts list

#### North America, Canada, Mexico

Item	Model name	Content	Number	Life
225K maintenance kit (115V)	MX-B70KA1	Fuser	1	225K
		Pick rollers	3	
		Tray separators	3	
		Transfer roller	1	
225K maintenance kit (115V NRP*)	MX-B70KB1	Fuser	1	225K
		Pick rollers	3	
		Tray separators	3	
		Transfer roller	1	
400K maintenance kit (115V)	MX-B70KE1	Fuser	1	400K
		Pick rollers	3	
		Tray separators	3	
		Transfer roller	1	
400K maintenance kit	MX-B70KD	Pick rollers	3	400K
(Printer rollers)		Tray separators	3	
		Transfer roller	1	
300K ADF maintenance kit	MX-B70KC	ADF separator roller	1	300K
		ADF pick roller	1	]
		ADF feed belt	1	

\*NRP: Non Return Program

#### Europe, Middle East, India

Item	Model name	Content	Number	Life
225K maintenance kit (230V)	MX-B70KA	Fuser	1	225K
		Pick rollers	3	
		Tray separators	3	
		Transfer roller	1	

400K maintenance kit (230V)	MX-B70KE	Fuser	1	400K
		Pick rollers	3	
		Tray separators	3	
		Transfer roller	1	
400K maintenance kit	MX-B70KD	Pick rollers	3	400K
(Printer rollers)		Tray separators	3	
		Transfer roller	1	
300K ADF maintenance kit	MX-B70KC	ADF separator roller	1	300K
		ADF pick roller	1	
		ADF feed belt	1	

# [3] Upgrading and migrating

# Hardware

# Available internal options

- Flash memory
- Font cards
- Firmware cards
  - Forms and Bar Code
  - PRESCRIBE
  - IPDS
- Printer hard disk
- Internal solutions port
  - Parallel 1284-B Interface Card
  - RS-232C Serial Interface Card
  - Fiber Interface Card
  - N8370 (802.11a/b/g/n/ac Wireless Print Server)

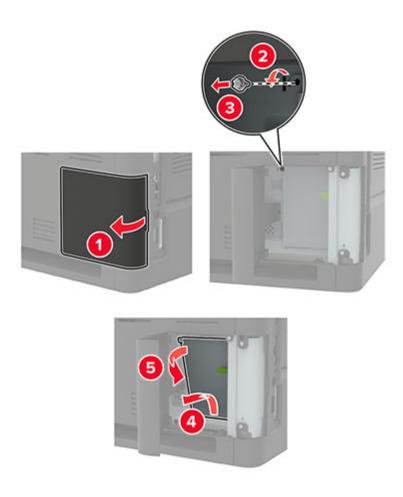
## Accessing the controller board

A CAUTION—SHOCK HAZARD: To avoid the risk of electrical shock, if you are accessing the controller board

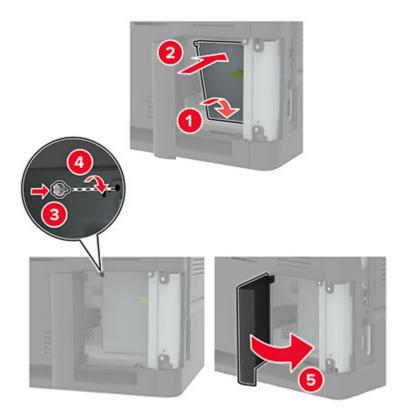
or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Using a flat-head screwdriver, open the controller board access cover.

**Warning—Potential Damage:** Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any controller board components or connectors.



- 4. Install any supported internal options. For more information, see the documentation that came with the option.
- 5. Close the access cover.



6. Connect the power cord to the printer, and then to the electrical outlet.

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

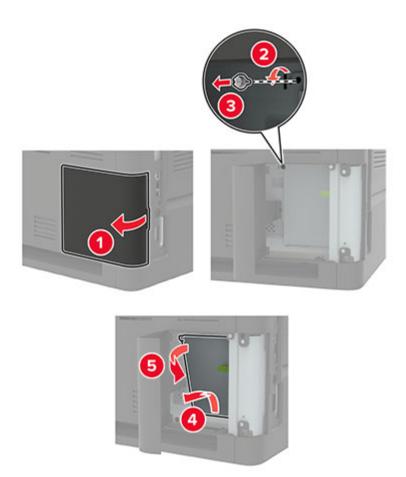
7. Turn on the printer.

#### Installing a memory card

**CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, if you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Using a flat-head screwdriver, open the controller board access cover.

**Warning—Potential Damage:** Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any controller board components or connectors.



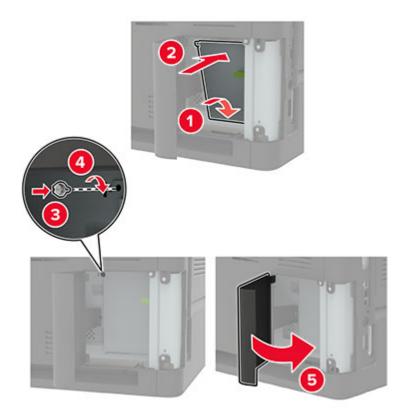
4. Unpack the memory card.

Warning—Potential Damage: Do not touch the connection points along the edge of the card.

5. Insert the memory card until it *clicks* into place.



6. Close the access cover.



7. Connect the power cord to the printer, and then to the electrical outlet.

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

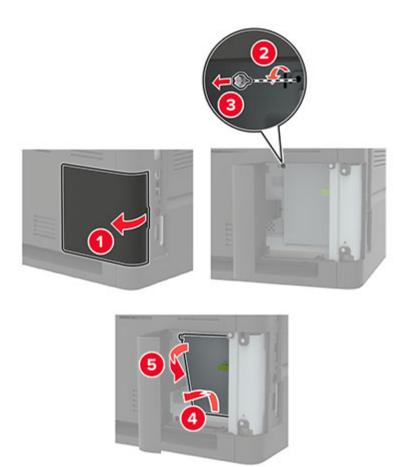
8. Turn on the printer.

## Installing an optional card

**CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, if you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Using a flat-head screwdriver, open the controller board access cover.

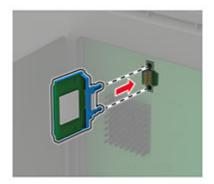
**Warning—Potential Damage:** Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any components or connectors.



4. Unpack the optional card.

Warning—Potential Damage: Do not touch the connection points along the edge of the card.

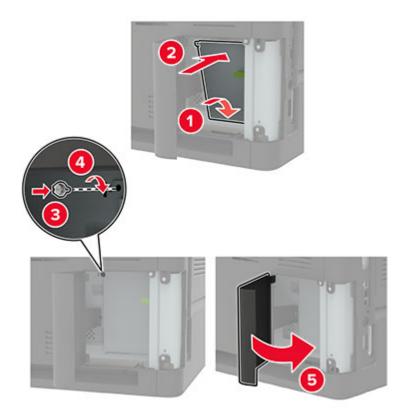
5. Push the card firmly into place.



Note: The entire length of the connector on the card must touch and be flush against the controller board.

**Warning—Potential Damage:** Improper installation of the card may cause damage to the card and the controller board.

6. Close the access cover.



7. Connect the power cord to the printer, and then to the electrical outlet.

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

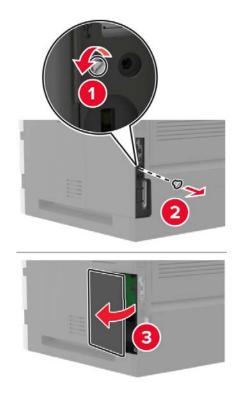
8. Turn on the printer.

## Installing a printer hard disk

**CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, if you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

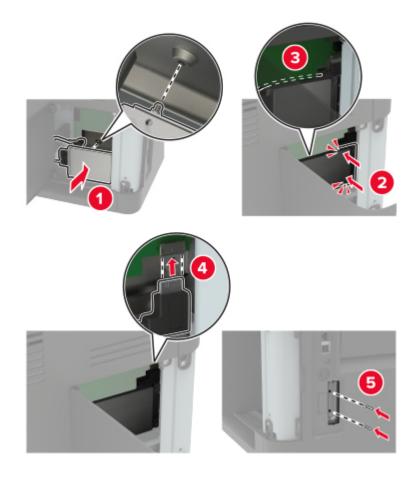
- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Using a flat-head screwdriver, open the controller board access cover.

**Warning—Potential Damage:** Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any controller board components or connectors.



- 4. Unpack the hard disk.
- 5. Attach the hard disk, and then connect the hard disk interface cable to the controller board.

Warning—Potential Damage: Do not touch or press the center of the hard disk.



- 6. Close the access cover.
- 7. Connect the power cord to the printer, and then to the electrical outlet.

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

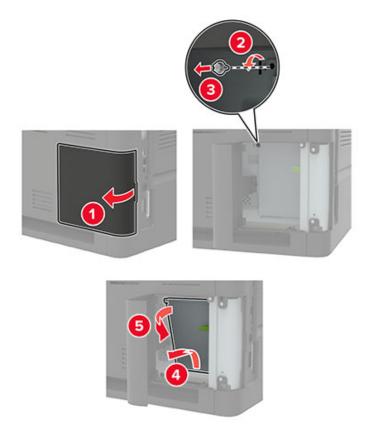
8. Turn on the printer.

#### Installing an internal solutions port

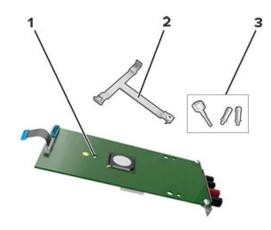
**CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, if you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

- 1. Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2. Using a flat-head screwdriver, open the controller board access cover.

**Warning—Potential Damage:** Controller board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any controller board components or connectors.

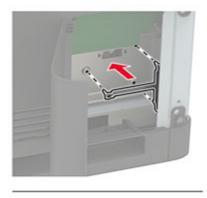


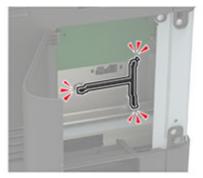
3. Unpack the internal solutions port (ISP) kit.



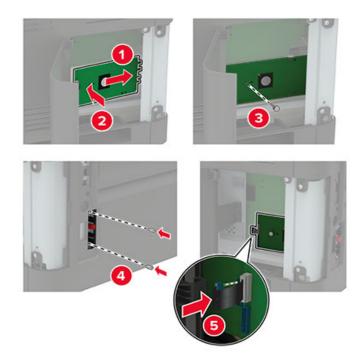
1	ISP
2	Mounting bracket
3	Thumbscrews

- 4. If necessary, remove the printer hard disk.
- 5. Insert the bracket into the board until it *clicks* into place.

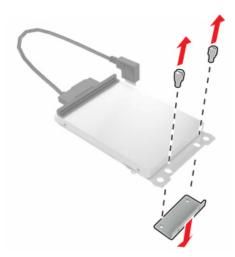




6. Attach the ISP to the bracket.

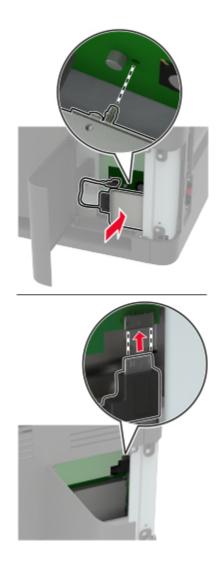


- 7. If necessary, attach the hard disk to the ISP.
  - a. Remove the hard disk bracket.

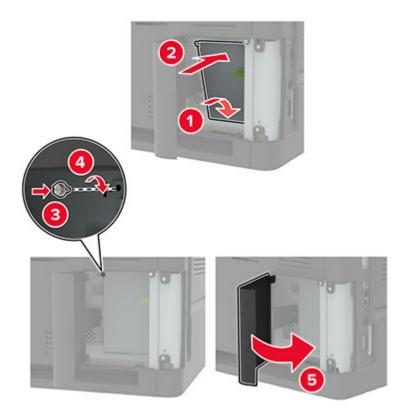


b. Connect the hard disk to the ISP.

Warning—Potential Damage: Do not touch or press the center of the hard disk.



8. Close the access cover.



9. Connect the power cord to the electrical outlet, and then turn on the printer.

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

## Installing the 550-sheet tray

**CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, if you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

**CAUTION—TIPPING HAZARD:** Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury.

- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Unpack the optional tray, and then remove all packing material.

**Note:** If optional trays are already installed, then unlock them from the printer before lifting the printer. Do not try to lift the printer and trays at the same time.

MX-B557F/B707F [3] UPGRADING AND MIGRATING 3-13

4. Align the printer with the optional tray, and then lower the printer until it *clicks* into place.

CAUTION—POTENTIAL INJURY: If the printer weight is greater than 18 kg (40 lb), then it requires two

or more trained personnel to lift it safely.



5. Connect the power cord to the printer, and then to the electrical outlet.

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

6. Turn on the printer.

Add the tray in the print driver to make it available for print jobs. For more information, see <u>Adding available</u> options in the print driver.

#### Installing the 2100-sheet tray

**CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, if you are accessing the controller board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the electrical outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

**CAUTION—TIPPING HAZARD:** Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury.

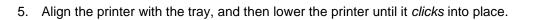
- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Unpack the tray, and then remove all packing material.

**Note:** If optional trays are already installed, then unlock them from the printer before lifting the printer. Do not try to lift the printer and trays at the same time.

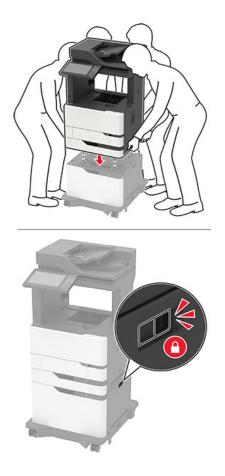
4. Install the tray on the caster base.

Note: Make sure that the caster base wheels are locked.

**CAUTION**—**POTENTIAL INJURY:** If the tray weight is greater than 18 kg (40 lb), then it requires two or more trained personnel to lift it safely.



**CAUTION**—**POTENTIAL INJURY:** If the printer weight is greater than 18 kg (40 lb), then it requires two or more trained personnel to lift it safely.



6. Connect the power cord to the printer, and then to the electrical outlet.

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

7. Turn on the printer.

Add the tray in the print driver to make it available for print jobs. For more information, see <u>Adding available</u> options in the print driver.

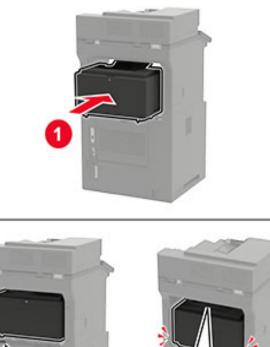
#### Installing the 4-bin mailbox

**CAUTION—TIPPING HAZARD:** Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury.

- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Unpack the mailbox.
- 4. Remove the printer top cover.



5. Install the mailbox.





6. Connect the power cord to the printer, and then to the electrical outlet.

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

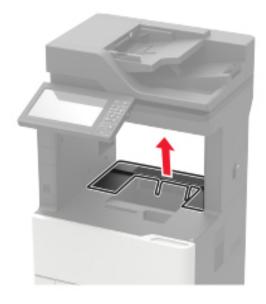
7. Turn on the printer.

Add the mailbox in the print driver to make it available for print jobs. For more information, see <u>Adding</u> available options in the print driver.

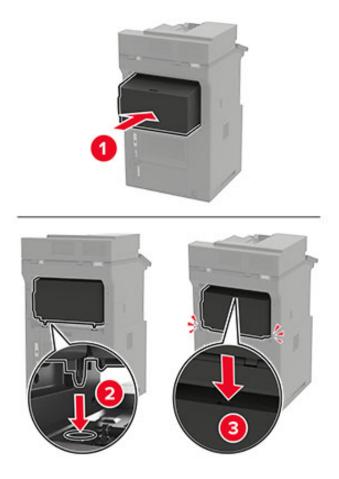
## Installing the offset stacker

**CAUTION**—**TIPPING HAZARD:** Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury.

- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Unpack the offset stacker.
- 4. Remove the printer top cover.



5. Install the offset stacker.



6. Connect the power cord to the printer, and then to the electrical outlet.

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

7. Turn on the printer.

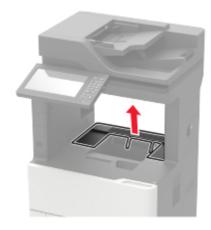
Add the offset stacker in the print driver to make it available for print jobs. For more information, see <u>Adding</u> available options in the print driver.

#### Installing the staple finisher

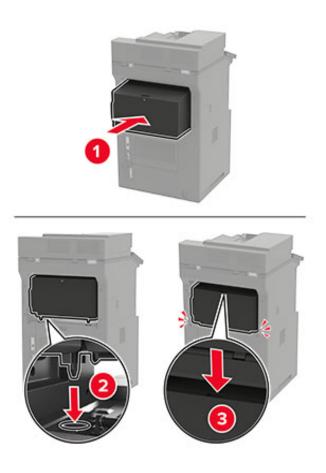
**CAUTION—TIPPING HAZARD:** Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury.

- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Unpack the staple finisher.

4. Remove the printer top cover.



5. Install the staple finisher.



6. Connect the power cord to the printer, and then to the electrical outlet.

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

7. Turn on the printer.

Add the staple finisher in the print driver to make it available for print jobs. For more information, see <u>Adding</u> available options in the print driver.

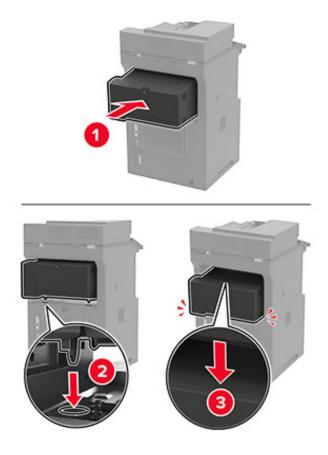
## Installing the staple, hole punch finisher

**CAUTION—TIPPING HAZARD:** Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury.

- 1. Turn off the printer.
- 2. Unplug the power cord from the electrical outlet, and then from the printer.
- 3. Unpack the staple, hole punch finisher.
- 4. Remove the printer top cover.



5. Install the finisher.



6. Connect the power cord to the printer, and then to the electrical outlet.

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

7. Turn on the printer.

Add the finisher in the print driver to make it available for print jobs. For more information, see <u>Adding available</u> <u>options in the print driver</u>.

# Firmware

# Exporting or importing a configuration file

You can export the configuration settings of your printer into a text file, and then import the file to apply the settings to other printers.

1. Open a web browser, and then type the printer IP address in the address field.

#### Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

- If you are using a proxy server, then temporarily disable it to load the web page correctly.
- 2. Export or import a configuration file for one or multiple applications.

#### For one application

- a. From the Embedded Web Server, click **Apps** > the application that you want >**Configure**.
- b. Click **Export** or **Import**.

#### For multiple applications

- a. From the Embedded Web Server, click Export Configuration or Import Configuration.
- b. Follow the instructions on the screen.

# **Updating firmware**

Some applications require a minimum device firmware level to operate correctly.

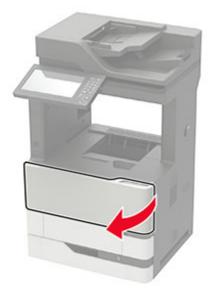
- 1. From the Embedded Web Server, click **Settings** >**Device** >**Update Firmware**.
- 2. Browse to locate the required flash file.
- 3. Apply the changes.

# [4] Replacing parts and supplies

# **Replacing the imaging unit**

1. Open door A.

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.



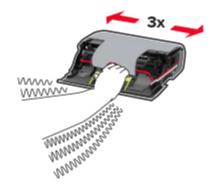
2. Remove the toner cartridge.



3. Remove the used imaging unit.



4. Unpack the new imaging unit, and then shake it to redistribute the toner.



**Warning—Potential Damage:** Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.

**Warning—Potential Damage:** Do not touch the photoconductor drum. Doing so may affect the quality of future print jobs.



- 5. Remove the packing material.
- 6. Insert the new imaging unit.



7. Insert the toner cartridge.



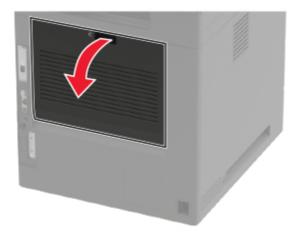
8. Close the door.

## **Replacing the fuser**

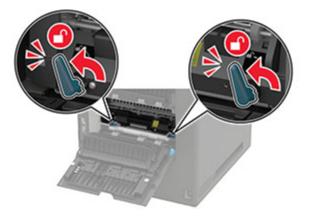
1. Open door C.

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

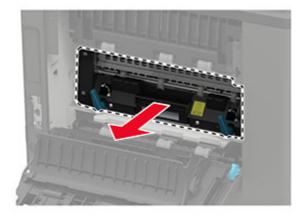
**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.



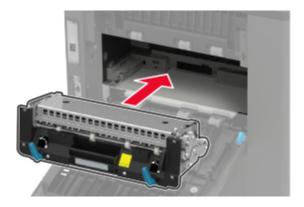
2. Unlock the fuser.



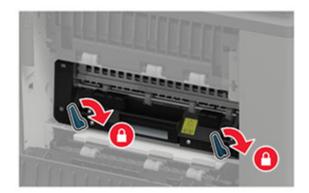
3. Remove the used fuser.



- 4. Unpack the new fuser.
- 5. Insert the new fuser until it *clicks* into place.



6. Lock the fuser.

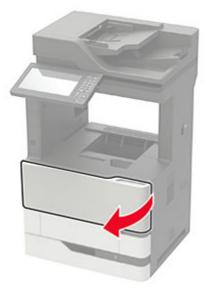


7. Close the door.

# **Replacing the transfer roller**

1. Open door A.

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.



2. Remove the toner cartridge.

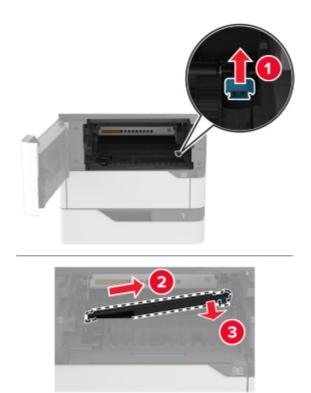


3. Remove the imaging unit.



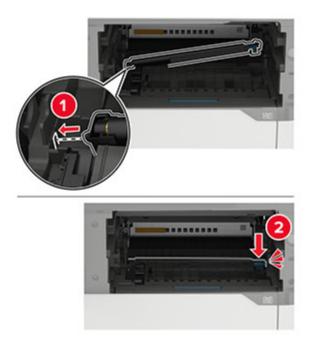
4. Remove the used transfer roller.

**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.



5. Unpack the new transfer roller.

6. Insert the new transfer roller until it *clicks* into place.



7. Insert the imaging unit.



8. Insert the toner cartridge.



9. Close the door.

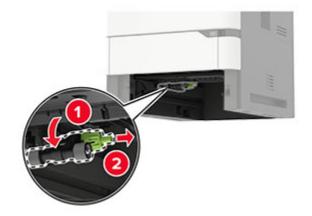
## Replacing the pick roller

1. Remove the tray.

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.

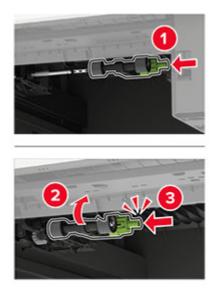


2. Remove the used pick roller.



3. Unpack the new pick roller.

4. Install the new pick roller.



5. Insert the tray.

## Replacing the pick roller in the multipurpose feeder

1. Open the multipurpose feeder.

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.

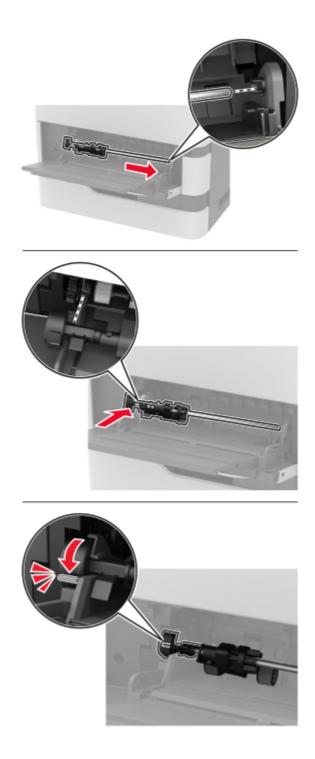


2. Remove the used pick roller.





- 3. Unpack the new pick roller.
- 4. Install the new pick roller.

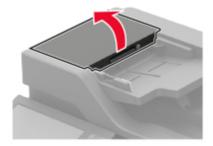


5. Close the multipurpose feeder.

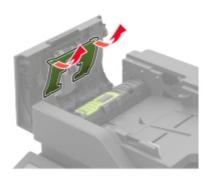
## **Replacing the ADF pick roller**

- 1. Turn off the printer.
- 2. Open door D.

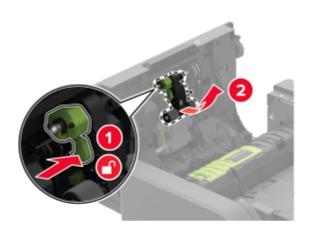
**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.

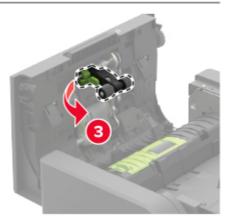


3. Remove the ADF pick roller cover.



4. Remove the used ADF pick roller.

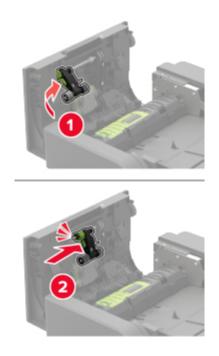




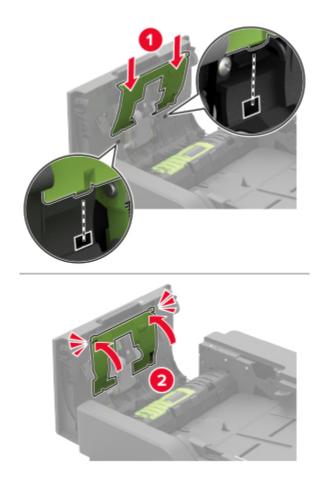
5. Unpack the new ADF pick roller.

**Warning—Potential Damage:** To avoid damage and poor printer performance, handle this part with clean hands.

6. Insert the new ADF pick roller until it *clicks* into place.



7. Insert the ADF pick roller cover until it *clicks* into place.

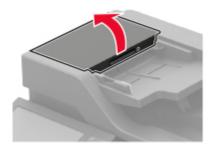


- 8. Close the door.
- 9. Turn on the printer.

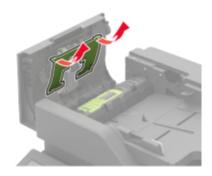
## **Replacing the ADF feed roller**

- 1. Turn off the printer.
- 2. Open door D.

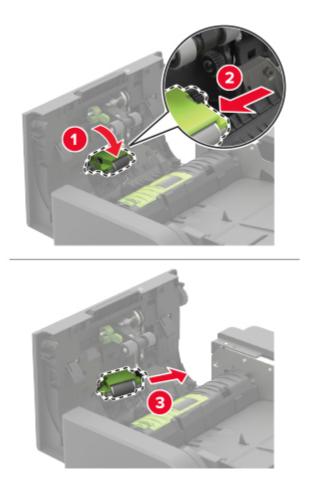
**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.



3. Remove the ADF pick roller cover.



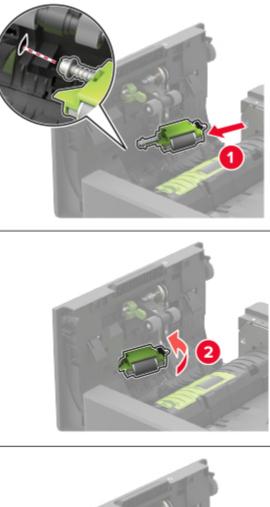
4. Remove the used ADF feed roller.



5. Unpack the new ADF feed roller.

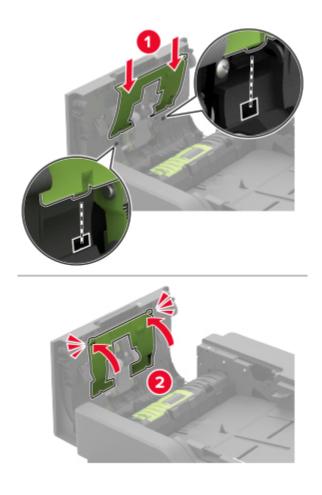
**Warning—Potential Damage:** To avoid damage and poor printer performance, handle this part with clean hands.

6. Insert the new ADF feed roller until it *clicks* into place.





7. Insert the ADF pick roller cover until it *clicks* into place.

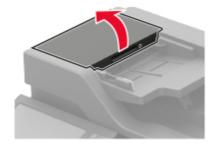


- 8. Close the door.
- 9. Turn on the printer.

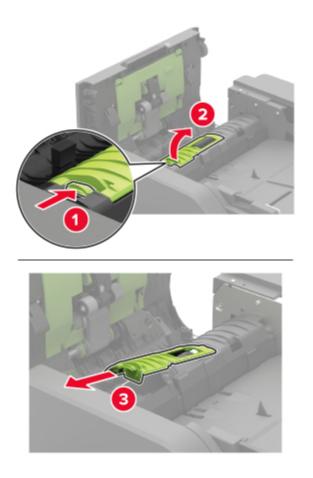
## **Replacing the ADF separator roller**

- 1. Turn off the printer.
- 2. Open door D.

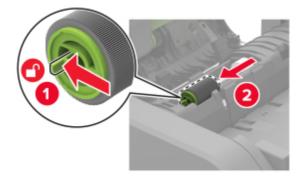
**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.



3. Remove the ADF separator roller cover.



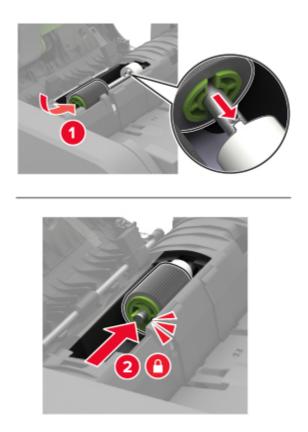
4. Remove the used ADF separator roller.



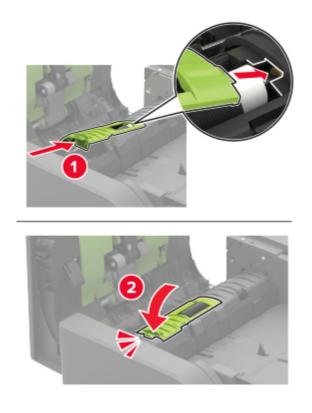
5. Unpack the new ADF separator roller.

**Warning—Potential Damage:** To avoid damage and poor printer performance, handle this part with clean hands.

6. Insert the new ADF separator roller until it *clicks* into place.



7. Insert the ADF separator roller cover until it *clicks* into place.



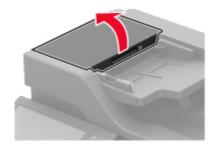
8. Close the door.

9. Turn on the printer.

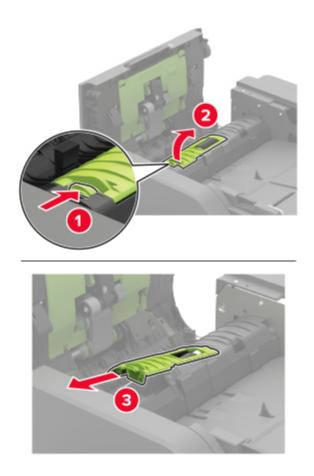
### **Replacing the ADF torque limiter**

- 1. Turn off the printer.
- 2. Open door D.

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.

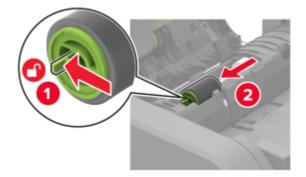


3. Remove the ADF separator roller cover.

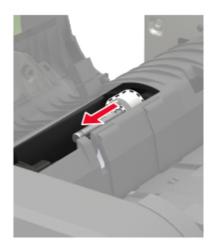


4. Remove the ADF separator roller.

**Warning—Potential Damage:** To avoid damage and poor printer performance, handle this part with clean hands.



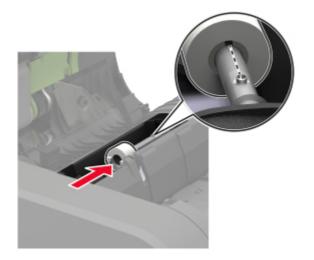
5. Remove the used ADF torque limiter.



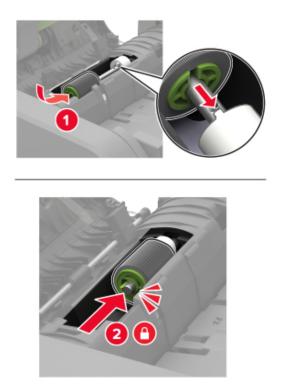
6. Unpack the new ADF torque limiter.

**Warning—Potential Damage:** To avoid damage and poor printer performance, handle this part with clean hands.

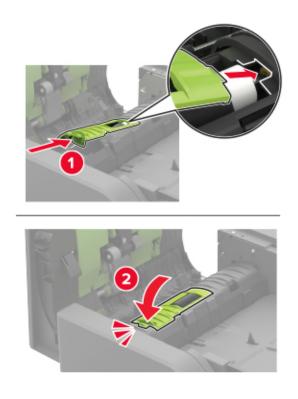
7. Insert the new ADF torque limiter.



8. Insert the ADF separator roller until it *clicks* into place.



9. Insert the ADF separator roller cover until it *clicks* into place.



- 10. Close the door.
- 11. Turn on the printer.

				Sharp parts	Manufacture parts							
No.	Section	Section name	Asm-index	number	number	Description	Note					
2	Assembly 1 Assembly 1	-										
3	Assembly 1	-										
4	Assembly 1											
5	Assembly 1			Ν	Not applicabl	e for MX-B557F/B707F						
6												
7	Assembly 1	-										
8		-										
9 10	,	Covers 1	1	_								
11	Assembly 2 Assembly 2	Covers 1	1	0SP41X1130///	41X1130	Printhead access cover						
12		Covers 1	2	0SP41X1259///	41X1259	Rear cover						
13	Assembly 2	Covers 1	3	0SP41X1270///	41X1270	Right cover						
14	Assembly 2	Covers 1	4	0SP41X1728///	41X1728	Inner right cover						
15	Assembly 2	Covers 1	5	0SP41X1729///	41X1729	Front right snap cover						
16 17	Assembly 2 Assembly 2	Covers 1 Covers 1	6	0SP50X0597/// 0SP50X0589///	50X0597 50X0589	MX-B557F Front MX-B707F Front						
18	Assembly 2	Covers 1	7	0SP41X1266///	41X1266	Left inner lower cover						
19	Assembly 2	Covers 1	8	0SP41X1265///	41X1265	Left inner upper cover						
20	Assembly 2	Covers 1	9	0SP41X1642///	41X1642	Front door bracket						
21	Assembly 2	Covers 1	10	0SP41X1643///	41X1643	Front door pivot						
22	Assembly 2	Covers 1	11	0SP41X1154///	41X1154	Front door pins						
23 24	Assembly 2 Assembly 3	Covers 1 Covers 2	12	0SP41X1268/// 0SP41X1260///	41X1268 41X1260	Left cover Scanner rear cover	+					
24	Assembly 3 Assembly 3	Covers 2 Covers 2	2	0SP41X1260/// 0SP41X1272///	41X1260 41X1272	Scanner rear cover Scanner front upper cover	1					
26	Assembly 3	Covers 2	3	0SP41X1255///	41X1255	Scanner lower cover						
27	Assembly 3	Covers 2	4	0SP41X0234///	41X0234	Scanner right upper cover						
28	Assembly 3	Covers 2	5	0SP41X1263///	41X1263	Right outer column cover						
29		Covers 2	6	0SP41X1258///	41X1258	Right inner column cover						
30 31	Assembly 3 Assembly 3	Covers 2 Covers 2	7	0SP41X2314/// 0SP41X1254///	41X2314 41X1254	Bin extender Bin cover	+					
31	Assembly 3 Assembly 3	Covers 2	9	0SP41X1257///	41X1254 41X1257	Left inner column cover	1					
33		Covers 2	10	0SP41X1262///	41X1262	Keyboard option cover						
34	Assembly 3	Covers 2	11	0SP41X1274///	41X1274	USB socket cover						
35	Assembly 3	Covers 2	12	0SP41X1261///	41X1261	Left outer column cover						
36	Assembly 3	Covers 2	13	0SP41X0233///	41X0233	Scanner left upper cover						
37	Assembly 4 Assembly 4	-										
39	Assembly 4	-										
40	Assembly 4	-										
41	Assembly 4											
42	Assembly 4	-										
43	Assembly 4	-										
44	Assembly 4 Assembly 4	-				6						
46	-			ſ	Not applicabl	e for MX-B557F/B707F						
47	Assembly 5											
48	-	-										
49 50	Assembly 5 Assembly 5											
50	Assembly 5 Assembly 5											
52												
53	Assembly 5											
54	Assembly 5											
55	Assembly 6	Fuser	1	-								
56	Assembly 6	Fuser	1	-								
57	Assembly 6	Fuser	1	-								
		_					1					
58	Assembly 6	Fuser	1	-								
59	Assembly 6	Fuser	2	0SP41X1115///	41X1115	*Factory default unit	SY fuser : For Standard yield					
	, assumpty 0			55. HATT5///		Belt SY fuser, 115V LTR LRP TYPE 00 / Maintenance interval:225K	LRP: For return program					
60	Assembly 6	Fuser	2	0SP41X1116///	41X1116	*Factory default unit Belt SY fuser, 230V A4 LRP TYPE 01 / Maintenance interval:225K	SY fuser: For Standard yield LRP: For return program					
61	Assombly 6	Fusor										
61	Assembly 6	Fuser	2	-			-					
62	Assembly 6	Fuser	2	-								
63	Assembly 6	Fuser	2	-								
64	Assembly 6	Fuser	2	0SP41X2143///	41X2143	Belt SY fuser, 115V LTR NLRP TYPE 05 / Maintenance interval:225K	SY fuser : For Standard yield					
	.,.		<u> </u>				LRP: For no return program					
65	Assembly 6	Fuser	2	-								
66	Assembly 6	Fuser	2	-								
	-						+					
67	Assembly 6	Fuser	2	-								
68	Assembly 6	Fuser	2	0SP41X2155///	41X2155	Belt HY fuser, 115V LTR LRP TYPE 32 / Maintenance interval:400K	HY fuser: For High yield					
00	, assumpty 0			001 +172100///	-172100		LRP: For return program					
69	Assembly 6	Fuser	2	0SP41X2156///	41X2156	Belt HY fuser, 230V A4 LRP TYPE 33 / Maintenance interval:400K	HY fuser: For High yield LRP: For return program					
	A	5										
70	Assembly 6	Fuser	2	-								
						1						
71	Assembly 6	Fuser	2	-								
71					41¥1075	Fuser attach bracket						
	Assembly 6 Assembly 6 Assembly 6	Fuser Fuser Fuser	2 3 4	- 0SP41X1075///	41X1075	Fuser attach bracket						

	0.1	<b>0</b>		Sharp parts	Manufacture parts		
No.	Section	Section name	Asm-index	number	number	Description	Note
74	Assembly 6	Fuser	4	-			
75	Assembly 7	Electronics 1	1	0SP41X1106///	41X1106	Printhead	
76	Assembly 7	Electronics 1	2	0SP41X1111///	41X1111	Printhead video cable	
77	Assembly 7	Electronics 1	3	0SP40X9079///	40X9079	Speaker	
78 79	Assembly 7	Electronics 1	4	0SP41X1269///	41X1269	Cable holder	
-	Assembly 7 Assembly 7	Electronics 1	-	0SP41X1147///	41X1147	Controller board	
80 81	,	Electronics 1	6	0SP41X1052///	41X1052	Controller board housing	
	Assembly 7	Electronics 1	-	0SP41X1053///	41X1053	Controller board shield	
82 83	Assembly 7	Electronics 1 Electronics 1	8	0SP41X1622/// 0SP41X2320///	41X1622 41X2320	HVPS shield LVPS cable	
83	Assembly 7 Assembly 7		9		41X2320 41X1099	HVPS	
	,	Electronics 1		0SP41X1099/// 0SP41X1087///	41X1099 41X1087		
85 86	Assembly 7 Assembly 7	Electronics 1	11			High voltage contacts guide	
87	Assembly 7 Assembly 7	Electronics 1 Electronics 1	12	0SP41X1088/// 0SP41X2610///	41X1088 41X2610	Toner cartridge bias roller Guide roller	
88	Assembly 7 Assembly 8	Electronics 2	13	0SP41X2010///	41X1076	Transfer roller	
89	Assembly 8	Electronics 2	2		41X1070 41X1077	Sensor (toner density)	
90	Assembly 8	Electronics 2	3	0SP41X1095///	41X1077 41X1095	Sensor (input)	
91	Assembly 8	Electronics 2	4	0SP41X1093///	41X1093	Sensor (tray 1 pick)	
92	Assembly 8	Electronics 2	5	0SP41X1094///	41X1094	Sensor (pass-through)	
93	Assembly 8	Electronics 2	6		41X1086	Optional tray interface cable	
94	Assembly 8	Electronics 2	7	0SP41X1097///	41X1097	AC power socket	
95	Assembly 8	Electronics 2	, 8	0SP41X1177///	41X1037	Fan, 80 mm	
95	Assembly 8 Assembly 8	Electronics 2	9	0SP41X1112///	41X1117 41X1112	LVPS	
97	Assembly 8	Electronics 2	10		41X112 41X2356	USB host cable	
97	Assembly 8 Assembly 8	Electronics 2	10	0SP41X2673///	41X2673	Transfer roller contact	
98	Assembly 8 Assembly 9	Electronics 2 Motors	1	0SP41X2673/// 0SP41X1079///	41X2673 41X1079	Aligner	
100	Assembly 9 Assembly 9	Motors	2	0SP41X1079/// 0SP41X2135///	41X1079 41X2135	Aligner spring	
100	Assembly 9 Assembly 9	Motors	3	0SP41X2135/// 0SP41X1081///	41X2135 41X1081	Aligner spring Aligner screw	
101	Assembly 9 Assembly 9	Motors	4	0SP41X1081///	41X1081 41X2123	Gear cover	
102	Assembly 9	Motors	5	0SP41X1615///	41X1615	Optional tray drive gear	
103	Assembly 9	Motors	6	0SP41X1015///	41X1015 41X1105	Motor (MPF)	
104	Assembly 9 Assembly 9	Motors	7	0SP41X1102///	41X1103 41X1102	Main motor drive	
105	Assembly 9 Assembly 9	Motors	8		41X1102 41X1104	Fuser drive gears	
100	Assembly 9	Motors	9	0SP41X1103///	41X1103	Toner cartridge drive	
108	Assembly 9	Motors	10	0SP41X2610///	41X2610	Guide roller	
109	Assembly 9	Motors	11	0SP41X2355///	41X2355	Toner cartridge motor cable	
110	Assembly 9	Motors	12		41X1096	Motor (redrive)	
111	Assembly 9	Motors	13		41X1109	Upper redrive	
112	Assembly 10	Sensors 1	1	0SP41X1083///	41X1083	Sensor (front door interlock)	
113	Assembly 10	Sensors 1	2	0SP41X1083///	41X1083	Sensor (toner cartridge shutter)	
114	Assembly 10	Sensors 1	3	0SP41X1089///	41X1089	Toner cartridge shutter actuator	
115	Assembly 10	Sensors 1	4	0SP41X1083///	41X1083	Sensor (duplex interlock)	
116	Assembly 10	Sensors 1	5	0SP41X1083///	41X1083	Sensor (MPF paper present)	
117	Assembly 10	Sensors 1	6	0SP41X1084///	41X1084	Sensor (toner smart chip)	
118	Assembly 10	Sensors 1	7	0SP41X2124///	41X2124	Toner smart chip spring	
119	,	Sensors 1	8	0SP41X1072///	41X1072	Sensor (toner low)	
120		Sensors 1	9	0SP41X2353///	41X2353	Toner low sensor cable	
121	Assembly 11	Sensor2 1	1	0SP41X1056///	41X1056	Bin full sensor cover	
122	Assembly 11	Sensor2 1	2	0SP41X1110///	41X1110	Sensor (standard bin full) with actuator	
123	Assembly 11	Sensor2 1	3	0SP41X1083///	41X1083	Sensor (standard bin full)	
124	Assembly 11	Sensor2 1	4	0SP41X1083///	41X1083	Sensor (rear door interlock)	
125		Sensor2 1	5		41X2354	Paper size sensor cable	
126		Sensor2 1	6	0SP40X7911///	40X7911	Sensor (paper size)	
127	Assembly 11	Sensor2 1	7	0SP41X1085///	41X1085	Paper size sensor cover	
128	Assembly 12	Duplex	1	0SP41X1122///	41X1122	Duplex/MPF tray	
129	Assembly 12	Duplex	2	0SP41X1123///	41X1123	MPF pick roller	
130	Assembly 12	Duplex	3	0SP41X1638///	41X1638	MPF tray separator pad	
131	Assembly 12	Duplex	4	0SP41X1635///	41X1635	MPF tray drive/support	
132	Assembly 12	Duplex	5		41X1636	MPF front door	
133	Assembly 12	Duplex	6	0SP41X1124///	41X1124	MPF tray extension	
134	Assembly 12	Duplex	7	0SP41X1631///	41X1631	Duplex pinch roller	
135	Assembly 12	Duplex	8		41X1078	Sensor (duplex path) with cover	
136	Assembly 12	Duplex	9	0SP41X1083///	41X1083	Sensor (duplex path)	
137	Assembly 12	Duplex	10	0SP41X1050///	41X1050	Motor (duplex)	
138		Duplex	11	0SP41X2318///	41X2318	Sensor/redrive motor cable	
139	-	Frames	1	0SP41X1073///	41X1073	Imaging unit clamp	
140		Frames	2	0SP41X1092///	41X1092	Rear door right pivot	
141	Assembly 13	Frames	3	0SP41X1080///	41X1080	Inner guide deflector	├
142		Frames	- 4	0SP41X1618///	41X1618	Imaging unit side bias roller	
143	Assembly 13	Frames	5	0SP41X1091///	41X1091	Tray bias roller, front	
144		Frames	5		41X1091	Tray bias roller, top	
145		Frames	5	0SP41X1091///	41X1091	Tray bias roller, rear	l
146	Assembly 14						
147 148	Assembly 14 Assembly 14	<u> </u>					
148	Assembly 14 Assembly 14						
	-	<b>—</b>					
150		<u>                                      </u>					
151 152	Assembly 14 Assembly 14	<u>                                      </u>					
152	Assembly 14 Assembly 14				Not applicat	le for MX-B557F/B707F	
153	Assembly 14 Assembly 14					· -	
154	Assembly 14 Assembly 14						
155	Assembly 14 Assembly 14						
150	Assembly 14 Assembly 14						
	-						
	Assembly 14						
158 159	Assembly 14 Assembly 14						
159	Assembly 14	Control papel	1				
159 160	Assembly 14 Assembly 15	Control panel	1				
159 160 161	Assembly 14 Assembly 15 Assembly 15	Control panel	1	-			
159 160 161 162	Assembly 14 Assembly 15 Assembly 15 Assembly 15	Control panel Control panel	1 1 1	-	41X2387	Bezel, control panel (MX-8557F/707E)	
159 160 161 162 163	Assembly 14 Assembly 15 Assembly 15 Assembly 15 Assembly 15	Control panel Control panel Control panel	1 1 1 1 1		41X2387	Bezel, control panel (MX-B557F/707F)	
159 160 161 162	Assembly 14 Assembly 15 Assembly 15 Assembly 15 Assembly 15 Assembly 15	Control panel Control panel	1 1 1 1 1 2	-	41X2387 41X0544	Bezel, control panel (MX-B557F/707F) Cover, control panel (10.1- inch)	

No.	Conting	Contine and a	Asm-index	Sharp parts	Manufacture parts	Description	Ninte
	Section	Section name	ASITI-INDEX	number	number	Description	Note
166	Assembly 15	Control panel	3	0SP41X1149///	41X1149	Control panel (10.1-inch) board	
167	Assembly 15	Control panel	4	0SP41X0224///	41X0224	Button kit, Control panel (10.1-inch)	
168	1	Control panel	5	0SP41X1151///	41X1151	Control panel housing (large)	
169		Control panel	6	0SP41X2309///	41X2309		
			0			Control panel cable	
170	,	Control panel	7	0SP41X1256///	41X1256	Control panel hinge	
171	Assembly 15	Control panel	8	0SP41X2325///	41X2325	Control panel bracket	
172	Assembly 16	Tray/feed	1	0SP41X1119///	41X1119	Separator pad	
173	Assembly 16	Tray/feed	2	-			
				0004474646///	44.74.040	Torreitana	
174	-		2	0SP41X1646///	41X1646	Tray insert	
175	Assembly 16	Tray/feed	3	0SP41X1120///	41X1120	Paper size sensor actuator	
176	Assembly 16	Tray/feed	4	0SP41X2317///	41X2317	Feeder/paper path cable	
177	Assembly 16	Trav/feed	5	0SP41X1108///	41X1108	Tray 1 pick roller	
178			6	0SP41X1107///	41X1107	Paper feeder	
179	Assembly 16		7	0SP41X2319///	41X2319	Feeder/paper path cable	
180	Assembly 17	ADF 1	1				
181	Assembly 17	ADF 1	1	0SP41X1895///	41X1895	ADF	
182	Assembly 18	ADF 2	1	0SP41X1886///	41X1886	ADF rear cover	
183	Assembly 18		2	0SP41X1884///	41X1884	ADF tray	
			2				
184	Assembly 18	ADF 2	3	0SP41X0295///	41X0295	Paper bail	
185	Assembly 18	ADF 2	4	0SP41X0304///	41X0304	ADF bin extender	
186	Assembly 18	ADF 2	5	0SP41X1891///	41X1891	Scanner glass pad	
187	Assembly 18	ADF 2	6	0SP41X1905///	41X1905	ADF bottom door	
188	Assembly 18	ADF 2	7	0SP41X0297///	41X0297	ADF front cover	
	,		,				
189	Assembly 18	ADF 2	8	0SP41X0277///	41X0277	ADF left lower cover	
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190	Assembly 19	ADF 3	1	- 1	l		
1	, -			1			
40.	Approximited and		_	0004414007///	4474007	Torque limiter	
191		ADF 3	2	0SP41X1897///	41X1897	Torque limiter	
192	-	ADF 3	3	0SP41X0306///	41X0306	ADF input guide	
193	Assembly 19	ADF 3	4	0SP41X1032///	41X1032	ADF lift plate shim	
194	Assembly 19	ADF 3	5	0SP41X2217///	41X2217	ADF right hinge	
195	Assembly 19		6	0SP41X2216///	41X2216	ADF left hinge	
			-			-	
196		ADF 3	7	0SP41X0305///	41X0305	Float plate guide	
197	Assembly 19		8	0SP41X0319///	41X0319	Float plate	
198	Assembly 19	ADF 3	9	0SP41X0317///	41X0317	ADF front drive train	
199		ADF 3	10	0SP41X2697///	41X2697	Separator roller cover	
200	Assembly 20	ADF 4	1	0SP41X0296///	41X0296	ADF CCD FFC	
			1				
201	-	ADF 4	2	0SP41X1901///	41X1901	CCDM hold down screw	
202	Assembly 20	ADF 4	3	0SP41X1900///	41X1900	ADF scanner CCD	
203	Assembly 20	ADF 4	4	0SP41X0322///	41X0322	Sensor (ADF multifeed receiver)	
204	Assembly 20	ADF 4	5	0SP41X0316///	41X0316	ADF rear drive gears	
204	-	ADF 4	6	0SP41X1888///	41X1888	Motor (ADF)	
	-						<u> </u>
206	-		7	0SP41X0313///	41X0313	Motor (ADF calibration roller)	
207	Assembly 20	ADF 4	8	0SP41X1896///	41X1896	ADF controller board	
208	Assembly 20	ADF 4	9	-	T		
209		ADF 4	9	0SP41X2676///	41X2676	HDMI cable pack	
210			-		41X1902		
		ADF 5	1	0SP41X1902///		ADF top door	
211	Assembly 21	ADF 5	2	0SP41X1898///	41X1898	Sensor (ADF gap detect)	
212	Assembly 21	ADF 5	3	0SP41X1883///	41X1883	ADF pick roller cover	
213	Assembly 21	ADF 5	4	0SP40X7779///	40X7779	Sensor (ADF deskew)	
214	Assembly 21	ADF 5	5	0SP41X0574///	41X0574	Sensor (ADF multifeed transmitter)	
	-						
215			6	0SP41X0579///	41X0579	ADF top door cover	
216	Assembly 21	ADF 5	7	0SP41X0310///	41X0310	ADF top door hinge bushing	
217	Assembly 22	ADF 6	1	0SP41X1882///	41X1882	Sensor (ADF top door interlock)	
218	Assembly 22	ADF 6	2	0SP40X7592///	40X7592	Sensor (ADF bottom door interlock)	
219	-		3	0SP41X0294///	41X0294	ADF bottom interlock actuator	
			0				
220	-	ADF 6	4	0SP41X0576///	41X0576	Sensor (ADF 1st scan)	
221	Assembly 22	ADF 6	5	0SP41X1885///	41X1885	Sensor (ADF pick)	
222	Assembly 22	ADF 6	6	0SP41X1889///	41X1889	ADF paper exit actuator	
223	Assembly 22	ADF 6	7	0SP40X7592///	40X7592	Sensor (ADF paper exit)	
224		ADF 6	. 8	0SP41X1881///	41X1881	Sensor (ADF closed) with actuator	
	-		-				
225	-	ADF 6	10	0SP41X2791///	41X2791	Exit bail retainer	
227	-	Flatbed scanner 1	1		L		
228	Assembly 23	Flatbed scanner 1	1	0SP41X1893///	41X1893	Flatbed scanner	
229	Assembly 24	Flatbed scanner 2	1	0SP41X0275///	41X0275	Flatbed scanner top cover	
230	Assembly 24	Flatbed scanner 2	2	0SP41X1882///	41X1882	Sensor (FB CCDM)	
231		Flatbed scanner 2	3	0SP41X0286///	41X1082 41X0286		
231			3			Hinge roller Meter (flathed scapper)	
		Flatbed scanner 3	1	0SP41X2136///	41X2136	Motor (flatbed scanner)	
233		Flatbed scanner 3	2	0SP41X0279///	41X0279	Flatbed scanner gear	
234	Assembly 25	Flatbed scanner 3	3	0SP41X0273///	41X0273	Flatbed scanner belt	
235	Assembly 25	Flatbed scanner 3	4	0SP41X0284///	41X0284	Flatbed scanner tensioner pulley	
236		Flatbed scanner 3	5	0SP41X1899///	41X1899	Flatbed scanner CCDM	
237	Assembly 25	Flatbed scanner 3	6	-			
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238		Flatbed scanner 3	6	0SP41X2362///	41X2362	Flatbed CCDM FFC	
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303	Section	Section name	Asm-index	Sharp parts number	Manufacture parts number	Description	Note
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304	Assembly 28	-		I	Not applicab	le for MX-B557F/B707F	
305	-	550-sheet tray option 1	1	-			
306		550-sheet tray option 1	2	0SP41X1646///	41X1646	550-sheet tray insert	
307		550-sheet tray option 1	3	0SP41X1119///	41X1119	Separator pad	
308	Assembly 29	550-sheet tray option 1	NS	0SP41X2208///	41X2208	Tray level indicator	
309	Assembly 30	_					
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328	Assembly 30						
329		550-sheet tray option 2	1	0SP41X1655///	41X1655	Interface cable	
330 331	Assembly 31 Assembly 31	550-sheet tray option 2 550-sheet tray option 2	2	0SP41X1093/// 0SP41X1094///	41X1093 41X1094	Sensor (pick) Sensor (pass-through)	
332	Assembly 31	550-sheet tray option 2	4	0SP41X1667///	41X1667	Right cover (optional550-sheet tray)	
333	Assembly 31	550-sheet tray option 2	5	0SP41X1120///	41X1120	Paper size sensor actuator	
334 335	Assembly 31 Assembly 31	550-sheet tray option 2 550-sheet tray option 2	6	0SP41X1108/// 0SP41X1665///	41X1108 41X1665	Pick roller Front cover (optional550-sheet tray)	
336	Assembly 31	550-sheet tray option 2	8	0SP40X7911///	40X7911	Sensor (paper size)	
337	Assembly 31	550-sheet tray option 2	9	0SP41X1656///	41X1656	Motor (transport)	
338	Assembly 31	550-sheet tray option 2	10		41X2194	Controller board (optional 550-sheet tray)	
339 340		550-sheet tray option 2 550-sheet tray option 2	11 12	0SP41X1666/// 0SP41X1107///	41X1666 41X1107	Left cover (optional550-sheet tray) Paper feeder	
341		550-sheet tray option 2	13		41X1083	Sensor (paper present)	
342	-	550-sheet tray option 2	14		41X1083	Sensor (pick roller index)	
343		550-sheet tray option 2	15	0SP41X1668///	41X1668	Rear cover (optional550-sheet tray)	
344	Assembly 32			•	-		
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345	Assembly 32	_					
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346 347 348 349 350 351 351 352	Assembly 32 Assembly 32 Assembly 32 Assembly 32 Assembly 32 Assembly 33 Assembly 33	2100-sheet tray option 1	1	- 0SP41X1674///	41X1674	le for MX-B557F/B707F 2100-sheet tray base	
346 347 348 349 350 351	Assembly 32 Assembly 32 Assembly 32 Assembly 32 Assembly 32 Assembly 33 Assembly 33		1 2 3 4			le for MX-B557F/B707F	
346 347 348 349 350 351 352 353 354 355	Assembly 32 Assembly 32 Assembly 32 Assembly 32 Assembly 32 Assembly 33 Assembly 33 Assembly 33 Assembly 33	2100-sheet tray option 1 2100-sheet tray option 1 2100-sheet tray option 1 2100-sheet tray option 1	3 4 5	0SP41X1674/// 0SP41X1672/// 0SP41X1119/// 0SP40X8176///	41X1674 41X1672 41X1119 40X8176	le for MX-B557F/B707F 2100-sheet tray base 2100-sheet tray insert Separator pad A5 length guide	
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19         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10         Autority / 10           19         Autority / 10         Autority / 10         Autority / 10         Autority / 10           10         Autority / 10         Autority / 10         Autority / 10         Autority / 10           10         Autority / 10         Autority / 10         Autority / 10         Autority / 10		-		-									
Bis         Ausdach         Bis           Bis         Ausdach         Bis         Bis           Bis         Ausdach         Bis         Bis           Bis         Ausdach         Bis         Bis         Bis           Bis         Ausdach         Bis         Bis         Bis         Bis           Bis         Ausdach         Bis         Bis         Bis         Bis         Bis           Bis         Ausdach         Bis				8			-						
10         Austin, 2           101         Austin, 2           102         Austin, 2           103         Austin, 2           104         Austin, 2           105         Austin, 2           106         Austin, 2           108	374	Assembly 36											
10         Austin, 2           101         Austin, 2           102         Austin, 2           103         Austin, 2           104         Austin, 2           105         Austin, 2           106         Austin, 2           108			-										
10         Rome 10           10         Rome 10 </td <td>375</td> <td>Assembly 36</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	375	Assembly 36											
10         Auriny 10           101         Serrery 10           102         Auriny 10           103         Serrery 10           104         Auriny 10           105         Serrery 10           106         Serrery 10           107         Serrery 10           108         Serrery 10           109         Serrery 10           100         Serery 10	376	Assembly 36											
10         Auriny 10           101         Serrery 10           102         Auriny 10           103         Serrery 10           104         Auriny 10           105         Serrery 10           106         Serrery 10           107         Serrery 10           108         Serrery 10           109         Serrery 10           100         Serery 10													
Image: Second Parkament	377	Assembly 36											
100         Marrin 20           101         Marrin 20           102         Marrin 20           103         Marrin 20           104         Marrin 20           105         Marrin 20           105         Marrin 20           106         Marrin 20           107         Marrin 20           108         Marin 20           108	378	Assembly 36											
is         Australy 2           is			-		1	lot applicabl	e for MX-B557F/B707F						
30         Journal Jack           31         Journal Jack           32         Journal Jack           33         Journal Jack           34         Journal Jack           35         Journal Jack           36         Journal Jack           37         Journal Jack         Journal Jack           38         Journal Jack         Journal Jack         Journal Jack           38         Journal Jack         Journal Jack         Journal Jack         Journal Jack           39         Journal Jack         Journal Jack         Journal Jack         Journal Jack         Journal Jack           30         Journal Jack         Journal Jack         Journal Jack         Journal Jack         Journal Jack         Journal Jack           30         Journal Jack         Journal	379	Assembly 36											
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No.         No.         No.         No.           36         Auxelly P         No. Auxelly P	381	Assembly 36	-										
100         000000000000000000000000000000000000	382	Assembly 36											
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Simulation         Distance regions         Control         PartNOTE         PartNOTE <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		-											
198         Assembly 2         1000-000000000000000000000000000000000		-		1									
1928         Society 20         1/10.4mm et register or 0         400711         Bench 1/10.2mm et register or 0         400711         Bench 1/10.2mm et register or 0           80         Adamstry 2         100.2mm et register or 0         6         64441102         411188         100.2mm et register or 0         6           80         Adamstry 2         100.2mm et register or 0         6         644111080         411188         100.2mm et register or 0         6           80         Adamstry 2         100.2mm et register or 0         6         644111080         100.2mm et register or 0         6           80         Adamstry 2         100.2mm et register or 0         6         644111080         100.2mm et register or 0         6           80         Adamstry 2         100.2mm et register or 0         6 <td></td> <td>-</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td>		-		2									
Bits         Control of		,		4									
39         Manual, 27         210.0.4.8.107.yop.0.1         /         6844-1.0.002           30         Manual, 27.0.0.4.8.107.yop.0.1         0         6844-1.0.002         -           30         Manual, 27.0.0.4.8.107.yop.0.1         0         6844-1.0.002         -           30         Manual, 27.0.0.4.8.107.yop.0.1         0         6844-1.0.002         -         -           30         Manual, 27.0.0.0.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.		-		5									
95         Automity 2: 100-better typeson in a generation of the second sec		-	, ,	6	0SP41X1108///	41X1108	2100-sheet tray pick roller						
192         Common V7         216 - Guardina Tray option 3         0         68941-17532         4411101         Security 1710 - Guardina Tray option 4         4411101           200         Ameniny 23         Security 2100 - Guardina Tray option 3         10         68411-15532         Ameniny 23           201         Ameniny 23         Security 2100 - Guardina Tray option 3         10         68411-1553         Ameniny 23           202         Ameniny 23         Security 2100 - Guardina Tray option 3         10         69411-15502         400022         Security 1100 - Guardina Tray option 3         10           203         Ameniny 23         Security 1100 - Guardina Tray option 3         10         69411-15502         400022         Security 1100 - Guardina Tray option 3         10		,	, ,										
1930         Concrete VF         210 - Source VF         210 - Source VF			, ,	-									
292         Averally 20           293         Averally 20           294         Averally 20           295         Averally 20           296         Averally 20           201         Averally 20           201         Averally 20           201         Averally 20           201         Averally 20         September 20         September 20           201         Averally 20         September 20         September 20         September 20           201         Averally 20         September 20		-	, ,										
Instrume         Not applicable for MX-B557F/B707F           Start         Automation 50         Start         Star         Star         Start		-	2 roo-sneer iray option 3	10	03F41X1083///	4171083	Jenson (2 100-sheet itay paper present)						
Model         HULE ADJUNCE DUE VIN-1502/17 / 0007           297         Ausenthy 20         Bigs Finder 1         1         608-0002/20         Space States reported         Image: Space States reported           298         Ausenthy 20         Bigs Finder 1         2         609-0002/20         Space States reported         Image: Space States reported           400         Ausenthy 20         Bigs Finder 1         2         659-0002/20         Space States reported           401         Ausenthy 20         Bigs Finder 1         0         659-0002/20         Space States reported           402         Ausenthy 30         Bigs Finder 1         0         659-0002/20         410778         Bigs Finder 1         0         659-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20         500-0002/20		-					o for MY DEEZE /DZOZE						
202         Automity is Displa Induct 1         Induction of DePARO12201         Automity is Displa Induct 1         Induction of DePARO14201         Automity is Displa Induct 1         Induction of DePARO14201         Induction of DePARO14201 <thinduction deparo14201<="" of="" th="">         Inductio</thinduction>			<b>H</b>		1	vot applicabl	e for MIX-B557F/B707F						
39         Averethy 20         Bigle Toular 1         C         0.0984/2002         Bigle Toular 1         C         0.0984/2004           401         Averethy 30         Bigle Toular 1         C         0.0984/2004         H17910         Bigle Toular rept common           401         Averethy 30         Bigle Toular 1         C         0.0984/11108         H17910         Bigle Carding Long Common           402         Averethy 30         Bigle Toular 1         C         0.0984/11104         H17910         Bigle Carding Long Common           403         Averethy 30         Bigle Toular 1         C         0.0984/11104         H17910         Bigle Carding Long Common         H17910         H17			<u> </u>										
400         Ausemby 20         Bayle Initiate 1         6         0PH X17010         Bayle Initiate right control           401         Ausemby 30         Bayle Initiate 1         6         0PH X17010         400000         400000         400000         400000         40000000         40000000         400000000	398	Assembly 39	Staple finisher 1	1	0SP40X8222///	40X8222	Staple finisher topcover						
401         Auerethy 30         Stayle (Initial 1)         40         60PAUX 2001         4407464         Stayle caringle access acc           402         Auerethy 30         Stayle (Initial 1)         6         6PAUX 2001         4407464         Stayle caringle access acc           403         Auerethy 30         Stayle (Initial 1)         16         6PAUX 2001         4407464         Stayle (Initial 1)         16           444         Auerethy 30         Stayle (Initial 1)         16         6PAUX 17150         4417175         Stayle (Initial 1)         16         6PAUX 17161         4417175         Stayle (Initial 1)         16         17         4417175         Stayle (Initial 1)         16         17         17         17         Stayle (Initial 1)         16         17         17         17         17         17         18         17         18         17         17         17         17         17	399	Assembly 39	Staple finisher 1	2	0SP41X2169///	41X2169							
460         Ausentity 30         Stage for instar 1         6.0         0.00000000000000000000000000000000000	400	Assembly 39	Staple finisher 1	3	0SP41X1698///	41X1698	Staple finisher right cover						
400         Ausanthy 20         Stage Instant         4         0 <td>401</td> <td>Assembly 39</td> <td>Staple finisher 1</td> <td>4</td> <td>0SP41X1701///</td> <td>41X1701</td> <td>Staple cartridge access door</td> <td></td>	401	Assembly 39	Staple finisher 1	4	0SP41X1701///	41X1701	Staple cartridge access door						
464         Ausamby2         Base Instart         97         05944332300         4413733         Saros (Instart Instart           465         Ausamby2         Base Instart         1         0594431739         Attributed Instart         1           466         Ausamby2         Base Instart         1         0594430322         413052         More State Instart           467         Ausamby2         Base Instart         1         0594430322         443052         More State Instart           468         Ausamby2         Base Instart         1         0594430322         443032         Barnes Instage Instart         1         0594430324           411         Ausamby2         Base Instart         1         05944332372         4432337         Barnes Instage Instart         1         0594433334           412         Ausamby2         Base Instart         10         0594433323         4433238         Saros Instage Instart         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         1004141         10041411         10041411         10041411	402	Assembly 39	Staple finisher 1	5	0SP40X7466///	40X7466	Staple cartridge holder						
4 Asamshy 20         Stagle Instant 1         8         8 P4 N17107         M11171         Stagle Instant encourt           4 Cal. Asamshy 20         Stagle Instant 21         1         SP44 N17207         M11052           4 Cal. Asamshy 20         Stagle Instant 22         2         SP44 N052007         M110520         March 1106           4 Asamshy 20         Stagle Instant 22         3         SP44 N052007         M110520         March 1106           4 Asamshy 20         Stagle Instant 22         4         SP44 N052007         M110520         March 1106           4 Asamshy 20         Stagle Instant 22         4         SP44 N052007         M110210         M110520           4 Asamshy 20         Stagle Instant 22         4         SP44 N172007         M110210         M110210           4 Asamshy 20         Stagle Instant 24         4         SP44 N172007         M110210         M110210         M110210           4 Asamshy 20         Stagle Instant 24         1         SP44 N172007         M110210         M110210         M110210           4 Asamshy 20         Stagle Instant 24         10         SP44 N172007         M110210         M110210         M110210           4 Asamshy 20         Stagle Instant 24         10         SP44 N172007 <t< td=""><td>403</td><td>Assembly 39</td><td>Staple finisher 1</td><td>6</td><td>0SP41X1704///</td><td>41X1704</td><td>Standard bin LED</td><td></td></t<>	403	Assembly 39	Staple finisher 1	6	0SP41X1704///	41X1704	Standard bin LED						
460         Ausentyy 40         Single Truiter 2         1         0.9941X21797         41X2175         Single Truiter 4         9941X21797           407         Ausentyy 40         Single Truiter 2         2         0.9941X02207         41X0020         Service Uspike finiter bindlin           408         Ausentyy 40         Single Truiter 2         4         0.9941X02177         41X1207         Single Truiter 4         0.9941X02177           410         Ausentyy 40         Single Truiter 2         4         0.9941X02177         Single Truiter 4         0.9941X02177           411         Ausentyy 40         Single Truiter 2         4         0.9941X02177         Single Truiter axts: height samethy           412         Ausentyy 40         Single Truiter 2         4         9.9941X12207         41X1239         Service Uspike Truitersak: height samethy           414         Ausentyy 40         Single Truiter 2         4         9.9541X12307         41X1239         Service Uspike Truitersak: height samethy           415         Ausenty 40         Single Truiter 2         11         9.9541X12307         40X9214         Single Truiter 3         10.9541X12307         40X9214         Single Truiter 3         10.9541X12101         40X9214         Single Truiter 3         10.9541X12101         40X9214         <	404	Assembly 39	Staple finisher 1	7			Sensor (finisher binpaper present)						
407         Assembly 40         Stagle Instant 2         2         6741V055201         4100520         Moor Number 1         9           408         Assembly 40         Stagle Instant 2         4         6544V0202101         4002821         Moor Number 1         9           410         Assembly 40         Stagle Instant 2         6         6544V021201         4102821         Moor Number 1         9           411         Assembly 40         Stagle Instant 2         6         6544V021201         41021201         Stagle Instant 2         6         6544V021201         4101202         Stagle Instant 2         6         6544V021201         400221         Stagle Instant 2         6         6544V021201         400221         Stagle Instant 2         6         6544V021201         400224         Stagle Instant 2         6         6544V021201         400224         Stagle Instant 2         6         6544V021201         400224         Stagle Instant 2         6         6         6         6         6         6         6         6         6         6         6 <td></td> <td>-</td> <td></td> <td>8</td> <td></td> <td></td> <td></td> <td></td>		-		8									
498         Assembly 40         Step Instant 2         93         0694130000000         4150000000         4150000000         4150000000         41500000000         41500000000         41500000000         415000000000000000000000000000000000000		-		1									
1903         Assembly 40         Steple Instant 2         4         0.0PH 0022130///         40.002130///         40.002130///         10.002130////         10.002130////         10.002130/////         10.002130/////         10.002130////         10.002130///////         10.002130//////////////////////////////////				2									
4101         Assembly 40         Steple Instant 2         6         0.9841221970         4132177         Steple Instant zack Keght InstantsTweythy           4111         Assembly 40         Steple Instant 2         6         0.9841372390         41371238           4111         Assembly 40         Steple Instant 2         7         0.9841372390         41371238         Sensor (table Instant zack Keght)           412         Assembly 40         Steple Instant 2         10         0.9841372390         41371238         Sensor (table Instant zack Keght)           416         Assembly 40         Steple Instant 2         10         0.984237210         4403722         Steple Instant 2         10         0.984237210         4403722         Steple Instant 2         11         0.984027211         Steple Instant 2         10         0.984237211         Steple Instant 2         10         <				3									
111         Assembly 40         Steps (Instance 2)         10         0544/X12380         441/X1238         Sensor (steps) (Instance Xupdit)           142         Assembly 40         Steps (Instance 2)         10         0544/X12380         441/X1238         Sensor (steps) (Instance Xupdit)           143         Assembly 40         Steps (Instance 2)         10         0544/X12380         441/X1238         Sensor (steps) (Instance Xupdit)           144         Assembly 40         Steps (Instance 2)         11         0544/X1238         441/X1238         Sensor (steps) (Instance Xupdit)           145         Assembly 40         Steps (Instance 2)         11         0544/XX124         440/X124         440/X124         440/X124           146         Assembly 40         Steps (Instance Xupdit)         440/X124         440/X124 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
1112         Assembly 40         Steple Initiative 2         17         OSP41X2280         441/228         Servar (steple Initiative and ox instructs)           113         Assembly 40         Steple Initiative 2         10         OSP41X21280         441/228         Servar (steple Initiative and ox instructs)           414         Assembly 40         Steple Initiative 2         10         OSP40X2740         440742         Steple Initiative tangenty           416         Assembly 40         Steple Initiative 2         11         OSP40X2740         440742         Steple Initiative tangenty           417         Assembly 40         Steple Initiative 2         12         OSP40X2740         4407744         Steple Initiative tangenty           418         Assembly 40         Steple Initiative 2         16         OSP40X27207         44087720         Steple Initiative divertip pagenty           422         Assembly 40         Steple Initiative 2         16         OSP40X27207         4408725         Steple Initiative divertip pagenty           422         Assembly 40         Steple Initiative 2         16         OSP40X27207         4408742         Steple Initiative assembly           423         Assembly 41         Steple Initiative 2         16         OSP40X27207         4008742         Steple Initiative assemb													
141         Assembly 40         Staple Instaher 2         9         05P41X21202         1412122         Padde goring           145         Assembly 40         Staple Instaher 2         10         05P40X874207         40X8742         Staple Instaher 2         11         05P40X874207         Staple Instaher 2         12         05P40X874207         Staple Instaher 2         12         05P40X874207         Staple Instaher 2         12         05P40X872177         Staple Instaher 2         12         05P40X872177         Staple Instaher 2         12         05P40X872177         Staple Instaher 2         12         05P40X82247         MoX8224         Staple Instaher 2         12         05P40X82247         MoX8224         MoX8226         MoX826         MoX826         MoX826         MoX826         MoX826         MoX826         MoX8272         Staple Instaher 4         MOX826         MoX8272         Staple Instaher 3         MoX82722         Staple Instaher 4         MoX8742         Staple Instaher 4         MoX8742         Staple Instaher 4         MoX8742         Staple Instaher 4 <td< td=""><td>412</td><td></td><td></td><td>7</td><td>0SP41X1238///</td><td></td><td></td><td></td></td<>	412			7	0SP41X1238///								
415         Assembly 40         Stagle Instarts 2         10         05400374207         4003742         Stagle Instarts Instarts           416         Assembly 40         Stagle Instarts 2         11         05400374217         Stagle Instarts Instarts           417         Assembly 40         Stagle Instarts 2         12         0540037217         MoNR24         Stagle Instarts Call           418         Assembly 40         Stagle Instarts 2         13         0540037217         MoNR24         Stagle Instarts Call           419         Assembly 40         Stagle Instarts 2         15         05400372207         MoNR24         Stagle Instart Call           420         Assembly 40         Stagle Instarts 2         15         0540037207         MoNR220         Stagle Instarts Call         MoNR 2           421         Assembly 41         Stagle Instarts 3         1         0540037207         MoNR220         Stagle Instarts 1         MoNR 2         Stagle Instarts 1         MoNR	413	Assembly 40	Staple finisher 2	8	0SP41X1238///	41X1238	Sensor (staple finisherpaddle)						
1410         Assembly 40         Steple finisher 2         11         05P4002744//         4002744/         Steple finisher 10 in kassembly           1471         Assembly 40         Steple finisher 2         15         05P4002224//         4008224         Steple finisher finisher finisher           1416         Assembly 40         Steple finisher 2         15         05P4002224//         4008224         Steple finisher finisher dimeter         400           420         Assembly 40         Steple finisher 2         16         05P4002256//         4002256         Moor (steple finisher dimeter d)         40001111111111111111111111111111111111	414	Assembly 40	Staple finisher 2	9	0SP41X2192///	41X2192	Paddle spring						
1417         Assembly 40         Staple finisher 2         12         05P40X872///         40X8224         Staple finisher and            1418         Assembly 40         Staple finisher 2         14         05P40X8224///         Staple finisher and            420         Assembly 40         Staple finisher 2         15         05P40X8256///         40X8224         Staple finisher devetorp lunger)           421         Assembly 40         Staple finisher 2         16         05P41X2270///         40X8246         Motor (staple finisher devetorp)           422         Assembly 40         Staple finisher 10xad         1         05P41X272///         40X8742         Staple finisher 10xad           424         Assembly 41         Staple finisher 3         2         05P40X874///         40X8742         Staple finisher 10xager assembly           424         Assembly 41         Staple finisher 3         3         05P40X874///         40X8742         Staple finisher 10xager assembly           424         Assembly 41         Staple finisher 3         6         05P40X874///         40X8742         Staple finisher 10xager           424         Assembly 41         Staple finisher 3         6         05P40X874///         40X8723         Staple finisher 40xager         10xager assembly	415	Assembly 40	Staple finisher 2	10	0SP40X8742///	40X8742	Staple finisher binspring						
418         Assembly 40         Staple Inibater 2         13         05P41X02924/ll         40X8224         Staple Inibater cable           419         Assembly 40         Staple Inibater 2         14         05P41X0298/ll         41X0798         Staple Inibater 2         15         05P4X02826/ll           420         Assembly 40         Staple Inibater 2         15         05P4X02826/ll         40X0825         Motor (staple Inibater dwerter)           421         Assembly 40         Staple Inibater 2         17         05P4X02721/ll         40X8725         Staple Inibater dwerter plunger assembly           422         Assembly 41         Staple Inibater 3         2         05P4X078721/ll         40X8742         Staple Inibater of Morter Plunger assembly           424         Assembly 41         Staple Inibater 3         3         05P4X078741/ll         40X8744         Staple Inibater bind Init assembly           426         Assembly 41         Staple Inibater 3         6         05P4X07821/ll         40X8226         Staple Inibater bind Init assembly           427         Assembly 41         Staple Inibater 3         6         05P4X08221/ll         40X8226         Staple Inibater 3         6         05P4X08221/ll         40X8226         Staple Inibater 3         6         05P4X082621/ll         40X8221 <td>416</td> <td>Assembly 40</td> <td>Staple finisher 2</td> <td>11</td> <td>0SP40X8744///</td> <td>40X8744</td> <td>Staple finisher bin link assembly</td> <td></td>	416	Assembly 40	Staple finisher 2	11	0SP40X8744///	40X8744	Staple finisher bin link assembly						
419         Assembly 40         Staple Inisher 2         14         02F4007980//         41X0798         Sensor (staple Inisher diventer plunger)           420         Assembly 40         Staple Inisher 2         15         05F4002250//         40X0258         Motor (staple Inisher diventer plunger assembly)           421         Assembly 40         Staple Inisher 2         17         05F4002720//         40X8722         Staple Inisher diventer plunger assembly           422         Assembly 41         Staple Inisher 3         1         05F4002742//         40X8742         Staple Inisher diventer plunger assembly           422         Assembly 41         Staple Inisher 3         2         05F4002742///         40X8742         Staple Inisher finisher diventer plunger assembly           422         Assembly 41         Staple Inisher 3         3         05F400271///         40X8742         Staple Inisher finisher diventer plunger)           422         Assembly 41         Staple Inisher 3         4         05F400271///         40X8744         Staple Inisher diventer plunger)           423         Assembly 41         Staple Inisher 3         6         05F400271///         40X8728         Staple Inisher diventer plunger)           424         Assembly 41         Staple Inisher 3         7         05F4100564//         4110													
420         Assembly 40         Staple finisher 2         15         05P40X8256///         40X8256         Motor (staple finisher diverter)           421         Assembly 40         Staple finisher 2         16         05F41X8271///         4X8279         Staple finisher diverter Junger assembly           422         Assembly 40         Staple finisher 3         1         05F40X8721///         4X8745         Staple finisher diverter Junger assembly           423         Assembly 41         Staple finisher 3         2         05F40X8721///         4X08744         Staple finisher binsher 3         3         05F40X8721///         4X08721         Staple finisher binsher single         4           424         Assembly 41         Staple finisher 3         4         05F40X8721///         4X08721         Staple finisher bin link assembly         4           424         Assembly 41         Staple finisher 3         6         05F40X8221///         4X8228         Staple finisher divertion lul anno)         4           428         Assembly 41         Staple finisher 3         6         05F41X80201///         4X8228         Staple finisher anno)         4           429         Assembly 41         Staple finisher 3         6         05F41X12180//         41X1218         Staple ninisher anno)         4         3<													
421         Assembly 40         Baple finisher 2         16         0SP41X2279///         41X279         Staple finisher controller board           422         Assembly 40         Baple finisher 2         17         0SP40X872///         40X8722         Staple finisher controller board           423         Assembly 41         Baple finisher 3         2         0SP40X874////         40X872         Staple finisher controller board           424         Assembly 41         Baple finisher 3         2         0SP40X874////         40X874         Staple finisher binks assembly           425         Assembly 41         Baple finisher 3         6         0SP41X874///         40X874         Staple finisher binks assembly           426         Assembly 41         Baple finisher 3         6         0SP41X0822///         41X0822         Staple finisher asing           428         Assembly 41         Baple finisher 3         6         0SP41X0822///         41X0824         Staple finisher asing           430         Assembly 41         Baple finisher 3         6         0SP41X1082///         41X1055         Tamper drive bolt           431         Assembly 42         Baple finisher 4         1         0SP41X1082///         41X1075         Tamper drive bolt           432         Assembly 4		-											
422         Assembly 40         Staple finisher 2         17         GSP40X8722///         40X8742         Staple finisher finisher 3         1         GSP40X8742///         40X8745         Stepre (staple finisher finisher 3)         2           424         Assembly 41         Staple finisher 5         2         GSP40X8742///         40X8742         Staple finisher binsking           425         Assembly 41         Staple finisher 3         3         GSP40X8742////         40X8742         Staple finisher bin link assembly           426         Assembly 41         Staple finisher 3         4         GSP40X872////         40X8721         Staple finisher 10 linker 0           427         Assembly 41         Staple finisher 3         6         GSP40X822////         40X8226         Staple finisher 11 lisen0)           428         Assembly 41         Staple finisher 3         6         GSP40X822////         40X8226         Staple linisher 3         6         GSP40X822////           431         Assembly 42         Staple finisher 3         6         GSP40X822/////         40X822         Tamper spring           432         Assembly 42         Staple finisher 4         1         GSP40X821////         40X8211         Motor (staple finisher finisher finisher finisher finit tamper)           433 <t< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td>  </td></t<>	-												
423         Assembly 41         Staple finisher 3         1         0SP40X8745///         40X8745         Sensor (staple throat paper present)           424         Assembly 41         Staple finisher 3         2         0SP40X8742///         40X8745         Staple finisher bink pringing           425         Assembly 41         Staple finisher 3         4         0SP40X8741///         40X8741         Staple finisher bink assembly           426         Assembly 41         Staple finisher 3         4         0SP40X8741///         40X8721         Staple finisher bin full seembly           427         Assembly 41         Staple finisher 3         5         0SP41X0854///         41X0624         Staple finisher and           428         Assembly 41         Staple finisher 3         7         0SP41X0854///         41X054         Staple unit           430         Assembly 42         Staple finisher 4         2         0SP41X1755///         41X1705         Tamper sping           433         Assembly 42         Staple finisher 4         2         0SP41X1755///         41X1705         Tamper sping           434         Assembly 42         Staple finisher 4         3         0SP40X8211///         40X8211         Motor (staple finisher bink 1 amper)           434         Assembly 42 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td>													
424         Asaembly 41         Staple finisher 3         2         0SP40X8742///         4XX8742         Staple finisher binspring           425         Assembly 41         Staple finisher 3         3         0SP40X8744///         4XX8744         Staple finisher inth           426         Assembly 41         Staple finisher 3         6         0SP40X8721///         4XX8721         Staple finisher inth           427         Assembly 41         Staple finisher 3         6         0SP40X8226///         4XX8226         Staple finisher and           428         Assembly 41         Staple finisher 3         6         0SP40X8226///         4XX8226         Staple finisher and            429         Assembly 41         Staple finisher 3         8         0SP41X2188///         41X0864         Staple cartridge door close limit switch           430         Assembly 42         Staple finisher 4         1         0SP40X8211///         40X8212         Tamper drive belt           431         Assembly 42         Staple finisher 4         2         0SP40X8211///         40X8211         Moor (staple finisheright tamper)           433         Assembly 42         Staple finisher 4         3         0SP40X8211///         40X8211         Moor (staple finisheri 4         0SP40X8211///         40X		,		1									
425         Asambly 41         Staple finisher 3         3         0SF40X8721///         40X8724         Staple finisher inch           426         Assembly 41         Staple finisher 3         4         0SF40X8721///         40X8721         Staple finisher inch            427         Assembly 41         Staple finisher 3         5         0SF410X802//         41X0802         Staple finisher inch            428         Assembly 41         Staple finisher 3         7         0SF410X8226///         41X0802         Staple inisher 3         7         0SF410X821///         41X0802         Staple inisher 4           41X1705         41X1705         41X1705         41X1705         41X1705         41X1705         Tamper drive belt             41X1705         41X1705         41X1705         Tamper drive belt             Staple finisher 4          0SP40X8211///         40X8212         Tamper drive belt             Staple finisher 4         Staple SP40X8211///         40X8214         Motor (staple finisher fatape finisher 4         Staple SP40X8211///         40X8241         Motor (staple finisher fatape finisher 4         Staple ASP40X8211///         Motor (staple finisher 4				2									
427         Assembly 41         Staple finisher 3         6         0SP41X0802///         41X0802         Sensor (staple finisher springwith string           428         Assembly 41         Staple finisher 3         6         0SP40X8228///         40X8226         Staple finisher springwith string           429         Assembly 41         Staple finisher 3         7         0SP41X0654///         41X0654         Staple unit           430         Assembly 41         Staple finisher 3         8         0SP41X2198///         41X0218         Staple cartridge door close limit switch           431         Assembly 42         Staple finisher 4         1         0SP40X8212///         40X8212         Tamper drive belt           433         Assembly 42         Staple finisher 4         2         0SP41X1705///         41X1705         Tamper spring           434         Assembly 42         Staple finisher 4         6         0SP40X8211///         40X8211         Motor (staple finisher finisheri 4         6         0SP41X1704//         41X1704         Staple finisher 4         5         0SP41X1704//         41X1706         Tamper spring           436         Assembly 42         Staple finisher 4         6         0SP41X1704///         41X1218         Tamper spring         437           438				3									
428         Assembly 41         Staple finisher 3         6         0SP40X8226///         40X8226         Staple finisher 3         7         0SP41X0654           429         Assembly 41         Staple finisher 3         7         0SP41X0654         Staple finisher 3         6           430         Assembly 41         Staple finisher 3         8         0SP41X2198///         41X2198         Staple cartidge door close limit switch           431         Assembly 42         Staple finisher 4         1         0SP40X8212///         40X8211         Tamper drive belt           433         Assembly 42         Staple finisher 4         2         0SP40X8211///         40X8211         Motor (staple finisherright tamper)           434         Assembly 42         Staple finisher 4         3         0SP40X8211///         40X8211         Motor (staple finisheright tamper)           435         Assembly 42         Staple finisher 4         5         0SP41X1704//         41X1704         Staple finisher 4         6         0SP41X1704//         41X1704         Staple finisher 4         6         0SP41X2160//         Tamper type are           435         Assembly 42         Staple finisher 4         7         0SP41X2160//         Tamper type are         1         0SP41X2160//         Tamper type are	426	Assembly 41	Staple finisher 3	4	0SP40X8721///	40X8721	Staple finisher latch						
429       Assembly 41       Staple finisher 3       7       0SP41X0654///       41X0654       Staple cartridge door close limit switch         430       Assembly 41       Staple finisher 3       8       0SP41X2198///       40X8212       Tamper drive belt         431       Assembly 42       Staple finisher 4       2       0SP41X1705///       41X1705       Tamper gring         433       Assembly 42       Staple finisher 4       2       0SP40X8211///       40X8211       Motor (staple finisherright tamper)         434       Assembly 42       Staple finisher 4       3       0SP40X8211///       40X8211       Motor (staple finisher finisher finisher 4       6       0SP41X705///         435       Assembly 42       Staple finisher 4       6       0SP41X704///       41X1705       Tamper spring         436       Assembly 42       Staple finisher 4       6       0SP41X704///       41X1705       Staple finisher finisher 4       6       0SP41X704///         437       Assembly 42       Staple finisher 4       7       0SP41X219///       41X2186       Tamper bracket         438       Assembly 42       Staple finisher 4       9       0SP41X216///       41X2180       Tamper spring         440       Assembly 42       Staple finisher 5													
430         Assemby 41         Staple finisher 3         8         0SP41X2198///         41X2198         Staple cartridge door close limit switch           431         Assemby 42         Staple finisher 4         1         0SP40X8212///         40X8212         Tamper drive belt           433         Assembly 42         Staple finisher 4         2         0SP41X1705///         41X1705         Tamper spring           433         Assembly 42         Staple finisher 4         3         0SP40X8211///         40X8211         Motor (staple finisheright tamper)           434         Assembly 42         Staple finisher 4         4         0SP40X8211///         40X8211         Motor (staple finisheright tamper)           435         Assembly 42         Staple finisher 4         5         0SP41X1704///         41X1704         Staple finisher finisher 4         6         0SP41X2196///           436         Assembly 42         Staple finisher 4         6         0SP41X2196///         Tamper bracket         Tamper bracket           437         Assembly 42         Staple finisher 4         8         0SP41X2198///         41X1238         Ensort (staplefinisher left tamper)           438         Assembly 42         Staple finisher 5         1         0SP41X2198///         41X1238         Ensort (staplefinis		-		6									
431         Assembly 42         Staple finisher 4         1         0SP40X8212///         40X8212         Tamper drive belt           432         Assembly 42         Staple finisher 4         2         0SP40X8211///         40X8211         Motor (staple finisheright tamper)           433         Assembly 42         Staple finisher 4         3         0SP40X8211///         40X8211         Motor (staple finisheright tamper)           434         Assembly 42         Staple finisher 4         4         0SP40X8211///         40X8211         Motor (staple finisheright tamper)           435         Assembly 42         Staple finisher 4         5         0SP41X1704//         41X1704         Staple finisher 1         5           436         Assembly 42         Staple finisher 4         6         0SP41X1704//         41X1704         Staple finisher 4         6         0SP41X1704//         41X1238         Bensor (staple finisher left tamper)           437         Assembly 42         Staple finisher 4         8         0SP41X1238//         41X1238         Bensor (staplefinisher left tamper)         444           438         Assembly 42         Staple finisher 4         10         0SP41X1238//         41X1238         Bensor (staplefinisher right tamper)         444           444         Assembly43				7									
432         Assembly 42         Staple finisher 4         2         OSP41X1705///         41X1705         Tamper spring           433         Assembly 42         Staple finisher 4         3         OSP40X8211///         40X8211         Motor (staple finisherright tamper)           434         Assembly 42         Staple finisher 4         4         OSP40X8211///         40X8211         Motor (staple finisheright tamper)           435         Assembly 42         Staple finisher 4         5         OSP41X1704///         41X1704         Staple finisher binLED           436         Assembly 42         Staple finisher 4         6         OSP41X2196///         41X0664         Tamper gear           437         Assembly 42         Staple finisher 4         7         OSP41X2196///         41X1708         Sensor (staplefinisher left tamper)           438         Assembly 42         Staple finisher 4         8         OSP41X2196///         41X1238         Sensor (staplefinisher left tamper)           439         Assembly 42         Staple finisher 5         1         OSP41X2196///         41X1238         Sensor (staplefinisher right tamper)           440         Assembly 42         Staple finisher 5         1         OSP41X2160///         41X1219         Staple finisher paper stack flap (right)				8									
433         Assembly 42         Staple finisher 4         3         OSP40X8211///         40X8211         Motor (staple finisher fight tamper)           434         Assembly 42         Staple finisher 4         4         OSP40X8211///         40X8211         Motor (staple finisher fight tamper)           435         Assembly 42         Staple finisher 4         5         OSP41X1704///         41X1704         Staple finisher finisher fight finisher 4         6         OSP41X10664///         41X2196         Tamper gear           437         Assembly 42         Staple finisher 4         6         OSP41X1238///         41X1238         Sensor (staplefinisher left tamper)           438         Assembly 42         Staple finisher 4         8         OSP41X1238///         41X2180         Tamper aligner           439         Assembly 42         Staple finisher 5         1         OSP41X1238///         41X1238         Sensor (staplefinisher right tamper)           440         Assembly 43         Staple finisher 5         1         OSP41X1238///         41X1238         Sensor (staplefinisher right tamper)           441         Assembly 43         Staple finisher 5         2         OSP40X8210///         40X8210         Staple finisher 5         3 <td></td> <td>-</td> <td></td> <td>1</td> <td></td> <td></td> <td>-</td> <td>  </td>		-		1			-						
434         Assembly 42         Staple finisher 4         4         OSP40X8211///         40X8211         Motor (staple finisher/eff tamper)           435         Assembly 42         Staple finisher 4         5         OSP41X1704///         41X1704         Staple finisher/eff tamper)           436         Assembly 42         Staple finisher 4         6         OSP41X1704///         41X1704         Staple finisher/eff           437         Assembly 42         Staple finisher 4         6         OSP41X2196///         41X0664         Tamper gear           438         Assembly 42         Staple finisher 4         7         OSP41X2138///         41X2196         Tamper bracket           438         Assembly 42         Staple finisher 4         9         OSP41X2180///         41X2180         Tamper stapler           440         Assembly 42         Staple finisher 4         9         OSP41X2180///         41X2180         Tamper stapler           441         Assembly 43         Staple finisher 5         1         OSP41X2199///         41X2199         Staple finisher paper stack flap (fight)           442         Assembly 43         Staple finisher 5         2         OSP40X8210///         40X8210         Staple finisher 5         3         OSP41X2160///           444													
435         Assembly 42         Staple finisher 4         5         0SP41X1704///         41X1704         Staple finisher binLED           436         Assembly 42         Staple finisher 4         6         0SP41X1704///         41X0664         Tamper gear           437         Assembly 42         Staple finisher 4         7         0SP41X2196///         41X1238         Tamper bracket           438         Assembly 42         Staple finisher 4         8         0SP41X1238///         41X1238         Sensor (staplefinisher left tamper)           439         Assembly 42         Staple finisher 4         9         0SP41X1238///         41X2180         Tamper aligner           440         Assembly 43         Staple finisher 4         10         0SP41X2198///         41X2188         Sensor (staplefinisher right tamper)           441         Assembly 43         Staple finisher 5         2         0SP40X8210///         40X8210         Staple finisher right tamper)           442         Assembly 43         Staple finisher 5         2         0SP40X8210///         40X8210         Staple finisher stack flap (left)           443         Assembly 43         Staple finisher 5         3         0SP41X2167///         41X2167         Staple finisher stack flap (left)           444         A				-									
436         Assembly 42         Staple finisher 4         6         0SP41X0664///         41X0664         Tamper gear           437         Assembly 42         Staple finisher 4         7         0SP41X2196///         41X2196         Tamper bracket           438         Assembly 42         Staple finisher 4         8         0SP41X2138///         41X1238         Sensor (staplefinisher left tamper)           439         Assembly 42         Staple finisher 4         9         0SP41X2180///         41X2138         Sensor (staplefinisher left tamper)           440         Assembly 42         Staple finisher 4         10         0SP41X2180///         41X2138         Sensor (staplefinisher right tamper)           441         Assembly 43         Staple finisher 5         1         0SP41X2180///         41X2180         Staple finisher right tamper)           442         Assembly 43         Staple finisher 5         2         0SP40X8210///         40X8210         Staple finisher paper stack flap (right)           443         Assembly 43         Staple finisher 5         3         0SP41X2167///         40X8210         Staple finisher stack flap (right)           444         Assembly 43         Staple finisher 5         3         0SP40X8175///         40X82745         Sensor (staple finisherejactor)													
431         Assembly 42         Staple finisher 4         7         OSP41X2196///         41X2196         Tamper bracket           438         Assembly 42         Staple finisher 4         8         OSP41X1238///         41X1238         Sensor (staplefinisher left tamper)           439         Assembly 42         Staple finisher 4         9         OSP41X1238///         41X1238         Sensor (staplefinisher left tamper)           440         Assembly 42         Staple finisher 4         10         OSP41X1238///         41X1238         Sensor (staplefinisher right tamper)           441         Assembly 43         Staple finisher 5         1         OSP41X1238///         41X2199         Staple finisher paper stack flap (right)           442         Assembly 43         Staple finisher 5         2         OSP41X2199///         41X2199         Staple finisher paper stack flap (right)           443         Assembly 43         Staple finisher 5         3         0SP41X2167///         41X2161         Staple finisher 5           444         Assembly 43         Staple finisher 5         3         0SP41X2167///         41X2162         Staple finisher 5           444         Assembly 43         Staple finisher 5         5         0SP40X8124///         40X814         Sensor (staple finisherisers-through)		-											
438         Assembly 42         Staple finisher 4         8         0SP41X1238///         41X1238         Sensor (staplefinisher left tamper)           439         Assembly 42         Staple finisher 4         9         0SP41X1238///         41X2160         Tamper aligner           440         Assembly 42         Staple finisher 4         10         0SP41X1238///         41X1238         Sensor (staplefinisher right tamper)           441         Assembly 43         Staple finisher 5         1         0SP41X1238///         41X1238         Sensor (staplefinisher right tamper)           442         Assembly 43         Staple finisher 5         1         0SP41X1238///         41X2199         Staple finisher paper stack flap (right)           443         Assembly 43         Staple finisher 5         2         0SP40X8210///         40X8210         Staple finisher paper stack flap (right)           444         Assembly 43         Staple finisher 5         3         0SP41X2167///         41X2167         Staple finisher rejector assembly           444         Assembly 43         Staple finisher 5         3         0SP40X8174///         40X8745         Sensor (staple finishersector)           444         Assembly 43         Staple finisher 5         5         0SP40X8134///         40X8745         Sensor (staple finishe				7									
440         Assembly 42         Staple finisher 4         10         0SP41X1238///         41X1238         Sensor (staplefinisher right tamper)           441         Assembly 43         Staple finisher 5         1         0SP41X1238///         41X2199         Staple finisher right tamper)           441         Assembly 43         Staple finisher 5         2         0SP41X2199///         41X2199         Staple finisher paper stack flap (right)           442         Assembly 43         Staple finisher 5         2         0SP40X8210///         40X8210         Staple finisher paper stack flap (left)           443         Assembly 43         Staple finisher 5         3         0SP41X2167///         41X2167         Staple finisher ejector assembly           444         Assembly 43         Staple finisher 5         4         0SP40X8745///         40X8745         Sensor (staple finisherejector)           444         Assembly 43         Staple finisher 5         5         0SP40X8745///         40X8134         Sensor (staple finisherejector)           444         Assembly 43         Staple finisher 5         5         0SP40X8124///         40X8134         Sensor (staple finisherejector)           445         Assembly 44         Offset stacker 1         1         0SP40X8222///         40X8222         Offset stacker too	438			8									
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442       Assembly 43       Staple finisher 5       2       0SP40X8210///       40X8210       Staple finisher paper stack flap (left)         443       Assembly 43       Staple finisher 5       3       0SP41X2167///       41X2167       Staple finisher ejector assembly         444       Assembly 43       Staple finisher 5       4       0SP40X8745////       40X8745       Sensor (staple finisherejector)         444       Assembly 43       Staple finisher 5       5       0SP40X8134///       40X8134       Sensor (staple finisherpass-through)         445       Assembly 43       Staple finisher 5       5       0SP40X8134///       40X8122       Offset stacker topcover         446       Assembly 44       Offset stacker 1       1       0SP40X8222////       40X8222       Offset stacker rear door         447       Assembly 44       Offset stacker 1       2       0SP41X2169///       41X2169       Offset stacker rear door         448       Assembly 44       Offset stacker 1       3       0SP41X1716///       41X1716       Offset stacker rightcover         449       Assembly 44       Offset stacker 1       4       0SP41X1704///       41X1704       Standard bin LED         450       Assembly 44       Offset stacker 1       5       0SP41X1238///	440		Staple finisher 4	10	0SP41X1238///	41X1238	Sensor (staplefinisher right tamper)						
443       Assembly 43       Staple finisher 5       3       0SP41X2167///       41X2167       Staple finisher ejector assembly         444       Assembly 43       Staple finisher 5       4       0SP40X8745///       40X8745       Sensor (staple finisherejector)         444       Assembly 43       Staple finisher 5       4       0SP40X8745///       40X8745       Sensor (staple finisherejector)         445       Assembly 43       Staple finisher 5       5       0SP40X8134///       40X8134       Sensor (staple finisherpass-through)         446       Assembly 44       Offset stacker 1       1       0SP40X8222///       40X8222       Offset stacker topcover         447       Assembly 44       Offset stacker 1       2       0SP41X2168///       41X2169       Offset stacker rear door         448       Assembly 44       Offset stacker 1       3       0SP41X1706///       41X1716       Offset stacker rightcover         449       Assembly 44       Offset stacker 1       4       0SP41X1704///       41X1704       Standard bin LED         450       Assembly 44       Offset stacker 1       5       0SP41X1238///       41X1238       Sensor (offset stacker bin paper present)	-			1									
444         Assembly 43         Staple finisher 5         4         0SP40X8745///         40X8745         Sensor (staple finisherejector)           445         Assembly 43         Staple finisher 5         5         0SP40X8134///         40X8134         Sensor (staple finisherejector)           446         Assembly 44         Offset stacker 1         1         0SP40X8134///         40X8222         Offset stacker topcover           447         Assembly 44         Offset stacker 1         2         0SP41X2169///         41X2169         Offset stacker rear door           448         Assembly 44         Offset stacker 1         3         0SP41X1761///         41X1716         Offset stacker regr door           449         Assembly 44         Offset stacker 1         3         0SP41X1704///         41X1716         Offset stacker regr door           449         Assembly 44         Offset stacker 1         3         0SP41X1704///         41X1716         Offset stacker regr door           449         Assembly 44         Offset stacker 1         4         0SP41X1704///         41X1704         Standard bin LED           450         Assembly 44         Offset stacker 1         5         0SP41X1238///         41X1238         Sensor (offset stackerbin paper present)	-							ļ					
445         Assembly 43         Staple finisher 5         5         0SP40X8134///         40X8134         Sensor (staple finisherpass-through)           446         Assembly 44         Offset stacker 1         1         0SP40X8134///         40X8222         Offset stacker topcover           447         Assembly 44         Offset stacker 1         2         0SP40X8222///         41X2169         Offset stacker rear door           448         Assembly 44         Offset stacker 1         3         0SP41X176///         41X1716         Offset stacker rightcover           449         Assembly 44         Offset stacker 1         4         0SP41X1704///         41X1704         Standard bin LED           450         Assembly 44         Offset stacker 1         5         0SP41X1238///         41X1238         Sensor (offset stackerbin paper present)		-		3									
446       Assembly 44       Offset stacker 1       1       0SP40X8222///       40X8222       Offset stacker topcover         447       Assembly 44       Offset stacker 1       2       0SP41X2169///       41X2169       Offset stacker rear door         448       Assembly 44       Offset stacker 1       3       0SP41X1716///       41X1716       Offset stacker rightcover         449       Assembly 44       Offset stacker 1       3       0SP41X1704///       41X1704       Standard bin LED         450       Assembly 44       Offset stacker 1       5       0SP41X1238///       41X1238       Sensor (offset stackerbin paper present)				4									
447         Assembly 44         Offset stacker 1         2         0SP41X2169///         41X2169         Offset stacker rear door           448         Assembly 44         Offset stacker 1         3         0SP41X1716///         41X1716         Offset stacker rightcover           449         Assembly 44         Offset stacker 1         4         0SP41X1704///         41X1704         Standard bin LED           450         Assembly 44         Offset stacker 1         5         0SP41X1238///         41X1238         Sensor (offset stackerbin paper present)				5									
448         Assembly 44         Offset stacker 1         3         0SP41X1716///         41X1716         Offset stacker rightcover           449         Assembly 44         Offset stacker 1         4         0SP41X1704///         41X1704         Standard bin LED           450         Assembly 44         Offset stacker 1         5         0SP41X1238///         41X1238         Sensor (offset stackerbin paper present)				2									
449         Assembly 44         Offset stacker 1         4         OSP41X1704///         41X1704         Standard bin LED           450         Assembly 44         Offset stacker 1         5         OSP41X1238///         41X1238         Sensor (offset stackerbin paper present)				3									
450         Assembly 44         Offset stacker 1         5         0SP41X1238///         41X1238         Sensor (offset stackerbin paper present)		-		4									
451 Assembly 44 Offset stacker 1 6 0SP41X1715/// 41X1715 Offset stacker leftcover	450	Assembly 44	Offset stacker 1	5	0SP41X1238///	41X1238	Sensor (offset stackerbin paper present)						
	451	Assembly 44	Offset stacker 1	6	0SP41X1715///	41X1715	Offset stacker leftcover						

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455	Assembly 45 Assembly 45	Offset stacker 2	4	0SP40X8213///	41X0802 40X8213	Motor (offset stacker paddle)	
456	Assembly 45	Offset stacker 2	5	0SP41X2187///	41X2187	Offset stacker stackheight assembly	
457	Assembly 45	Offset stacker 2	6	0SP41X0798///	41X0798	Sensor (offset stacker stack height)	
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459	Assembly 45	Offset stacker 2	8	0SP41X1238///	41X1238	Sensor (offset stacker paddle)	
460	Assembly 45	Offset stacker 2	9	0SP41X2192///	41X2192	Paddle spring	
461	Assembly 45	Offset stacker 2	10	0SP40X8742///	40X8742	Offset stacker bin spring	
462	Assembly 45 Assembly 45	Offset stacker 2 Offset stacker 2	11 12	0SP40X8744/// 0SP40X8721///	40X8744 40X8721	Offset stacker bin link assembly Offset stacker latch	
463	Assembly 45 Assembly 45	Offset stacker 2	12	0SP40X8721///	40X8224	Offset stackerinterface cable	
465	Assembly 45	Offset stacker 2	14	0SP41X0798///	40X0224 41X0798	Sensor (offset stackerdiverter plunger)	
466	Assembly 45	Offset stacker 2	15	0SP40X8256///	40X8256	Motor (offset stackerdiverter)	
467	Assembly 45	Offset stacker 2	16	0SP41X2279///	41X2279	Offset stackercontroller board	
468	Assembly 45	Offset stacker 2	17	0SP40X8722///	40X8722	Offset stacker diverter plunger assembly	
469	Assembly 46	Offset stacker 3	1	0SP40X8745///	40X8745	Sensor (staple throat paper present)	
470	Assembly 46	Offset stacker 3	2	0SP40X8742///	40X8742	Offset stacker binspring	
471	Assembly 46 Assembly 46	Offset stacker 3 Offset stacker 3	3	0SP40X8744/// 0SP40X8721///	40X8744 40X8721	Offset stacker bin link assembly Offset stacker latch	
472	Assembly 46 Assembly 46	Offset stacker 3	5	0SP41X0802///	40X8721 41X0802	Sensor (offset stackerbin full send)	
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475	Assembly 47	Offset stacker 4	1	0SP40X8212///	40X8212	Offset stacker tamperdrive belt	
476	Assembly 47	Offset stacker 4	2	0SP41X1705///	41X1705	Offset stacker tamper spring	
477	Assembly 47	Offset stacker 4	3	0SP40X8211///	40X8211	Motor (offset stackerright tamper)	
478	Assembly 47	Offset stacker 4	4	0SP40X8211///	40X8211	Motor (offset stackerleft tamper)	
479	Assembly 47	Offset stacker 4	5	0SP41X1704///	41X1704	Offset stacker bin LED	
480 481	Assembly 47	Offset stacker 4	6	0SP41X0664/// 0SP41X2196///	41X0664	Offset stacker tamper gear	
481	Assembly 47 Assembly 47	Offset stacker 4 Offset stacker 4	7	0SP41X2196/// 0SP41X1238///	41X2196 41X1238	Offset stacker tamperbracket Sensor (offset stacker left tamper)	┢─────┤
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484	Assembly 47	Offset stacker 4	10	0SP41X1238///	41X1238	Sensor (offset stacker right tamper)	
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486	Assembly 48	Offset stacker 5	2	0SP40X8210///	40X8210	Offset stacker paperstack flap (left)	
487	Assembly 48	Offset stacker 5	3	0SP41X2167///	41X2167	Offset stacker ejectorassembly	
488	Assembly 48	Offset stacker 5	4	0SP40X8745///	40X8745	Sensor (offset stacker ejector)	
489	Assembly 48	Offset stacker 5	5	0SP40X8134///	40X8134	Sensor (offset stacker pass-through)	
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491		Mailbox 1	2	0SP40X8254///	40X8254	Mailbox upper interface cable	
492	,	Mailbox 1	3	0SP40X8253///	40X8253	Mailbox lower interface cable	
493	Assembly 49	Mailbox 1	4	0SP40X8244///	40X8244	Mailbox controller board	
494	Assembly 49	Mailbox 1	5	0SP40X8256///	40X8256	Motor (mailbox diverter)	
495 496	Assembly 49 Assembly 49	Mailbox 1 Mailbox 1	6	0SP41X0529///	41X0529 40X7592	Motor (mailboxtransport)	
490	Assembly 49 Assembly 49	Mailbox 1	8	0SP40X7592/// 0SP40X7592///	40X7592 40X7592	Sensor (mailbox reardoor interlock) Sensor (mailbox diverter plunger)	
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499	-	Mailbox 1	10	0SP40X8726///	40X8726	Mailbox transport drivegear	
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502	Assembly 49	Mailbox 1	13	0SP40X8247///	40X8247	Mailbox bin full flag	
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505	Assembly 50	Mailbox 2	2	0SP40X8249///	40X8249	Mailbox belt	
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514	Assembly 51	Mailbox 3	5	0SP40X8723///	40X8723	Mailbox top diverter	
515	,	Mailbox 3	6	0SP40X8724///	40X8724	Mailbox top dirorter Mailbox middle diverter	
516	,	Mailbox 3	7	0SP41X1870///	41X1870	Mailbox rear door	
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523	Assembly 52	Staple, hole punch finisher 1	7	0SP41X0724///	41X0724	Sensor (SHPF bin paperpresent)	
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529		Staple, hole punch finisher 2	4	0SP40X8211///	40X8211	Motor (SHPF left tamper)	
530	Assembly 53	Staple, hole punch finisher 2	5	0SP41X1704///	41X1704	Staple, hole punch finisher bin LED	
531	Assembly 53	Staple, hole punch finisher 2	6	0SP41X0664///	41X0664	Tamper gear	
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533	Assembly 53	Staple, hole punch finisher 2	8	0SP41X1238///	41X1238	Sensor (SHPF left tamper)	
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535	Assembly 53	Staple, hole punch finisher 2	10	0SP41X1238///	41X1238	Sensor (SHPF right tamper)	
536	Assembly 54	Staple, hole punch finisher 3	1	0SP41X2175///	41X2175	SHPF drive gear assembly	
537	Assembly 54	Staple, hole punch finisher 3	2	0SP41X0529///	41X0529	Motor (SHPF transport)	
538	Assembly 54	Staple, hole punch finisher 3	3	0SP41X0802///	41X0802	Sensor (SHPF bin full)	
539	Assembly 54	Staple, hole punch finisher 3	4	0SP40X8213///	40X8213	Motor (SHPF paddle)	
540	Assembly 54	Staple, hole punch finisher 3	5	0SP41X2187///	41X2187	SHPF stack height assembly	

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542	Assembly 54	Staple, hole punch finisher 3	7	0SP41X1238///	41X1238	Sensor (SHPF rear door interlock)	
543	Assembly 54	Staple, hole punch finisher 3	8	0SP41X1238///	41X1238	Sensor (SHPF paddle)	
544	Assembly 54	Staple, hole punch finisher 3	9	0SP41X2192///	41X2192	Paddle spring	
545	Assembly 54	Staple, hole punch finisher 3	10	0SP41X1710///	41X1710	SHPF bin link tensionspring	
546	Assembly 54	Staple, hole punch finisher 3	11	0SP40X8744///	40X8744	SHPF bin link assembly	
547	Assembly 54	Staple, hole punch finisher 3	12	0SP40X8721///	40X8721	Staple, hole punch finisher latch	
548	Assembly 54	Staple, hole punch finisher 3	13	0SP40X8224///	40X8224	Staple, hole punch finisher interface cable	
549	Assembly 54	Staple, hole punch finisher 3	14	0SP41X0798///	41X0798	Sensor (SHPF diverterplunger)	
550	Assembly 54	Staple, hole punch finisher 3	15	0SP40X8256///	40x8256	Motor (SHPF diverterplunger)	
551	Assembly 54	Staple, hole punch finisher 3	16	0SP41X1708///	41X1708	Staple, hole punch finisher controller board	
552	Assembly 54	Staple, hole punch finisher 3	17	0SP40X8722///	40X8722	SHPF diverter plunger assembly	
553	Assembly 55	Staple, hole punch finisher 4	1	0SP41X0654///	41X0654	Left staple unit	
554	Assembly 55	Staple, hole punch finisher 4	2	0SP40X8745///	40X8745	Sensor (SHPF staplethroat paper present)	
555	Assembly 55	Staple, hole punch finisher 4	3	0SP41X2175///	41X2175	SHPF drive gear assembly	
556	Assembly 55	Staple, hole punch finisher 4	4	0SP41X1709///	41X1709	Staple, hole punch finisher elevator drive	
557	Assembly 55	Staple, hole punch finisher 4	5	0SP41X0709///	41X0709	Sensor (SHPF elevator,top)	
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563	Assembly 56	Staple, hole punch finisher 5	5	0SP40X8744///	40X8744	SHPF bin link assembly	
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565	Assembly 56	Staple, hole punch finisher 5	7	0SP41X1238///	41X1238	Sensor (hole punchbox present)	
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# Notices, conventions, and safety information

## Laser notice

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

Class I laser products are not considered to be hazardous. The printer contains a Class IIIb (3b) AlGaAs laser that is nominally 25 milliwatts operating in the wavelength region of 755–800 nanometers and enclosed in a non-serviceable printhead assembly. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service conditions.

### Avis relatif à l'utilisation du laser

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

Les produits laser de classe I ne sont pas considérés comme dangereux. L'imprimante contient un dispositif laser AlGaAs (arséniure de gallium-aluminium) de classe IIIb (3b) d'une puissance nominale de 25 milliwatts fonctionnant dans la plage de longueurs d'onde allant de 755 à 800 nanomètres et scellé dans un compartiment de têtes d'impression non réparable. Le système laser ainsi que l'imprimante ont été conçus de manière à ce que personne ne soit jamais exposé à des radiations laser dépassant le niveau de classe I dans le cadre d'un fonctionnement normal, de l'entretien par l'utilisateur ou de la maintenance.

### Notificació del làser

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

Els productes de làser Classe I no es consideren perillosos. La impressora conté un làser intern Classe IIIb (3b) AlGaAs que normalment és de 25 miliwatts, que funciona a la regió de longitud d'ona de 755 a 800 nanòmetres i es troba dins d'una unitat de capçals d'impressió no substituïbles. El sistema làser i la impressora estan dissenyats de manera que les persones no estiguin exposades a una radiació del làser superior al nivell de Classe I durant el funcionament normal, el manteniment de l'usuari o les condicions de servei prescrites.

### Aviso de láser

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

Los productos láser de Clase I no se consideran peligrosos. Este producto contiene un láser interno de Clase IIIb (3b) AlGaAs que opera nominalmente a 25 milivatios en una longitud de onda de 755–800 nanómetros, cerrado en un conjunto de cabezal de impresión que no se puede reparar. El sistema láser y la impresora se han diseñado para que el ser humano no acceda nunca a las radiaciones láser por encima del nivel de Clase I durante su uso normal, ni en tareas de mantenimiento o intervenciones de servicio técnico prescritas.

### Aviso sobre laser

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

Os produtos a laser de Classe I não são considerados prejudiciais. A impressora contém, internamente, um laser de Classe IIIb (3b) AlGaAs que funciona nominalmente a 25 miliwatts no comprimento de onda de 755-800 nanômetros, incluso em um conjunto do cabeçote de impressão sem possibilidade de manutenção. O sistema do laser e a impressora foram projetados para que jamais haja acesso humano à radiação do laser acima do nível da Classe I durante a operação normal ou a manutenção pelo usuário ou sob as condições de manutenção prescritas.

#### Avvertenze sui prodotti laser

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

I prodotti laser di Classe I non sono considerati pericolosi. La stampante contiene internamente un laser AlGaAs di Classe IIIb (3b) con valore nominale di 25 milliwatt, funzionante nella regione della lunghezza d'onda dei 755-800 nanometri e contenuto in un gruppo testina di stampa non riparabile. Il sistema laser e la stampante sono stati progettati in modo da impedire l'esposizione a radiazioni laser superiori al livello previsto dalla Classe I durante le normali operazioni di stampa, manutenzione o assistenza.

#### Laserinformatie

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

Laserproducten van klasse I worden geacht geen gevaar op te leveren. De printer bevat intern een laser van klasse IIIb (3b) AlGaAs met een nominaal vermogen van 25 milliwatt in een golflengtebereik van 755–800 nanometer in een niet-bruikbare printkopeenheid. Het lasersysteem en de printer zijn zodanig ontworpen dat gebruikers nooit blootstaan aan laserstraling die hoger is dan het toegestane niveau voor klasse I-apparaten, tijdens normaal gebruik, onderhoudswerkzaamheden door de gebruiker of voorgeschreven servicewerkzaamheden.

### Lasererklæring

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

Klasse I-laserprodukter anses ikke som farlige. Printeren indeholder internt en Klasse IIIb (3b) AlGaAslaser, der nominelt er en 25 milliwatt laser, som fungerer i bølgelængdeområdet 755–800 nanometer og indbygget i en printhovedenhed, der ikke kan serviceres. Lasersystemet og printeren er designet på en sådan måde, at der ikke er en direkte laserstråling, der overskrider Klasse I-niveauet under normal brug, brugers vedligeholdelse eller de foreskrevne servicebetingelser.

#### **Laser-Hinweis**

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

Laserprodukte der Klasse I werden nicht als gefährlich betrachtet. Der Drucker enthält im Inneren einen Laser der Klasse IIIb (3b) AlGaAs mit 25 Milliwatt, der im Wellenlängenbereich von 755–800 Nanometern arbeitet. Dieser befindet sich in einer Druckkopfeinheit, die nicht gewartet werden kann. Das Lasersystem und der Drucker sind so konstruiert, dass unter normalen Betriebsbedingungen, bei der Wartung durch den Benutzer oder bei den vorgeschriebenen Wartungsbedingungen Menschen keiner Laserstrahlung ausgesetzt sind, die die Werte für Klasse I überschreitet.

#### Laserilmoitus

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

Luokan I lasertuotteita ei pidetä haitallisina. Tulostimen sisällä on luokan IIIb (3b) AlGaAs -laser, jonka nimellisteho on 25 mW, joka toimii 755–800 nanometrin aallonpituuksilla ja joka on suljettu tulostuspäähän, jota käyttäjä ei voi huoltaa. Laserjärjestelmä ja tulostin ovat rakenteeltaan sellaisia, että käyttäjä ei joudu alttiiksi luokkaa 1 suuremmalle säteilylle normaalin käytön, ylläpidon tai huollon aikana.

#### Lasermerknad

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

Laserprodukter av klasse I anses ikke som helseskadelige. Skriveren inneholder en intern AlGaAs-laser av klasse IIIb (3b) på nominelt 25 milliwatt, som opererer i bølgelengder på 755–800 nanometer, inni en skrivehodeenhet som ikke kan vedlikeholdes. Lasersystemet og skriveren er utformet slik at mennesker ikke utsettes for laserstråling utover nivået i klasse I under normal drift, vedlikehold eller foreskrevet service.

#### Meddelande om laser

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

Laserprodukter av klass I anses inte vara skadliga. Skrivaren innehåller en klass IIIb (3b) AlGaAs-laser på nominellt 25 mW som arbetar inom en våglängd på 755–800 nm och är innesluten i en icke-servicebar skrivhuvudenhet. Lasersystemet och skrivaren är utformade så att människor aldrig utsätts för laserstrålning över klass I-nivå under normala förhållanden vid användning, underhåll eller service.

#### レーザーについて

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

クラス I レーザー製品は、危険性がないとみなされています。本機には、クラス IIIb (3b) AlGaAs レーザー が内蔵されています。これは、755 ~ 800 ナノメートルの波長で、定格 25 ミリワットで動作するレーザー であり、整備不可のプリントヘッドアセンブリに収容されています。レーザーシステムとプリンタは、通常

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

## 레이저 고지사항

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

Class I 레이저 제품은 위험한 제품으로 간주되지 않습니다. 프린터에는 755~800 나노미터 범위의 파장 영역 에서 공칭 작동하는 25밀리와트 AlGaAs 레이저인 클래스 IIIb(3b) 레이저가 서비스 불가 프린트 헤드 어셈블리 에 내장되어 있습니다. 레이저 시스템과 프린터는 정상적인 작동, 사용자 유지 관리 또는 사전 설명된 서비스 조건에는 사람에게 클래스 I 수준 이상의 레이저 방사가 노출되지 않도록 설계되었습니다.

激光注意事项

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

一般认为分类 I 激光产品不具有危险性。本打印机内部含有分类 IIIb (3b) 的砷化铝镓激光,标称值为 25 毫瓦, 其工作波长范围在 755-800nm 之间,并被封闭在不可维修的打印头配件中。本激光系统及打印机的设计,在 一般操作、使用者维护或规定内的维修情况下,不会使人体接触分类 I 以上等级的辐射。

雷射聲明

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

根據 I 級雷射產品的規定,這類產品不會對人體造成傷害。 本印表機所採用之 IIIb (3b) 級 AlGaAs 雷射在 755 至 800 奈米 (nanometer) 波長範圍內運作時通常為 25 毫瓦特 (milliwatt),且含括在不可修復列印頭組件中。 使 用者只要以正確的方法操作及維護保養,並依照先前所述之維修方式進行修護,此印表機與其雷射系統絕不會 產生 I 級以上的放射線,而對人體造成傷害。

## Conventions

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

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

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

Different types of caution statements include:

**CAUTION**—**POTENTIAL INJURY:** Indicates a risk of injury.

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

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

**CAUTION—TIPPING HAZARD:** Indicates a crush hazard.

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

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

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## **Safety information**

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

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

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

## Consignes de sécurité

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

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

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

#### Informació de seguretat

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

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

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

#### Información de seguridad

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

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

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

#### Informações sobre segurança

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

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

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

#### Informazioni sulla sicurezza

- La sicurezza di questo prodotto è basata sui test e sulle approvazioni del design originale e dei componenti specifici. Il produttore non è responsabile della sicurezza in caso di utilizzo di parti di ricambio non autorizzate.
- Le informazioni di manutenzione per questo prodotto sono state predisposte per essere utilizzate da un tecnico dell'assistenza professionale e non sono state previste per l'uso da parte di altre persone.

• È possibile che vi sia un maggior rischio di scosse elettriche e lesioni personali durante lo smontaggio e la manutenzione di questo prodotto. Il personale dell'assistenza deve comprendere questo rischio e prendere le precauzioni necessarie.

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



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

#### Informatie over veiligheid

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

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

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

#### Sikkerhedsoplysninger

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

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

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

### Sicherheitshinweise

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

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

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

#### Turvallisuusohjeet

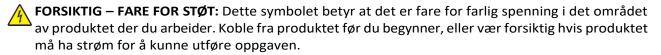
- Tämän laitteen turvallisuus perustuu alkuperäisen rakenteen ja tiettyjen osien testaukseen ja hyväksymiseen. Valmistaja ei vastaa turvallisuudessa, jos laitteessa on käytetty luvattomia vaihto-osia.
- Tämän tuotteen huoltoa koskevat tiedot on tarkoitettu vain ammattitaitoisen huoltohenkilön käyttöön.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

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

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

#### Sikkerhetsinformasjon

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



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

#### Säkerhetsinformation

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

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

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

## 安全情報

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

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

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

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- 이 제품의 안전은 기본 디자인 및 특정 구성품의 승인 및 테스팅을 기반으로 합니다. 제조업체는 권한 없는 교체 부품 사용 시 안전에 대해 책임을 지지 않습니다.
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### 安全信息

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

小心一电击危险:当您看到此符号时,在您工作的产品区域内存在危险电压的威胁。在您开始操作之前请拔掉产品电源,如果产品必须接收功率才能执行任务,请务必谨慎操作。

▲ 小心一可能的伤害:本产品中的锂电池不可更换。如果不正确更换锂电池,可能会有爆炸危险。不要 再充电、拆解或焚烧锂电池。丢弃旧的锂电池时应按照制造商的指导及当地法规进行处理。

安全資訊

- 本產品安全性係以原始設計及特定元件之測試與核准為依據。如有使用未獲授權替換組件之情形者,製造 商對安全性概不負責。
- 本產品之維護資訊僅供專業維修人員使用,而非預定由他人使用。
- 拆裝及維修本產品時,有可能造成電擊與人員損傷之危險。專業維修人員應瞭解前項危險並採取必要措施。
   請當心—觸電危險:當您看到此符號時,表示您所在產品工作區有危險電壓。開始工作之前,請先拔 掉產品電源線,若產品必須接上電源方能執行作業,用電時請務必小心。

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

## **General caution statements**

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

**CAUTION—POTENTIAL INJURY:** To avoid the risk of fire or electrical shock, use only the power cord provided with this product or the manufacturer's authorized replacement.

**CAUTION—POTENTIAL INJURY:** Do not use this product with extension cords, multioutlet power strips, multioutlet extenders, or UPS devices. The power capacity of these types of accessories can be easily overloaded by a laser printer and may result in a risk of fire, property damage, or poor printer performance.



**CAUTION—POTENTIAL INJURY:** Only a Lexmark Inline Surge Protector that is properly connected between the printer and the power cord provided with the printer may be used with this product. The use of non-Lexmark surge protection devices may result in a risk of fire, property damage, or poor printer performance.

Descriptions in page 33 to 36 are not applicable to this model. Therefore it was deleted.

# **General information**

## **Printer model configurations**

The Sharp MX-B557F and MX-B707F printers are network-capable, multifunction laser printers that print monochrome print jobs. All information in this service manual pertains to all models unless explicitly noted.

The printer is available in the following models:

Model name	Configuration / description	Machine type / model number
MX-B557F	Network, duplex print, duplex scan, 10.1-inch e-Task touch screen, fax, hard disk drive	
MX-B707F	Network, duplex print, duplex scan, 10.1-inch e-Task touch screen, fax, hard disk drive	

## Paper support

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

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

## Supported paper sizes

#### Paper sizes supported by the printer

Paper size	Standard 550-sheet tray, optional 550-sheet tray	Optional 2100-sheet tray	Multipurpose feeder	Two-sided printing
<b>A4</b> 210 x 297 mm (8.3 x 11.7 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
<b>A5 or A5 LEF</b> <sup>1</sup> 210 x 148 mm (8.3 x 5.8 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
<b>A5 SEF</b> <sup>1</sup> 148 x 210 mm (5.8 x 8.3 in.)	$\checkmark$	x	$\checkmark$	x
<b>A6</b> 105 x 148 mm (4.1 x 5.8 in.)	$\checkmark$	x	$\checkmark$	$\checkmark$
<b>JIS B5</b> 182 x 257 mm (7.2 x 10.1 in.)	$\checkmark$	x	$\checkmark$	$\checkmark$
<b>Oficio (Mexico)</b> 216 x 340 mm (8.5 x 13.4 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
<b>Statement</b> 140 x 216 mm (5.5 x 8.5 in.)	$\checkmark$	x	$\checkmark$	$\checkmark$
<b>Executive</b> 184 x 267 mm (7.3 x 10.5 in.)	$\checkmark$	x	$\checkmark$	$\checkmark$
Letter 216 x 279 mm (8.5 x 11 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
<b>Legal</b> 216 x 356 mm (8.5 x 14 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
<b>Folio</b> 216 x 330 mm (8.5 x 13 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
<b>Universal</b> 105 x 148 mm (4.1 x 5.8 in.) to 216 x 356 mm (8.5 x 14 in.)	$\checkmark$	x	$\checkmark$	$\checkmark$

<sup>1</sup>A5 long edge feed (LEF) is recommended over A5 short edge feed (SEF).

<sup>2</sup> Envelopes wider than 101.6 mm (4.5 in.) may crease. This paper type must be tested for acceptability.

General information

Paper size	Standard 550-sheet tray, optional 550-sheet tray	Optional 2100-sheet tray	Multipurpose feeder	Two-sided printing
<b>7 3/4 Envelope (Monarch)</b> 98 x 191 mm (3.9 x 7.5 in.)	$\checkmark$	x	$\checkmark$	х
<b>9 Envelope</b> 98 x 225 mm (3.9 x 8.9 in.)	$\checkmark$	x	$\checkmark$	x
<b>10 Envelope</b> <sup>2</sup> 105 x 241 mm (4.1 x 9.5 in.)	$\checkmark$	x	$\checkmark$	x
<b>DL Envelope</b> <sup>2</sup> 110 x 220 mm (4.3 x 8.7 in.)	$\checkmark$	x	$\checkmark$	x
<b>C5 Envelope</b> <sup>2</sup> 162 x 229 mm (6.4 x 9 in.)	$\checkmark$	x	$\checkmark$	x
<b>B5 Envelope</b> <sup>2</sup> 176 x 250 mm (6.9 x 9.8 in.)	$\checkmark$	x	$\checkmark$	x
<b>Other Envelope<sup>2</sup></b> 98.4 x 162 mm (3.9 x 6.4 in.) to 176 x 250 mm (6.9 x 9.8 in.)	$\checkmark$	x	$\checkmark$	x

<sup>2</sup> Envelopes wider than 101.6 mm (4.5 in.) may crease. This paper type must be tested for acceptability.

#### Paper sizes supported by the output options or finishers

Paper size	Offset stacker	4-bin mailbox	Staple finis	her	Staple, hole punch finisher		
			Stack	Staple	Stack	Staple	Hole punch
A4	1	1	1	J			
210 x 297 mm (8.3 x 11.7 in.)	v	v	v	v	v	v	v
A5 or A5 LEF	./	./	./	./	./	./	./
210 x 148 mm (8.3 x 5.8 in.)	V	V	V	v			V
A5 SEF	./	./	./	x	./	x	x
148 x 210 mm (5.8 x 8.3 in.)	V	V					
A6	./	./	x	x	x	x	x
105 x 148 mm (4.1 x 5.8 in.)	V	V					
JIS B5	./	./	./	x	./	x	x
182 x 257 mm (7.2 x 10.1 in.)	V	V	V		V		

Paper size	Offset stacker	4-bin mailbox	Staple fin	isher	Staple, ho	ole punch fii	nisher
			Stack	Staple	Stack	Staple	Hole punch
<b>Oficio (Mexico)</b> 216 x 340 mm (8.5 x 13.4 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
<b>Statement</b> 140 x 216 mm (5.5 x 8.5 in.)	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	x
<b>Executive</b> 184 x 267 mm (7.3 x 10.5 in.)	$\checkmark$	$\checkmark$	$\checkmark$	x	$\checkmark$	x	X
<b>Letter</b> 216 x 279 mm (8.5 x 11 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
<b>Legal</b> 216 x 356 mm (8.5 x 14 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	x
<b>Folio</b> 216 x 330 mm (8.5 x 13 in.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Universal 105 x 148 mm (4.1 x 5.8 in.) to 216 x 356 mm (8.5 x 14 in.)	✓	$\checkmark$	x	×	×	×	x
7 3/4 Envelope (Monarch) 98 x 191mm (3.9 x 7.5 in.)	$\checkmark$	x	x	x	x	x	x
<b>9 Envelope</b> 98 x 225 mm (3.9 x 8.9 in.)	$\checkmark$	x	×	x	x	x	x
<b>10 Envelope</b> 105 x 241 mm (4.1 x 9.5 in.)	$\checkmark$	x	×	x	x	x	x
<b>DL Envelope</b> 110 x 220 mm (4.3 x 8.7 in.)	$\checkmark$	x	×	x	×	x	x
<b>C5 Envelope</b> 162 x 229 mm (6.4 x 9 in.)	$\checkmark$	x	×	×	x	x	x

Paper size	Offset stacker	4-bin mailbox	n mailbox Staple finisher		Staple, hole punch finisher		
			Stack	Staple	Stack	Staple	Hole punch
B5 Envelope	1	x	х	x	x	x	x
176 x 250 mm (6.9 x 9.8 in.)	V						
Other Envelopes	1	x	x	x	x	x	x
98.4 x 162 mm (3.9 x 6.4 in.) to 176 x 250 mm (6.9 x 9.8 in.)	v						

## Supported paper types

### Paper types supported by the printer

Paper type	Standard 550-sheet tray, optional 550-sheet tray	Optional 2100-sheet tray	Multipurpose feeder	Two-sided printing
Plain paper	✓	$\checkmark$	$\checkmark$	$\checkmark$
Card stock	$\checkmark$	x	$\checkmark$	x
Transparency <sup>*</sup>	$\checkmark$	x	$\checkmark$	x
Labels	$\checkmark$	x	$\checkmark$	$\checkmark$
Vinyl labels	$\checkmark$	x	$\checkmark$	x
Bond	$\checkmark$	x	$\checkmark$	$\checkmark$
Envelope	$\checkmark$	x	$\checkmark$	x
Rough envelope	$\checkmark$	x	$\checkmark$	x
Letterhead	$\checkmark$	x	$\checkmark$	$\checkmark$
Preprinted	$\checkmark$	x	$\checkmark$	$\checkmark$
Colored paper	✓	x	$\checkmark$	$\checkmark$
Light	✓	x	$\checkmark$	$\checkmark$

<sup>\*</sup> To prevent transparencies from sticking together, print up to 20 pages only. Print the succeeding pages after three minutes.

Paper type	Standard 550-sheet tray, optional 550-sheet tray	Optional 2100-sheet tray	Multipurpose feeder	Two-sided printing	
Неаvy	$\checkmark$	х	$\checkmark$	$\checkmark$	
Rough/Cotton	$\checkmark$	х	$\checkmark$	$\checkmark$	
Custom type [x]	$\checkmark$	х	$\checkmark$	$\checkmark$	
* To prevent transparencies from sticking together, print up to 20 pages only. Print the succeeding pages after three					

minutes.

#### Paper types supported by the output options or finishers

Paper type	Offset stacker	4-bin				Staple, hole punch finisher			
		mailbox	Stack	Staple	Stack	Staple	Hole punch		
Plain paper	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
Card stock	$\checkmark$	x	$\checkmark$	×	$\checkmark$	x	x		
Transparencies	$\checkmark$	x	$\checkmark$	x	$\checkmark$	x	x		
Labels	$\checkmark$	х	x	x	x	x	x		
Vinyl labels	$\checkmark$	x	x	x	x	x	x		
Bond	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
Envelope	$\checkmark$	x	X	×	x	x	x		
Rough envelope	$\checkmark$	x	x	x	x	x	×		
Letterhead	$\checkmark$	x	x	x	x	x	x		
Preprinted	$\checkmark$	x	x	x	x	x	x		
Colored paper	$\checkmark$	х	x	x	x	x	x		
Light	$\checkmark$	x	x	x	x	x	x		
Неаvy	$\checkmark$	x	x	x	x	x	x		
Rough/Cotton	$\checkmark$	x	x	x	x	x	x		
Custom type [x]	$\checkmark$	x	x	x	x	x	x		

General information

## Supported paper weights

## Paper weights supported by the printer

Paper type and weight	Standard 550-sheet tray, optional 550-sheet tray	Optional 2100-sheet tray	Multipurpose feeder	Two-sided printing
Plain paper or bond <sup>1</sup> 60–176 g/m <sup>2</sup> grain long (16–47-lb bond)	$\checkmark$	$\checkmark$	$\checkmark$	✓
Card stock 203 g/m <sup>2</sup> grain long (125-lb bond)	$\checkmark$	х	$\checkmark$	✓
Card stock 199 g/m <sup>2</sup> grain long (110-lb bond)	$\checkmark$	х	$\checkmark$	✓
<b>Card stock</b> 176 g/m <sup>2</sup> grain long (65-lb bond)	$\checkmark$	х	$\checkmark$	√
Transparency 138–146 g/m <sup>2</sup> grain long (37–39-lb bond)	$\checkmark$	x	$\checkmark$	x
Paper labels 180 g/m <sup>2</sup> (48-lb bond)	$\checkmark$	x	$\checkmark$	√
Integrated forms 140–175 g/m² (37–47-lb bond)	$\checkmark$	x	$\checkmark$	√
Integrated forms 75–135 g/m <sup>2</sup> (20–36-lb bond)	$\checkmark$	x	$\checkmark$	√
Envelopes <sup>2</sup> 60–105 g/m <sup>2</sup> (16–28-lb bond)	$\checkmark$	х	$\checkmark$	✓
<sup>1</sup> Grain short is preferred for paper <sup>2</sup> 28-lb bond envelopes are lim				

#### Paper weights supported by the output options or finishers

Paper type and	Offset stacker	4-bin			Staple, hole punch finisher			
weight		mailbox	Stack	Staple	Stack	Staple	Hole punch	
Plain paper or bond 60–176 g/m <sup>2</sup> grain long (16– 47-lb bond)	$\checkmark$	√	√	√	√	~	√	
Card stock 203 g/m <sup>2</sup> grain long (125-lb bond)	$\checkmark$	x	1	x	√	x	x	
<b>Card stock</b> 199 g/m <sup>2</sup> grain long (110-lb bond)	$\checkmark$	x	✓	×	$\checkmark$	x	x	
<b>Card stock</b> 176 g/m <sup>2</sup> grain long (65-lb bond)	$\checkmark$	x	~	×	~	x	x	
Transparency 138–146 g/m <sup>2</sup> grain long (37– 39-lb bond)	$\checkmark$	x	~	×	√	x	x	
Paper labels 180 g/m <sup>2</sup> (48-lb bond)	√	x	x	x	x	x	x	
Integrated forms 140–175 g/m <sup>2</sup> (37–47-lb bond)	√	x	x	x	x	×	x	
Integrated forms 75–135 g/m <sup>2</sup> (20–36-lb bond)	√	x	x	x	x	×	x	
Envelopes 60–105 g/m <sup>2</sup> (16–28-lb bond)	√	х	x	x	x	×	X	

## **Tools required for service**

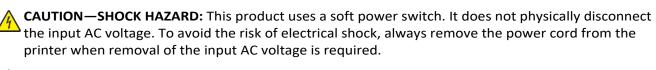
- Flat-blade screwdrivers, various sizes
- #1 Phillips screwdriver, magnetic
- #2 Phillips screwdriver, magnetic

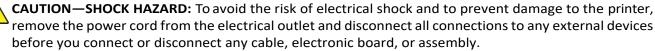
- #2 Phillips screwdriver, magnetic short-blade
- 7/32-inch (5.5-mm) open-end wrench
- 7.0-mm nut driver
- Needle-nose pliers
- Diagonal side cutters
- Spring hook
- Feeler gauges
- Analog or digital multimeter
- Parallel wrap plug 1319128
- Twinax/serial debug cable 1381963
- Coax/serial debug cable 1381964
- Flashlight (optional)
- 3-mm hex wrench
- 5.5-mm hex wrench

#### General information

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# **Diagnostics and troubleshooting**





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

**CAUTION—PINCH HAZARD:** To avoid the risk of a pinch injury, use caution in areas marked with this label. Pinch injuries may occur around moving parts, such as gears, doors, trays, and covers.

## **Troubleshooting overview**

#### Performing the initial troubleshooting check

Before you start the troubleshooting procedures, perform the following checks:

- Use genuine Sharp supplies and parts for the best results. Third-party supplies or parts may affect the performance, reliability, or life of the printer and its imaging components.
- With the power cord unplugged from the electrical outlet, check that the cord is free from the breakage, short circuits, disconnected wires, or incorrect connections.
- Make sure the printer is properly grounded. Check the power cord ground terminal.
- Make sure the power supply line voltage is within 10% of the rated line voltage.
- Make sure the machine is securely installed on a level surface in a well-ventilated area.
- Make sure the room temperature is between 16 and 32°C (60 and 90°F) and that the relative humidity is between 20 and 80%.
- Avoid sites generating ammonia gas, high temperature, high humidity (near water faucets, kettles, humidifiers), cold spaces, near open flames, and dusty areas.
- Avoid sites exposed to direct sunlight.
- Make sure the paper is the recommended paper for this printer.
- Make a trial print with paper from a newly opened package, and check the result.

### **Using Safe Mode**

Safe Mode lets the printer continue to operate in a special limited mode in which it attempts to continue offering as much functionality as possible despite known issues.

Diagnostics and troubleshooting

**Warning—Potential Damage:** Safe Mode is intended as a short-term workaround and should be used only in the case of a non-critical error when a print job must be completed before service can be arranged to repair the printer. The printer must be returned to standard operating mode before diagnostics can be run or full-function printing can continue.

You can enter Safe Mode in one of the following ways:

- Enter Safe Mode from the Configuration menu, and then POR the printer. See <u>"Configuration Menu" on</u> page 416.
- Press the **6** and **7** keys, and then POR the printer.

Return the printer to standard operating mode to service the printer and return to full-function printing.

#### Safe Mode print behavior

The following table outlines the behavior for this printer model while in Safe Mode:

Safe Mode engine features	Engine behavior	Control panel behavior
Simplex printing only	Reports that duplex printing is	Duplex print option is not selectable.
Ignore duplex sensor	disabled.	
Ignore standard bin full sensor	Standard bin full messages are not reported.	Standard bin full messages will not occur.
Print at narrow media operating point	Pages are printed slower.	N/A
Ignore all input options	Reports that only Tray 1 is installed.	Only Tray 1 and the MPF are selectable.
Ignore all output options	Does not any report installed finishing options.	No finishing options are selectable.
Ignore rear door sensor	Rear door open messages are not reported.	Rear door open messages do not occur.
Ignore rear lower door sensor (MX81x only)	Rear lower door open messages are not reported.	Rear lower door open messages do not occur.
Reduce print speed	Pages are printed slower.	N/A
Reduce time to first print	Slower time to first print.	N/A

## **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/m<sup>2</sup>) 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.

#### Gray background on prints check



**Note:** Before performing this print quality check, go to the control panel home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See <u>"Initial print quality check" on page 48</u>.

Actions	Yes	No
Step 1	Go to step 2.	The problem is
<b>a</b> Turn off the printer, wait for 10 seconds, and then turn on the printer.		solved.
<b>b</b> From the printer control panel:		
1 Increase the toner darkness in the Quality menu.		
Note: 8 is the factory default setting.		
2 Set the paper type, texture, and weight in the Paper menu to match the paper loaded.		
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		

Actions	Yes	No
Step 3 Install a genuine and supported toner cartridge.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Remove any packing material left on the imaging unit, including pieces of tape on the side of the unit and the red separator plastic.	Go to step 5.	The problem is solved.
Note: You may need a pair of pliers to remove a piece of broken plastic inside the imaging unit.		
Does the problem remain?		
Step 5 Replace the imaging unit.	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Make sure that connection J15 on the controller board and the connections on the HVPS are properly connected.</li> </ul>	Go to step 8.	Go to step 7.
Are the connections properly connected?		
Step 7 Reseat the connections.	Go to step 8.	The problem is solved.
Does the problem remain?		

Actions	Yes	No
Step 8	Go to step 10.	Go to step 9.
Check all connections in the HVPS for proper connection.		
Is the HVPS properly connected?		
Step 9	Go to step 10.	The problem is
Replace the connections.		solved.
Does the problem remain?		
Step 10	Contact the next	The problem is
Replace the HVPS. See <u>"HVPS removal" on page 467</u> .	level of support.	solved.
Does the problem remain?		

### Printer is printing blank pages check



**Note:** Before performing this print quality check, go to the control panel home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See <u>"Initial print quality check" on page 48</u>.

Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2 Install a genuine and supported toner cartridge.	Go to step 3.	The problem is solved.
Does the problem remain?		

Actions	Yes	No
<ul> <li>Step 3</li> <li>a Check and remove any packing material left on the imaging unit.</li> <li>b Firmly shake the imaging unit to redistribute the toner, and then</li> </ul>	Go to step 4.	The problem is solved.
reinstall it. Does the problem remain?		
Step 4 Check the imaging unit for damage and proper installation, and replace if necessary.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the transfer roller for proper installation.	Go to step 7.	Go to step 6.
Is the transfer roller properly installed?		
<b>Step 6</b> Reinstall the transfer roller. See <u>"Transfer roller removal" on</u> <u>page 490</u> .	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7	Go to step 8.	Go to step 14.
Check the transfer roller for surface contamination and damage.		
Is the transfer roller free of contamination and damage?		
<ul> <li>Step 8</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> </ul>	Go to step 10.	Go to step 9.
<b>b</b> Check all the connections on the HVPS for proper connection.		
Is the HVPS properly connected?		
Step 9 Replace the connections.	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10	Go to step 11.	The problem is
Reseat connection J15 on the controller board.		solved.
Does the problem remain?		
<b>Step 11</b> Replace the connection.	Go to step 12.	The problem is solved.
Does the problem remain?		

Actions	Yes	No
<text><list-item><list-item><list-item></list-item></list-item></list-item></text>	Go to step 13.	The problem is solved.
<ul> <li>b If the coupler is damaged, then replace the main motor drive. See <u>"Main motor drive removal" on page 451</u>.</li> <li>Does the problem remain?</li> </ul>		
Step 13	Go to step 14.	The problem is
Reseat the cable J71 on the controller board.		solved.
Does the problem remain?		
Step 14	Go to step 15.	The problem is
Replace the transfer roller. See <u><b>"Transfer roller removal" on</b></u> page 490.		solved.
Does the problem remain?		

Actions	Yes	No
Step 15 Replace the laser printhead. See <u>"Printhead removal" on</u> page 502.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### Print is too dark check



Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2	Go to step 3.	The problem is
Install a genuine and supported toner cartridge.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
<b>a</b> Turn off the printer, wait for 10 seconds, and then turn on the printer.		solved.
<b>b</b> Reduce the toner darkness.		
From the control panel, navigate to:		
Settings > Print Settings > Quality menu		
Note: 8 is the factory default setting.		
Does the problem remain?		

Actions	Yes	No
<b>Step 4</b> From the control panel, set the paper type, texture, and weight in the Paper menu to match the paper loaded.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Depending on the operating system, specify the paper type, texture, and weight from Printing Preferences or Print dialog.	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Check if the paper loaded has texture or rough finishes.</li> <li>b From the control panel, set the paper texture in the Paper menu to match the texture of the paper loaded.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>Make sure that the paper loaded is from a fresh package.</li> <li>Note: Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it.</li> </ul>	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Replace the imaging unit.	Go to step 9.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 9</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check all the connections on the HVPS for proper connection.</li> <li>Is the HVPS properly connected?</li> </ul>	Contact the next level of support.	Go to step 10.
Step 10	Go to step 11.	The problem is
Replace the connections.		solved.
Does the problem remain?		
<b>Step 11</b> Replace the HVPS. See <u>"HVPS removal" on page 467</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Print is too light check



Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2	Go to step 3.	The problem is
Install a genuine and supported toner cartridge.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
<b>a</b> Turn off the printer, wait for 10 seconds, and then turn on the printer.		solved.
<b>b</b> From the control panel:		
1 Increase the toner darkness in the Quality menu.		
Note: 8 is the factory default setting.		
<ol> <li>Set the paper type, texture, and weight in the Paper menu to match the paper loaded.</li> </ol>		
Does the problem remain?		

Actions	Yes	No
<ul> <li>Step 4</li> <li>a Remove the toner cartridge and imaging unit.</li> <li>b Push either side of the transfer roller, located below the imaging unit, to check if it depresses and bounces back into place.</li> <li>c If the transfer roller does not depress and bounce back into place, then reinstall it by pulling up the blue gear and pulling it out from the right side to the left.</li> <li>d Firmly shake the imaging unit to redistribute the toner, and then reinstall it.</li> <li>e Reinstall the toner cartridge.</li> <li>f Turn off the printer, wait for 10 seconds, and then turn on the printer.</li> </ul>	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a If the issue happens after installing a new maintenance kit, then check whether the transfer roller included with the kit is installed in the printer.</li> <li>b If necessary, replace the transfer roller. See <u>"Transfer roller removal" on page 490</u>.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>Check the shutter on the imaging unit for signs of damage.</li> <li>Note: The shutter opens to receive toner from the toner cartridge.</li> <li>Is the shutter on the imaging unit working properly?</li> </ul>	Go to step 7.	Go to step 8.
<ul> <li>Step 7</li> <li>a Check the status of the imaging unit.</li> <li>1 From the home screen, select Status/supplies.</li> <li>2 Select Supplies.</li> <li>b Check the condition of the imaging unit.</li> <li>Is the imaging unit near end of life and/or showing signs of toner leakage?</li> </ul>	Go to step 8.	Go to step 9.
Step 8 Replace the imaging unit. Does the problem remain?	Go to step 9.	The problem is solved.

Actions	Yes	No
<ul> <li>Step 9</li> <li>a Remove the HVPS shield. See <u>"HVPS removal" on page</u> <u>467</u>.</li> <li>b Verify if all the cables on the HVPS are properly installed. If necessary, reinstall the cables.</li> </ul>	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Replace the transfer roller. See <u><b>"Transfer roller removal" on</b></u> <u>page 490</u> .	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Replace the HVPS. See <u>"HVPS removal" on page 467</u> .	Go to step 12.	The problem is solved.
Does the problem remain?		
<b>Step 12</b> Check connection J71 on the controller board and the connection on the toner add motor for proper connection.	Go to step 14.	Go to step 13.
Are the connections properly connected?		
Step 13 Replace the connections.	Go to step 14.	The problem is solved.
Does the problem remain?		
<b>Step 14</b> Replace the controller board. See <u>"Controller board removal" on</u> <u>page 472</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Paper curl check



Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2	Go to step 3.	The problem is
Install a genuine and supported toner cartridge.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Adjust the guides in the tray to the correct position for the paper loaded.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
From the control panel, set the paper size, type, and weight in the Paper menu to match the paper loaded.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
Depending on the operating system, specify the paper size from Printing Preferences or Print dialog.		solved.
Does the problem remain?		
Step 6	Go to step 7.	The problem is
Remove paper from the tray, and then turn it over.		solved.
Does the problem remain?		
Step 7	Go to step 8.	The problem is
Make sure that the paper loaded is from a fresh package.		solved.
<b>Note:</b> Paper absorbs moisture due to high humidity. Store paper in its original wrapper until you use it.		
Does the problem remain?		
Step 8	Contact the next	Go to step 9.
Make sure that the printer supports the paper loaded.	level of support.	
Is the paper supported?		

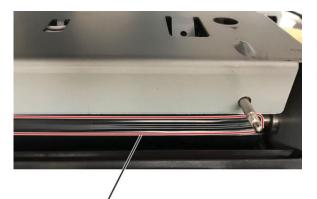
Actions	Yes	No
Step 9 Load a supported paper.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### Folded or wrinkled paper check



**Note:** Before performing this print quality check, go to the control panel home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See <u>"Initial print quality check" on page 48</u>.

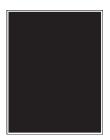
Note: Do not replace the fuser due to a wrinkled backup roller (A).



Ac	tions	Yes	No
	<b>ep 1</b> Check if the printer is using a non-Sharp toner cartridge.	Go to step 2.	The problem is solved.
	<b>Note:</b> If the printer is using a third-party cartridge, then do not replace the imaging unit. Refer the users to their cartridge supplier.		
b	Make sure that the toner cartridge is compatible with the imaging unit.		
Do	bes the problem remain?		

Actions	Yes	No
<ul> <li>Step 2</li> <li>a Check if the paper loaded is from a fresh package.</li> <li>Note: The amount of moisture in paper affects both print quality and printer ability to feed paper correctly.</li> <li>b Make sure that the printer supports the paper loaded. For a complete list of supported paper, see the printer User's Guide.</li> <li>Does the problem remain?</li> </ul>	Go to step 3.	The problem is solved.
<ul> <li>Step 3</li> <li>Make sure that the fuser entry guide is free of waste toner and dust.</li> <li>Warning—Potential Damage: Clean the fuser entry guide with a toner vacuum and cloth. Do not use compressed air.</li> <li>Does the problem remain?</li> </ul>	Go to step 4.	The problem is solved.
Step 4 If the fuser has reached end of life, then replace the maintenance kit. Does the problem remain?	Contact the next level of support.	The problem is solved.

### Printer is printing solid black pages check



Actions	Yes	No
<ul><li>Step 1</li><li>Check if the printer is using a genuine and supported Sharp toner cartridge.</li><li>Note: If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.</li></ul>	Go to step 3.	Go to step 2.
Is the printer using a genuine and supported toner cartridge?		
Step 2 Install a genuine and supported toner cartridge.	Go to step 3.	The problem is solved.
Does the problem remain?		
<image/>	Go to step 4.	The problem is solved.
<b>Note:</b> You may need a pair of pliers to remove a piece of broken plastic inside the imaging unit.		
Does the problem remain?		
<b>Step 4</b> Replace the imaging unit. Does the problem remain?	Go to step 5.	The problem is solved.

Actions	Yes	No
<ul> <li>Step 5</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the cable connections between the HVPS and J15 on the controller board. If necessary, reseat the cables.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
Step 6 Replace the HVPS. See <u>"HVPS removal" on page 467</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### **Repeating defects appear on prints check**



Actions	Yes	No
Step 1	Go to step 2.	Go to step 3.
<b>a</b> From the control panel, navigate to:		
Menu > Help > Print Defects Guide		
<b>b</b> Using the Print Defects Guide, check if the distance between defects is equal to any of the following:		
• 96 mm (3.78 in.)		
• 49 mm (1.93 in.)		
• 47.5 mm (1.87 in.)		
• 30.2 mm (1.18 in.)		
Note: Make sure to measure the defect interval accurately.		
Does the distance measured match any of the items listed?		
Step 2	Go to step 3.	The problem is
Replace the imaging unit.		solved.
Does the problem remain?		

Actions	Yes	No
<ul> <li>Step 3</li> <li>Measure the distance between repeating defects, and then check if it matches any of the following: <ul> <li>3.71 in. (94.25 mm)</li> <li>3.75 in. (95.2 mm)</li> </ul> </li> <li>Does the distance measured match any of the items listed?</li> </ul>	Go to step 4.	Contact the next level of support.
<b>Step 4</b> Replace the fuser. See <u>"Fuser removal" on page 498</u> . Does the problem remain?	Go to step 5.	The problem is solved.
<b>Step 5</b> Replace the transfer roller. See <u>"Transfer roller removal" on</u> <u>page 490</u> . Does the problem remain?	Contact the next level of support.	The problem is solved.

#### **Skewed printcheck**



Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the guides in the tray where the skewed prints are sourced from.		
<b>Note:</b> If paper is sourced from the MPF, then proceed to step 9.		
Does the position of the guides match the paper loaded?		
Step 2	Go to step 3.	The problem is
Adjust the guides to match the paper loaded.		solved.
Does the problem remain?		

Actions	Yes	No
Step 3	Go to step 5.	Go to step 4.
Check if the printer supports the paper loaded.		
<b>Note:</b> For a complete list of supported paper, see the printer <i>User's Guide</i> .		
Is the paper supported?		
Step 4	Go to step 5.	The problem is
Remove the paper, and then load a supported one.		solved.
Does the problem remain?		
Step 5	Go to step 7.	Go to step 6.
Check the tray pick roller for excess wear and contamination.		
Is the pick roller free from excess wear and contamination?		
Step 6	Go to step 7.	The problem is
Replace the pick roller. See <u>"Pick roller removal" on page 511</u> .		solved.
Does the problem remain?		
Step 7	Go to step 8.	The problem is
Perform a print test.		solved.
Enter the Diagnostics menu, and then navigate to:		
Input tray quick print > Tray [x] > Single		
<b>Note:</b> [x] refers to the tray where the skewed prints are sourced from.		
Does the problem remain?		
Step 8	Go to step 15.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Printer diagnostics and adjustments > Registration adjust		
<b>b</b> Adjust the margins.		
Does the problem remain?		
Step 9	Go to step 11.	Go to step 10.
Check the guides in the MPF tray.		
Does the position of the guides match the paper loaded?		
Step 10	Go to step 11.	The problem is
Adjust the guides to match the paper loaded.		solved.
Does the problem remain?		

Actions	Yes	No
<b>Step 11</b> Check if the printer supports the paper loaded.	Go to step 13.	Go to step 12.
<b>Note:</b> For a complete list of supported paper, see the printer <i>User's Guide</i> .		
Is the paper supported?		
<b>Step 12</b> Remove the paper, and then load a supported one.	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Check the MPF pick roller for excess wear and contamination.	Go to step 15.	Go to step 14.
Is the MPF pick roller free from excess wear and contamination?		
Step 14 Replace the MPF pick roller. See <u>"MPF pick roller removal" on</u> page 488.	Go to step 15.	The problem is solved.
Does the problem remain?		
Step 15 Perform the paper skew adjustment. See <u>"Adjustments" on</u> page 431.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### Streaked vertical lines appear on prints check



**Note:** Before performing this print quality check, go to the control panel home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See <u>"Initial print quality check" on page 48</u>.

Note: This check applies only to printer models with a hot roll fuser.

Actions	Yes	No
<ul><li>Step 1</li><li>Check if the printer is using a genuine and supported Sharp toner cartridge.</li><li>Note: If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.</li></ul>	Go to step 3.	Go to step 2.
Is the printer using a genuine and supported toner cartridge?		
Step 2 Install a genuine and supported toner cartridge.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Remove, and then reinstall the imaging unit.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Replace the imaging unit.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Remove the hot roll fuser, and then check for scratches and other damage.	Contact the next level of support.	Go to step 6.
Is the fuser free of scratches and other damage?		
<b>Step 6</b> Replace the hot roll fuser. See <u><b>"Fuser removal" on page 498</b></u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Remove the fuser, and then check the rollers and belts for damage or debris.	Contact the next level of support.	Go to step 8.
Are the rollers and belts free of damage or debris?		
<b>Step 8</b> Replace the fuser. See <u>"Fuser removal" on page 498</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Horizontal light bands check



Actions	Yes	No
Step 1	Go to step 2.	The problem is
Remove, and then clean the imaging unit contacts.		solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Check if the printer is using a genuine and supported Sharp imaging unit.		
Is the printer using a genuine and supported imaging unit?		
Step 3	Go to step 4.	The problem is
Install a genuine and supported imaging unit.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Turn off the printer, wait for 10 seconds, and then turn on the printer.		solved.
Does the problem remain?		
Step 5	Go to step 6.	Go to step 7.
a Remove the HVPS. See <u>"HVPS removal" on page 467</u> .		
<b>b</b> Check if the HVPS wire connectors are pinched or damaged.		
Are the wire connectors pinched or damaged?		
Step 6	Go to step 7.	The problem is
Repair or replace the wire connectors.		solved.
Does the problem remain?		

Actions	Yes	No
Step 7	Go to step 9.	Go to step 8.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<b>b</b> Check connection J15 from the controller board to the HVPS, and then check all other connections on the HVPS.		
Are the connections properly connected?		
Step 8	Go to step 9.	The problem is
Replace the connections.		solved.
Does the problem remain?		
Step 9	Contact the next	The problem is
Replace the HVPS. See <u>"HVPS removal" on page 467</u> .	level of support.	solved.
Does the problem remain?		

### Vertical light bandscheck



Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2	Go to step 3.	The problem is
Install a genuine and supported toner cartridge.		solved.
Does the problem remain?		

Actions	Yes	No
Step 3 Clean the printhead glass. See <u>"Cleaning the printhead glass" on</u> page 799.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Replace the printhead. See <u>"Printhead removal" on page 502</u> .	Go to step 5.	The problem is solved.
Does the problem remain?		
Step 5 Replace the imaging unit.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

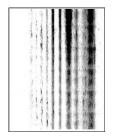
## Vertical dark bandscheck



Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2 Install a genuine and supported toner cartridge.	Go to step 3.	The problem is solved.
Does the problem remain?		

Actions	Yes	No
<b>Step 3</b> Remove any packing material left on the imaging unit, including pieces of tape on the side of the unit and the red separator plastic.	Go to step 4.	The problem is solved.
<b>Note:</b> You may need a pair of pliers to remove a piece of broken plastic inside the imaging unit.		
Does the problem remain?		
Step 4	Contact the next	The problem is
Replace the imaging unit.	level of support.	solved.
Does the problem remain?		

# Vertical dark streaks with print missing check



Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2	Go to step 3.	The problem is
Install a genuine and supported toner cartridge.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Replace the imaging unit.		solved.
Does the problem remain?		
Step 4	Go to step 6.	Go to step 5.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<b>b</b> Check connection J15 from the controller board to the HVPS,		
and then check all other connections on the HVPS.		
Are the connections properly connected?		
Step 5	Go to step 6.	The problem is
Reconnect the cables.		solved.
Does the problem remain?		
Step 6	Contact the next	The problem is
Replace the HVPS. See <u>"HVPS removal" on page 467</u> .	level of support.	solved.
Does the problem remain?		

### White streaks and voided areas check



**Note:** Before performing this print quality check, go to the control panel home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See <u>"Initial print quality check" on page 48</u>.

Diagnostics and troubleshooting

Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, do not replace the imaging unit. Refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2	Go to step 3.	The problem is
Install a genuine and supported toner cartridge.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Set the paper type and weight settings in the Paper menu to match the paper loaded.		solved.
<b>Note:</b> Make sure that the printer supports the paper loaded. For a complete list of supported paper, see the printer <i>User's Guide</i> .		
Does the problem remain?		
Step 4	Go to step 6.	Go to step 5.
<b>a</b> Update the firmware to the latest version available.		
<ul><li>b Enter the Diagnostics menu, and then change the EngSetting 14 value to 48.</li></ul>		
<b>Note:</b> You can also change the setting through a bundle file or NPA command.		
c Set Quite mode to Off.		
<b>d</b> Review the Event Log Summary sheets and check if either error code 31.46 or 31.66 events occurred for the imaging unit. If they did, check if they are occurring with the current toner cartridge.		
Do the errors occur with the current toner cartridge?		

Actions	Yes	No
Step 5 Check the shutter tab (A) on the toner cartridge for signs of damage.	Go to step 6.	Go to step 7.
Is the shutter tab damaged? Step 6	Go to step 7.	The problem is
Replace the imaging unit and the toner cartridge. Does the problem remain?		solved.
Step 7 Check the printhead glass for contamination.	Go to step 8.	Go to step 9.
Is the printhead glass free from dust and debris?		
<ul> <li>Step 8</li> <li>Clean the printhead glass. See <u>"Cleaning the printhead glass" on page 799</u>.</li> <li>Warning—Potential Damage: When cleaning the printhead glass, do not use compressed air.</li> </ul>	Go to step 9.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 9</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check connection J15 from the controller board to the HVPS, and then check all other connections on the HVPS.</li> </ul>	Go to step 11.	Go to step 10.
Are the connections properly connected?		
Step 10 Replace the connections.	Go to step 11.	The problem is solved.
Does the problem remain?		

Actions	Yes	No
<b>Step 11</b> Replace the HVPS. See <u>"HVPS removal" on page 467</u> .	Go to step 12.	The problem is solved.
Does the problem remain?		
Step 12 Replace the laser printhead. See <u>"Printhead removal" on</u> page 502.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### Fine lines are not printed correctly check



**Note:** This issue mostly occurs on fonts or characters with fine lines (especially on Chinese characters). Small texts and details may also not be printed correctly.

Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2 Install a genuine and supported toner cartridge.	Go to step 3.	The problem is solved.
Does the problem remain?		

Actions	Yes	No
Step 3 a From the control panel, navigate to: Print > Quality > Pixel Boost > Fonts	Contact the next level of support.	The problem is solved.
<b>b</b> From the Quality menu, select <b>Toner Darkness</b> , and then adjust the setting to 7.		
c Submit the changes.		
<b>Note:</b> Adjusting the Toner Darkness setting to 7 results in a slightly lighter print. You may leave the Toner Darkness value at 8 in order to maintain the darkness that you have grown accustomed to, but this will result in reduced toner yield.		
Does the problem remain?		

### **Clipped pages or images check**



Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2	Go to step 3.	The problem is
Install a genuine and supported toner cartridge.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Remove, and then reinstall the imaging unit.		solved.
Does the problem remain?		

Actions	Yes	No
Step 4 Replace the imaging unit.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Compressed images appear on prints check



Actions	Yes	No
Step 1 Remove the imaging unit, and then inspect the white photoconductor coupler (A). The coupler should be firmly connected to the imaging unit and should not freely rotate.	Go to step 2.	Go to step 3.
Does the coupler move freely or appear damaged?		
Step 2 Replace the imaging unit.	Go to step 3.	The problem is solved.
Does the problem remain?		

Actions	Yes	No
Step 3 Replace the motor (main). See <u>"Main motor drive removal" on</u> page 451.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### Incorrect margins on prints check



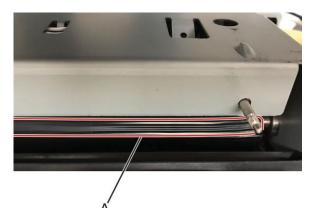
Actions	Yes	No
<b>Step 1</b> Adjust the guides in the tray according to the size of the paper loaded.	Go to step 2.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 2</li> <li>Do one of the following:</li> <li>From the printer control panel, set the paper size in the Paper menu to match the paper loaded in the tray.</li> <li>Change the paper loaded in the tray to match the paper size specified in the tray settings.</li> </ul>	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Depending on the operating system used, specify the paper size from Printing Preferences or from the Print dialog.	Go to step 4 or contact the next level of support.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Registration adjust</li> <li>b Adjust the margins.</li> </ul>	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### **Toner rubs off check**



**Note:** Before performing this print quality check, go to the control panel home screen and navigate to **Settings > Troubleshooting > Print Quality Test Pages**, and then perform the initial print quality check. See <u>"Initial print quality check" on page 48</u>.

**Note:** Do not replace a fuser due to a wrinkled backup roller (A).



Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2	Go to step 3.	The problem is
Install a genuine and supported toner cartridge.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
From the control panel, set the paper type, texture, and weight in		solved.
the Paper menu to match the paper loaded.		
Does the problem remain?		

Actions	Yes	No
Step 4	Go to step 5.	The problem is
Remove, and then reinstall the fuser.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
Replace the fuser. See <u>"Fuser removal" on page 498</u> .		solved.
Does the problem remain?		
Step 6	Go to step 7.	The problem is
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		solved.
<b>b</b> Reseat the connections on the LVPS.		
Does the problem remain?		
Step 7	Contact the next	The problem is
Replace the LVPS. See <u>"LVPS removal" on page 454</u> .	level of support.	solved.
Does the problem remain?		

### Toner specks appear on prints check



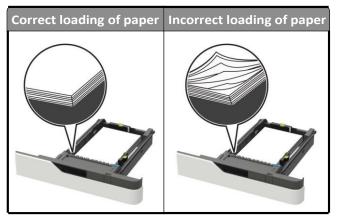
Actions	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp toner cartridge.		
<b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2 Install a genuine and supported toner cartridge.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Check if toner specks appear only on the edges or back side of the pages.	Go to step 4.	Go to step 5.
Do toner specks appear only on the edges or back side of the pages?		
Step 4	Go to step 5.	The problem is
Replace the transfer roller. See <u>"Transfer roller removal" on</u> page 490.		solved.
Does the problem remain?		
Step 5	Go to step 6.	Go to step 7.
a Check the status of the imaging unit.		
1 From the home screen, select <b>Status/supplies</b> .		
<ul><li>2 Select Supplies .</li><li>b Check the condition of the imaging unit.</li></ul>		
Is the imaging unit near end of life and/or showing signs of toner leakage?		
Step 6	Go to step 7.	The problem is
Replace the imaging unit.		solved.
Does the problem remain?		
Step 7	Go to step 8.	Contact the next
Check the printer for stray toner contamination.		level of support.
Is the printer contaminated with stray toner?		
Step 8	Contact the next	The problem is
Using an approved toner vaccum cleaner, completely clean the printer, toner cartridge, and imaging unit of toner contamination.	level of support.	solved.
Does the problem remain?		

# 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.

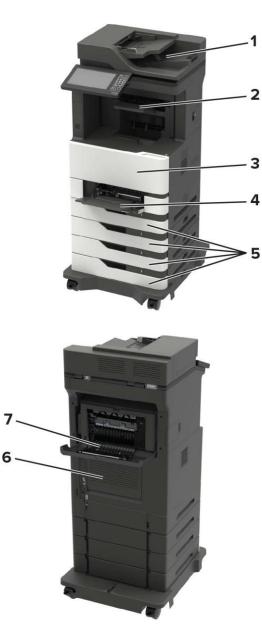
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- Do not mix paper sizes, weights, or types in the same tray.
- Make sure that the paper size and type are set correctly on the computer or printer control panel.
- Store paper according to manufacturer recommendations.

### **Identifying jam locations**

#### Notes:

- 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.



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	Jam locations
1	Automatic document feeder
2	Standard, finisher, or output option bin
3	Door A
4	Multipurpose feeder
5	Trays
6	Door C
7	Finisher or output option rear door
	• Door H
	• Door N
	• Door P

# Paper jam in trays

1 Remove the tray.



**Warning—Potential Damage:** A sensor inside the optional tray is easily damaged by static electricity. Touch a metal surface before removing the jammed paper in the tray.

**2** Remove the jammed paper.

Note: Make sure that all paper fragments are removed.

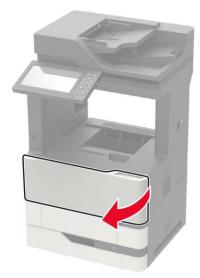


**3** Insert the tray.

### Paper jam in door A

#### 1 Open door A.

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.



**2** Remove the toner cartridge.



**3** Remove the imaging unit.



**Warning—Potential Damage:** Do not expose the imaging unit to direct light for more than 10 minutes. Extended exposure to light may cause print quality problems.

**Warning—Potential Damage:** Do not touch the photoconductor drum. Doing so may affect the quality of future print jobs.

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**4** Pull out the duplex unit.



**5** Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



**6** Insert the duplex unit.

7 Insert the imaging unit.



**8** Insert the toner cartridge.



9 Close the door.

# Paper jam in door C

1 Open door C.

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



**2** Remove the jammed paper from any of the following areas:

Note: Make sure that all paper fragments are removed.

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• Fuser area



• Below the fuserarea



• Duplex area



**3** Close the door.

## Paper jam in the standard bin

Remove the jammed paper.

**Note:** Make sure that all paper fragments are removed.

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### Paper jam in the multipurpose feeder

1 Remove paper from the multipurpose feeder.



**2** Remove the jammed paper.

Note: Make sure that all paper fragments are removed.

**3** Flex, fan, and align the paper edges before loading.



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4 Reload paper.



#### Paper jam in the automatic document feeder

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

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.



**3** Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



4 Close door D.

**5** Open the scanner cover.



6 Open door E.





**7** Remove the jammed paper.

**Note:** Make sure that all paper fragments are removed.



**8** Close door E, and then close the scanner cover.

#### Paper jam in the 4-bin mailbox

#### Paper jam in door N

1 Open door N.



**2** Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



**3** Close the door.

#### Paper jam in the mailbox bin

Remove the jammed paper.



## Paper jam in the offset stacker or staple finisher

#### Paper jam in door H

1 Open door H.



**2** Remove the jammed paper.



**3** Close the door.

#### Paper jam in the offset stacker or staple finisher bin

Remove the jammed paper.



### Paper jam in the staple, hole punch finisher

#### Paper jam in door P

1 Open door P.



**2** Remove the jammed paper.

Note: Make sure that all paper fragments are removed.



**3** Close the door.

#### Paper jam in the staple, hole punch finisher bin

Remove the jammed paper.



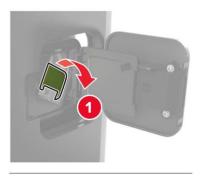
## Staple jam in the staple finisher

1 Open door F.



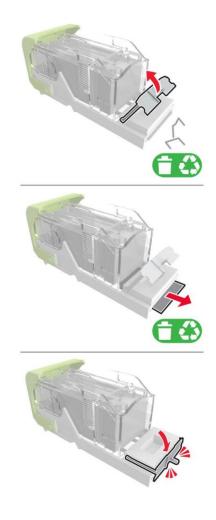


**2** Remove the staple cartridge holder.





**3** Remove the loose staples.



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**4** Press the staples against the metal bracket.



**Note:** If the staples are at the rear of the cartridge, then shake the cartridge downward to bring the staples near the metal bracket.



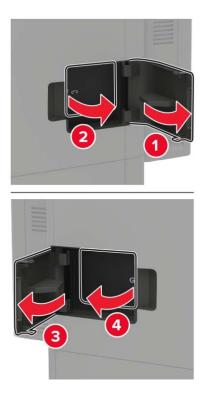
**5** Insert the staple cartridge holder until it *clicks* into place.



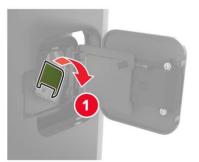
6 Close the door.

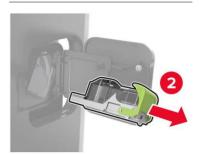
# Staple jam in the staple, hole punch finisher

1 Depending on the staple jam location, open either door F or door G.



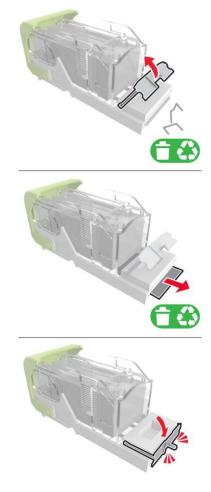
**2** Remove the staple cartridge holder.





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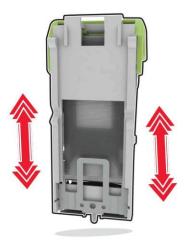
**3** Remove the loose staples.



**4** Press the staples against the metal bracket.



**Note:** If the staples are at the rear of the cartridge, then shake the cartridge downward to bring the staples near the metal bracket.



**5** Insert the staple cartridge holder until it *clicks* into place.



**6** Close the door.

### 200 paper jams

#### 200 paper jam messages

Error code	Description	Action
200.02	Paper fed from the MPF was detected earlier than expected at the sensor (input).	See <u>"Sensor (input) early-arriving jam service</u> <u>check" on page 103</u> .
200.03	Paper fed from the MPF was detected later than expected or was never detected at the sensor (input).	See <u>"Sensor (input) never- or late-arriving jam</u> service check" on page 105.
200.04	Paper fed from the MPF cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam service</u> <u>check" on page 111</u> .
200.05	Paper fed from the MPF never cleared the sensor (input).	See <u>"Sensor (input) late-leaving or did-not-</u> clear jam service check" on page 107.
200.12	Paper fed from tray 1 was detected earlier than expected at the sensor (input).	See <u>"Sensor (input) early-arriving jam service</u> check" on page 103.

Error code	Description	Action
200.13	Paper fed from tray 1 was detected later than expected or was never detected at the sensor (input).	See <u>"Sensor (input) never- or late-arriving jam</u> <u>service check" on page 105</u> .
200.14	Paper fed from tray 1 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam service</u> check" on page 111.
200.15	Paper fed from tray 1 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving or did-not-</u> <u>clear jam service check" on page 107</u> .
200.22	Paper fed from tray 2 was detected earlier than expected at the sensor (input).	See <u>"Sensor (input) early-arriving jam service</u> <u>check" on page 103</u> .
200.23	Paper fed from tray 2 was detected later than expected or was never detected at the sensor (input).	See <u>"Sensor (input) never- or late-arriving jam</u> <u>service check" on page 105</u> .
200.24	Paper fed from tray 2 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam service</u> <u>check" on page 111</u> .
200.25	Paper fed from tray 2 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving or did-not-</u> clear jam service check" on page 107.
200.32	Paper fed from tray 3 was detected earlier than expected at the sensor (input).	See <u>"Sensor (input) early-arriving jam service</u> <u>check" on page 103</u> .
200.33	Paper fed from tray 3 was detected later than expected or was never detected at the sensor (input).	See <u>"Sensor (input) never- or late-arriving jam</u> service check" on page 105.
200.34	Paper fed from tray 3 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam service</u> <u>check" on page 111</u> .
200.35	Paper fed from tray 3 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving or did-not-</u> <u>clear jam service check" on page 107</u> .
200.36	Paper fed from tray 3 was picked but it never reached the sensor (input).	See <u>"Sensor (input) never- or late-arriving jam</u> service check" on page 105.
200.42	Paper fed from tray 4 was detected earlier than expected at the sensor (input).	See <u>"Sensor (input) early-arriving jam service</u> <u>check" on page 103</u> .
200.43	Paper fed from tray 4 was detected later than expected or was never detected at the sensor (input).	See <u>"Sensor (input) never- or late-arriving jam</u> service check" on page 105.
200.44	Paper fed from tray 4 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam service</u> <u>check" on page 111</u> .
200.45	Paper fed from tray 4 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving or did-not-</u> clear jam service check" on page 107.
200.52	Paper fed from tray 5 was detected earlier than expected at the sensor (input).	See <u>"Sensor (input) early-arriving jam service</u> <u>check" on page 103</u> .
200.53	Paper fed from tray 5 was detected later than expected or was never detected at the sensor (input).	See <u>"Sensor (input) never- or late-arriving jam</u> <u>service check" on page 105</u> .
200.54	Paper fed from tray 5 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam service</u> <u>check" on page 111</u> .

Error code	Description	Action
200.55	Paper fed from tray 5 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving or did-not-</u> <u>clear jam service check" on page 107</u> .
200.91	Paper remains detected at the sensor (input) after the printer is turned on.	See <u>"Sensor (input) static jam service check"</u> on page 110.

# Sensor (input) early-arriving jam service check

Action	Yes	No
Step 1	Go to step 2.	Go to step 7.
Identify the source tray.		
Is the MPF the source tray?		
Step 2	Go to step 4.	Go to step 3.
Check the MPF pick roller for excess wear and contamination.		
Is the pick roller free of excess wear and contamination?		
Step 3	Go to step 4.	The problem is
Clean or replace the MPF pick roller. See <u>"MPF pick roller</u> removal" on page 488.		solved.
Does the problem remain?		
Step 4	Go to step 6.	Go to step 5.
a Remove the left cover. See <u>"Left cover removal" on page</u> <u>444</u> .		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Motor tests		
<b>c</b> Select the motor (MPF pick), and then touch <b>Start</b> .		
Does the motor run?		
Step 5	Go to step 6.	The problem is
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		solved.
<b>b</b> Reseat the motor cable J71 on the controller board.		
Does the problem remain?		
Step 6	Go to step 7.	The problem is
Replace the motor. See <u>"Motor (MPF) removal" on page 454</u> .		solved.
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
Check if paper is properly loaded in each tray.		
Is paper properly loaded in each tray?		

Action	Yes	No
<b>Step 8</b> Remove the paper, and then properly load it to the tray.	Go to step 9.	The problem is solved.
Does the problem remain?		
Step 9	Go to step 11.	Go to step 10.
Check each tray for paper fragments and partially fed paper.		
Are the trays free of paper fragments and partially fed paper?		
Step 10	Go to step 11.	The problem is
Remove all paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 11	Go to step 15.	Go to step 12.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Sensor tests		
<b>b</b> Find the sensor (Input).		
Does the sensor status change while toggling the sensor?		
Step 12	Go to step 14.	Go to step 13.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<ul> <li>b Check the sensor cable J27 on the controller board for proper connection.</li> </ul>		
Is the cable properly connected?		
Step 13	Go to step 14.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 14	Go to step 15.	The problem is
Replace the sensor. See <u>"Sensor (input) removal" on page 487</u> .		solved.
Does the problem remain?		
Step 15	Contact the next	The problem is
Perform a print test.	level of support.	solved.
Does the problem remain?		

## Sensor (input) never- or late-arriving jam service check

Action	Yes	No
Step 1	Go to step 10.	Go to step 2.
Check if blank pages were fed out before the error occurred.		
Were there blank pages fed out prior to the error?		
Step 2	Go to step 4.	Go to step 3.
Pull out all the source trays, and then check if the paper size matches the size set on the tray guides.		
Does the paper size match the size set on the tray?		
Step 3	Go to step 4.	The problem is
Change the paper size or adjust the size setting in the tray.		solved.
Does the problem remain?		
Step 4	Go to step 5.	Go to step 6.
Check if the tray is overfilled.		
Is the tray overfilled?		
Step 5	Go to step 6.	The problem is
Remove the excess paper from the tray.		solved.
Does the problem remain?		
Step 6	Go to step 8.	Go to step 7.
Check the tray for crumpled, damaged, or deformed paper.		
Are the sheets of paper on the tray still in good condition?		
Step 7	Go to step 8.	The problem is
Replace the affected sheets.		solved.
Does the problem remain?		
Step 8	Go to step 10.	Go to step 9.
Check the aligner rollers for obstructions.		
Are the aligner rollers free of obstructions?		
Step 9	Go to step 10.	The problem is
Remove the obstructions.		solved.
Does the problem remain?		

Action	Yes	No
Step 10	Go to step 14.	Go to step 11.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Sensor tests		
<b>b</b> Find the sensor (Input).		
Does the sensor status change while toggling the sensor?		
Step 11	Go to step 13.	Go to step 12.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<b>b</b> Check the sensor cable J27 on the controller board for proper connection.		
Is the cable properly connected?		
Step 12	Go to step 13.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 13	Go to step 14.	The problem is
Replace the sensor. See <u>"Sensor (input) removal" on page 487</u> .		solved.
Does the problem remain?		
Step 14	Go to step 17.	Go to step 15.
a Remove the left cover. See <u>"Left cover removal" on page</u> <u>444</u> .		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Motor tests		
<b>c</b> Select the motor (Imaging unit), and then touch <b>Start</b> .		
Does the motor run?		
Step 15	Go to step 16.	The problem is
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		solved.
<b>b</b> Reseat the motor cable J71 on the controller board.		
Does the problem remain?		
Step 16	Go to step 17.	The problem is
Replace the motor. See <u>"Main motor drive removal" on page</u> <u>451</u> .		solved.
Does the problem remain?		

Action	Yes	No
Step 17 Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (input) late-leaving or did-not-clear jam service check

Action	Yes	No
<b>Step 1</b> Pull out all the source trays, and then check if the paper size matches the size set on the tray guides.	Go to step 3.	Go to step 2.
Does the paper size match the size set on the tray?		
<b>Step 2</b> Change the paper size or adjust the size setting in the tray.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Check if the tray is overfilled.	Go to step 4.	Go to step 5.
Is the tray overfilled?		
<b>Step 4</b> Remove the excess paper from the tray.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the tray for crumpled, damaged, or deformed paper.	Go to step 7.	Go to step 6.
Are the sheets of paper on the tray still in good condition?		
<b>Step 6</b> Replace the affected sheets.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Identify the source tray.	Go to step 8.	Go to step 13.
Is the MPF the source tray?		
<b>Step 8</b> Check the MPF pick roller for excess wear and contamination.	Go to step 10.	Go to step 9.
Is the pick roller free of excess wear and contamination?		

Action	Yes	No
Step 9 Clean or replace the MPF pick roller. See <u>"MPF pick roller</u> removal" on page 488.	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10         a Remove the left cover. See <u>"Left cover removal" on page 444</u> .	Go to step 13.	Go to step 11.
<ul> <li>b Enter the Diagnostics menu, and then navigate to:</li> <li>Printer diagnostics and adjustments &gt; Motor tests</li> <li>c Select the motor (MPF pick), and then touch Start.</li> </ul>		
Does the motor run?		
<ul> <li>Step 11</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Reseat the motor cable J71 on the controller board.</li> </ul>	Go to step 12.	The problem is solved.
Does the problem remain?		
<b>Step 12</b> Replace the motor. See <u>"Motor (MPF) removal" on page 454</u> . Does the problem remain?	Go to step 13.	The problem is solved.
Step 13	Go to step 15.	Go to step 14.
Check the pick roller of the source tray for dirt, excess wear, and contamination.		
Note: Check also the gears for debris and toner.		
Are the pick roller components free of dirt, excess wear, and contamination?		
Step 14 Clean or replace the pick roller.	Go to step 15.	The problem is solved.
Does the problem remain?	C	
Step 15 Check the aligner rollers for obstructions.	Go to step 17.	Go to step 16.
Are the aligner rollers free of obstructions?		
<b>Step 16</b> Remove the obstructions.	Go to step 17.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 17	Go to step 21.	Go to step 18.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Sensor tests		
<b>b</b> Find the sensor (Input).		
Does the sensor status change while toggling the sensor?		
Step 18	Go to step 20.	Go to step 19.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<ul> <li>b Check the sensor cable J27 on the controller board for proper connection.</li> </ul>		
Is the cable properly connected?		
Step 19	Go to step 20.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 20	Go to step 21.	The problem is
Replace the sensor. See <u>"Sensor (input) removal" on page 487</u> .	00 to step 21.	solved.
Does the problem remain?		
Step 21	Go to step 23.	Go to step 22.
Perform a print test on each tray, and then check if the paper is properly picked and transported out of the source tray by the paper feeder.		
Was the paper properly transported by the paper feeder?		
Step 22	Go to step 23.	The problem is
Replace the affected paper feeder.		solved.
Does the problem remain?		
Step 23	Go to step 25.	Go to step 24.
Perform a print test, and then check if the paper is properly transported by the main motor drive to the sensor (input).		
Was the paper properly transported by the main motor drive?		
Step 24	Go to step 25.	The problem is
Replace the main motor drive. See <u>"Main motor drive removal"</u> on page 451.		solved.
Does the problem remain?		

Action	Yes	No
Step 25 Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (input) static jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 7.	Go to step 4.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Sensor tests		
<b>b</b> Find the sensor (Input).		
Does the sensor status change while toggling the sensor?		
Step 4	Go to step 6.	Go to step 5.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<b>b</b> Check the sensor cable J27 on the controller board for proper connection.		
Is the cable properly connected?		
Step 5	Go to step 6.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 6	Go to step 7.	The problem is
Replace the sensor. See <u>"Sensor (input) removal" on page 487</u> .		solved.
Does the problem remain?		
Step 7	Contact the next	The problem is
Perform a print test.	level of support.	solved.
Does the problem remain?		

## Sensor (input) early-leaving jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check if paper is properly loaded in each tray.		
Is paper properly loaded in each tray?		
Step 4	Go to step 5.	The problem is
Remove the paper, and then properly load it to the tray.		solved.
Does the problem remain?		
Step 5	Contact the next	The problem is
Perform a print test.	level of support.	solved.
Does the problem remain?		

## 202 paper jams

#### 202 paper jam messages

Error code	Description	Action
202.02	Paper fed from the MPF was detected earlier than expected at the sensor (fuser exit).	See <u>"Sensor (fuser exit) early-arriving jam</u> service check" on page 113.
202.03	Paper fed from the MPF never reached the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-arriving jam service</u> <u>check" on page 114</u> .
202.04	Paper fed from the MPF cleared the sensor (fuser exit) earlier than expected.	See <u>"Sensor (fuser exit) early-leaving jam</u> service check" on page 118.
202.05	Paper fed from the MPF never cleared the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-leaving jam service</u> check" on page 119.
202.12	Paper fed from tray 1 was detected earlier than expected at the sensor (fuser exit).	See <u>"Sensor (fuser exit) early-arriving jam</u> service check" on page 113.
202.13	Paper fed from tray 1 never reached the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-arriving jam service</u> <u>check" on page 114</u> .
202.14	Paper fed from tray 1 cleared the sensor (fuser exit) earlier than expected.	See <u>"Sensor (fuser exit) early-leaving jam</u> service check" on page 118.

Error code	Description	Action
202.15	Paper fed from tray 1 never cleared the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-leaving jam service</u> <u>check" on page 119</u> .
202.22	Paper fed from tray 2 was detected earlier than expected at the sensor (fuser exit).	See <u>"Sensor (fuser exit) early-arriving jam</u> service check" on page 113.
202.23	Paper fed from tray 2 never reached the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-arriving jam service</u> <u>check" on page 114</u> .
202.24	Paper fed from tray 2 cleared the sensor (fuser exit) earlier than expected.	See <u>"Sensor (fuser exit) early-leaving jam</u> <u>service check" on page 118</u> .
202.25	Paper fed from tray 2 never cleared the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-leaving jam service</u> <u>check" on page 119</u> .
202.32	Paper fed from tray 3 was detected earlier than expected at the sensor (fuser exit).	See <u>"Sensor (fuser exit) early-arriving jam</u> service check" on page 113.
202.33	Paper fed from tray 3 never reached the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-arriving jam service</u> <u>check" on page 114</u> .
202.34	Paper fed from tray 3 cleared the sensor (fuser exit) earlier than expected.	See <u>"Sensor (fuser exit) early-leaving jam</u> service check" on page 118.
202.35	Paper fed from tray 3 never cleared the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-leaving jam service</u> <u>check" on page 119</u> .
202.42	Paper fed from tray 4 was detected earlier than expected at the sensor (fuser exit).	See <u>"Sensor (fuser exit) early-arriving jam</u> service check" on page 113.
202.43	Paper fed from tray 4 never reached the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-arriving jam service</u> <u>check" on page 114</u> .
202.44	Paper fed from tray 4 cleared the sensor (fuser exit) earlier than expected.	See <u>"Sensor (fuser exit) early-leaving jam</u> service check" on page 118.
202.45	Paper fed from tray 4 never cleared the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-leaving jam service</u> <u>check" on page 119</u> .
202.52	Paper fed from tray 5 was detected earlier than expected at the sensor (fuser exit).	See <u>"Sensor (fuser exit) early-arriving jam</u> service check" on page 113.
202.53	Paper fed from tray 5 never reached the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-arriving jam service</u> <u>check" on page 114</u> .
202.54	Paper fed from tray 5 cleared the sensor (fuser exit) earlier than expected.	See <u>"Sensor (fuser exit) early-leaving jam</u> service check" on page 118.
202.55	Paper fed from tray 5 never cleared the sensor (fuser exit).	See <u>"Sensor (fuser exit) late-leaving jam service</u> <u>check" on page 119</u> .
202.91	Paper remains detected at the sensor (fuser exit) after the printer is turned on.	See <u>"Sensor (fuser exit) static jam service check"</u> on page 121.
202.93	The sensor (fuser exit) detected a jam during or after a flush action.	See <u>"Sensor (fuser exit) late-arriving jam service</u> <u>check" on page 114</u> .

## Sensor (fuser exit) early-arriving jam service check

Action	Yes	No
<b>Step 1</b> Check if paper is properly loaded in each tray.	Go to step 3.	Go to step 2.
Is paper properly loaded in each tray?		
Step 2 Remove the paper, and then properly load it to the tray.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 5.	Go to step 4.
Are the paper path and trays free of paper fragments and partially fed paper?		
Step 4 Remove all paper fragments and partially fed paper.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>b Find the sensor (Fuser exit).</li> </ul>	Go to step 8.	Go to step 6.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 6</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the cable J60 on the controller board for proper connection.</li> </ul>	Go to step 8.	Go to step 7.
Is the cable properly connected?		
Step 7 Reseat the cable, and then perform a print test.	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Replace the fuser. See <u>"Fuser removal" on page 498</u> .	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 9 Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### Sensor (fuser exit) late-arriving jam service check

#### Notes:

- Make sure to install a genuine and supported toner cartridge.
- Do not replace a fuser due to a wrinkled backup roller (A).



Action	Yes	No
Step 1	Go to step 2.	Go to step 3.
<ul> <li>a Remove the toner cartridge.</li> <li>b Inside the printer on the left side, check if the roller (A) is missing.</li> </ul>		
Note: A dislodged or missing roller may cause a grinding noise when the printer is operating. Is the roller missing?		
<ul> <li>Step 2</li> <li>a Find the missing roller at the following locations: <ul> <li>Check inside the printer.</li> <li>Remove, and then check the toner cartridge drive.</li> </ul> </li> <li>b Reinstall the roller (if found) or replace the toner cartridge drive.</li> </ul>	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Check the fuser for damage and life expiration.	Go to step 4.	Go to step 5.
Is the fuser damaged or has it reached end of life?		
Step 4 Replace the fuser. See <u>"Fuser removal" on page 498</u> . Does the problem remain?	Go to step 5.	The problem is solved.
Step 5	Go to step 6.	The problem is
Remove obstructions from the fuser.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>b Find the sensor (Fuser exit).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 10.	Go to step 7.
<ul> <li>Step 7</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the cable J60 on the controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 10.	Go to step 8.
Step 8 Reseat the cable, and then perform a print test. Does the problem remain?	Go to step 9.	The problem is solved.
Step 9 Replace the fuser. See <u>"Fuser removal" on page 498</u> . Does the problem remain?	Go to step 10.	The problem is solved.
Step 10 Check the transfer roller for damage. Is the transfer roller free of damage?	Go to step 12.	Go to step 11.
<b>Step 11</b> Replace the transfer roller. See <u>"Transfer roller removal" on</u> <u>page 490</u> . Does the problem remain?	Go to step 12.	The problem is solved.

Action	Yes	No
Step 12 a Remove the fuser. See <u>"Fuser removal" on page 498</u> . b Manually rotate the fuser drive gear (A). Note: The gear should turn smoothly, but with some resistance. A Output Output Output Des the gear rotate properly?	Go to step 14.	Go to step 13.
Step 13	Go to step 14.	The problem is
Replace the fuser drive gear. See <u>"Fuser drive gear removal" on</u> page 452.		solved.
Does the problem remain?		
Step 14	Go to step 16.	Go to step 15.
Check the aligner rollers for obstructions and damage.		
Are the aligner rollers free of obstructions and damage?		
Step 15	Go to step 16.	The problem is
Remove the obstructions or replace the aligner rollers. See <u>"Aligner removal" on page 486</u> .		solved.
Does the problem remain?		

Action	Yes	No
Step 16	Go to step 19.	Go to step 17.
Perform a print test, and then check if the paper is properly transported by the fuser drive motor assembly to the sensor (fuser exit).		
Was the paper properly transported by the fuser drive motor assembly?		
Step 17	Go to step 18.	The problem is
Reseat the cable J71 on the controller board.		solved.
Does the problem remain?		
Step 18	Go to step 19.	The problem is
Replace the motor (fuser). See <u>"Main motor drive removal" on</u> page 451.		solved.
Does the problem remain?		
Step 19	Contact the next	The problem is
Perform a print test.	level of support.	solved.
Does the problem remain?		

## Sensor (fuser exit) early-leaving jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Are the paper path and trays free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove all paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Perform a print test.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Replace the fuser. See <u>"Fuser removal" on page 498</u> .		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 5</b> Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (fuser exit) late-leaving jam service check

Action	Yes	No
<b>Step 1</b> Check the rear door for damage. Make sure that the rear door properly closes.	Go to step 3.	Go to step 2.
Is the rear door functional and free of damage?		
Step 2 Replace the rear door. See <u>"Rear door removal" on page 493</u> .	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Check the fuser for damage and life expiration.	Go to step 4.	Go to step 5.
Is the fuser damaged or has it reached end of life?		
Step 4 Replace the fuser. See <u>"Fuser removal" on page 498</u> .	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>b Find the sensor (Fuser exit).</li> </ul>	Go to step 9.	Go to step 6.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 6</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the cable J60 on the controller board for proper connection.</li> </ul>	Go to step 8.	Go to step 7.
Is the cable properly connected?		
Step 7 Reseat the cable, and then perform a print test.	Go to step 8.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 8</b> Replace the fuser. See <u>"Fuser removal" on page 498</u> .	Go to step 9.	The problem is solved.
Does the problem remain?		
Step 9	Go to step 11.	Go to step 10.
Check the upper redrive for damage.		
Is the upper redrive free of damage?		
Step 10	Go to step 11.	The problem is
Replace the upper redrive. See <u>"Upper redrive removal" on</u> page 499.		solved.
Does the problem remain?		
Step 11	Go to step 14.	Go to step 12.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Motor tests		
<b>b</b> Select the motor (redrive), and then touch <b>Start</b> .		
Does the motor run?		
Step 12	Go to step 13.	The problem is
Reseat the cable J66 on the controller board.		solved.
Does the problem remain?		
Step 13	Go to step 14.	The problem is
Replace the motor (redrive). See <u>"Motor (redrive) removal" on</u> page 457.		solved.
Does the problem remain?		
Step 14	Contact the next	The problem is
Perform a print test.	level of support.	solved.
Does the problem remain?		

## Sensor (fuser exit) static jam service check

Action	Yes	No
<b>Step 1</b> Check the paper path and the trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Are the paper path and trays free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
<ul> <li>Step 3</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>b Find the sensor (Fuser exit).</li> </ul>	Go to step 6.	Go to step 4.
<ul> <li>Step 4</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the cable J60 on the controller board for proper connection.</li> </ul>	Go to step 6.	Go to step 5.
Is the cable properly connected? Step 5 Reseat the cable, and then perform a print test. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Replace the fuser. See <u>"Fuser removal" on page 498</u> .	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7	Contact the next level of support.	The problem is solved.
Perform a print test.		
Does the problem remain?		

## 221 paper jams

#### 221 paper jam messages

Error	code	Description	Action
221.91	1	Paper remains detected at the sensor (narrow media) after the printer is turned on.	See <u>"Sensor (narrow media) static jam service</u> <u>check" on page 122</u> .
221.9	3	Paper never arrived at the sensor (narrow media). Paper source is undetermined.	See <u>"Sensor (narrow media) late-arriving jam</u> service check" on page 123.

#### Sensor (narrow media) static jam service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Are the paper path and trays free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 3</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>b Find the sensor (Narrow media).</li> </ul>	Go to step 6.	Go to step 4.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 4</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the cable J60 on the controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 6.	Go to step 5.
Step 5	Go to step 6.	The problem is
Reseat the cable, and then perform a print test.		solved.
Does the problem remain?		
<b>Step 6</b> Replace the fuser. See <u>"Fuser removal" on page 498</u> .	Go to step 7.	The problem is solved.
Does the problem remain?		

Action	Yes	Νο
Step 7 Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (narrow media) late-arriving jam service check

Action	Yes	No
Step 1 Check the fuser for damage and life expiration.	Go to step 2.	Go to step 3.
Is the fuser damaged or has it reached end of life?		
Step 2 Replace the fuser. See <u>"Fuser removal" on page 498</u> .	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Remove obstructions from the fuser.	Go to step 4.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>b Find the sensor (Narrow media).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 8.	Go to step 5.
Step 5	Go to step 8.	Go to step 6.
<ul> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the cable J60 on the controller board for proper connection.</li> </ul>		
Is the cable properly connected?		
<b>Step 6</b> Reseat the cable, and then perform a print test.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Replace the fuser. See <u>"Fuser removal" on page 498</u> .	Go to step 8.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 8 Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### 230 paper jam messages

Error code	Description	Action
230.03	Paper fed from the MPF never reached the sensor (duplex path).	See <u>"Sensor (duplex path) late-arriving jam</u> service check" on page 126.
230.05	Paper fed from the MPF never cleared the sensor (duplex path).	See <u>"Sensor (duplex path) late-leaving jam</u> service check" on page 128.
230.12	Paper fed from tray 1 was detected earlier than expected at the sensor (duplex path).	See <u>"Sensor (duplex path) early-arriving jam</u> service check" on page 125.
230.13	Paper fed from tray 1 never reached the sensor (duplex path).	See <u>"Sensor (duplex path) late-arriving jam</u> service check" on page 126.
230.14	Paper fed from tray 1 cleared the sensor (duplex path) earlier than expected.	See <u>"Sensor (duplex path) early-leaving jam</u> service check" on page 128.
230.15	Paper fed from tray 1 never cleared the sensor (duplex path).	See <u>"Sensor (duplex path) late-leaving jam</u> service check" on page 128.
230.22	Paper fed from tray 2 was detected earlier than expected at the sensor (duplex path).	See <u>"Sensor (duplex path) early-arriving jam</u> service check" on page 125.
230.23	Paper fed from tray 2 never reached the sensor (duplex path).	See <u>"Sensor (duplex path) late-arriving jam</u> service check" on page 126.
230.24	Paper fed from tray 2 cleared the sensor (duplex path) earlier than expected.	See <u>"Sensor (duplex path) early-leaving jam</u> service check" on page 128.
230.25	Paper fed from tray 2 never cleared the sensor (duplex path).	See <u>"Sensor (duplex path) late-leaving jam</u> service check" on page 128.
230.32	Paper fed from tray 3 was detected earlier than expected at the sensor (duplex path).	See <u>"Sensor (duplex path) early-arriving jam</u> service check" on page 125.
230.33	Paper fed from tray 3 never reached the sensor (duplex path).	See <u>"Sensor (duplex path) late-arriving jam</u> service check" on page 126.
230.34	Paper fed from tray 3 cleared the sensor (duplex path) earlier than expected.	See <u>"Sensor (duplex path) early-leaving jam</u> service check" on page 128.
230.35	Paper fed from tray 3 never cleared the sensor (duplex path).	See <u>"Sensor (duplex path) late-leaving jam</u> service check" on page 128.
230.42	Paper fed from tray 4 was detected earlier than expected at the sensor (duplex path).	See <u>"Sensor (duplex path) early-arriving jam</u> service check" on page 125.
230.43	Paper fed from tray 4 never reached the sensor (duplex path).	See <u>"Sensor (duplex path) late-arriving jam</u> service check" on page 126.

Error code	Description	Action
230.44	Paper fed from tray 4 cleared the sensor (duplex path) earlier than expected.	See <u>"Sensor (duplex path) early-leaving jam</u> service check" on page 128.
230.45	Paper fed from tray 4 never cleared the sensor (duplex path).	See <u>"Sensor (duplex path) late-leaving jam</u> service check" on page 128.
230.52	Paper fed from tray 5 was detected earlier than expected at the sensor (duplex path).	See <u>"Sensor (duplex path) early-arriving jam</u> service check" on page 125.
230.53	Paper fed from tray 5 never reached the sensor (duplex path).	See <u>"Sensor (duplex path) late-arriving jam</u> service check" on page 126.
230.54	Paper fed from tray 5 cleared the sensor (duplex path) earlier than expected.	See <u>"Sensor (duplex path) early-leaving jam</u> service check" on page 128.
230.55	Paper fed from tray 5 never cleared the sensor (duplex path).	See <u>"Sensor (duplex path) late-leaving jam</u> service check" on page 128.
230.91	Paper remains detected at the sensor (duplex path) after the printer is turned on.	See <u>"Sensor (duplex path) static jam service</u> <u>check" on page 130</u> .

### Sensor (duplex path) early-arriving jam service check

Action	Yes	No
<ul><li>Step 1</li><li>Check the duplex paper path for jammed paper and obstructions.</li><li>Note: Make sure that all paper fragments are removed.</li></ul>	Go to step 3.	Go to step 2.
Is the duplex paper path free of jammed paper and obstructions?		
<b>Step 2</b> Remove the jammed paper and obstructions.	Go to step 3.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 3 <ul> <li>a Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal"</u> on page 483.</li> <li>b Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>c Find the sensor (Duplex path).</li> </ul> </li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 6.	Go to step 4.
<ul> <li>Step 4</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the sensor cable J27 on the controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 6.	Go to step 5.

Action	Yes	No
Step 5 Reseat the cable.	Go to step 6.	The problem is solved.
Does the problem remain?		
Step 6 Replace the sensor. See <u>"Sensor (duplex path) with cover</u> <u>removal" on page 512</u> .	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Sensor (duplex path) late-arriving jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the fuser access area on the rear door for jammed paper and obstructions.		
Note: Make sure that all paper fragments are removed.		
Is the fuser access area free of jammed paper and obstructions?		
Step 2	Go to step 3.	The problem is
Remove the jammed paper and obstructions.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the duplex path area for jammed paper and obstructions.		
Note: Make sure that all paper fragments are removed.		
Is the duplex path area free of jammed paper and obstructions?		
Step 4	Go to step 5.	The problem is
Remove the jammed paper and obstructions.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 5 <ul> <li>a Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal"</u> on page 483.</li> <li>b Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>c Find the sensor (Duplex path).</li> </ul> </li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 9.	Go to step 6.
<ul> <li>Step 6</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the sensor cable J27 on the controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 8.	Go to step 7.
Step 7 Reseat the cable. Does the problem remain?	Go to step 8.	The problem is solved.
Step 8 Replace the sensor. See <u>"Sensor (duplex path) with cover</u> <u>removal" on page 512</u> . Does the problem remain?	Go to step 9.	The problem is solved.
<ul> <li>Step 9</li> <li>a Remove the rear door. See <u>"Rear door removal" on page 493</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Motor tests</li> <li>c Select the motor (Duplex), and then touch Start.</li> <li>Does the motor run?</li> </ul>	Go to step 12.	Go to step 10.
<b>Step 10</b> Reseat the motor cable J27 on the controller board. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11 Replace the motor. See <u>"Motor (duplex) removal" on page 497</u> . Does the problem remain?	Go to step 12.	The problem is solved.

Action	Yes	No
Step 12 Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Sensor (duplex path) early-leaving jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check if paper is properly loaded in each tray.		
Is paper properly loaded in each tray?		
Step 4	Go to step 5.	The problem is
Remove the paper, and then properly load it to the tray.		solved.
Does the problem remain?		
Step 5	Contact the next	The problem is
Perform a print test.	level of support.	solved.
Does the problem remain?		

### Sensor (duplex path) late-leaving jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the duplex path area for jammed paper and obstructions.		
Note: Make sure that all paper fragments are removed.		
Is the duplex path area free of jammed paper and obstructions?		
Step 2	Go to step 3.	The problem is
Remove the jammed paper and obstructions.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 3 <ul> <li>a Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal"</u> on page 483.</li> <li>b Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>c Find the sensor (Duplex path).</li> </ul> </li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 7.	Go to step 4.
<ul> <li>Step 4</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the sensor cable J27 on the controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 6.	Go to step 5.
Step 5 Reseat the cable. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Replace the sensor. See <u>"Sensor (duplex path) with cover</u> <u>removal" on page 512</u> . Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 Check the upper redrive for damage. Is the upper redrive free of damage?	Go to step 9.	Go to step 8.
Step 8 Replace the upper redrive. See <u>"Upper redrive removal" on</u> page 499. Does the problem remain?	Go to step 9.	The problem is solved.
<ul> <li>Step 9 <ul> <li>a Remove the rear door. See <u>"Rear door removal" on page 493</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Motor tests</li> <li>c Select the motor (Duplex), and then touch Start.</li> </ul> </li> <li>Does the motor run?</li> </ul>	Go to step 12.	Go to step 10.

Action	Yes	No
<b>Step 10</b> Reseat the motor cable J27 on the controller board.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Replace the motor. See <u>"Motor (duplex) removal" on page 497</u> . Does the problem remain?	Go to step 12.	The problem is solved.
<b>Step 12</b> Perform a print test. Does the problem remain?	Contact the next level of support.	The problem is solved.

### Sensor (duplex path) static jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the duplex path area for jammed paper and obstructions.		
Note: Make sure that all paper fragments are removed.		
Is the duplex path area free of jammed paper and obstructions?		
Step 2	Go to step 3.	The problem is
Remove the jammed paper and obstructions.		solved.
Does the problem remain?		
Step 3	Go to step 7.	Go to step 4.
a Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal"</u> on page 483.		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Sensor tests		
c Find the sensor (Duplex path).		
Does the sensor status change while toggling the sensor?		
Step 4	Go to step 6.	Go to step 5.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<b>b</b> Check the sensor cable J27 on the controller board for proper connection.		
Is the cable properly connected?		

Action	Yes	No
Step 5 Reseat the cable.	Go to step 6.	The problem is solved.
Does the problem remain?		
Step 6 Replace the sensor. See <u>"Sensor (duplex path) with cover</u> <u>removal" on page 512</u> .	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### 232 paper jammessages

Error code	Description	Action
232.03	During a duplex print job, paper fed from the MPF never reached the sensor (input).	See <u>"Sensor (input) late-arriving jam (during</u> duplex print) service check" on page 132.
232.04	During a duplex print job, paper fed from the MPF cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam (during</u> duplex print) service check" on page 133.
232.05	During a duplex print job, paper fed from the MPF never cleared the sensor (input).	See <u>"Sensor (input) late-leaving jam (during</u> duplex print) service check" on page 134.
232.13	During a duplex print job, paper fed from tray 1 never reached the sensor (input).	See <u>"Sensor (input) late-arriving jam (during</u> duplex print) service check" on page 132.
232.14	During a duplex print job, paper fed from tray 1 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam (during</u> duplex print) service check" on page 133.
232.15	During a duplex print job, paper fed from tray 1 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving jam (during</u> duplex print) service check" on page 134.
232.23	During a duplex print job, paper fed from tray 2 never reached the sensor (input).	See <u>"Sensor (input) late-arriving jam (during</u> duplex print) service check" on page 132.
232.24	During a duplex print job, paper fed from tray 2 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam (during</u> duplex print) service check" on page 133.
232.25	During a duplex print job, paper fed from tray 2 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving jam (during</u> duplex print) service check" on page 134.
232.33	During a duplex print job, paper fed from tray 3 never reached the sensor (input).	See <u>"Sensor (input) late-arriving jam (during</u> duplex print) service check" on page 132.
232.34	During a duplex print job, paper fed from tray 3 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam (during</u> duplex print) service check" on page 133.

Error code	Description	Action
232.35	During a duplex print job, paper fed from tray 3 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving jam (during</u> duplex print) service check" on page 134.
232.43	During a duplex print job, paper fed from tray 4 never reached the sensor (input).	See <u>"Sensor (input) late-arriving jam (during</u> duplex print) service check" on page 132.
232.44	During a duplex print job, paper fed from tray 4 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam (during</u> duplex print) service check" on page 133.
232.45	During a duplex print job, paper fed from tray 4 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving jam (during</u> duplex print) service check" on page 134.
232.53	During a duplex print job, paper fed from tray 1 never reached the sensor (input).	See <u>"Sensor (input) late-arriving jam (during</u> duplex print) service check" on page 132.
232.54	During a duplex print job, paper fed from tray 1 cleared the sensor (input) earlier than expected.	See <u>"Sensor (input) early-leaving jam (during</u> duplex print) service check" on page 133.
232.55	During a duplex print job, paper fed from tray 1 never cleared the sensor (input).	See <u>"Sensor (input) late-leaving jam (during</u> duplex print) service check" on page 134.

### Sensor (input) late-arriving jam (during duplex print) service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the duplex path area for jammed paper and obstructions.		
Note: Make sure that all paper fragments are removed.		
Is the duplex path area free of jammed paper and obstructions?		
Step 2	Go to step 3.	The problem is
Remove the jammed paper and obstructions.		solved.
Does the problem remain?		
Step 3	Go to step 7.	Go to step 4.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Sensor tests		
<b>b</b> Find the sensor (Input).		
Does the sensor status change while toggling the sensor?		
Step 4	Go to step 6.	Go to step 5.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<b>b</b> Check the sensor cable J27 on the controller board for proper connection.		
Is the cable properly connected?		

Action	Yes	No
Step 5	Go to step 6.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 6	Go to step 7.	The problem is
Replace the sensor. See <u>"Sensor (input) removal" on page 487</u> .		solved.
Does the problem remain?		
Step 7	Go to step 10.	Go to step 8.
a Remove the rear door. See <u>"Rear door removal" on page</u> <u>493</u> .		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Motor tests		
<b>c</b> Select the motor (Duplex), and then touch <b>Start</b> .		
Does the motor run?		
Step 8	Go to step 9.	The problem is
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		solved.
<b>b</b> Reseat the motor cable J27 on the controller board.		
Does the problem remain?		
Step 9	Go to step 10.	The problem is
Replace the motor. See <u>"Motor (duplex) removal" on page 497</u> .		solved.
Does the problem remain?		
Step 10	Contact the next	The problem is
Perform a print test.	level of support.	solved.
Does the problem remain?		

## Sensor (input) early-leaving jam (during duplex print) service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the duplex path area for jammed paper and obstructions.		
Note: Make sure that all paper fragments are removed.		
Is the duplex path area free of jammed paper and obstructions?		
Step 2	Go to step 3.	The problem is
Remove the jammed paper and obstructions.		solved.
Does the problem remain?		

#### Diagnostics and troubleshooting

Action	Yes	No
Step 3	Go to step 5.	Go to step 4.
Check the sensor (input) area for paper fragments and partially fed paper.		
Is the area free of paper fragments and partially fed paper?		
Step 4	Go to step 5.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 5	Contact the next	The problem is
Perform a print test.	level of support.	solved.
Does the problem remain?		

### Sensor (input) late-leaving jam (during duplex print) service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the duplex path area for jammed paper and obstructions.		
Note: Make sure that all paper fragments are removed.		
Is the duplex path area free of jammed paper and obstructions?		
Step 2	Go to step 3.	The problem is
Remove the jammed paper and obstructions.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the sensor (input) area for paper fragments and partially fed paper.		
Is the area free of paper fragments and partially fed paper?		
Step 4	Go to step 5.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 5	Go to step 8.	Go to step 6.
a Remove the left cover. See <u>"Left cover removal" on page</u> <u>444</u> .		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Motor tests		
<b>c</b> Select the motor (Imaging unit), and then touch <b>Start</b> .		
Does the motor run?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Reseat the motor cable J71 on the controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the motor. See <u>"Main motor drive removal" on page</u> <u>451</u> .	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### 240 paper jam messages

Error code	Description	Action
240.06	Paper fed from the MPF was picked but it never reached the sensor (input).	See <u>"MPF pick jam service check" on page</u> <u>135</u> .
240.82	The motor (MPF) has stalled.	See <u>"MPF drive control failure service check" on</u>
240.84	The motor (MPF) has stalled.	<u>page 138</u> .

### MPF pick jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer supports the paper loaded.		
<b>Note:</b> For a complete list of supported paper, see the printer <i>User's Guide</i> .		
Is the paper supported?		
Step 2	Go to step 3.	The problem is
Remove the paper, and then load a supported one.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 3</b> Check if the paper size matches the size set on the MPF tray guides.	Go to step 7.	Go to step 4.
Does the paper size match the size set on the tray?		
<b>Step 4</b> Change the paper size or adjust the size setting in the tray.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check if the MPF tray is overfilled.	Go to step 6.	Go to step 5.
Is the tray overfilled?		
<b>Step 6</b> Remove the excess paper from the tray.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the MPF tray for crumpled, damaged, or deformed paper.	Go to step 9.	Go to step 8.
Are the sheets of paper on the tray still in good condition?		
Step 8 Replace the affected sheets.	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Check the MPF tray pick roller for proper installation.	Go to step 11.	Go to step 10.
Is the pick roller properly installed?		
<b>Step 10</b> Reinstall the pick roller.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Check the MPF pick roller for excess wear, damage, and contamination.	Go to step 13.	Go to step 12.
Is the pick roller free of excess wear, damage, and contamination?		
Step 12 Replace the pick roller. See <u>"MPF pick roller removal" on</u> page 488.	Go to step 13.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 13</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>b Find the sensor (MPF media present).</li> </ul>	Go to step 18.	Go to step 14.
<ul> <li>Does the sensor status change while toggling the sensor?</li> <li>Step 14 <ul> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the sensor cable J73 on the controller board for proper connection.</li> </ul> </li> <li>Is the cable properly connected?</li> </ul>	Go to step 16.	Go to step 15.
Step 15 Reseat the cable. Does the problem remain?	Go to step 16.	The problem is solved.
Step 16 Replace the duplex/MPF tray. See <u>"Duplex/MPF tray removal" on</u> page 483.	Go to step 17.	The problem is solved.
Does the problem remain? Step 17 Replace the sensor (MPF paper present). Does the problem remain?	Go to step 18.	The problem is solved.
<ul> <li>Step 18</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>b Find the sensor (Input).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 22.	Go to step 19.
<ul> <li>Step 19</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the sensor cable J27 on the controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 21.	Go to step 20.
Step 20 Reseat the cable. Does the problem remain?	Go to step 21.	The problem is solved.

Action	Yes	No
Step 21	Go to step 22.	The problem is
Replace the sensor. See <u>"Sensor (input) removal" on page 487</u> .		solved.
Does the problem remain?		
Step 22	Go to step 25.	Go to step 23.
a Remove the left cover. See <u>"Left cover removal" on page</u> <u>444</u> .		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Motor tests		
<b>c</b> Select the motor (MPF pick), and then touch <b>Start</b> .		
Does the motor run?		
Step 23	Go to step 24.	The problem is
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		solved.
<b>b</b> Reseat the motor cable J71 on the controller board.		
Does the problem remain?		
Step 24	Go to step 25.	The problem is
Replace the motor. See <u>"Motor (MPF) removal" on page 454</u> .		solved.
Does the problem remain?		
Step 25	Contact the next	The problem is
Perform a print test.	level of support.	solved.
Does the problem remain?		

#### MPF drive control failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the paper size matches the size set on the MPF tray guides.		
Does the paper size match the size set on the tray?		
Step 2	Go to step 3.	The problem is
Change the paper size or adjust the size setting in the tray.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check if the MPF tray is overfilled.		
Is the tray overfilled?		

Action	Yes	No
<b>Step 4</b> Remove the excess paper from the tray.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the MPF tray for crumpled, damaged, or deformed paper.	Go to step 7.	Go to step 6.
Are the sheets of paper on the tray still in good condition?		
Step 6 Replace the affected sheets.	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>a Remove the left cover. See <u>"Left cover removal" on page 444</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Motor tests</li> <li>c Select the motor (MPF pick/aligner), and then touch Start.</li> </ul>	Go to step 10.	Go to step 8.
Step 8	Go to step 9.	The problem is
<ul> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Reseat the motor cable J71 on the controller board.</li> <li>c Reseat the motor cable.</li> <li>d Restart the printer.</li> </ul>	00 to step 9.	solved.
Does the problem remain?		
<b>Step 9</b> Replace the motor (MPF). See <u>"Motor (MPF) removal" on</u> <u>page 454</u> . Does the problem remain?	Go to step 10.	The problem is solved.
Step 10	Contact the next	The problem is
Restart the printer.	level of support.	solved.
Does the problem remain?		

#### 241 paper jam messages

Error code	Description	Action
241.16	Paper fed from tray 1 was picked but it never reached the sensor (input).	See <u>"Tray 1 pick jam service check" on</u> page 140.
241.23	Paper fed from tray 2 never reached the sensor (tray 1 pass-through).	See <u>"Sensor (tray 1 pass-through) late-arriving</u> jam service check" on page 145.
241.25	Paper fed from tray 2 cleared the sensor (tray 1 pass-through) later than expected.	
241.33	Paper fed from tray 3 never reached the sensor (tray 1 pass-through).	
241.35	Paper fed from tray 3 cleared the sensor (tray 1 pass-through) later than expected.	See <u>"Sensor (tray 1 pass-through) late-leaving or</u> <u>did-not-clear jam service check" on page 149</u> .
241.43	Paper fed from tray 4 never reached the sensor (tray 1 pass-through).	See <u>"Sensor (tray 1 pass-through) late-arriving</u> jam service check" on page 145.
241.45	Paper fed from tray 4 cleared the sensor (tray 1 pass-through) later than expected.	See <u>"Sensor (tray 1 pass-through) late-leaving or</u> did-not-clear jam service check" on page 149.
241.53	Paper fed from tray 5 never reached the sensor (tray 1 pass-through).	See <u>"Sensor (tray 1 pass-through) late-arriving</u> jam service check" on page 145.
241.55	Paper fed from tray 5 cleared the sensor (tray 1 pass-through) later than expected.	See <u>"Sensor (tray 1 pass-through) late-leaving or</u> did-not-clear jam service check" on page 149.
241.82	The motor (tray 1 pick) has stalled.	See <u>"Tray 1 paper feeder control failure service</u>
241.84	The motor (tray 1 pick) has stalled.	check" on page 143.
241.91	Paper remains detected at the sensor (tray 1 pass-through) after the printer is turned on.	See <u>"Sensor (tray 1 pass-through) static jam</u> service check" on page 144.

### Tray 1 pick jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Pull out tray 1, and then check if the paper size matches the size set on the tray guides.		
Does the paper size match the size set on the tray?		
<b>Step 2</b> Change the paper size or adjust the size setting in the tray.	Go to step 3.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 3	Go to step 4.	Go to step 5.
Check if tray 1 is overfilled.		
Is the tray overfilled?		
Step 4	Go to step 5.	The problem is
Remove the excess paper from the tray.		solved.
Does the problem remain?		
Step 5	Go to step 7.	Go to step 6.
Check tray 1 for crumpled, damaged, or deformed paper.		
Are the sheets of paper on the tray still in good condition?		
Step 6	Go to step 7.	The problem is
Replace the affected sheets.		solved.
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
Check the tray 1 pick roller for proper installation.		
Note: Make sure that the pick roller is fully pressed to its feeder		
shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed?		
Step 8	Go to step 9.	The problem is
Reinstall the pick roller.		solved.
Does the problem remain?		
Step 9	Go to step 11.	Go to step 10.
Check the tray 1 pick roller and separator pad for excess wear, damage, and contamination.		
Is the pick roller and separator pad free of excess wear, damage, and contamination?		
Step 10	Go to step 11.	The problem is
Replace the affected pick roller or separator pad. See <u>"Pick roller</u> removal" on page 511.		solved.
Does the problem remain?		
Step 11	Go to step 13.	Go to step 12.
Check the tray 1 tray insert for damage.		
Is the tray insert free of damage?		

Action	Yes	No
Step 12	Go to step 13.	The problem is
Replace the tray insert.		solved.
Does the problem remain?		
Step 13	Go to step 15.	Go to step 14.
Check the aligner for obstructions.		
Is the aligner free of obstructions?		
Step 14	Go to step 15.	The problem is
Remove the obstructions.		solved.
Does the problem remain?		
Step 15	Go to step 19.	Go to step 16.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Sensor tests		
<b>b</b> Find the sensor (Input).		
Does the sensor status change while toggling the sensor?		
Step 16	Go to step 18.	Go to step 17.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<b>b</b> Check the sensor cable J27 on the controller board for proper connection.		
Is the cable properly connected?		
Step 17	Go to step 18.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 18	Go to step 19.	The problem is
Replace the sensor. See <u>"Sensor (input) removal" on page 487</u> .		solved.
Does the problem remain?		
Step 19	Go to step 22.	Go to step 20.
<ul> <li>a Remove the left cover. See <u>"Left cover removal" on page</u></li> <li><u>444</u>.</li> </ul>		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Motor tests		
<b>c</b> Select the motor (Pick (tray 1)), and then touch <b>Start</b> .		
Does the motor run?		

Action	Yes	No
<ul> <li>Step 20</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Reseat the motor cable J73 on the controller board.</li> <li>c Reseat the paper feeder cable.</li> <li>Does the problem remain?</li> </ul>	Go to step 21.	The problem is solved.
Step 21Replace the paper feeder. See <u>"Paper feeder removal" on page 457</u> .Does the problem remain?	Go to step 22.	The problem is solved.
<b>Step 22</b> Perform a print test. Does the problem remain?	Contact the next level of support.	The problem is solved.

### Tray 1 paper feeder control failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Pull out tray 1, and then check if the paper size matches the size set on the tray guides.		
Does the paper size match the size set on the tray?		
Step 2	Go to step 3.	The problem is
Change the paper size or adjust the size setting in the tray.		solved.
Does the problem remain?		
Step 3	Go to step 4.	Go to step 5.
Check if tray 1 is overfilled.		
Is the tray overfilled?		
Step 4	Go to step 5.	The problem is
Remove the excess paper from the tray.		solved.
Does the problem remain?		
Step 5	Go to step 7.	Go to step 6.
Check tray 1 for crumpled, damaged, or deformed paper.		
Are the sheets of paper on the tray still in good condition?		

Action	Yes	No
Step 6 Replace the affected sheets.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7	Go to step 10.	Go to step 8.
a Remove the left cover. See <u>"Left cover removal" on page</u> <u>444</u> .		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Motor tests		
<b>c</b> Select the motor (Pick (tray 1)), and then touch <b>Start</b> .		
Does the motor run?		
Step 8	Go to step 9.	The problem is
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		solved.
<b>b</b> Reseat the motor cable J73 on the controller board.		
c Reseat the paper feeder cable.		
<b>d</b> Restart the printer.		
Does the problem remain?		
Step 9	Go to step 10.	The problem is
Replace the paper feeder. See <u>"Paper feeder removal" on</u> page 457.		solved.
Does the problem remain?		
Step 10	Contact the next	The problem is
Restart the printer.	level of support.	solved.
Does the problem remain?		

## Sensor (tray 1 pass-through) static jam service check

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

Action	Yes	No
<ul> <li>Step 3</li> <li>a Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal"</u> on page 483.</li> <li>b Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>c Find the sensor (Tray 1 pass-through).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 7.	Go to step 4.
<ul> <li>Step 4</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the sensor cable J73 on the controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 6.	Go to step 5.
Step 5 Reseat the cable. Does the problem remain?	Go to step 6.	The problem is solved.
Step 6 Replace the sensor. See <u>"Sensor (tray 1 pass-through) removal"</u> on page 513. Does the problem remain?	Go to step 7.	The problem is solved.
<b>Step 7</b> Perform a print test. Does the problem remain?	Contact the next level of support.	The problem is solved.

### Sensor (tray 1 pass-through) late-arriving jam service check

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

Action	Yes	No
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Deep the problem remain?		
Does the problem remain?		
Step 4	Go to step 5.	The problem is solved.
Enter the Diagnostics menu, and then navigate to: Input tray quick print >select source tray > Single		
Does the problem remain?		
Step 5	Go to step 9.	Go to step 6.
a Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal"</u> on page 483.		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Sensor tests		
<b>c</b> Find the sensor (Tray 1 pass-through).		
Does the sensor status change while toggling the sensor?		
Step 6	Go to step 8.	Go to step 7.
<b>a</b> Remove the right cover. See <u>"Right cover removal" on</u>		
page 461.		
<b>b</b> Check the sensor cable J73 on the controller board for proper connection.		
Is the cable properly connected?		
Step 7	Go to step 8.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 8	Go to step 9.	The problem is solved.
Replace the sensor. See <u>"Sensor (tray 1 pass-through) removal"</u> on page 513.		solveu.
Does the problem remain?		
Step 9	Go to step 11.	Go to step 10.
Check the source tray pick roller for improper installation, contamination, and damage.		
<b>Note:</b> Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed and free of contamination and damage?		

Action	Yes	No
Step 10	Go to step 11.	The problem is
Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590.		solved.
Does the problem remain?		
Step 11	Go to step 13.	Go to step 12.
Remove the source tray insert, and then check if the following components are functional and free of damage:		
Paper guides		
Lift plate		
<b>Note:</b> Move the components or turn gears to check for proper mechanisms.		
Are the tray insert and its components functional and free of damage?		
Step 12	Go to step 13.	The problem is
Replace the tray insert.		solved.
Does the problem remain?		
Step 13	Go to step 15.	Go to step 14.
Check the separator pad for improper installation, contamination, wear, and damage.		
Is the separator pad properly installed and free of contamination, wear, and damage?		
Step 14	Go to step 15.	The problem is
Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> removal" on page 510.		solved.
Does the problem remain?		
Step 15	Go to step 18.	Go to step 16.
a Remove the left cover. See <u>"Left cover removal" on page</u> <u>444</u> .		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Motor tests		
<b>c</b> Select the motor (MPF pick/aligner), and then touch <b>Start</b> .		
Does the motor run?		
Step 16	Go to step 17.	The problem is
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		solved.
<b>b</b> Reseat the motor cable J71 on the controller board.		
Does the problem remain?		

Action	Yes	No
<b>Step 17</b> Replace the motor. See <u>"Motor (MPF) removal" on page 454</u> . Does the problem remain?	Go to step 18.	The problem is solved.
Step 18	Go to step 21.	Go to step 19.
<ul> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page</u> 583.</li> </ul>	Go to step 21.	G0 t0 step 19.
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Motor tests		
<b>c</b> Select the motor (Pick (tray x)), and then touch <b>Start</b> .		
<b>Note:</b> For tray x, choose the tray number of the affected source tray.		
Does the motor run?		
Step 19	Go to step 20.	The problem is
Reseat the cable on the motor and on the optional tray controller board.		solved.
Does the problem remain?		
Step 20	Go to step 21.	The problem is
Replace the source tray paper feeder. See <u>"550-sheet</u> tray paper feeder removal" on page 591.		solved.
Does the problem remain?		
Step 21	Go to step 22.	The problem is
Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 22	Contact the next	Go to step 23.
Check the source tray controller board and its connector pins for damage.	level of support.	
Are the tray controller board and its connectors free of damage?		
Step 23	Contact the next	The problem is
Replace the controller board. See <u>"550-sheet tray</u>	level of support.	solved.
<u>controller board removal" on page 593</u> .		
Does the problem remain?		

### Sensor (tray 1 pass-through) late-leaving or did-not-clear jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Pull out all the source trays, and then check if the paper size matches the size set on the tray guides.		
Does the paper size match the size set on the tray?		
Step 2	Go to step 3.	The problem is
Change the paper size or adjust the size setting in the tray.		solved.
Does the problem remain?		
Step 3	Go to step 4.	Go to step 5.
Check if the tray is overfilled.		
Is the tray overfilled?		
Step 4	Go to step 5.	The problem is
Remove the excess paper from the tray.		solved.
Does the problem remain?		
Step 5	Go to step 7.	Go to step 6.
Check the tray for crumpled, damaged, or deformed paper.		
Are the sheets of paper on the tray still in good condition?		
Step 6	Go to step 7.	The problem is
Replace the affected sheets.		solved.
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
Check the pick roller of the source tray for dirt, excess wear, and contamination.		
Note: Check also the gears for debris and toner.		
Are the pick roller components free of dirt, excess wear, and contamination?		
Step 8	Go to step 9.	The problem is
Clean or replace the pick roller.		solved.
Does the problem remain?		
Step 9	Go to step 11.	Go to step 10.
Check the aligner rollers for obstructions.		
Are the aligner rollers free of obstructions?		

Action	Yes	No
Step 10	Go to step 11.	The problem is
Remove the obstructions.		solved.
Does the problem remain?		
Step 11	Go to step 15.	Go to step 12.
a Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal"</u> on page 483.		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Printer diagnostics and adjustments > Sensor tests		
<b>c</b> Find the sensor (Tray 1 pass-through).		
Does the sensor status change while toggling the sensor?		
Step 12	Go to step 14.	Go to step 13.
a Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<b>b</b> Check the sensor cable J73 on the controller board for proper connection.		
Is the cable properly connected?		
Step 13	Go to step 14.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 14	Go to step 15.	The problem is
Replace the sensor. See <u>"Sensor (tray 1 pass-through) removal"</u> on page 513.		solved.
Does the problem remain?		
Step 15	Go to step 17.	Go to step 16.
Perform a print test on each tray, and then check if the paper is properly picked and transported out of the source tray by the paper feeder.		
Was the paper properly transported by the paper feeder?		
Step 16	Go to step 17.	The problem is
Replace the affected paper feeder.		solved.
Does the problem remain?		
Step 17	Go to step 19.	Go to step 18.
Perform a print test, and then check if the paper is properly transported by the MPF motor drive to the sensor (tray 1 pass-through).		
Was the paper properly transported by the MPF motor drive?		
	4	

Action	Yes	No
Step 18 Replace the motor (MPF). See <u>"Motor (MPF) removal" on</u> page 454.	Go to step 19.	The problem is solved.
Does the problem remain?		
Step 19 Perform a print test.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### 242 paper jam messages

Error code	Description	Action
242.26	Paper fed from tray 2 was picked but it never reached the sensor (tray 1 pass-through).	See <u>"Tray 2 pick jam service check" on</u> page 155.
242.31	Paper remains detected at the sensor (tray 2 pass-through) although the printer is idle. Tray 3 is the paper source.	See <u>"Sensor (tray 2 pass-through) static jam</u> <u>service check" on page 153</u> .
242.33	Paper fed from tray 3 never reached the sensor (tray 2 pass-through).	See <u>"Sensor (tray 2 pass-through) late-arriving</u> or late-leaving jam service check" on page 159.
242.35	Paper fed from tray 3 cleared the sensor (tray 2 pass-through) later than expected.	
242.37	Paper fed from tray 3 never cleared the sensor (tray 2 pass-through).	
242.41	Paper remains detected at the sensor (tray 2 pass-through) although the printer is idle. Tray 4 is the paper source.	See <u>"Sensor (tray 2 pass-through) static jam</u> service check" on page 153.
242.43	Paper fed from tray 4 never reached the sensor (tray 2 pass-through).	See <u>"Sensor (tray 2 pass-through) late-arriving</u> or late-leaving jam service check" on page 159.
242.45	Paper fed from tray 4 cleared the sensor (tray 2 pass-through) later than expected.	
242.47	Paper fed from tray 4 never cleared the sensor (tray 2 pass-through).	
242.51	Paper remains detected at the sensor (tray 2 pass-through) although the printer is idle. Tray 5 is the paper source.	See <u>"Sensor (tray 2 pass-through) static jam</u> service check" on page 153.

Error code	Description	Action
242.53	Paper fed from tray 5 never reached the sensor (tray 2 pass-through).	See <u>"Sensor (tray 2 pass-through) late-arriving</u> or late-leaving jam service check" on page 159.
242.55	Paper fed from tray 5 cleared the sensor (tray 2 pass-through) later than expected.	
242.57	Paper fed from tray 5 never cleared the sensor (tray 2 pass-through).	
242.70	Motor (550-sheettray2transport)doesnot turnon.	See <u>"550-sheet tray-transport drive</u> jam <u>service check" onpage 170.</u>
242.70	Motor (2100-sheet tray 2 elevator) does not turn on.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .
242.71	Motor (550-sheet tray 2 transport) does not turn off.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170
242.71	Motor (2100-sheet tray 2 elevator) does not turn off.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .
242.72	Motor (550-sheet tray 2 transport) speed did not ramp up to the required level.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170
242.72	Motor (2100-sheet tray 2 elevator) speed did not ramp up to the required level.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .
242.73	Motor (550-sheet tray 2 transport) stalled.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170.
242.73	Motor (2100-sheet tray 2 elevator) stalled.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .
242.74	Motor (550-sheet tray 2 transport) ran too slow.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170.
242.74	Motor (2100-sheet tray 2 elevator) ran too slow.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .
242.75	Motor (550-sheet tray 2 transport) ran too fast.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170.
242.75	Motor (2100-sheet tray 2 elevator) ran too fast.	See <u>"2100-sheet tray elevator drive jam service</u> check" on page 172.
242.76	Motor (550-sheet tray 2 transport) ran too long.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170
242.76	Motor (2100-sheet tray 2 elevator) ran too long.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .

Error code	Description	Action
242.80	Motor (tray 2 pick/lift) does not turn on.	See <u>"Optional tray pick drive failure service</u>
242.81	Motor (tray 2 pick/lift) does not turn off.	check" on page 343.
242.82	Motor (tray 2 pick/lift) speed did not ramp up to the required level.	
242.83	Motor (tray 2 pick/lift) stalled.	
242.84	Motor (tray 2 pick/lift) ran too slow.	
242.85	Motor (tray 2 pick/lift) ran too fast.	
242.86	Motor (tray 2 pick/lift) ran too long.	
242.91	Paper remains detected at the sensor (tray 2 pass-through) after the printer is turned on.	See <u>"Sensor (tray 2 pass-through) static jam</u> service check" on page 153.
242.93	Paper never arrived at the sensor (tray 2 pass-through). Paper source is undetermined.	See <u>"Sensor (tray 2 pass-through) unknown</u> source late-arriving or late-leaving jam service
242.95	Paper cleared the sensor (tray 2 pass-through) later than expected. Paper source is undetermined.	check" on page 167.
242.96	Paper was picked but it never reached the sensor (tray 2 pass-through). Paper source is undetermined.	See <u>"Sensor (tray 2 pass-through) unknown</u> source pick jam service check" on page 162.
242.97	Paper never cleared the sensor (tray 2 pass-through). Paper source is undetermined.	See <u>"Sensor (tray 2 pass-through) unknown</u> source late-arriving or late-leaving jam service check" on page 167.

# Sensor (tray 2 pass-through) static jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 2)).</li> </ul>	Go to step 9.	Go to step 5.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 5</li> <li>a Remove the tray 2 left cover. See <u>"550 sheet tray</u> <u>left cover removal" on page 583</u>.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul>	Go to step 7.	Go to step 6.
Is the cable properly connected?		
Step 6 Reseat the cable.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the sensor. See <u>"Sensor(550 sheet tray</u> <u>pass-through) removal"on page 594.</u>	Go to step 8.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 8</li> <li>a Remove the source tray left cover. See <u>"550 -sheet</u> tray left cover removal" on page 583.</li> <li>b Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board.</li> </ul>	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	Go to step 10.
Are the tray controller board and its connectors free of damage?		
Step 10 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Tray 2 pick jam service check

Action	Yes	Νο
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
<b>Step 2</b> Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 2 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the source tray separator pad for improper installation, contamination, wear, and damage.	Go to step 7.	Go to step 6.
Is the separator pad properly installed and free of contamination, wear, and damage?		
Step 6 Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> removal" on page 510.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the source tray pick roller for improper installation, contamination, and damage.	Go to step 9.	Go to step 8.
<b>Note:</b> Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed and free of contamination and damage?		
Step 8 Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590.	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 9</li> <li>Remove the source tray insert, and then check if the following components are functional and free of damage: <ul> <li>Paper guides</li> <li>Lift plate</li> </ul> </li> <li>Note: Move the components or turn gears to check for proper mechanisms.</li> <li>Are the tray insert and its components functional and free of damage?</li> </ul>	Go to step 11.	Go to step 10.
Step 10 Replace the tray insert. Does the problem remain?	Go to step 11.	The problem is solved.
<ul> <li>Step 11</li> <li>a Enter the Diagnostics menu, and then navigate to: Printer diagnostics and adjustments &gt; Sensor tests</li> <li>b Find the sensor (Tray 1 pass-through).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 15.	Go to step 12.
<ul> <li>Step 12</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the sensor cable J73 on the controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 14.	Go to step 13.
Step 13 Reseat the cable. Does the problem remain?	Go to step 14.	The problem is solved.
Step 14 Replace the sensor. See <u>"Sensor (tray 1 pass-through) removal"</u> on page 513. Does the problem remain?	Go to step 15.	The problem is solved.
<ul> <li>Step 15</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pick (tray 2)).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 19.	Go to step 16.

Action	Yes	No
<ul> <li>Step 16         <ul> <li>a Remove the optional tray left cover. See <u>"550 -sheet tray</u></li> <li><u>left cover removal" on page 583</u>.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul> </li> </ul>	Go to step 18.	Go to step 17.
Is the cable properly connected?		
Step 17 Reseat the cable.	Go to step 18.	The problem is solved.
Does the problem remain?		
Step 18 Replace the sensor. See <u>"Sensor (550 -sheet tray pick)</u> removal" on page 594.	Go to step 19.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 19</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Media out (tray 2)).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 23.	Go to step 20.
<ul> <li>Step 20</li> <li>a Remove the optional tray left cover. See <u>"550 -sheet</u> <u>tray left cover removal" on page 583</u>.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 22.	Go to step 21.
Step 21 Reseat the cable.	Go to step 22.	The problem is solved.
Does the problem remain?		
Step 22 Replace the sensor. See <u>"Sensor (550 -sheet tay paper present)</u> removal" on page 596.	Go to step 23.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 23	Go to step 27.	Go to step 24.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Sensor tests		
<b>b</b> Find the sensor (Pick roller index (tray 2)).		
Does the sensor status change while toggling the sensor?		
Step 24	Go to step 26.	Go to step 25.
a Remove the optional tray left cover. See <u>"550 -sheet</u>	-	
<ul><li>tray left cover removal" on page 583.</li><li>b Check the sensor cable on the optional tray controller board</li></ul>		
for proper connection.		
Is the cable properly connected?		
Step 25	Go to step 26.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 26	Go to step 27.	The problem is
Replace the sensor. See <u>"Sensor (550 -sheet tray pick</u> roller index) removal" on page 595.		solved.
Does the problem remain?		
Step 27	Go to step 29.	Go to step 28.
Check if the source tray paper feeder and its actuators are functional, properly installed, and free of damage.		
Are the paper feeder and its components functional, properly installed, and free of damage?		
Step 28	Go to step 29.	The problem is
Reinstall or replace the paper feeder. See <u>"550 -sheet</u> tray		solved.
paper feeder removal" on page 591.		
Does the problem remain?		
Step 29	Go to step 30.	The problem is
a Remove the source tray left cover. See <u>"550 -sheet</u> tray left cover removal" on page 583.		solved.
<b>b</b> Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board.		
Does the problem remain?		

Action	Yes	No
<b>Step 30</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	Go to step 31.
Are the tray controller board and its connectors free of damage?		
Step 31 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Sensor (tray 2 pass-through) late-arriving or late-leaving jam service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print >select source tray > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 2)).</li> </ul>	Go to step 9.	Go to step 6.
Does the sensor status change while toggling the sensor?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Remove the optional tray left cover. See <u>"550 -sheet</u> <u>tray left cover removal" on page 583</u>.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul>	Go to step 8.	Go to step 7.
Is the cable properly connected?		
<b>Step 7</b> Reseat the cable.	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Replace the sensor. See <u>"Sensor (550 -sheet tray</u> pass-through) removal" on page 594.	Go to step 9.	The problem is solved.
Does the problem remain? Step 9	Go to step 11.	Go to step 10.
Check the source tray pick roller for improper installation, contamination, and damage.		
<b>Note:</b> Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed and free of contamination and damage?		
Step 10 Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11	Go to stop 12	Go to step 12.
Remove the source tray insert, and then check if the following components are functional and free of damage: • Paper guides • Lift plate Note: Move the components or turn gears to check for proper	Go to step 13.	
mechanisms. Are the tray insert and its components functional and free of		
damage?		
Step 12 Replace the tray insert.	Go to step 13.	The problem is solved.
Does the problem remain?		

Go to step 15. Go to step 15. Go to step 18.	Go to step 14. The problem is solved.
	solved.
	solved.
Go to step 18.	
Go to step 18.	
	Go to step 16.
Go to step 17.	The problem is solved.
Go to step 18.	The problem is solved.
Cotoston 21	Co to stop 10
	Go to step 19.
	Go to step 17.

Action	Yes	No
<b>Step 19</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 20.	The problem is solved.
Does the problem remain?		
Step 20 Replace the source tray paper feeder. See <u>"550 -sheet</u> tray paper feeder removal" on page 591.	Go to step 21.	The problem is solved.
Does the problem remain?		
<b>Step 21</b> Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 22.	The problem is solved.
Does the problem remain?		
Step 22 Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 23 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (tray 2 pass-through) unknown source pick jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Input tray quick print</li> <li>b Do feed tests from trays 2 to 5. Check if the same error occurs.</li> <li>Does the same problem remain?</li> </ul>	Go to step 5.	Perform the appropriate service check for the specific error.
Step 5	Go to step 7.	Go to step 6.
Check the affected source tray separator pad for improper installation, contamination, wear, and damage.		Go to step 0.
Is the separator pad properly installed and free of contamination, wear, and damage?		
Step 6 Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> <u>removal" on page 510</u> .	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>Check the affected source tray pick roller for improper installation, contamination, and damage.</li> <li>Note: Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.</li> </ul>	Go to step 9.	Go to step 8.
Is the pick roller properly installed and free of contamination and damage?		
Step 8 Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590. Does the problem remain?	Go to step 9.	The problem is solved.
Step 9	Go to step 11.	Go to step 10.
Remove the affected source tray insert, and then check if the following components are functional and free of damage: <ul> <li>Paper guides</li> <li>Lift plate</li> </ul> <li>Note: Move the components or turn gears to check for proper</li>		55 to step 10.
Are the tray insert and its components functional and free of damage?		

Action	Yes	No
Step 10 Replace the tray insert.	Go to step 11.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 11</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 2)).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 15.	Go to step 12.
<ul> <li>Step 12</li> <li>a Remove the optional tray left cover. See <u>"550 -sheet tray</u></li> <li>left cover removal" on page 583.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 14.	Go to step 13.
Step 13 Reseat the cable. Does the problem remain?	Go to step 14.	The problem is solved.
Step 14 Replace the sensor. See <u>"Sensor (tray 1 pass-through) removal"</u> on page 513. Does the problem remain?	Go to step 15.	The problem is solved.
<ul> <li>Step 15 <ul> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pick (tray x)).</li> <li>Note: For tray x, choose the tray number of the affected source tray.</li> </ul> </li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 19.	Go to step 16.
<ul> <li>Step 16</li> <li>a Remove the optional tray left cover. See <u>"550 -sheet tray</u></li> <li>left cover removal" on page 583.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 18.	Go to step 17.

Action	Yes	No
Step 17	Go to step 18.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 18	Go to step 19.	The problem is
Replace the sensor. See <u>"Sensor (550 -sheet tray pick)</u> removal"on page 594.		solved.
Does the problem remain?		
Step 19	Go to step 23.	Go to step 20.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Sensor tests		
<b>b</b> Find the sensor (Media out (tray x)).		
<b>Note:</b> For tray x, choose the tray number of the affected source tray.		
Does the sensor status change while toggling the sensor?		
Step 20	Go to step 22.	Go to step 21.
a Remove the optional tray left cover. See <u>"550 -sheet tray</u>	_	
left cover removal" on page 583.		
<b>b</b> Check the sensor cable on the optional tray controller board		
for proper connection.		
Is the cable properly connected?		
Step 21	Go to step 22.	The problem is
Reseat the cable.		solved.
Describe marking remain?		
Does the problem remain?		
Step 22	Go to step 23.	The problem is solved.
Replace the sensor. See <u>"Sensor (550 -sheet tray paper</u> present) removal" on page 596.	-	solved.
Does the problem remain?		
Step 23	Go to step 27.	Go to step 24.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Sensor tests		
<b>b</b> Find the sensor (Pick roller index (tray x)).		
<b>Note:</b> For tray x, choose the tray number of the affected		
source tray.		
Does the sensor status change while toggling the sensor?		

Action	Yes	No
Step 24	Go to step 26.	Go to step 25.
<ul> <li>a Remove the optional tray left cover. See <u>"550 -sheet tray</u></li> <li>left cover removal" on page 583.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul>		
Is the cable properly connected?		
Step 25	Go to step 26.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 26	Go to step 27.	The problem is
Replace the sensor. See <u>"Sensor (550 -sheet tray pick</u> roller index) removal" on page 595.		solved.
Does the problem remain?		
Step 27	Go to step 29.	Go to step 28.
<ul> <li>a Remove the optional tray left cover. See <u>"550 -sheet tray left</u></li> <li><u>cover removal" on page 583</u>.</li> <li>b Check if the affected source tray paper feeder and its actuators are functional, properly installed, and free of damage.</li> </ul>		
Are the paper feeder and its components functional, properly installed, and free of damage?		
Step 28	Go to step 29.	The problem is
Reinstall or replace the paper feeder. See <u>"550-sheet</u> tray paper feeder removal" on page 591.		solved.
Does the problem remain?		
Step 29	Go to step 30.	The problem is
Make sure that the affected source tray controller board is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 30	Contact the next	Go to step 31.
Check the source tray controller board and its connector pins for damage.	level of support.	
Are the tray controller board and its connectors free of damage?		
Step 31	Contact the next	The problem is
Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	level of support.	solved.
Does the problem remain?		

# Sensor (tray 2 pass-through) unknown source late-arriving or late-leaving jam service check

Action	Yes	Νο
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Input tray quick print</li> <li>b Do feed tests from trays 2 to 5. Check if the same error occurs.</li> </ul>	Go to step 5.	Perform the appropriate service check for the specific error.
Does the same problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 2)).</li> </ul>	Go to step 9.	Go to step 6.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 6</li> <li>a Remove the optional tray left cover. See <u>"550-sheet tray left</u> cover removal" on page 583.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul>	Go to step 8.	Go to step 7.
Is the cable properly connected?		
<b>Step 7</b> Reseat the cable.	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 9</li> <li>Check the affected source tray pick roller for improper installation, contamination, and damage.</li> <li>Note: Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.</li> </ul>	Go to step 11.	Go to step 10.
Is the pick roller properly installed and free of contamination and damage?		
Step 10 Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590.	Go to step 11.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 11</li> <li>Remove the affected source tray insert, and then check if the following components are functional and free of damage:</li> <li>Paper guides</li> <li>Lift plate</li> </ul>	Go to step 13.	Go to step 12.
<b>Note:</b> Move the components or turn gears to check for proper mechanisms.		
Are the tray insert and its components functional and free of damage?		
Step 12 Replace the tray insert.	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Check the separator pad for improper installation, contamination, wear, and damage.	Go to step 15.	Go to step 14.
Is the separator pad properly installed and free of contamination, wear, and damage?		
<b>Step 14</b> Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> <u>removal" on page 510</u> .	Go to step 15.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 15</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pass-through (tray 2)), and then touch Start.</li> <li>Does the motor run?</li> </ul>	Go to step 18.	Go to step 16.
Step 16 Reseat the cable on the motor and on the optional tray controller board. Does the problem remain?	Go to step 17.	The problem is solved.
Step 17 Replace the motor (tray 2 transport). See <u>"Motor (550- sheet</u> tray transport) removal" on page 591. Does the problem remain?	Go to step 18.	The problem is solved.
<ul> <li>Step 18</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pick (tray x)), and then touch Start. Note: For tray x, choose the tray number of the affected source tray.</li> <li>Does the motor run?</li> </ul>	Go to step 21.	Go to step 19.
Step 19 Reseat the cable on the motor and on the optional tray controller board. Does the problem remain?	Go to step 20.	The problem is solved.
Step 20         Replace the source tray paper feeder. See <u>"550-sheet tray paper feeder removal" on page 591.</u> Does the problem remain?	Go to step 21.	The problem is solved.

Action	Yes	No
<b>Step 21</b> Make sure that the affected source tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 22.	The problem is solved.
Does the problem remain?		
<b>Step 22</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 23 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 550-sheet tray transport drive jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Enter the Diagnostics menu, and then navigate to:		solved.
Input tray quick print >select source tray > Single		
Does the problem remain?		

Action	Yes	No
Step 5	Go to step 8.	Go to step 6.
a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page</u> <u>583</u> .		
<ul> <li>b Enter the Diagnostics menu, and then navigate to:</li> <li>Additional input tray diagnostics &gt; Motor tests</li> </ul>		
<b>c</b> Select the motor (Pass-through (tray x)), and then touch <b>Start</b> .		
<b>Note:</b> For tray x, choose the tray number of the affected tray.		
Does the motor run?		
<b>Step 6</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7	Go to step 8.	The problem is
Replace the motor. See <u>"Motor-(550 sheet tray</u> transport) removal" on page 591.		solved.
Does the problem remain?		
<ul> <li>Step 8</li> <li>Remove the source tray insert, and then check if the following components are functional and free of damage: <ul> <li>Paper guides</li> <li>Lift plate</li> </ul> </li> <li>Note: Move the components or turn gears to check for proper mechanisms.</li> </ul>	Go to step 10.	Go to step 9.
Are the tray insert and its components functional and free of damage?		
Step 9	Go to step 10.	The problem is
Replace the tray insert.		solved.
Does the problem remain?		
Step 10	Go to step 11.	The problem is
Make sure that the controller board of the affected tray is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 11	Contact the next	The problem is
Check the affected tray controller board and its connector pins for damage.	level of support.	solved.
Are the tray controller board and its connectors free of damage?		

Action	Yes	No
Step 12 Replace the affected tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 2100-sheet tray elevator drive jam service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print >select source tray > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the source tray pick roller for improper installation, contamination, and damage.	Go to step 7.	Go to step 6.
<b>Note:</b> Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed and free of contamination and damage?		
<b>Step 6</b> Reinstall, clean, or replace the pick roller.	Go to step 7.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 7</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pick roller index (tray x)). Note: For tray x, choose the tray number of the affected source tray.</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 11.	Go to step 8.
<ul> <li>Step 8 <ul> <li>a Remove the optional tray left cover. See <u>"2100-sheet tray left cover removal" on page 560</u>.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul> </li> <li>Is the cable properly connected?</li> </ul>	Go to step 10.	Go to step 9.
Step 9 Reseat the cable. Does the problem remain?	Go to step 10.	The problem is solved.
Step 10 Replace the sensor. See <u>"Sensor (2100-sheet tray pick roller</u> <u>index) removal" on page 578</u> .	Go to step 11.	The problem is solved.
<ul> <li>Does the problem remain?</li> <li>Step 11 <ul> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"2100-sheet tray left cover removal" on page 560</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (High capacity tray lift), and then touch Start.</li> </ul> </li> <li>Does the motor run?</li> </ul>	Go to step 14.	Go to step 12.
Step 12 Reseat the cable on the motor and on the optional tray controller board. Does the problem remain?	Go to step 13.	The problem is solved.
Step 13 Replace the motor drive. See <u>"2100-sheet tray elevator drive</u> removal" on page 571. Does the problem remain?	Go to step 14.	The problem is solved.

Action	Yes	No
Step 14 Perform a print test again, and then observe if the motor (2100-sheet tray transport) is running.	Go step 17.	Go to step 15.
Does the motor run?		
<b>Step 15</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 16.	The problem is solved.
Does the problem remain?		
Step 16 Replace the motor. See <u>"Motor (2100-sheet tray transport)</u> removal" on page 565.	Go to step 17.	The problem is solved.
Does the problem remain?		
<b>Step 17</b> Check the optional tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 18Replace the optional tray controller board. See <u>"2100-sheet tray</u> controller board removal" on page 570.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 243 paper jams

## 243 paper jam messages

Error code	Description	Action
243.36	Paper fed from tray 3 was picked but it never reached the sensor (tray 2 pass-through).	See <u>"Tray 3 pick jam service check" on</u> page 178.
243.41	Paper remains detected at the sensor (tray 3 pass-through) although the printer is idle. Tray 4 is the paper source.	See <u>"Sensor (tray 3 pass-through) static jam</u> <u>service check" on page 176</u> .
243.43	Paper fed from tray 4 never reached the sensor (tray 3 pass-through).	See <u>"Sensor (tray 3 pass-through) late-arriving</u> or late-leaving jam service check" on page
243.45	Paper fed from tray 4 cleared the sensor (tray 3 pass-through) later than expected.	<u>181</u> .
243.47	Paper fed from tray 4 never cleared the sensor (tray 3 pass-through).	

Error code	Description	Action
243.51	Paper remains detected at the sensor (tray 3 pass-through) although the printer is idle. Tray 5 is the paper source.	See <u>"Sensor (tray 3 pass-through) static jam</u> <u>service check" on page 176</u> .
243.53	Paper fed from tray 5 never reached the sensor (tray 3 pass-through).	See <u>"Sensor (tray 3 pass-through) late-arriving</u> or late-leaving jam service check" on page
243.55	Paper fed from tray 5 cleared the sensor (tray 3 pass-through) later than expected.	<u>181</u> .
243.57	Paper fed from tray 5 never cleared the sensor (tray 3 pass-through).	
243.70	Motor (550-sheet tray 3 transport) does not turn on.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170.
243.70	Motor (2100-sheet tray 3 elevator) does not turn on.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .
243.71	Motor (550-sheet tray 3 transport) does not turn off.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170.
243.71	Motor (2100-sheet tray 3 elevator) does not turn off.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .
243.72	Motor (550-sheet tray 3 transport) speed did not ramp up to the required level.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170
243.72	Motor (2100-sheet tray 3 elevator) speed did not ramp up to the required level.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .
243.73	Motor (550-sheet tray 3 transport) stalled.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170.
243.73	Motor (2100-sheet tray 3 elevator) stalled.	See <u>"2100-sheet tray elevator drive jam service</u> check" on page 172.
243.74	Motor (550-sheet tray 3 transport) ran too slow.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170
243.74	Motor (2100-sheet tray 3 elevator) ran too slow.	See <u>"2100-sheet tray elevator drive jam service</u> check" on page 172.
243.75	Motor (550-sheet tray 3 transport) ran too fast.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170
243.75	Motor (2100-sheet tray 3 elevator) ran too fast.	See <u>"2100-sheet tray elevator drive jam service</u> check" on page 172.
243.76	Motor (550-sheet tray 3 transport) ran too long.	See <u>"550-sheet tray-transport drive</u> jam service check" on page 170.
243.76	Motor (2100-sheet tray 3 elevator) ran too long.	See <u>"2100-sheet tray elevator drive jam service</u> check" on page 172.

Error code	Description	Action
243.80	Motor (tray 3 pick/lift) does not turn on.	See <u>"Optional tray pick drive failure service</u>
243.81	Motor (tray 3 pick/lift) does not turn off.	check" on page 343.
243.82	Motor (tray 3 pick/lift) speed did not ramp up to the required level.	
243.83	Motor (tray 3 pick/lift) stalled.	
243.84	Motor (tray 3 pick/lift) ran too slow.	
243.85	Motor (tray 3 pick/lift) ran too fast.	
243.86	Motor (tray 3 pick/lift) ran too long.	
243.91	Paper remains detected at the sensor (tray 3 pass-through) after the printer is turned on.	See <u>"Sensor (tray 3 pass-through) static jam</u> service check" on page 176.
243.92	Paper was detected earlier than expected at the sensor (tray 3 pass-through). Paper source is undetermined.	See <u>"Sensor (tray 3 pass-through) unknown</u> source late-arriving or late-leaving jam service check" on page 184.
243.93	Paper never arrived at the sensor (tray 3 pass-through). Paper source is undetermined.	
243.95	Paper cleared the sensor (tray 3 pass-through) later than expected. Paper source is undetermined.	
243.96	Paper was picked but it never reached the sensor (tray 3 pass-through). Paper source is undetermined.	See <u>"Sensor (tray 3 pass-through) unknown</u> source pick jam service check" on page 188.
243.97	Paper never cleared the sensor (tray 3 pass-through). Paper source is undetermined.	See <u>"Sensor (tray 3 pass-through) unknown</u> source late-arriving or late-leaving jam service check" on page 184.

## Sensor (tray 3 pass-through) static jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
Step 4	Go to step 8.	Go to step 5.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Sensor tests		
<b>b</b> Find the sensor (Pass-through (tray 3)).		
Does the sensor status change while toggling the sensor?		
Step 5	Go to step 7.	Go to step 6.
a Remove the optional tray left cover. See <u>"550-sheet tray left</u> -	-	
cover removal" on page 583.		
<b>b</b> Check the sensor cable on the optional tray controller board for proper connection.		
Is the cable properly connected?		
Step 6	Go to step 7.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 7	Go to step 8.	The problem is solved.
Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.		501760.
Does the problem remain?		
Step 8	Go to step 9.	The problem is
a Remove the source tray left cover. See <u>"550-sheet</u> tray left cover removal" on page 583.		solved.
<b>b</b> Make sure that the source tray controller board is properly		
installed. Reseat all the cables on the controller board.		
Does the problem remain?		
Step 9	Contact the next	Go to step 10.
Check the source tray controller board and its connector pins for	level of support.	
damage.		
Are the tray controller board and its connectors free of damage?		
Step 10	Contact the next	The problem is
Replace the source tray controller board. See <u><b>"550</b></u> sheet	level of support.	solved.
tray controller board removal" on page 593.		
Does the problem remain?		

## Tray 3 pick jam service check

Action	Yes	Νο
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 3 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the source tray pick roller for improper installation, contamination, and damage.	Go to step 7.	Go to step 6.
<b>Note:</b> Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed and free of contamination and damage?		
Step 6 Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590.	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 2)).</li> </ul>	Go to step 11.	Go to step 8.
Does the sensor status change while toggling the sensor?		

Action	Yes	No
Step 8	Go to step 10.	Go to step 9.
a Remove the optional tray left cover. See <u>"550-sheet tray left</u> .		
<ul><li><u>cover removal</u> on page 583.</li><li>b Check the sensor cable on the optional tray controller board</li></ul>		
for proper connection.		
Is the cable properly connected?		
Step 9	Go to step 10.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 10	Go to step 11.	The problem is
Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.		solved.
Does the problem remain?		
Step 11	Go to step 13.	Go to step 12.
Remove the source tray insert, and then check if the following components are functional and free of damage:		
Paper guides		
• Lift plate		
<b>Note:</b> Move the components or turn gears to check for proper mechanisms.		
Are the tray insert and its components functional and free of damage?		
Step 12	Go to step 13.	The problem is
Replace the tray insert.		solved.
Does the problem remain?		
Step 13	Go to step 15.	Go to step 14.
Check the source tray separator pad for improper installation, contamination, wear, and damage.		
Is the separator pad properly installed and free of contamination, wear, and damage?		
Step 14	Go to step 15.	The problem is
Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> removal" on page 510.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 15 <ul> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pass-through (tray 2)), and then touch Start.</li> </ul> </li> <li>Does the motor run?</li> </ul>	Go to step 18.	Go to step 16.
Step 16 Reseat the cable on the motor and on the optional tray controller board. Does the problem remain?	Go to step 17.	The problem is solved.
Step 17Replace the motor (tray 2 transport). See <u>"Motor (550- sheet tray transport) removal" on page 591.</u> Does the problem remain?	Go to step 18.	The problem is solved.
<ul> <li>Step 18</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pick (tray 3)), and then touch Start.</li> <li>Does the motor run?</li> </ul>	Go to step 20.	Go to step 19.
Step 19 Reseat the cable on the motor and on the optional tray controller board. Does the problem remain?	Go to step 20.	The problem is solved.
Step 20 Check if the source tray paper feeder and its actuators are functional, properly installed, and free of damage. Are the paper feeder and its components functional, properly installed, and free of damage?	Go to step 22.	Go to step 21.
<b>Step 21</b> Reinstall or replace the paper feeder. See <u>"550-sheet</u> tray <u>paper feeder removal" on page 591.</u> Does the problem remain?	Go to step 22.	The problem is solved.

Action	Yes	No
<b>Step 22</b> Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 23.	The problem is solved.
Step 23 Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	Go to step 24.
Are the tray controller board and its connectors free of damage? <b>Step 24</b> Replace the source tray controller board. See <u>"550 sheet</u> <u>tray controller board removal" on page 593.</u>	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### Sensor (tray 3 pass-through) late-arriving or late-leaving jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Enter the Diagnostics menu, and then navigate to:		solved.
Input tray quick print >select source tray > Single		
Does the problem remain?		
Step 5	Go to step 9.	Go to step 6.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Sensor tests		
<b>b</b> Find the sensor (Pass-through (tray 3)).		
Does the sensor status change while toggling the sensor?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Remove the optional tray left cover. See <u>"550-sheet tray left</u></li> <li><u>cover removal" on page 583</u>.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul>	Go to step 8.	Go to step 7.
Is the cable properly connected?		
Step 7 Reseat the cable.	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.	Go to step 9.	The problem is solved.
Does the problem remain? Step 9	Go to step 11.	Go to step 10.
Check the source tray pick roller for improper installation, contamination, and damage.	GO 10 Step 11.	Go to step 10.
<b>Note:</b> Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed and free of contamination and damage?		
Step 10 Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11         Remove the source tray insert, and then check if the following components are functional and free of damage:         • Paper guides         • Lift plate         Note: Move the components or turn gears to check for proper mechanisms.         Are the tray insert and its components functional and free of damage?	Go to step 13.	Go to step 12.
Step 12 Replace the tray insert. Does the problem remain?	Go to step 13.	The problem is solved.

Action	Yes	No
<b>Step 13</b> Check the separator pad for improper installation, contamination, wear, and damage.	Go to step 15.	Go to step 14.
Is the separator pad properly installed and free of contamination, wear, and damage?		
<b>Step 14</b> Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> <u>removal" on page 510</u> .	Go to step 15.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 15</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pass-through (tray 3)), and then touch Start.</li> </ul>	Go to step 18.	Go to step 16.
Does the motor run?		
<b>Step 16</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 17.	The problem is solved.
Does the problem remain?		
Step 17 Replace the motor (tray 3 transport). See <u>"Motor (550-</u> sheet tray transport) removal" on page 591.	Go to step 18.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 18</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pick (tray x)), and then touch Start. Note: For tray x, choose the tray number of the affected source tray.</li> </ul>	Go to step 21.	Go to step 19.
Does the motor run?		

Action	Yes	No
<b>Step 19</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 20.	The problem is solved.
Does the problem remain?		
Step 20 Replace the source tray paper feeder. See <u>"550-sheet</u> tray paper feeder removal" on page 591.	Go to step 21.	The problem is solved.
Does the problem remain?		
<b>Step 21</b> Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 22.	The problem is solved.
Does the problem remain?		
Step 22 Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 23 Replace the source tray controller board. See <u>"550 sheet</u> tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Sensor (tray 3 pass-through) unknown source late-arriving or late-leaving jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Input tray quick print</li> <li>b Do feed tests from trays 3 to 5. Check if the same error occurs.</li> <li>Does the same problem remain?</li> </ul>	Go to step 5.	Perform the appropriate service check for the specific error.
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 3)).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 9.	Go to step 6.
<ul> <li>Step 6</li> <li>a Remove the optional tray left cover. See <u>"550-sheet tray left - cover removal" on page 583</u>.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 8.	Go to step 7.
<b>Step 7</b> Reseat the cable. Does the problem remain?	Go to step 8.	The problem is solved.
Step 8 Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.	Go to step 9.	The problem is solved.
Does the problem remain? Step 9 Check the affected source tray pick roller for improper installation, contamination, and damage. Note: Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft. Is the pick roller properly installed and free of contamination and damage?	Go to step 11.	Go to step 10.
Step 10         Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590.         Does the problem remain?	Go to step 11.	The problem is solved.

Action	Yes	No
Step 11	Go to step 13.	Go to step 12.
<ul> <li>Remove the affected source tray insert, and then check if the following components are functional and free of damage:</li> <li>Paper guides</li> <li>Lift plate</li> </ul>		
<b>Note:</b> Move the components or turn gears to check for proper mechanisms.		
Are the tray insert and its components functional and free of damage?		
Step 12 Replace the tray insert.	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Check the separator pad for improper installation, contamination, wear, and damage.	Go to step 15.	Go to step 14.
Is the separator pad properly installed and free of contamination, wear, and damage?		
Step 14 Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> <u>removal" on page 510</u> .	Go to step 15.	The problem is solved.
Does the problem remain?		
Step 15	Go to step 18.	Go to step 16.
<ul> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pass-through (tray 3)), and then touch Start.</li> </ul>		
Does the motor run?		
Step 16	Go to step 17.	The problem is
Reseat the cable on the motor and on the optional tray controller board.		solved.
Does the problem remain?		
Step 17	Go to step 18.	The problem is
Replace the motor (tray 3 transport). See <u>"Motor (550-</u> sheet tray transport) removal" on page 591.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 18</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pick (tray x)), and then touch Start. Note: For tray x, choose the tray number of the affected source tray.</li> <li>Does the motor run?</li> </ul>	Go to step 21.	Go to step 19.
Step 19 Reseat the cable on the motor and on the optional tray controller board.	Go to step 20.	The problem is solved.
Does the problem remain? Step 20 Replace the source tray paper feeder. See <u>"550-sheet</u> tray paper feeder removal" on page 591. Does the problem remain?	Go to step 21.	The problem is solved.
Step 21 Make sure that the affected source tray controller board is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 22.	The problem is solved.
<b>Step 22</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage? Step 23 Replace the source tray controller board. See <u>"550 sheet</u> tray controller board removal" on page 593. Does the problem remain?	Contact the next level of support.	The problem is solved.

## Sensor (tray 3 pass-through) unknown source pick jam service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Input tray quick print</li> <li>b Do feed tests from trays 3 to 5. Check if the same error occurs.</li> </ul>	Go to step 5.	Perform the appropriate service check for the specific error.
Step 5	Go to step 7.	Go to step 6.
Check the affected source tray pick roller for improper installation, contamination, and damage.		
<b>Note:</b> Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed and free of contamination and damage?		
Step 6 Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590.	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 3)).</li> </ul>	Go to step 11.	Go to step 8.
Does the sensor status change while toggling the sensor?		

Action	Yes	No
Step 8	Go to step 10.	Go to step 9.
<ul> <li>a Remove the optional tray left cover. See <u>"550-sheet tray left - cover removal" on page 583</u>.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul>		
Is the cable properly connected?		
Step 9	Go to step 10.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 10 Replace the sensor. See <u>"Sensor (550-sheset tray</u> pass-through) removal"on page 594.	Go to step 11.	The problem is solved.
Does the problem remain?		
Step 11	Go to step 13.	Go to step 12.
Remove the affected source tray insert, and then check if the following components are functional and free of damage:		
Paper guides		
Lift plate		
<b>Note:</b> Move the components or turn gears to check for proper mechanisms.		
Are the tray insert and its components functional and free of damage?		
Step 12	Go to step 13.	The problem is
Replace the tray insert.		solved.
Does the problem remain?		
Step 13	Go to step 15.	Go to step 14.
Check the separator pad for improper installation, contamination, wear, and damage.		
Is the separator pad properly installed and free of contamination, wear, and damage?		
Step 14 Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> <u>removal" on page 510</u> .	Go to step 15.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 15	Go to step 18.	Go to step 16.
a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page</u> 583.		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Motor tests		
<b>c</b> Select the motor (Pass-through (tray 3)), and then touch <b>Start</b> .		
Does the motor run?		
<b>Step 16</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 17.	The problem is solved.
Does the problem remain?		
Step 17	Go to step 18.	The problem is
Replace the motor (tray 3 transport). See <u>"Motor (550-</u> sheet tray transport) removal" on page 591.		solved.
Does the problem remain?		
Step 18	Go to step 20.	Go to step 19.
a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page</u> <u>583</u> .		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Motor tests		
<ul> <li>C Select the motor (Pick (tray x)), and then touch Start.</li> <li>Note: For tray x, choose the tray number of the affected source tray.</li> </ul>		
Does the motor run?		
Step 19	Go to step 20.	The problem is
Reseat the cable on the motor and on the optional tray controller board.		solved.
Does the problem remain?		
Step 20	Go to step 22.	Go to step 21.
Check if the affected source tray paper feeder and its actuators are functional, properly installed, and free of damage.		
Are the paper feeder and its components functional, properly installed, and free of damage?		

Action	Yes	No
Step 21 Reinstall or replace the paper feeder. See <u>"550-sheet</u> tray paper feeder removal" on page 591.	Go to step 22.	The problem is solved.
Does the problem remain?		
<b>Step 22</b> Make sure that the affected source tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 23.	The problem is solved.
Does the problem remain?		
<b>Step 23</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	Go to step 24.
Are the tray controller board and its connectors free of damage?		
Step 24 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 244 paper jams

#### 244 paper jammessages

Error code	Description	Action
244.46	Paper fed from tray 4 was picked but it never reached the sensor (tray 3 pass-through).	See <u>"Tray 4 pick jam service check" on</u> page 194.
244.51	Paper remains detected at the sensor (tray 4 pass-through) although the printer is idle. Tray 5 is the paper source.	See <u>"Sensor (tray 4 pass-through) static jam</u> service check" on page 193.
244.53	Paper fed from tray 5 never reached the sensor (tray 4 pass-through).	See <u>"Sensor (tray 4 pass-through) late-arriving</u> or late-leaving jam service check" on page 197.
244.55	Paper fed from tray 5 cleared the sensor (tray 4 pass-through) later than expected.	
244.57	Paper fed from tray 5 never cleared the sensor (tray 4 pass-through).	

Error code	Description	Action
244.70	Motor (2100-sheet tray 4 elevator) does not turn on.	See <u>"2100-sheet tray elevator drive jam service</u> check" on page 172.
244.71	Motor (2100-sheet tray 4 elevator) does not turn off.	
244.72	Motor (2100-sheet tray 4 elevator) speed did not ramp up to the required level.	
244.73	Motor (2100-sheet tray 4 elevator) stalled.	
244.74	Motor (2100-sheet tray 4 elevator) ran too slow.	
244.75	Motor (2100-sheet tray 4 elevator) ran too fast.	
244.76	Motor (2100-sheet tray 4 elevator) ran too long.	
244.80	Motor (tray 4 pick/lift) does not turn on.	See <u>"Optional tray pick drive failure service</u>
244.81	Motor (tray 4 pick/lift) does not turn off.	check" on page 343.
244.82	Motor (tray 4 pick/lift) speed did not ramp up to the required level.	
244.83	Motor (tray 4 pick/lift) stalled.	
244.84	Motor (tray 4 pick/lift) ran too slow.	
244.85	Motor (tray 4 pick/lift) ran too fast.	
244.86	Motor (tray 4 pick/lift) moved too long.	
244.91	Paper remains detected at the sensor (tray 4 pass-through) after the printer is turned on.	See <u>"Sensor (tray 4 pass-through) static jam</u> service check" on page 193.
244.93	Paper never arrived at the sensor (tray 4 pass-through). Paper source is undetermined.	See <u>"Sensor (tray 4 pass-through) late-arriving</u> or late-leaving jam service check" on page
244.95	Paper cleared the sensor (tray 4 pass-through) later than expected. Paper source is undetermined.	1 <u>197</u> .
244.96	Paper was picked but it never reached the sensor (tray 4 pass-through). Paper source is undetermined.	See <u>"Tray 5 pick jam service check" on</u> page 203.
244.97	Paper never cleared the sensor (tray 4 pass-through). Paper source is undetermined.	See <u>"Sensor (tray 4 pass-through) late-arriving</u> or late-leaving jam service check" on page <u>197</u> .

## Sensor (tray 4 pass-through) static jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
s the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		
Step 4	Go to step 9.	Go to step 5.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Sensor tests		
<b>b</b> Find the sensor (Pass-through (tray 4)).		
Does the sensor status change while toggling the sensor?		
Step 5	Go to step 7.	Go to step 6.
a Remove the optional tray left cover. See <u>"550-sheet tray left</u> .	-	
<ul> <li>cover removal" on page 583.</li> <li>b Check the sensor cable on the optional tray controller board</li> </ul>		
for proper connection.		
is the cable properly connected? Step 6	Go to step 7.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 7	Go to step 8.	The problem is
Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.		solved.
Does the problem remain?		
Step 8	Go to step 9.	The problem is
a Remove the source tray left cover. See <u>"550-sheet</u> tray left cover removal" on page 583.		solved.
<b>b</b> Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board.		
Does the problem remain?		

Action	Yes	No
<b>Step 9</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	Go to step 10.
Are the tray controller board and its connectors free of damage?		
Step 10 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Tray 4 pick jam service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 4 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the source tray pick roller for improper installation, contamination, and damage.	Go to step 7.	Go to step 6.
<b>Note:</b> Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed and free of contamination and damage?		

Action	Yes	No
Step 6 Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590.	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 3)).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 11.	Go to step 8.
<ul> <li>Step 8</li> <li>a Remove the optional tray left cover. See <u>"550-sheet tray left - cover removal" on page 583</u>.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Go to step 10.	Go to step 9.
Step 9 Reseat the cable.	Go to step 10.	The problem is solved.
Step 10 Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.	Go to step 11.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 11</li> <li>Remove the source tray insert, and then check if the following components are functional and free of damage: <ul> <li>Paper guides</li> <li>Lift plate</li> </ul> </li> <li>Note: Move the components or turn gears to check for proper</li> </ul>	Go to step 13.	Go to step 12.
mechanisms. Are the tray insert and its components functional and free of damage?		
Step 12 Replace the tray insert. Does the problem remain?	Go to step 13.	The problem is solved.

Action	Yes	No
Step 13	Go to step 15.	Go to step 14.
Check the source tray separator pad for improper installation, contamination, wear, and damage.		
Is the separator pad properly installed and free of contamination, wear, and damage?		
Step 14 Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> <u>removal" on page 510</u> .	Go to step 15.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 15</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pass-through (tray 3)), and then touch Start.</li> </ul>	Go to step 18.	Go to step 16.
Does the motor run?	C	
Step 16 Reseat the cable on the motor and on the optional tray controller board.	Go to step 17.	The problem is solved.
Does the problem remain?		
Step 17 Replace the motor. See <u>"Motor (550 sheet tray</u> <u>transport) removal" on page 591</u> . Does the problem remain?	Go to step 18.	The problem is solved.
	Catastan 20	Catastan 10
<ul> <li>Step 18</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pick (tray 4)), and then touch Start.</li> </ul>	Go to step 20.	Go to step 19.
Step 19	Go to step 20.	The problem is
Reseat the cable on the motor and on the optional tray controller board.	50 to step 20.	solved.
Does the problem remain?		

Action	Yes	No
<b>Step 20</b> Check if the source tray paper feeder and its actuators are functional, properly installed, and free of damage. Are the paper feeder and its components functional, properly	Go to step 22.	Go to step 21.
installed, and free of damage?		
Step 21 Reinstall or replace the paper feeder. See <u>"550-sheet</u> tray paper feeder removal" on page 591.	Go to step 22.	The problem is solved.
Does the problem remain?		
Step 22 Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 23.	The problem is solved.
Does the problem remain? Step 23	Contact the next	Go to step 24.
Check the source tray controller board and its connector pins for damage.	level of support.	GU tU Step 24.
Are the tray controller board and its connectors free of damage?		
Step 24 Replace the source tray controller board. See <u>"550 sheet tray</u> <u>controller board removal" on page 593.</u>	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (tray 4 pass-through) late-arriving or late-leaving jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 5 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 4)).</li> </ul>	Go to step 9.	Go to step 6.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 6</li> <li>a Remove the optional tray left cover. See <u>"550-sheet tray left -</u> cover removal" on page 583.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul>	Go to step 8.	Go to step 7.
Is the cable properly connected?		
<b>Step 7</b> Reseat the cable.	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.	Go to step 9.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 9</li> <li>Check the tray 5 pick roller for improper installation, contamination, and damage.</li> <li>Note: Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.</li> </ul>	Go to step 11.	Go to step 10.
Is the pick roller properly installed and free of contamination and damage?		
<b>Step 10</b> Reinstall, clean, or replace the pick roller.	Go to step 11.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 11	Go to step 13.	Go to step 12.
Remove the source tray insert, and then check if the following components are functional and free of damage: <ul> <li>Paper guides</li> </ul>		
Lift plate		
<b>Note:</b> Move the components or turn gears to check for proper mechanisms.		
Are the tray insert and its components functional and free of damage?		
Step 12	Go to step 13.	The problem is
Replace the tray insert.		solved.
Does the problem remain?		
Step 13	Go to step 15.	Go to step 14.
Check the separator pad for improper installation, contamination, wear, and damage.		
Is the separator pad properly installed and free of contamination, wear, and damage?		
Step 14	Go to step 15.	The problem is
Reinstall, clean, or replace the separator pad.		solved.
Does the problem remain?		
Step 15	Go to step 18.	Go to step 16.
<ul> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page</u> 583.</li> </ul>		
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Motor tests		
<b>c</b> Select the motor (Pass-through (tray 4)), and then touch <b>Start</b> .		
Does the motor run?		
Step 16	Go to step 17.	The problem is
Reseat the cable on the motor and on the optional tray controller board.		solved.
Does the problem remain?		
Step 17	Go to step 18.	The problem is
Replace the motor (tray 4 transport). See <u>"Motor (550-</u> sheet tray transport) removal" on page 591.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 18</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pick (tray 5)), and then touch Start.</li> <li>Does the motor run?</li> </ul>	Go to step 21.	Go to step 19.
Step 19 Reseat the cable on the motor and on the optional tray controller board. Does the problem remain?	Go to step 20.	The problem is solved.
Step 20         Replace the tray 5 paper feeder. See <u>"550-sheet tray paper feeder removal" on page 591.</u> Does the problem remain?	Go to step 21.	The problem is solved.
Step 21 Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 22.	The problem is solved.
Step 22         Check the source tray controller board and its connector pins for damage.         Are the tray controller board and its connectors free of damage?	Contact the next level of support.	The problem is solved.
Step 23Replace the source tray controller board. See <a href="mailto:"><u>"550</u> sheet</a> tray controller board removal" on page 593.Does the problem remain?	Contact the next level of support.	The problem is solved.

### 245 paper jammessages

Error code	Description	Action
245.56	Paper fed from tray 5 was picked but it never reached the sensor (tray 4 pass-through).	See <u>"Tray 5 pick jam service check" on</u> page 203.
245.70	Motor (2100-sheet tray 5 elevator) does not turn on.	See <u>"2100-sheet tray elevator drive jam service</u> <u>check" on page 172</u> .
245.71	Motor (2100-sheet tray 5 elevator) does not turn off.	
245.72	Motor (2100-sheet tray 5 elevator) speed did not ramp up to the required level.	
245.73	Motor (2100-sheet tray 5 elevator) stalled.	
245.74	Motor (2100-sheet tray 5 elevator) ran too slow.	
245.75	Motor (2100-sheet tray 5 elevator) ran too fast.	
245.76	Motor (2100-sheet tray 5 elevator) ran too long.	
245.80	Motor (tray 5 pick/lift) does not turn on.	See <u>"Optional tray pick drive failure service</u>
245.81	Motor (tray 5 pick/lift) does not turn off.	check" on page 343.
245.82	Motor (tray 5 pick/lift) speed did not ramp up to the required level.	
245.83	Motor (tray 5 pick/lift) stalled.	
245.84	Motor (tray 5 pick/lift) ran too slow.	
245.85	Motor (tray 5 pick/lift) ran too fast.	
245.86	Motor (tray 5 pick/lift) moved too long.	
245.91	Paper remains detected at the sensor (tray 5 pass-through) after the printer is turned on.	See <u>"Sensor (tray 5 pass-through) static jam</u> <u>service check" on page 201</u> .

### Sensor (tray 5 pass-through) static jam service check

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

Action	Yes	No
Step 3 Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 5)).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 9.	Go to step 5.
<ul> <li>Step 5</li> <li>a Remove the optional tray left cover. See <u>"550-sheet tray left -</u> cover removal" on page 583.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul>	Go to step 7.	Go to step 6.
Is the cable properly connected?		
Step 6 Reseat the cable. Does the problem remain?	Go to step 7.	The problem is solved.
Step 7 Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.	Go to step 8.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 8</li> <li>a Remove the optional tray left cover. See <u>"550-sheet tray left</u> cover removal" on page 583.</li> <li>b Make sure that the optional tray controller board is properly installed. Reseat all the cables on the controller board.</li> <li>Does the problem remain?</li> </ul>	Go to step 9.	The problem is solved.
Step 9	Contact the next	Go to step 10.
Check the source tray controller board and its connector pins for damage.	level of support.	
Are the tray controller board and its connectors free of damage?		
Step 10 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Tray 5 pick jam service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 5 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the tray 5 pick roller for improper installation, contamination, and damage.	Go to step 7.	Go to step 6.
<b>Note:</b> Make sure that the pick roller is fully pressed to its feeder shaft. A click will be heard indicating a proper engagement between the latches and the shaft.		
Is the pick roller properly installed and free of contamination and damage?		
Step 6 Reinstall, clean, or replace the pick roller. See <u>"Pick roller removal"</u> on page 590.	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Sensor tests</li> <li>b Find the sensor (Pass-through (tray 4)).</li> </ul>	Go to step 11.	Go to step 8.
Does the sensor status change while toggling the sensor?		

Action	Yes	No
<ul> <li>Step 8</li> <li>a Remove the optional tray left cover. See <u>"550-sheet tray left -</u> cover removal" on page 583.</li> <li>b Check the sensor cable on the optional tray controller board for proper connection.</li> </ul>	Go to step 10.	Go to step 9.
Is the cable properly connected?		
Step 9 Reseat the cable.	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10 Replace the sensor. See <u>"Sensor (550-sheet tray</u> pass-through) removal"on page 594.	Go to step 11.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 11</li> <li>Remove the tray 5 tray insert, and then check if the following components are functional and free of damage:</li> <li>Paper guides</li> </ul>	Go to step 13.	Go to step 12.
Lift plate		
<b>Note:</b> Move the components or turn gears to check for proper mechanisms.		
Are the tray insert and its components functional and free of damage?		
Step 12 Replace the tray insert.	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Check the tray 5 separator pad for improper installation, contamination, wear, and damage.	Go to step 15.	Go to step 14.
Is the separator pad properly installed and free of contamination, wear, and damage?		
Step 14 Reinstall, clean, or replace the separator pad. See <u>"Separator pad</u> <u>removal" on page 510</u> .	Go to step 15.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 15 <ul> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pass-through (tray 4)), and then touch Start.</li> </ul> </li> <li>Does the motor run?</li> </ul>	Go to step 18.	Go to step 16.
Step 16 Reseat the cable on the motor and on the optional tray controller board. Does the problem remain?	Go to step 17.	The problem is solved.
Step 17 Replace the motor. See <u>"Motor (550 sheet tray</u> transport) removal" on page 591. Does the problem remain?	Go to step 18.	The problem is solved.
<ul> <li>Step 18</li> <li>a Remove the left cover from the optional tray whose motor will be tested. See <u>"550-sheet tray left cover removal" on page 583</u>.</li> <li>b Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>c Select the motor (Pick (tray 5)), and then touch Start.</li> </ul>	Go to step 20.	Go to step 19.
Step 19 Reseat the cable on the motor and on the optional tray controller board. Does the problem remain?	Go to step 20.	The problem is solved.
<ul> <li>Step 20</li> <li>Check if the tray 5 paper feeder and its actuators are functional, properly installed, and free of damage.</li> <li>Are the paper feeder and its components functional, properly installed, and free of damage?</li> </ul>	Go to step 22.	Go to step 21.
<b>Step 21</b> Reinstall or replace the paper feeder. See <u>"550-sheet</u> tray <u>paper feeder removal" on page 591.</u> Does the problem remain?	Go to step 22.	The problem is solved.

Action	Yes	No
<b>Step 22</b> Make sure that the tray 5 controller board is properly installed. Reseat all the cables on the controller board.	Go to step 23.	The problem is solved.
Does the problem remain?		
<b>Step 23</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	Go to step 24.
Are the tray controller board and its connectors free of damage?		
Step 24 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### 280 paper jam messages

Error code	Description	Action
280.11	Paper remains detected at the sensor (ADF 1st scan) after the printer is turned on.	See <u>"Sensor (ADF 1st scan) static jam service check" on</u> page 206.
280.13	Paper never arrived at the sensor (ADF 1st scan).	See <u>"Sensor (ADF 1st scan): Paper failed to arrive service</u> <u>check" on page 207</u> .
280.15	Paper never cleared the sensor (ADF 1st scan).	See <u>"Sensor (ADF 1st scan): Paper failed to clear service</u> check" on page 209.

### Sensor (ADF 1st scan) static jam service check

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

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

## Sensor (ADF 1st scan): Paper failed to arrive service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the ADF paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples.		
Is the paper path free of obstructions and contaminations?		
Step 2	Go to step 3.	The problem is
Remove the obstructions and contaminations.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the condition of the ADF pick roller.		
Is the pick roller free from excess wear, contamination, and damage?		
Step 4	Go to step 9.	The problem is
Clean or replace the pick roller. See <u>"ADF maintenance kit</u> removal" on page 516.		solved.
Does the problem remain?		

Action	Yes	No
Step 5	Go to step 7.	Go to step 6.
Check the condition of the ADF feed belt.		
Is the feed belt free from excess wear, contamination, and damage?		
Step 6	Go to step 9.	The problem is
Clean or replace the feed belt. See <u>"ADF maintenance kit</u> removal" on page 516.		solved.
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
Check the condition of the ADF separator roller.		
Is the separator roller free from excess wear, contamination, and damage?		
Step 8	Go to step 9.	The problem is
Clean or replace the separator roller. See <u>"ADF maintenance kit</u> removal" on page 516.		solved.
Does the problem remain?		
Step 9	Go to step 12.	Go to step 10.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF 1st scan).		
Does the sensor status change while toggling the sensor?		
Step 10	Go to step 11.	The problem is
Check the sensor cable for proper connection, and then reseat if necessary.		solved.
Does the problem remain?		
Step 11	Go to step 12.	The problem is
Replace the sensor.		solved.
Does the problem remain?		
Step 12	Go to step 15.	Go to step 13.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Motor tests > ADF transport		
<b>b</b> Touch <b>Start</b> .		
Does the motor run?		

Action	Yes	No
<b>Step 13</b> Check the motor cable for proper connection, and then reseat if	Go to step 14.	The problem is solved.
necessary. Does the problem remain?		
Step 14	Go to step 15.	The problem is
Replace the motor.		solved.
Does the problem remain?		
Step 15	Go to step 16.	The problem is
Load an undamaged document into the ADF tray, and then perform a copy job.		solved.
Does the problem remain?		
Step 16	Contact the next	The problem is
Replace the ADF controller board.	level of support.	solved.
Does the problem remain?		

## Sensor (ADF 1st scan): Paper failed to clear service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the original document:		
• Check the document for contaminations such as pieces of tape, paper clips, and staples.		
<ul> <li>Check the document for damage such as creases, tears, holes, and excess wear.</li> </ul>		
Is the original document free of contaminations and damage?		
Step 2	Go to step 3.	The problem is
a Remove the contaminations or replace the damaged original document.		solved.
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Scanner quick feed		
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the ADF paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples.		
Is the paper path free of obstructions and contaminations?		

Action	Yes	No
Step 4	Go to step 5.	The problem is
Remove the obstructions and contaminations.		solved.
Does the problem remain?		
Step 5	Go to step 8.	Go to step 6.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF 1st scan).		
Does the sensor status change while toggling the sensor?		
Step 6	Go to step 7.	The problem is
Check the sensor cable for proper connection, and then reseat if		solved.
necessary.		
Does the problem remain?		
Step 7	Go to step 8.	The problem is
Replace the sensor.		solved.
Does the problem remain?		
Step 8	Go to step 11.	Go to step 9.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Motor tests > ADF transport		
<b>b</b> Touch <b>Start</b> .		
Does the motor run?		
Step 9	Go to step 10.	The problem is
Check the motor cable for proper connection, and then reseat if		solved.
necessary.		
Does the problem remain?		
Step 10	Go to step 11.	The problem is
Replace the motor.		solved.
Does the problem remain?		
Step 11	Go to step 12.	The problem is
Load an undamaged document into the ADF tray, and then perform		solved.
a copy job.		
Does the problem remain?		
Step 12	Contact the next	The problem is
Replace the ADF controller board.	level of support.	solved.
Does the problem remain?		

#### 281 paper jam messages

Error code	Description	Action
281.11	Paper remains detected at the sensor (ADF pick) after the printer is turned on.	See <u>"Sensor (ADF pick) static jam service check" on</u> page 211.
281.15	Paper never cleared the sensor (ADF pick).	See <u>"Sensor (ADF pick): Paper failed to clear service</u> check" on page 212.
281.16	Paper never arrived at the sensor (ADF pick).	See <u>"Sensor (ADF pick): ADF failed to pick service check"</u> on page 214.

#### Sensor (ADF pick) static jam service check

**Note:** Update the firmware after resolving the problem with this service check. When the printer is in the jammed state, the firmware cannot be updated. Resolve the jam error first before updating the firmware.

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the ADF paper path for paper jams and fragments		
Is the paper path free of jams and fragments?		
Step 2	Go to step 3.	The problem is
Remove the paper jams and fragments.		solved.
Does the problem remain?		
Step 3	Go to step 6.	Go to step 4.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF pick).		
Does the sensor status change while toggling the sensor?		
Step 4	Go to step 5.	The problem is
Check the sensor cable for proper connection, and then reseat if necessary.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
Replace the sensor.		solved.
Does the problem remain?		

Action	Yes	No
Step 6	Go to step 9.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF deskew).		
Does the sensor status change while toggling the sensor?		
Step 7	Go to step 8.	The problem is
Check the sensor cable for proper connection, and then reseat if necessary.		solved.
Does the problem remain?		
Step 8	Go to step 9.	The problem is
Replace the sensor.		solved.
Does the problem remain?		
Step 9	Contact the next	The problem is
Load an undamaged document into the ADF tray, and then perform a copy job.	level of support.	solved.
Does the problem remain?		

#### Sensor (ADF pick): Paper failed to clear service check

**Note:** Update the firmware after resolving the problem with this service check. When the printer is in the jammed state, the firmware cannot be updated. Resolve the jam error first before updating the firmware.

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the original document:		
• Check the document for contaminations such as pieces of tape, paper clips, and staples.		
<ul> <li>Check the document for damage such as creases, tears, holes, and excess wear.</li> </ul>		
Is the original document free of contaminations and damage?		
Step 2	Go to step 3.	The problem is
<b>a</b> Remove the contaminations or replace the damaged original document.		solved.
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Scanner quick feed		
Does the problem remain?		

Action	Yes	No
Step 3	Go to step 5.	Go to step 4.
Check the ADF paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples.		
Is the paper path free of obstructions and contaminations?		
<b>Step 4</b> Remove the obstructions and contaminations.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Scanner diagnostics &gt; Sensor tests</li> <li>b Find the sensor (ADF pick).</li> </ul>	Go to step 8.	Go to step 6.
Does the sensor status change while toggling the sensor?		
<b>Step 6</b> Check the sensor cable for proper connection, and then reseat if necessary.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Replace the sensor.	Go to step 8.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 8</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Scanner diagnostics &gt; Sensor tests</li> <li>b Find the sensor (ADF deskew).</li> </ul>	Go to step 11.	Go to step 9.
Does the sensor status change while toggling the sensor?		
<b>Step 9</b> Check the sensor cable for proper connection, and then reseat if necessary.	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10 Replace the sensor.	Go to step 11.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 11</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Scanner diagnostics &gt; Motor tests &gt; ADF pick</li> <li>b Touch Start.</li> </ul>	Go to step 14.	Go to step 12.
Does the motor run? Step 12 Check the motor cable for proper connection, and then reseat if necessary.	Go to step 13.	The problem is solved.
Does the problem remain?		
Step 13 Replace the motor.	Go to step 14.	The problem is solved.
Does the problem remain?		
<b>Step 14</b> Load an undamaged document into the ADF tray, and then perform a copy job.	Go to step 15.	The problem is solved.
Does the problem remain?		
Step 15 Replace the ADF controller board.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### Sensor (ADF pick): ADF failed to pick service check

**Note:** Update the firmware after resolving the problem with this service check. When the printer is in the jammed state, the firmware cannot be updated. Resolve the jam error first before updating the firmware.

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the document size matches the size set on the ADF tray guides.		
Does the document size match the size set on the tray?		
Step 2	Go to step 3.	The problem is
Change the paper size or adjust the size setting in the tray.		solved.
Does the problem remain?		

Action	Yes	No
Step 3	Go to step 5.	Go to step 4.
Check the ADF tray guides for damage.		
Are the tray guides free of damage?		
Step 4	Go to step 5.	The problem is
Replace the ADF tray. See <u>"ADF tray removal" on page 520</u> .		solved.
Does the problem remain?		
Step 5	Go to step 7.	Go to step 6.
Check the original document:		
• Check the document for contaminations such as pieces of tape, paper clips, and staples.		
<ul> <li>Check the document for damage such as creases, tears, holes, and excess wear.</li> </ul>		
Is the original document free of contaminations and damage?		
Step 6	Go to step 7.	The problem is
<b>a</b> Remove the contaminations or replace the damaged original document.		solved.
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Scanner quick feed		
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
Check the ADF paper path for paper fragments and contaminations such as pieces of tape, paper clips and staples.		
Is the paper path free of obstructions and contaminations?		
Step 8	Go to step 9.	The problem is
Remove the obstructions and contaminations.		solved.
Does the problem remain?		
Step 9	Go to step 11.	Go to step 10.
Check the condition of the ADF pick roller.		
Is the pick roller free from excess wear, contamination, and damage?		
Step 10	Go to step 15.	The problem is
Clean or replace the pick roller. See <u>"ADF maintenance kit</u> removal" on page 516.		solved.
Does the problem remain?		

Action	Yes	No
Step 11	Go to step 13.	Go to step 12.
Check the condition of the ADF feed belt.		
Is the feed belt free from excess wear, contamination, and damage?		
Step 12	Go to step 15.	The problem is
Clean or replace the feed belt. See <u>"ADF maintenance kit</u> removal" on page 516.		solved.
Does the problem remain?		
Step 13	Go to step 15.	Go to step 14.
Check the condition of the ADF separator roller.		
Is the separator roller free from excess wear, contamination, and damage?		
Step 14	Go to step 15.	The problem is
Clean or replace the separator roller. See <u>"ADF maintenance kit</u> removal" on page 516.		solved.
Does the problem remain?		
Step 15	Go to step 18.	Go to step 16.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF pick).		
Does the sensor status change while toggling the sensor?		
Step 16	Go to step 17.	The problem is
Check the sensor cable for proper connection, and then reseat if necessary.		solved.
Does the problem remain?		
Step 17	Go to step 18.	The problem is
Replace the sensor.		solved.
Does the problem remain?		
Step 18	Go to step 21.	Go to step 19.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF deskew).		
Does the sensor status change while toggling the sensor?		

Action	Yes	No
<b>Step 19</b> Check the sensor cable for proper connection, and then reseat if necessary.	Go to step 20.	The problem is solved.
Does the problem remain?		
Step 20 Replace the sensor.	Go to step 21.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 21</li> <li>a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics &gt; Motor tests &gt; ADF transport</li> <li>b Touch Start.</li> </ul>	Go to step 24.	Go to step 22.
<b>Step 22</b> Check the motor cable for proper connection, and then reseat if necessary.	Go to step 23.	The problem is solved.
Does the problem remain?		
Step 23 Replace the motor. Does the problem remain?	Go to step 24.	The problem is solved.
<b>Step 24</b> Load an undamaged document into the ADF tray, and then perform a copy job.	Go to step 25.	The problem is solved.
Does the problem remain?		
Step 25 Replace the ADF controller board.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### 282 paper jam messages

Error code	Description	Action
282.11	Paper remains detected at the sensor (ADF exit) after the printer is turned on.	See <u>"Sensor (ADF exit) static jam service check" on</u> page 218.
282.13	Paper never arrived at the sensor (ADF exit).	See <u>"Sensor (ADF exit): Paper failed to arrive service</u> <u>check" on page 219</u> .
282.15	Paper never cleared the sensor (ADF exit).	See <u>"Sensor (ADF exit): Paper failed to clear service check"</u> on page 221.

#### Sensor (ADF exit) static jam service check

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

### Sensor (ADF exit): Paper failed to arrive service check

Action	Yes	No
<ul> <li>Step 1</li> <li>Check the original document:</li> <li>Check the document for contaminations such as pieces of tape, paper clips, and staples.</li> <li>Check the document for damage such as creases, tears, holes, and excess wear.</li> </ul>	Go to step 3.	Go to step 2.
Is the original document free of contaminations and damage?		
<ul> <li>Step 2</li> <li>a Remove the contaminations or replace the damaged original document.</li> <li>b Enter the Diagnostics menu, and then navigate to: Scanner diagnostics &gt; Scanner quick feed</li> </ul>	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Check the ADF paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples.	Go to step 5.	Go to step 4.
Is the paper path free of obstructions and contaminations?		
<b>Step 4</b> Remove the obstructions and contaminations.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the condition of the ADF pick roller. Is the pick roller free from excess wear, contamination, and	Go to step 7.	Go to step 6.
damage?	Cata star 11	The gradulans is
Step 6 Clean or replace the pick roller. See <u>"ADF maintenance kit</u> <u>removal" on page 516</u> .	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the condition of the ADF feed belt.	Go to step 9.	Go to step 8.
Is the feed belt free from excess wear, contamination, and damage?		

Action	Yes	No
Step 8 Clean or replace the feed belt. See <u>"ADF maintenance kit</u> removal" on page 516.	Go to step 11.	The problem is solved.
Does the problem remain?		
Step 9 Check the condition of the ADF separator roller.	Go to step 11.	Go to step 10.
Is the separator roller free from excess wear, contamination, and damage?		
Step 10 Clean or replace the separator roller. See <u>"ADF maintenance kit</u> removal" on page 516.	Go to step 11.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 11</li> <li>a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics &gt; Sensor tests</li> <li>b Find the sensor (ADF media exit).</li> </ul>	Go to step 14.	Go to step 12.
Does the sensor status change while toggling the sensor?		
<b>Step 12</b> Check the sensor cable for proper connection, and then reseat if necessary.	Go to step 13.	The problem is solved.
Does the problem remain?		
Step 13 Replace the sensor.	Go to step 14.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 14</li> <li>a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics &gt; Motor tests &gt; ADF transport</li> <li>b Touch Start.</li> </ul>	Go to step 17.	Go to step 15.
Does the motor run?		
<b>Step 15</b> Check the motor cable for proper connection, and then reseat if necessary.	Go to step 16.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 16</b> Replace the motor.	Go to step 17.	The problem is solved.
Does the problem remain?		
Step 17	Go to step 18.	The problem is
Load an undamaged document into the ADF tray, and then perform a copy job.		solved.
Does the problem remain?		
Step 18	Contact the next	The problem is
Replace the ADF controller board.	level of support.	solved.
Does the problem remain?		

### Sensor (ADF exit): Paper failed to clear service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the original document:		
• Check the document for contaminations such as pieces of tape, paper clips, and staples.		
<ul> <li>Check the document for damage such as creases, tears, holes, and excess wear.</li> </ul>		
Is the original document free of contaminations and damage?		
Step 2	Go to step 3.	The problem is
<b>a</b> Remove the contaminations or replace the damaged original document.		solved.
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Scanner quick feed		
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the ADF paper path for paper fragments and		
contaminations such as pieces of tape, paper clips, and staples.		
Is the paper path free of obstructions and contaminations?		
Step 4	Go to step 5.	The problem is
Remove the obstructions and contaminations.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics &gt; Sensor tests</li> <li>b Find the sensor (ADF media exit).</li> </ul>	Go to step 8.	Go to step 6.
Does the sensor status change while toggling the sensor?		
<b>Step 6</b> Check the sensor cable for proper connection, and then reseat if necessary.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Replace the sensor.	Go to step 8.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 8</li> <li>a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics &gt; Motor tests &gt; ADF transport</li> <li>b Touch Start.</li> </ul>	Go to step 11.	Go to step 9.
Does the motor run?		
<b>Step 9</b> Check the motor cable for proper connection, and then reseat if necessary.	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10 Replace the motor. Does the problem remain?	Go to step 11.	The problem is solved.
<b>Step 11</b> Load an undamaged document into the ADF tray, and then perform a copy job.	Go to step 12.	The problem is solved.
Does the problem remain?		
Step 12 Replace the ADF controller board.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### 283 paper jam messages

Error code	Description	Action
283.11	Paper remains detected at the sensor (ADF deskew) after the printer is turned on.	See <u>"Sensor (ADF deskew) static jam service check" on</u> page 223.
283.13	Paper never arrived at the sensor (ADF deskew).	See <u>"Sensor (ADF deskew): Paper failed to arrive service</u> <u>check" on page 224</u> .
283.15	Paper never cleared the sensor (ADF deskew).	See <u>"Sensor (ADF deskew): Paper failed to clear service</u> <u>check" on page 226</u> .

### Sensor (ADF deskew) static jam service check

Action	Yes	Νο
Step 1	Go to step 3.	Go to step 2.
Check the ADF paper path for paper jams and fragments		
Is the paper path free of jams and fragments?		
Step 2	Go to step 3.	The problem is
Remove the paper jams and fragments.		solved.
Does the problem remain?		
Step 3	Go to step 6.	Go to step 4.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF deskew).		
Does the sensor status change while toggling the sensor?		
Step 4	Go to step 5.	The problem is
Check the sensor cable for proper connection, and then reseat if necessary.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
Replace the sensor.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 6</b> Load an undamaged document into the ADF tray, and then perform a copy job.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Sensor (ADF deskew): Paper failed to arrive service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the original document:		
<ul> <li>Check the document for contaminations such as pieces of tape, paper clips, and staples.</li> </ul>	,	
• Check the document for damage such as creases, tears, holes, and excess wear.		
Is the original document free of contaminations and damage?		
Step 2	Go to step 3.	The problem is
a Remove the contaminations or replace the damaged original document.		solved.
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Scanner quick feed		
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the ADF paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples.		
Is the paper path free of obstructions and contaminations?		
Step 4	Go to step 5.	The problem is
Remove the obstructions and contaminations.		solved.
Does the problem remain?		
Step 5	Go to step 7.	Go to step 6.
Check the condition of the ADF pick roller.		
Is the pick roller free from excess wear, contamination, and damage?		
Step 6	Go to step 11.	The problem is
Clean or replace the pick roller. See <u>"ADF maintenance kit</u> removal" on page 516.		solved.
Does the problem remain?		

Action	Yes	No
Step 7	Go to step 9.	Go to step 8.
Check the condition of the ADF feed belt.		
Is the feed belt free from excess wear, contamination, and damage?		
Step 8	Go to step 11.	The problem is
Clean or replace the feed belt. See <u>"ADF maintenance kit</u> <u>removal" on page 516</u> .		solved.
Does the problem remain?		
Step 9	Go to step 11.	Go to step 10.
Check the condition of the ADF separator roller.		
Is the separator roller free from excess wear, contamination, and damage?		
Step 10	Go to step 11.	The problem is
Clean or replace the separator roller. See <u>"ADF maintenance kit</u> removal" on page 516.		solved.
Does the problem remain?		
Step 11	Go to step 14.	Go to step 12.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF dekew).		
Does the sensor status change while toggling the sensor?		
Step 12	Go to step 13.	The problem is
Check the sensor cable for proper connection, and then reseat if necessary.		solved.
Does the problem remain?		
Step 13	Go to step 14.	The problem is
Replace the sensor.		solved.
Does the problem remain?		
Step 14	Go to step 17.	Go to step 15.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Motor tests > ADF pick		
<b>b</b> Touch <b>Start</b> .		
Does the motor run?		

Action	Yes	No
<b>Step 15</b> Check the motor cable for proper connection, and then reseat if	Go to step 16.	The problem is solved.
necessary.		
Does the problem remain?		
Step 16	Go to step 17.	The problem is
Replace the motor.		solved.
Does the problem remain?		
Step 17	Go to step 18.	The problem is
Loadan undamaged document into the ADF tray, and then perform a copy job.		solved.
Does the problem remain?		
Step 18	Contact the next	The problem is
Replace the ADF controller board.	level of support.	solved.
Does the problem remain?		

## Sensor (ADF deskew): Paper failed to clear service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the original document:		
• Check the document for contaminations such as pieces of tape, paper clips, and staples.		
<ul> <li>Check the document for damage such as creases, tears, holes, and excess wear.</li> </ul>		
Is the original document free of contaminations and damage?		
Step 2	Go to step 3.	The problem is
a Remove the contaminations or replace the damaged original document.		solved.
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Scanner quick feed		
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the ADF paper path for paper fragments and contaminations such as pieces of tape, paper clips, and staples.		
Is the paper path free of obstructions and contaminations?		

Action	Yes	No
<b>Step 4</b> Remove the obstructions and contaminations.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Scanner diagnostics &gt; Sensor tests</li> <li>b Find the sensor (ADF deskew).</li> </ul>	Go to step 8.	Go to step 6.
Does the sensor status change while toggling the sensor?		
<b>Step 6</b> Check the sensor cable for proper connection, and then reseat if necessary.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the sensor.	Go to step 8.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 8</li> <li>a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics &gt; Motor tests &gt; ADF deskew</li> <li>b Touch Start.</li> </ul>	Go to step 11.	Go to step 9.
Does the motor run?		
<b>Step 9</b> Check the motor cable for proper connection, and then reseat if necessary.	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10 Replace the motor.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Load an undamaged document into the ADF tray, and then perform a copy job.	Go to step 12.	The problem is solved.
Does the problem remain?		
<b>Step 12</b> Replace the ADF controller board.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# 288–289 paper jams

#### 288–289 paper jam messages

Error code	Description	Action
288.10	Jam is detected at the sensor (ADF multi-feed detect).	See <u>"Sensor (ADF multi-feed detect) jam service check" on</u> page 228.
289.01	The scanner controller communication failed.	See <u>"Scanner communication failure service check" on</u> page 368.

### Sensor (ADF multi-feed detect) jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the original document:		
• Check the document for contaminations such as pieces of tape, paper clips, and staples.		
• Check the document for damage such as creases, tears, holes, and excess wear.		
Is the original document free of contaminations and damage?		
Step 2	Go to step 3.	The problem is
<b>a</b> Remove the contaminations or replace the damaged original document.		solved.
<b>b</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Scanner quick feed		
Does the problem remain?		

Action	Yes	No
Step 3 Check the ADF paper path and sensor (A) for paper fragments and contaminations such as pieces of tape, paper clips and staples.	Go to step 5.	Go to step 4.
Is the paper path free of obstructions and contaminations? Step 4	Go to step 5.	The problem is
Remove the obstructions and contaminations. Does the problem remain?		solved.
Step 5 Check the condition of the ADF feed belt. Is the feed belt free from excess wear, contamination, and damage?	Go to step 7.	Go to step 6.
Step 6 Clean or replace the feed belt. See <u>"ADF maintenance kit</u> <u>removal" on page 516</u> . Does the problem remain?	Go to step 9.	The problem is solved.
Step 7 Check the condition of the ADF separator roller. Is the separator roller free from excess wear, contamination, and damage?	Go to step 9.	Go to step 8.
Step 8 Clean or replace the separator roller. See <u>"ADF maintenance kit</u> removal" on page 516.	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 9</b> Load an undamaged document into the ADF tray, and then perform a copy job.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Replace the sensor (ADF multi-feed detect).	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### 415–418 paper jams

### 415–418 paper jam messages

Error code	Description	Action
415.13	The bin 1 diverter plunger did not reach the sensor (OE diverter plunger) on time.	See <u>"Mailbox diverter drive jam service check" on</u> page 231.
415.15	The bin 1 diverter plunger did not clear the sensor (OE diverter plunger) on time.	
416.52	The bin 1 motor (mailbox transport) did not ramp up to the required level.	See <u>"Mailbox transport drive jam service check" on</u> page 233.
416.53	The bin 1 motor (mailbox transport) stalled.	
416.54	The bin 1 motor (mailbox transport) ran too slow.	
416.55	The bin 1 motor (mailbox transport) ran too fast.	
417.11	Paper remains detected at the bin 1 sensor (mailbox pass-through 1) after the printer is turned on.	See <u>"Sensor (mailbox pass-through 1) static jam service</u> <u>check" on page 234</u> .
417.13	Paper did not reach the bin 1 sensor (mailbox pass-through 1) on time.	See <u>"Sensor (mailbox pass-through 1) late-arriving or</u> late-leaving jam service check" on page 236.
417.15	Paper did not clear the bin 1 sensor (mailbox pass-through 1) on time.	
418.11	Paper remains detected at the bin 1 sensor (mailbox pass-through 2) after the printer is turned on.	See <u>"Sensor (mailbox pass-through 2) static jam service</u> check" on page 238.
418.13	Paper did not reach the bin 1 sensor (mailbox pass-through 2) on time.	See <u>"Sensor (mailbox pass-through 2) late-arriving or</u> late-leaving jam service check" on page 240.
418.15	Paper did not clear the bin 1 sensor (mailbox pass-through 2) on time.	

### Mailbox diverter drive jam service check

Action	Yes	No
<b>Step 1</b> Make sure that the optional bin is properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open the optional bin door, and then check the paper path and bin for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 7.	The problem is solved.
a Remove the mailbox left cover. See <u>"Mailbox left cover</u> removal" on page 679.		
<b>b</b> Reseat the cable on the motor (mailbox diverter) and on the mailbox controller board.		
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
Check the motor (mailbox diverter) for improper installation and damage.		
Is the motor properly installed and free of damage?		
Step 8	Go to step 9.	The problem is
Reinstall or replace the motor. See <u>"Motor (mailbox diverter)</u>		solved.
removal" on page 697.		

Action	Yes	No
<b>Step 9</b> Reseat the cable on the sensor (mailbox diverter plunger) and on the mailbox controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Check the sensor for improper installation, contamination, and damage.	Go to step 12.	Go to step 11.
Is the sensor properly installed and free of contamination and damage?		
Step 11 Reinstall or replace the sensor. See <u>"Sensor (mailbox diverter</u> plunger) removal" on page 693.	Go to step 12.	The problem is solved.
Does the problem remain?		
<b>Step 12</b> Check the mailbox diverter plunger for improper installation and damage.	Go to step 14.	Go to step 13.
Is the diverter plunger properly installed and free of damage?		
Step 13 Reinstall or replace the diverter plunger. See <u>"Mailbox diverter</u> plunger assembly removal" on page 688.	Go to step 14.	The problem is solved.
Does the problem remain?		
Step 14 Make sure that the controller board of the optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 15.	The problem is solved.
Does the problem remain?		
Step 15 Check the bin controller board and its connector pins for damage.	Contact the next level of support.	Go to step 16.
Are the bin controller board and its connectors free of damage?		
Step 16 Replace the bin controller board. See <u>"Mailbox controller board</u> removal" on page 692.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Mailbox transport drive jam service check

Action	Yes	No
<b>Step 1</b> Make sure that the optional bin is properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Open the optional bin door, and then check the paper path and bin for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Remove the mailbox left cover. See <u>"Mailbox left cover</u> removal" on page 679.</li> <li>b Reseat the cable on the motor (mailbox transport) and on the mailbox controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
Check the motor (mailbox transport) for improper installation and damage.		
Is the motor properly installed and free of damage?		
<b>Step 8</b> Reinstall or replace the motor. See <u>"Motor (mailbox transport)</u> <u>removal" on page 687</u> .	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 9	Go to step 11.	Go to step 10.
Check the mailbox transport drive gear for damage.		
Is the drive gear free of damage?		
Step 10	Go to step 11.	The problem is
Replace the gear. See <u>"Mailbox transport drive gear removal" on</u> page 683.		solved.
Does the problem remain?		
Step 11	Go to step 12.	The problem is
Make sure that the controller board of the optional bin is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 12	Contact the next	Go to step 13.
Check the bin controller board and its connector pins for damage.	level of support.	
Are the bin controller board and its connectors free of damage?		
Step 13	Contact the next	The problem is
Replace the bin controller board. See <u>"Mailbox controller board</u> removal" on page 692.	level of support.	solved.
Does the problem remain?		

## Sensor (mailbox pass-through 1) static jam service check

Action	Yes	No
<b>Step 1</b> Make sure that the optional bin is properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open the optional bin door, and then check the paper path and bin for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		

Action	Yes	Νο
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Remove the mailbox left cover. See <u>"Mailbox left cover</u> removal" on page 679.</li> <li>b Down with the filleness of the set of</li></ul>	Go to step 7.	The problem is solved.
<ul><li>b Reseat the cable of the sensor (mailbox pass-through 1) on the mailbox controller board.</li><li>Does the problem remain?</li></ul>		
Step 7	Go to step 9.	Go to step 8.
Check the sensor (mailbox pass-through 1) for improper installation, contamination, and damage.		
Is the sensor properly installed and free of contamination and damage?		
Step 8 Reinstall or replace the sensor. See <u>"Sensor (mailbox</u> pass-through) removal" on page 718.	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Make sure that the controller board of the optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Check the bin controller board and its connector pins for damage.	Contact the next level of support.	Go to step 11.
Are the bin controller board and its connectors free of damage?		
Step 11 Replace the bin controller board. See <u>"Mailbox controller board</u> removal" on page 692.	Contact the next level of support.	The problem is solved.
Does the problem remain?		
	4	

## Sensor (mailbox pass-through 1) late-arriving or late-leaving jam service check

Action	Yes	No
<b>Step 1</b> Make sure that the optional bin is properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Open the optional bin door, and then check the paper path and bin for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Remove the mailbox left cover. See <u>"Mailbox left cover</u> removal" on page 679.</li> <li>b Reseat the cable of the sensor (mailbox pass-through 1) on the mailbox controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Check the sensor (mailbox pass-through 1) for improper installation, contamination, and damage. Is the sensor properly installed and free of contamination and damage?	Go to step 9.	Go to step 8.
Step 8 Reinstall or replace the sensor. See <u>"Sensor (mailbox</u> pass-through) removal" on page 718. Does the problem remain?	Go to step 9.	The problem is solved.

<ul> <li>Step 9</li> <li>Check the mailbox rear door for improper installation and damage.</li> <li>Is the door properly installed and free of damage?</li> <li>Step 10</li> <li>Reinstall or replace the door. See <u>"Mailbox rear door removal" on</u></li> </ul>	Go to step 11. Go to step 11.	Go to step 10.
Is the door properly installed and free of damage? Step 10		
Step 10	Go to step 11.	
	Go to step 11.	
		The problem is solved.
<u>page 674</u> .		
Does the problem remain?		
Step 11	Go to step 13.	Go to step 12.
Check the mailbox middle diverter for improper installation and damage.		
Is the diverter properly installed and free of damage?		
Step 12	Go to step 13.	The problem is
Reinstall or replace the diverter. See <u>"Mailbox middle diverter</u> removal" on page 713.		solved.
Does the problem remain?		
Step 13	Go to step 15.	Go to step 14.
Check the mailbox top diverter for improper installation and damage.		
Is the diverter properly installed and free of damage?		
Step 14	Go to step 15.	The problem is
Reinstall or replace the diverter. See <u>"Mailbox top diverter</u> removal" on page 708.		solved.
Does the problem remain?		
Step 15	Go to step 16.	The problem is
Reseat the cable on the motor (mailbox transport) and on the mailbox controller board.		solved.
Does the problem remain?		
Step 16	Go to step 18.	Go to step 17.
Check the motor (mailbox transport) for improper installation and damage.		
Is the motor properly installed and free of damage?		
Step 17	Go to step 18.	The problem is
Reinstall or replace the motor. See <u>"Motor (mailbox transport)</u> removal" on page 687.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 18</b> Check the mailbox belts for improper installation, wear, and damage.	Go to step 20.	Go to step 19.
Are the belts properly installed and free of wear and damage?		
Step 19 Reinstall or replace the affected belt. See <u>"Mailbox belt removal"</u> on page 703.	Go to step 20.	The problem is solved.
Does the problem remain?		
Step 20 Make sure that the controller board of the optional bin is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 21.	The problem is solved.
Step 21	Contact the next	Go to step 22.
Check the bin controller board and its connector pins for damage.	level of support.	00 10 3100 22.
Are the bin controller board and its connectors free of damage?		
Step 22 Replace the bin controller board. See <u>"Mailbox controller board</u> <u>removal" on page 692</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (mailbox pass-through 2) static jam service check

Action	Yes	No
<b>Step 1</b> Make sure that the optional bin is properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open the optional bin door, and then check the paper path and bin for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output device adjustments/tests &gt; Output device sensor tests &gt; Mailbox 1</li> <li>b Find the sensor (Pass-through).</li> </ul>	Go to step 10.	Go to step 7.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 7</li> <li>a Remove the mailbox left cover. See <u>"Mailbox left cover</u> removal" on page 679.</li> <li>b Reseat the cable of the sensor (mailbox pass-through 2) on the mailbox controller board.</li> <li>Does the problem remain?</li> </ul>	Go to step 8.	The problem is solved.
Step 8	Go to step 10.	Go to step 9.
Check the sensor (mailbox pass-through 2) for improper installation, contamination, and damage. Is the sensor properly installed and free of contamination and damage?		
Step 9 Reinstall or replace the sensor. See <u>"Sensor (mailbox</u> pass-through) removal" on page 718.	Go to step 10.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 10</li> <li>a Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.</li> <li>b Make sure that the controller board of the optional bin is properly installed. Reseat all the cables on the controller board.</li> </ul>	Go to step 11.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 11</b> Check the bin controller board and its connector pins for damage.	Contact the next level of support.	Go to step 12.
Are the bin controller board and its connectors free of damage?		
Step 12 Replace the bin controller board. See <u>"Mailbox controller board</u> removal" on page 692.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (mailbox pass-through 2) late-arriving or late-leaving jam service check

Action	Yes	No
<b>Step 1</b> Make sure that the optional bin is properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Open the optional bin door, and then check the paper path and bin for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
<b>Step 3</b> Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output device adjustments/tests &gt; Output device sensor tests &gt; Mailbox 1</li> <li>b Find the sensor (Pass-through).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 10.	Go to step 7.
<ul> <li>Step 7</li> <li>a Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.</li> <li>b Reseat the cable of the sensor (mailbox pass-through 2) on the mailbox controller board.</li> <li>Does the problem remain?</li> </ul>	Go to step 8.	The problem is solved.
Step 8Check the sensor (mailbox pass-through 2) for improper installation, contamination, and damage.Is the sensor properly installed and free of contamination and damage?	Go to step 10.	Go to step 9.
Step 9 Reinstall or replace the sensor. See <u>"Sensor (mailbox</u> <u>pass-through) removal" on page 718</u> . Does the problem remain?	Go to step 10.	The problem is solved.
Step 10 Check the mailbox rear door for improper installation and damage. Is the door properly installed and free of damage?	Go to step 12.	Go to step 11.
Step 11 Reinstall or replace the door. See <u>"Mailbox rear door removal" on</u> page 674. Does the problem remain?	Go to step 12.	The problem is solved.
Step 12 Check the mailbox middle diverter for improper installation and damage. Is the diverter properly installed and free of damage?	Go to step 14.	Go to step 13.
Step 13 Reinstall or replace the diverter. See <u>"Mailbox middle diverter</u> removal" on page 713. Does the problem remain?	Go to step 14.	The problem is solved.

Action	Yes	No
Step 14	Go to step 16.	Go to step 15.
Check the mailbox top diverter for improper installation and damage.		
Is the diverter properly installed and free of damage?		
Step 15	Go to step 16.	The problem is
Reinstall or replace the diverter. See <u>"Mailbox top diverter</u> removal" on page 708.		solved.
Does the problem remain?		
Step 16	Go to step 17.	The problem is
<ul> <li>Remove the mailbox left cover. See <u>"Mailbox left cover</u> removal" on page 679.</li> </ul>		solved.
<b>b</b> Reseat the cable on the motor (mailbox transport) and on the mailbox controller board.		
Does the problem remain?		
Step 17	Go to step 19.	Go to step 18.
Check the motor (mailbox transport) for improper installation and damage.		
Is the motor properly installed and free of damage?		
Step 18	Go to step 19.	The problem is
Reinstall or replace the motor. See <u>"Motor (mailbox transport)</u> removal" on page 687.		solved.
Does the problem remain?		
Step 19	Go to step 21.	Go to step 20.
Check the mailbox belts for improper installation, wear, and damage.		
Are the belts properly installed and free of wear and damage?		
Step 20	Go to step 21.	The problem is
Reinstall or replace the affected belt. See <u>"Mailbox belt removal"</u> on page 703.		solved.
Does the problem remain?		
Step 21	Go to step 22.	The problem is
Make sure that the controller board of the optional bin is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		

Action	Yes	No
Step 22 Check the bin controller board and its connector pins for damage.	Contact the next level of support.	Go to step 23.
Are the bin controller board and its connectors free of damage?		
Step 23 Replace the bin controller board. See <u>"Mailbox controller board</u> removal" on page 692.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 420 paper jams

### 420 paper jam messages

Error code	Description	Action
420.11	Paper remains detected at the bin 1 sensor (staple finisher pass-through) after the printer is turned on.	See <u>"Sensor (staple finisher pass-through) static jam</u> service check" on page 244.
420.11	Paper remains detected at the bin 1 sensor (HPU leading edge) after the printer is turned on.	See <u>"Sensor (HPU leading edge) jam service check" on</u> page 252.
420.12	Paper going to bin 1 was detected earlier than expected at the sensor (staple finisher pass-through).	See <u>"Sensor (staple finisher pass-through) early- or</u> late-arriving jam service check" on page 246.
420.12	Paper going to bin 1 was detected earlier than expected at the sensor (HPU leading edge).	See <u>"Sensor (HPU leading edge) jam service check" on</u> page 252.
420.13	Paper going to bin 1 did not reach the sensor (staple finisher pass-through) on time.	See <u>"Sensor (staple finisher pass-through) early- or</u> late-arriving jam service check" on page 246.
420.13	Paper going to bin 1 did not reach the sensor (HPU leading edge) on time.	See <u>"Sensor (HPU leading edge) jam service check" on</u> page 252.
420.15	Paper going to bin 1 did not clear the sensor (staple finisher pass-through) on time.	See <u>"Sensor (staple finisher pass-through) late leaving jam</u> service check" on page 249.
420.15	Paper going to bin 1 did not clear the sensor (HPU leading edge) on time.	See <u>"Sensor (HPU leading edge) jam service check" on</u> page 252.
420.54	The bin 1 motor (staple finisher transport) ran too slow.	See <u>"Staple finisher transport drive failure service check"</u> on page 394.
420.54	The bin 1 motor (SHPF transport) ran too slow.	See <u>"SHPF transport drive jam service check" on</u> page 253.

Error code	Description	Action
420.55	The bin 1 motor (staple finisher transport) ran too fast.	See <u>"Staple finisher transport drive failure service check"</u> on page 394.
420.55	The bin 1 motor (SHPF transport) ran too fast.	See <u>"SHPF transport drive jam service check" on</u> page 253.

## Sensor (staple finisher pass-through) static jam service check

Action	Yes	No
Step 1	Go to step 2.	The problem is
Make sure that all the optional bins are properly installed.		solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 10.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Output device adjustments/tests > Output device sensor tests > Stapler		
<b>b</b> Find the sensor (Pass-through).		
Does the sensor status change while toggling the sensor?		

Action	Yes	No
<ul> <li>Step 7</li> <li>a Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>b Reseat the cable of the sensor (staple finisher pass-through) on the staple finisher controller board.</li> </ul>	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Check the sensor for improper installation, contamination, and damage.	Go to step 10.	Go to step 9.
Is the sensor properly installed and free of contamination and damage?		
Step 9 Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u> <u>stacker pass-through) removal" on page 663</u> . Does the problem remain?	Go to step 10.	The problem is solved.
<b>Step 10</b> Check the staple finisher rear door for improper installation and damage.	Go to step 12.	Go to step 11.
Is the door properly installed and free of damage?		
Step 11 Reinstall or replace the door. See <u>"Staple finisher/offset stacker</u> rear door removal" on page 604.	Go to step 12.	The problem is solved.
Does the problem remain?		
Step 12 Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 13.	The problem is solved.
Step 13	Contact the next	Go to step 14.
Check the affected controller board and its connector pins for damage.	level of support.	
Are the bin controller board and its connectors free of damage?		
Step 14 Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (staple finisher pass-through) early- or late-arriving jam service check

Go to step 2. Go to step 4.	The problem is solved.
Go to step 4.	
Go to step 4.	
	Go to step 3.
Go to step 4.	The problem is solved.
Go to step 5.	The problem is solved.
Go to step 6.	The problem is solved.
Go to step 10.	Go to step 7.
Go to step 8.	The problem is solved.
_	Go to step 5. Go to step 6. Go to step 10.

Action	Yes	No
Step 8 Check the sensor for improper installation, contamination, and damage. Is the sensor properly installed and free of contamination and	Go to step 10.	Go to step 9.
damage? Step 9	Go to step 10.	The problem is
Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u> stacker pass-through) removal" on page 663.	Go to step 10.	solved.
Does the problem remain?		
<b>Step 10</b> Check the staple finisher rear door for improper installation and damage.	Go to step 12.	Go to step 11.
Is the door properly installed and free of damage?		
Step 11 Reinstall or replace the door. See <u>"Staple finisher/offset stacker</u> rear door removal" on page 604.	Go to step 12.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 12</li> <li>a Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>b Reseat the cable on the sensor (staple finisher diverter plunger) and on the staple finisher controller board.</li> </ul>	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Check the sensor for improper installation, contamination, and damage.	Go to step 15.	Go to step 14.
Is the sensor properly installed and free of contamination and damage?		
Step 14 Rejectall or replace the concer See "Sensor (staple finisher (offset	Go to step 15.	The problem is solved.
Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u> stacker diverter plunger) removal" on page 616.		
Does the problem remain?		
<b>Step 15</b> Reseat the cable on the motor (staple finisher diverter) and on the staple finisher controller board.	Go to step 16.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 16</b> Check the motor (staple finisher diverter) for improper installation	Go to step 18.	Go to step 17.
and damage. Is the motor properly installed and free of damage?		
Step 17	Go to step 18.	The problem is
Reinstall or replace the motor. See <u>"Motor (staple finisher/offset</u> stacker diverter) removal" on page 615.		solved.
Does the problem remain?		
Step 18	Go to step 20.	Go to step 19.
Check the staple finisher diverter plunger for improper installation and damage.		
Is the diverter plunger properly installed and free of damage?		
Step 19	Go to step 20.	The problem is
Reinstall or replace the diverter plunger. See <u>"Staple finisher/</u> offset stacker diverter plunger assembly removal" on page 620.		solved.
Does the problem remain?		
Step 20	Go to step 21.	The problem is
Reseat the cable on the motor (staple finisher transport) and on the staple finisher controller board.		solved.
Does the problem remain?		
Step 21	Go to step 23.	Go to step 22.
Check the motor (staple finisher transport) for improper installation and damage.		
Is the motor properly installed and free of damage?		
Step 22	Go to step 23.	The problem is
Reinstall or replace the motor. See <u>"Motor (staple finisher/offset</u> stacker transport) removal" on page 616.		solved.
Does the problem remain?		
Step 23	Go to step 25.	Go to step 24.
Check the staple finisher drive gear for improper installation and damage.		
Is the drive gear properly installed and free of damage?		

Action	Yes	No
Step 24 Reinstall or replace the gear. See <u>"Staple finisher/offset stacker</u> drive gear assembly removal" on page 621.	Go to step 25.	The problem is solved.
Does the problem remain?		
<b>Step 25</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 26.	The problem is solved.
Does the problem remain?		
<b>Step 26</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 27.
Are the bin controller board and its connectors free of damage?		
Step 27 Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (staple finisher pass-through) late leaving jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output device adjustments/tests &gt; Output device sensor tests &gt; Stapler</li> <li>b Find the sensor (Pass-through).</li> </ul>	Go to step 10.	Go to step 7.
<ul> <li>Step 7</li> <li>a Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>b Reseat the cable of the sensor (staple finisher pass-through) on the staple finisher controller board.</li> <li>Does the problem remain?</li> </ul>	Go to step 8.	The problem is solved.
Step 8 Check the sensor for improper installation, contamination, and damage. Is the sensor properly installed and free of contamination and damage?	Go to step 10.	Go to step 9.
Step 9 Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u> stacker pass-through) removal" on page 663. Does the problem remain?	Go to step 10.	The problem is solved.
<b>Step 10</b> Check the staple finisher rear door for improper installation and damage.	Go to step 12.	Go to step 11.
Is the door properly installed and free of damage? <b>Step 11</b> Reinstall or replace the door. See <u>"Staple finisher/offset stacker</u> <u>rear door removal" on page 604</u> . Does the problem remain?	Go to step 12.	The problem is solved.

Action	Yes	No
Step 12	Go to step 14.	Go to step 13.
Check the tamper aligners for improper installation and damage.		
Are the tamper aligners properly installed and free of damage?		
Step 13	Go to step 14.	The problem is
Reinstall or replace the tamper aligner. See <u>"Staple finisher/offset</u> stacker tamper aligner removal" on page 647.		solved.
Does the problem remain?		
Step 14	Go to step 16.	Go to step 15.
Check the staple finisher drive gear for improper installation and damage.		
Is the drive gear properly installed and free of damage?		
Step 15	Go to step 16.	The problem is
Reinstall or replace the gear. See <u>"Staple finisher/offset stacker</u> drive gear assembly removal" on page 621.		solved.
Does the problem remain?		
Step 16	Go to step 17.	The problem is
Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 17	Contact the next	Go to step 18.
Check the affected controller board and its connector pins for damage.	level of support.	
Are the bin controller board and its connectors free of damage?		
Step 18	Contact the next	The problem is
Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.	level of support.	solved.
Does the problem remain?		

# Sensor (HPU leading edge) jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to: Output device adjustments/tests &gt; Output device sensor tests &gt; Staple, hole punch finisher</li> <li>b Findthesensor(Pass-through).</li> </ul>	Go to step 8.	Go to step 7.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 7</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.</li> <li>b Reseat the cable of the sensor (HPU leading edge) on the HPU controller board.</li> </ul>	Go to step 8.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 8</b> Make sure that the HPU controller board is properly installed. Reseat the cables on the HPU controller board.	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Check the HPU controller board and its connector pins for damage. Are the HPU controller board and its connectors free of damage?	Go to step 10.	Contact the next level of support.
	Cata stan 11	The graphers is
<b>Step 10</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 12.
Are the bin controller board and its connectors free of damage?		
Step 12 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# SHPF transport drive jam service check

Action	Yes	No
Step 1 Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.</li> <li>b Reseat the cable on the motor (SHPF transport) and on the SHPF controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the motor (SHPF transport) for improper installation and damage.	Go to step 9.	Go to step 8.
Is the motor properly installed and free of damage?		
Step 8 Reinstall or replace the motor. See <u>"Motor (SHPF transport)</u> <u>removal" on page 738</u> .	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Check the SHPF drive gear for improper installation and damage. Is the drive gear properly installed and free of damage?	Go to step 11.	Go to step 10.
Step 10 Reinstall or replace the gear. See <u>"SHPF drive gear assembly</u> removal" on page 741.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 12.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 12</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 13.
Are the bin controller board and its connectors free of damage?		
Step 13 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> <u>controller board removal" on page 730</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 421–429 paper jams

## 421–429 paper jam messages

Error code	Description	Action
421.13	The bin 1 left tamper did not reach the sensor (staple finisher left tamper) on time.	See <u>"Left tamper jam service check" on page 257</u> .
421.13	The bin 1 left tamper did not reach the sensor (SHPF left tamper) on time.	See <u>"SHPF left tamper jam service check" on page 271</u> .
421.15	The bin 1 left tamper did not clear the sensor (staple finisher left tamper) on time.	See <u>"Left tamper jam service check" on page 257</u> .
421.15	The bin 1 left tamper did not clear the sensor (SHPF left tamper) on time.	See <u>"SHPF left tamper jam service check" on page 271</u> .
422.13	The bin 1 right tamper did not reach the sensor (staple finisher right tamper) on time.	See <u>"Right tamper jam service check" on page 260</u>
422.13	The bin 1 right tamper did not reach the sensor (SHPF right tamper) on time.	See <u>"SHPF right tamper jam service check" on page 274</u> .
422.15	The bin 1 right tamper did not clear the sensor (staple finisher right tamper) on time.	See <u>"Right tamper jam service check" on page 260</u>
422.15	The bin 1 right tamper did not clear the sensor (SHPF right tamper) on time.	See <u>"SHPF right tamper jam service check" on page 274</u> .
423.13	The bin 1 ejector belt did not reach the sensor (staple finisher ejector) on time.	See <u>"Staple finisher ejector drive failure service check" on</u> page 396.
423.13	The bin 1 ejector belt did not reach the sensor (SHPF ejector) on time.	See <u>"SHPF ejector jam service check" on page 276</u> .
423.15	The bin 1 ejector belt did not clear the sensor (staple finisher ejector) on time.	See <u>"Staple finisher ejector drive failure service check" on page 396</u> .

Error code	Description	Action
423.15	The bin 1 ejector belt did not clear the sensor (SHPF ejector) on time.	See <u>"SHPF ejector jam service check" on page 276</u> .
423.51	The bin 1 motor (staple finisher ejector) did not turn off.	See <u>"Staple finisher ejector drive failure service check" on</u> page 396.
423.51	The bin 1 motor (SHPF ejector) did not turn off.	See <u>"SHPF ejector jam service check" on page 276</u> .
423.54	The bin 1 motor (staple finisher ejector) did not reach the required speed.	See <u>"Staple finisher ejector drive failure service check" on</u> page 396.
423.54	The bin 1 motor (SHPF ejector) did not reach the required speed.	See <u>"SHPF ejector jam service check" on page 276</u> .
423.55	The bin 1 motor (staple finisher ejector) went over the required speed.	See <u>"Staple finisher ejector drive failure service check" on</u> page <u>396</u> .
423.55	The bin 1 motor (SHPF ejector) went over the required speed.	See <u>"SHPF ejector jam service check" on page 276</u> .
424.13	The bin 1 paddle did not reach the sensor (staple finisher paddle) on time.	See <u>"Staple finisher paddle jam service check" on</u> page 263.
424.13	The bin 1 paddle did not reach the sensor (SHPF paddle) on time.	See <u>"SHPF paddle jam service check" on page 278</u> .
424.15	The bin 1 paddle did not clear the sensor (staple finisher paddle) on time.	See <u>"Staple finisher paddle jam service check" on</u> page 263.
424.15	The bin 1 paddle did not clear the sensor (SHPF paddle) on time.	See <u>"SHPF paddle jam service check" on page 278</u> .
425.13	The bin 1 bin clamp did not reach the sensor (staple finisher bin clamp) on time.	See <u>"Staple finisher ejector drive failure service check" on</u> page <u>396</u> .
425.13	The bin 1 bin clamp did not reach the sensor (SHPF bin clamp) on time.	See <u>"SHPF ejector jam service check" on page 276</u> .
425.15	The bin 1 bin clamp did not clear the sensor (staple finisher bin clamp) on time.	See <u>"Staple finisher ejector drive failure service check" on</u> page <u>396</u> .
425.15	The bin 1 bin clamp did not clear the sensor (SHPF bin clamp) on time.	See <u>"SHPF ejector jam service check" on page 276</u> .
427.13	The bin 1 diverter plunger did not reach the sensor (staple finisher diverter plunger) on time.	See <u>"Staple finisher diverter jam service check" on</u> page 265.
427.13	The bin 1 diverter plunger did not reach the sensor (SHPF diverter plunger) on time.	See <u>"SHPF diverter jam service check" on page 279</u> .
427.15	The bin 1 diverter plunger did not clear the sensor (staple finisher diverter plunger) on time.	See <u>"Staple finisher diverter jam service check" on</u> page 265.
427.15	The bin 1 diverter plunger did not clear the sensor (SHPF diverter plunger) on time.	See <u>"SHPF diverter jam service check" on page 279</u> .

Error code	Description	Action
428.13	The bin 1 stapler head did not reach its home position.	See <u>"Staple jam service check" on page 267</u> or <u>"SHPF</u> staple jam service check" on page 281.
428.15	The bin 1 stapler head did not clear its home position.	
429.11	Paper remains detected at the bin 1 sensor (staple throat paper present) after the printer is turned on.	See <u>"Sensor (staple throat paper present) jam service</u> <u>check" on page 269</u> .
429.11	Paper remains detected at the bin 1 sensor (SHPF staple throat paper present) after the printer is turned on.	See <u>"SHPF staple throat jam service check" on page 284</u> .
429.13	Paper going to bin 1 did not reach the sensor (staple throat paper present) on time.	See <u>"Sensor (staple throat paper present) jam service</u> <u>check" on page 269</u> .
429.13	Paper going to bin 1 did not reach the sensor (SHPF staple throat paper present) on time.	See <u>"SHPF staple throat jam service check" on page 284</u> .
429.14	Paper going to bin 1 cleared the sensor (staple throat paper present) earlier than expected.	See <u>"Sensor (staple throat paper present) jam service</u> <u>check" on page 269</u> .
429.14	Paper going to bin 1 cleared the sensor (SHPF staple throat paper present) earlier than expected.	See <u>"SHPF staple throat jam service check" on page 284</u> .
429.15	Paper going to bin 1 did not clear the sensor (staple throat paper present) on time.	See <u>"Sensor (staple throat paper present) jam service</u> <u>check" on page 269</u> .
429.15	Paper going to bin 1 did not clear the sensor (SHPF staple throat paper present) on time.	See <u>"SHPF staple throat jam service check" on page 284</u> .

### Left tamper jam service check

Action	Yes	No
Step 1 Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		

Remove the paper fragments and partially fed paper.         Does the problem remain?         Step 4         Clear the optional bin paper path rollers of any dirt and contamination.         Does the problem remain?	Go to step 4. Go to step 5. Go to step 6.	The problem is solved. The problem is solved. The problem is solved. The problem is solved.
Does the problem remain?       G         Step 4       G         Clear the optional bin paper path rollers of any dirt and contamination.       G         Does the problem remain?       G         Step 5       G         a Enter the Diagnostics menu, and then navigate to:       G         Output bin quick feed > Feed to all bins       G         b Touch Single or Continuous.       G		The problem is solved.
Step 4       Clear the optional bin paper path rollers of any dirt and contamination.       Clear the optional bin paper path rollers of any dirt and contamination.         Does the problem remain?       Step 5       Clear the Diagnostics menu, and then navigate to:         Output bin quick feed > Feed to all bins       Diagnostics menu.         b       Touch Single or Continuous.		solved. The problem is
Clear the optional bin paper path rollers of any dirt and contamination. Does the problem remain? Step 5 a Enter the Diagnostics menu, and then navigate to: Output bin quick feed > Feed to all bins b Touch Single or Continuous.		solved. The problem is
contamination. Does the problem remain? Step 5 a Enter the Diagnostics menu, and then navigate to: Output bin quick feed > Feed to all bins b Touch Single or Continuous.	Go to step 6.	The problem is
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	-
<ul> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	-
Output bin quick feed > Feed to all bins b Touch Single or Continuous.		solved.
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 10.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Output device adjustments/tests > Output device sensor tests > Stapler		
<b>b</b> Find the sensor (Tamper, left).		
Does the sensor status change while toggling the sensor?		
Step 7	Go to step 8.	The problem is
a Remove the staple finisher top cover. See <u>"Staple finisher/</u> offset stacker top cover removal" on page 608.		solved.
<b>b</b> Remove the staple finisher left cover. See <u>"Staple finisher/</u> <u>offset stacker left cover removal" on page 606</u> .		
<b>c</b> Reseat the cable on the sensor (staple finisher left tamper) and on the staple finisher controller board.		
Does the problem remain?		
Step 8	Go to step 10.	Go to step 9.
Check the sensor for improper installation, contamination, and damage.		
Is the sensor properly installed and free of contamination and damage?		
Step 9	Go to step 10.	The problem is
Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u> stacker left tamper) removal" on page 643.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 10</li> <li>a Remove the staple finisher top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.</li> <li>b Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>c Reseat the cable on the motor (staple finisher left tamper) and on the staple finisher controller board.</li> <li>Does the problem remain?</li> </ul>	Go to step 11.	The problem is solved.
Step 11	Go to step 13.	Go to step 12.
Check the motor (staple finisher left tamper) for improper installation and damage. Is the motor properly installed and free of damage?		
Step 12	Go to step 13.	The problem is
Reinstall or replace the motor. See <u>"Motor (staple finisher/offset</u> <u>stacker left tamper) removal" on page 639</u> .		solved.
Does the problem remain?		
Step 13	Go to step 15.	Go to step 14.
Check the tamper drive belt for improper installation, wear, and damage.		
Is the drive belt properly installed and free of wear and damage?		
Step 14 Reinstall or replace the drive belt. See <u>"Staple finisher/Offset</u> <u>stacker tamper drive belt removal" on page 640</u> . Does the problem remain?	Go to step 15.	The problem is solved.
Step 15	Go to step 17.	Go to step 16.
Check the tamper aligner for improper installation and damage.		Go to step 10.
Is the tamper aligner properly installed and free of damage?		
Step 16 Reinstall or replace the tamper aligner. See <u>"Staple finisher/offset</u> <u>stacker tamper aligner removal" on page 647</u> .	Go to step 17.	The problem is solved.
Does the problem remain?		
Step 17	Go to step 19.	Go to step 18.
Check the tamper gear for improper installation and damage.		
Is the gear properly installed and free of damage?		

Action	Yes	No
Step 18 Reinstall or replace the gear. See <u>"Staple finisher/Offset stacker</u> tamper drive belt removal" on page 640.	Go to step 19.	The problem is solved.
Does the problem remain?		
<b>Step 19</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 20.	The problem is solved.
Does the problem remain?		
<b>Step 20</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 21.
Are the bin controller board and its connectors free of damage?		
Step 21 Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Right tamper jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
<b>Step 3</b> Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to: Output device adjustments/tests &gt; Output device sensor tests &gt; Stapler</li> <li>b Find the sensor (Tamper, right).</li> </ul>	Go to step 10.	Go to step 7.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 7</li> <li>a Remove the staple finisher top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.</li> <li>b Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>c Reseat the cable on the sensor (staple finisher right tamper) and on the staple finisher controller board.</li> </ul>	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Check the sensor for improper installation, contamination, and damage. Is the sensor properly installed and free of contamination and damage?	Go to step 10.	Go to step 9.
Step 9 Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u> <u>stacker right tamper) removal" on page 641</u> .	Go to step 10.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 10</li> <li>a Remove the staple finisher top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.</li> <li>b Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>c Reseat the cable on the motor (staple finisher right tamper) and on the staple finisher controller board.</li> <li>Does the problem remain?</li> </ul>	Go to step 11.	The problem is solved.

Step 11         Check the motor (staple finisher right tamper) for improper installation and damage.         Is the motor properly installed and free of damage?         Step 12         Reinstall or replace the motor. See <u>"Motor (staple finisher/offset stacker left tamper) removal" on page 639</u> .         Does the problem remain?         Step 13         Check the tamper drive belt for improper installation, wear, and damage.	Go to step 13.Go to step 13.Go to step 13.Go to step 15.Go to step 15.	Go to step 12.         The problem is solved.         Go to step 14.         The problem is solved.
Step 12         Reinstall or replace the motor. See <u>"Motor (staple finisher/offset</u> stacker left tamper) removal" on page 639.         Does the problem remain?         Step 13         Check the tamper drive belt for improper installation, wear, and	Go to step 15.	Solved. Go to step 14. The problem is
Reinstall or replace the motor. See <u>"Motor (staple finisher/offset</u> <u>stacker left tamper) removal" on page 639</u> . Does the problem remain? <b>Step 13</b> Check the tamper drive belt for improper installation, wear, and	Go to step 15.	Solved. Go to step 14. The problem is
Step 13 Check the tamper drive belt for improper installation, wear, and		The problem is
Check the tamper drive belt for improper installation, wear, and		The problem is
	Go to step 15.	
Is the drive belt properly installed and free of wear and damage?	Go to step 15.	
Step 14 Reinstall or replace the drive belt. See <u>"Staple finisher/Offset</u> stacker tamper drive belt removal" on page 640.		
Does the problem remain?		
Step 15 Check the tamper aligner for improper installation and damage.	Go to step 17.	Go to step 16.
Is the tamper aligner properly installed and free of damage?		
Step 16 Reinstall or replace the tamper aligner. See <u>"Staple finisher/offset</u> stacker tamper aligner removal" on page 647.	Go to step 17.	The problem is solved.
Does the problem remain?		
Step 17 Check the tamper gear for improper installation and damage.	Go to step 19.	Go to step 18.
Is the gear properly installed and free of damage?		
Step 18Reinstall or replace the gear. See <u>"Staple finisher/Offset stacker</u> tamper drive belt removal" on page 640.	Go to step 19.	The problem is solved.
Does the problem remain?		
<b>Step 19</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 20.	The problem is solved.

Action	Yes	No
<b>Step 20</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 21.
Are the bin controller board and its connectors free of damage?		
Step 21 Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Staple finisher paddle jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
<b>Step 3</b> Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output device adjustments/tests &gt; Output device sensor tests &gt; Stapler</li> <li>b Find the sensor (Paddle).</li> </ul>	Go to step 10.	Go to step 7.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 7</li> <li>a Remove the staple finisher top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.</li> <li>b Reseat the cable on the sensor (staple finisher paddle) and on the staple finisher controller board.</li> </ul>	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Check the sensor for improper installation, contamination, and damage.	Go to step 10.	Go to step 9.
Is the sensor properly installed and free of contamination and damage?		
Step 9 Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u> <u>stacker paddle) removal" on page 638</u> . Does the problem remain?	Go to step 10.	The problem is solved.
Step 10	Go to step 11.	The problem is
<ul> <li>a Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>b Reseat the cable on the motor (staple finisher paddle) and on the staple finisher controller board.</li> <li>Does the problem remain?</li> </ul>		solved.
Step 11	Go to step 13.	Go to step 12.
Check the motor (staple finisher paddle) for improper installation and damage.	55 to step 15.	50 to step 12.
Is the motor properly installed and free of damage?		
Step 12 Reinstall or replace the motor. See <u>"Motor (staple finisher/offset</u> stacker paddle) removal" on page 612.	Go to step 13.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 13</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 14.	The problem is solved.
Step 14 Check the affected controller board and its connector pins for damage. Are the bin controller board and its connectors free of damage?	Contact the next level of support.	Go to step 15.
Step 15 Replace the bin controller board. See <u>"Staple finisher/offset</u> <u>stacker controller board removal" on page 610</u> . Does the problem remain?	Contact the next level of support.	The problem is solved.

## Staple finisher diverter jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>b Reseat the cable on the sensor (staple finisher diverter plunger) and on the staple finisher controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the sensor for improper installation, contamination, and damage.	Go to step 9.	Go to step 8.
Is the sensor properly installed and free of contamination and damage?		
Step 8 Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u> <u>stacker diverter plunger) removal</u> " on page 616.	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Reseat the cable on the motor (staple finisher diverter) and on the staple finisher controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Check the motor (staple finisher diverter) for improper installation and damage.	Go to step 12.	Go to step 11.
Is the motor properly installed and free of damage?		
Step 11 Reinstall or replace the motor. See <u>"Motor (staple finisher/offset</u> <u>stacker diverter) removal" on page 615</u> .	Go to step 12.	The problem is solved.
Does the problem remain?		
<b>Step 12</b> Check the staple finisher diverter plunger for improper installation and damage.	Go to step 14.	Go to step 13.
Is the diverter plunger properly installed and free of damage?		
Step 13 Reinstall or replace the diverter plunger. See <u>"Staple finisher/</u> offset stacker diverter plunger assembly removal" on page <u>620</u> .	Go to step 14.	The problem is solved.
Does the problem remain?		

Yes	No
Go to step 15.	The problem is solved.
Contact the next level of support.	Go to step 16.
Contact the next level of support.	The problem is solved.
	Go to step 15. Contact the next level of support. Contact the next

# Staple jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output device adjustments/tests &gt; Staple test</li> <li>b Select a staple job.</li> </ul>	Go to step 12.	Go to step 7.
<ul> <li>Does the finisher staple?</li> <li>Step 7 <ul> <li>a Remove the staple finisher right cover. See <u>"Stapler right cover removal" on page 664</u>.</li> <li>b Make sure that the staple cartridge is properly installed.</li> <li>c Clear the staple unit of any obstructions.</li> <li>d Reseat the staple unit cables.</li> </ul> </li> <li>Does the problem remain?</li> </ul>	Go to step 8.	The problem is solved.
Step 8         Check the staple unit for damage.         Is the staple unit free of damage?	Go to step 10.	Go to step 9.
<b>Step 9</b> Replace the staple unit. See <u>"Staple unit removal" on page 666</u> . Does the problem remain?	Go to step 10.	The problem is solved.
<ul> <li>Step 10</li> <li>a Clear the staple cartridge holder of any obstructions.</li> <li>b Check the staple cartridge holder for improper installation and damage.</li> <li>Is the cartridge holder properly installed and free of damage?</li> </ul>	Go to step 12.	Go to step 11.
Step 11         Reinstall or replace the staple cartridge holder. See <u>"Staple</u> cartridge holder removal" on page 729.         Does the problem remain?	Go to step 12.	The problem is solved.
Step 12 Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 13.	The problem is solved.
Step 13         Check the affected controller board and its connector pins for damage.         Are the bin controller board and its connectors free of damage?	Contact the next level of support.	Go to step 14.

Action	Yes	No
Step 14 Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Sensor (staple throat paper present) jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 10.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Output device adjustments/tests > Output device sensor tests > Stapler		
<b>b</b> Find the sensor (Stapler throat, right).		
Does the sensor status change while toggling the sensor?		

Action	Yes	No
<ul> <li>Step 7</li> <li>a Remove the staple unit. See <u>"Staple unit removal" on page 666</u>.</li> <li>b Reseat the cable on the sensor (staple throat paper present) and on the staple finisher controller board.</li> </ul>	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Check the sensor for improper installation, contamination, and damage.	Go to step 10.	Go to step 9.
Is the sensor properly installed and free of contamination and damage?		
Step 9 Reinstall or replace the sensor. See <u>"Sensor (staple throat paper</u> present) removal" on page 669.	Go to step 10.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 10</li> <li>a Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>b Reseat the staple finisher ejector assembly cable on the staple finisher controller board.</li> </ul>	Go to step 11.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 11</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> <li>Does the staple finisher ejector assembly operate properly?</li> </ul>	Go to step 14.	Go to step 12.
Step 12	Go to step 14.	Go to step 13.
Check the ejector assembly for damage.		
Is the ejector assembly free of damage?		
Step 13 Replace the staple finisher ejector assembly. See <u>"Staple finisher/</u> offset stacker ejector assembly removal" on page 657.	Go to step 14.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 14</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 15.	The problem is solved.
Step 15 Check the affected controller board and its connector pins for damage. Are the bin controller board and its connectors free of damage?	Contact the next level of support.	Go to step 16.
Step 16         Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# SHPF left tamper jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 6	Go to step 10.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Output device adjustments/tests > Output device sensor tests > Staple, hole punch finisher		
<b>b</b> Find the sensor (Tamper, left).		
Does the sensor status change while toggling the sensor?		
Step 7	Go to step 8.	The problem is
a Remove the SHPF top cover. See <u>"Staple, hole punch finisher</u> top cover removal" on page 728.		solved.
<b>b</b> Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> <u>left cover removal" on page 724</u> .		
<b>c</b> Reseat the cable on the sensor (SHPF left tamper) and on the SHPF controller board.		
Does the problem remain?		
Step 8	Go to step 10.	Go to step 9.
Check the sensor for improper installation, contamination, and damage.		
Is the sensor properly installed and free of contamination and damage?		
Step 9	Go to step 10.	The problem is
Reinstall or replace the sensor.		solved.
Does the problem remain?		
Step 10	Go to step 11.	The problem is
a Remove the SHPF top cover. See <u>"Staple, hole punch finisher</u> top cover removal" on page 728.		solved.
<b>b</b> Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> <u>left cover removal" on page 724</u> .		
<b>c</b> Reseat the cable on the motor (SHPF left tamper) and on the SHPF controller board.		
Does the problem remain?		
Step 11	Go to step 13.	Go to step 12.
Check the motor (SHPF left tamper) for improper installation and damage.		
Is the motor properly installed and free of damage?		
Step 12	Go to step 13.	The problem is
Reinstall or replace the motor.		solved.
Does the problem remain?		

Action	Yes	No
Step 13	Go to step 15.	Go to step 14.
Check the tamper drive belt for improper installation, wear, and damage.		
Is the drive belt properly installed and free of wear and damage?		
Step 14	Go to step 15.	The problem is
Reinstall or replace the drive belt.		solved.
Does the problem remain?		
Step 15	Go to step 17.	Go to step 16.
Check the tamper aligner for improper installation and damage.		
Is the tamper aligner properly installed and free of damage?		
Step 16	Go to step 17.	The problem is
Reinstall or replace the tamper aligner.		solved.
Does the problem remain?		
Step 17	Go to step 19.	Go to step 18.
Check the tamper gear for improper installation and damage.		
Is the gear properly installed and free of damage?		
Step 18	Go to step 19.	The problem is
Reinstall or replace the gear.		solved.
Does the problem remain?		
Step 19	Go to step 20.	The problem is
Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 20	Contact the next	Go to step 21.
Check the affected controller board and its connector pins for damage.	level of support.	
Are the bin controller board and its connectors free of damage?		
Step 21	Contact the next	The problem is
Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	level of support.	solved.
Does the problem remain?		

## SHPF right tamper jam service check

Action	Yes	No
Step 1 Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to: Output device adjustments/tests &gt; Output device sensor tests &gt; Staple, hole punch finisher</li> <li>b Find the sensor (Tamper, left).</li> </ul>	Go to step 10.	Go to step 7.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 7</li> <li>a Remove the SHPF top cover. See <u>"Staple, hole punch finisher</u> top cover removal" on page 728.</li> <li>b Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u>"</li> </ul>	Go to step 8.	The problem is solved.
<ul> <li>left cover removal" on page 724.</li> <li>c Reseat the cable on the sensor (SHPF left tamper) and on the SHPF controller board.</li> </ul>		
Does the problem remain?		

Action	Yes	No
Step 8	Go to step 10.	Go to step 9.
Check the sensor for improper installation, contamination, and damage.		
Is the sensor properly installed and free of contamination and damage?		
Step 9	Go to step 10.	The problem is
Reinstall or replace the sensor.		solved.
Does the problem remain?		
Step 10	Go to step 11.	The problem is
a Remove the SHPF top cover. See <u>"Staple, hole punch finisher</u> top cover removal" on page 728.		solved.
<b>b</b> Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> <u>left cover removal" on page 724</u> .		
<b>c</b> Reseat the cable on the motor (SHPF left tamper) and on the SHPF controller board.		
Does the problem remain?		
Step 11	Go to step 13.	Go to step 12.
Check the motor (SHPF left tamper) for improper installation and damage.		
Is the motor properly installed and free of damage?		
Step 12	Go to step 13.	The problem is
Reinstall or replace the motor.		solved.
Does the problem remain?		
Step 13	Go to step 15.	Go to step 14.
Check the tamper drive belt for improper installation, wear, and damage.		
Is the drive belt properly installed and free of wear and damage?		
Step 14	Go to step 15.	The problem is
Reinstall or replace the drive belt.		solved.
Does the problem remain?		
Step 15	Go to step 17.	Go to step 16.
Check the tamper aligner for improper installation and damage.		
Is the tamper aligner properly installed and free of damage?		

Action	Yes	No
Step 16	Go to step 17.	The problem is
Reinstall or replace the tamper aligner.		solved.
Does the problem remain?		
Step 17	Go to step 19.	Go to step 18.
Check the tamper gear for improper installation and damage.		
Is the gear properly installed and free of damage?		
Step 18	Go to step 19.	The problem is
Reinstall or replace the gear.		solved.
Does the problem remain?		
Step 19	Go to step 20.	The problem is
Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 20	Contact the next	Go to step 21.
Check the affected controller board and its connector pins for damage.	level of support.	
Are the bin controller board and its connectors free of damage?		
Step 21	Contact the next	The problem is
Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	level of support.	solved.
Does the problem remain?		

## SHPF ejector jam service check

Action	Yes	No
Step 1 Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		

Action	Yes	No
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> <u>left cover removal" on page 724</u>.</li> <li>b Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 8.
Are the bin controller board and its connectors free of damage?		
<b>Step 8</b> Replace the bin controller board. See <u>"Staple, hole punch finisher</u> <u>controller board removal" on page 730</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## SHPF paddle jam service check

Action	Yes	No
Step 1 Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to: Output device adjustments/tests &gt; Output device sensor tests &gt; Staple, hole punch finisher</li> <li>b Find the sensor (Paddle).</li> </ul>	Go to step 10.	Go to step 7.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 7</li> <li>a Remove the SHPF top cover. See <u>"Staple, hole punch finisher</u> top cover removal" on page 728.</li> <li>b Reseat the cable on the sensor (SHPF paddle) and on the SHPF controller board.</li> </ul>	Go to step 8.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 8</b> Check the sensor for improper installation, contamination, and damage.	Go to step 10.	Go to step 9.
Is the sensor properly installed and free of contamination and damage?		
Step 9 Reinstall or replace the sensor. See <u>"Sensor (SHPF paddle)</u> <u>removal" on page 761</u> .	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.	Go to step 11.	The problem is solved.
<b>b</b> Reseat the cable on the motor (SHPF paddle) and on the SHPF controller board.		
Does the problem remain?		
<b>Step 11</b> Check the motor (SHPF paddle) for improper installation and damage.	Contact the next level of support.	Go to step 12.
Is the motor properly installed and free of damage?		
Step 12 Reinstall or replace the motor. See <u>"Motor (SHPF paddle)</u> <u>removal" on page 731</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### SHPF diverter jam service check

Action	Yes	No
Step 1 Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		

Action	Yes	No
<b>Step 3</b> Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
Step 6a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.	Go to step 7.	The problem is solved.
<b>b</b> Reseat the cable on the motor (SHPF diverter plunger) and on the SHPF controller board.		
Does the problem remain?		
<b>Step 7</b> Check the motor (SHPF diverter plunger) for improper installation and damage.	Go to step 9.	Go to step 8.
Is the motor properly installed and free of damage?		
Step 8 Reinstall or replace the motor. See <u>"Motor (SHPF diverter plunger)</u> <u>removal" on page 737</u> .	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Reseat the cable on the sensor (SHPF diverter plunger) and on the SHPF controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Check the sensor for improper installation, contamination, and damage.	Go to step 12.	Go to step 11.
Is the sensor properly installed and free of contamination and damage?		

Action	Yes	No
Step 11 Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u> stacker diverter plunger) removal" on page 616.	Go to step 12.	The problem is solved.
Does the problem remain?		
Step 12	Go to step 14.	Go to step 13.
Check the SHPF diverter plunger for improper installation and damage.		
Is the diverter plunger properly installed and free of damage?		
Step 13	Go to step 14.	The problem is
Reinstall or replace the diverter plunger. See <u>"SHPF diverter</u> plunger assembly removal" on page 740.		solved.
Does the problem remain?		
Step 14	Go to step 15.	The problem is
Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 15	Contact the next	Go to step 16.
Check the affected controller board and its connector pins for damage.	level of support.	
Are the bin controller board and its connectors free of damage?		
Step 16	Contact the next	The problem is
Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	level of support.	solved.
Does the problem remain?		

#### SHPF staple jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		

Action	Yes	No
<b>Step 3</b> Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is solved.
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
<ul><li>Output bin quick feed &gt; Feed to all bins</li><li>b Touch Single or Continuous.</li></ul>		
Does the problem remain?		
Step 6	Go to step 13.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Output device adjustments > Staple test		
<b>b</b> Select the staple job for the right staple unit.		
Does the finisher staple?		
Step 7	Go to step 8.	The problem is
a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> <u>left cover removal" on page 724</u> .		solved.
<b>b</b> Make sure that the SHPF staple cartridge door close limit switch is properly installed. Reseat the cable on the SHPF controller board.		
Does the problem remain?		
Step 8	Go to step 10.	Go to step 9.
Check the limit switch and its connector pins for damage.		
Are the limit switch and its connectors free of damage?		
Step 9	Go to step 10.	The problem is
Replace the limit switch. See <u>"SHPF staple cartridge door close</u> limit switch removal" on page 731.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 10</li> <li>a Remove the SHPF right cover. See <u>"Staple, hole punch finisher right cover removal" on page 726</u>.</li> <li>b Make sure that the staple cartridge is properly installed.</li> <li>c Clear the staple unit of any obstructions.</li> <li>d Reseat the staple unit cables.</li> <li>Does the problem remain?</li> </ul>	Go to step 11.	The problem is solved.
Step 11 Check the staple unit for damage. Is the staple unit free of damage?	Go to step 13.	Go to step 12.
Step 12 Replace the staple unit. See <u>"Right staple unit removal" on</u> page 751. Does the problem remain?	Go to step 13.	The problem is solved.
Step 13         Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.         Does the problem remain?	Go to step 14.	The problem is solved.
Step 14         Check the affected controller board and its connector pins for damage.         Are the bin controller board and its connectors free of damage?	Contact the next level of support.	Go to step 15.
Step 15         Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.         Does the problem remain?	Contact the next level of support.	The problem is solved.

## SHPF staple throat jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to: Output device adjustments/tests &gt; Output device sensor tests &gt; Staple, hole punch finisher</li> <li>b Find the sensor (Stapler throat, right).</li> <li>Does the sensor status change while toggling the sensor?</li> </ul>	Go to step 10.	Go to step 7.
Step 7	Go to step 8.	The problem is
<ul> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u><u>left cover removal" on page 724</u>.</li> <li>b Remove the right staple unit. See "<u>Right staple unit removal"</u><u>on page 751</u>.</li> </ul>	-	solved.
<b>c</b> Reseat the cable on the sensor (SHPF staple throat paper present) and on the SHPF controller board.		
Does the problem remain?		

Action	Yes	No
<b>Step 8</b> Check the sensor for improper installation, contamination, and damage.	Go to step 10.	Go to step 9.
Is the sensor properly installed and free of contamination and damage?		
Step 9 Reinstall or replace the sensor. See <u>"Sensor (SHPF staple throat</u> paper present) removal" on page 754.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 12.
Are the bin controller board and its connectors free of damage?		
Step 12 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 430–434 paper jams

## 430–434 paper jam messages

Error code	Description	Action
430.19	The bin 1 right stapler head failed to prime.	See <u>"Staple jam service check" on page 267</u> or <u>"SHPF</u> stapler head prime failure service check" on page 286.
431.13	The bin 1 elevator bin did not reach the sensor (SHPF elevator, top) on time.	See <u>"SHPF elevator top jam service check" on page 288</u> .
431.15	The bin 1 elevator bin did not clear the sensor (SHPF elevator, top) on time.	
431.54	The bin 1 motor (SHPF elevator) did not reach the required speed.	
431.55	The bin 1 motor (SHPF elevator) went over the required speed.	

Error code	Description	Action
432.13	The bin 1 left stapler head did not reach its home position.	See <u>"SHPF left staple jam service check" on page 290</u> .
432.15	The bin 1 left stapler head did not clear its home position.	
433.13	Paper going to bin 1 did not reach the left sensor (SHPF staple throat paper present) on time.	See <u>"SHPF left staple throat jam service check" on</u> page 292.
433.14	Paper going to bin 1 cleared the left sensor (SHPF staple throat paper present) earlier than expected.	
433.15	Paper going to bin 1 did not clear the left sensor (SHPF staple throat paper present) on time.	
434.19	The bin 1 left stapler head failed to prime.	See "SHPF left staple jam service check" on page 290.

## SHPF stapler head prime failure service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output device adjustments &gt; Staple test</li> <li>b Select the staple job for the right staple unit.</li> </ul>	Go to step 10.	Go to step 7.
Does the finisher staple?		
<ul> <li>Step 7</li> <li>a Remove the SHPF right cover. See <u>"Staple, hole punch finisher right cover removal" on page 726</u>.</li> <li>b Make sure that the staple cartridge is properly installed.</li> <li>c Clear the staple unit of any obstructions.</li> <li>d Reseat the staple unit cables.</li> </ul>	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Check the staple unit for damage.	Go to step 10.	Go to step 9.
Is the staple unit free of damage?		
Step 9 Replace the staple unit. See <u>"Right staple unit removal" on</u> page 751.	Go to step 10.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 10</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.</li> <li>b Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.</li> </ul>	Go to step 11.	The problem is solved.
Does the problem remain?		
Step 11 Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 12.
Are the bin controller board and its connectors free of damage?		
Step 12 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> <u>controller board removal" on page 730</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## SHPF elevator top jam service check

Action	Yes	No
Step 1	Go to step 2.	The problem is
Make sure that all the optional bins are properly installed.		solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 10.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Output device adjustments/tests > Output device sensor tests > Staple, hole punch finisher		
<b>b</b> Find the sensor (Bin elevator top).		
Does the sensor status change while toggling the sensor?		
Step 7	Go to step 8.	The problem is solved.
a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.		
<ul> <li><b>b</b> Reseat the cable of the sensor (SHPF elevator, top) on the SHPF controller board.</li> </ul>		
Does the problem remain?		

Action	Yes	No
<b>Step 8</b> Check the sensor for improper installation, contamination, and damage.	Go to step 10.	Go to step 9.
Is the sensor properly installed and free of contamination and damage?		
Step 9 Reinstall or replace the sensor. See <u>"Staple, hole punch finisher</u> <u>elevator drive removal" on page 747</u> .	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Reseat the cable on the motor (SHPF elevator).	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Check the SHPF elevator drive for improper installation and damage.	Go to step 13.	Go to step 12.
Is the elevator drive properly installed and free of damage?		
<b>Step 12</b> Reinstall or replace the elevator drive. See <u>"Staple, hole punch</u> <u>finisher elevator drive removal" on page 747</u> . Does the problem remain?	Go to step 13.	The problem is solved.
Step 13	Go to step 14.	The problem is
<ul> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.</li> </ul>		solved.
<b>b</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.		
Does the problem remain?		
<b>Step 14</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 15.
Are the bin controller board and its connectors free of damage?		
Step 15 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## SHPF left staple jam service check

Action	Yes	No
Step 1	Go to step 2.	The problem is
Make sure that all the optional bins are properly installed.		solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
s the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
a Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 13.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
<ul><li>Output device adjustments &gt; Staple test</li><li>b Select the staple job for the left staple unit.</li></ul>		
Does the finisher staple?		
Step 7	Go to step 8.	The problem is
a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.	-	solved.
<b>b</b> Make sure that the SHPF staple cartridge door close limit switch is properly installed. Reseat the cable on the SHPF controller board.		
Does the problem remain?		
	Go to step 10.	Go to step 9.
Step 8		1
Step 8 Check the limit switch and its connector pins for damage.		

Action	Yes	No
Step 9 Replace the limit switch. See <u>"SHPF staple cartridge door close</u> <u>limit switch removal" on page 731</u> .	Go to step 10.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 10</li> <li>a Make sure that the staple cartridge is properly installed.</li> <li>b Clear the staple unit of any obstructions.</li> <li>c Reseat the staple unit cables.</li> </ul>	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Check the staple unit for damage.	Go to step 13.	Go to step 12.
Is the staple unit free of damage?		
Step 12 Replace the staple unit. See <u>"Left staple unit removal" on</u> page 734.	Go to step 13.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 13</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.</li> <li>b Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.</li> </ul>	Go to step 14.	The problem is solved.
Does the problem remain?		
<b>Step 14</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 15.
Are the bin controller board and its connectors free of damage?		
Step 15 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> <u>controller board removal" on page 730</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## SHPF left staple throat jam service check

Action	Yes	No
Step 1	Go to step 2.	The problem is
Make sure that all the optional bins are properly installed.		solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 10.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Output device adjustments/tests > Output device sensor tests > Staple, hole punch finisher		
<b>b</b> Find the sensor (Stapler throat, left).		
Does the sensor status change while toggling the sensor?		
Step 7	Go to step 8.	The problem is solved.
a Remove the left staple unit. See <u>"Left staple unit removal" on</u> page 734.		
<b>b</b> Reseat the cable on the sensor (SHPF staple throat paper		
present) and on the SHPF controller board.		
Does the problem remain?		

Action	Yes	No
<b>Step 8</b> Check the sensor for improper installation, contamination, and damage.	Go to step 10.	Go to step 9.
Is the sensor properly installed and free of contamination and damage?		
Step 9 Reinstall or replace the sensor. See <u>"Left staple unit removal" on</u> page 734.	Go to step 10.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 10</li> <li>a Remove the left staple unit. See <u>"Left staple unit removal" on page 734</u>.</li> <li>b Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.</li> </ul>	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 12.
Are the bin controller board and its connectors free of damage?		
Step 12 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> <u>controller board removal" on page 730</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# 435–438 paper jams

# 435–438 paper jam messages

Error code	Description	Action
435.13	The bin 1 stack height actuator did not reach the sensor (staple finisher stack height) on time.	See <u>"Staple finisher stack jam service check" on page</u> <u>294</u> .
435.13	The bin 1 stack height actuator did not reach the sensor (SHPF stack height) on time.	See <u>"SHPF stack jam service check" on page 297</u> .

Error code	Description	Action
435.15	The bin 1 stack height actuator did not clear the sensor (staple finisher stack height) on time.	See <u>"Staple finisher stack jam service check" on page</u> <u>294</u> .
435.15	The bin 1 stack height actuator did not clear the sensor (SHPF stack height) on time.	See <u>"SHPF stack jam service check" on page 297</u> .
438.xx	A mechanical reset timeout occurred at the staple finisher or SHPF.	See <u>"Staple finisher timeout error service check" on</u> page 296 or <u>"SHPF timeout error service check" on</u> page 299.

## Staple finisher stack jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
<b>Step 3</b> Remove the paper fragments and partially fed paper. Does the problem remain?	Go to step 4.	The problem is solved.
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination. Does the problem remain?	Go to step 5.	The problem is solved.
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.

Action	Yes	No
<ul> <li>Step 6</li> <li>a Remove the staple finisher left cover. See <u>"Staple finisher/</u><u>offset stacker left cover removal" on page 606</u>.</li> <li>b Reseat the cable on the motor (staple finisher stack height) and on the staple finisher controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the staple finisher stack height assembly and its motor for improper installation and damage.	Go to step 9.	Go to step 8.
Is the stack height assembly properly installed and free of damage?		
Step 8 Reinstall or replace the stack height assembly. See <u>"Staple</u> <u>finisher/offset stacker stack height assembly removal" on</u> <u>page 649</u> .	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Reseat the cable on the sensor (staple finisher stack height) and on the staple finisher controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Check the sensor for improper installation, contamination, and damage.	Go to step 12.	Go to step 11.
Is the sensor properly installed and free of contamination and damage?		
<b>Step 11</b> Reinstall or replace the sensor. Does the problem remain?	Go to step 12.	The problem is solved.
Step 12	Go to step 13.	The problem is
Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	55 to step 15.	solved.
Does the problem remain?		
<b>Step 13</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 14.
Are the bin controller board and its connectors free of damage?		

Action	Yes	No
Step 14 Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Staple finisher timeout error service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 7.	The problem is
a Remove the staple finisher left cover. See <u>"Staple finisher/</u> offset stacker left cover removal" on page 606.		solved.
<b>b</b> Reseat the staple finisher interface cable on the controller board.		
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 7</li> <li>a Remove the staple finisher. See <u>"Optional staple finisher/offset stacker removal" on page 603</u>.</li> <li>b Check the connector and pins of the staple finisher interface cable for damage.</li> <li>c Check the staple finisher interface cable for improper installation.</li> </ul>	Go to step 9.	Go to step 8.
Is the interface cable properly installed and free of damage? <b>Step 8</b> Reinstall or replace the interface cable. See <u>"Staple finisher/offset</u> <u>stacker interface cable removal" on page 612</u> . Does the problem remain?	Go to step 9.	The problem is solved.
Step 9 Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 10.	The problem is solved.
Step 10         Check the affected controller board and its connector pins for damage.         Are the bin controller board and its connectors free of damage?	Contact the next level of support.	Go to step 11.
Step 11 Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610. Does the problem remain?	Contact the next level of support.	The problem is solved.

## SHPF stack jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		

Action	Yes	No
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 10.	Go to step 7.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Output device adjustments/tests > Output device sensor tests > Staple, hole punch finisher		
<b>b</b> Find the sensor (Compiler stack height).		
Does the sensor status change while toggling the sensor?		
Step 7	Go to step 8.	The problem is
a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.		solved.
<b>b</b> Reseat the cable on the sensor (SHPF stack height) and on the SHPF controller board.		
Does the problem remain?		
Step 8	Go to step 10.	Go to step 9.
Check the sensor for improper installation, contamination, and damage.		
Is the sensor properly installed and free of contamination and damage?		
Step 9	Go to step 10.	The problem is
Reinstall or replace the sensor.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 10</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.</li> <li>b Reseat the cable on the motor (SHPF stack height) and on the SHPF controller board.</li> </ul>	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Check the SHPF stack height assembly and its motor for improper installation and damage.	Go to step 13.	Go to step 12.
Is the stack height assembly properly installed and free of damage?		
Step 12 Reinstall or replace the stack height assembly.	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 14.	The problem is solved.
Does the problem remain?		0.1.1.15
Step 14 Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 15.
Are the bin controller board and its connectors free of damage?		
Step 15 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

#### SHPF timeout error service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		

Action	Yes	No
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> <u>left cover removal" on page 724</u>.</li> <li>b Reseat the staple, hole punch finisher interface cable on the SHPF controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
a Remove the staple, hole punch finisher. See <u>"Optional staple,</u> <u>hole punch finisher removal" on page 723</u> .		
<b>b</b> Check the connector and pins of the staple, hole punch finisher interface cable for damage.		
<b>c</b> Check the staple, hole punch finisher interface cable for improper installation.		
Is the interface cable properly installed and free of damage?		
Step 8 Reinstall or replace the interface cable. See <u>"Staple, hole punch</u> <u>finisher interface cable removal" on page 736</u> .	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Make sure that the HPU controller board is properly installed. Reseat the cables on the HPU controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 10</b> Check the HPU controller board and its connector pins for damage.	Go to step 11.	Contact the next level of support.
Are the HPU controller board and its connectors free of damage?		
<b>Step 11</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 12.	The problem is solved.
Does the problem remain?		
<b>Step 12</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 13.
Are the bin controller board and its connectors free of damage?		
Step 13 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> <u>controller board removal" on page 730</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# 44y paper jams

## 440–444 paper jam messages

Error code	Description	Action
440.11	Paper remains detected at the bin 1 sensor (HPU leading edge) after the printer is turned on.	See <u>"Sensor (HPU leading edge) hole punch jam service</u> <u>check" on page 302</u> .
440.13	During a hole punch job, paper did not reach the bin 1 sensor (HPU leading edge) on time.	
440.15	During a hole punch job, paper did not clear the bin 1 sensor (HPU leading edge) on time.	
440.19	During a hole punch job, too many sheets were detected at bin 1.	
441.11	Paper remains detected at the bin 1 sensor (HPU trailing edge) after the printer is turned on.	See <u>"Sensor (HPU trailing edge) jam service check" on</u> page 303.
441.13	Paper did not reach the bin 1 sensor (HPU trailing edge) on time.	
441.15	Paper did not clear the bin 1 sensor (HPU trailing edge) on time.	

Error code	Description	Action
442.13	Paper did not reach the bin 1 sensor (SHPF light array) on time.	See <u>"Sensor (SHPF light array) jam service check" on</u> page 305.
442.15	Paper did not clear the bin 1 sensor (SHPF light array) on time.	
442.19	A bin 1 sensor (SHPF light array) error occurred.	
444.13	The bin 1 hole punch did not reach its home position on time.	See <u>"SHPF hole punch drive failure service check" on</u> page <u>307</u> .
444.15	The bin 1 hole punch did not clear its home position on time.	
444.19	A bin 1 hole punch homing error occurred.	

#### Sensor (HPU leading edge) hole punch jam service check

Action	Yes	No
Step 1 Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
Step 3 Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 6         a Remove the SHPF left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u> .         b Make some that the URL sector land is group which the U	Go to step 7.	The problem is solved.
<b>b</b> Make sure that the HPU controller board is properly installed. Reseat the cables on the HPU controller board.		
Does the problem remain?		
Step 7	Go to step 8.	Contact the next
Check the HPU controller board and its connector pins for damage.		level of support.
Are the HPU controller board and its connectors free of damage?		
Step 8	Go to step 9.	The problem is
Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 9	Contact the next	Go to step 10.
Check the affected controller board and its connector pins for damage.	level of support.	
Are the bin controller board and its connectors free of damage?		
Step 10	Contact the next	The problem is
Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	level of support.	solved.
Does the problem remain?		

## Sensor (HPU trailing edge) jam service check

Action	Yes	No
Step 1 Make sure that all the entional bins are preperly installed	Go to step 2.	The problem is solved.
Make sure that all the optional bins are properly installed.		
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
<ul> <li>Step 6</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.</li> <li>b Reseat the staple, hole punch finisher interface cable on the SHPF controller board.</li> <li>Does the problem remain?</li> </ul>	Go to step 7.	The problem is solved.
Step 7	Go to step 9.	Go to step 8.
<ul> <li>a Remove the staple, hole punch finisher. See <u>"Optional staple, hole punch finisher removal" on page 723</u>.</li> <li>b Check the connector and pins of the staple, hole punch finisher interface cable for damage.</li> <li>c Check the staple, hole punch finisher interface cable for improper installation.</li> <li>Is the interface cable properly installed and free of damage?</li> </ul>		
Step 8	Go to step 9.	The problem is
Reinstall or replace the interface cable. See <u>"Staple, hole punch</u> finisher interface cable removal" on page 736. Does the problem remain?		solved.
Step 9	Go to step 10.	The problem is
Make sure that the cable J13 from the SHPF controller board is properly connected with the cable J14 on the HPU controller board.		solved.
Warning—Potential Damage: Cable J14 and cable J16 on the HPU controller board are not interchangeable.		
Does the problem remain?		
<b>Step 10</b> Make sure that the HPU controller board is properly installed. Reseat the cables on the HPU controller board.	Go to step 11.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 11</b> Check the HPU controller board and its connector pins for damage.	Go to step 12.	Contact the next level of support.
Are the HPU controller board and its connectors free of damage?		
<b>Step 12</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 14.
Are the bin controller board and its connectors free of damage?		
Step 14 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> <u>controller board removal" on page 730</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Sensor (SHPF light array) jam service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
<b>Step 3</b> Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.</li> <li>b Reseat the staple, hole punch finisher interface cable on the SHPF controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>a Remove the staple, hole punch finisher. See <u>"Optional staple, hole punch finisher removal" on page 723</u>.</li> <li>b Check the connector and pins of the staple, hole punch finisher interface cable for damage.</li> <li>c Check the staple, hole punch finisher interface cable for improper installation.</li> </ul>	Go to step 9.	Go to step 8.
Is the interface cable properly installed and free of damage?		
Step 8 Reinstall or replace the interface cable. See <u>"Staple, hole punch</u> finisher interface cable removal" on page 736.	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Make sure that the HPU controller board is properly installed. Reseat the cables on the HPU controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Check the HPU controller board and its connector pins for damage.	Go to step 11.	Contact the next level of support.
Are the HPU controller board and its connectors free of damage?		
<b>Step 11</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 12.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 12</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 13.
Are the bin controller board and its connectors free of damage?		
Step 13 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# SHPF hole punch drive failure service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.	Go to step 4.	Go to step 3.
Is the paper path free of paper fragments and partially fed paper?		
<b>Step 3</b> Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.</li> <li>b Reseat the staple, hole punch finisher interface cable on the SHPF controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>a Remove the staple, hole punch finisher. See <u>"Optional staple, hole punch finisher removal" on page 723</u>.</li> <li>b Check the connector and pins of the staple, hole punch finisher interface cable for damage.</li> <li>c Check the staple, hole punch finisher interface cable for improper installation.</li> <li>Is the interface cable properly installed and free of damage?</li> </ul>	Go to step 9.	Go to step 8.
<b>Step 8</b> Reinstall or replace the interface cable. See <u>"Staple, hole punch</u> <u>finisher interface cable removal" on page 736</u> .	Go to step 9.	The problem is solved.
Does the problem remain?	Calla star 10	The systellaws is
Step 9 Reseat the cable on the motor (hole punch).	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Make sure that the HPU controller board is properly installed. Reseat the cables on the HPU controller board.	Go to step 11.	The problem is solved.
Does the problem remain? Step 11	Co to stop 12	Contact the next
Check the HPU controller board and its connector pins for damage.	Go to step 12.	level of support.
Are the HPU controller board and its connectors free of damage?		
<b>Step 12</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 14.
Are the bin controller board and its connectors free of damage?		

Action	Yes	No
Step 14	Contact the next	The problem is
Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	level of support.	solved.
Does the problem remain?		

# User attendance messages

## 10–32 user attendance errors

#### 10–32 user attendance messages

Error code	Description	Action
10.01	Too many vinyl labels printed successively.	Reduce the vinyl labels printed. Print less than 50
10.02	Too many vinyl labels printed successively.	vinyl labels in a row, or print at least one vinyl label per six plain paper pages.
31.40	A toner cartridge smart chip or sensor communication problem was detected.	See <u>"Toner cartridge smart chip error service</u> <u>check" on page 310</u> .
31.60	An imaging unit smart chip or sensor communication problem was detected.	See <u>"Imaging unit smart chip error service</u> check" on page 311.
31.80	A fuser smart chip or sensor communication problem was detected.	See <u>"Fuser smart chip error service check" on</u> page <u>313</u> .
32.40A	The toner cartridge is unsupported.	See <u>"Unsupported third party supply service</u>
32.40B	Letter code descriptions:	<u>check" on page 314</u> .
32.40C	• A—Unsupported memory map version in the smart chip	
32.40E	• B—Failed capacity class/model compatibility	
32.40F	<ul> <li>check</li> <li>C—Failed OEM check</li> <li>E—The supply is on the revoked list</li> <li>F—The toner cartridge is MICR, and the</li> </ul>	
	firmware release does not support MICR	
32.40D	The toner cartridge is incorrect or unsupported. Letter code description: • D—Failed SWE marriage check	See <u>"Unsupported toner cartridge service</u> check" on page 315.
32.40Z	<ul><li>The toner cartridge is incorrect or unsupported.</li><li>Letter code description:</li><li>Z—Failed barrel shutter sensor</li></ul>	See <u>"Toner cartridge shutter error service</u> check" on page 317.
32.60	The imaging unit is unsupported.	See <u>"Unsupported third party supply service</u>
32.80	The fuser is unsupported.	check" on page 314.

# Toner cartridge smart chip error service check

Action	Yes	No
Step 1 Check if the printer is using a genuine and supported Sharp	Go to step 3.	Go to step 2.
toner cartridge. <b>Note:</b> If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.		
Is the printer using a genuine and supported toner cartridge?		
Step 2 Install a genuine Sharp toner cartridge.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Make sure that the toner cartridge is properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Remove the toner cartridge, and then install a different unit.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Remove the left cover. See <u>"Left cover removal" on page</u> 444.</li> </ul>	Go to step 6.	The problem is solved.
<b>b</b> Remove the right cover. See <u>"Right cover removal" on</u> page 461.		
<b>c</b> Reseat the cable at the sensor (toner smart chip) and the cable J66 on the controller board.		
Does the problem remain?		
<b>Step 6</b> Check the sensor (toner smart chip) and its contact for damage.	Go to step 8.	Go to step 7.
Is the sensor and its contact free of damage?		
Step 7 Replace the sensor (toner smart chip). See <u>"Sensor (toner smart</u> <u>chip) removal" on page 458</u> .	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8	Go to step 10.	Go to step 9.
Check the RIP firmware version.		
Does the RIP firmware have the latest version?		

Action	Yes	No
<b>Step 9</b> Update the RIP firmware.	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10 Restart the printer.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Check the printer firmware version. Does the printer firmware have the latest version?	Contact the next level of support.	Go to step 12.
Step 12 Update the printer firmware.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Imaging unit smart chip error service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the printer is using a genuine and supported Sharp imaging unit.		
Is the printer using a genuine and supported imaging unit?		
Step 2	Go to step 3.	The problem is
Install a genuine and supported imaging unit.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that the imaging unit is properly installed.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Remove the imaging unit, and then install a different unit.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 5</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Reseat the cables of the high voltage contacts guide on the HVPS and the controller board.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<b>Step 6</b> Check the high voltage contacts and its cables for damage.	Go to step 8.	Go to step 7.
Are the contacts and its cables free of damage?		
<b>Step 7</b> Replace the high voltage contacts guide. See <u>"High voltage</u> contacts guide removal" on page 474.	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Check the RIP firmware version.	Go to step 10.	Go to step 9.
Does the RIP firmware have the latest version?		
Step 9 Update the RIP firmware.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Restart the printer. Does the problem remain?	Go to step 11.	The problem is solved.
Step 11	Contact the next	Go to step 12.
Check the printer firmware version.	level of support.	00 to step 12.
Does the printer firmware have the latest version?		
<b>Step 12</b> Update the printer firmware.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Fuser smart chip error service check

Action	Yes	No
<b>Step 1</b> Check if the printer is using a genuine and supported Sharp fuser.	Go to step 3.	Go to step 2.
Is the printer using a genuine and supported fuser?		
Step 2 Install a genuine and supported fuser.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Make sure that the fuser is properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 4</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the cable J60 on the controller board for proper connection.</li> </ul>	Go to step 6.	Go to step 5.
Is the cable properly connected?		
<b>Step 5</b> Reseat the cable.	Go to step 6.	The problem is solved.
Does the problem remain?		
Step 6 Replace the fuser. See <u>"Fuser removal" on page 498</u> .	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the RIP firmware version.	Go to step 9.	Go to step 8.
Does the RIP firmware have the latest version?		
Step 8 Update the RIP firmware.	Go to step 9.	The problem is solved.
Does the problem remain?	Coto star 10	
Step 9 Restart the printer.	Go to step 10.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 10 Check the printer firmware version.	Contact the next level of support.	Go to step 11.
Does the printer firmware have the latest version?		
<b>Step 11</b> Update the printer firmware.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Unsupported third party supply service check

Action	Yes	No
<ul> <li>Step 1</li> <li>Check whether third party supplies are used.</li> <li>toner cartridge</li> <li>imaging unit</li> <li>fuser</li> </ul>	Go to step 2.	Contact the next level of support.
Are third party supplies used?		
<b>Step 2</b> Replace the third party supply (toner cartridge, imaging unit, or fuser) with a genuine Sharp part.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Unsupported toner cartridge service check

Action	Yes	No
Step 1	Go to step 2.	Contact the next
Check whether the correct toner cartridge is used.		level of support.
Notes:		
• The original or first toner cartridge used is called an SWE toner cartridge. SWE stands for <i>shipped with equipment</i> . The SWE toner cartridge cannot be installed to another printer.		
<ul> <li>If the SWE toner cartridge is used by another printer, then a 32.40D error occurs.</li> </ul>		
Is the printer using the incorrect toner cartridge?		
Step 2	Contact the next	The problem is
Do either of the following:	level of support.	solved.
<ul> <li>Find the SWE toner cartridge, and then reinstall it.</li> </ul>		
<ul> <li>Replace the cartridge with the correct and genuine Sharp part.</li> </ul>		
Does the problem remain?		

# 4y user attendance errors

#### 41–44 user attendance messages

Error code	Description	Action
41.60	The toner cartridge and imaging unit are mismatched.	See <u>"Incompatible Sharp supply service</u> check" on page <u>316</u> .
42.xy	The toner cartridge and printer regions are mismatched.	See <u>"Region mismatch service check" on</u> page 316.
43.40	A toner cartridge shutter error was detected.	See <u>"Toner cartridge shutter error service</u> <u>check" on page 317</u> .
44.40	The toner cartridge and printer are mismatched.	See <u>"Incompatible Sharp supply service</u>
44.60	The imaging unit and printer are mismatched.	<u>check" on page 316</u> .

# Incompatible Sharp supply service check

Action	Yes	No
<ul> <li>Step 1</li> <li>Check whether the Sharp supplies used are genuine and compatible with the printer model.</li> <li>toner cartridge</li> <li>imaging unit</li> <li>fuser</li> </ul>	Contact the next level of support.	Go to step 2.
Are the Sharp supplies used genuine and compatible?		
<b>Step 2</b> Replace the incorrect Sharp supply (toner cartridge, imaging unit, or fuser).	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Region mismatch service check

Action	Yes	No
Step 1	Contact the next	Go to step 2.
Check if the toner cartridge has the correct region that matches the printer region.	level of support.	
The <i>.xy</i> error code value represents the required region number, where <i>x</i> indicates the printer's region number and <i>y</i> for the cartridge's region number.		
O—Worldwide or Undefined region		
<ul> <li>1—North America (United States, Canada)</li> </ul>		
<ul> <li>2—European Economic Area, Western Europe, Nordic countries, Switzerland</li> </ul>		
• 3—Asia Pacific		
• 4—Latin America		
• 5—Rest of Europe, Middle East, Africa		
<ul> <li>6—Australia, New Zealand</li> </ul>		
9—Invalid region		
Note: To find the region settings of the printer and toner cartridge, print the print quality test pages. From the control panel, navigate to: Settings > Troubleshooting > Print Quality Test Pages.		
Do the regions match?		
Step 2	Contact the next	The problem is
Replace the mismatched toner cartridge with the correct supply. A toner cartridge with a worldwide region may also be used.	level of support.	solved.
Does the problem remain?		

# Toner cartridge shutter error service check

Action	Yes	No
<ul> <li>Step 1</li> <li>Check if the printer is using a genuine and supported Sharp toner cartridge.</li> <li>Note: If the printer is using a third-party cartridge, then refer the users to their cartridge supplier.</li> <li>Is the printer using a genuine and supported toner cartridge?</li> </ul>	Go to step 3.	Go to step 2.
<b>Step 2</b> Install a genuine Sharp toner cartridge. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3 a Remove the toner cartridge. b Check the toner cartridge actuator (A) for damage.	Go to step 5.	Go to step 4.
Is the actuator free of damage?		
Step 4 Replace the toner cartridge. Does the problem remain?	Go to step 5.	The problem is solved.
<ul> <li>Step 5</li> <li>a Remove the toner cartridge shutter actuator. See <u>"Toner cartridge shutter actuator removal" on page 477</u>.</li> <li>b Check the toner cartridge shutter actuator for damage.</li> <li>Is the actuator free of damage?</li> </ul>	Go to step 7.	Go to step 6.

Action	Yes	No
Step 6 Replace the toner cartridge shutter actuator. See <u>"Toner cartridge</u> <u>shutter actuator removal" on page 477</u> .	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Check the sensor (toner cartridge shutter) for improper installation and damage.	Go to step 9.	Go to step 8.
Is the sensor properly installed and free of damage?		
Step 8 Reinstall or replace the sensor. See <u>"Sensor (toner cartridge</u> <u>shutter) removal" on page 477</u> . Does the problem remain?	Go to step 9.	The problem is solved.
<ul> <li>Step 9</li> <li>a Remove the right cover. See <u>"Right cover removal" on page 461</u>.</li> <li>b Check the sensor cable and the cable J8 on the controller board for proper connection.</li> <li>Is the cable properly connected?</li> </ul>	Contact the next level of support.	Go to step 10.
Step 10 Reseat the cable. Does the problem remain?	Contact the next level of support.	The problem is solved.

# 5y user attendance errors

## 58–59 user attendance messages

Error code	Description	Action
58	The optional trays or optional bins installed are too many.	See <u>"Excess optional trays or optional bins</u> service check" on page 319.
59	The optional tray or optional bin is incompatible with the printer.	See <u>"Incompatible optional trays or optional</u> bins service check" on page 319.

## Excess optional trays or optional bins service check

Action	Yes	No
<ul> <li>a Turn off the printer, and then unplug it.</li> <li>b Remove the excess optional trays or optional bins. For more information, see <u>"Printer configurations" on page 765</u>.</li> <li>c Plug the printer, and then turn it on.</li> </ul>	Contact the next level of support.	The problem is solved.

## Incompatible optional trays or optional bins service check

Action	Yes	Νο
<ul> <li>a Turn off the printer, and then unplug it.</li> <li>b Remove the incompatible optional trays or optional bins. For more information, see <u>"Printer configurations" on page 765</u>.</li> <li>c Plug the printer, and then turn it on.</li> </ul>	Contact the next level of support.	The problem is solved.

# 8y user attendance errors

#### 80–88 user attendance messages

Error code	Description	Action
80.01	The remaining life of the maintenance kit is nearly low.	Replace the maintenance kit.
80.03	The remaining life of the maintenance kit is nearly low.	
80.09	The remaining life of the maintenance kit is nearly low.	
80.11	The remaining life of the maintenance kit is low.	
80.13	The remaining life of the maintenance kit is low.	
80.19	The remaining life of the maintenance kit is low.	
80.21	The remaining life of the maintenance kit is very low.	
80.23	The remaining life of the maintenance kit is very low.	
80.29	The remaining life of the maintenance kit is very low.	

Error code	Description	Action
80.31	The maintenance kit life has ended.	Replace the maintenance kit.
80.33	The maintenance kit life has ended.	
80.36	The maintenance kit life has ended.	
80.39	The maintenance kit life has ended.	
80.41	The maintenance kit life has ended. The printer forces a hard stop on the fuser.	
80.43	The maintenance kit life has ended. The printer forces a hard stop on the fuser.	
80.48	The maintenance kit life has ended. The printer forces a hard stop on the fuser.	
84.00	The remaining life of the imaging unit is nearly low.	Replace the imaging unit.
84.01	The remaining life of the imaging unit is nearly low.	
84.02	The remaining life of the imaging unit is nearly low.	
84.09	The remaining life of the imaging unit is nearly low.	
84.11	The remaining life of the imaging unit is low.	
84.12	The remaining life of the imaging unit is low.	
84.13	The remaining life of the imaging unit is low.	
84.19	The remaining life of the imaging unit is low.	
84.21	The remaining life of the imaging unit is very low.	Replace the imaging unit.
84.22	The remaining life of the imaging unit is very low.	
84.23	The remaining life of the imaging unit is very low.	
84.29	The remaining life of the imaging unit is very low.	
84.31	The imaging unit life has ended.	
84.32	The imaging unit life has ended.	
84.33	The imaging unit life has ended.	
84.38	The imaging unit life has ended.	
84.41	The imaging unit life has ended.	Replace the imaging unit.
84.42	The imaging unit life has ended.	
84.43	The imaging unit life has ended.	
84.48	The imaging unit life has ended.	

Error code	Description	Action
88.00	The remaining life of the toner cartridge is nearly low.	Replace the toner cartridge.
88.09	The remaining life of the toner cartridge is nearly low.	
88.10	The remaining life of the toner cartridge is low.	
88.19	The remaining life of the toner cartridge is low.	
88.20	The remaining life of the toner cartridge is very low.	
88.29	The remaining life of the toner cartridge is very low.	
88.30	The toner cartridge life has ended.	
88.40	The toner cartridge life has ended. The printer forces a hard stop on the toner cartridge.	
88.48	The toner cartridge life has ended. The printer forces a hard stop on the toner cartridge.	

# **Printer hardware errors**

## 111 errors

Error code	Description	Action
111.20	Printhead error (mirror motor lock) was detected before the motor was turned on.	See <u>"Printhead error service check" on</u> page 322.
111.21	No printhead power (+5V) when the laser servo started.	
111.30	The printhead failed during power on tests.	See <u>"Printhead error service check" on</u>
111.31	Printhead error (no first HSYNC) was detected.	<u>page 322</u> .
111.32	Printhead error (lost HSYNC) was detected.	
111.33	Printhead error (lost HSYNC) was detected during servo.	
111.34	Printhead error (mirror motor lost lock) was detected.	
111.35	Printhead error (mirror motor never got first lock) was detected.	
111.36	Printhead error (mirror motor lock never stabilized) was detected.	

Error code	Description	Action
111.40	The wrong printhead is installed.	See <u>"Printhead error service check" on</u>
111.41	Printhead NVRAM read failure occurred.	<u>page 322</u> .

## Printhead error service check

Action	Yes	No
Step 1 Restart the printer.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Check if the cables J6 and J19 on the controller board are properly connected and free of damage.	Go to step 4.	Go to step 3.
Are the cables properly connected and free of damage?		
Step 3 Reseat the cables or replace the printhead. See <u>"Printhead</u> <u>removal" on page 502</u> .	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Restart the printer.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Replace the controller board. See <u>"Controller board removal" on</u> page 472.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# 12y errors

#### 120 error messages

Error code	Description	Action
120.80	Motor (fuser) does not turn on.	See <u>"Fuser drive failure service check" on</u>
120.81	Motor (fuser) does not turn off.	<u>page 325</u> .
120.82	Motor (fuser) speed did not ramp up to the required level.	
120.83	Motor (fuser) stalled.	
120.84	Motor (fuser) ran too slow.	
120.85	Motor (fuser) ran too fast.	
120.86	Motor (fuser) moved too long.	

Error code	Description	Action
121.00	Fuser did not reach the required temperature.	See <u>"Fuser temperature error service check"</u>
121.01	During an attempt to heat up, the fuser was not detected.	<u>on page 326</u> .
121.02	Fuser went over the required temperature (during EWC/line voltage detection).	
121.03	Fuser hardware and driver are mismatched.	
121.04	During an attempt to heat up, the fuser relay was open and the microcontroller was not reporting an error.	
121.05	During an attempt to heat up, the fuser relay was open and the microcontroller was reporting an error.	
121.09	Fuser fell below the required temperature for motors.	
	Note: Error is not applicable to standby mode.	

Error code	Description	Action
121.10	Fuser did not reach the required temperature (during start of EWC/line voltage detection).	See <u>"Fuser temperature error service check"</u> on page 326.
121.11	Fuser reached the required temperature (during final EWC/line voltage detection) too late.	
121.12	Fuser did not reach the required temperature (during final EWC/line voltage detection).	
121.13	Fuser reached the required temperature (during final EWC/line voltage detection) too fast.	
121.19	Fuser high power trace reached the required temperature (during final EWC/line voltage detection) too fast.	
121.20	Fuser high power trace heating rate went over the limit.	See <u>"Fuser temperature error service check"</u> on page 326.
121.21	Fuser low power trace heating rate (from 165°C to 180°C) went over the limit.	
121.22	Open fuser relay was detected.	
121.28	Fuser did not reach the required temperature (during EP warm-up).	
121.30	Fuser did not reach the required temperature even if it has been on for a long time.	See <u>"Fuser temperature error service check"</u> on page 326.
121.32	Fuser did not reach the required temperature (on 100% power).	
121.33	Fuser did not reach the required temperature (while page is in the fuser).	
121.34	Fuser did not reach the required temperature (during steady state control).	
121.36	Open fuser relay was detected with very cold or unknown ambient temperature.	
121.50	Fuser went over the required temperature (during global overtemp check).	See <u>"Fuser temperature error service check"</u> on page 326.
121.51	Fuser went over the required temperature (at the secondary heater).	
121.52	Main thermistor temperature is out of range.	]
121.53	Main thermistor temperature change rate is out of range.	
121.58	Edge thermistor temperature is out of range.	
121.59	Edge thermistor temperature change rate is out of range.	

Error code	Description	Action
121.60	Belt contact thermistor temperature is out of range.	See "Fuser temperature error service check"
121.61	Belt contact thermistor temperature change rate is out of range.	<u>on page 326</u> .
121.66	Narrow media thermistor temperature is out of range.	
121.67	Narrow media thermistor temperature change rate is out of range.	
121.71	Open fuser main heater thermistor was detected.	See <u>"Fuser temperature error service check"</u>
121.74	Open fuser edge thermistor was detected.	<u>on page 326</u> .
121.76	Open belt contact thermistor was detected.	
121.81	Open fuser backup roll thermistor was detected.	See <u>"Fuser temperature error service check"</u>
121.82	Open fuser second backup roll thermistor was detected.	on page 326.
121.83	Open fuser narrow media backup roll thermistor was detected.	

# 126 error messages

Error code	Description	Action
126.01	Line frequency has gone outside the operating range.	See <u>"LVPS failure service check" on</u> page 328.
126.05	The LVPS power dropped but the printer was not in sleep mode.	
126.06	LVPS 25V line error was detected.	
126.07	LVPS 5V rail was down during power-on.	
126.10	No line frequency was detected.	
126.11	Line frequency has gone outside the operating range.	

## Fuser drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the following cables are properly connected and free of damage:		
<ul> <li>cable J71 on the controller board</li> </ul>		
fuser motor cable		
Are the cables properly connected and free of damage?		

Action	Yes	No
Step 2 Reseat or replace the cables.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Restart the printer.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Replace the motor (main). See <u>"Main motor drive removal" on</u> page 451.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Restart the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Fuser temperature error service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the fuser for proper installation.		
Is the fuser properly installed?		
Step 2	Go to step 3.	The problem is
Reinstall the fuser.		solved.
Does the problem remain?		
Step 3	Go to step 4.	Go to step 6.
Check if the fuser is a genuine and supported Sharp unit.		
Is the fuser a genuine and supported Sharp unit?		
Step 4	Go to step 5.	Go to step 6.
Check if the fuser type is compatible with the specific model of the printer.		
Are the fuser and printer compatible?		
Step 5	Go to step 7.	Go to step 6.
Check the fuser life.		
Is the fuser still within its rated or recommended life?		

Action	Yes	No
Step 6	Go to step 7.	The problem is
Replace the fuser. See <u>"Fuser removal" on page 498</u> .		solved.
<b>Note:</b> Make sure that the new fuser is supported by the specific model of the printer.		
Does the problem remain?		
Step 7	Go to step 8.	The problem is
Make sure that the voltage output of the electrical outlet matches the voltage rating of the printer.		solved.
Does the problem remain?		
Step 8	Go to step 10.	Go to step 9.
Check the cable J66 on the controller board for proper connection.		
Is the cable properly connected?		
Step 9	Go to step 10.	The problem is
Reseat the cables.		solved.
Does the problem remain?		
Step 10	Go to step 12.	Go to step 11.
Check the cables on the LVPS for proper connection.		
Are the cables properly connected?		
Step 11	Go to step 12.	The problem is
Reseat the cables.		solved.
Does the problem remain?		
Step 12	Go to step 13.	The problem is
Make sure that the LVPS voltage selection switch is set to match with the voltage rating of the electrical outlet.		solved.
Does the problem remain?		
Step 13	Go to step 14.	The problem is
Restart the printer.		solved.
Does the problem remain?		
Step 14	Go to step 15.	The problem is
Replace the LVPS. See <u>"LVPS removal" on page 454</u> .		solved.
Does the problem remain?		

Action	Yes	No
Step 15 Restart the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## LVPS failure service check

Action	Yes	No
<b>Step 1</b> Check if the printer is plugged to a power strip or UPS. Make sure that the printer is directly plugged to the electrical outlet.	Go to step 2.	The problem is solved.
Does the problem remain?		
<b>Step 2</b> Make sure that the voltage output of the electrical outlet matches the voltage rating of the printer.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Check the J62 cable on the controller board for proper connection.	Go to step 5.	Go to step 4.
Is the cable properly connected?		
Step 4 Reseat the cable.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the cables on the LVPS for proper connection.	Go to step 7.	Go to step 6.
Are the cables properly connected?		
Step 6 Reseat the cables.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Make sure that the LVPS voltage selection switch is set to match with the voltage rating of the electrical outlet.	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Restart the printer.	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 9 Replace the LVPS. See <u>"LVPS removal" on page 454</u> .	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10 Restart the printer.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Replace the controller board. See <u>"Controller board removal" on</u> <u>page 472</u> .	Go to step 12.	The problem is solved.
Does the problem remain?		
Step 12 Restart the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 133 errors

## 133 error messages

Error code	Description	Action
133.04	CTLS timeout was detected at the imaging unit.	See <u>"Imaging unit CTLS failure service check"</u>
133.05	CTLS reading at the imaging unit is above the maximum expected value.	<u>on page 329</u> .
133.06	CTLS reading at the imaging unit is below the minimum expected value.	
133.08	Excessive CTLS noise was detected at the imaging unit.	

# Imaging unit CTLS failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the imaging unit for proper installation.		
Is the imaging unit properly installed?		
Step 2	Go to step 3.	The problem is
Reinstall the imaging unit.		solved.
Does the problem remain?		

Action	Yes	No
Step 3	Go to step 4.	The problem is
Replace the imaging unit.		solved.
Does the problem remain?		
Step 4	Go to step 6.	Go to step 5.
Check if the cables J88 and JCTLS1 on the controller board are properly connected and free of damage.		
Are the cables properly connected and free of damage?		
Step 5	Go to step 6.	The problem is
Reseat or replace the cables.		solved.
Does the problem remain?		
Step 6	Go to step 8.	Go to step 7.
Check the imaging unit high voltage contacts for damage.		
Are the high voltage contacts free of damage?		
Step 7	Go to step 8.	The problem is
Replace the imaging unit contact guide. See <u>"High voltage</u> contacts guide removal" on page 474.		solved.
Does the problem remain?		
Step 8	Contact the next	The problem is
Restart the printer.	level of support.	solved.
Does the problem remain?		

# 14y errors

Error code	Description	Action
140.80	Motor (main) does not turn on.	See <u>"Main drive failure service check" on</u>
140.81	Motor (main) does not turn off.	<u>page 331</u> .
140.82	Motor (main) speed did not ramp up to the required level.	
140.83	Motor (main) stalled.	
140.84	Motor (main) ran too slow.	
140.85	Motor (main) ran too fast.	
140.86	Motor (main) moved too long.	

## 149 error messages

Error code	Description	Action
149.80	Motor (redrive) does not turn on.	See <u>"Redrive drive failure service check" on</u>
149.81	Motor (redrive) does not turn off.	<u>page 332</u> .
149.82	Motor (redrive) speed did not ramp up to the required level.	
149.83	Motor (redrive) stalled.	
149.84	Motor (redrive) ran too slow.	
149.85	Motor (redrive) ran too fast.	
149.86	Motor (redrive) moved too long.	

## Main drive failure service check

Action	Yes	No
Step 1 a Remove the imaging unit. b To check for cleaning blade failure, manually turn the photoconductor gear. Image: Step 1	Go to step 3.	Go to step 2.
Step 2 Replace the imaging unit. Does the problem remain?	Go to step 3.	The problem is solved.
<ul> <li>Step 3</li> <li>Check if the following cables are properly connected and free of damage: <ul> <li>cable J71 on the controller board</li> <li>main motor cable</li> </ul> </li> <li>Are the cables properly connected and free of damage?</li> </ul>	Go to step 5.	Go to step 4.

Action	Yes	No
<b>Step 4</b> Reseat or replace the cables.	Go to step 5.	The problem is solved.
Does the problem remain?		
Step 5 Restart the printer.	Go to step 6.	The problem is solved.
Does the problem remain?		
Step 6 Replace the motor (main). See <u>"Main motor drive removal" on</u> page 451.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Restart the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Redrive drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the following cables are properly connected and free of damage:		
<ul> <li>cable J66 on the controller board</li> </ul>		
redrive motor cable		
Are the cables properly connected and free of damage?		
Step 2	Go to step 3.	The problem is
Reseat or replace the cables.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Restart the printer.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Replace the motor (redrive). See <u>"Motor (redrive) removal" on</u> page 457.		solved.
Does the problem remain?		

Action	Yes	No
Step 5 Restart the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# 15y errors

## 150 error messages

Error code	Description	Action
150.80	Motor (duplex) does not turn on.	See <u>"Duplex drive failure service check" on</u>
150.81	Motor (duplex) does not turn off.	<u>page 334</u> .
150.82	Motor (duplex) speed did not ramp up to the required level.	
150.83	Motor (duplex) stalled.	
150.84	Motor (duplex) ran too slow.	
150.85	Motor (duplex) ran too fast.	
150.86	Motor (duplex) moved too long.	

Error code	Description	Action
155.80	Motor (toner cartridge) does not turn on.	See <u>"Toner cartridge drive failure service</u>
155.81	Motor (toner cartridge) does not turn off.	<u>check" on page 335</u> .
155.82	Motor (toner cartridge) speed did not ramp up to the required level.	
155.83	Motor (toner cartridge) stalled.	
155.84	Motor (toner cartridge) ran too slow.	
155.85	Motor (toner cartridge) ran too fast.	
155.86	Motor (toner cartridge) moved too long.	

# Duplex drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the following cables are properly connected and free of damage:		
<ul> <li>cable J27 on the controller board</li> </ul>		
duplex motor cable		
Are the cables properly connected and free of damage?		
Step 2	Go to step 3.	The problem is
Reseat or replace the cables.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Restart the printer.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Replace the motor (duplex). See <u>"Motor (duplex) removal" on</u> page 497.		solved.
Does the problem remain?		
Step 5	Contact the next	The problem is
Restart the printer.	level of support.	solved.
Does the problem remain?		

# Toner cartridge drive failure service check

Action	Yes	No
<ul> <li>Step 1</li> <li>a Remove the toner cartridge, and then check it for damage.</li> <li>b Manually turn the toner cartridge gear, and then check if it is stuck.</li> </ul>	Go to step 3.	Go to step 2.
Is the toner cartridge functional and free of damage?		
Step 2 Replace the toner cartridge. Does the problem remain?	Go to step 3.	The problem is solved.
Step 3	Go to step 5.	Go to step 4.
<ul> <li>Check if the following cables are properly connected and free of damage:</li> <li>cable J71 on the controller board</li> <li>toner cartridge motor cable</li> </ul>		
Are the cables properly connected and free of damage?		
Step 4 Reseat or replace the cables.	Go to step 5.	The problem is solved.
Does the problem remain?	Co to stop 6	The problem is
<b>Step 5</b> Restart the printer.	Go to step 6.	The problem is solved.
Does the problem remain?		
<b>Step 6</b> Replace the toner cartridge drive.	Go to step 7.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 7 Restart the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 160–161 errors

## 160 error messages

Error code	Description	Action
160.80	Motor (MPF) does not turn on.	See <u>"MPF drive failure service check" on</u>
160.81	Motor (MPF) does not turn off.	<u>page 337</u> .
160.82	Motor (MPF) speed did not ramp up to the required level.	
160.83	Motor (MPF) stalled.	
160.84	Motor (MPF) ran too slow.	
160.85	Motor (MPF) ran too fast.	
160.86	Motor (MPF) moved too long.	

Error code	Description	Action
161.80	Motor (tray 1 pick/lift) does not turn on.	See <u>"Tray 1 pick drive failure service check" on</u>
161.81	Motor (tray 1 pick/lift) does not turn off.	<u>page 337</u> .
161.82	Motor (tray 1 pick/lift) speed did not ramp up to the required level.	
161.83	Motor (tray 1 pick/lift) stalled.	
161.84	Motor (tray 1 pick/lift) ran too slow.	
161.85	Motor (tray 1 pick/lift) ran too fast.	
161.86	Motor (tray 1 pick/lift) moved too long.	

## MPF drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the following cables are properly connected and free of damage:		
<ul> <li>cable J71 on the controller board</li> </ul>		
MPF motor cable		
Are the cables properly connected and free of damage?		
Step 2	Go to step 3.	The problem is
Reseat or replace the cables.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Restart the printer.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Replace the motor (MPF). See <u>"Motor (MPF) removal" on</u> page 454.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
Replace the controller board. See <u>"Controller board removal" on</u> page 472.		solved.
Does the problem remain?		
Step 6	Contact the next	The problem is
Restart the printer.	level of support.	solved.
Does the problem remain?		

# Tray 1 pick drive failure service check

Action	Yes	No
<b>Step 1</b> Check if the following cables are properly connected and free of	Go to step 3.	Go to step 2.
damage: • cable J73 on the controller board		
<ul> <li>tray 1 pick motor cable</li> </ul>		
Are the cables properly connected and free of damage?		

Action	Yes	No
Step 2 Reseat or replace the cables.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Restart the printer.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Replace the tray 1 paper feeder. See <u>"Paper feeder removal" on</u> page 457.	Go to step 5.	The problem is solved.
Does the problem remain?		
Step 5 Restart the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 162-169 errors

Error code	Description	Action
162.80	Motor (tray 2 pick/lift) does not turn on.	See <u>"Optional tray pick drive failure service</u>
162.81	Motor (tray 2 pick/lift) does not turn off.	check" on page 343.
162.82	Motor (tray 2 pick/lift) speed did not ramp up to the required level.	
162.83	Motor (tray 2 pick/lift) stalled.	
162.84	Motor (tray 2 pick/lift) ran too slow.	
162.85	Motor (tray 2 pick/lift) ran too fast.	
162.86	Motor (tray 2 pick/lift) moved too long.	

## 163 error messages

Error code	Description	Action
163.80	Motor (tray 3 pick/lift) does not turn on.	See <u>"Optional tray pick drive failure service</u>
163.81	Motor (tray 3 pick/lift) does not turn off.	check" on page 343.
163.82	Motor (tray 3 pick/lift) speed did not ramp up to the required level.	
163.83	Motor (tray 3 pick/lift) stalled.	
163.84	Motor (tray 3 pick/lift) ran too slow.	
163.85	Motor (tray 3 pick/lift) ran too fast.	
163.86	Motor (tray 3 pick/lift) moved too long.	

#### 164 error messages

Error code	Description	Action
164.80	Motor (tray 4 pick/lift) does not turn on.	See <u>"Optional tray pick drive failure service</u>
164.81	Motor (tray 4 pick/lift) does not turn off.	check" on page 343.
164.82	Motor (tray 4 pick/lift) speed did not ramp up to the required level.	
164.83	Motor (tray 4 pick/lift) stalled.	
164.84	Motor (tray 4 pick/lift) ran too slow.	
164.85	Motor (tray 4 pick/lift) ran too fast.	
164.86	Motor (tray 4 pick/lift) moved too long.	

Error code	Description	Action
165.80	Motor (tray 5 pick/lift) does not turn on.	See <u>"Optional tray pick drive failure service</u>
165.81	Motor (tray 5 pick/lift) does not turn off.	<u>check" on page 343</u> .
165.82	Motor (tray 5 pick/lift) speed did not ramp up to the required level.	
165.83	Motor (tray 5 pick/lift) stalled.	
165.84	Motor (tray 5 pick/lift) ran too slow.	
165.85	Motor (tray 5 pick/lift) ran too fast.	
165.86	Motor (tray 5 pick/lift) moved too long.	

Error code	Description	Action
166.70	The motor (2100-sheet tray 2 transport) or motor (2100-sheet tray 2 elevator) does not turn on.	See <u>"2100-sheet tray transport and elevator</u> drive failure service check" on page 356.
166.71	The motor (2100-sheet tray 2 transport) or motor (2100-sheet tray 2 elevator) does not turn off.	
166.72	The motor (2100-sheet tray 2 transport) or motor (2100-sheet tray 2 elevator) speed did not ramp up to the required level.	
166.73	The motor (2100-sheet tray 2 transport) or motor (2100-sheet tray 2 elevator) stalled.	
166.74	The motor (2100-sheet tray 2 transport) or motor (2100-sheet tray 2 elevator) ran too slow.	
166.75	The motor (2100-sheet tray 2 transport) or motor (2100-sheet tray 2 elevator) ran too fast.	
166.76	The motor (2100-sheet tray 2 transport) or motor (2100-sheet tray 2 elevator) ran too long.	
166.80	Motor (tray 2 transport) does not turn on.	See <u>"Tray 2 transport motor failure service</u>
166.81	Motor (tray 2 transport) does not turn off.	check" on page 345.
166.82	Motor (tray 2 transport) speed did not ramp up to the required level.	See <u>"Tray 2 transport drive failure service</u> check" on page 346.
166.83	Motor (tray 2 transport) stalled.	
166.84	Motor (tray 2 transport) ran too slow.	
166.85	Motor (tray 2 transport) ran too fast.	
166.86	Motor (tray 2 transport) ran too long.	

Error code	Description	Action	
167.70	The motor (2100-sheet tray 3 transport) or motor (2100-sheet tray 3 elevator) does not turn on.	See <u>"2100-sheet tray transport and elevator</u> drive failure service check" on page 356.	
167.71	The motor (2100-sheet tray 3 transport) or motor (2100-sheet tray 3 elevator) does not turn off.		
167.72	The motor (2100-sheet tray 3 transport) or motor (2100-sheet tray 3 elevator) speed did not ramp up to the required level.		
167.73	The motor (2100-sheet tray 3 transport) or motor (2100-sheet tray 3 elevator) stalled.		
167.74	The motor (2100-sheet tray 3 transport) or motor (2100-sheet tray 3 elevator) ran too slow.		
167.75	The motor (2100-sheet tray 3 transport) or motor (2100-sheet tray 3 elevator) ran too fast.		
167.76	The motor (2100-sheet tray 3 transport) or motor (2100-sheet tray 3 elevator) ran too long.		
167.80	Motor (tray 3 transport) does not turn on.	See <u>"Tray 3 transport motor failure service</u>	
167.81	Motor (tray 3 transport) does not turn off.	<u>check" on page 348</u> .	
167.82	Motor (tray 3 transport) speed did not ramp up to the required level.	See <u>"Tray 3 transport drive failure service</u> check" on page 349.	
167.83	Motor (tray 3 transport) stalled.		
167.84	Motor (tray 3 transport) ran too slow.		
167.85	Motor (tray 3 transport) ran too fast.		
167.86	Motor (tray 3 transport) ran too long.		

Error code	Description	Action	
168.70	The motor (2100-sheet tray 4 transport) or motor (2100-sheet tray 4 elevator) does not turn on.	See <u>"2100-sheet tray transport and elevator</u> drive failure service check" on page 356.	
168.71	The motor (2100-sheet tray 4 transport) or motor (2100-sheet tray 4 elevator) does not turn off.		
168.72	The motor (2100-sheet tray 4 transport) or motor (2100-sheet tray 4 elevator) speed did not ramp up to the required level.		
168.73	The motor (2100-sheet tray 4 transport) or motor (2100-sheet tray 4 elevator) stalled.		
168.74	The motor (2100-sheet tray 4 transport) or motor (2100-sheet tray 4 elevator) ran too slow.		
168.75	The motor (2100-sheet tray 4 transport) or motor (2100-sheet tray 4 elevator) ran too fast.		
168.76	The motor (2100-sheet tray 4 transport) or motor (2100-sheet tray 4 elevator) ran too long.		
168.80	Motor (tray 4 transport) does not turn on.	See <u>"Tray 4 transport motor failure service</u>	
168.81	Motor (tray 4 transport) does not turn off.	<u>check" on page 351</u> .	
168.82	Motor (tray 4 transport) speed did not ramp up to the required level.	See <u>"Tray 4 transport drive failure service</u> check" on page 352.	
168.83	Motor (tray 4 transport) stalled.		
168.84	Motor (tray 4 transport) ran too slow.		
168.85	Motor (tray 4 transport) ran too fast.		
168.86	Motor (tray 4 transport) ran too long.		

Error code	Description	Action	
169.70	The motor (2100-sheet tray 5 transport) or motor (2100-sheet tray 5 elevator) does not turn on.	See <u>"2100-sheet tray transport and elevato</u> drive failure service check" on page 356.	
169.71	The motor (2100-sheet tray 5 transport) or motor (2100-sheet tray 5 elevator) does not turn off.		
169.72	The motor (2100-sheet tray 5 transport) or motor (2100-sheet tray 5 elevator) speed did not ramp up to the required level.		
169.73	The motor (2100-sheet tray 5 transport) or motor (2100-sheet tray 5 elevator) stalled.		
169.74	The motor (2100-sheet tray 5 transport) or motor (2100-sheet tray 5 elevator) ran too slow.		
169.75	The motor (2100-sheet tray 5 transport) or motor (2100-sheet tray 5 elevator) ran too fast.		
169.76	The motor (2100-sheet tray 5 transport) or motor (2100-sheet tray 5 elevator) ran too long.		
169.80	Motor (tray 5 transport) does not turn on.	See <u>"Tray 5 transport motor failure service</u>	
169.81	Motor (tray 5 transport) does not turn off.	<u>check" on page 354</u> .	
169.82	Motor (tray 5 transport) speed did not ramp up to the required level.	See <u>"Tray 5 transport drive failure service</u> <u>check" on page 355</u> .	
169.83	Motor (tray 5 transport) stalled.		
169.84	Motor (tray 5 transport) ran too slow.		
169.85	Motor (tray 5 transport) ran too fast.		
169.86	Motor (tray 5 transport) ran too long.		

# Optional tray pick drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print >select source tray > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pick (tray x)), and then touch Start. Note: For tray x, choose the tray number of the affected source tray.</li> </ul>	Go to step 8.	Go to step 6.
Does the motor run?		
<b>Step 6</b> Reseat the cable on the motor and on the optional tray controller board. Does the problem remain?	Go to step 7.	The problem is solved.
Step 7         Replace the source tray paper feeder. See <u>"550-sheet tray paper feeder removal" on page 591.</u> Does the problem remain?	Go to step 8.	The problem is solved.
<b>Step 8</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 9 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Tray 2 transport motor failure service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 3 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pass-through (tray 2)), and then touch Start.</li> </ul>	Go to step 8.	Go to step 6.
Does the motor run?		
<b>Step 6</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the motor (tray 2 transport). See <u>"Motor (550-</u> sheet tray transport) removal" on page 591.	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Make sure that the tray 2 interface cable is properly installed. Reseat the interface cable on the optional tray controller board.	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 9 Check the interface cable and its connector pins for damage.	Go to step 11.	Go to step 10.
Is the interface cable free of damage?		
Step 10 Replace the optional tray interface cable. See <u>"550</u> sheet tray interface cable removal" on page 597.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Make sure that the optional tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 12.	The problem is solved.
Does the problem remain?		
<b>Step 12</b> Check the optional tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 13 Replace the optional tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Tray 2 transport drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 3 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pass-through (tray 2)), and then touch Start.</li> </ul>	Go to step 8.	Go to step 6.
Step 6 Reseat the cable on the motor and on the optional tray controller board.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the motor (tray 2 transport). See <u>"Motor (550- sheet</u> tray transport) removal" on page 591. Does the problem remain?	Go to step 8.	The problem is solved.
Step 8	Go to step 10.	Go to step 9.
Remove the optional tray insert, and then check if its transport rollers are functional and free of damage. <b>Note:</b> Turn the transport roller gear to check for proper mechanism.		
Are the tray insert and its rollers functional and free of damage?		
Step 9 Replace the tray insert. Does the problem remain?	Go to step 10.	The problem is solved.
Step 10	Contact the next	The problem is
Check the optional tray controller board and its connector pins for damage.	level of support.	solved.
Are the tray controller board and its connectors free of damage?		
Step 11 Replace the optional tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Tray 3 transport motor failure service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 4 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pass-through (tray 3)), and then touch Start.</li> </ul>	Go to step 8.	Go to step 6.
Does the motor run?		
<b>Step 6</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the motor (tray 3 transport). See <u>"Motor (550-</u> sheet tray transport) removal" on page 591.	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Make sure that the tray 3 interface cable is properly installed. Reseat the interface cable on the optional tray controller board.	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 9</b> Check the interface cable and its connector pins for damage.	Go to step 11.	Go to step 10.
Is the interface cable free of damage?		
Step 10 Replace the optional tray interface cable. See <u>"550</u> sheet tray interface cable removal" on page 597.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Make sure that the optional tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 12.	The problem is solved.
Does the problem remain?		
<b>Step 12</b> Check the opitonal tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 13 Replace the optional tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Tray 3 transport drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 4 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pass-through (tray 3)), and then touch Start.</li> </ul>	Go to step 8.	Go to step 6.
<b>Step 6</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the motor (tray 3 transport). See <u>"Motor-(550- sheet</u> tray transport) removal" on page 591.	Go to step 8.	The problem is solved.
Does the problem remain?	C	
<ul> <li>Step 8</li> <li>Remove the optional tray insert, and then check if its transport rollers are functional and free of damage.</li> <li>Note: Turn the transport roller gear to check for proper mechanism.</li> </ul>	Go to step 10.	Go to step 9.
Are the tray insert and its rollers functional and free of damage?		
Step 9 Replace the tray insert. Does the problem remain?	Go to step 10.	The problem is solved.
	Contact the next	The problem is
<b>Step 10</b> Check the optional tray controller board and its connector pins for damage.	level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 11 Replace the optional tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Tray 4 transport motor failure service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 5 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pass-through (tray 4)), and then touch Start.</li> </ul>	Go to step 8.	Go to step 6.
Does the motor run?		
<b>Step 6</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the motor (tray 4 transport). See <u>"Motor-(550-</u> sheet tray transport) removal" on page 591.	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Make sure that the tray 4 interface cable is properly installed. Reseat the interface cable on the optional tray controller board.	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 9</b> Check the interface cable and its connector pins for damage.	Go to step 11.	Go to step 10.
Is the interface cable free of damage?		
Step 10 Replace the optional tray interface cable. See <u>"550</u> sheet tray interface cable removal" on page 597.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Make sure that the optional tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 12.	The problem is solved.
Does the problem remain?		
<b>Step 12</b> Check the optional tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 13 Replace the optional tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Tray 4 transport drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print > Tray 5 > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pass-through (tray 4)), and then touch Start.</li> </ul>	Go to step 8.	Go to step 6.
<b>Step 6</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the motor (tray 4 transport). See <u>"Motor (550- sheet</u> tray transport) removal" on page 591.	Go to step 8.	The problem is solved.
Does the problem remain?		
<ul><li>Step 8</li><li>Remove the optional tray insert, and then check if its transport rollers are functional and free of damage.</li><li>Note: Turn the transport roller gear to check for proper mechanism.</li></ul>	Go to step 10.	Go to step 9.
Are the tray insert and its rollers functional and free of damage?		
Step 9 Replace the tray insert.	Go to step 10.	The problem is solved.
Does the problem remain?	Contact the pout	The problem is
<b>Step 10</b> Check the optional tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 11 Replace the optional tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.

# Tray 5 transport motor failure service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pass-through (tray 5)), and then touch Start.</li> </ul>	Go to step 7.	Go to step 5.
Does the motor run?		
<b>Step 5</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 6.	The problem is solved.
Does the problem remain?		
Step 6 Replace the motor (tray 5 transport). See <u>"Motor (550- sheet</u> tray transport) removal" on page 591.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Make sure that the tray 5 interface cable is properly installed. Reseat the interface cable on the optional tray controller board.	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Check the interface cable and its connector pins for damage.	Go to step 10.	Go to step 9.
Is the interface cable free of damage?		

Action	Yes	No
Step 9 Replace the optional tray interface cable. See <u>"550</u> sheet tray interface cable removal" on page 597.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Make sure that the optional tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Check the optional tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 12 Replace the optional tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Tray 5 transport drive failure service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
<b>Step 2</b> Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pass-through (tray 5)), and then touch Start.</li> </ul>	Go to step 7.	Go to step 5.
Does the motor run?		

Action	Yes	No
<b>Step 5</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 6.	The problem is solved.
Does the problem remain?		
Step 6 Replace the motor (tray 5 transport). See <u>"Motor-(550- sheet</u> tray transport) removal" on page 591.	Go to step 7.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 7</li> <li>Remove the optional tray insert, and then check if its transport rollers are functional and free of damage.</li> <li>Note: Turn the transport roller gear to check for proper</li> </ul>	Go to step 9.	Go to step 8.
mechanism. Are the tray insert and its rollers functional and free of damage?		
Step 8 Replace the tray insert.	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Check the optional tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 10 Replace the optional tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# 2100-sheet tray transport and elevator drive failure service check

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

Action	Yes	No
<b>Step 3</b> Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
Step 4 Enter the Diagnostics menu, and then navigate to: Input tray quick print >select source tray > Single	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Perform a print test again, and then observe if the motor (2100-sheet tray transport) is running.	Go to step 8.	Go to step 6.
Does the motor run?		
<b>Step 6</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the motor. See <u>"Motor (2100-sheet tray transport)</u> removal" on page 565.	Go to step 8.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 8</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (High capacity tray lift), and then touch Start.</li> </ul>	Go to step 11.	Go to step 9.
Does the motor run?		
<b>Step 9</b> Reseat the cable on the motor and on the optional tray controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10 Replace the motor drive. See <u>"2100-sheet tray elevator drive</u> removal" on page 571.	Go to step 11.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 11</b> Check the optional tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
<b>Step 12</b> Replace the optional tray controller board. See <u>"2100-sheet tray</u> <u>controller board removal" on page 570</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 17y errors

### 171 error messages

Error code	Description	Action
171.82	Main fan speed did not ramp up to the required level.	See <u>"Main fan failure service check" on</u> page 358.
171.83	Main fan stalled.	
171.84	Main fan ran too slow.	
171.85	Main fan ran too fast.	

## 173 error messages

Error code	Description	Action
173.82	Cartridge fan speed did not ramp up to the required level.	See <u>"Cartridge fan failure service check" on</u> page 359.
173.83	Cartridge fan stalled.	
173.84	Cartridge fan ran too slow.	
173.85	Cartridge fan ran too fast.	

### Main fan failure service check

Action	Yes	Νο
Step 1	Go to step 3.	Go to step 2.
<ul><li>Check if the following cables are properly connected:</li><li>cable J71 on the controller board</li><li>main fan cable</li></ul>		
Are the cables properly connected?		

Action	Yes	No
Step 2	Go to step 3.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Restart the printer.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Replace the main fan. See <u>"Main fan removal" on page 453</u> .		solved.
Does the problem remain?		
Step 5	Contact the next	The problem is
Restart the printer.	level of support.	solved.
Does the problem remain?		

# Cartridge fan failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check if the following cables are properly connected:		
<ul> <li>cable J15 on the controller board</li> </ul>		
cartridge fan cable		
Are the cables properly connected?		
Step 2	Go to step 3.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Restart the printer.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Replace the cartridge fan. See <u>"Cartridge fan removal" on</u> <u>page 469</u> .		solved.
Does the problem remain?		

Action	Yes	No
Step 5 Restart the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# **6yy errors**

## 6yy errormessages

Error code	Description	Action
600.01	Toner tally from the RIP was not received.	Restart the print job. If the error persists, then
600.02	Video did not start.	contact the next level of support.
600.03	Transfer servo did not start.	
600.04	Duplex page was not picked.	
600.07	Page is at image point before EP is ready.	
600.09	EP update error was detected.	
600.10	EP late run-in error was detected.	
600.95	RIP intentionally declared a jam error, usually to prevent a kiosk user from printing free pages.	
602.19	Tray 1 was unable to be ready for picking.	Restart the print job. If the error persists, then
602.29	Tray 2 was unable to be ready for picking.	contact the next level of support.
602.39	Tray 3 was unable to be ready for picking.	
602.49	Tray 4 was unable to be ready for picking.	
602.59	Tray 5 was unable to be ready for picking.	
611.02	An Input ISR error occurred and the printhead was not ready.	
611.32	Lost HSYNC errors were detected. Laser safety interlock system may be the cause.	
611.33	Lost HSYNC error occurred during servo.	
611.34	A mirror motor lock error was detected.	
621.01	The fuser heater was not hot enough when the paper entered the fuser nip.	Restart the print job. If the error persists, then contact the next level of support.
647.xx	The motor (main) stalled.	
649.xx	The motor (redrive) stalled.	
650.xx	The motor (duplex) stalled.	
655.xx	The motor (toner cartridge) stalled.	
661.13	The tray 1 lift plate failed to lift.	See <u>"Tray 1 paper feeder control failure</u>
661.8x	Motor (tray 1 pick/lift) error was detected.	service check" on page 143.

Diagnostics and troubleshooting

Error code	Description	Action
662.23	The tray 2 lift plate failed to lift.	See <u>"Optional tray lift jam service check" on</u> page 361.
662.8x	Motor (tray 2 pick/lift) error was detected.	See <u>"Optional tray pick/lift drive failure</u> service check" on page 364.
663.33	The tray 3 lift plate failed to lift.	See <u>"Optional tray lift jam service check" on</u> page <u>361</u> .
663.8x	Motor (tray 3 pick/lift) error was detected.	See <u>"Optional tray pick/lift drive failure</u> service check" on page 364.
664.43	The tray 4 lift plate failed to lift.	See <u>"Optional tray lift jam service check" on</u> page <u>361</u> .
664.8x	Motor (tray 4 pick/lift) error was detected.	See <u>"Optional tray pick/lift drive failure</u> service check" on page 364.
665.53	The tray 5 lift plate failed to lift.	See <u>"Optional tray lift jam service check" on</u> page <u>361</u> .
665.8x	Motor (tray 5 pick/lift) error was detected.	See <u>"Optional tray pick/lift drive failure</u> service check" on page 364.
666.8x	Motor (tray 2 transport) error was detected.	See <u>"Optional tray transport drive failure</u>
667.8x	Motor (tray 3 transport) error was detected.	service check" on page 365.
668.8x	Motor (tray 4 transport) error was detected.	
669.8x	Motor (tray 5 transport) error was detected.	

# Optional tray lift jam service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		

Action	Yes	No
Step 4	Go to step 5.	The problem is
Enter the Diagnostics menu, and then navigate to:		solved.
Input tray quick print >select source tray > Single		
Does the problem remain?		
Step 5	Go to step 9.	Go to step 6.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Sensor tests		
<b>b</b> Find the sensor (Pick roller index (tray x)).		
<b>Note:</b> For tray x, choose the tray number of the affected source tray.		
Does the sensor status change while toggling the sensor?		
Step 6	Go to step 8.	Go to step 7.
Check the sensor cable on the optional tray controller board for proper connection.		
Is the cable properly connected?		
Step 7	Go to step 8.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 8	Go to step 9.	The problem is
Replace the sensor. See <u>"Sensor (550-sheet tray pick roller</u> index) removal" on page 595.		solved.
Does the problem remain?		
Step 9	Go to step 11.	Go to step 10.
Remove the source tray insert, and then check if the following components are functional and free of damage:		
Paper guides		
Lift plate		
<b>Note:</b> Move the components or turn gears to check for proper mechanisms.		
Are the tray insert and its components functional and free of damage?		
Step 10	Go to step 11.	The problem is
Replace the tray insert.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 11</b> Check if the source tray paper feeder and its actuators are functional, properly installed, and free of damage.	Go to step 13.	Go to step 12.
Are the paper feeder and its components functional, properly installed, and free of damage?		
Step 12 Reinstall or replace the paper feeder. See <u>"550-sheet</u> tray paper feeder removal" on page 591.	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Make sure that the interface cable of the affected tray is properly installed.	Go to step 14.	The problem is solved.
Does the problem remain?		
Step 14 Check the interface cable and its connector pins for damage.	Go to step 16.	Go to step 15.
Is the interface cable free of damage? Step 15	Go to step 16.	The problem is
Replace the optional tray interface cable. See <u>"550</u> sheet tray interface cable removal" on page 597.	Go to step 10.	solved.
Does the problem remain?		
<b>Step 16</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	Go to step 17.
Are the tray controller board and its connectors free of damage?		
Step 17 Replace the source tray controller board. See <u>"550 sheet</u> tray controller board removal" on page 593. Does the problem remain?	Contact the next level of support.	The problem is solved.

# Optional tray pick/lift drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Enter the Diagnostics menu, and then navigate to:		solved.
Input tray quick print >select source tray > Single		
Does the problem remain?		
Step 5	Go to step 9.	Go to step 6.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Additional input tray diagnostics > Motor tests		
<b>b</b> Select the motor (Pick (tray x)), and then touch <b>Start</b> .		
<b>Note:</b> For tray x, choose the tray number of the affected source tray.		
Does the motor run?		
Step 6	Go to step 7.	The problem is
Reseat the cable on the motor and on the optional tray controller board.		solved.
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
Check if the source tray paper feeder and its actuators are functional, properly installed, and free of damage.		
Are the paper feeder and its components functional, properly installed, and free of damage?		
Step 8	Go to step 9.	The problem is
Reinstall or replace the paper feeder. See <u>"550-sheet</u> tray		solved.
paper feeder removal" on page 591.		
Does the problem remain?		

Action	Yes	No
<b>Step 9</b> Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	Go to step 11.
Are the tray controller board and its connectors free of damage?		
Step 11 Replace the source tray controller board. See <u>"550-</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Optional tray transport drive failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the paper path and trays for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 2	Go to step 3.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
Make sure that all the trays and tray inserts are properly installed.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Enter the Diagnostics menu, and then navigate to:		solved.
Input tray quick print >select source tray > Single		
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to: Additional input tray diagnostics &gt; Motor tests</li> <li>b Select the motor (Pass-through (tray x)), and then touch Start. Note: For tray x, choose the tray number of the affected optional tray.</li> <li>Does the motor run?</li> </ul>	Go to step 8.	Go to step 6.
Step 6         Reseat the cable on the motor and on the optional tray controller board.         Does the problem remain?	Go to step 7.	The problem is solved.
Step 7         Replace the motor (transport) of the affected optional tray.         See "Motor (550-sheet tray transport) removal" on         page 591.         Does the problem remain?	Go to step 8.	The problem is solved.
Step 8 Make sure that the interface cable of the affected tray is properly installed. Does the problem remain?	Go to step 9.	The problem is solved.
Step 9 Check the interface cable and its connector pins for damage. Is the interface cable free of damage?	Go to step 11.	Go to step 10.
Step 10         Replace the optional tray interface cable. See <u>"550 sheet tray interface cable removal" on page 597.</u> Does the problem remain?	Go to step 11.	The problem is solved.
Step 11 Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 12.	The problem is solved.
Step 12         Check the source tray controller board and its connector pins for damage.         Are the tray controller board and its connectors free of damage?	Contact the next level of support.	Go to step 13.

Action	Yes	No
Step 13	Contact the next	The problem is
Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	level of support.	solved.
Does the problem remain?		

# 8yy errors

### 800–845 error messages

Error code	Description	Action
800.00	A communication failure has occurred between the printer controller board and the scanner.	See <u>"Scanner communication failure service</u> <u>check" on page 368</u> .
840.01	The scanner was manually disabled by the user.	See <u>"Scanner disabled (manual) service</u> <u>check" on page 369</u> .
840.02	The scanner was automatically disabled by the printer after two consecutive hardware failures.	See <u>"Scanner disabled (automatic) service</u> <u>check" on page 369</u> .
842.00	A communication failure has occurred due to no response from the scanner to the system controller.	See <u>"Scanner communication failure service</u> <u>check" on page 368</u> .
842.01	A communication failure has occurred due to an incorrect response from the scanner to the printer controller.	
842.02	A communication failure has occurred during front side scanning.	See <u>"Front side scan CCDM failure service</u> check" on page 370.
843.00	The flatbed CCDM failed to reach its home position.	See <u>"Flatbed CCDM home position failure</u> service check" on page 371.
843.01	The ADF calibration roller failed to reach its home position.	See <u>"ADF calibration strip failure service</u> check" on page 374.
843.07	The ADF tray lift arm failed to reach its home position.	See <u>"ADF tray lift failure service check" on</u> page <u>375</u> .
843.15	The motor (ADF tray lift) stalled.	See <u>"Motor (ADF tray lift) stalled service</u> check" on page 376.
843.18	The ADF pick roller failed to reach its proper picking position.	See <u>"ADF pick position failure service check"</u> on page 378.
845.03	A communication failure has occurred during back side scanning.	See <u>"Back side scan CCDM failure service</u> <u>check" on page 380</u> .

### Scanner communication failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the HDMI cables on the printer controller board and ADF controller board for proper connection.		
Are the cables properly connected?		
Step 2	Go to step 3.	The problem is
Reseat the cables.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the following sockets for proper connection.		
<ul> <li>J on the printer controller board</li> </ul>		
<ul> <li>JSPWR1 on the ADF controller board</li> </ul>		
Are the cables properly connected?		
Step 4	Go to step 5.	The problem is
Reseat the cables.		solved.
Does the problem remain?		
Step 5	Go to step 7.	Go to step 6.
Check socket J1 on the printer controller board for proper connection.		
Is the cable properly connected?		
Step 6	Go to step 7.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 7	Go to step 8.	The problem is
Reset the printer.		solved.
Does the problem remain?		
Step 8	Go to step 9.	The problem is
Replace the ADF controller board. See <u>"ADF controller board</u> removal" on page 520.		solved.
Does the problem remain?		
Step 9	Go to step 10.	The problem is
Reset the printer.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 10</b> Replace the printer controller board. See <u>"Controller board</u> <u>removal" on page 472</u> .	Go to step 11.	The problem is solved.
Does the problem remain?		
Step 11 Reset the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Scanner disabled (manual) service check

Action	Yes	No
Navigate to <b>Settings &gt; Device &gt; Maintenance &gt; Configuration</b> <b>Menu &gt; Scanner Configuration</b> . Set Disable Scanner to Enabled.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

### Scanner disabled (automatic) service check

**Note:** This only applies when, after performing the required service actions, the scanner remains in disabled state.

Ac	tion	Yes	No
Fro	ep 1 om the "Scanner disabled" error screen, select <b>Reboot and</b> tomatically enable scanner.	Go to step 2.	The problem is solved.
Do	es the problem remain?		
a b c d	ep 2From the home screen, navigate to:Settings > Device > Maintenance > Configuration Menu >Scanner ConfigurationScroll down and select Disable Scanner.Note: Enabled prompts, but ignore this message since thescanner was automatically disabled at the microcode level.Select Disabled, and then reset or power cycle the printer.Observe the behavior, which is no errors and no messages on boot-up.Navigate to Settings > Device > Maintenance > Configuration Menu > Scanner Configuration > Disable Scanner.Select Enabled, and then reset the printer once more to complete the procedure and return the scanner to full operation.	Contact the next level of support.	The problem is solved.
Do	es the problem remain?		

### Front side scan CCDM failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check socket J1 on the printer controller board for proper connection.		
Is the cable properly connected?		
Step 2	Go to step 3.	The problem is
Reseat the cable.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the flatbed scanner CCDM cable for proper connection.		
Is the cable properly connected to the CCDM?		
Step 4	Go to step 5.	The problem is
Reseat the cable.		solved.
Does the problem remain?		

Action	Yes	No
Step 5 Replace the flatbed scanner CCDM. See <u>"Flatbed scanner CCDM</u> removal" on page 546.	Go to step 6.	The problem is solved.
<b>Step 6</b> Reset the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Flatbed CCDM home position failure service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the HDMI cables on the printer controller board and ADF controller board for proper connection.		
Are the cables properly connected?		
Step 2	Go to step 3.	The problem is
Reseat the cables.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the following sockets for proper connection.		
<ul> <li>J on the printer controller board</li> </ul>		
<ul> <li>JSPWR1 on the ADF controller board</li> </ul>		
Are the cables properly connected?		
Step 4	Go to step 5.	The problem is
Reseat the cables.		solved.
Does the problem remain?		
Step 5	Go to step 7.	Go to step 6.
Check the following sockets for proper connection.		
<ul> <li>JICC on the ADF controller board</li> </ul>		
JICC on the flatbed scanner board		
Are the cables properly connected?		
Step 6	Go to step 7.	The problem is
Reseat the cables.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 7</b> Check socket J1 on the printer controller board for proper connection.	Go to step 9.	Go to step 8.
Is the cable properly connected?		
Step 8 Reseat the cable.	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Check the scanner belt for misalignment and damage.	Go to step 11.	Go to step 10.
Is the scanner belt properly installed and free of damage?		
<b>Step 10</b> Reinstall or replace the scanner belt.	Go to step 11.	The problem is solved.
Does the problem remain?		
<ul><li>Step 11</li><li>Check the tension of the scanner belt.</li><li>Note: With the proper belt tension, the flatbed CCDM will move smoothly.</li></ul>	Go to step 13.	Go to step 12.
Is the belt tension properly set?		
<b>Step 12</b> Reset or adjust the belt tension.	Go to step 13.	The problem is solved.
Does the problem remain?		
Step 13 Check the sensor (FB CCD home) for proper installation.	Go to step 15.	Go to step 14.
Is the sensor properly mounted to the scanner frame?		
Step 14 Reinstall or replace the sensor. See <u>"Sensor (FB CCDM) removal"</u> on page 552.	Go to step 15.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 15</li> <li>a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics &gt; Sensor tests</li> <li>b Find the sensor (FB CCD home).</li> </ul>	Go to step 18.	Go to step 16.
Does the sensor status change while toggling the sensor?		

Step 16 Check the sensor cable for proper connection, and then reseat if necessary.Go to step 17.• Check JFB1 on the flatbed scanner board. • Check the connector on the sensor.Go to step 17.Does the problem remain?Step 17Step 17 Replace the sensor. See <u>"Sensor (FB CCDM) removal" on page 552.</u> Go to step 18.Does the problem remain?Go to step 20.Step 18 CCD home)?Go to step 20.Step 19 Replace the flatbed scanner CCDM. See <u>"Flatbed scanner CCDM.</u> Does the actuator on the CCDM properly trigger the sensor (FB CCD home)?Go to step 20.Step 19 Replace the flatbed scanner CCDM. See <u>"Flatbed scanner CCDM.</u> Poes the problem remain?Go to step 20.Step 20 Reset the problem remain?Go to step 21.Step 21 Replace the ADF controller board. See <u>"ADF controller board removal" on page 520.</u> Go to step 22.Does the problem remain?Step 21 Step 22	No
<ul> <li>Check the connector on the sensor.</li> <li>Does the problem remain?</li> <li>Step 17 Replace the sensor. See <u>"Sensor (FB CCDM) removal" on page 552</u>.</li> <li>Does the problem remain?</li> <li>Step 18 Check the sensor actuator on the flatbed scanner CCDM.</li> <li>Does the actuator on the CCDM properly trigger the sensor (FB CCD home)?</li> <li>Step 19 Replace the flatbed scanner CCDM. See <u>"Flatbed scanner CCDM removal" on page 546</u>.</li> <li>Does the problem remain?</li> <li>Step 20 Reset the printer.</li> <li>Does the problem remain?</li> <li>Step 21 Replace the ADF controller board. See <u>"ADF controller board removal" on page 520</u>.</li> <li>Does the problem remain?</li> </ul>	The problem is solved.
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Does the problem remain?       Go to step 22.         Step 21       Go to step 22.         Replace the ADF controller board. See <u>"ADF controller board</u> " on page 520.       Go to step 22.         Does the problem remain?       Understand	The problem is
Step 21       Go to step 22.         Replace the ADF controller board. See <u>"ADF controller board</u> " on page 520.       Go to step 22.         Does the problem remain?       Here and the state of	solved.
Replace the ADF controller board. See <u>"ADF controller board</u> removal" on page 520.         Does the problem remain?	
removal" on page 520. Does the problem remain?	The problem is
	solved.
Step 22 Contact the next	
	The problem is
Reset the printer. level of support.	solved.
Does the problem remain?	

# ADF calibration strip failure service check

Action	Yes	No
<ul> <li>Step 1</li> <li>a Open the ADF bottom door, and then manually rotate the ADF calibration roller.</li> <li>b Reset the printer.</li> </ul>	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Check socket JCSHM on the ADF controller board.		
Is the cable properly connected?		
<b>Step 3</b> Reseat the cable.	Go to step 4.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 4</li> <li>a Enter the Diagnostics menu, and then navigate to: Scanner diagnostics &gt; Sensor tests</li> <li>b Find the sensor (ADF calibration strip home).</li> </ul>	Go to step 7.	Go to step 5.
Does the sensor status change while toggling the sensor?		
<ul> <li>Step 5</li> <li>Check the sensor cable for proper connection, and then reseat if necessary.</li> <li>Check the connector on the ADF controller board.</li> <li>Check the connector on the sensor.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<b>Step 6</b> Replace the sensor.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Reset the printer.	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Replace the ADF bottom door. See <u>"ADF bottom door removal"</u> <u>on page 522</u> .	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 9</b> Reset the printer.	Go to step 10.	The problem is solved.
Does the problem remain?		
Step 10	Go to step 11.	The problem is
Replace the ADF controller board. See <u>"ADF controller board</u> removal" on page 520.		solved.
Does the problem remain?		
Step 11	Contact the next	The problem is
Reset the printer.	level of support.	solved.
Does the problem remain?		

## ADF tray lift failure service check

Action	Yes	Νο
Step 1	Go to step 3.	Go to step 2.
Check the ADF tray lift mechanism for obstructions.		
Is the lift mechanism free of obstructions?		
Step 2	Go to step 3.	The problem is
Remove the obstructions.		solved.
Does the problem remain?		
Step 3	Go to step 6.	Go to step 4.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF tray upper limit).		
Does the sensor status change while toggling the sensor?		
Step 4	Go to step 5.	The problem is
Check the sensor cable for proper connection, and then reseat if necessary.		solved.
Check the connector on the ADF controller board.		
Check the connector on the sensor.		
Does the problem remain?		
Step 5	Go to step 6.	The problem is
Replace the sensor.		solved.
Does the problem remain?		

Action	Yes	No
<b>Step 6</b> Reset the printer.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the ADF controller board. See <u>"ADF controller board</u> removal" on page 520.	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Reset the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# Motor (ADF tray lift) stalled service check

Action	Yes	No
Step 1	Go to step 3.	Go to step 2.
Check the ADF pick roller for proper installation.		
Is the pick roller properly installed?		
Step 2	Go to step 3.	The problem is
Reinstall the ADF pick roller.		solved.
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check the sensor actuator on the ADF pick roller.		
Does the actuator on the pick roller properly trigger the sensor (ADF pick roller index)?		
Step 4	Go to step 5.	The problem is
Replace the ADF pick roller. See <u>"ADF maintenance kit removal"</u> on page 516.		solved.
Does the problem remain?		
Step 5	Go to step 7.	Go to step 6.
Check the ADF tray lift mechanism for obstructions.		
Is the lift mechanism free of obstructions?		
Step 6	Go to step 7.	The problem is
Remove the obstructions.		solved.
Does the problem remain?		

Action	Yes	No
Step 7	Go to step 10.	Go to step 8.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Motor tests > ADF tray lift		
<b>b</b> Touch <b>Start</b> .		
Does the motor run?		
Step 8	Go to step 9.	The problem is
Check the motor cable for proper connection, and then reseat if necessary.		solved.
<ul> <li>Check the connector on the ADF controller board.</li> </ul>		
Check the connector on the motor.		
Does the problem remain?		
Step 9	Go to step 10.	The problem is
Replace the motor. See <u>"Motor (ADF) removal" on page 526</u> .		solved.
Does the problem remain?		
Step 10	Go to step 13.	Go to step 11.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF tray upper limit).		
Does the sensor status change while toggling the sensor?		
Step 11	Go to step 12.	The problem is
Check the sensor cable for proper connection, and then reseat if necessary.		solved.
<ul> <li>Check the connector on the ADF controller board.</li> </ul>		
Check the connector on the sensor.		
Does the problem remain?		
Step 12	Go to step 13.	The problem is
Replace the sensor.		solved.
Does the problem remain?		
Step 13	Go to step 14.	The problem is
Reset the printer.		solved.
Does the problem remain?		
Step 14	Go to step 15.	The problem is
Replace the ADF controller board. See <u>"ADF controller board</u>		solved.
removal" on page 520.		
Dees the problem remain?		
Does the problem remain?		

Action	Yes	No
Step 15 Reset the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# ADF pick position failure service check

Action	Yes	No
<b>Step 1</b> Check the ADF pick roller for proper installation.	Go to step 3.	Go to step 2.
Is the pick roller properly installed?		
Step 2 Reinstall the ADF pick roller.	Go to step 3.	The problem is solved.
Does the problem remain?		
<b>Step 3</b> Check the sensor actuator on the ADF pick roller.	Go to step 5.	Go to step 4.
Does the actuator on the pick roller properly trigger the sensor (ADF pick roller index)?		
Step 4 Replace the ADF pick roller. See <u>"ADF maintenance kit removal"</u> on page 516.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the ADF pick roller cover for proper installation.	Go to step 7.	Go to step 6.
Is the cover properly installed?		
Step 6 Reinstall the cover.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the ADF tray lift mechanism for obstructions.	Go to step 9.	Go to step 8.
Is the lift mechanism free of obstructions?		
Step 8 Remove the obstructions.	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 9	Go to step 12.	Go to step 10.
<b>a</b> Enter the Diagnostics menu, and then navigate to:		
Scanner diagnostics > Sensor tests		
<b>b</b> Find the sensor (ADF pick roller index high) and sensor (ADF pick roller index low).		
<b>Note:</b> The sensor (ADF pick roller index) consists of two sensors to detect the high and low positions of the pick roller.		
Does the sensor status change while toggling the sensor?		
Step 10	Go to step 11.	The problem is
Check the sensor cable for proper connection, and then reseat if necessary.		solved.
<ul> <li>Check socket JHINGE1 on the ADF controller board.</li> </ul>		
Check the connector on the sensor.		
Does the problem remain?		
Step 11	Go to step 12.	The problem is
Replace the sensor. See <u>"ADF top door removal" on page 529</u> .		solved.
Does the problem remain?		
Step 12	Go to step 13.	The problem is
Reset the printer.		solved.
Does the problem remain?		
Step 13	Go to step 14.	The problem is
Replace the ADF controller board. See <u>"ADF controller board</u> removal" on page 520.		solved.
Does the problem remain?		
Step 14	Contact the next	The problem is
Reset the printer.	level of support.	solved.
Does the problem remain?		

## Back side scan CCDM failure service check

Action	Yes	No
<b>Step 1</b> Check the HDMI cables on the printer controller board and ADF controller board for proper connection.	Go to step 3.	Go to step 2.
Are the cables properly connected?		
<b>Step 2</b> Reseat the cables.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Check socket JCCDM1 on the ADF controller board for proper connection.	Go to step 5.	Go to step 4.
Is the cable properly connected?		
<b>Step 4</b> Reseat the cable.	Go to step 5.	The problem is solved.
Does the problem remain?		
<b>Step 5</b> Check the ADF CCDM cable for proper connection.	Go to step 7.	Go to step 6.
Is the cable properly connected to the CCDM?		
<b>Step 6</b> Reseat the cable.	Go to step 7.	The problem is solved.
Does the problem remain?		
Step 7 Replace the ADF CCDM. See <u>"ADF scanner CCD removal" on</u> page 536.	Go to step 8.	The problem is solved.
<b>Step 8</b> Reset the printer.	Go to step 9.	The problem is solved.
Does the problem remain?		
Step 9 Replace the ADF controller board. See <u>"ADF controller board</u> removal" on page 520.	Go to step 10.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 10</b> Reset the printer.	Go to step 11.	The problem is solved.
Does the problem remain?		
<b>Step 11</b> Replace the printer controller board. See <u>"Controller board</u> <u>removal" on page 472</u> .	Go to step 12.	The problem is solved.
Does the problem remain?		
Step 12 Reset the printer.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## Procedure before starting the 9yy service checks

You will need to retrieve certain information. This information aids your next level of support in diagnosing the problem before replacing the controller board.

Warning—Potential Damage: Do not replace the controller board unless directed 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 you are working on.

### A. Collecting the history information from the SE menu

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

1 Open a web browser, type http://printer\_IP\_address/se, and then press Enter.

Notes:

- **printer\_IP\_address** is the TCP/IP address of the printer.
- **se** is required to access the printer diagnostic information.
- 2 Click History Information, copy all information, and then save it as a text file.
- **3** E-mail the text file to your next level of support.

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

#### Notes:

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

Diagnostics and troubleshooting

- 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.

### C. Collecting the settings from the menu settings page

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

### Copying the menu settings page from the Embedded Web Server (EWS)

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

- 1 Open a Web browser, type http://printer\_IP\_address, and then press Enter.
- **2** Click Settings, and then select one of the settings pages from the links shown on the page.
- **3** Copy all the information, and then save it as a text file.
- **4** E-mail the text file to your next level of support.

#### Printing the menu settings page

- 1 From the home screen, navigate to:
  - Reports > Menu Settings Page
- 2 Print the menu settings page, and then use Scan to E-mail to send it to your next level of support.

### D. Collecting information from the user

Ask the user for information about the following:

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

### 900 errors

#### 900-909 error messages

Error code	Description	Action
900-909.x x		See <u>"System software error service check" on</u> page 383.

### System software error service check

Different types of 90y.xx errors can occur. There may be a communication problem (bad cable, network connection, and software issues), or a hardware problem with the controller board or ISP (internal solutions port). Check the communication and software problems first. Determine if the problem is constant or intermittent. Use the following troubleshooting procedure to isolate the issue. Take notes as instructed. You will need that information in the event that you need to contact your next level of support.

Before troubleshooting, do the following:

- 1 Perform the "Procedure before starting the 9yy service checks" on page 381.
- 2 Determine the operating system used when the error occurred. If possible, determine whether a PostScript<sup>™</sup> or PCL<sup>™</sup> file was sent to the printer when the error occurred. Ask the customer which Solutions applications are installed on the printer.

Action	Yes	No
Step 1	Go to step 2.	The problem is
Perform a POR.		solved.
Does the error remain?		
Step 2	Go to step 3.	Go to step 6.
<b>a</b> Write down the exact 900.xx error code that appears on the display.		
<b>b</b> Turn off the printer.		
c Clear the print queues.		
<b>d</b> Disconnect all communication cables, and then remove all memory options.		
e Remove any installed ISP.		
<b>f</b> Reset the printer into the Diagnostics menu.		
Does the problem remain?		
Step 3	Go to step 5.	Go to step 4.
Check all the cables on the controller board for proper connection.		
Are the cables properly connected?		
Step 4	Go to step 5.	Go to step 6.
<b>a</b> Reconnect the cables.		
<b>b</b> Reset the printer into the Diagnostics menu.		
Does the problem remain?		

Action	Yes	No
Step 5	Go to step 31.	The problem is
a Replace the controller board. See <u>"Controller board removal"</u> on page 472.		solved.
<b>b</b> Reset the printer.		
<b>Note:</b> If a different error code displays, then go to the service check for that error code.		
Does the problem remain?		
Step 6	Go to step 31.	Go to step 7.
Print the following:		
Error Log		
Menu Settings Page		
Network Settings Page		
Does the problem remain while printing these pages?		
Step 7	Go to step 8.	Go to step 10.
<b>Note:</b> Before performing this step, write down the following information about the file being sent to the printer:		
Application used		
Operating system		
Driver type		
<ul> <li>File type (PCL, PostScript, XPS, etc.)</li> </ul>		
a Reattach the communications cable.		
<b>b</b> Reset the printer.		
<b>c</b> Perform a print job.		
Does the problem remain?		
Step 8	Go to step 9.	Go to step 10.
a Reset the printer.		
<b>b</b> Perform a different print job.		
Does the problem remain?		
Step 9	Go to step 31.	Go to step 10.
<b>a</b> Upgrade the firmware.		
<b>Note:</b> Contact your next level of support for the correct firmware level to use.		
<b>b</b> Reset the printer.		
<b>c</b> Perform a print job.		
Does the problem remain?		

Action	Yes	No
Step 10	Go to step 11.	Go to step 13.
Verify if the printer is an MFP.		
Is the printer an MFP?		
Step 11	Go to step 31.	Go to step 12.
Perform a copy job.		
Does the problem remain?		
Step 12	Go to step 31.	Go to step 13.
Scan a document to the computer.		
Does the problem remain?		
Step 13	Go to step 14.	Go to step 16.
Verify if an optional memory is installed.		
Is there an optional memory installed?		
Step 14	Go to step 15.	Go to step 16.
<b>a</b> Reinstall the memory.		
<b>b</b> Perform a print job.		
Does the problem remain?		
Step 15	Go to step 31.	The problem is
<b>a</b> Install a Sharp memory option. <b>b</b> Perform a		solved.
print job.		
Does the problem remain?		
Step 16	Go to step 17.	Go to step 21.
Verify if a modem is installed.		
Is a modem installed?		
Step 17	Go to step 18.	Go to step 20.
a Reinstall the modem.		
<b>b</b> Reset the printer.		
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 18</li> <li>a Upgrade the firmware if it was not upgraded in a previous step.</li> <li>Note: Contact your next level of support for the correct firmware level to use.</li> <li>b Reset the printer.</li> <li>c Perform a print job.</li> </ul>	Go to step 19.	The problem is solved.
Does the problem remain?	Co to stop 31	The problem is
<ul> <li>Step 19</li> <li>a Replace the modem.</li> <li>b Reset the printer.</li> <li>Does the problem remain?</li> </ul>	Go to step 31.	The problem is solved.
Step 20	Go to step 31.	Go to step 21.
Perform a fax job.		
Does the problem remain?		
<b>Step 21</b> Verify if an ISP option is installed.	Go to step 22.	The problem is solved.
Is an ISP option installed?		
<ul> <li>Step 22</li> <li>a Reinstall the first ISP option.</li> <li>b Reset the printer.</li> <li>Does the problem remain?</li> </ul>	Go to step 24.	Go to step 23.
Step 23	Go to step 24.	Go to step 26.
Perform a job to test the option. Does the problem remain?		
Step 24	Go to step 25.	The problem is
<ul> <li>a Upgrade the firmware if it was not upgraded in a previous step.</li> <li>Note: Contact your next level of support for the correct firmware level to use.</li> <li>b Reset the printer.</li> <li>c Perform a print job.</li> <li>Does the problem remain?</li> </ul>		solved.

Action	Yes	No
Step 25	Go to step 31.	Go to step 26.
<b>a</b> Replace the faulty ISP option.		
<b>b</b> Reset the printer.		
Does the problem remain?		
Step 26	Go to step 27.	The problem is
Verify if there are more ISP options to install.		solved.
Are there more ISP options to install?		
Step 27	Go to step 29.	Go to step 28.
a Install the next ISP option.		
<b>b</b> Reset the printer.		
Does the problem remain?		
Step 28	Go to step 29.	Go to step 26.
Perform a job to test the option.		
Does the problem remain?		
Step 29	Go to step 30.	Go to step 26.
<b>a</b> Upgrade the firmware if it was not upgraded in a previous step.		
<b>Note:</b> Contact your next level of support for the correct firmware level to use.		
<b>b</b> Reset the printer.		
<b>c</b> Send a print job.		
Does the problem remain?		
Step 30	Go to step 31.	Go to step 26.
<b>a</b> Replace the faulty ISP option.		
<b>b</b> Reset the printer.		
Does the problem remain?		

Action	Yes	No
Step 31		
Contact your next level of support.		
Provide the following information:		
• Exact 90y.xx error digits and complete error message		
Printed Menu Settings Page		
Printed Network Settings Page		
Device error log		
A sample print file if the error appears isolated to a single file		
• File/Application used if the error is related to specific print file		
Device operating system		
Driver used (PCL/PS)		
Frequency of the occurrence of the error		

# 9yy errors

### 912–992 error messages

Error code	Description	Action
912.01	An engine error occurred.	Restart the print job. If the error persists,
912.02	An engine error occurred.	then contact the next level of support.
912.04	An engine error occurred.	
912.05	An engine error occurred.	
912.06	An engine error occurred.	
912.07	An engine error occurred.	See <u>"Optional tray communication error</u> service check" on page 391.
912.08	An engine error occurred.	Restart the print job. If the error persists,
912.09	An engine error occurred.	then contact the next level of support.
912.10	An engine error occurred.	Restart the print job. If the error persists,
912.11	An engine error occurred.	then contact the next level of support.
912.12	An engine error occurred.	
912.13	An engine error occurred.	
912.14	An engine error occurred.	
912.15	An engine error occurred.	
912.16	An engine error occurred.	
912.17	An engine error occurred.	
912.18	An engine error occurred.	
912.19	An engine error occurred.	

Error code	Description	Action
912.20	An engine error occurred.	Restart the print job. If the error persists,
912.21	An engine error occurred.	then contact the next level of support.
912.22	An engine error occurred.	
912.28	An engine error occurred.	See <u>"System software error service</u>
912.36	An engine error occurred.	check" on page 383.
912.38	An engine error occurred.	See <u>"Optional tray communication error</u> service check" on page 391.
912.39	An engine error occurred.	See <u>"System software error service</u>
912.49	An engine error occurred.	check" on page 383.
912.52	An engine error occurred.	
912.59	An engine error occurred.	
912.60	An engine error occurred.	
912.75	An engine error occurred.	
912.78	An engine error occurred.	
912.82	An engine error occurred.	
938.04	Supplies security is not enabled.	Restart the print job. If the error persists, then contact the next level of support.
938.05	Controller board failure due to a bad capacitor.	See <u>"System software error service</u> check" on page 383.

Error code	Description	Action
980.01	A validation failure was detected by the Paperport communication device.	See <u>"Optional tray communication error</u> service check" on page 391.
980.02	A framing error or receive buffer overflow was detected by the Paperport communication device.	
980.03	A timeout error was detected by the Paperport communication device.	
980.04	An option failed to echo the last sent communication byte on time.	
980.05	An option declared a link reset.	
980.06	A Paperport prioritizer error was detected. Message from the option device was not read by the prioritizer.	
980.11	A Paperport command response was detected. Response was too large for the communications buffer.	
980.13	An optional device hot plug was detected by the printer. Low-level error occurred at the Paperport.	
980.14	An engine timeout error occurred while waiting for the following:	
	a mechanical reset	
	<ul> <li>an intervention required (IR) to clearafter inserting a tray</li> </ul>	_
980.15	An engine timeout error occurred while waiting for an option to become idle.	
981.91	An Invalid Paperport protocol error occurred.	See <u>"Optional tray communication error</u>
982.92	A Paperport framing error occurred.	service check" on page 391.
982.93	A Paperport overrun error occurred.	
982.94	A Paperport parity error occurred.	
982.95	An Other Paperport error occurred.	
982.96	The Paperport encountered multiple communication errors.	
982.97	An invalid Paperport Echo occurred.	
983.98	An unsupported Paperport command error occurred.	
984.99	An invalid Paperport parameter error occurred.	
992.xx	An option device software error occurred.	

# Optional tray communication error service check

Action	Yes	No
<b>Step 1</b> Check the paper path and trays for paper fragments and partially fed paper.	Go to step 3.	Go to step 2.
Is the paper path free of paper fragments and partially fed paper?		
Step 2 Remove the paper fragments and partially fed paper.	Go to step 3.	The problem is solved.
Does the problem remain?		
Step 3 Make sure that all the trays and tray inserts are properly installed.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Enter the Diagnostics menu, and then navigate to: <b>Input tray quick print</b> Perform the print test on each optional tray.	Go to step 6.	Go to step 5.
Does the error occur in any of the optional trays?		
<ul> <li>Step 5</li> <li>a Remove the optional trays.</li> <li>b Reinstall the optional trays one at a time, and then identify which tray is causing the error.</li> </ul>	Go to step 6.	Contact the next level of support.
Does the error occur in any of the optional trays?		
<b>Step 6</b> Make sure that the interface cable of the affected tray is properly installed.	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the interface cable and its connector pins for damage.	Go to step 9.	Go to step 8.
Is the interface cable free of damage?		
<b>Step 8</b> Replace the optional tray interface cable. See <u>"550</u> sheet tray interface cable removal" on page 597.	Go to step 9.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 9</b> Make sure that the source tray controller board is properly installed. Reseat all the cables on the controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Check the source tray controller board and its connector pins for damage.	Contact the next level of support.	The problem is solved.
Are the tray controller board and its connectors free of damage?		
Step 11 Replace the source tray controller board. See <u>"550</u> sheet tray controller board removal" on page 593.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# **Optional bin hardware errors**

## 316 errors

### **316 error messages**

Error code	Description	Action
316.50	The bin 1 motor (mailbox transport) did not turn on.	See <u>"Mailbox transport drive failure service check" on</u> page 392.
316.51	The bin 1 motor (mailbox transport) did not turn off.	

# Mailbox transport drive failure service check

Action	Yes	No
<b>Step 1</b> Make sure that the optional bin is properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open the optional bin door, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		

Action	Yes	No
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		
Step 6	Go to step 7.	The problem is
a Remove the mailbox left cover. See <u>"Mailbox left cover</u> removal" on page 679.		solved.
<b>b</b> Reseat the cable on the motor (mailbox transport) and on the mailbox controller board.		
Does the problem remain?		
Step 7	Go to step 9.	Go to step 8.
Check the motor (mailbox transport) for improper installation and damage.		
Is the motor properly installed and free of damage?		
Step 8	Go to step 9.	The problem is
Reinstall or replace the motor. See <u>"Motor (mailbox transport)</u> removal" on page 687.		solved.
Does the problem remain?		
Step 9	Go to step 10.	The problem is
Make sure that the controller board of the optional bin is properly installed. Reseat all the cables on the controller board.		solved.
Does the problem remain?		
Step 10	Contact the next	Go to step 11.
Check the bin controller board and its connector pins for damage.	level of support.	
Are the bin controller board and its connectors free of damage?		

Action	Yes	No
Step 11 Replace the bin controller board. See <u>"Mailbox controller board</u> <u>removal" on page 692</u> .	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# 32y errors

### 320–323 error messages

Error code	Description	Action
320.50	The bin 1 motor (staple finisher transport) did not turn on.	See <u>"Staple finisher transport drive failure service check"</u> on page 394.
320.50	The bin 1 motor (SHPF transport) did not turn on.	See <u>"SHPF transport drive jam service check" on</u> page 253.
320.51	The bin 1 motor (staple finisher transport) did not turn off.	See <u>"Staple finisher transport drive failure service check"</u> on page 394.
320.51	The bin 1 motor (SHPF transport) did not turn off.	See <u>"SHPF transport drive jam service check" on</u> page 253.
323.50	The bin 1 motor (staple finisher ejector) did not turn on.	See <u>"Staple finisher ejector drive failure service check" on page 396</u> .
323.50	The bin 1 motor (SHPF ejector) did not turn on.	See <u>"SHPF ejector jam service check" on page 276</u> .
323.51	The bin 1 motor (staple finisher ejector) did not turn off.	See <u>"Staple finisher ejector drive failure service check" on page 396</u> .
323.51	The bin 1 motor (SHPF ejector) did not turn off.	See <u>"SHPF ejector jam service check" on page 276</u> .

# Staple finisher transport drive failure service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		

Action	Yes	No
<b>Step 3</b> Remove the paper fragments and partially fed paper.	Go to step 4.	The problem is solved.
Does the problem remain?		
<b>Step 4</b> Clear the optional bin paper path rollers of any dirt and contamination.	Go to step 5.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
<ul> <li>Step 6</li> <li>a Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>b Reseat the cable on the motor (staple finisher transport) and on the staple finisher controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Check the motor (staple finisher transport) for improper installation and damage.	Go to step 9.	Go to step 8.
Is the motor properly installed and free of damage?		
Step 8 Reinstall or replace the motor. See <u>"Motor (staple finisher/offset</u> stacker transport) removal" on page 616.	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Check the staple finisher drive gear for improper installation and damage.	Go to step 11.	Go to step 10.
Is the drive gear properly installed and free of damage?		
Step 10 Reinstall or replace the gear. See <u>"Staple finisher/offset stacker</u> drive gear assembly removal" on page 621.	Go to step 11.	The problem is solved.
Does the problem remain?		

Action	Yes	No
Step 11 Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board. Does the problem remain?	Go to step 12.	The problem is solved.
Step 12 Check the affected controller board and its connector pins for damage. Are the bin controller board and its connectors free of damage?	Contact the next level of support.	Go to step 13.
Step 13         Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.         Does the problem remain?	Contact the next level of support.	The problem is solved.

# Staple finisher ejector drive failure service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Open all optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		
Step 5	Go to step 6.	The problem is
<b>a</b> Enter the Diagnostics menu, and then navigate to:		solved.
Output bin quick feed > Feed to all bins		
<b>b</b> Touch <b>Single</b> or <b>Continuous</b> .		
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.</li> <li>b Reseat the staple finisher ejector assembly cable on the staple finisher controller board.</li> </ul>	Go to step 7.	The problem is solved.
Does the problem remain?		
<b>Step 7</b> Reseat the cable of the sensor (staple finisher ejector) on the staple finisher controller board.	Go to step 8.	The problem is solved.
Does the problem remain?		
<b>Step 8</b> Check the sensor (staple finisher ejector) for improper installation, contamination, and damage.	Go to step 10.	Go to step 9.
Is the sensor properly installed and free of contamination and damage?		
<b>Step 9</b> Reinstall or replace the sensor. See <u>"Sensor (staple finisher/offset</u>	Go to step 10.	The problem is solved.
stacker ejector) removal" on page 660.		
Does the problem remain?		
<ul> <li>Step 10</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 13.	Go to step 11.
Does the staple finisher ejector assembly operate properly?		
Step 11 Check the ejector assembly for damage.	Go to step 13.	Go to step 12.
Is the ejector assembly free of damage?	Calta atau 12	The much laws in
Step 12Replace the staple finisher ejector assembly. See <u>"Staple finisher/offset stacker ejector assembly removal" on page 657.</u>	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 14.	The problem is solved.
Does the problem remain?		

Action	Yes	No
<b>Step 14</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 15.
Are the bin controller board and its connectors free of damage?		
Step 15 Replace the bin controller board. See <u>"Staple finisher/offset</u> stacker controller board removal" on page 610.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

## 331 errors

### 331 error messages

Error code	Description	Action
331.50	The bin 1 motor (SHPF elevator) did not turn on.	See <u>"SHPF elevator drive failure service check" on</u> page 398.
331.51	The bin 1 motor (SHPF elevator) did not turn off.	

## SHPF elevator drive failure service check

Action	Yes	No
<b>Step 1</b> Make sure that all the optional bins are properly installed.	Go to step 2.	The problem is solved.
inake sure that an the optional bins are properly installed.		
Does the problem remain?		
Step 2	Go to step 4.	Go to step 3.
Clean all the optional bin doors, and then check the paper path and bins for paper fragments and partially fed paper.		
Is the paper path free of paper fragments and partially fed paper?		
Step 3	Go to step 4.	The problem is
Remove the paper fragments and partially fed paper.		solved.
Does the problem remain?		
Step 4	Go to step 5.	The problem is
Clear the optional bin paper path rollers of any dirt and contamination.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 5</li> <li>a Enter the Diagnostics menu, and then navigate to:</li> <li>Output bin quick feed &gt; Feed to all bins</li> <li>b Touch Single or Continuous.</li> </ul>	Go to step 6.	The problem is solved.
Does the problem remain?		
Step 6a Remove the SHPF left cover. See <u>"Staple, hole punch finisher</u> left cover removal" on page 724.	Go to step 7.	The problem is solved.
<b>b</b> Reseat the cable on the motor (SHPF elevator). Does the problem remain?		
<b>Step 7</b> Check the SHPF elevator drive for improper installation and damage.	Go to step 9.	Go to step 8.
Is the elevator drive properly installed and free of damage?		
Step 8 Reinstall or replace the elevator drive. See <u>"Staple, hole punch</u> finisher elevator drive removal" on page 747.	Go to step 9.	The problem is solved.
Does the problem remain?		
<b>Step 9</b> Make sure that the controller board of the affected optional bin is properly installed. Reseat all the cables on the controller board.	Go to step 10.	The problem is solved.
Does the problem remain?		
<b>Step 10</b> Check the affected controller board and its connector pins for damage.	Contact the next level of support.	Go to step 11.
Are the bin controller board and its connectors free of damage?		
Step 11 Replace the bin controller board. See <u>"Staple, hole punch finisher</u> controller board removal" on page 730.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

# **Other symptoms**

# **Base printer symptoms**

### **Base printer symptoms**

Symptom	Action
The printer is not communicating with the network host.	See <u>"Network service check" on page 400</u> .

### **Network service check**

Action	Yes	No
Step 1	Go to step 2.	Go to step 3.
Check if the printer is using an Ethernet network.		
Is the printer using an Ethernet network?		
Step 2	Go to step 4.	The problem is
Make sure that the Ethernet cable is properly connected at both ends.		solved.
Does the problem remain?		
Step 3	Go to step 4.	The problem is
<b>a</b> Make sure that the printer is not physically connected to a wired LAN.		solved.
<b>b</b> If the printer is connected using an Ethernet connection, then unplug the cable from the printer, and then perform a POR to connect the printer to a wireless network.		
Does the problem remain?		
Step 4	Go to step 6.	Go to step 5.
<ul> <li>a From the home screen, navigate to Settings &gt; Network/Ports</li> <li>&gt; Active Adapters.</li> </ul>		
<b>b</b> Check if the adapter that appears matches the adapter used in the printer.		
Do the adapters match?		
Step 5	Go to step 6.	The problem is
Change the active adapter setting to match the adapter used in the printer.		solved.
Does the problem remain?		

Action	Yes	No
<ul> <li>Step 6</li> <li>a Check the online status of the printer under Printers and Faxes on the host computer.</li> <li>b Delete all print jobs in the print queue.</li> </ul>	Go to step 8.	Go to step 7.
Is the printer online and in the Ready state?		
Step 7 Change the printer status to Online.	Go to step 8.	The problem is solved.
Does the problem remain?		
Step 8 Check the printer IP address on the Network Settings Page. Does it match the IP address in the port of the drivers using the printer?	Go to step 13.	Go to step 9.
Step 9 Check if the printer uses a static IP address on a network. Is the printer using a DHCP IP address?	Go to step 10.	Go to step 12.
Step 10 Check the first two segments of the IP address. Does the IP address start with 169.254?	Go to step 11.	Go to step 12.
Step 11 Perform a POR. Does the problem remain?	Go to step 13.	The problem is solved.
Step 12 Reset the IP address on the printer to match the IP address on the driver.	Go to step 13.	The problem is solved.
Does the problem remain?		
<b>Step 13</b> Check if the printer and computer IP addresses have the same subnet address.	Go to step 15.	Go to step 14
Does the printer and computer IP addresses have the same subnet address?		

Action	Yes	No
<ul><li>Step 14</li><li>Using the subnet address supplied by the network administrator, assign a unique IP address to the printer.</li><li>Note: The printer IP address should match the IP address on the print driver.</li></ul>	Go to step 15.	The problem is solved.
Does the problem remain?		
<b>Step 15</b> Check if the printer is physically connected to the network.	Go to step 16.	Go to step 23.
Is the printer physically connected to the network?		
<b>Step 16</b> Use a different Ethernet cable.	Go to step 17.	The problem is solved.
Does the problem remain?		
<b>Step 17</b> Have the network administrator check the network drop for activity.	Go to step 19.	Go to step 18.
Is the network drop functioning properly?		
Step 18 Try a known and functioning network drop.	Go to step 19.	The problem is solved.
Does the problem remain?		
<b>Step 19</b> Check if the bulit-in Ethernet port on the controller board is used to connect to the network.	Go to step 22.	Go to step 20.
Is the built-in Ethernet port on the controller board used to connect to the network?		
<b>Step 20</b> Make sure that the option Ethernet card is properly installed, and reseat if necessary	Go to step 21.	The problem is solved.
Does the problem remain?		
<b>Step 21</b> Replace the option Ethernet card.	Go to step 22.	The problem is solved.
Does the problem remain?		
Step 22 Replace the controller board. See <u>"Controller board removal" on</u> page 472.	Contact the next level of support.	The problem is solved.
Does the problem remain?		

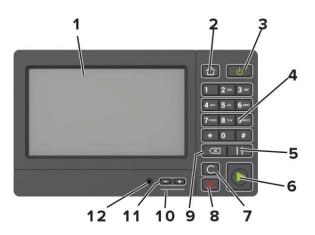
Action	Yes	No
Step 23	Go to step 25.	Go to step 24.
Check if the printer is on the same wireless network as the other devices.		
Is the printer on the same wireless network as the other devices?		
Step 24	Go to step 25.	The problem is
Assign the correct wireless network to the printer.		solved.
Does the problem remain?		
Step 25	Go to step 26.	Contact the network
Check if the other devices on the wireless network are properly communicating.		administrator.
Are the other devices on the wireless network properly communicating?		
Step 26	Go to step 27.	The problem is
Make sure that the wireless card on the printer is properly installed.		solved.
Does the problem remain?		
Step 27	Go to step 28.	Go to step 29.
Check if an antenna is attached to the wireless card.		
Is an antenna attached to the wireless card?		
Step 28	Go to step 29.	The problem is
Check the antenna for proper installation and damage, and replace if necessary.		solved.
Does the problem remain?		
Step 29	Go to step 30.	The problem is
Replace the wireless card.		solved.
Does the problem remain?		
Step 30	Contact the next	The problem is
Replace the controller board. See <u>"Controller board removal" on</u> page 472.	level of support.	solved.
Does the problem remain?		

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# Service menus

# Understanding the printer control panel

# Using the control panel



	Use the	То
1	Display	<ul> <li>View the printer messages and supply status.</li> </ul>
		<ul> <li>Set up and operate the printer.</li> </ul>
2	Home button	Go to the home screen.
3	Power button	• Turn on or turn off the printer.
		<b>Note:</b> To turn off the printer, press and hold the power button for five seconds.
		Set the printer to Sleep or Hibernate mode.
		Wake the printer from Sleep or Hibernate mode.
4	Keypad	Enter numbers or symbols in an input field.
5	Pause button	Place a dial pause in a fax number.
6	Start button	Start a job, depending on which mode is selected.
7	Clear all or Reset button	Reset the default settings of a function such as copying, faxing, or scanning.
8	Stop or Cancel button	Stop the current job.
9	Backspace button	Move the cursor backward and delete a character in an input field.
10	Indicator light	Check the status of the printer.
11	Volume buttons	Adjust the volume of the headset or speaker.
12	Headset or speaker port	Attach a headset or speaker.

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
Power button light Off	Printer status The printer is off, ready, or processing data.

# Understanding the status of the power button and indicator light

# Using the home screen

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



Touch	١	То
1	Сору	Make copies.
2	E-mail	Send e-mails.
3	Settings	Access the printer menus.
4	Fax	Send fax.
5	Address Book	Manage a contact list that other applications on the printer can access.
6	Status/Supplies	<ul> <li>Show a printer warning or error message whenever the printer requires intervention to continue processing.</li> <li>View more information on the printer warning or message, and on how to clear it.</li> </ul>
		<b>Note:</b> You can also access this setting by touching the top section of the home screen.

Touch		То
7	USB Drive	<ul> <li>Print photos and documents from a flash drive.</li> </ul>
		<ul> <li>Scan photos and documents to a flash drive</li> </ul>
8	Job Queue	Show all the current print jobs.
		<b>Note:</b> 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.

# **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.

Do either of the following:

- To access the Diagnostics menu from the home screen, press \* \* 3 6 on the control panel. This method is preferable.
- To access the Diagnostics menu without running the POST tests:
  - 1 Press and hold the **3** and **6** buttons while turning on the printer.
  - 2 Release the buttons when the splash screen appears.

## Reports

### **Device Settings**

This report lists all the current printer settings.

Enter the Diagnostics menu, and then navigate to:

**Reports > Device Settings** 

### **Installed Licenses**

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

Enter the Diagnostics menu, and then navigate to:

Service menus

**Reports > Installed Licenses** 

## **Advanced Print Quality Samples**

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

Enter the Diagnostics menu, and then navigate to:

Advanced Print Quality Samples > Advanced Print Quality Test Pages

# **Format Fax Storage**

This setting deletes stored fax jobs.

- 1 Enter the Diagnostics menu, and then navigate to: Format Fax Storage > Format Fax Storage
- 2 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

### 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

2 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
- 2 Touch Start.

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

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### Mark Log

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

1 Enter the Diagnostics menu, and then navigate to:

Event Log > Mark Log

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

## Input tray quick print

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

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

## Output bin quick feed

This setting allows you to send a single or continuous test page to a bin.

- 1 Enter the Diagnostics menu, and then touch **Output bin quick feed**.
- 2 Select where you want to send the test page.
- **3** Select whether to send a single or continuous test page, and then touch **Start**.

## **Printer Setup**

### Printed page count (mono)

This setting displays the amount of pages printed in mono.

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

### 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 touch **Printer Setup**.
- 2 View the permanent page count.

### Enable edge-to-edge (printing)

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

Service menus

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

1 Enter the Diagnostics menu, and then navigate to:

#### Printer Setup > Enable edge-to-edge (printing)

2 Select a setting to adjust.

Note: This feature does not work in PPDS emulation.

### Enable edge-to-edge (copy)

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

1 Enter the Diagnostics menu, and then navigate to:

```
Printer Setup > Enable edge-to-edge (copy)
```

2 Select a setting to adjust.

#### **Processor ID**

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

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

### Engine setting [x]

Warning—Potential Damage: 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.

1 Enter the Diagnostics menu, and then navigate to:

```
Printer Setup > Engine setting [x]
```

2 Select a setting, enter a value, and then touch **OK**.

Service menus

### **EP** setup

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

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

1 Enter the Diagnostics menu, and then navigate to:

### Printer Setup > EP setup

2 Select a setting.

# Printer diagnostics and adjustments

### **Sensor tests**

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

A dialog listing the sensor tests appears.

**3** Find, and then manually toggle the sensor.

#### Notes:

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

### List of sensor tests

PF media present	
edia out (tray 1)	
ck roller index (tray 1)	
ck (tray 1)	
ay 1 pass-through	
put	
arrow media	
iser exit	
uplex path	
uplex interlock	
utput bin full	
ont door interlock	
ear door interlock	
edia size (tray [x]) switch [x]	

### **Motor tests**

1 Enter the Diagnostics menu, and then navigate to:

#### Printer diagnostics & adjustments > Motor tests

2 Select a motor, and then touch Start.

#### Notes:

- If the motor 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

MPF pick
Pick (tray 1) picking
Pick (tray 1) lifting
Fuser (fusing)
Fuser (retracting)
Duplex
Redrive (forward)
Redrive (reverse)
Imaging unit
K toner add
Fan (main)
Fan (cartridge)

### **Registration adjust**

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

1 Enter the Diagnostics menu, and then navigate to:

### Printer diagnostics & adjustments > Registration adjust

2 Select a setting to adjust.

### Add-on cards tests

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

1 Enter the Diagnostics menu, and then navigate to:

### Printer diagnostics & adjustments > Add-on cards tests

2 Select a card.

Service menus

### **Margin Offset**

This setting allows you to adjust the margin offset and to print or reset the default settings.

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

### **Universal Override**

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

1 Enter the Diagnostics menu, and then navigate to:

### Printer diagnostics & adjustments > Universal Override

2 Select a setting to adjust.

## Additional input tray diagnostics

### Sensor tests

- 1 Enter the Diagnostics menu, and then touch Additional input tray diagnostics.
- 2 From the Sensor tests section, touch Start.

A dialog listing the sensor tests appears.

**3** Find, and then manually toggle the sensor.

### Notes:

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

### Motor tests

1 Enter the Diagnostics menu, and then navigate to:

### Additional input tray diagnostics > Motor tests

2 Select a motor, and then touch Start.

### Notes:

- 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.

## **Output device diagnostics**

### Staple test

**Note:** This menu appears only when a finisher is installed.

- Enter the Diagnostics menu, and then navigate to:
   Output device diagnostics > Staple test
- 2 Select a staple job, and then check the output for any issues.

### **Sensor tests**

- Enter the Diagnostics menu, and then navigate to:
   Output device diagnostics > Sensor tests
- **2** Select the output device where the sensor is located.
- **3** Find, and then manually toggle the sensor.

### Notes:

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

### **Scanner diagnostics**

### **Motor tests**

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

### Scanner diagnostics > Motor tests

2 Select a motor, and then touch Start.

### Notes:

- 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
Run ADF Transport Backward
ADF Stop Transport

ADF Pick	
Raise ADF Tray	
ower ADF Tray	
ADF Deskew On	
ADF Deskew Off	
ADF Calibration	

### Sensor tests

This test verifies the status of the scanner sensors.

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

A dialog listing the sensor tests appears.

**3** Find, and then manually toggle the sensor.

#### Notes:

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

#### List of sensor tests

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

### **Multifeed calibration**

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

### **Feed Test**

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

1 Enter the Diagnostics menu, and then navigate to:

### Scanner diagnostics > Feed Test

- **2** Select a paper size.
- **3** From the Feed Test section, 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 <u>"Cleaning the scanner" on page 796</u>.

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

To verify the result, do the following:

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

### Notes:

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

### **Controller Calibration**

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

1 Enter the Diagnostics menu, and then navigate to:

Scanner Diagnostics > Controller Calibration

2 Touch Start.

## **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.
USB Configuration 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).

**Note:** An asterisk (\*) next to a value indicates the factory default setting.

Menu item	Description
USB Configuration USB Speed Full Auto*	Set the USB port to run at full speed and disable its high-speed capabilities.
<b>Tray Configuration</b> 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 Only for unknown sizes* Always	Show the <b>Tray Insert</b> message.
Tray Configuration A5 Loading Short Edge* Long Edge	Specify the page orientation when loading A5-size paper.
Tray Configuration Paper Prompts Auto* Multipurpose Feeder Manual Paper Envelope Prompts Auto* Multipurpose Feeder Manual Envelope	Set the paper source that the user fills when a prompt to load paper or envelope appears. <b>Note:</b> For Multipurpose Feeder to appear, set Configure MP to Cassette from the Paper menu.
Tray Configuration Action for Prompts Prompt user* Continue Use current	Set the printer to resolve paper- or envelope-related change prompts.
<b>Reports</b> Menu Settings Page Event Log Event Log Summary	Print reports about printer menu settings, status, and event logs.
Supply Usage And Counters Clear Supply Usage History Reset Black Cartridge Counter Reset Black Imaging Unit Counter Reset Maintenance Counter	Reset the supply page counter or view the total printed pages.

Set the printer to recognize and use the PPDS data stream.
Set the fax chip to enter low-power mode whenever the printer determines that it should.
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.
Adjust the toner density when printing or copying documents.
Set the printer to operate in Quiet Mode.
Enable access to the control panel menus.
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 for a two-sided print job.
Set the memory allocation for storing copy jobs. <b>Note:</b> The values appear only if the amount of installed DRAM is at least twice the amount of the value.
Erase user-defined strings for the Default or Alternate custom messages.

Menu item	Description		
Device Operations Clear all remotely-installed messages	Erase messages that were remotely installed.		
Device Operations Automatically Display Error Screens On* Off	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.		
Device Operations Honor orientation on fast path copy Off* On	Enable the printer to use the Orientation setting under the Copy menu when sending quick copy jobs.		
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 ADF Edge Erase 0–6 (3*) Flatbed Edge Erase 0–6 (3*)	Set the size, in millimeters, of the no-print area around an ADF or flatbed scan job.		
Scanner Configuration Disable Scanner Enabled* Disabled ADF Disabled	Disable the scanner if it is not working properly.		
Scanner Configuration Scanner Manual Registration Print Quick Test	Print a test page that shows the scanner margin settings.		
Scanner Configuration Tiff Byte Order CPU Endianness* Little Endian Big Endian	Determine 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		

# Entering invalid engine mode

This mode is used if the machine has invalid code and needs the correct code loaded. After entering this mode, the firmware code can be updated.

- 1 Turn off the printer.
- 2 Press and hold the 3, 4, and 6 buttons simultaneously.
- **3** Turn on the printer.
- **4** Release the buttons after 10 seconds.

## **Entering recovery mode**

This mode will allow the printer to boot from a secondary set of instructions to allow a code flash to the printer. Code can be flashed from a PC by USB.

- 1 Turn off the printer.
- 2 Press and hold the 7, 2, and 8 buttons simultaneously.
- **3** Turn on the printer.
- **4** Release the buttons after 10 seconds.

## Accessing the Network SE menu

This menu contains settings for fine-tuning the communication settings for the network interfaces and protocols.

1 Navigate to:

Networks/Ports > Standard Network > Std Network Setup

2 Press and hold the 6, 7, and 9 buttons simultaneously.

## Service Engineer menu

## Accessing the service engineer (SE) menu

From a Web browser on a host PC, add **/se** to the printer IP address.

## Service engineer (SE) menu

This menu should be used as directed by the next level of support.

Top-level menu	Intermediate menu
Print SE Menus	
General	Copyright — Displays copyright information

Top-level menu	Intermediate menu
Code	Network code level — Displays network code level
	Network Compile Info — Displays network compile information
	Printer Code Level — Displays printer code information
	Printer Compile Info — Displays compile information
History	Print History
	Mark History
	History Mode
MAC	Set Card Speed
	• Set LAA
	• Keep Alive
NVRAM	Dump NVRAM
	Reinit NVRAM
NPAP	Print Alerts
тср/ір	• netstat-r
	• arp-a
	Allow SNMP Set
	• MTU
	Meditech Mode
	RAW LPR Mode
	Gather Debug
	Enable Debug

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# **Parts removal**

## **Removal precautions**

**CAUTION—SHOCK HAZARD:** This product uses a soft 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.

## 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 printerspecific 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.

Parts removal

**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. After removing the faulty hard disk on the customer premises, please hand the disk to the customer. You must obtain and save the customer's signature on a document that states that you have handed the faulty hard disk to the customer.
- 2. If the customer prefers not to take it hard disk, return it back to your team leader/manager for physical destruction. You must obtain and save the customer's signature on a document that states that customer agreed physical destruction to faulty hard disk by your company in line with the customer service agreement.

## Handling ESD-sensitive parts

Many electronic products use parts that are known to be sensitive to electrostatic discharge (ESD). To prevent damage to ESD-sensitive parts, do the following:

- Turn off the printer before removing logic boards.
- Keep the parts in their original packing material until you are ready to install them into the printer.
- Make the least possible movements with your body to prevent an increase of static electricity from clothing fibers, carpets, and furniture.
- Put the ESD wrist strap on your wrist. Connect the wrist band to the system ground point. This action discharges any static electricity in your body to the printer.
- Hold the parts by their edge connector shroud. Do not touch its pins. If you are removing a pluggable module, then use the correct tool.
- If possible, keep all parts in a grounded metal cabinet.
- Do not place the parts on the printer cover or on a metal table. If you need to put down the parts, then put them into their packing material.
- Prevent parts from being accidentally touched by other personnel. Cover the printer when you are not working on it.
- Be careful while working with the parts when cold-weather heating is used. Low humidity increases static electricity.

## 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—RISQUE DE BLESSURE : 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'incinérez pas une batterie lithium. Mettez les batteries lithium usagées au rebut selon les instructions du fabricant et les réglementations locales.



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

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

Warning—Potential Damage: 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—Potential Damage:** 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—Potential Damage:** Some printers will perform automatically a POR 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 reinstall the old part.
  - If the problem is resolved—Perform a POR.

Descriptions in page 426 to 428 are not applicable to this model. Therefore it was deleted.

## Updating the printer firmware

**Warning—Potential Damage:** Before updating the printer firmware, ask the next level of support for the correct code. Using an incorrect code level may damage the printer.

The printer must be in ready state in order to update the firmware.

### Using a flash drive

This option is available only in printer models with front USB port.

Make sure to enable the Enable Drive and Update Code settings. You can find the settings in the Flash drive menu under the Settings menu.

- 1 Insert the flash drive into the USB port.
- 2 From the control panel, navigate to USB Menu: Print from USB > Accept or OK.
- **3** Select the file that you need to flash.

Note: Do not turn off the printer while the update is going on.

### Using a network computer

### Using the File Transfer Protocol (FTP)

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

- 1 Turn on the printer.
- **2** Obtain the IP address:
  - From the home screen
  - From the TCP/IP section of the Network/Ports menu
- **3** From the command prompt of a network computer, open an FTP session to the printer IP address.
- **4** Use a PUT command to place the firmware file on the printer.

The printer performs a POR sequence and terminates the FTP session.

**5** Repeat 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 the printer.

- 1 Open a web browser, and then type the printer IP address.
- **2** From the home page, navigate to **Configuration** > **Update Firmware**.
- **3** Select the file to use.

The printer performs a POR sequence and terminates the FTP session.

**4** Repeat step 2 through step 4 for the other files.

## Backing up eSF solutions and settings

Note: Export the eSF solutions and settings from the printer before replacing the controller board.

### Exporting eSF solutions and settings file

- 1 Reset the printer into Invalid engine mode. See <u>"Entering invalid engine mode" on page 420</u>.
- 2 Open a web browser, and then type the printer IP address.

**Note:** If the web page cannot be accessed or an error occurs when starting the printer into Invalid engine mode, then data backup is not an option. Inform the customer that the data cannot be saved.

- **3** Navigate to **Settings > Solutions > Embedded Solutions**.
- 4 From the Embedded Solutions page, select the applications that you want to export.
- 5 Click Export.

Note: The size limit of the export file is 128 KB.

Parts removal

### Importing eSF solutions and settings file

After replacing the controller board, import back to the printer the eSF solutions and settings that were exported.

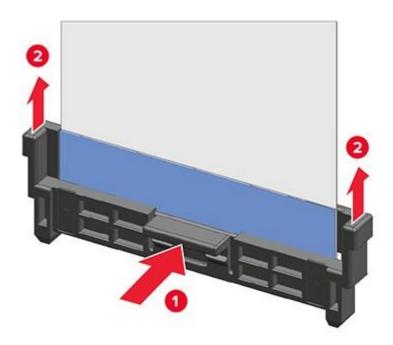
- 1 Reset the printer into Invalid engine mode. See <u>"Entering invalid engine mode" on page 420</u>.
- **2** Open a web browser, and then type the printer IP address.

**Note:** If the web page cannot be accessed or an error occurs when starting the printer into Invalid engine mode, then data backup is not an option. Inform the customer that the data cannot be saved.

- **3** Navigate to **Settings > Solutions > Embedded Solutions**.
- 4 From the Embedded Solutions page, select the applications that you want to import.
- 5 Click Import.

## **Disconnecting ribbon cables**

**Warning—Potential Damage:** The ribbon cable and its socket may get damaged if it is not properly disconnected. When disconnecting the cable, hold its connector and press its tab before unplugging it.



## Adjustments

## **Registration adjustment**

The allowable image skew on the test page is one dot (0.5 mm) or less delta measured between the left and right alignment indicators for the top and bottom margins.

Lexmark T656 Quick Test Device Information stalled Memory d ID on Lei inter Margin Settin nin Settinas Margin = U Horizontal Adjust = O Top Margin = O st = 0 Paper Source = Tray 1 Formatted Size = Letter Alignment indicator The amount of skew may vary from sheet to sheet, so multiple test pages may need to be printed.

Note: The following sample test page shows the alignment indicators at the bottom margin.

### Generating a test page for margin alignment

**Note:** Before printing a test page, make sure that the paper guides on the source tray are positioned correctly. The test page should be printed only on Letter or A4 paper from tray 1.

- 1 From the home screen, press **\*\*36** to enter the Diagnostics menu.
- 2 Navigate to:

#### Printer diagnostics & adjustments > Registration adjust > Quick test

A test page showing the margins is generated.

- **3** Review the test page to check for skews at the alignment indicators.
  - The alignment indicator arrows must be completely visible along the edge.
  - The tip of the arrows must point to the edge.

Parts removal

If the top margin is skewed (or if the aligner rollers have been replaced), then see <u>"Aligner roller adjustment"</u> on page 433.

If both the top and bottom margins are skewed (or mostly the bottom margin), then do the following:

- Adjust the aligner roller to make the leading edge parallel with the trailing edge. See <u>"Aligner roller</u> <u>adjustment" on page 433</u>.
- Adjust the printhead to align both margins. See <u>"Polygon printhead mechanical registration</u> adjustment" on page 435.
- The aligner roller may need adjustment again after the bottom skew is aligned.

## Aligner roller adjustment

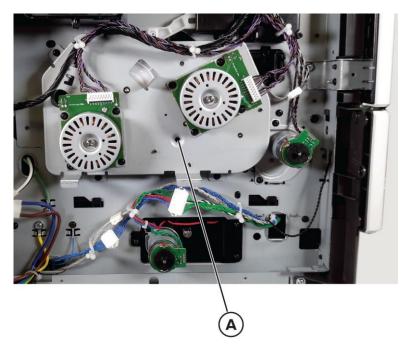
Perform the aligner roller adjustment after replacing the aligner roller. Always print a copy of the Quick Test Page before making any adjustments to the aligner roller.

**Note:** When replacing the aligner roller, unscrew the reference adjustment screw just far enough to remove the old aligner roller and install the new one. It is not necessary to completely remove the screw.

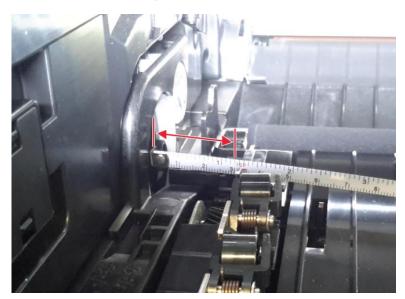
- If you have just replaced the aligner roller, see Step A.
- If you are only correcting the top margin skew, see Step B.
- If you are correcting the bottom margin skew or both top and bottom margin skews, see Step C.

### Step A

Set the initial position of the aligner roller plate using a 3-mm hex wrench at the aligner roller reference adjustment screw (A).



Adjust the screw until the aligner roller plate is offset by 31 mm as shown in the following image. This setting is the nominal point to minimize the amount of adjustment needed.

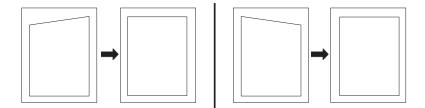


Continue to Step B.

### Step B

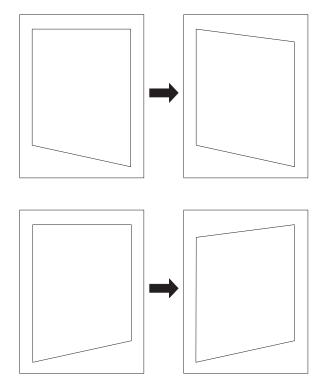
Print a Quick Test Page, and then check the top alignment indicators on the test page. The difference in the print location to the top edge of the paper between the left and right alignment indicators should be 0.5 mm (one dot) or less. Depending on the skew, turn the screw either clockwise or counterclockwise using a 3-mm hex wrench, and print a copy of the Quick Test Page to check the arrow indicators on the top and bottom margins. Continue adjusting the screw as you check the results of each adjustment on a new test page until the top image skew is below 0.5 mm. One full 360-degree turn of the aligner screw changes the top edge skew by roughly 1 mm (2 alignment indicator dots).

Adjustment is typically 0–2 rotations. More than 3–4 turns, in either direction from the 31 mm nominal spot, is not necessary and may indicate other issues with the tray (such as problems with the tray paper guides, pick rollers, or transfer roller). If the top and bottom skew are below 0.5 mm, then the alignment process is complete.



### Step C

Print a Quick Test Page, and then check the top and bottom alignment indicators on the test page. The goal is to make the skew at the top and bottom of the page parallel. Depending on the skew, turn the screw either clockwise or counterclockwise using a 3-mm hex wrench, and print a Quick Test Page to check the arrow indicators on the top and bottom margins. Continue adjusting the screw as you check the results of each adjustment on a new test page until you obtain the results you want. One full 360-degree turn of the aligner adjustment screw changes the leading edge skew by roughly 1 mm (2 alignment indicator dots).



After the aligner roller adjustment is done, perform the polygon printhead mechanical registration adjustment. See <u>"Polygon printhead mechanical registration adjustment" on page 435</u>.

## Polygon printhead mechanical registration adjustment

Perform the printhead mechanical registration adjustment procedure after you remove or replace the printhead, or loosen the mounting screws.

Install the new printhead with the mounting screws lightly tightened before printing the Quick Test Page to see if adjustment is needed.

To perform the printhead mechanical registration adjustment:

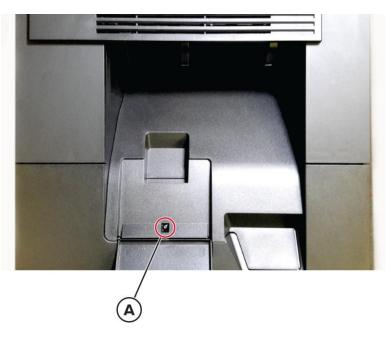
1 Print a Quick Test Page.

From the Diagnostics menu, navigate to:

### Printer diagnostics & adjustments > Registration adjust > Quick test

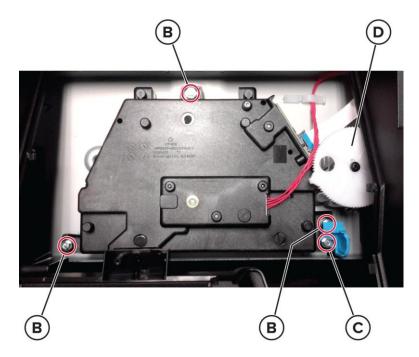
If the skew between the bottom left and bottom right alignment indicators is greater than 0.5 mm (1 dot), then proceed with adjustment. Otherwise, printhead adjustment is not needed.

**2** Remove the screw (A) under the bin extender, and then remove the cover.

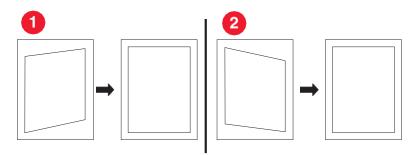


**3** Loosen, by a half turn, each of the three printhead mounting screws (B) securing the printhead to the printer frame. Use a 5.5-mm hex-socket screwdriver.

**4** Loosen the printhead alignment lock screw (C). With the printhead unlocked, its alignment can now be adjusted by the printhead adjustment wheel (D).



5 Check the Quick Test Page for any sign of misalignment by checking the alignment indicators at the bottom left and bottom right of the test page for equal distance from the bottom of the page. If necessary, rotate the printhead adjustment wheel either clockwise (to rotate the image clockwise) or counterclockwise (to rotate the image counterclockwise), and then print another Quick Test Page. You may need to repeat this step two times or more before you get satisfactory bottom skew results.



To correct, turn the printhead adjustment wheel clockwise to rotate both edges clockwise.
 To correct, turn the printhead adjustment wheel counterclockwise to rotate both edges counterclockwise.

**Warning—Potential Damage:** Do not rotate the printhead adjustment wheel at a full clockwise or counterclockwise turn.

**Warning—Potential Damage:** In some cases the adjustment process may take several cycles of tightening and loosening of the printhead mounting screws. Care should be taken to avoid stripping the mounting screw bosses. Use only a manual hex head screwdriver to avoid damage.

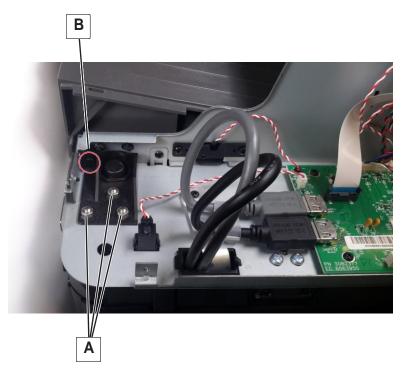
- **6** When you have the correct alignment, ensure that the printhead alignment screw is properly tightened, and then print a final Quick Test Page for verification.
- 7 Check the top edge skew and perform the aligner roller adjustment if required. See <u>"Aligner roller</u> <u>adjustment" on page 433</u>.

### **ADF skew adjustments**

**Note:** Before you start any of the ADF skew adjustment procedures, make sure the <u>"Aligner roller</u> <u>adjustment" on page 433</u> has been properly performed.

### ADF skew adjustment (front side)

- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- **2** Remove the scanner glass cushion.
- **3** Loosen, but do not remove the three nuts (A) securing the adjusting bracket to the ADF frame.
- **4** Turn the skew adjustment screw (B) clockwise for positive skew or counterclockwise for negative skew.

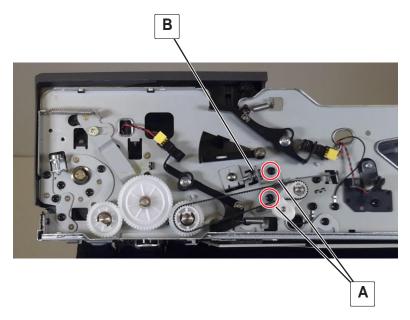


#### Notes:

- Do not completely remove the nuts or screws when performing this adjustment.
- Each full turn of the adjustment screw yields 0.3 mm of skew correction. The maximum adjustment is two full turns either way.
- **5** After the skew has been corrected, tighten the three nuts, and then reinstall the ADF rear cover.

### ADF skew adjustment (back side)

- 1 Remove the ADF front cover. See <u>"ADF front cover removal" on page 521</u>.
- **2** Loosen the two screws (A) securing the adjusting bracket to the ADF frame.
- **3** Turn the skew adjustment screw (B) clockwise for negative skew or counterclockwise for positive skew.



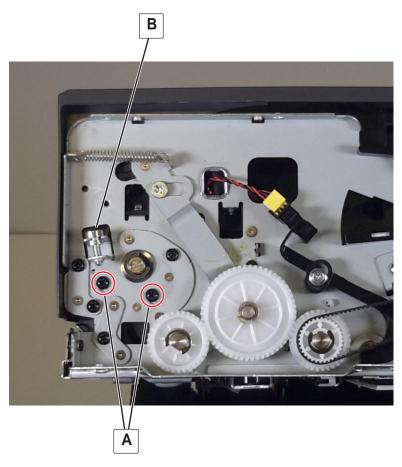
**Note:** Each full turn of the adjustment screw yields 0.6 mm of skew correction. The maximum adjustment is one full turn either way.

**4** After the skew has been corrected, tighten the two screws, and then reinstall the ADF front cover.

### ADF skew adjustment (deskew roller)

- 1 Remove the ADF front cover. See <u>"ADF front cover removal" on page 521</u>.
- **2** Loosen the two screws (A) securing the adjusting bracket to the ADF frame.

**3** Turn the skew adjustment screw (B) clockwise for negative skew or counterclockwise for positive skew.

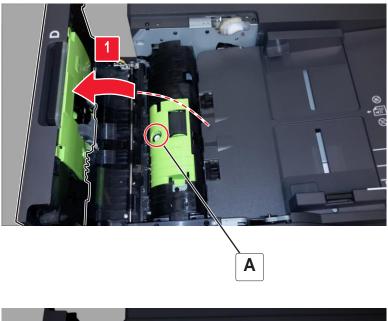


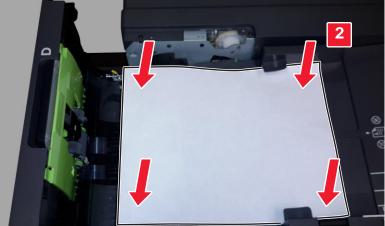
**4** After the skew has been corrected, tighten the two screws, and then reinstall the ADF front cover.

### Sensor (ADF multifeed) calibration

The sensor (ADF multifeed) detects the air gaps between sheets to detect double feeds. Perform this procedure after replacing the sensor or if there are double feed issues in the ADF.

1 Open door D, and then cover the sensor (A) with a sheet of paper (16–20 lb).





- **2** Close the door.
- **3** Enter the Diagnostics menu, and then touch **Scanner diagnostics**.
- **4** Select Multifeed Calibration, and then touch **Start**.

# **Removal procedures**

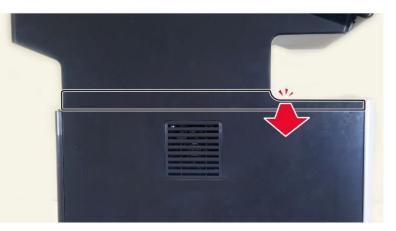
Keep the following tips in mind as you replace parts:

- 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 trim cover removal

1 Release the cover at the point shown.



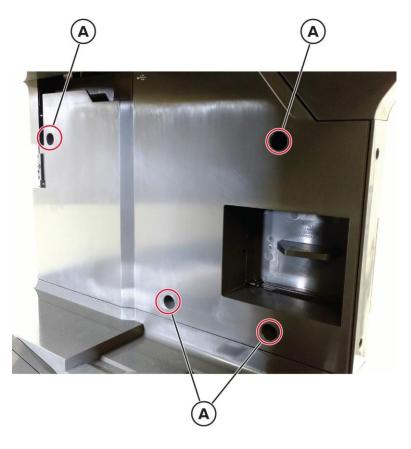
**2** Carefully pull the cover, and then remove it.

## Left inner column cover removal

1 Remove the keyboard option cover.



**2** From the inner left side, remove the four screws (A).



Parts removal **443**  **3** Release the rear side of the cover.



**4** Release the front side of the cover.

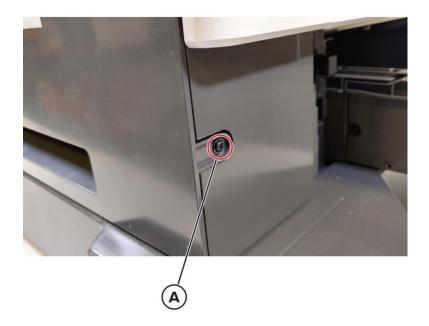


**5** Remove the cover.

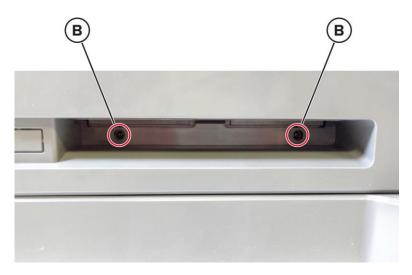
### Left cover removal

1 Remove the front door. See <u>"Front door removal" on page 483</u>.

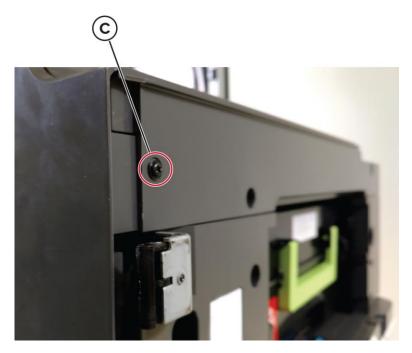
Pull out tray 1, and then remove the screw (A).



Remove the two bottom screws (B).



**4** Remove the screw(C).



**5** Release the front side of the cover.



**6** Release the top side of the cover.



7 Remove the cover.



Parts removal

7464, 7465

Parts removal

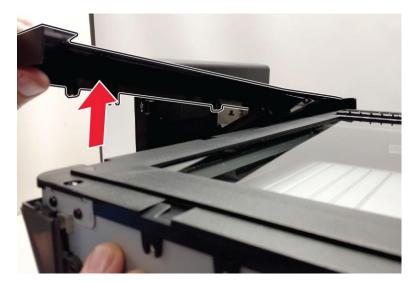
448

## Left outer column cover removal

1 Behind the control panel, remove the cover.

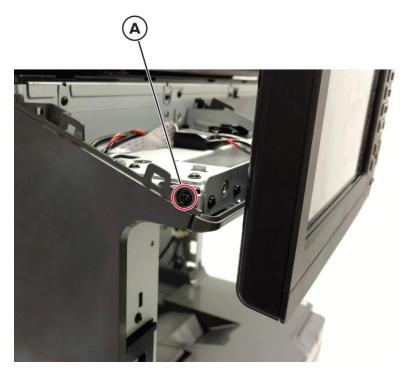


**2** Remove the scanner front upper cover.



Parts removal

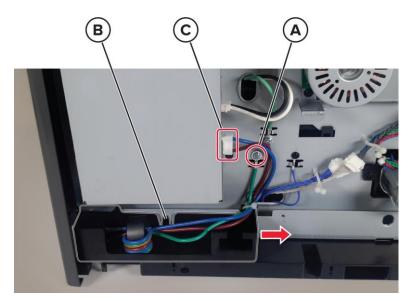
#### **3** Remove the screw (A).



**4** Remove the two bottom screws (B), and then remove the cover.

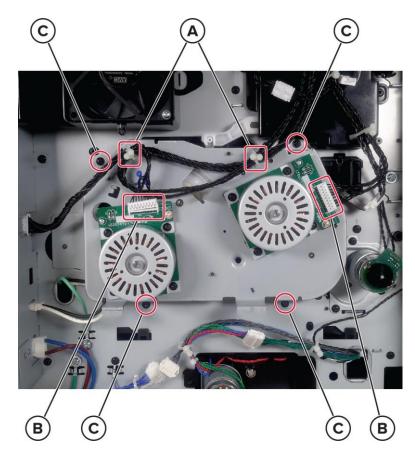
### AC power socket removal

- 1 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- 2 Remove the ground screw (A), release the latch (B), and then move the power connector to the front.
- **3** Disconnect the cable (C), and then remove the power connector.



### Main motor driveremoval

- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- **3** Release the cables from the cable holders (A), and then disconnect the two cables (B).
- **4** Remove the four screws (C), and then remove the motor drive.

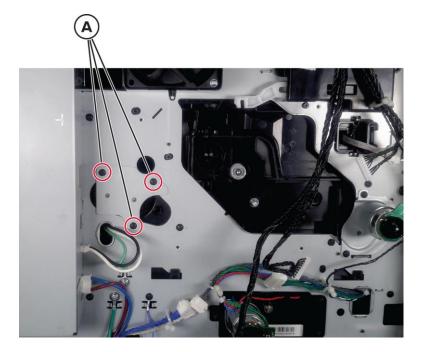


**Installation warning:** Make sure that the imaging unit is not reinstalled before the main motor drive. **Installation warning:** Make sure that the motor actuator and lever are properly engaged.



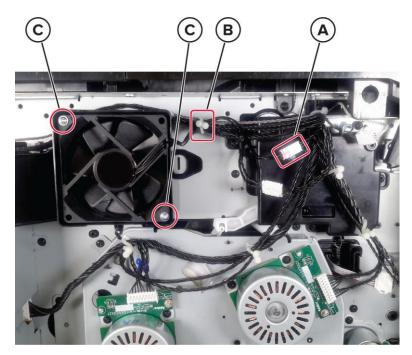
## Fuser drive gear removal

- 1 Remove the fuser. See <u>"Fuser removal" on page 498</u>.
- 2 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- **3** Remove the main motor drive. See <u>"Main motor drive removal" on page 451</u>.
- **4** Remove the three screws (A), and then remove the drive gear.



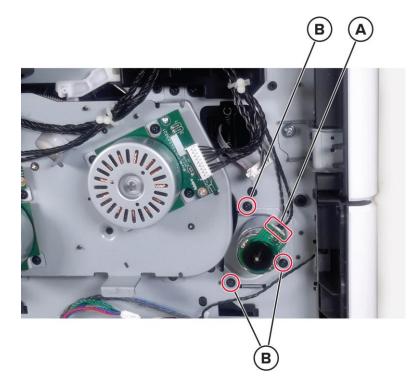
## Main fan removal

- 1 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- **2** Disconnect the cable (A), and then release it from its holder (B).
- **3** Remove the two screws (C), and then remove the fan.



## Motor (MPF) removal

- 1 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- 2 Disconnect the cable (A), and then remove the three screws (B).

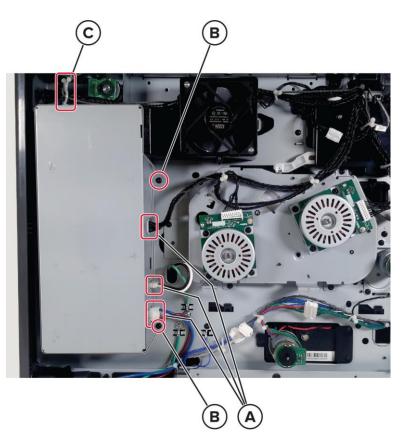


**3** Remove the motor.

## **LVPS removal**

- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- **3** Disconnect the three cables (A), and then remove the two screws (B).
- 4 Release the cables from their holder (C), and then remove the LVPS.

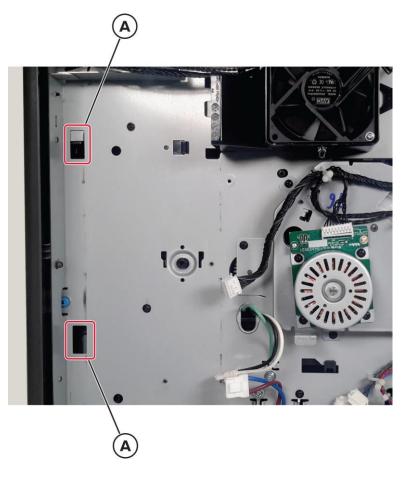
CAUTION—SHOCK HAZARD: The low-voltage power supply (LVPS) may have residual voltage present. To avoid the risk of electrical shock, do not touch its circuit components. Only handle it by its metal housing or outer edges.



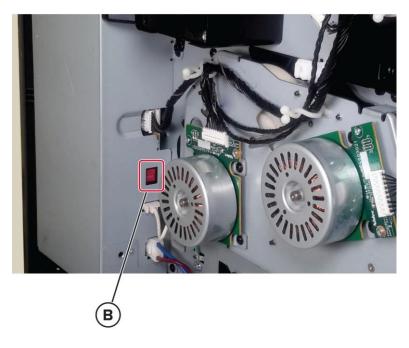
**Installation note:** Make sure that LVPS tabs are properly engaged with their appropriate slots (A) on the printer frame.

Parts removal

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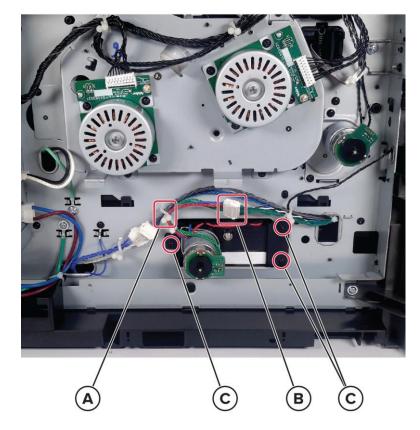


Installation note: Make sure that the voltage selector switch (B) is set to the proper voltage.



## Paper feeder removal

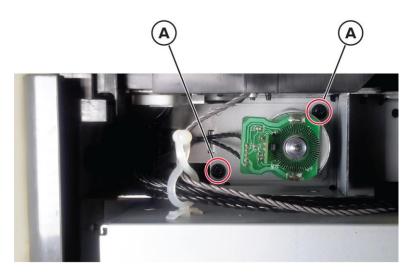
- 1 Remove tray 1, and then remove the pick roller. See <u>"Pick roller removal" on page 511</u>.
- 2 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- **3** Release the cable holder (A), and then disconnect the cable (B).
- **4** Remove the three screws (C), and then remove the paper feeder.



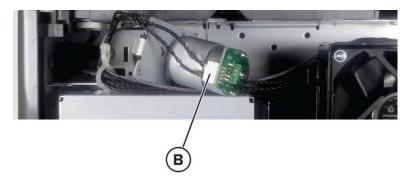
## Motor (redrive) removal

- 1 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- 2 Remove the two screws (A), and then release the motor.

Note: If the top cover is not removed yet, then the motor cannot be released.



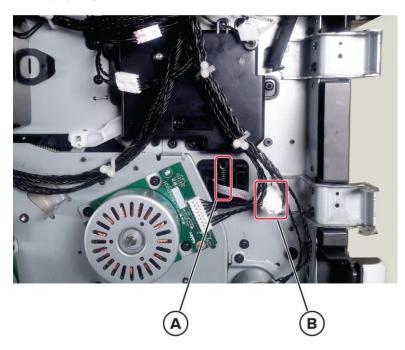
**3** Swing the motor to the right, and then disconnect the cable (B).



**4** Remove the motor.

## Sensor (toner smart chip) removal

- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the left cover. See <u>"Left cover removal" on page 444</u>.



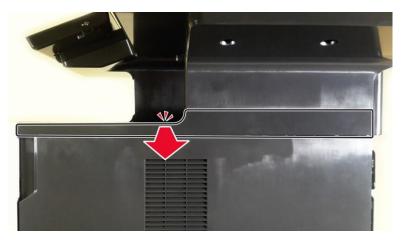
**3** Unhook the toner smart chip spring (A), and then disconnect the sensor cable (B).

4 Remove the sensor.

# **Right side removals**

## Right trim cover removal

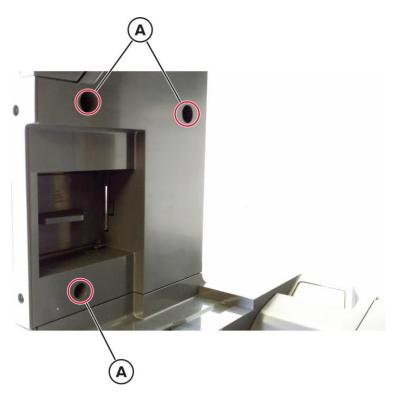
1 Release the cover at the point shown.



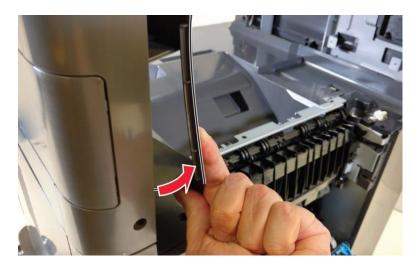
2 Carefully pull the cover, and then remove it.

## Right inner column cover removal

1 From the inner right side, remove the three screws (A).



**2** Release the rear side of the cover.

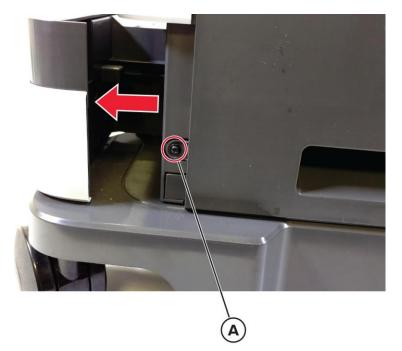


**3** Release the front side of the cover.



# Right cover removal

1 Pull out tray 1, and then remove the screw (A).

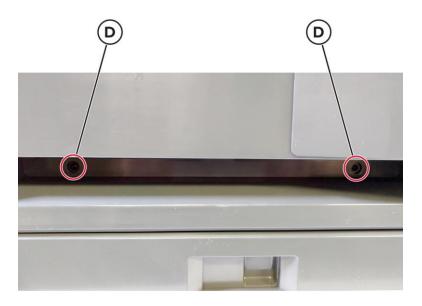


- **2** Open the controller board access door, and then remove the two screws (B).

**3** Open the front door, and then remove the two screws (C).



**4** Remove the two bottom screws (D).



**5** Release the front side of the cover.



#### **6** Remove the cover.



Parts removal

464

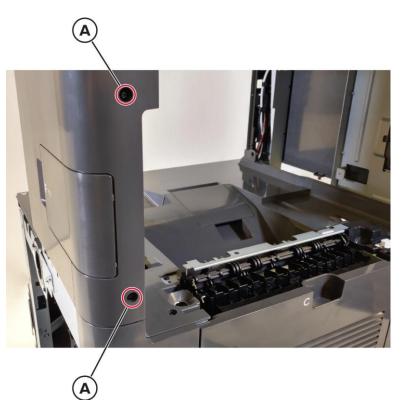
7464, 7465

Parts removal

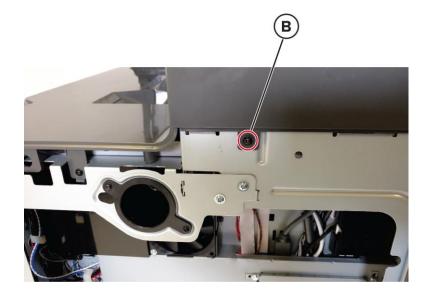
465

## Right outer column cover removal

- 1 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- **2** Remove the two screws (A).



**3** Remove the screw (B).

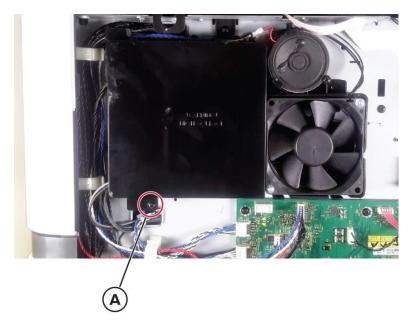


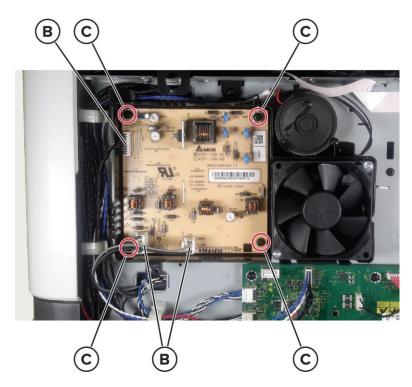
#### **4** Remove the cover.



## **HVPS** removal

- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- **3** Remove the screw (A), and then remove the HVPS shield.





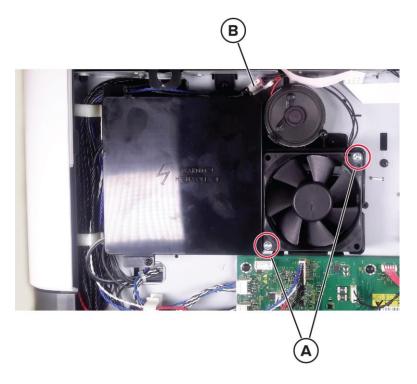
4 Disconnect the three cables (B), and then remove the four screws (C).

**5** Remove the HVPS.

**CAUTION—SHOCK HAZARD:** The high-voltage power supply (HVPS) may have residual voltage present. To avoid the risk of electrical shock, do not touch its circuit components. Only handle it by its outer edges.

## Cartridge fan removal

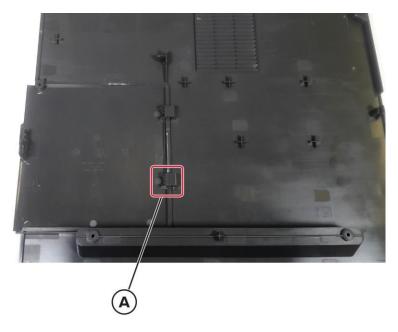
- 1 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- **2** Remove the two screws (A), and then disconnect the cable (B).



**3** Remove the fan.

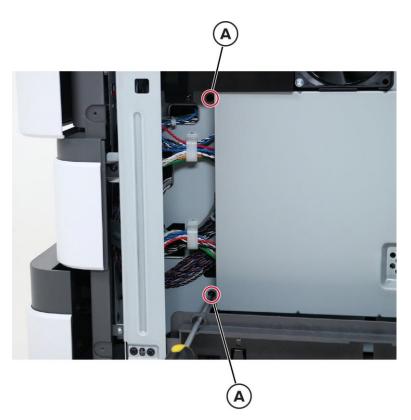
## Controller board access door removal

- 1 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- **2** Release the hinge pivot (A), and then remove the door.

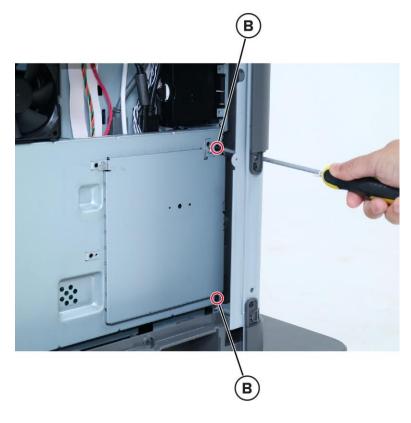


## Controller board housing removal

- 1 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- **2** Remove the two screws (A).



#### **3** Remove the two screws (B).



**4** Remove the board housing.

## Controller board removal

#### Critical information for controller board or control panel replacement

Warning—Potential Damage: 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—Potential Damage:** Do not perform a POR (Power-On Reset) until the problem is resolved. If a POR is performed at this point, 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.

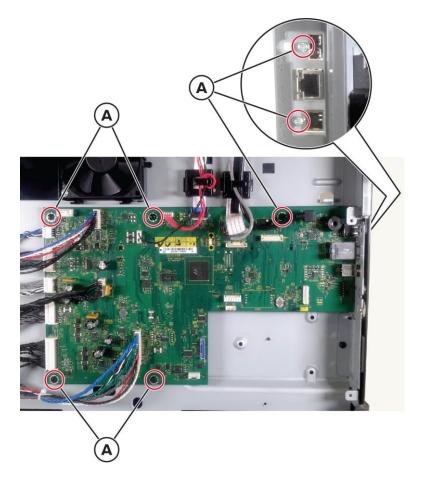
**Warning—Potential Damage:** Some printers will automatically perform a POR if the Diagnostics Menu is not opened within five seconds. If a POR is performed at this point, the replacement part can no longer be used in another printer and must be returned to the manufacturer.

**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 reinstall the old part.
- If the problem is resolved—Perform a POR.

#### **Removal procedure**

- 1 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- 2 Remove the controller board housing. See <u>"Controller board housing removal" on page 471.</u>
- **3** Disconnect all the cables from the controller board, and then remove the seven screws (A).

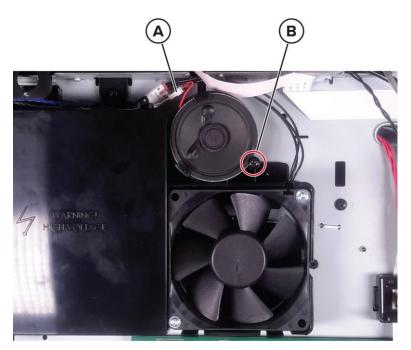


**3** Remove the board.

Installation note: Make sure that all the cables are connected and properly routed.

### **Speaker removal**

- 1 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- **2** Disconnect the cable (A), and then remove the screw (B).

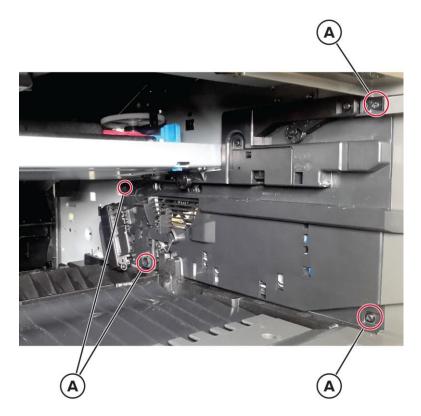


**3** Remove the speaker.

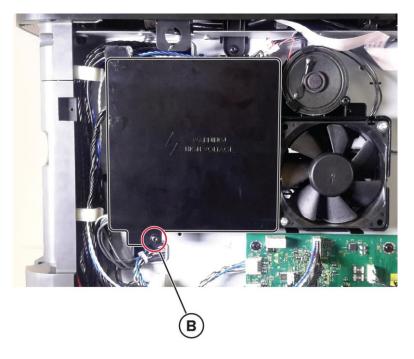
## High voltage contacts guide removal

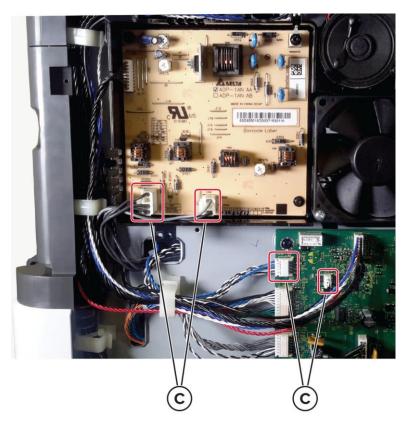
- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the right cover. See <u>"Right cover removal" on page 461</u>.

### **3** Remove the four screws (A).



**4** Remove the screw (B), and then remove the HVPS shield.





**5** Disconnect the four cables (C), and then remove the imaging unit contact guide.

## Toner cartridge shutter actuator removal

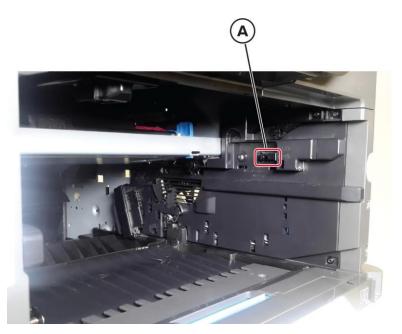
- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- **2** Remove the screw (A), and then remove the actuator.



## Sensor (toner cartridge shutter) removal

- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the toner cartridge shutter actuator. See <u>"Toner cartridge shutter actuator removal" on page</u> <u>477</u>.

**3** Release the sensor (A) from the inner side, and then disconnect its cable.

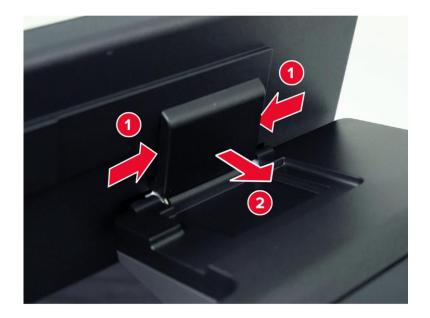


4 Remove the sensor.

# Front side removals

## Upper hinge cover removal

Behind the control panel, remove the cover.



## **Control panel cover removal**

1 Remove the control panel bezel.



**2** Remove the cover.



## **Control panel board removal**

### Critical information for controller board or control panel board replacement

Warning—Potential Damage: Replace only one of the following components at a time:

- Control panel board
- Controller board

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

1 Replace the affected component.

**Warning—Potential Damage:** Do not perform a POR (Power-On Reset) until the problem is resolved. If a POR is performed at this point, 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—Potential Damage:** Some printers will automatically perform a POR if the Diagnostics Menu is not opened within five seconds. If a POR is performed at this point, 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 reinstall the old part.
  - If the problem is resolved—Perform a POR.

#### **Removal procedure**

- 1 Remove the control panel bezel and cover. See <u>"Control panel cover removal" on page 479</u>.
- **2** Remove the six screws.



**3** Behind the board, disconnect the cables.

Warning—Potential Damage: Do not yank the ribbon cable. See <u>"Disconnecting ribbon cables" on</u> page 431.



**4** Remove the board.

## Control panel button kit removal

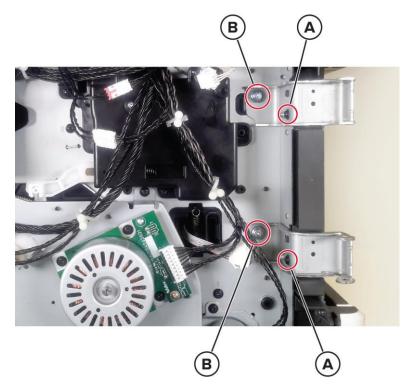
- 1 Remove the control panel bezel and cover. See <u>"Control panel cover removal" on page 479</u>.
- 2 Remove the control panel board. See <u>"Control panel board removal" on page 479</u>.
- **3** Behind the board, remove the three screws.



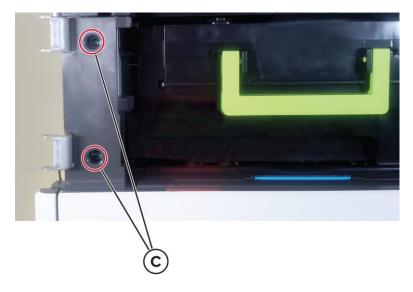
**4** Remove the button kit.

## Front door bracket removal

- 1 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- **2** Loosen the two screws (A), and then remove the two screws (B).



**3** Remove the two screws (C).

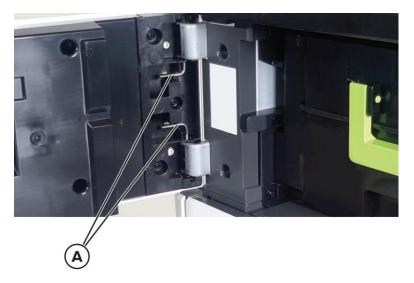


**4** Remove the bracket.

Installation warning: Make sure that the screws are not overtightened.

## Front door removal

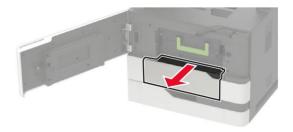
- 1 Open the front door.
- **2** Swing the front door pins (A) inward to release, and then remove them.



**3** Remove the door.

## Duplex/MPF tray removal

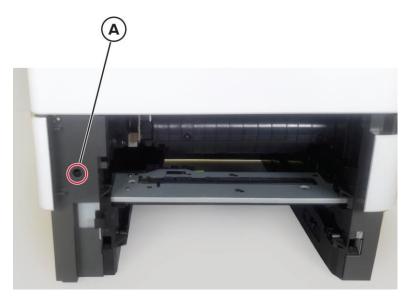
- 1 Open the front door.
- 2 Press the handle, and then pull out the duplex/MPF tray.



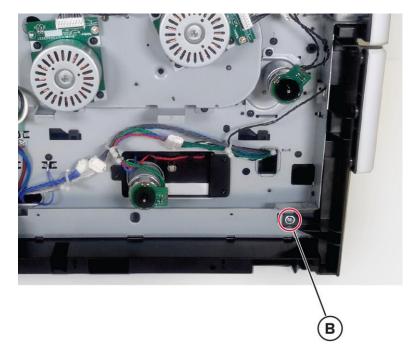
## Inner left cover removal

- 1 Remove tray 1.
- 2 Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal" on page 483</u>.
- 3 Remove the left cover. See <u>"Left cover removal" on page 444</u>.

4 Remove the screw (A).

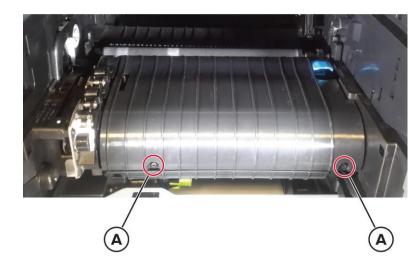


**5** From the left side, remove the screw (B), and then remove the cover.



## Inner guide deflector removal

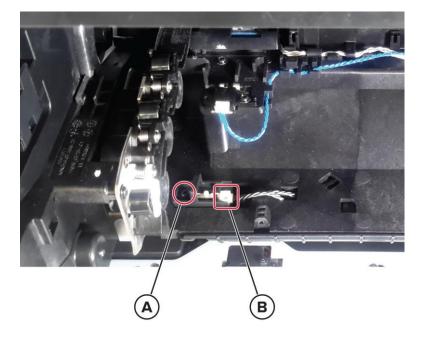
- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal" on page 483</u>.



**3** Remove the two screws (A), and then remove the deflector.

## Sensor (duplex interlock) removal

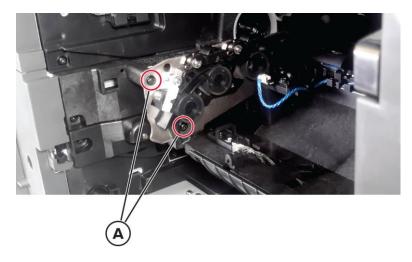
- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal" on page 483</u>.
- **3** Remove the inner guide deflector. See <u>"Inner guide deflector removal" on page 484</u>.
- **4** Remove the screw (A), and then disconnect the sensor cable (B).



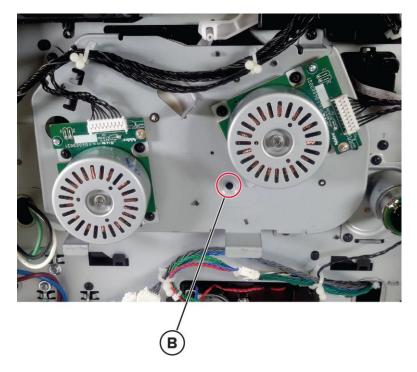
**5** Remove the sensor.

## **Aligner removal**

- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- **2** Remove tray 1.
- **3** Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- **4** Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal" on page 483</u>.
- **5** Remove the inner guide deflector. See <u>"Inner guide deflector removal" on page 484</u>.
- **6** Remove the two screws (A).



7 Remove the aligner screw (B).



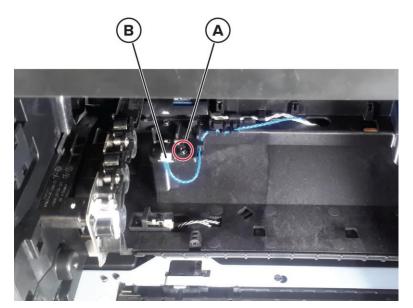
**8** Remove the aligner.

**Installation note:** Make sure that the aligner roller adjustment is performed to avoid paper skews. See <u>"Aligner roller adjustment" on page 433</u>.

# Sensor (input) removal

- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal" on page 483</u>.
- **3** Remove the inner guide deflector. See <u>"Inner guide deflector removal" on page 484</u>.

**4** Remove the screw (A), and then disconnect the sensor cable (B).



**5** Remove the sensor.

# MPF pick roller removal

- 1 Open the MPF door.
- **2** Press the latch to release, and then remove the pick roller.

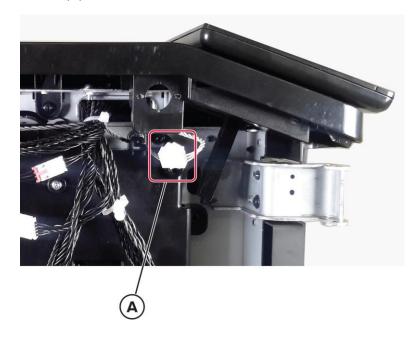


Parts removal

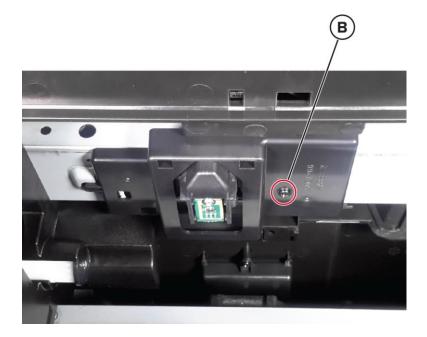
488

# Sensor (toner low) removal

- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the left cover. See <u>"Left cover removal" on page 444</u>.
- **3** Disconnect the sensor cable (A).



**4** Inside the printer from the front side, remove the screw (B).



**5** Remove the sensor.

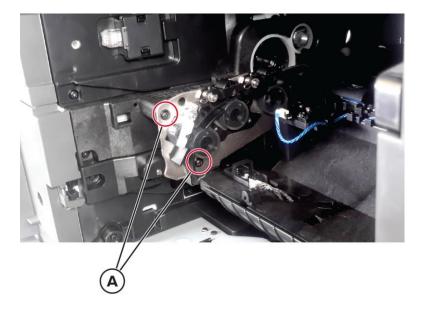
### **Transfer roller removal**

- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- **2** Release the latch, and then remove the transfer roller.

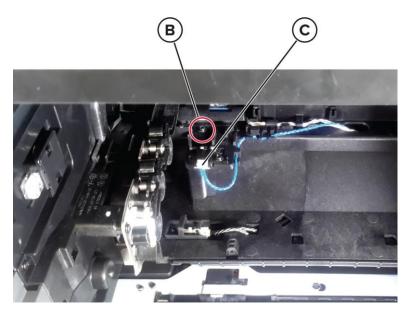


### Sensor (toner density) removal

- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal" on page 483</u>.
- 3 Remove the inner guide deflector. See <u>"Inner guide deflector removal" on page 484</u>.
- 4 Loosen the two aligner screws (A) to allow space for the sensor removal.



**5** Remove the screw (B), and then disconnect the sensor cable (C).



6 Remove the sensor.

Installation note: Make sure that the aligner screws are properly screwed back.

# **Rear side removals**

#### Scanner support rear cover removal

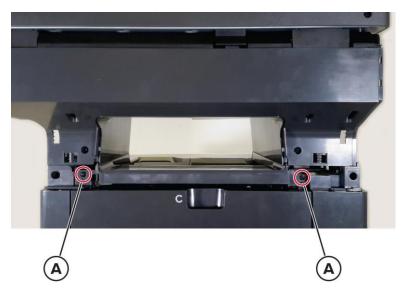
- 1 Remove the left trim cover. See <u>"Left trim cover removal" on page 442</u>.
- 2 Remove the right trim cover. See <u>"Right trim cover removal" on page 459</u>.
- **3** Release the cover at the points shown.



4 Carefully pull the cover, and then remove it.

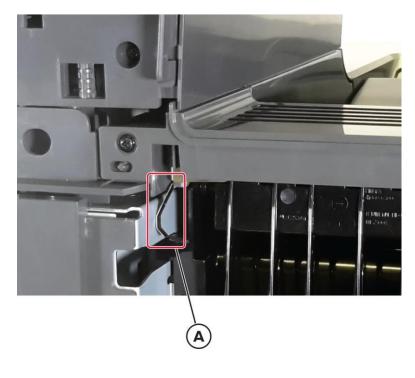
### **Redrive cover removal**

- 1 Remove the left trim cover. See <u>"Left trim cover removal" on page 442</u>.
- 2 Remove the right trim cover. See <u>"Right trim cover removal" on page 459</u>.
- **3** Remove the scanner support rear cover. See <u>"Scanner support rear cover removal" on page 491</u>.
- **4** Remove the two screws (A), and then remove the cover.



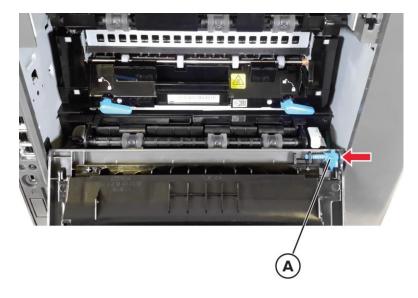
**Installation warning:** Be careful when removing or installing the cover. If the ground plate (A) is pushed too hard against the bracket, damage may occur.

**Installation note:** Make sure that the ground plate (A) is properly installed and in contact with the printer frame.



## **Rear door removal**

- 1 Open the rear door.
- **2** Press the latch (A) to release the hinge, and then remove the door.

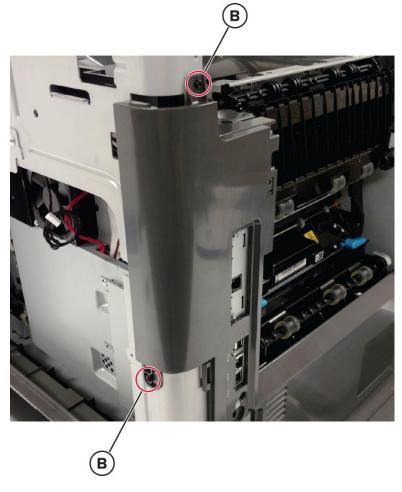


#### **Rear cover removal**

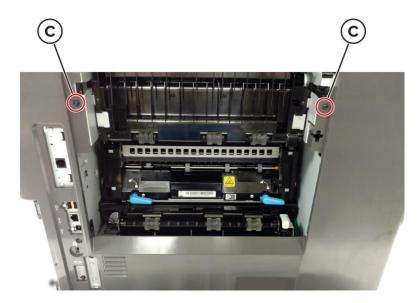
- 1 Remove the rear door. See "Rear door removal" on page 493.
- 2 Remove the left cover. See "Left cover removal" on page 444.
- **3** Remove the two screws (A).



**4** Remove the two screws (B).



5 Remove the two screws (C).



**6** Release the bottom side of the cover.



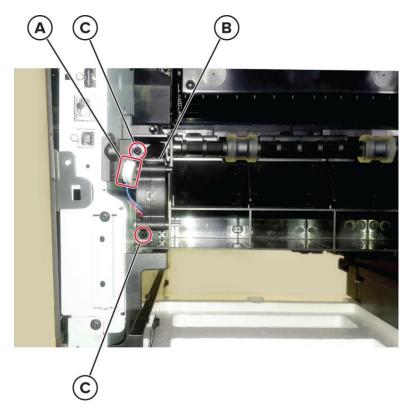
7 Remove the cover.

Parts removal

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# Motor (duplex) removal

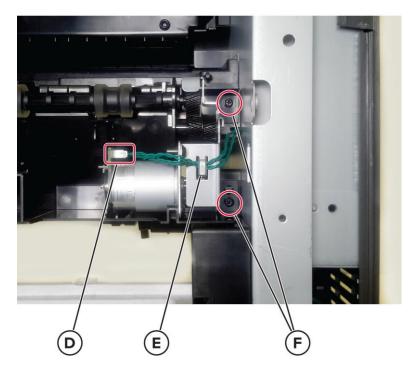
- 1 Remove the rear door. See <u>"Rear door removal" on page 493</u>.
- 2 Remove the rear cover. See <u>"Rear cover removal" on page 494</u>.
- **3** Disconnect the cable (A), and then release it from its holder (B).
- 4 Remove the two screws (C).



**5** Disconnect the cable (D), and then release it from its guide (E).

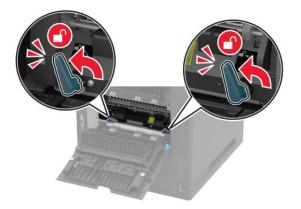
**6** Remove the two screws (F), and then remove the motor.

**Warning—Potential Damage:** Make sure that the motor cables are disconnected before removing the motor.



#### **Fuser removal**

- 1 For models using a hot roll type of fuser, remove the printhead access cover. See <u>"Printhead removal" on</u> page 502.
- **2** Open the rear door.
- **3** Rotate the latches to release, and then remove the fuser.

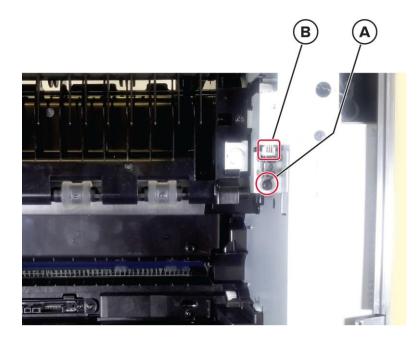


Parts removal

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## Sensor (rear door interlock) removal

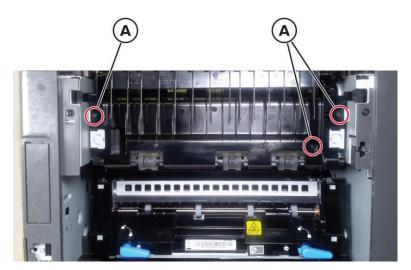
- 1 Remove the rear door. See <u>"Rear door removal" on page 493</u>.
- 2 Remove the rear cover. See <u>"Rear cover removal" on page 494</u>.
- **3** Remove the screw, and then disconnect the sensor cable (B).



4 Remove the sensor.

# **Upper redrive removal**

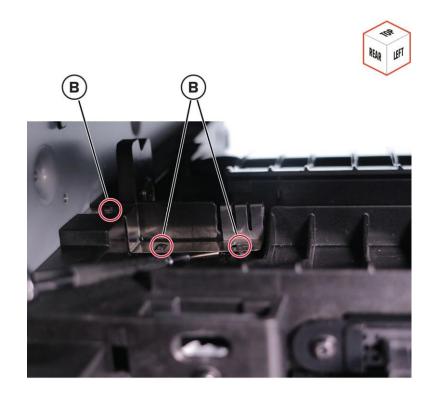
- 1 Open the rear door.
- **2** Remove the three screws (A), and then remove the redrive.



## Transfer roller contact removal

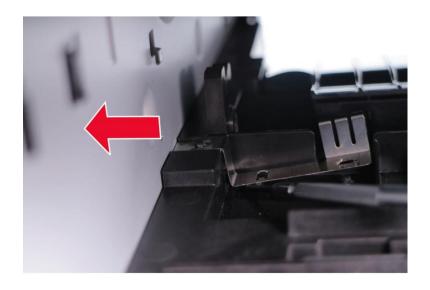
- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- 2 Remove the transfer roller. See <u>"Transfer roller removal" on page 490</u>.
- **3** Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- 4 Remove the fuser. See <u>"Fuser removal" on page 498</u>.
- **5** Remove the high voltage contacts guide. See <u>"High voltage contacts guide removal" on page 474</u>.
- 6 Remove the controller board. See <u>"Controller board removal" on page 472</u>.
- **7** Remove screw 5 (A) from the right side frame.





**8** Inside the printer, release the contact from its posts (B) using a prying tool.

Note: If necessary, push the frame to loosen the contact.



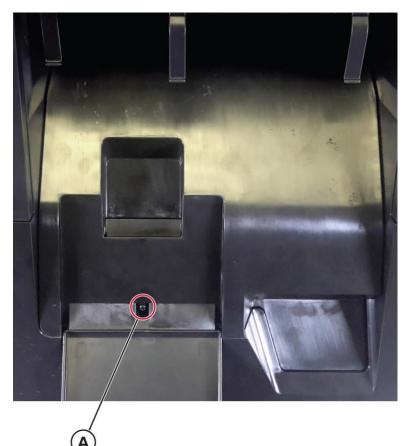
Installation note: Make sure that the contact is properly engaged with its posts.

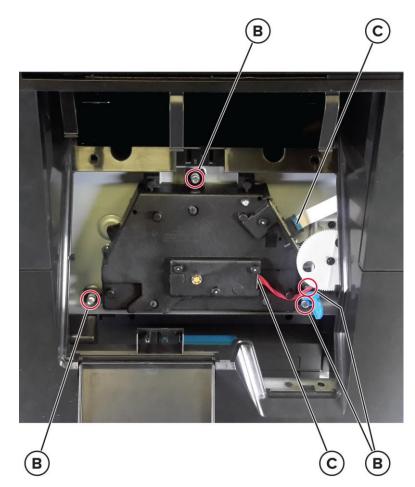
# Top side removals

### **Printhead removal**

- 1 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- **2** Remove the screw (A) under the bin extender, and then remove the printhead access cover.

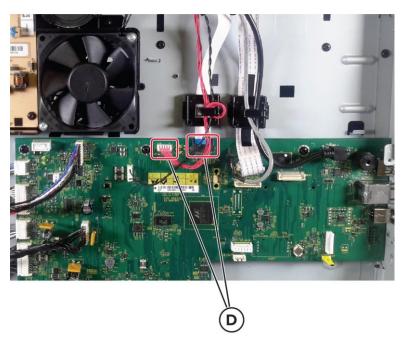
**Note:** For models using a hot roll type of fuser, the cover can be removed immediately (no screw to be removed) by lifting it.





**3** Remove the four screws (B), and then disconnect the two cables (C).

**4** Disconnect the two cables (D) from the controller board.

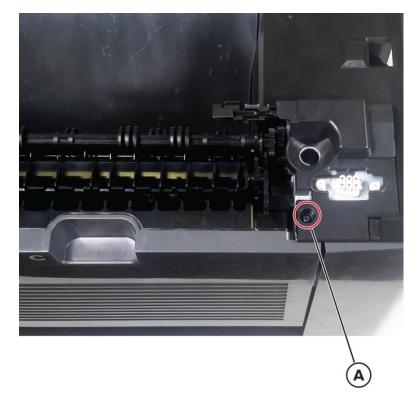


**5** Remove the printhead.

**Installation note:** Make sure that the printhead is aligned first before tightening the screws. See <u>"Polygon printhead mechanical registration adjustment" on page 435</u>.

# Bin full sensor cover removal

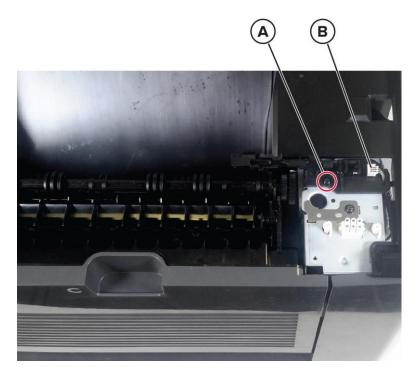
1 Remove the screw (A).



**2** Remove the cover.

## Sensor (standard bin full) removal

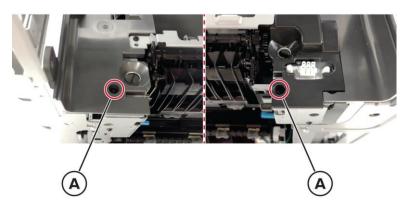
- 1 Remove the bin full sensor cover. See <u>"Bin full sensor cover removal" on page 505</u>.
- **2** Remove the screw (A), and then disconnect the sensor cable (B).



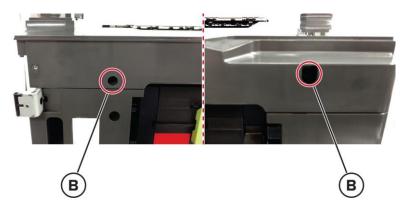
**3** Remove the sensor.

### Bin cover removal

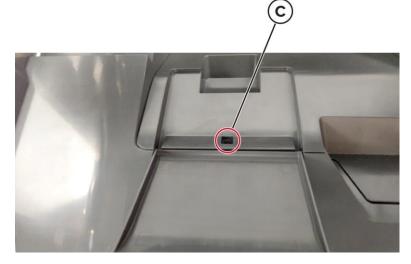
- 1 Remove the left inner column cover. See <u>"Left inner column cover removal" on page 443</u>.
- 2 Remove the right inner column cover. See <u>"Right inner column cover removal" on page 460</u>.
- 3 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- 4 Remove the left cover. See "Left cover removal" on page 444.
- 5 Remove the two rear screws (A).



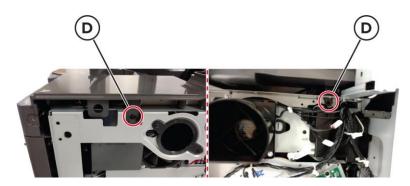
**6** Remove the two front screws (B).



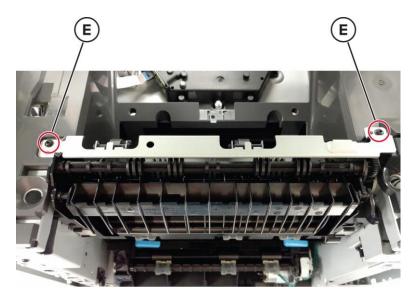
**7** Remove the screw (C) under the bin extender.



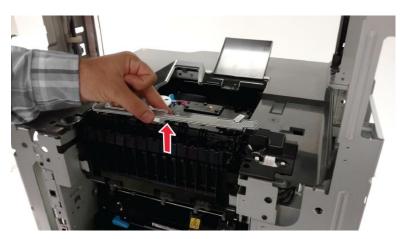
8 Remove the two right screws (D).



**9** From the rear side, remove the two screws (E).



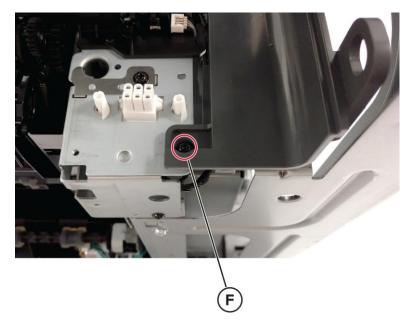
**10** Remove the bracket.



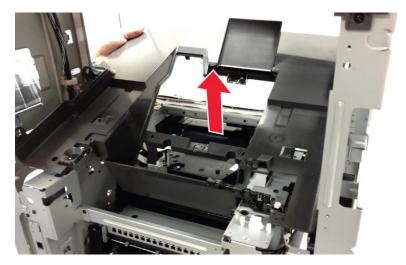
**11** Remove the option connector cover.



### 12 Remove the screw (F).



**13** Lift the front side, and then remove the cover.



# **Bottom side removals**

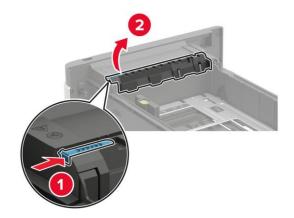
# **Tray insert removal**

Pull out, and then remove the tray.



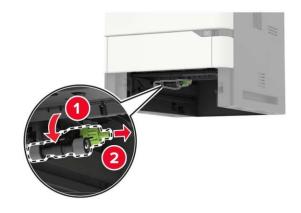
# Separator pad removal

- 1 Remove the tray insert. See <u>"Tray insert removal" on page 510</u>.
- **2** Release, and then remove the separator pad.



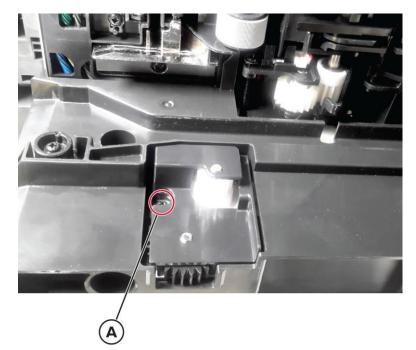
## **Pick roller removal**

- 1 Remove tray 1.
- 2 Remove the pick roller.



# Optional tray drive gear removal

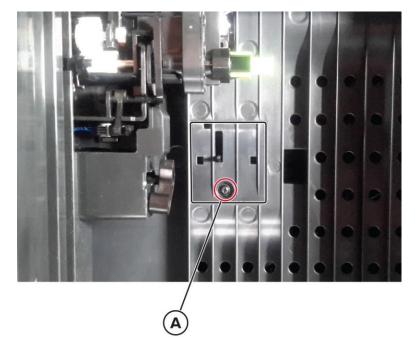
- 1 Remove tray 1.
- **2** Remove the screw (A), and then remove the drive gear and cover.



**3** Remove the gears from the gear cover.

# Sensor (duplex path) with cover removal

- 1 Remove all optional trays from the printer.
- **2** Remove tray 1.
- **3** Remove the duplex/MPF tray. See <u>"Duplex/MPF tray removal" on page 483</u>.
- **4** To access the bottom, lay the printer on its back on a sturdy surface.
- **5** Remove the screw (A), and then disconnect the sensor cable.



**6** Remove the sensor and cover.

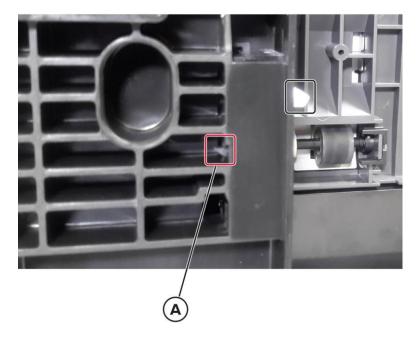
# Sensor (paper size) removal

- **1** Remove all optional trays from the printer.
- **2** Remove tray 1.
- **3** To access the bottom, lay the printer on its back on a sturdy surface.



**4** Release the paper size sensor cover using a flat screwdriver, and then remove it.

5 Release the sensor latch (A), and then release the sensor from the frame.



**6** Disconnect the sensor cable, and then remove the sensor.

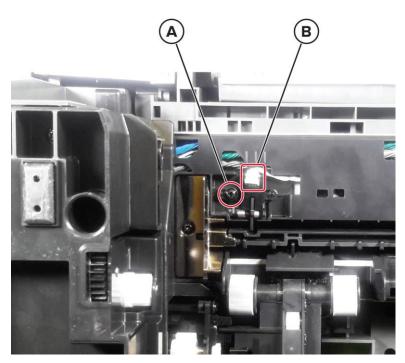
## Sensor (tray 1 pass-through) removal

- 1 Remove all optional trays from the printer.
- **2** Remove tray 1.
- **3** To access the bottom, lay the printer on its back on a sturdy surface.

Parts removal

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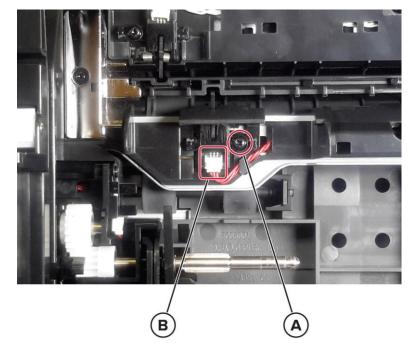
4 Remove the screw (A), and then disconnect the sensor cable (B).



**5** Remove the sensor.

# Sensor (tray 1 pick) removal

- **1** Remove all optional trays from the printer.
- **2** Remove tray 1.
- **3** To access the bottom, lay the printer on its back on a sturdy surface.



4 Remove the screw (A), and then disconnect the sensor cable (B).

**5** Remove the sensor.

# ADF and flatbed scanner removals

# ADF pick roller cover removal

**Warning—Potential Damage:** Some parts of the printer are easily damaged by static electricity. Before touching any parts or components in an area marked with the static-sensitive symbol, touch a metal surface in an area away from the symbol.

1 Open door D.



**2** Release the latches, and then remove the cover.



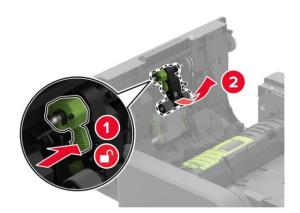
### ADF maintenance kit removal

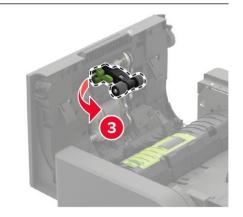
**Warning—Potential Damage:** Replace the ADF pick roller, ADF feed belt, and ADF separator roller at the same time. If the life of these parts don't match, feed issues may occur.

#### **ADF pick roller removal**

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the ADF.

- 1 Remove the ADF pick roller cover. See <u>"ADF pick roller cover removal" on page 515</u>.
- **2** Remove the pick roller.

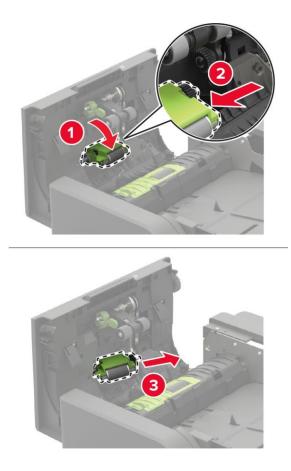




#### ADF feed belt removal

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the ADF.

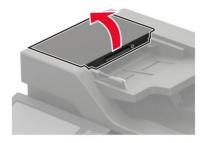
- 1 Remove the ADF pick roller cover. See <u>"ADF pick roller cover removal" on page 515</u>.
- **2** Remove the feed belt.



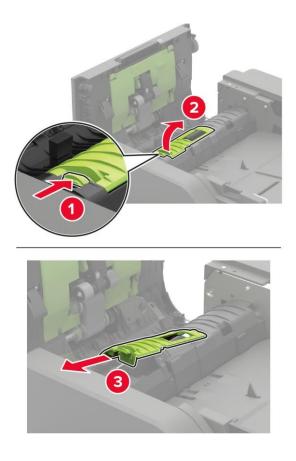
#### ADF separator roller removal

**Warning—Potential Damage:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the ADF.

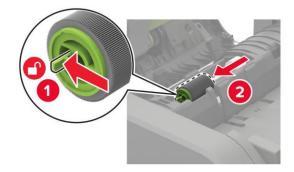
**1** Open door D.



**2** Remove the ADF separator roller cover.

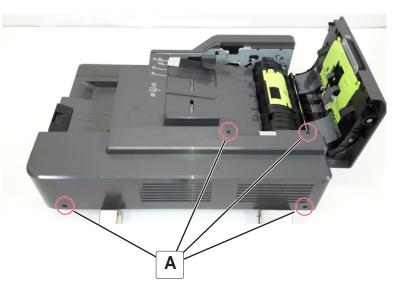


**3** Remove the separator roller.



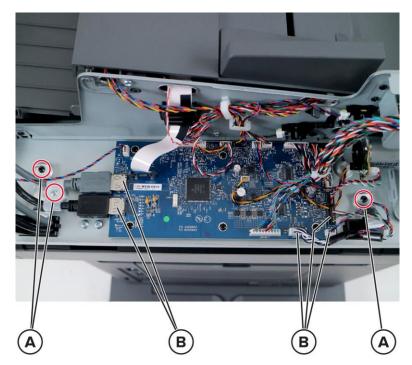
### **ADF** rear cover removal

- 1 Open the ADF top door.
- 2 Remove the four screws (A), and then remove the cover.



## **ADF** removal

- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- **2** Remove the three screws (A), and then disconnect the five cables (B).

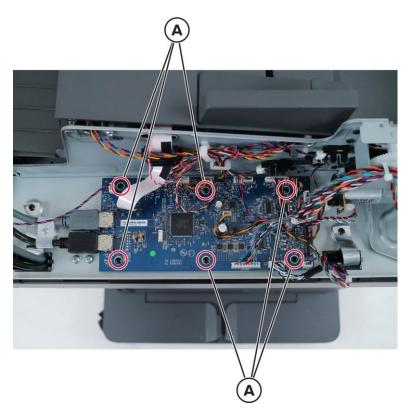


**3** Gently lift the ADF, and then release the cables from the ADF.

## ADF controller board removal

- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- **2** Disconnect all the cables from the controller board, and then remove the six screws (A).

**Warning—Potential Damage:** Do not yank the ribbon cable. See <u>"Disconnecting ribbon cables" on</u> page 431.

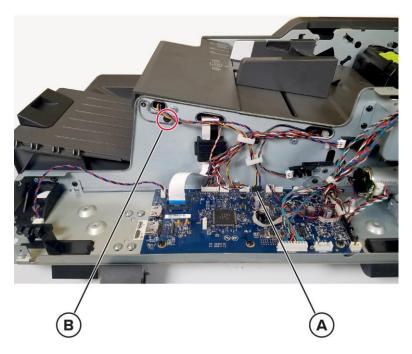


**3** Remove the board.

## **ADF tray removal**

- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Disconnect the cable (A), and then release it from its clamps.

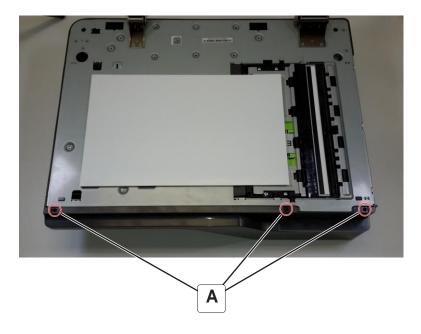
**3** Remove the screw (B), and then remove the hinge bracket.



4 Carefully remove the tray and cable from the ADF frame.

## ADF front cover removal

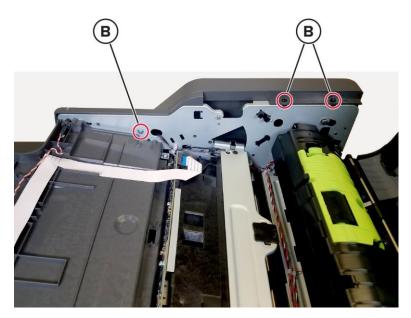
- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the three screws (A) under the ADF.



#### **3** Lift the ADF tray.



4 Remove the three screws (B) behind the front cover.

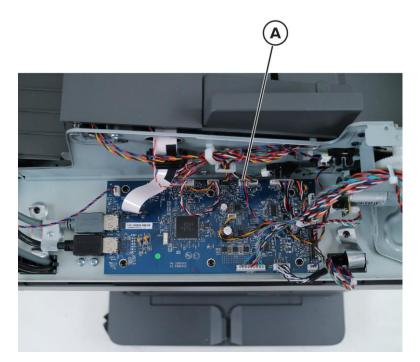


**5** Remove the cover.

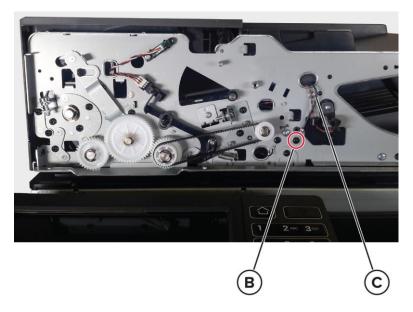
## ADF bottom door removal

- 1 Remove the ADF front cover. See <u>"ADF front cover removal" on page 521</u>.
- 2 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.

**3** Disconnect the cable JCSH1 (A) from the ADF controller board.



**4** Remove the screw (B) to release the ground wire (C).



**5** Open the ADF bottom door.

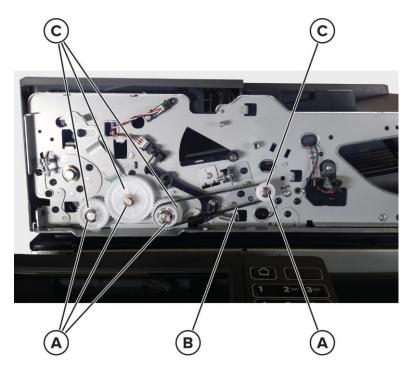
- **6** Gently flex the hinges (D) to release, and then remove the door.

Installation note: When installing the bottom door, make sure to reconnect the ground wire.

## ADF front drive train removal

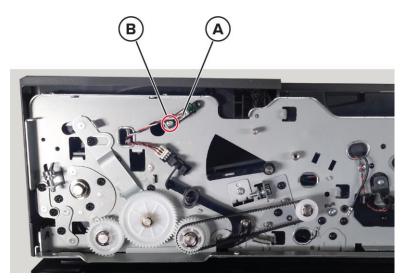
- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the ADF front cover. See <u>"ADF front cover removal" on page 521</u>.
- **3** Remove the four E-clips (A).

**4** Remove the belt (B) and the four gears (C).



## Sensor (ADF top door interlock) removal

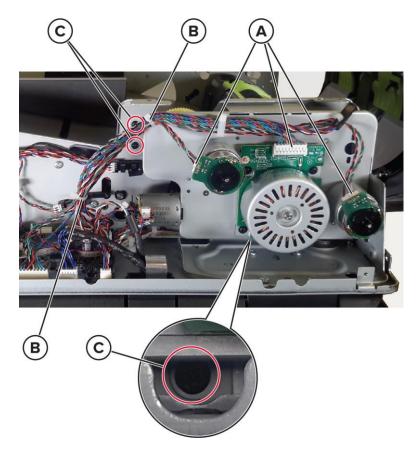
- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the ADF tray. See <u>"ADF tray removal" on page 520</u>.
- **3** Remove the ADF front cover. See <u>"ADF front cover removal" on page 521</u>.
- **4** Disconnect the cable (A), and then remove the screw (B).

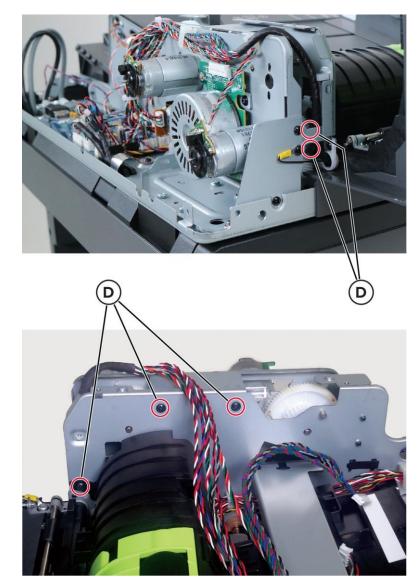


**5** Remove the sensor.

# Motor (ADF) removal

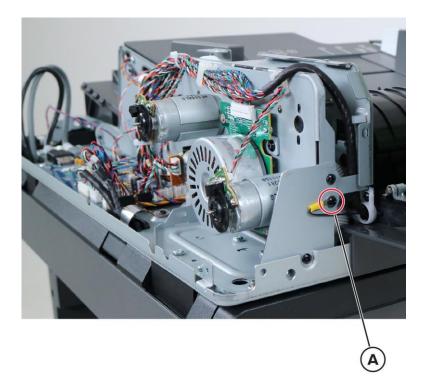
- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the ADF controller board. See <u>"ADF controller board removal" on page 520</u>.
- **3** Disconnect the three cables (A).
- **4** Release the cables from the cable ties (B), and then remove the three screws (C).





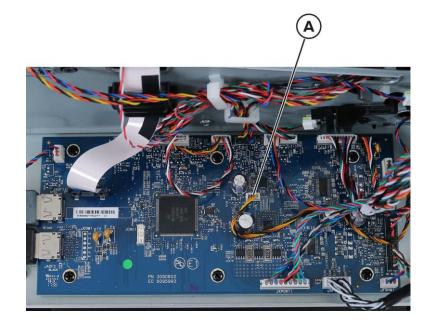
**5** Remove the five screws (D), and then remove the motor.

Installation note: Make sure to reconnect the ground cable (A).

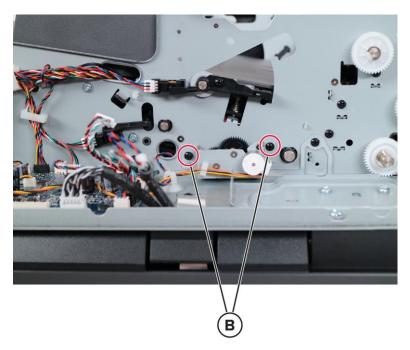


# Motor (ADF calibration roller) removal

- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the motor (ADF). See <u>"Motor (ADF) removal" on page 526</u>.
- **3** Disconnect the cable JSTEP1 (A) from the ADF controller board.



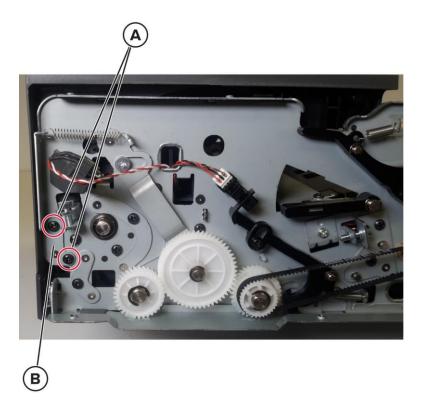
4 Remove the two screws (B), and then remove the motor.



# ADF top door removal

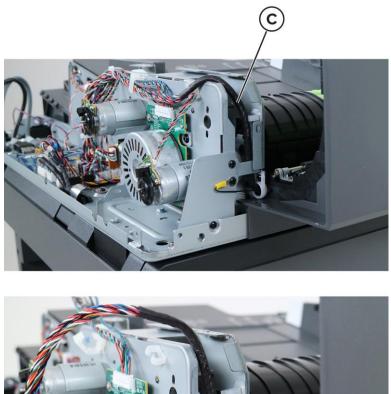
- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the ADF front cover. See <u>"ADF front cover removal" on page 521</u>.

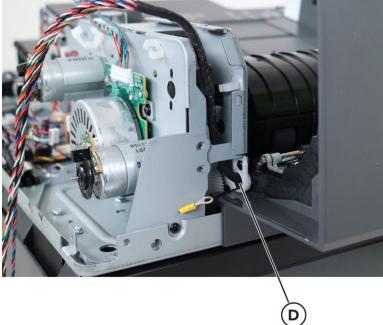
**3** From the front side, remove the two screws (A), and then remove the bracket (B).



**4** Disconnect, and then release the cable (C) from the ADF.

**5** Gently remove the door while threading the cable out of the hole (D).

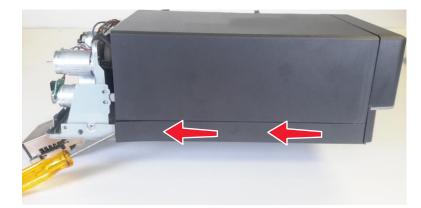




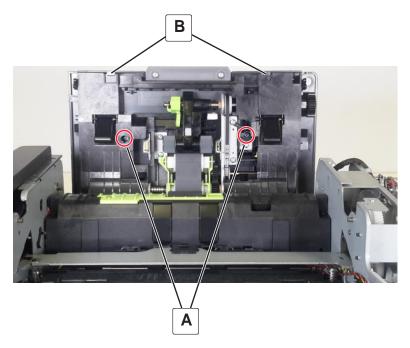
#### ADF top door cover removal

- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the ADF pick roller cover. See <u>"ADF pick roller cover removal" on page 515</u>.

**3** Carefully pry the ADF left lower cover, and then remove it.



- 4 Remove the two screws (A).
- **5** Release the two latches (B).

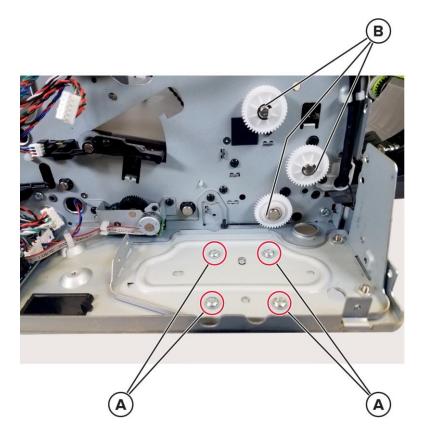


**6** Close the top door, and then gently remove the cover.

## ADF rear drive gears removal

- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the motor (ADF). See <u>"Motor (ADF) removal" on page 526</u>.
- **3** Remove the four screws (A), and then remove the bracket.

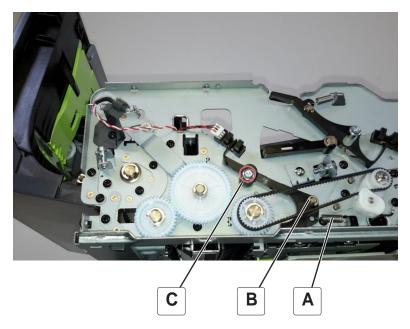
**4** Remove the three E-clips (B), and then remove the gears.



## ADF bottom interlock actuator removal

- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the ADF front cover. See <u>"ADF front cover removal" on page 521</u>.

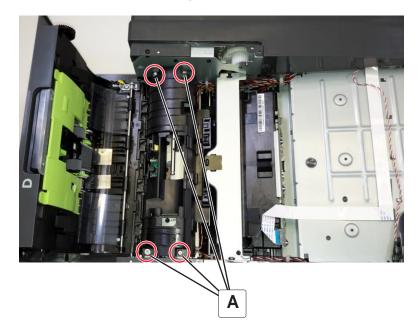
**3** Remove the spring (A), E-clip (B), and screw (C).



**4** Remove the actuator.

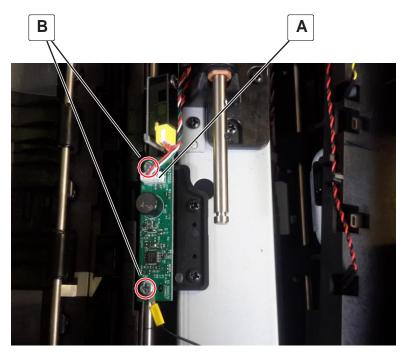
## ADF input guide removal

- 1 Remove the ADF separator roller. See <u>"ADF maintenance kit removal" on page 516</u>.
- **2** Remove the four screws (A), and then remove the guide.



## Sensor (ADF multifeed receiver) removal

- 1 Remove the input guide. See <u>"ADF input guide removal" on page 534</u>.
- 2 Disconnect the cable (A), and then remove the two screws (B).



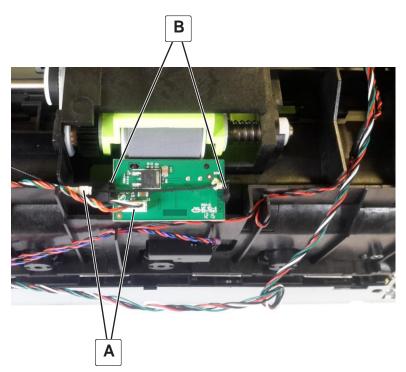
**3** Remove the sensor.

**Installation note:** Perform Multifeed calibration on the new sensor. See <u>"Sensor (ADF multifeed)</u> calibration" on page 441.

## Sensor (ADF multifeed transmitter) removal

- 1 Remove the ADF top door cover. See <u>"ADF top door cover removal" on page 531</u>.
- **2** Disconnect the two cables (A).

**3** Gently release the latches (B) to remove the sensor.



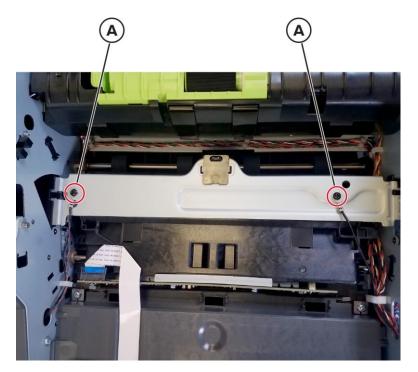
Installation note: Perform Multifeed calibration on the new sensor. See <u>"Sensor (ADF multifeed)</u> calibration" on page 441.

#### **ADF scanner CCD removal**

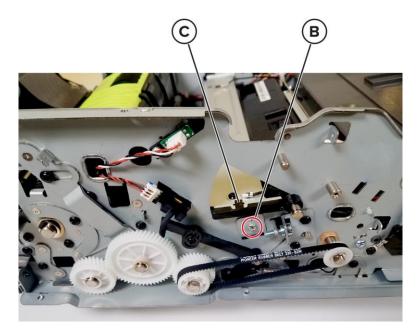
- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the ADF front cover. See <u>"ADF front cover removal" on page 521</u>.
- **3** Lift the ADF tray.



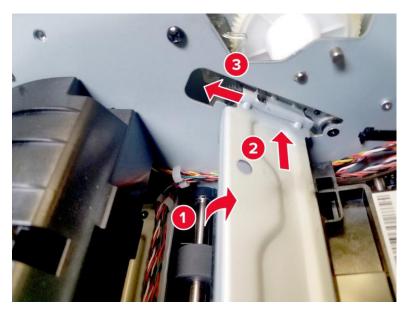
**4** Remove the ground cable screws (A).



- **5** Remove the screw (B), and then remove the bracket.
- **6** Release the latch (C), and then remove the hinge retainer.

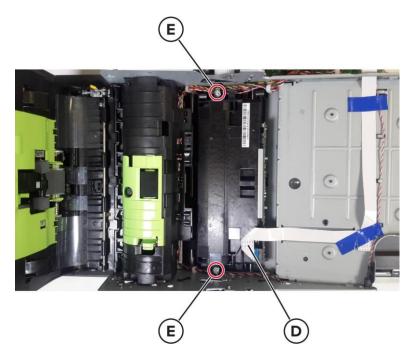


#### 7 Remove the lift plate.



8 Disconnect the cable (D), and then remove the two screws (E).

Warning—Potential Damage: Do not yank the ribbon cables. See <u>"Disconnecting ribbon cables" on</u> page 431.

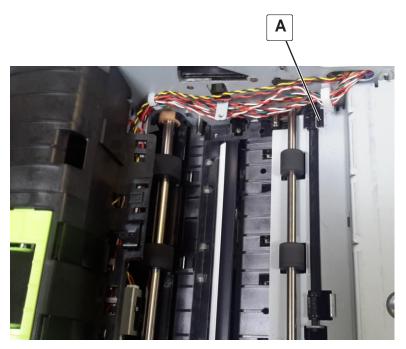


**9** Remove the scanner CCD.

**Note:** When installing or replacing the ADF scanner CCD, make sure to reconnect the ground wire, and then perform test scans to ensure that image skew does not occur. If image skew occurs, then see <u>"ADF skew</u> adjustment (back side)" on page 439.

## ADF paper exit actuator removal

- 1 Remove the ADF rear cover. See <u>"ADF rear cover removal" on page 519</u>.
- 2 Remove the ADF front cover. See <u>"ADF front cover removal" on page 521</u>.
- **3** Remove the ADF scanner CCD. See <u>"ADF scanner CCD removal" on page 536</u>.
- **4** Carefully remove the retainer (A).

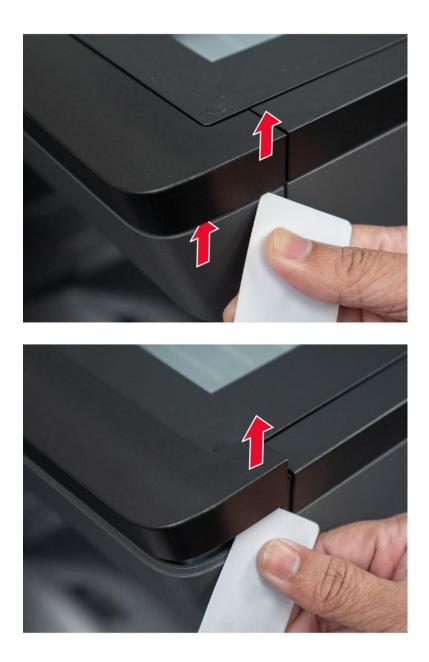


**5** Remove the actuator.

## Scanner front upper cover removal

- 1 Remove the upper hinge cover. See <u>"Upper hinge cover removal" on page 478</u>.
- **2** Release the latch.

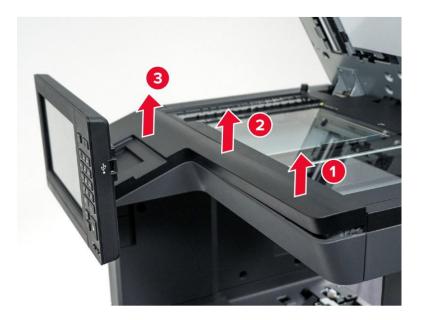
Warning—Potential Damage: Use a plastic card to avoid breaking the latch.



Parts removal

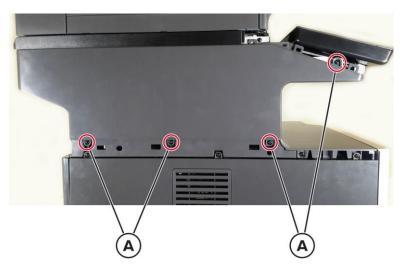
540

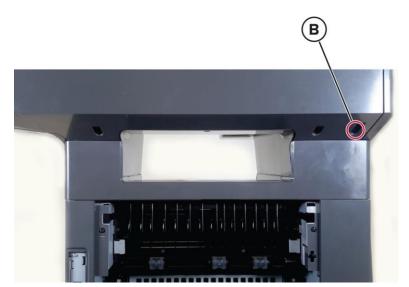
#### **3** Remove the cover.



# Scanner support left cover removal

- 1 Remove the left trim cover. See <u>"Left trim cover removal" on page 442</u>.
- **2** Remove the four screws (A).

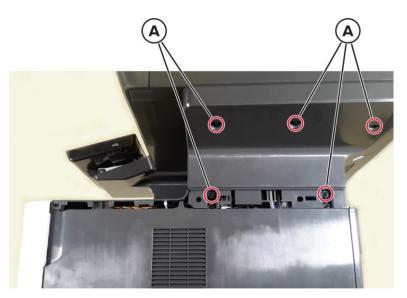




**3** Remove the screw (B) from the rear side, and then remove the cover.

#### Scanner support right cover removal

- 1 Remove the right trim cover. See <u>"Right trim cover removal" on page 459</u>.
- **2** Remove the five screws (A), and then remove the cover.



#### **Flatbed scanner removals**

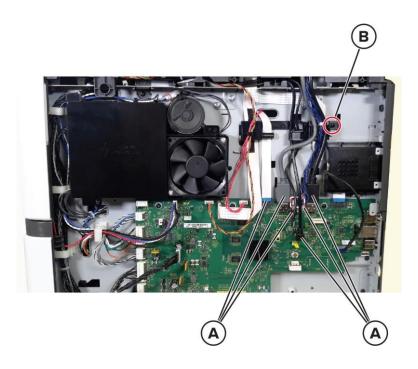
#### Flatbed scanner removal

- 1 Remove the ADF. See <u>"ADF removal" on page 519</u>.
- 2 Remove the right cover. See <u>"Right cover removal" on page 461</u>.
- **3** Remove the left trim cover. See <u>"Left trim cover removal" on page 442</u>.

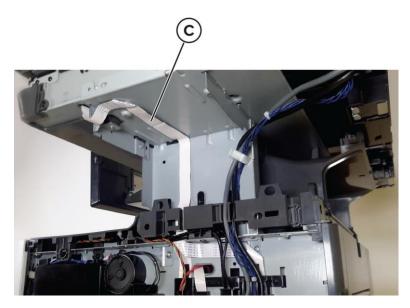
Parts removal

542

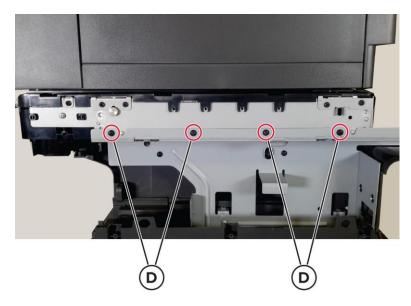
- 4 Remove the right trim cover. See <u>"Right trim cover removal" on page 459</u>.
- 5 Remove the scanner front upper cover. See <u>"Scanner front uper cover removal" on page 539</u>.
- **6** Remove the following scanner support covers:
  - a Remove the left outer column cover. See "Left outer column cover removal" on page 449.
  - **b** Remove the right outer column cover. See <u>"Right outer column cover removal</u>" on page 466.
- **7** Remove the scanner rear cover.
- **8** If available, loosen or remove the fax card.
- **9** Disconnect the six cables (A) from the controller board.
- **10** Remove the screw (B), and then remove the cable holder.



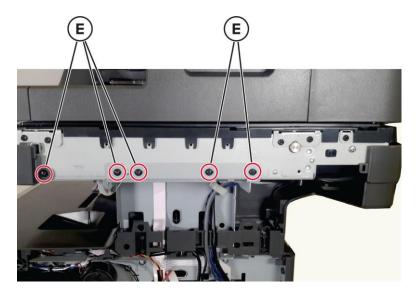
11 Carefully release the scanner cables from the printer.Note: Ribbon cables (C) are taped to parts of the printer.



**12** From the left side, remove the four screws (D).



**13** From the right side, remove the five screws (E).



14 From the front side, remove the four screws (F).



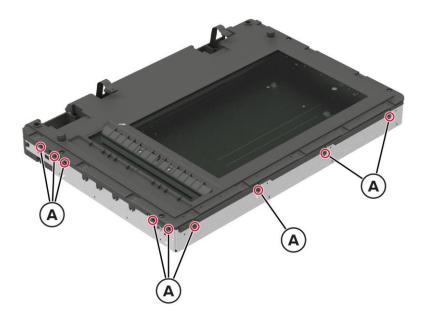
**15** Carefully remove the flatbed scanner.

**Warning—Potential Damage:** Make sure that all flatbed scanner cables are released from the printer before pulling the flatbed scanner.

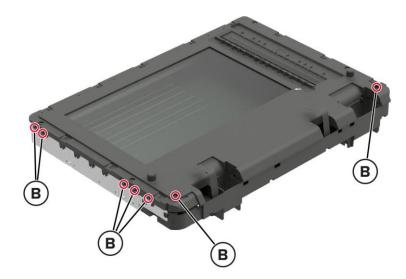
#### Flatbed scanner top cover removal

- 1 Remove the flatbed scanner. See <u>"Flatbed scanner removal" on page 542</u>.
- 2 Remove the nine screws (A).

Note: The ADF is not shown to improve clarity.



**3** Remove the seven screws (B).

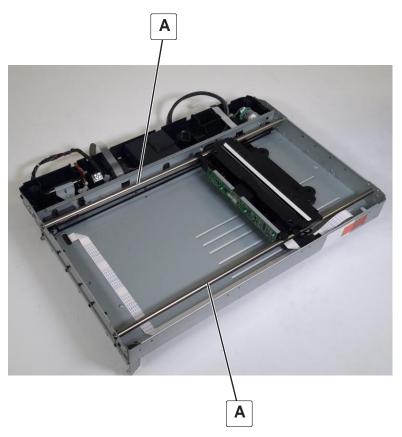


**4** Remove the cover.

#### Flatbed scanner CCDM removal

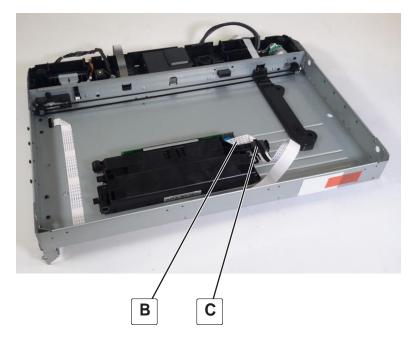
- 1 Remove the flatbed scanner. See <u>"Flatbed scanner removal" on page 542</u>.
- 2 Remove the flatbed scanner top cover. See <u>"Flatbed scanner top cover removal" on page 545</u>.

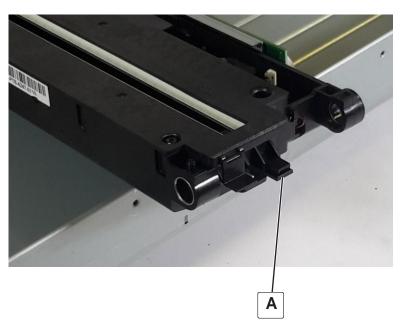
**3** Lift, and then slide the rods (A) out the left side of the frame.



- **4** Detach the CCDM from the belt.
- **5** Release the cable (B) and the toroid (C) from the CCDM.

Warning—Potential Damage: Do not yank the ribbon cables. See <u>"Disconnecting ribbon cables" on</u> page 431.



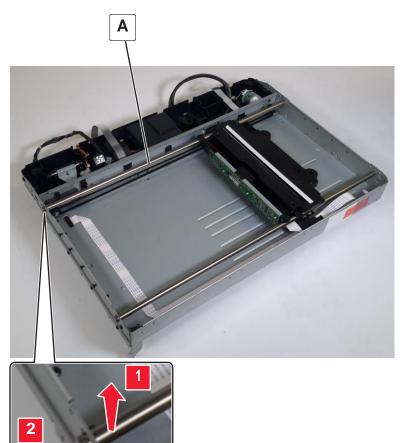


Installation note: Make sure that the belt is attached to the retainer (A) on the CCDM.

#### Flatbed scanner gear removal

- 1 Remove the flatbed scanner. See <u>"Flatbed scanner removal" on page 542</u>.
- 2 Remove the flatbed scanner top cover. See <u>"Flatbed scanner top cover removal" on page 545</u>.

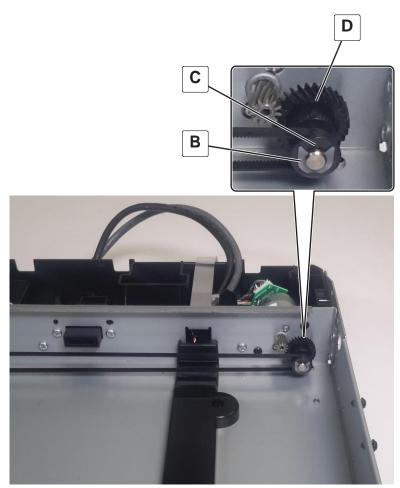
**3** Lift, and then slide the rear rod (A) out of the left side of the frame.



Parts removal

549

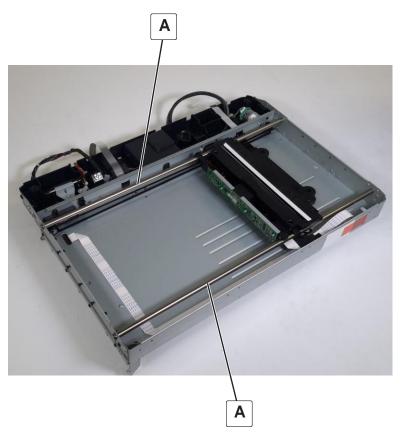
**4** Remove the retainer clip (B), flange, and then the scanner gear (D).



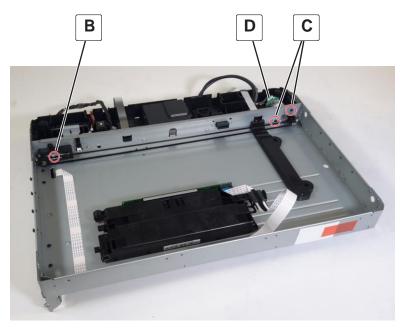
#### Motor (flatbed scanner) removal

- 1 Remove the flatbed scanner. See <u>"Flatbed scanner removal" on page 542</u>.
- 2 Remove the flatbed scanner top cover. See <u>"Flatbed scanner top cover removal" on page 545</u>.

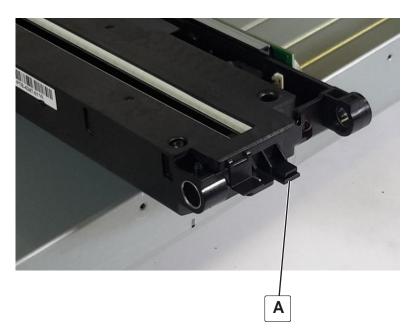
**3** Lift, and then slide the rods (A) out the left side of the frame.



- **4** Detach the CCDM from the belt, and then carefully lay it out of the way, but do not detach the connectors.
- **5** Loosen the tension adjusting screw (B), and then remove the two screws (C) securing the motor.
- **6** Disconnect the cable (D), and the remove the motor.



Installation note: Make sure that the belt is attached to the retainer (A) on the CCDM.

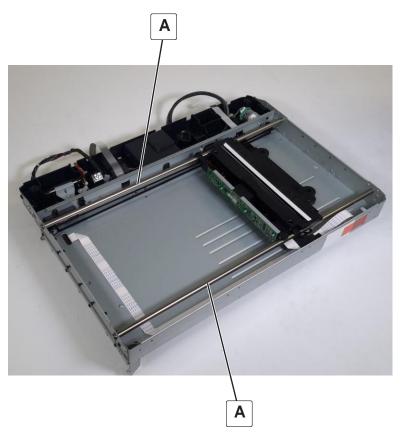


**Installation warning:** Tighten only the tension adjusting screw after the belt is reattached.

#### Sensor (FB CCDM) removal

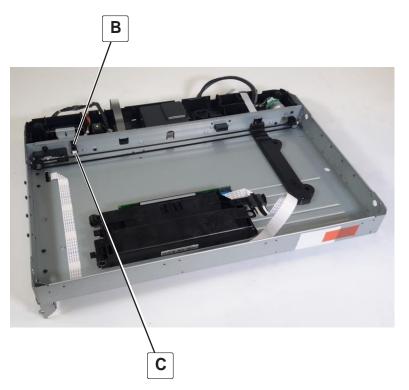
- 1 Remove the flatbed scanner. See <u>"Flatbed scanner removal" on page 542</u>.
- 2 Remove the flatbed scanner top cover. See <u>"Flatbed scanner top cover removal" on page 545</u>.

**3** Lift, and then slide the rods (A) out the left side of the frame.

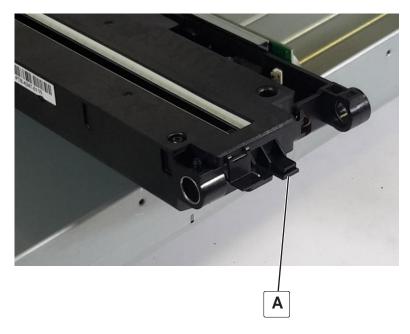


- **4** Detach the CCDM from the belt, and then carefully lay it out of the way, but do not detach the connectors.
- **5** Release the hooks attaching the sensor (B).

**6** Disconnect the cable (C), and then remove the sensor.



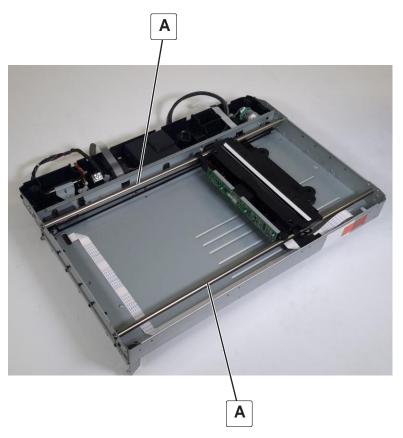
Installation note: Make sure that the belt is attached to the retainer (A) on the CCDM.



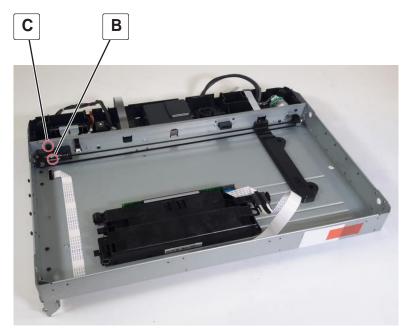
#### Flatbed scanner tensioner pulley removal

- 1 Remove the flatbed scanner. See <u>"Flatbed scanner removal" on page 542</u>.
- 2 Remove the flatbed scanner top cover. See <u>"Flatbed scanner top cover removal" on page 545</u>.

**3** Lift, and then slide the rods (A) out the left side of the frame.

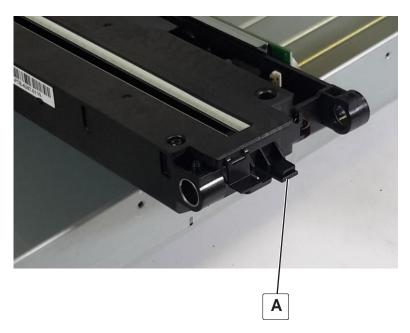


- 4 Detach the CCDM from the belt, and then carefully lay it out of the way, but do not detach the connectors.
- **5** Loosen the tension adjusting screw (B), and then remove the screw (C) securing the tensioner pulley.



**6** Remove the pulley.

Installation note: Make sure that the belt is attached to the retainer (A) on the CCDM.

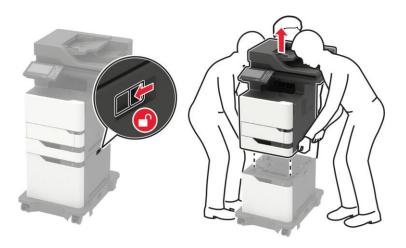


Installation warning: Tighten only the tension adjusting screw after the belt is reattached.

# **Optional 2100-sheet trayremovals**

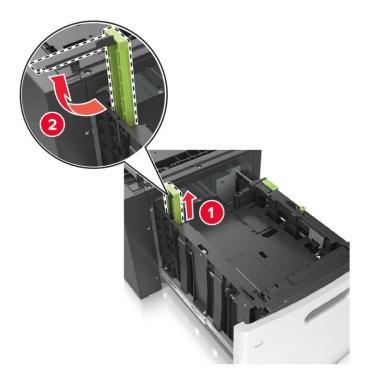
# **Optional 2100-sheet tray removal**

- 1 Press the latch to unlock.
- **2** Lift the printer or optional tray above the 2100-sheet tray, and then separate the 2100-sheet tray.



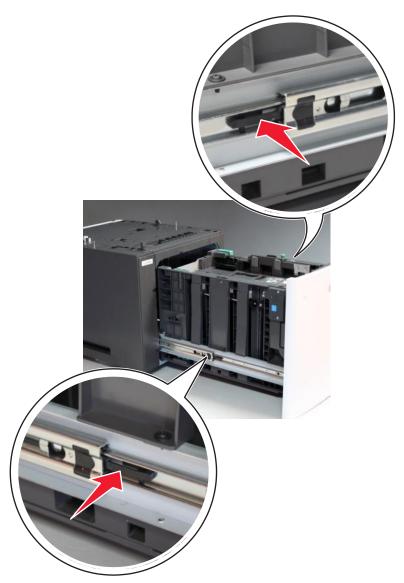
# A5 length guide removal

- 1 Pull the guide out of the tray.
- **2** Remove the guide.



# 2100-sheet tray insert removal

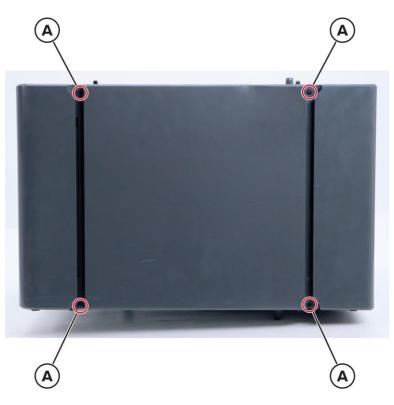
1 Fully extend the tray, and then press the left and right latches to release it.



**2** Remove the tray insert.

#### 2100-sheet tray rear cover removal

1 Remove the four screws (A).

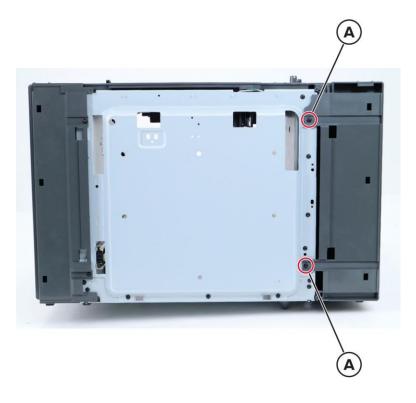


**2** Remove the cover.

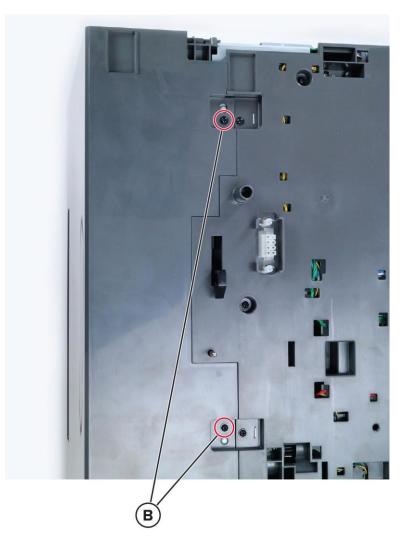
## 2100-sheet tray left cover removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- 2 Remove the 2100-sheet tray rear cover. See <u>"2100-sheet tray rear cover removal" on page 560</u>.

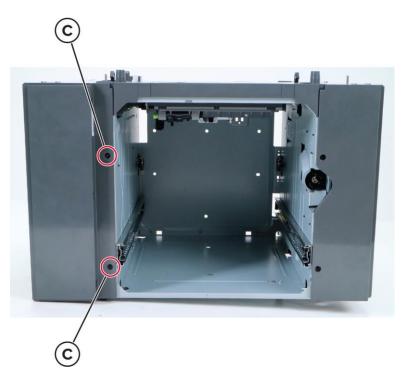
**3** From the rear side, remove the two screws (A).



**4** From the top side, remove the two screws (B).



**5** From the front side, remove the two screws (C).

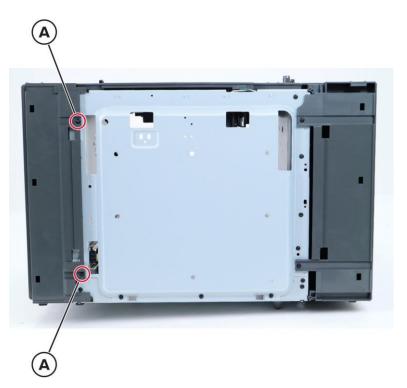


**6** Remove the cover.

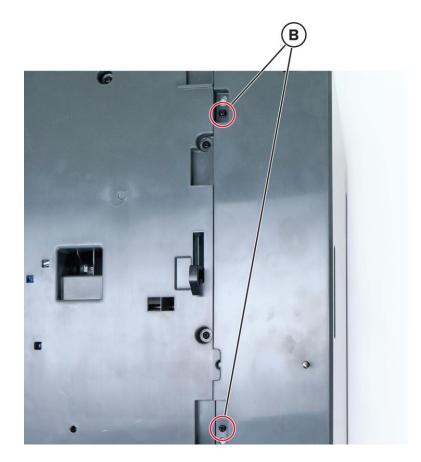
## 2100-sheet tray right cover removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- 2 Remove the 2100-sheet tray rear cover. See <u>"2100-sheet tray rear cover removal" on page 560</u>.

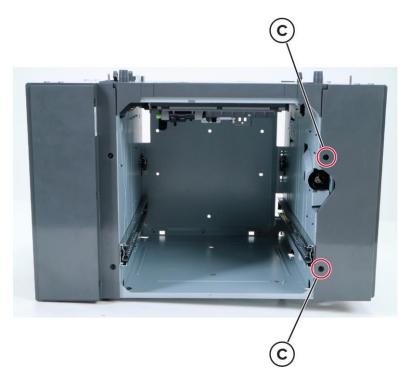
**3** From the rear side, remove the two screws (A).



**4** From the top side, remove the two screws (B).



**5** From the front side, remove the two screws (C).



**6** Remove the cover.

Installation note: When installing the right cover, make sure that the latch is positioned as shown.



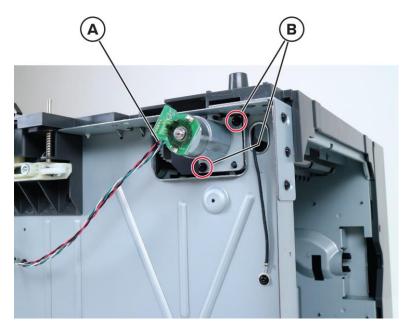
#### Motor (2100-sheet tray transport) removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- 2 Remove the 2100-sheet tray rear cover. See <u>"2100-sheet tray rear cover removal" on page 560</u>.
- 3 Remove the 2100-sheet tray left cover. See <u>"2100-sheet tray left cover removal" on page 560</u>.

Parts removal

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4 Disconnect the cable (A), and then remove the two screws (B).

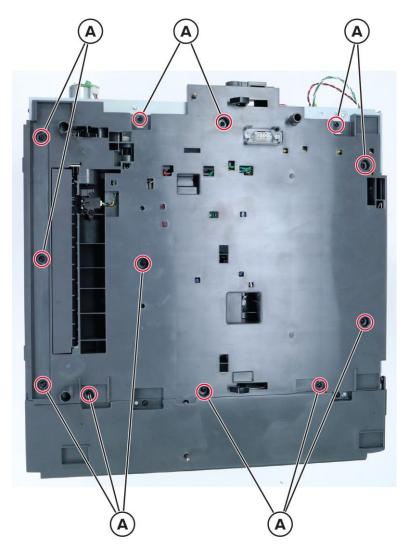


**5** Remove the motor.

#### 2100-sheet tray top cover removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- 2 Remove the 2100-sheet tray rear cover. See <u>"2100-sheet tray rear cover removal" on page 560</u>.
- **3** Remove the 2100-sheet tray left cover. See <u>"2100-sheet tray left cover removal" on page 560</u>.
- **4** Remove the 2100-sheet tray right cover. See <u>"2100-sheet tray right cover removal" on page 563</u>.
- 5 Remove the motor (2100-sheet tray transport). See <u>"Motor (2100-sheet tray transport) removal" on</u> page 565.

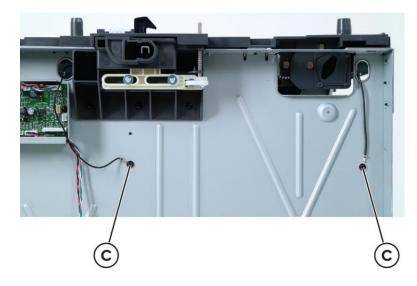
6 Remove the 12 screws (A).





7 Cut the cable tie, and then disconnect the motor cables from the controller board.

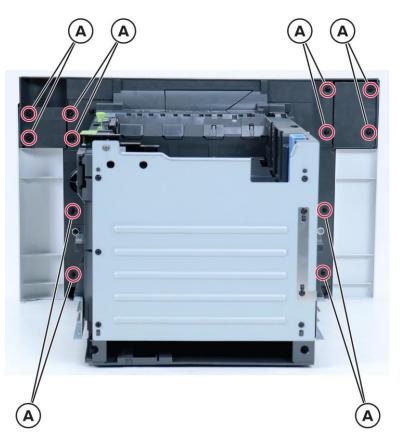
8 Remove the two screws (C) from the ground cables.



**9** Remove the cover.

## 2100-sheet tray front cover removal

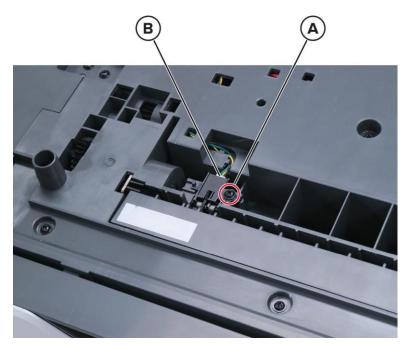
- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- **2** Behind the front cover, remove the 12 screws (A).



**3** Remove the cover.

## Sensor (2100-sheet tray pick) removal

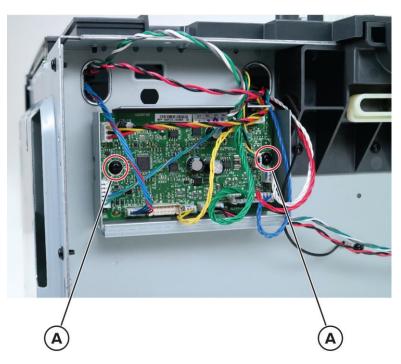
1 Remove the screw (A), and then disconnect the cable (B).



**2** Remove the sensor.

#### 2100-sheet tray controller board removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- 2 Remove the 2100-sheet tray rear cover. See <u>"2100-sheet tray rear cover removal" on page 560</u>.
- **3** Remove the 2100-sheet tray left cover. See <u>"2100-sheet tray left cover removal" on page 560</u>.



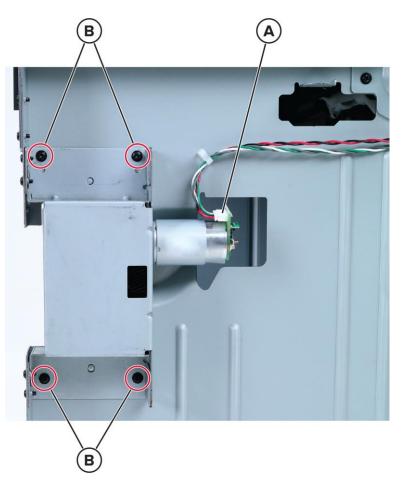
4 Disconnect all the board cables, and then remove the two screws (A).

**5** Remove the board.

#### 2100-sheet tray elevator drive removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- 2 Remove the 2100-sheet tray rear cover. See <u>"2100-sheet tray rear cover removal" on page 560</u>.
- **3** Remove the 2100-sheet tray right cover. See <u>"2100-sheet tray right cover removal" on page 563</u>.

**4** Disconnect the cable (A), and then remove the four screws (B).

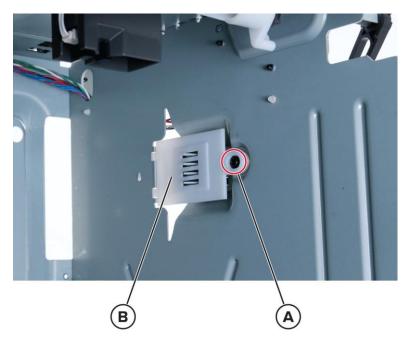


**5** Remove the elevator drive.

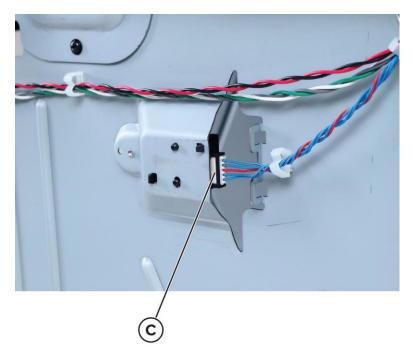
## Sensor (2100-sheet tray paper size) removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- 2 Remove the 2100-sheet tray rear cover. See <u>"2100-sheet tray rear cover removal" on page 560</u>.
- **3** Remove the 2100-sheet tray right cover. See <u>"2100-sheet tray right cover removal" on page 563</u>.

4 Remove the screw (A), and then remove the cover (B).

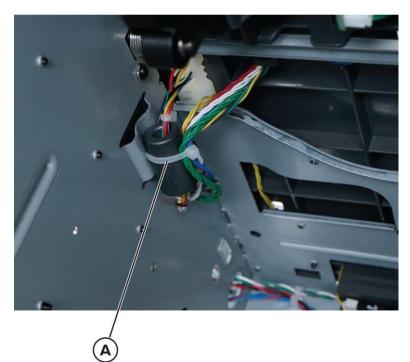


**5** Disconnect the sensor cable (C), and then remove the sensor.



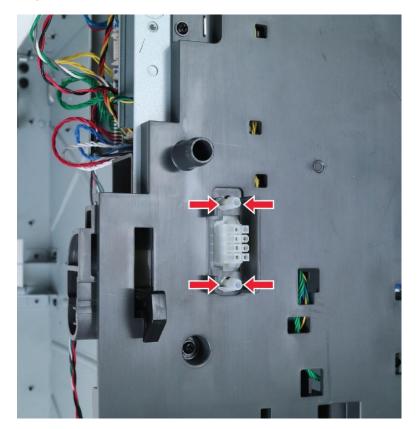
#### 2100-sheet tray interface cable removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- 2 Remove the 2100-sheet tray rear cover. See <u>"2100-sheet tray rear cover removal" on page 560</u>.
- 3 Remove the 2100-sheet tray left cover. See <u>"2100-sheet tray left cover removal" on page 560</u>.



**4** Cut the cable tie, and then disconnect the interface cable from the controller board.

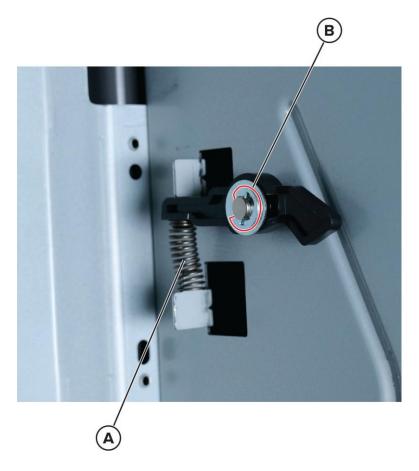
**5** Release, and then dislodge the connector from the cover.



**6** Remove the cable.

## 2100-sheet tray bellcrank removal

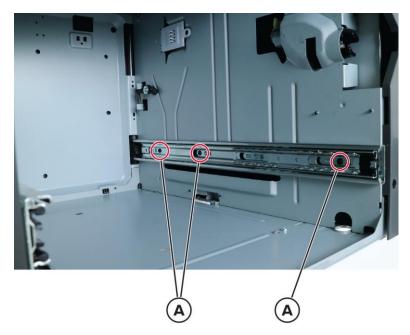
- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- **2** Remove the spring (A), and then remove the E-clip (B).



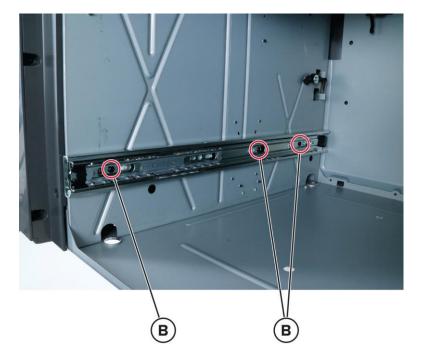
**3** Remove the bellcrank.

## 2100-sheet tray rails removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- **2** Remove the three screws (A) from the inner right side of the tray.



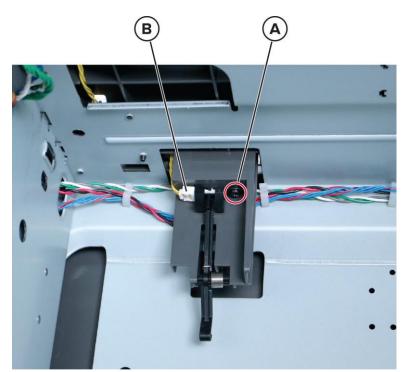
**3** Remove the three screws (B) from the inner left side of the tray.



**4** Remove the rails.

## Sensor (2100-sheet tray near empty) removal

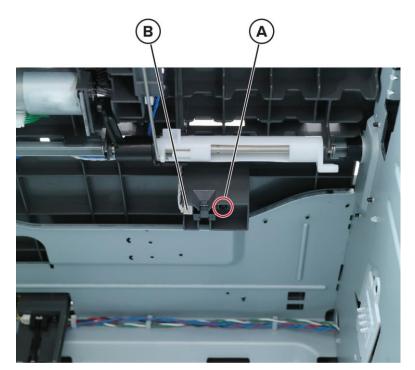
- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- **2** Remove the screw (A), and then disconnect the sensor cable (B).



**3** Remove the sensor.

## Sensor (2100-sheet tray A5 length guide) removal

- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- **2** Remove the screw (A), and then disconnect the sensor cable (B).



**3** Remove the sensor.

## Sensor (2100-sheet tray pick roller index) removal

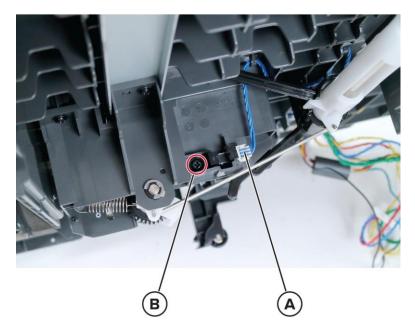
- 1 Remove the 2100-sheet tray insert. See <u>"2100-sheet tray insert removal" on page 559</u>.
- **2** Remove the 2100-sheet tray pick roller.

- **3** Remove the screw (A), and then disconnect the sensor cable (B).

4 Remove the sensor.

#### Sensor (2100-sheet tray paper present) removal

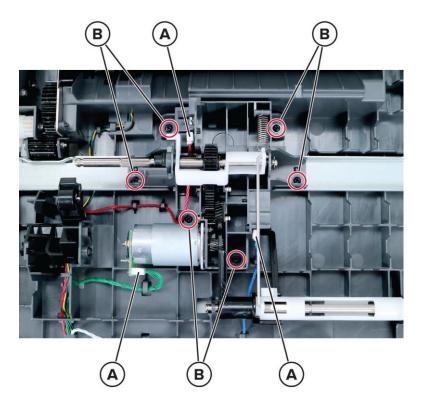
- 1 Remove the top cover. See <u>"2100-sheet tray top cover removal" on page 566</u>.
- **2** Disconnect the sensor cable (A), and then remove the screw (B).



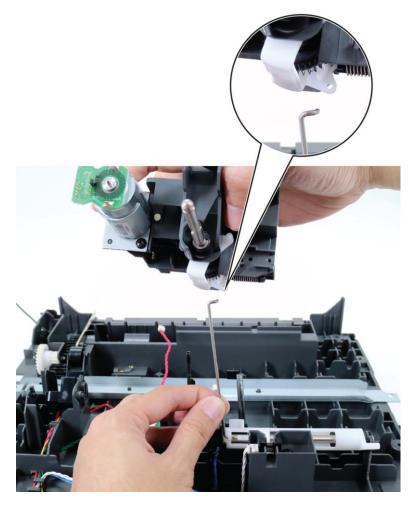
**3** Remove the sensor.

## 2100-sheet tray paper feeder removal

- 1 Remove the 2100-sheet tray top cover. See <u>"2100-sheet tray top cover removal" on page 566</u>.
- **2** Remove the 2100-sheet tray pick roller.
- **3** Disconnect the cables (A), and then remove the six screws (B).



#### **4** Release the rod.

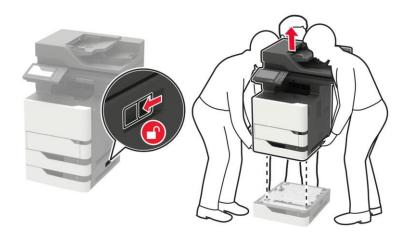


**5** Remove the paper feeder.

# **Optional 550-sheet tray removals**

## **Optional 550-sheet tray removal**

- 1 Press the latch to unlock.
- **2** Lift the printer or optional tray above the 550-sheet tray, and then separate the 550-sheet tray.

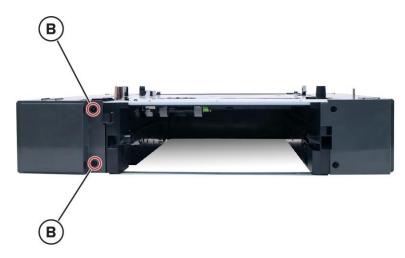


# 550-sheet tray left cover removal

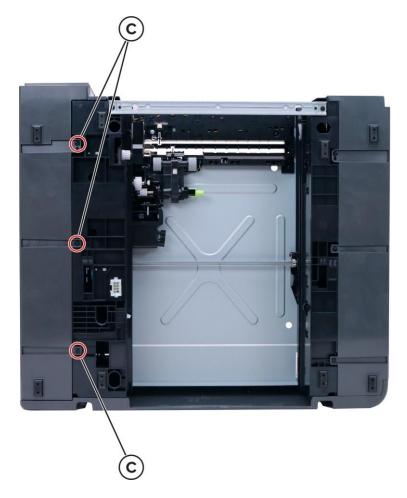
- 1 Remove the tray insert.
- **2** From the top side, remove the three screws (A).



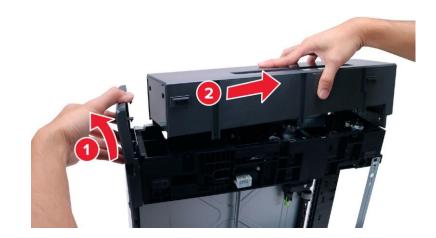
**3** From the front side, remove the two screws (B).



**4** From the bottom side, remove the three screws (C).



**5** Slightly pull the rear cover to release, and then remove the left cover.



# 550-sheet tray right cover removal

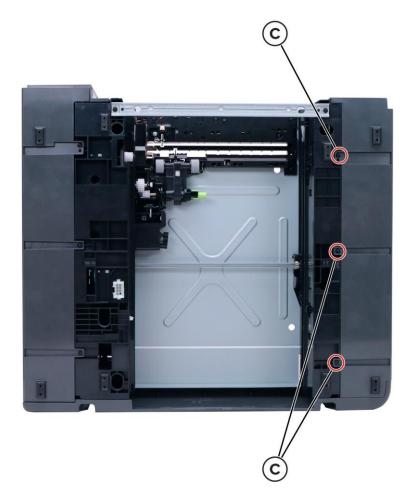
- 1 Remove the tray insert.
- **2** From the top side, remove the three screws (A).



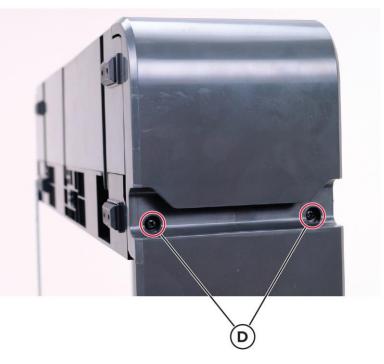
**3** From the front side, remove the two screws (B).



**4** From the bottom side, remove the three screws (C).



**5** From the rear side, remove the two screws (D).



**6** Pry the top and bottom tabs to release the cover.





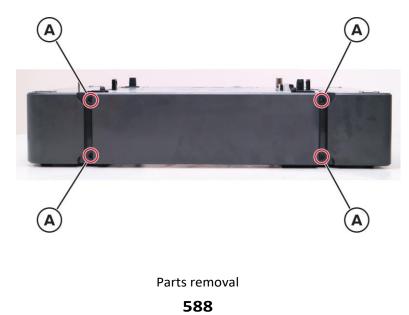
**7** Slightly pull the rear cover to release, and then remove the right cover.

**Installation note:** When installing the right cover, make sure that the latch is positioned as shown. After installation, make sure that the latch is working.



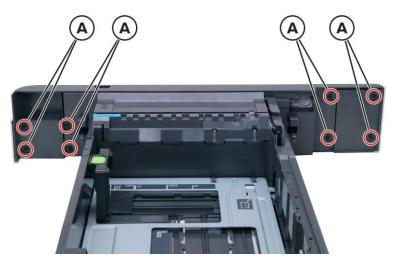
#### 550-sheet tray rear cover removal

- 1 Remove the tray insert.
- **2** Remove the four screws (A), and then remove the cover.



# 550-sheet tray insert front cover removal

- 1 Remove the tray insert.
- **2** Behind the cover, remove the eight screws (A).

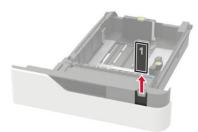


**3** Remove the cover.



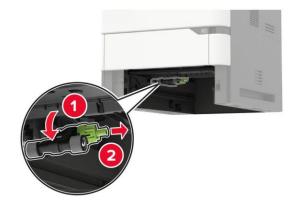
# Tray level indicator removal

- 1 Pull out the tray.
- **2** Remove the indicator.



#### **Pick roller removal**

- **1** Remove the tray insert.
- **2** Remove the pick roller.

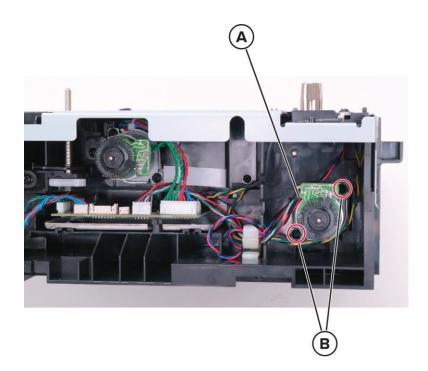


Parts removal

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## Motor (550-sheet tray transport) removal

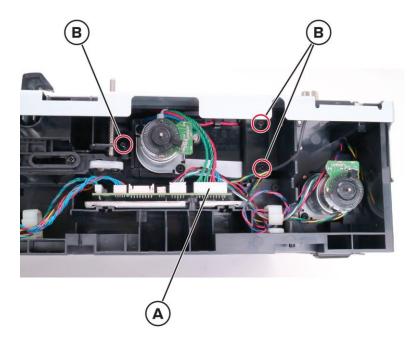
- 1 Remove the 550-sheet tray left cover. See <u>"550-sheet tray left cover removal" on page 583</u>.
- **2** Disconnect the cable (A), and then remove the two screws (B).



**3** Remove the motor.

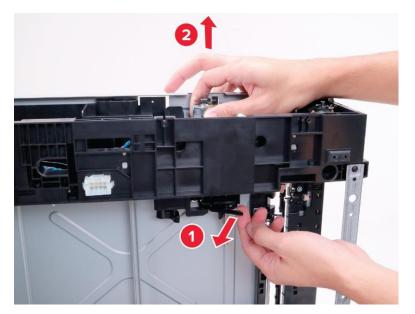
#### 550-sheet tray paper feeder removal

- 1 Remove the 550-sheet tray left cover. See <u>"550-sheet tray left cover removal" on page 583</u>.
- 2 Remove the pick roller. See <u>"Pick roller removal" on page 590.</u>



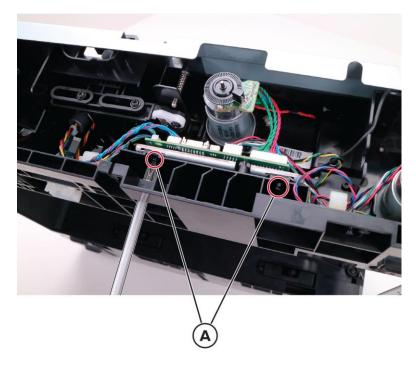
**3** Disconnect the cable (A), and then remove the three screws (B).

**4** Slightly pull the flag to release, and then remove the paper feeder.

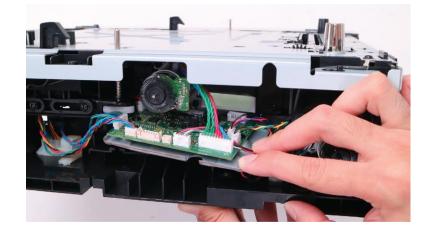


## 550-sheet tray controller board removal

- 1 Remove the 550-sheet tray left cover. See <u>"550-sheet tray left cover removal" on page 583</u>.
- **2** Remove the two screws (A), and then release the controller board bracket.



**3** Disconnect all the cables from the controller board.

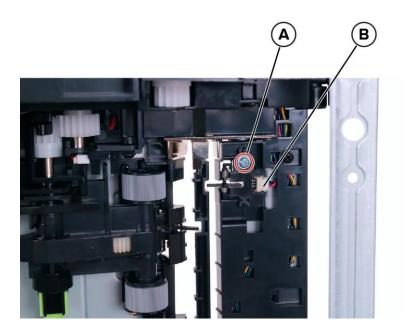




**4** Remove the two screws (B), and then remove the controller board.

#### Sensor (550-sheet tray pass-through) removal

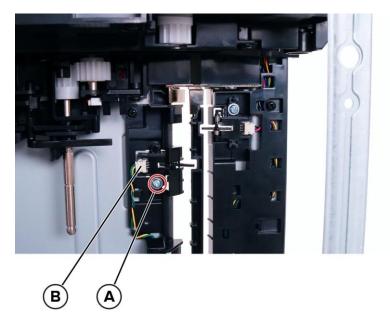
- 1 Remove the tray insert.
- 2 Remove the screw (A), and then disconnect the sensor cable (B).



**3** Remove the sensor.

#### Sensor (550-sheet tray pick) removal

- 1 Remove the tray insert.
- 2 Remove the pick roller. See <u>"Pickroller removal" on page 590</u>.



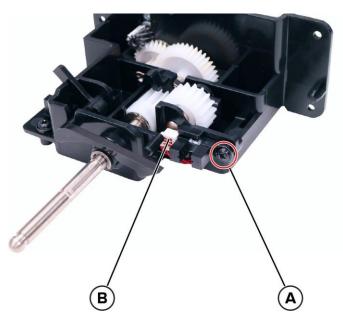
**3** Remove the screw (A), and then disconnect the sensor cable (B).

**4** Remove the sensor.

#### Sensor (550-sheet tray pick roller index) removal

- 1 Remove the tray insert.
- 2 Remove the 550-sheet tray left cover. See <u>"550-sheet tray left cover removal" on page 583</u>.
- **3** Remove the pick roller. See <u>"Pick roller removal" on page 590</u>.
- 4 Remove the 550-sheet tray paper feeder. See <u>"550-sheet tray paper feeder removal" on page 591</u>

**5** Remove the screw (A), and then disconnect the sensor cable (B).



**6** Remove the sensor.

#### Sensor (550-sheet tray paper present) removal

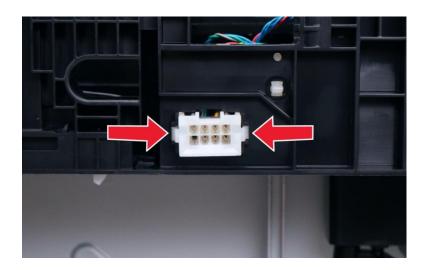
- 1 Remove the tray insert.
- **2** Remove the 550-sheet tray left cover. See <u>"550-sheet tray left cover removal" on page 583</u>.
- **3** Remove the pick roller. See <u>"Pick roller removal" on page 590</u>.
- **4** Remove the 550-sheet tray paper feeder. See <u>"550-sheet tray paper feeder removal" on page 591.</u>

- B A
- **5** Remove the screw (A), and then disconnect the sensor cable (B).

6 Remove the sensor.

#### 550-sheet tray interface cable removal

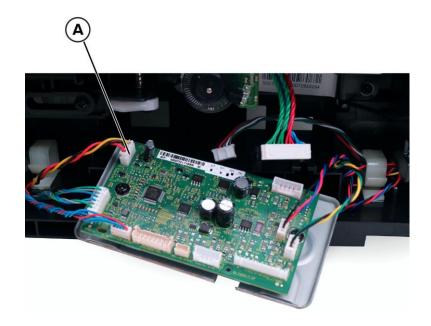
- <sup>1</sup> Remove the 550-sheet tray left cover. See <u>"550-sheet tray left cover removal" on page 583</u>.
- 2 Release the controller board bracket. See <u>"550 sheet tray controller board removal" on page 593</u>.
- **3** Press the latches to release, and then dislodge the connector from the bottom side.





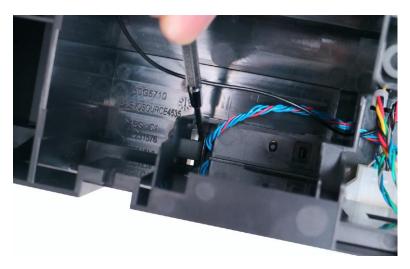
**4** Pinch the latches to release, and then dislodge the connector from the top side.

**5** Disconnect the cable (A), and then remove it.



#### Sensor (550-sheet tray paper size) removal

- 1 Remove the 550-sheet tray left cover. See <u>"550-sheet tray left cover removal" on page 583</u>.
- **2** From the left side, pry the latch to release the sensor cover.



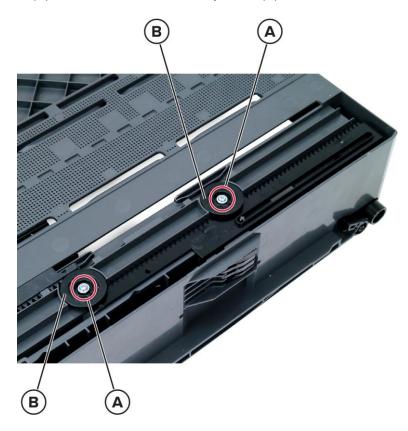
**3** From the bottom side, press the latch to release the sensor.



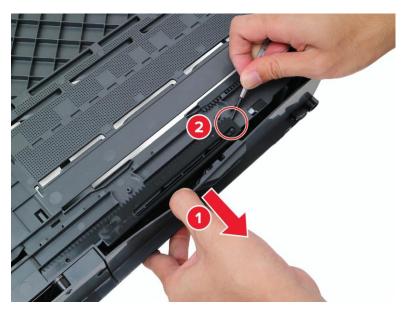
- **4** Disconnect the cable, and then remove the sensor.

#### 550 sheet tray paper size sensor actuator removal

- 1 Remove the tray insert.
- **2** On the tray insert, move the paper guide to the front side.
- **3** Under the tray insert, position the racks and pinions as shown. Remove the two screws (A), and then remove the two pinions (B).



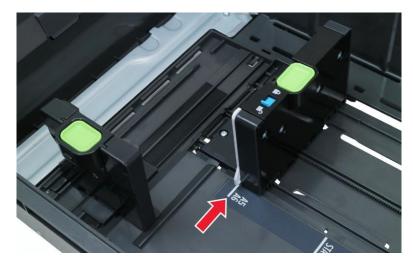
**4** Slightly pull the left cover to release, and then pry the rack to release.



**5** Remove the rack.

#### Installation notes:

**a** Make sure that the white indicator on the paper guide is aligned with the A5 and A6 label.



**b** Move the paper guide all the way to the front side of the tray to match the positions of the racks and pinions shown. Align the triangle and square icons on the pinions to the corresponding triangle and square icons on the racks.



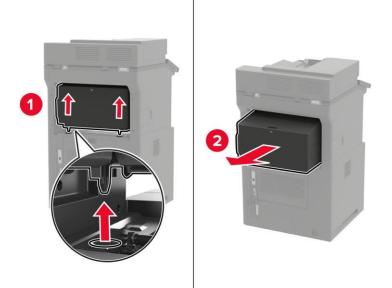
- **c** Make sure that the screws are not too tight so that the gears can still move.
- **6** Release the latch, and then remove the actuator.



# Optional staple finisher/offset stacker removals

## **Optional staple finisher/offset stacker removal**

Lift the optional bin to release, and then remove it.



Parts removal

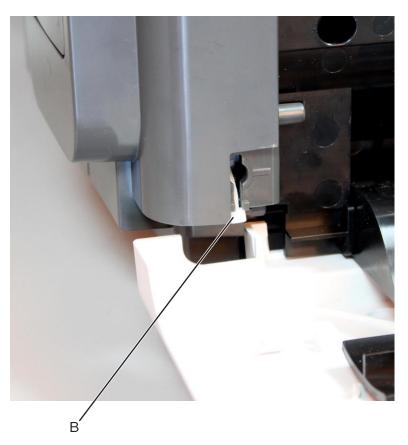
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## Staple finisher/offset stacker rear door removal

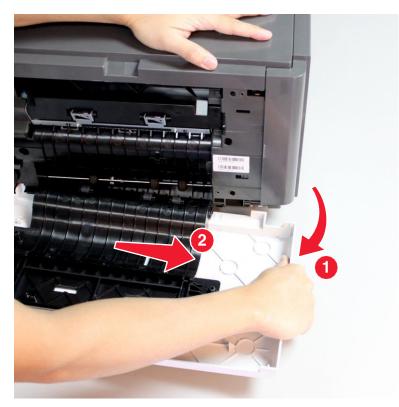
1 Open the rear door, and detach the string (A) from the door.



**Note:** Fasten the string end (B) to the rear side to prevent it from recoiling into the interior of the staple finisher/offset stacker.



**2** Position the door at an angle approximately 90 degrees from the staple finisher/offset stacker. Release the right hinge of the door first (1), then move the door to the right (2) to release the left hinge.



**3** Remove the rear door assembly.

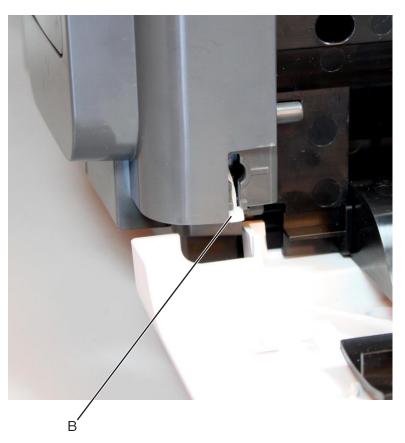
## Staple finisher/offset stacker left cover removal

Note: This part is not a FRU.

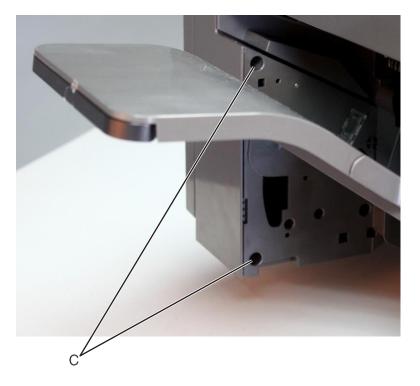
1 Open the rear door, and then detach the string (A) from the rear door.



**Note:** Fasten the string end (B) to the rear side to prevent it from recoiling into the interior of the staple finisher/offset stacker.

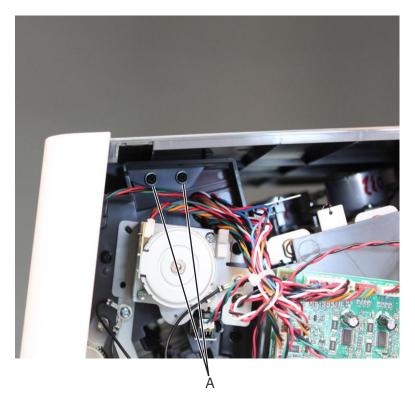


**2** Remove the two screws (C), and then remove the cover.

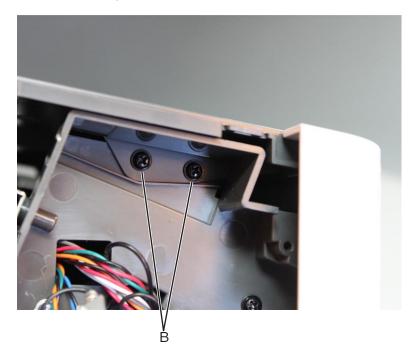


### Staple finisher/offset stacker top cover removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the two screws (A) from the left side.



**4** Remove the two screws (B) from the right side.



**5** Remove the top cover.

Parts removal

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## Staple finisher/offset stacker controller board removal

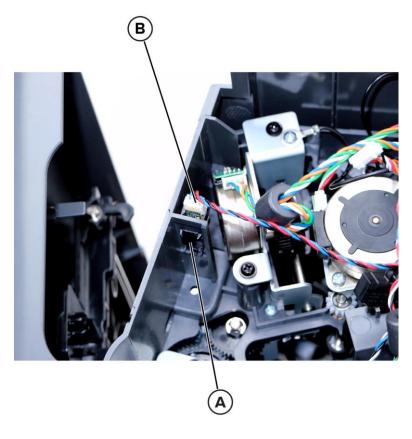
- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- **2** Disconnect all the cables from the controller board, and then remove the three screws (A).



**3** Remove the board.

## Sensor (staple finisher/offset stacker door) removal

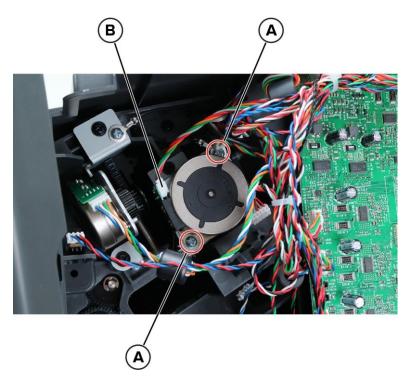
- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- **2** Remove the sensor retainer (A), and then disconnect the cable (B).



**3** Remove the sensor.

#### Motor (staple finisher/offset stacker paddle) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the two screws (A), and then disconnect the cable (B).



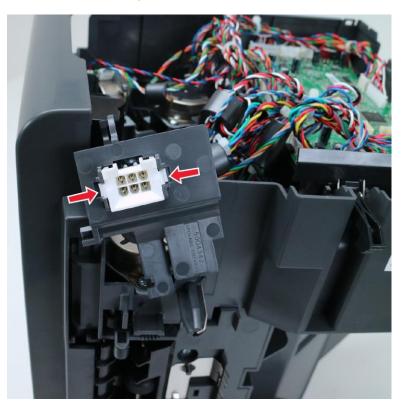
Installation note: Make sure that the two ground cables are reinstalled.

**3** Remove the motor.

# Staple finisher/offset stacker interface cable removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the staple unit. See <u>"Staple unit removal" on page 666</u>.

- <image>
- **3** Remove the two screws (A), and then release the connector bracket.

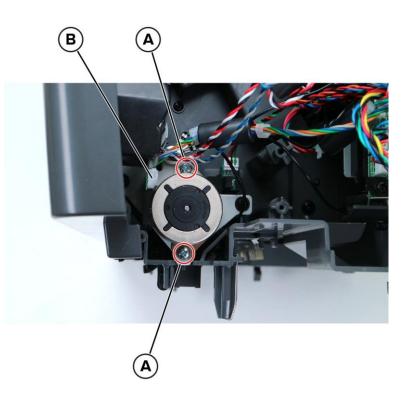


**4** Press the latches to release, and then dislodge the connector.

**5** Disconnect the interface cable from the controller board, and then remove it.

## Motor (staple finisher/offset stacker diverter) removal

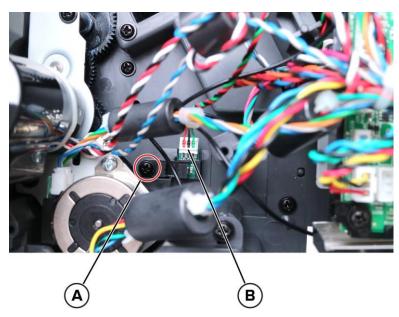
- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- **2** Remove the two screws (A), and then disconnect the cable (B).



**3** Remove the motor.

### Sensor (staple finisher/offset stacker diverter plunger) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- **2** Remove the screw (A), and then disconnect the cable (B).

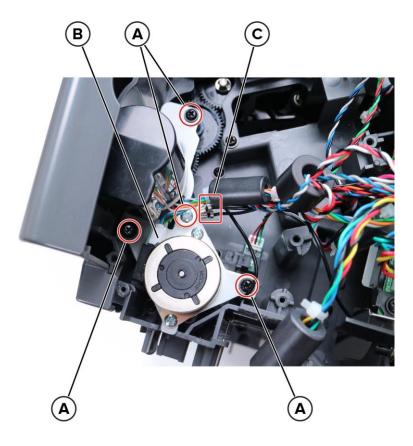


**3** Remove the sensor.

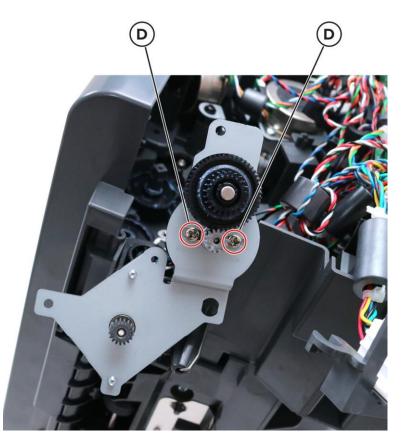
## Motor (staple finisher/offset stacker transport) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the interface cable. See <u>"Staple finisher/offset stacker interface cable removal" on page 612</u>.

**3** Remove the four screws (A), and then disconnect the cable (B) and the three ground cables (C).



**4** Remove the two screws (D), and then remove the motor.

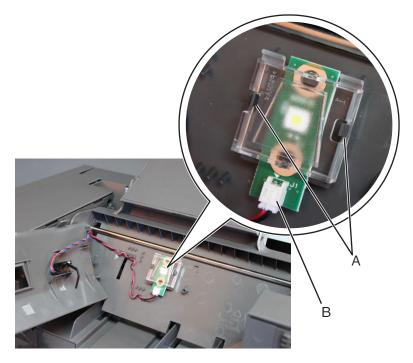


#### Standard bin LED removal

1 With a prying tool, open the LED cover.



2 Release the latches (A), and then remove the LED lens. Disconnect the cable (B), and then remove the LED.

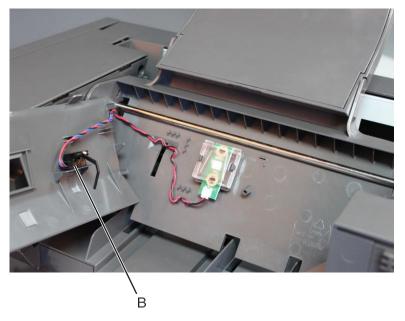


#### Sensor (staple finisher/offset stacker bin paper present) removal

- 1 Remove the staple finisher left cover. See <u>"Staple finisher/offset stacker left cover removal" on page</u> <u>606</u>.
- **2** With a prying tool, open the LED cover.



**3** Release the sensor (B) from the cover.

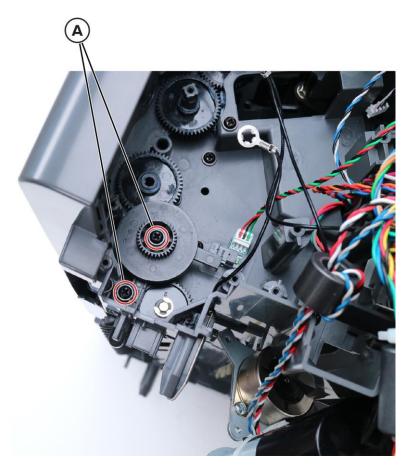


**4** Disconnect the sensor cable from the controller board, and then remove the sensor.

#### Staple finisher/offset stacker diverter plunger assembly removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the interface cable. See <u>"Staple finisher/offset stacker interface cable removal" on page 612</u>.
- **3** Release the motor bracket. See <u>"Motor (staple finisher/offset stacker transport) removal" on page 616</u>.

**4** Remove the two screws (A).

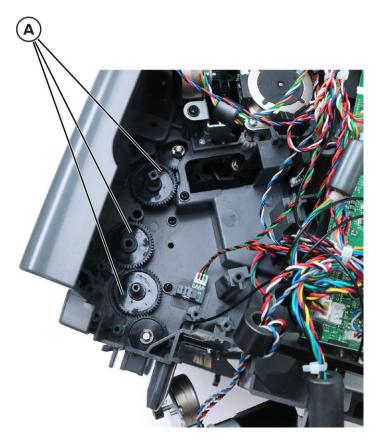


**5** Remove the plunger.

#### Staple finisher/offset stacker drive gear assembly removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the interface cable. See <u>"Staple finisher/offset stacker interface cable removal" on page 612</u>.
- **3** Release the motor bracket. See <u>"Motor (staple finisher/offset stacker transport) removal" on page 616</u>.
- 4 Remove the diverter plunger assembly. See <u>"Staple finisher/offset stacker diverter plunger assembly</u> removal" on page 620.

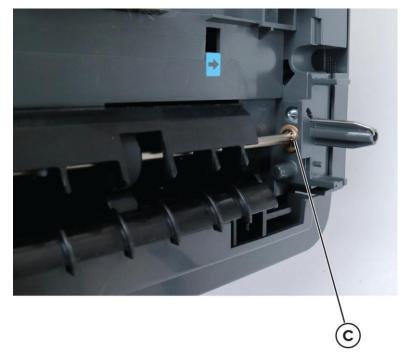
**5** Remove the three gears (A).



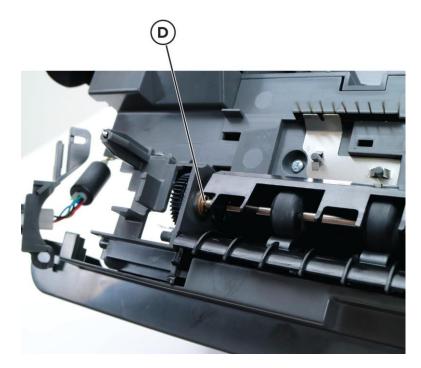
**6** Remove the gear behind the motor bracket.



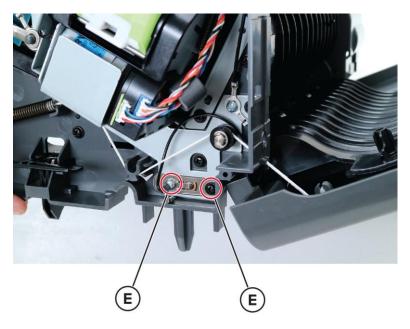
7 Remove the E-clip (C).



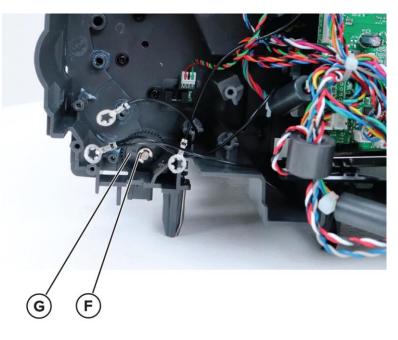
8 Remove the E-clip (D).



**9** Remove the two screws (E), and then remove the plate.

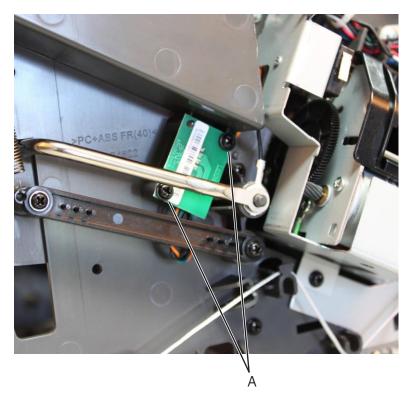


**10** Remove the E-clip (F), and then remove the gear (G).



#### Sensor (staple finisher/offset stacker bin full send) removal

- 1 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **2** Remove the two screws (A), and then release the sensor.



**3** Disconnect the cable (B), and then remove the sensor.

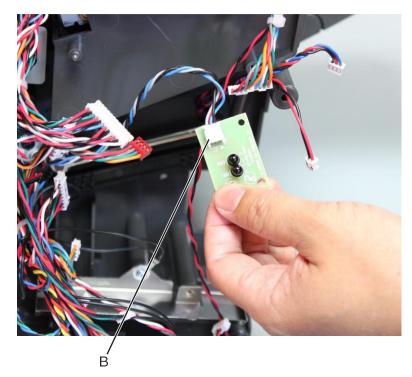


## Sensor (staple finisher/offset stacker bin full receive) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the controller board. See <u>"Staple finisher/offset stacker controller board removal" on page</u> <u>610</u>.

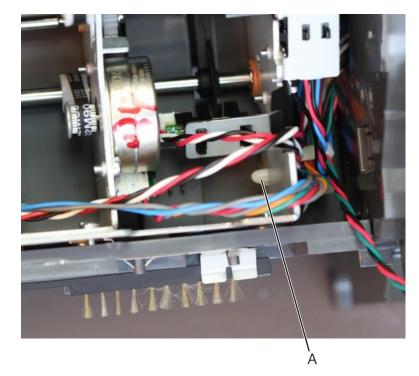
- <image>
- **3** Remove the two screws (A), and then release the sensor.

**4** Disconnect the cable (B), and then remove the sensor.

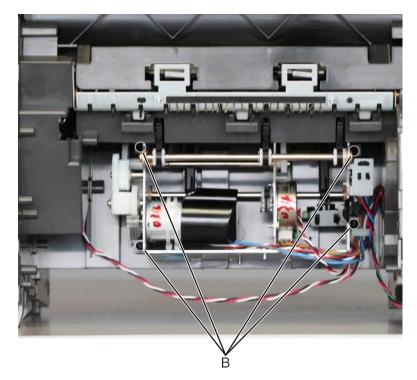


#### Sensor (staple finisher/offset stacker bin clamp) removal

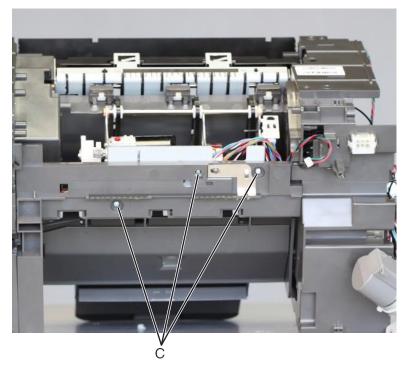
- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the diverter plunger assembly. See <u>"Staple finisher/offset stacker diverter plunger assembly</u> <u>removal" on page 620</u>.
- 4 Remove the drive gear assembly. See <u>"Staple finisher/offset stacker drive gear assembly removal" on</u> page 621.
- **5** Remove the entrance roller. See <u>"Staple finisher/offset stacker entrance roller removal" on page 652</u>.
- 6 Remove the chute assembly. See <u>"Staple finisher/offset stacker chute assembly removal" on page</u> <u>654</u>.
- **7** Remove the cable holder (A) from the frame.



#### 8 Remove the four screws (B).



**9** From the bottom side, remove the three screws (C).



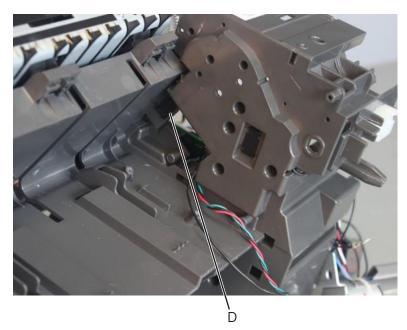
**10** Release the cables off their guides.

**Note:** Pay attention to the original route of the cables.

**11** Pull the motor assembly away from the machine.

Parts removal

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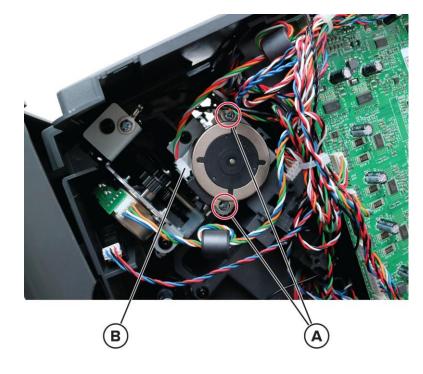


12 Remove the sensor retainer (D), and then release the sensor latches.

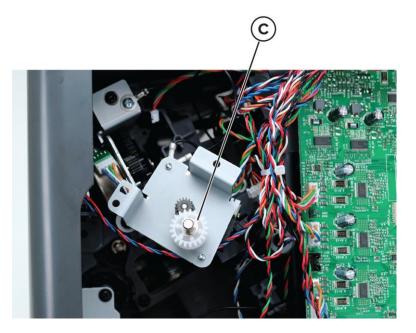
**13** From the other side of the frame, disconnect the sensor cable, and then remove the sensor.

#### Staple finisher/offset stacker paddle gear removal

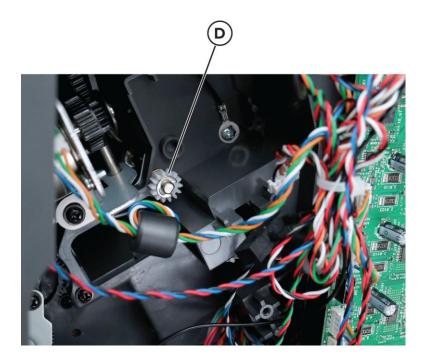
- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the interface cable. See <u>"Staple finisher/offset stacker interface cable removal" on page 612</u>.
- **3** Remove the two screws (A), disconnect the cable (B), and then release the motor bracket.



**4** Behind the motor bracket, remove the gear (C).



**5** Remove the gear (D).



## Sensor (staple finisher/offset stacker rear door interlock) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- **2** Disconnect the sensor cable (A).

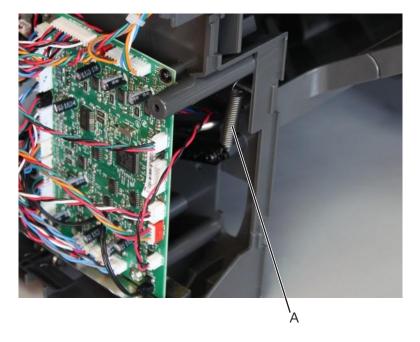


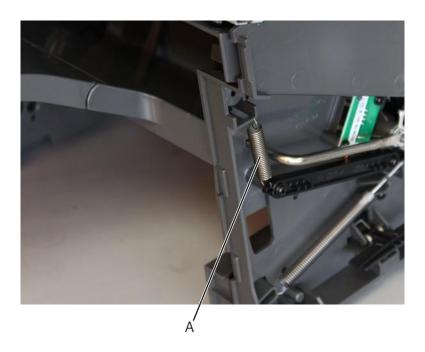
`Α

**3** Release the latches, and then remove the sensor.

#### Staple finisher/offset stacker bin spring removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Unhook the spring (A), and then remove it.

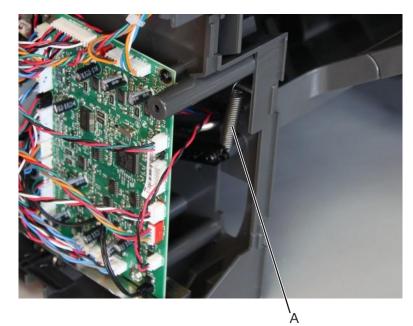


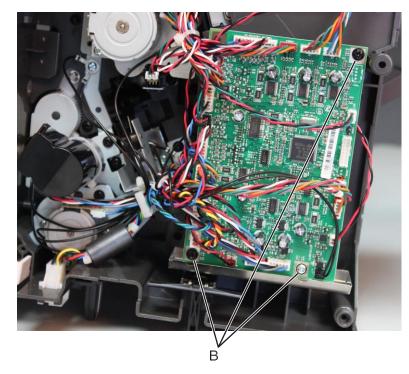


# Staple finisher/offset stacker bin link assembly removal

#### Left link removal

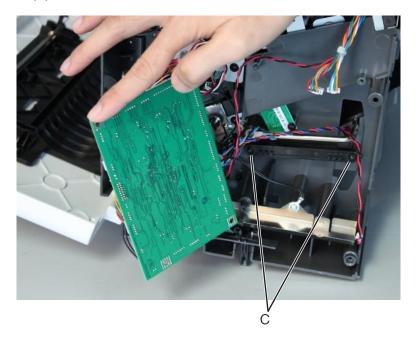
- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- **2** Unhook the spring (A), and then release the link.





**3** Remove the three screws (B), and then release the controller board. Move the board to access the link behind it.

4 Remove the two screws (C), and then remove the link.

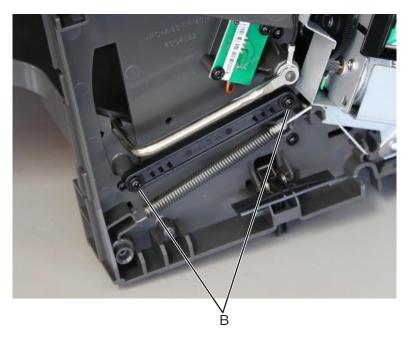


#### **Right link removal**

- 1 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **2** Unhook the spring (A), and then release the link.

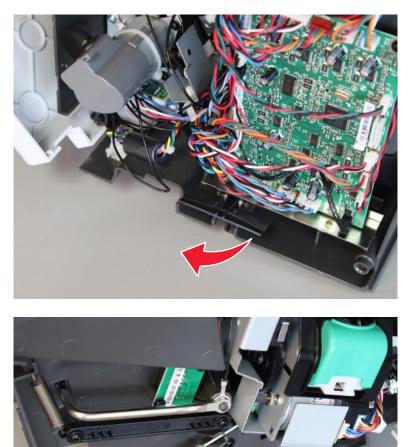


**3** Remove the two screws (B), and then remove the link.



# Staple finisher/offset stacker latch removal

- 1 Remove the left cover or right cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u> or <u>"Stapler right cover removal" on page 664</u>.
- **2** Pull the latch off the machine.



# Staple finisher/offset stacker spring with string removal

1 Open the rear door, and detach the string (A).



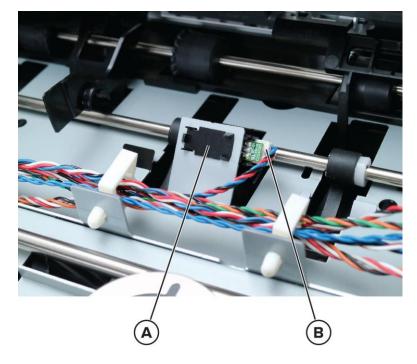
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the spring (B) with string.

**Installation note:** Pay attention to the original position of the string. The string on the pulley is wound clockwise.



# Sensor (staple finisher/offset stacker paddle) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.
- **4** Remove the sensor retainer (A), and then disconnect the cable (B).



**5** Remove the sensor.

## Motor (staple finisher/offset stacker right tamper) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 3 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.

- 4 Disconnect the cable (A), and then remove the two screws (B).

**5** Remove the motor.

## Motor (staple finisher/offset stacker left tamper) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 3 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.

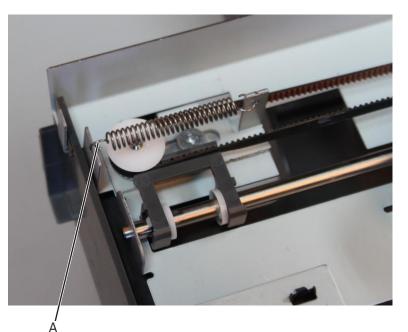
- 4 Disconnect the cable (A), and then remove the two screws (B).

**5** Remove the motor.

#### Staple finisher/Offset stacker tamper drive belt removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 3 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.
- 4 Remove the motor engaged to the belt. See <u>"Motor (staple finisher/offset stacker right tamper) removal"</u> on page 638 or <u>"Motor (staple finisher/offset stacker left tamper) removal" on page 639</u>.

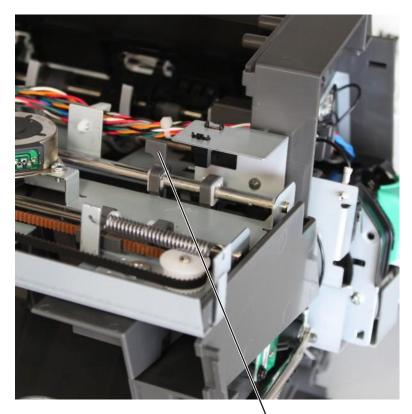
**5** Unhook the spring (A) to loosen and release the belt.



6 Remove the belt.

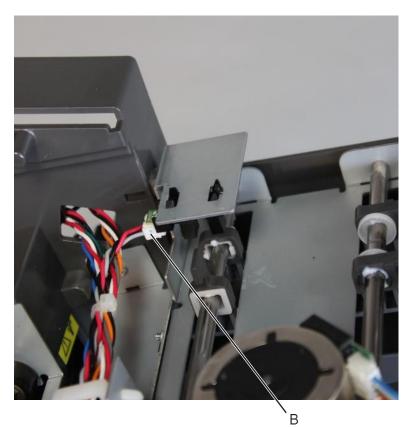
# Sensor (staple finisher/offset stacker right tamper) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.



**4** Slightly move the right tamper to clear the sensor flag (A) from the sensor.

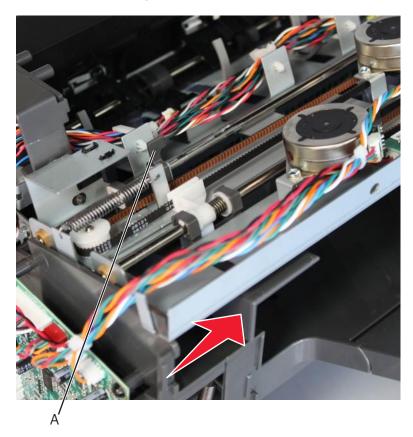
A



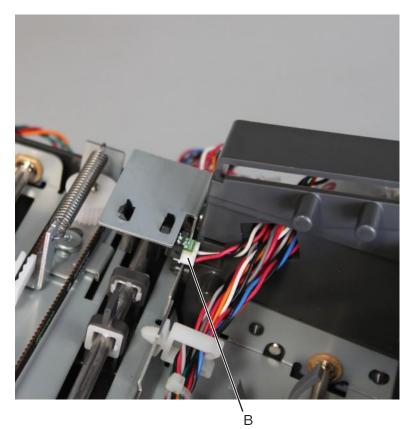
**5** Disconnect the sensor cable (B), and then remove the sensor.

## Sensor (staple finisher/offset stacker left tamper) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 3 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.



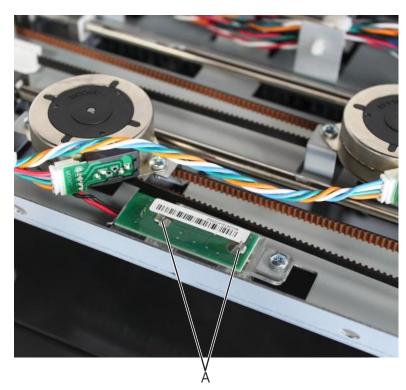
**4** Move the left tamper to clear the sensor flag (A) from the sensor.



**5** Disconnect the sensor cable (B), and then remove the sensor.

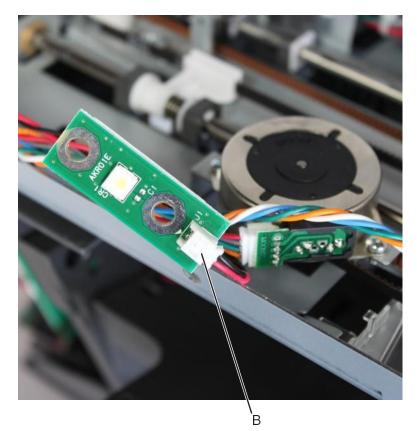
## Staple finisher/offset stacker bin LED removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 3 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.



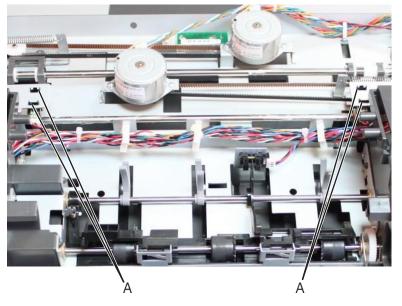
**4** Release the latches (A), and then release the LED.

**5** Disconnect the cable (B), and then remove the LED.

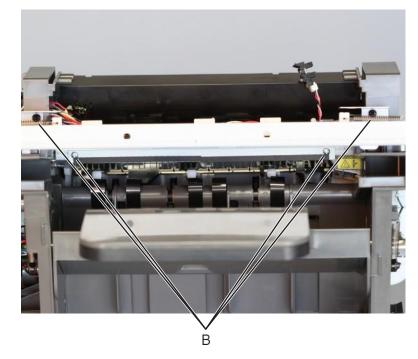


# Staple finisher/offset stacker tamper aligner removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 3 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.
- **4** Disconnect the tamper cables J2, J4, and J6 from the controller board.
- **5** Release the latches (A), and then release the sensors.

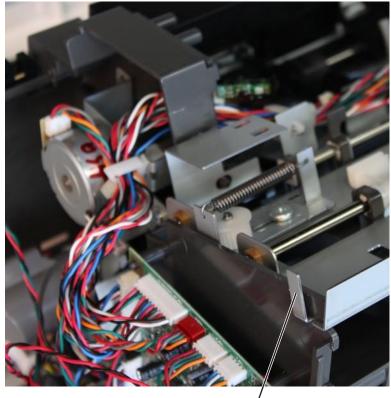


- 6 Remove the bin LED. See <u>"Staple finisher/offset stacker bin LED removal" on page 645</u>.
- 7 Remove the tamper motors. See <u>"Motor (staple finisher/offset stacker left tamper) removal" on page 639</u> and <u>"Motor (staple finisher/offset stacker right tamper) removal" on page 638</u>.
- 8 Remove the tamper drive belts. See <u>"Staple finisher/Offset stacker tamper drive belt removal" on</u> page 640.

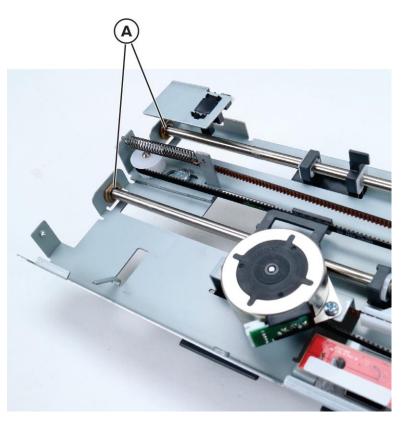


**9** Remove the four screws (B), and then remove the tamper assembly.

Installation note: Make sure that the tab (C) is correctly inserted into its designated slot.



**10** Release the tamper belts, remove the two E-clips (A), and then release the shafts.

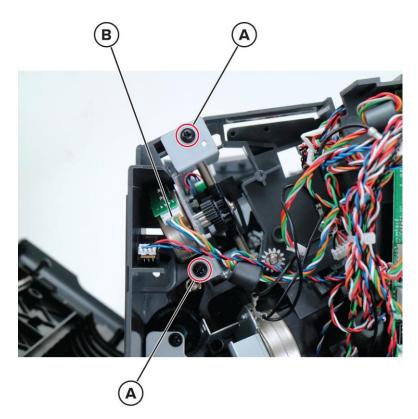


**11** Slide the tamper aligner off its shaft.

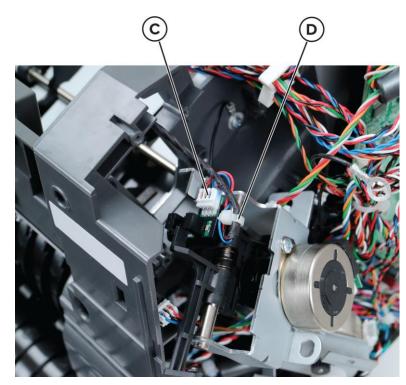
#### Staple finisher/offset stacker stack height assembly removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 3 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.
- 4 Release the motor bracket. See <u>"Staple finisher/offset stacker paddle gear removal" on page 630</u>.

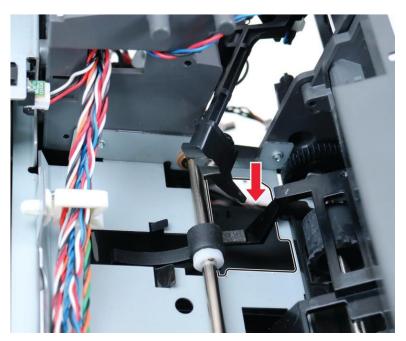
**5** Remove the two screws (A), disconnect the cable (B), and then release the assembly bracket.



**6** Disconnect the cable (C), and then cut the cable tie (D).



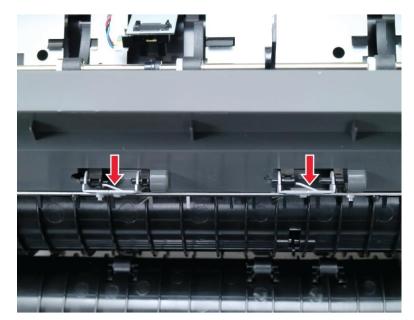
**7** Remove the stack height assembly.



Installation note: Make sure that the stack height actuator is inserted properly.

#### Staple finisher/offset stacker paper stack flap removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 3 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.
- **4** Press the two locks to release the flap hinges.

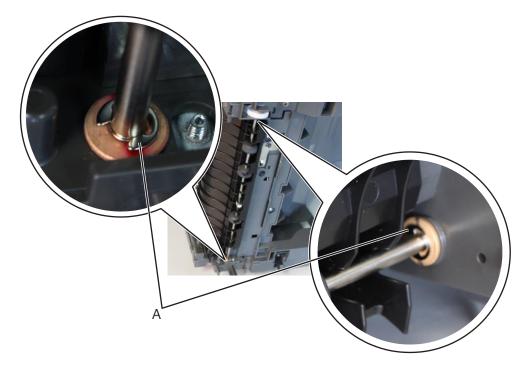


**5** Remove the flap.

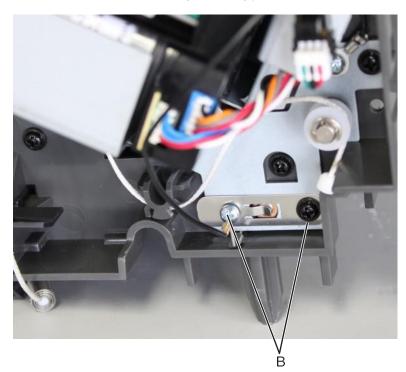
## Staple finisher/offset stacker entrance roller removal

Note: This part is not a FRU.

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the diverter plunger assembly. See <u>"Staple finisher/offset stacker diverter plunger assembly</u> <u>removal" on page 620</u>.
- 4 Remove the drive gear assembly. See <u>"Staple finisher/offset stacker drive gear assembly removal" on</u> page 621.
- **5** Remove the two E-clips (A).

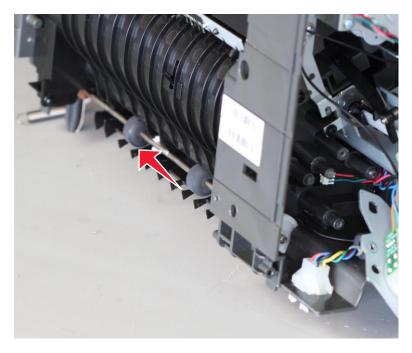


Warning—Potential Damage: Be careful not to lose the E-clips and spacers.



6 Remove the two screws (B), and then remove the grounding plate.

7 Slightly move the shaft to release, and then remove it.



Warning—Potential Damage: Be careful not to lose the bushing and spacers that hold the shaft.

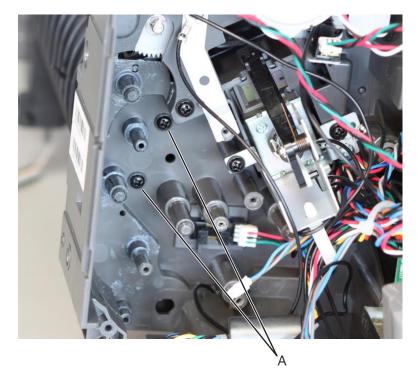
**Installation note:** To make it less difficult to reinstall the E-clip, use a pair of long-nose pliers to position it onto the shaft, and then lock it in place.



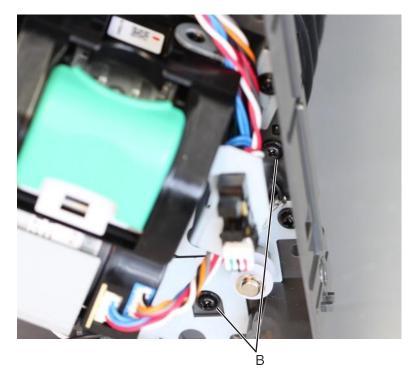
#### Staple finisher/offset stacker chute assembly removal

Note: This part is not a FRU.

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the diverter plunger assembly. See <u>"Staple finisher/offset stacker diverter plunger assembly</u> <u>removal" on page 620</u>.
- 4 Remove the drive gear assembly. See <u>"Staple finisher/offset stacker drive gear assembly removal" on</u> page 621.
- 5 Remove the entrance roller. See <u>"Staple finisher/offset stacker entrance roller removal" on page 652</u>.
- **6** From the left side, remove the two screws (A).



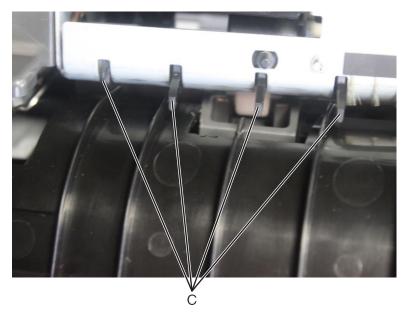
**7** From the right side, remove the two screws (B).



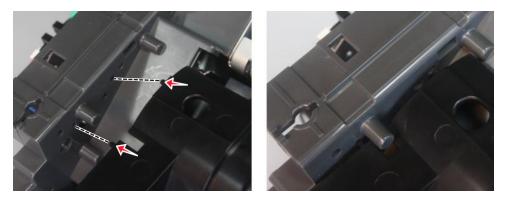
**8** Slightly push away the right frame to release the left part of the chute, while lifting the chute to dislodge it from its frame.

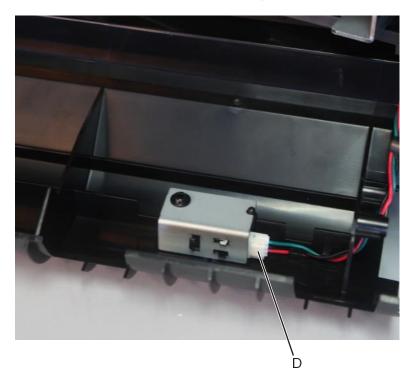


**9** Obstacles (C) may cause difficulty in removing the chute. Ease the chute out of obstacles (C), and release it from the bin.



Installation note: Insert the tabs to their corresponding slots.

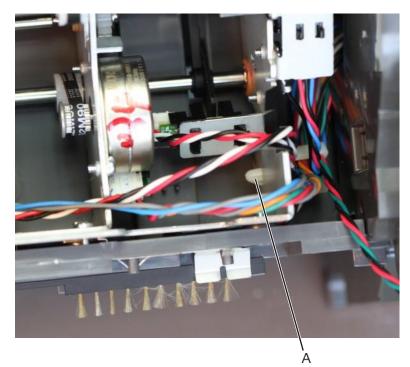




**10** Disconnect the cable (D), and then remove the chute assembly.

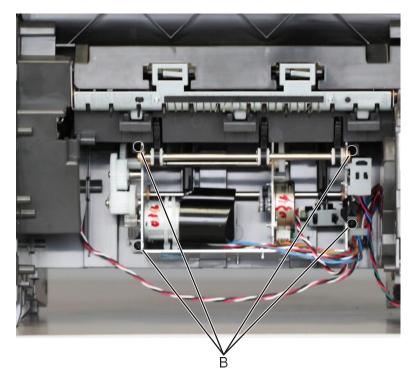
## Staple finisher/offset stacker ejector assembly removal

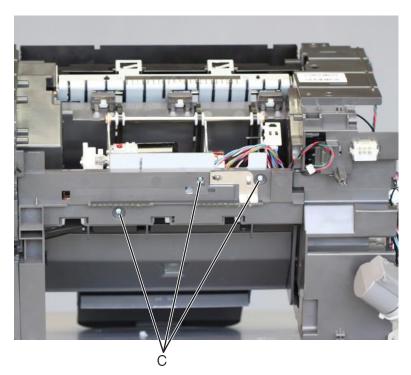
- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the diverter plunger assembly. See <u>"Staple finisher/offset stacker diverter plunger assembly</u> <u>removal" on page 620</u>.
- 4 Remove the drive gear assembly. See <u>"Staple finisher/offset stacker drive gear assembly removal" on</u> page 621.
- **5** Remove the entrance roller. See <u>"Staple finisher/offset stacker entrance roller removal" on page 652</u>.
- 6 Remove the chute assembly. See "Staple finisher/offset stacker chute assembly removal" on page 654.



**7** Release the cable holder (A) from the frame, and then remove it.

8 Remove the four screws (B).



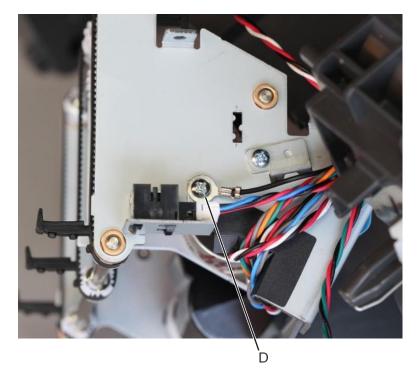


**9** From the bottom side, remove the three screws (C).

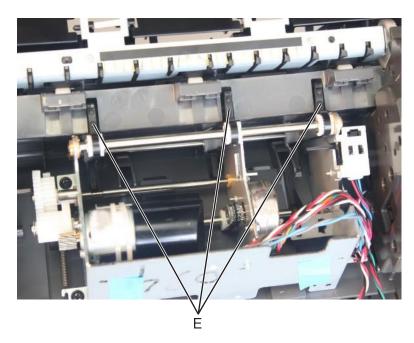
**10** Release the cables from their guides.

Note: Pay attention to the original route of the cables.

- **11** Pull the ejector assembly away from the machine.
- 12 Remove the screw (D), and then release the sensor bracket from the assembly.



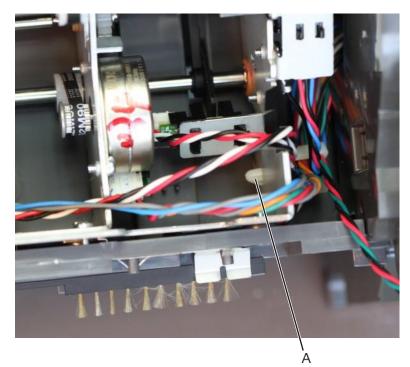
Installation note: Make sure that the paddles (E) align and fit properly.



Installation note: Make sure that the cables do not get in the way of moving parts.

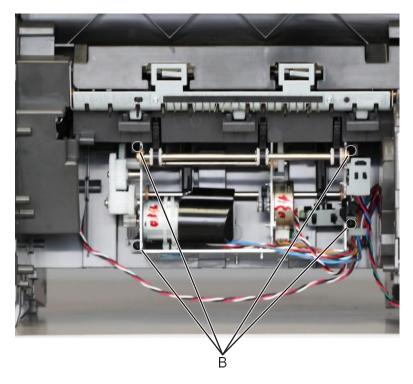
## Sensor (staple finisher/offset stacker ejector) removal

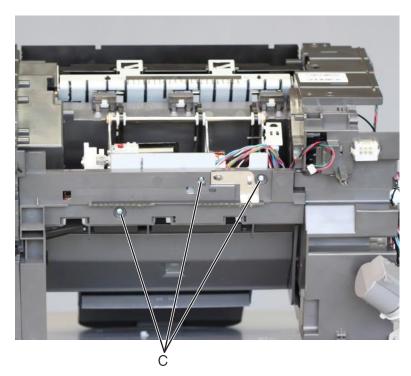
- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the diverter plunger assembly. See <u>"Staple finisher/offset stacker diverter plunger assembly</u> <u>removal" on page 620</u>.
- 4 Remove the drive gear assembly. See <u>"Staple finisher/offset stacker drive gear assembly removal" on</u> page 621.
- 5 Remove the entrance roller. See <u>"Staple finisher/offset stacker entrance roller removal" on page 652</u>.
- 6 Remove the chute assembly. See "Staple finisher/offset stacker chute assembly removal" on page 654.



**7** Release the cable holder (A) from the frame, and then remove it.

8 Remove the four screws (B).



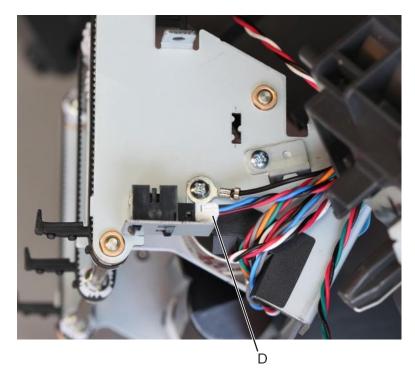


**9** From the bottom side, remove the three screws (C).

**10** Release the cables from their guides.

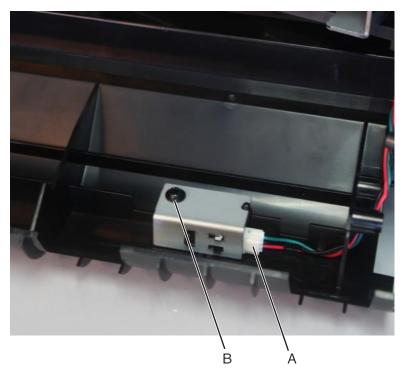
**Note:** Pay attention to the original route of the cables.

- **11** Pull the ejector assembly away from the bin.
- 12 Disconnect the sensor cable (D), and then remove the sensor.



## Sensor (staple finisher/offset stacker pass-through) removal

- 1 Remove the left cover. See <u>"Staple finisher/offset stacker left cover removal" on page 606</u>.
- 2 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- **3** Remove the diverter plunger assembly. See <u>"Staple finisher/offset stacker diverter plunger assembly</u> <u>removal" on page 620</u>.
- 4 Remove the drive gear assembly. See <u>"Staple finisher/offset stacker drive gear assembly removal" on</u> page 621.
- 5 Remove the entrance roller. See <u>"Staple finisher/offset stacker entrance roller removal" on page 652</u>.
- 6 Remove the chute assembly. See <u>"Staple finisher/offset stacker chute assembly removal" on page 654</u>.
- 7 Disconnect the cable (A), remove the screw (B), and then remove the sensor bracket.



**8** Remove the sensor from its bracket.

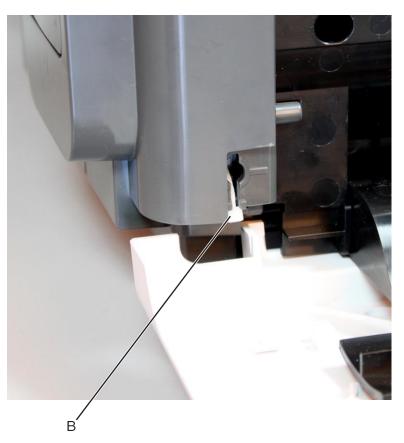
# Stapler-unique FRU removals

#### Stapler right cover removal

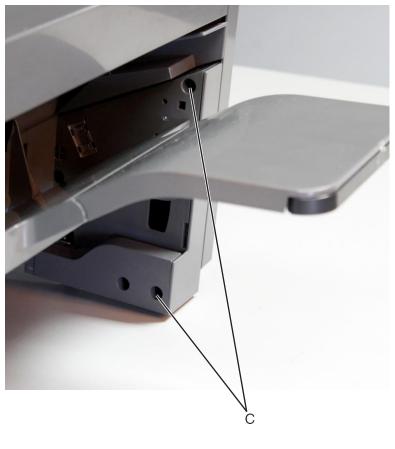
1 Open the rear door, then detach the string from the rear door.



Note: Fasten the string end (B) to the rear side to prevent it from recoiling into the interior of the finisher.



**2** Remove the two screws (C), then remove the right cover.



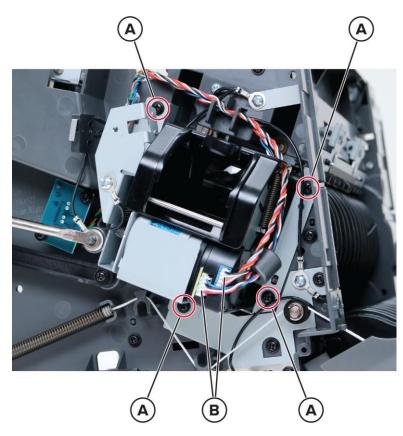
#### Staple cartridge access door removal

Open the access door (A), and then pull it off the cover.



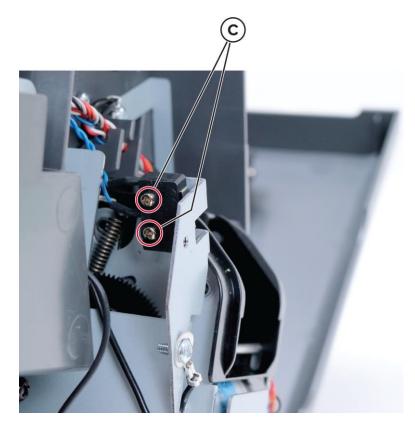
#### Staple unit removal

- 1 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 2 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.

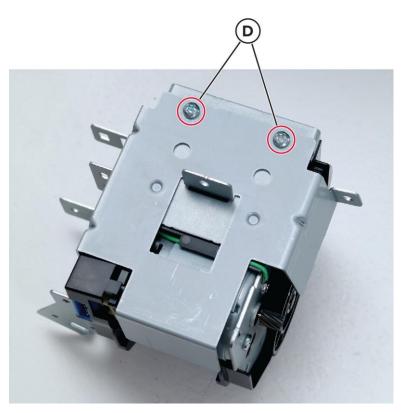


**3** Remove the four screws (A), and then disconnect the two cables (B).

**4** Remove the two screws (C), and then release the switch.

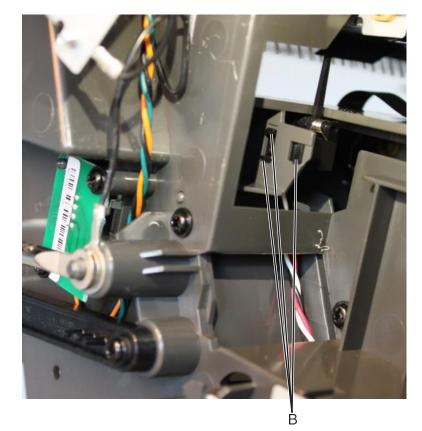


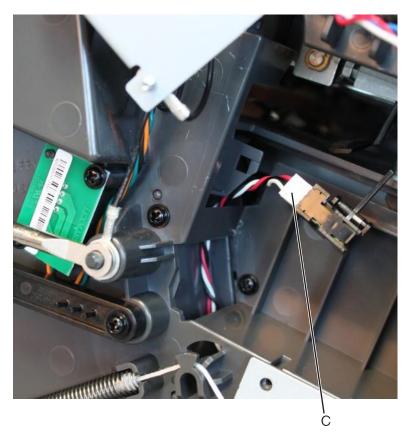
**5** Remove the staple unit carriage, and then remove the two screws (D).



#### Sensor (staple throat paper present) removal

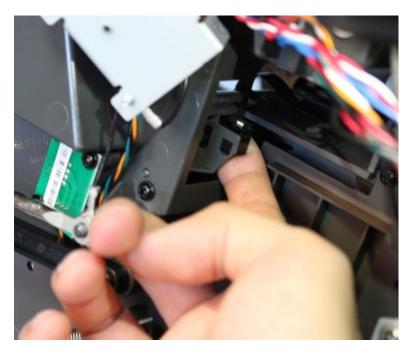
- 1 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 2 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.
- **3** Remove the staple unit carriage. See <u>"Staple unit removal" on page 666</u>.
- **4** Release the latches (B), and then release the sensor from its bracket.





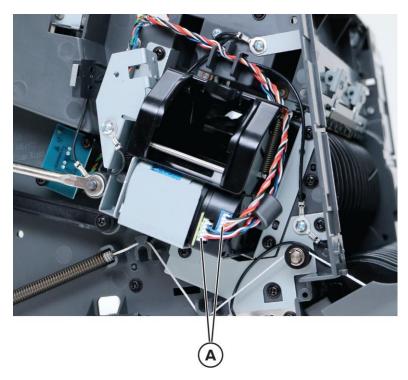
**5** Disconnect the cable (C), and then remove the sensor.

**Installation note:** Make sure that the sensor is properly installed. Push the sensor to its bracket until it is securely latched onto the frame.

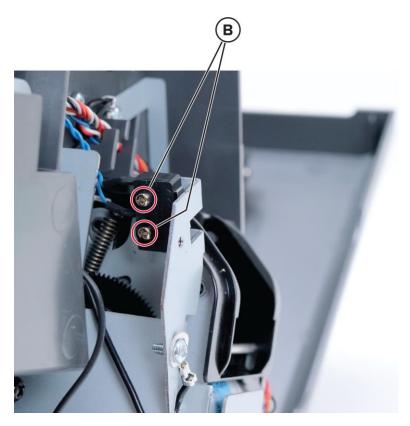


#### Staple cartridge door close limit switch removal

- 1 Remove the right cover. See <u>"Stapler right cover removal" on page 664</u>.
- 2 Remove the top cover. See <u>"Staple finisher/offset stacker top cover removal" on page 608</u>.
- **3** Disconnect the two cables (A).



**4** Remove the two screws (B), and then release the limit switch.



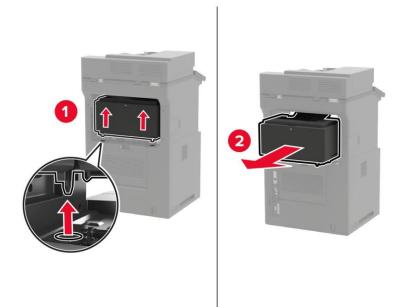
- **5** Disconnect the limit switch cable from the controller board.
- **6** Release, and then remove the limit switch.

Note: Pay attention to the original route of the cables.

# **Optional 4-bin mailbox removals**

# **Optional 4-bin mailbox removal**

Lift the mailbox to release, and then remove it.

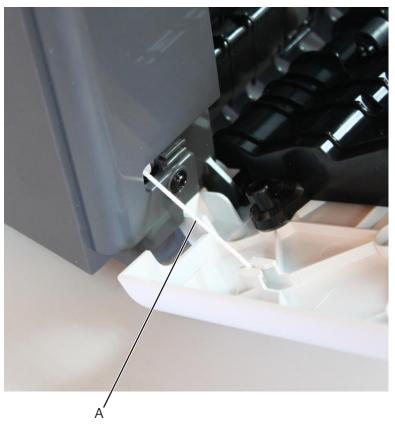


# Mailbox top cover removal

- 1 Lift the top cover.
- **2** Remove the top cover from the mailbox.

# Mailbox rear door removal

1 Open the rear door, and detach the string (A) from the door.



**Note:** Fasten the string end (B) to the rear side to prevent it from recoiling into the interior of the mailbox.



**2** Position the rear door at the angle shown, and pull the door off the mailbox.

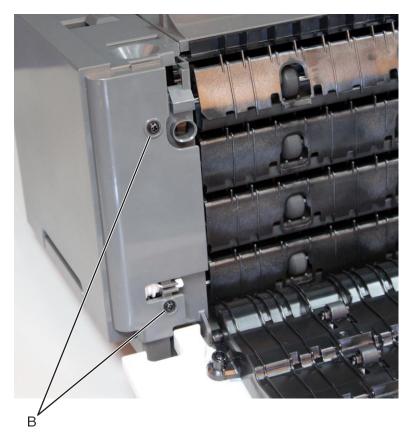


# Mailbox right cover removal

- <image>
- 1 Open the rear door, and then detach the string (A) from the door.

Note: Fasten the string to the rear side to prevent it from recoiling into the interior of the mailbox.

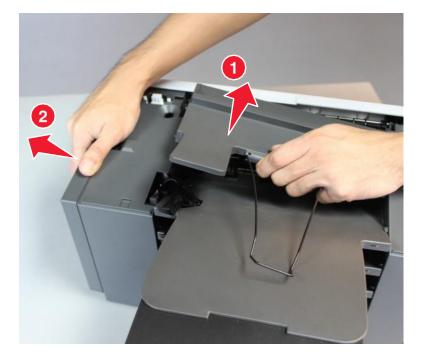
2 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.



**3** Remove the two screws (B) from the mailbox, and then remove the cover.

# Mailbox top bin cover with bail removal

1 Slightly push the inner frame of the mailbox to the left to release the bin cover, and then lift the bin cover.

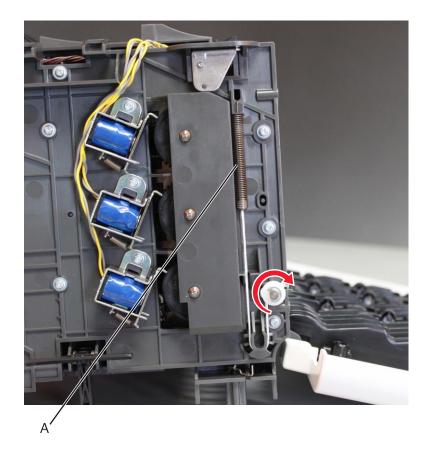


- **2** Release the mud bail flap from the bin cover, and then remove.

#### Mailbox spring with string removal

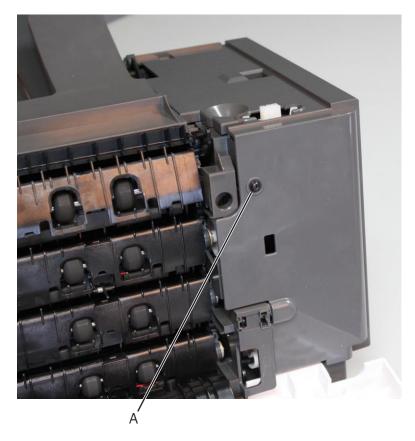
- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.
- 2 Remove the mailbox right cover. See <u>"Mailbox right cover removal" on page 676</u>.
- **3** Remove the spring (A) with string.

**Note:** Pay attention to the original position of the string. The string on the pulley is wound clockwise.



# Mailbox left cover removal

- 1 Open the rear door.
- 2 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.



**3** Remove the screw from the mailbox (A), then remove the left cover.

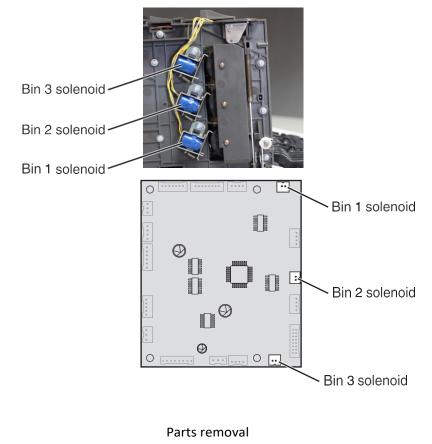
#### Mailbox solenoid removal

- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.
- 2 Remove the mailbox right cover. See <u>"Mailbox right cover removal" on page 676</u>.
- **3** Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.



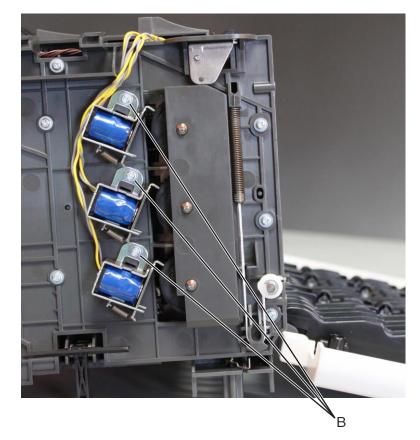
**4** Lift the middle portion of the cover to release the tabs (A), then remove the cover.

**5** Disconnect the solenoid cable (J2A, J2B, or J2C) from the controller board.



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**6** Remove the screw (B) securing the solenoid.



**7** Route the cable off the mailbox, then remove the solenoid.

# Mailbox latch removal

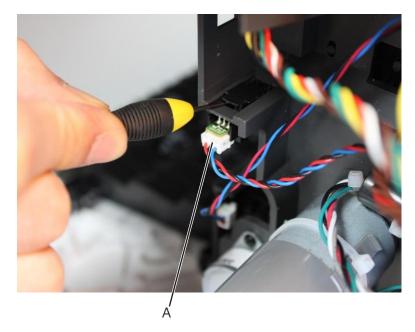
- 1 Remove the mailbox left cover or right cover. See <u>"Mailbox left cover removal" on page 679</u> or <u>"Mailbox right cover removal" on page 676</u>.
- **2** Pull the latches off the mailbox, and then remove.





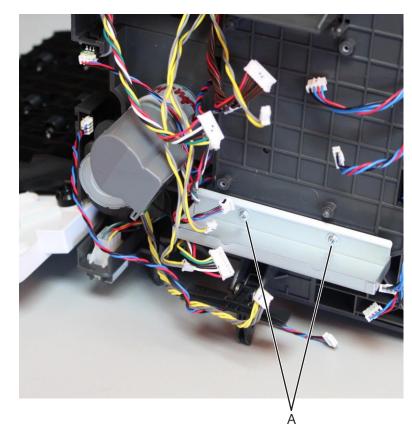
# Sensor (mailbox rear door interlock) removal

- 1 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- **2** Pry the mylar cover off the sensor latches.
- **3** Disconnect the cable (A), and then release the latches to remove the sensor.

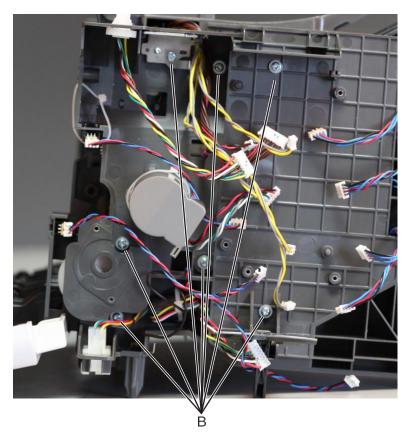


#### Mailbox transport drive gear removal

- 1 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- 2 Remove the mailbox rear door. See <u>"Mailbox rear door removal" on page 674</u>.

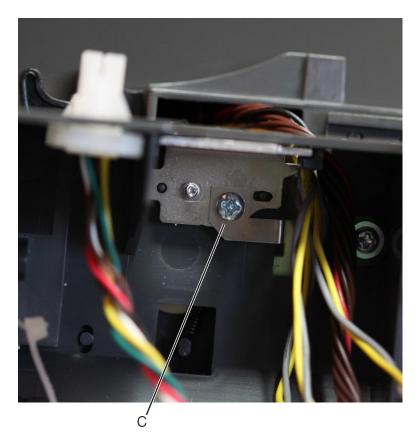


**3** Remove the two screws (A), and then remove the shield.

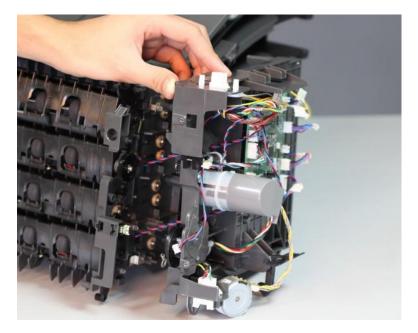


**4** Remove the seven screws (B) from the inner left frame.

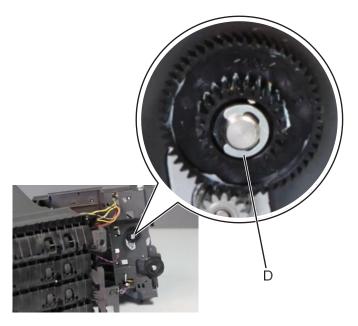
Note: Pay attention to the original position of the grounding plate (C).



**5** Move away the left inner frame to access the parts underneath it.

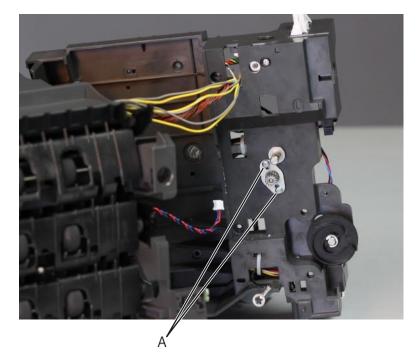


**6** Remove the E-clip (D), and then remove the gear.



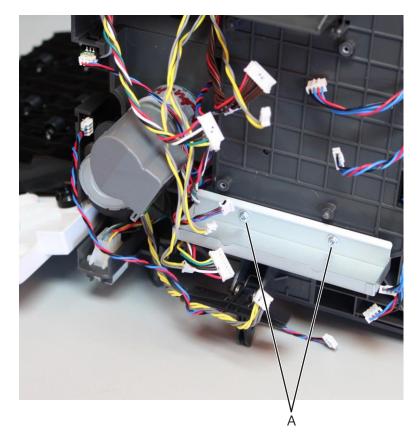
## Motor (mailbox transport) removal

- 1 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- 2 Remove the mailbox rear door. See <u>"Mailbox rear door removal" on page 674</u>.
- 3 Remove the mailbox main drive gear. See <u>"Mailbox transport drive gear removal" on page 683</u>.
- **4** Remove the two screws (A) behind the left frame, and then remove the motor.

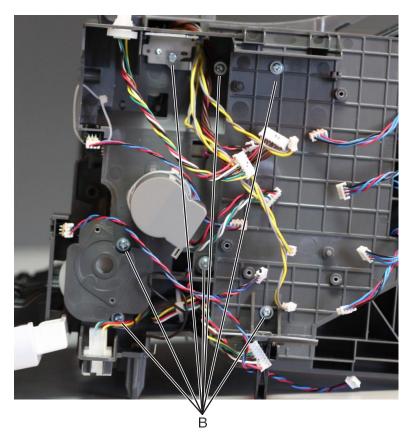


# Mailbox diverter plunger assembly removal

- 1 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- 2 Remove the mailbox rear door. See <u>"Mailbox rear door removal" on page 674</u>.
- **3** Remove the two screws (A), and then remove the shield.

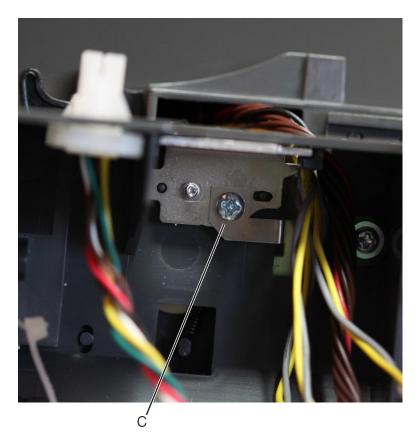




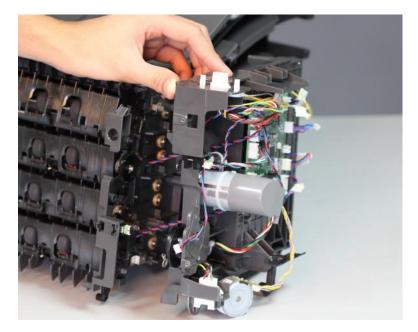


**4** Remove the seven screws (B) from the inner left frame.

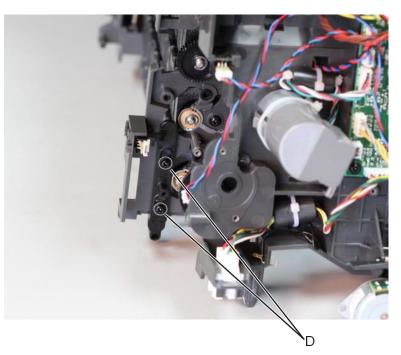
Note: Pay attention to the original position of the grounding plate (C).



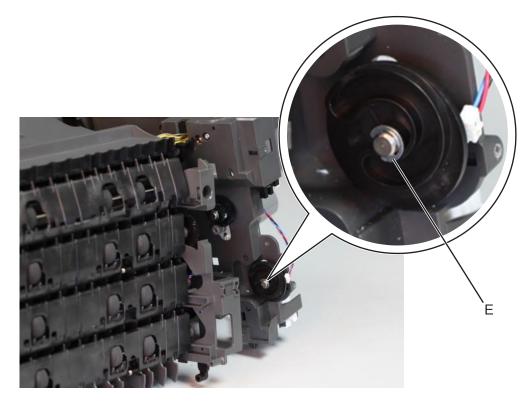
**5** Move away the left inner frame to access the parts underneath.



**6** Remove the two screws (D), and then remove the diverter plunger.

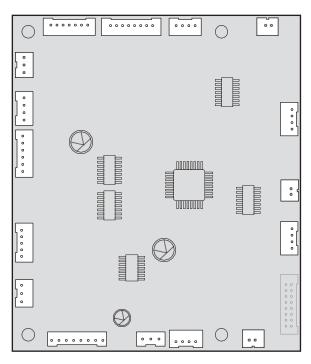


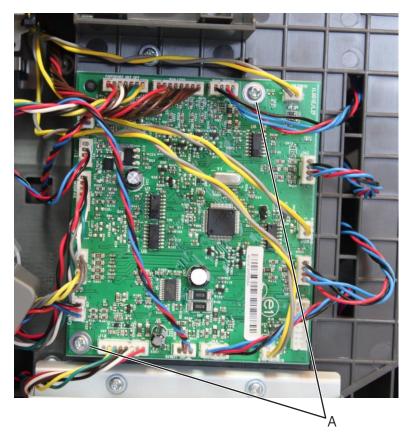
**7** Remove the E-clip (E) to release the cam, and then remove the diverter cam.



#### Mailbox controller board removal

- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.
- 2 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- **3** Disconnect all cables (J1B, J5, J4D, J2A, J4C, J2B, J4B, J2C, J4A, J8, J1A, J3B, J7, J6, J12, and J3T), and then remove the two screws (A) from the controller board.



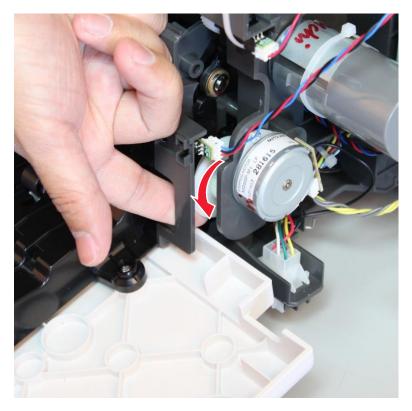


**4** Remove the controller board.

## Sensor (mailbox diverter plunger) removal

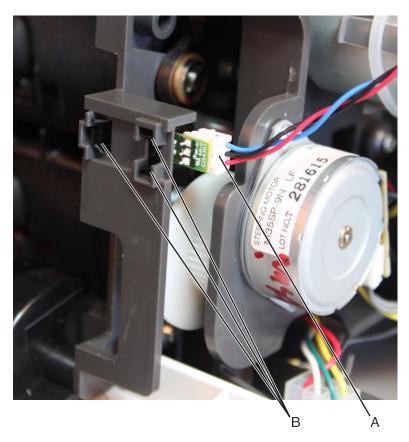
- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.
- 2 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.

**3** Rotate the cam to clear the sensor.



Parts removal

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**4** Disconnect the cable (A), and then release the sensor latches (B).

**5** Remove the sensor.

## Mailbox lower interface cable removal

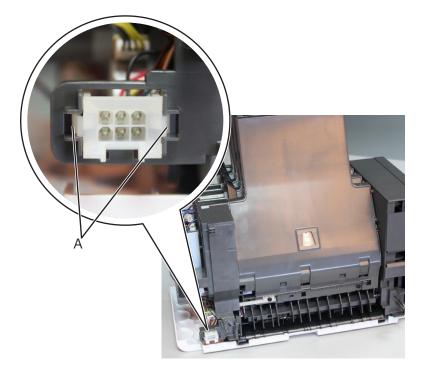
- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.
- 2 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.

- **3** Disconnect the lower interface cable J1A from the controller board.

**4** Cut the cable tie holding the lower interface cable.

Installation note: Make sure the cables don't get in the way of moving parts.

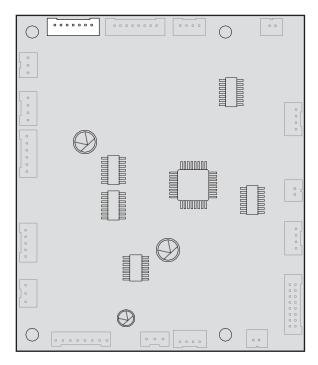
**5** Push inward to release the latches (A), then push the connector off its slot.



**6** Remove the lower interface cable.

# Mailbox upper interface cable removal

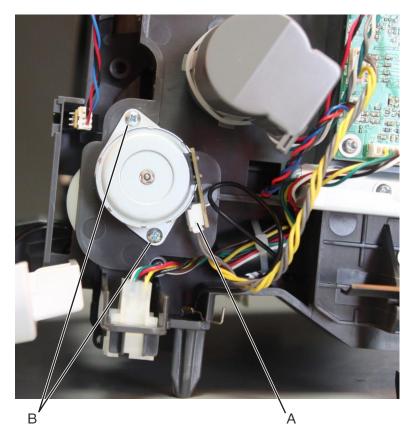
- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>,
- 2 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- **3** Disconnect the upper interface cable J1B from the controller board.



- 4 Crimp both connector pins, using pliers to make them fit the pin holes. Push the connector off its slot.
- **5** Remove the upper interface cable.

## Motor (mailbox diverter) removal

- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.
- 2 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.



**3** Disconnect the cable (A), and then remove the two screws (B) using a #1 Phillips screwdriver.

**4** Remove the motor.

Parts removal

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# Mailbox bin full flag removal

1 Pull the flag to release the flag hinge.

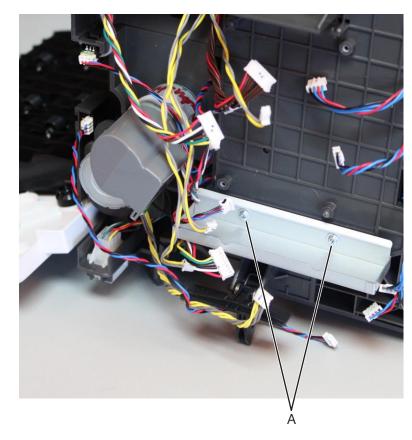


2 Release the flag from the mailbox, and then remove it.Installation note: Make sure that the flag hinge pins are inserted into their corresponding slots.

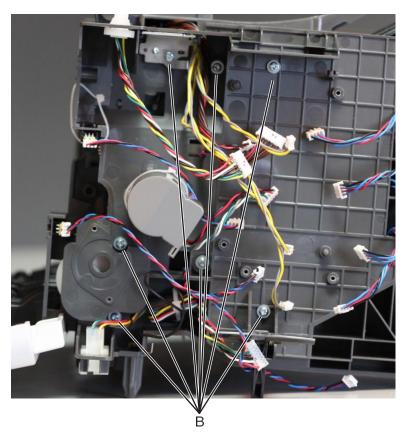


# Sensor (mailbox bin full) removal

- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.
- 2 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- **3** Remove the motor (mailbox diverter). See <u>"Motor (mailbox diverter) removal" on page 697</u>.
- 4 Remove the mailbox controller board. See <u>"Mailbox controller board removal" on page 692</u>.

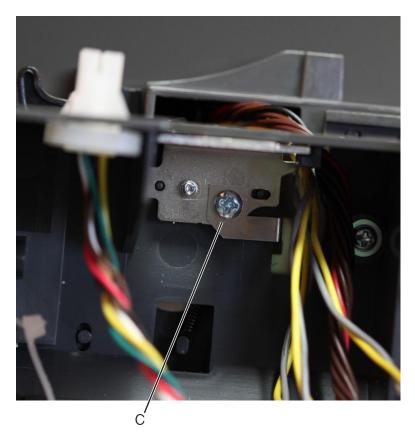


5 Remove the two screws (A), and then remove the shield.

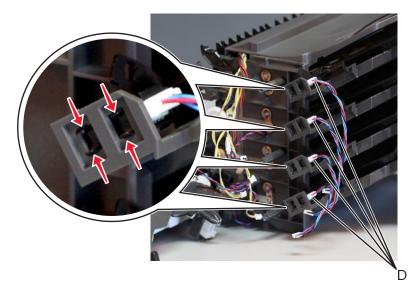


**6** Remove the seven screws (B), and then release the left frame.

Installation note: Pay attention to the original position of the grounding plate (C).



- 7 Slightly pull the left frame to access the sensors behind it.
- **8** Disconnect the sensor cable (D), and then remove the sensor.

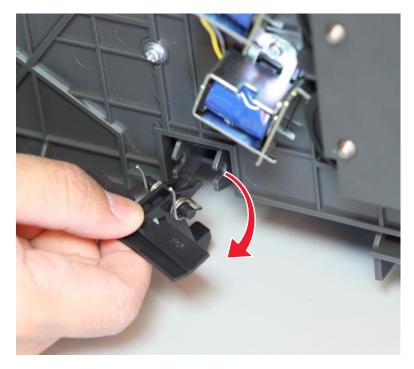


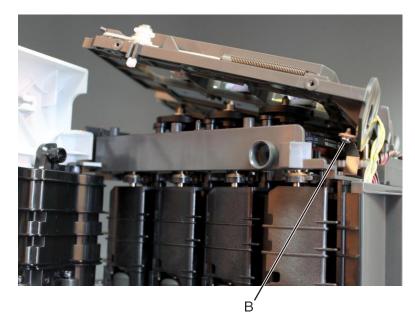
### Mailbox belt removal

- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.
- 2 Remove the mailbox right cover. See <u>"Mailbox right cover removal" on page 676</u>.

- <image>
- **3** Remove the nine screws (A) from the inner right frame.

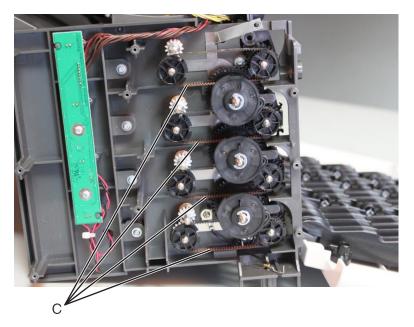
**4** Pull the latch to release, then remove.





**5** Carefully lift the inner right frame, then remove the ground screw (B).

**6** Swing away the inner right frame to access the belt (C).

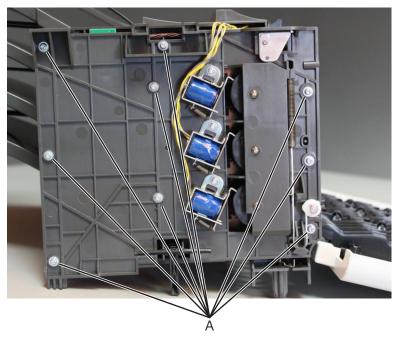


**7** Remove the belt.

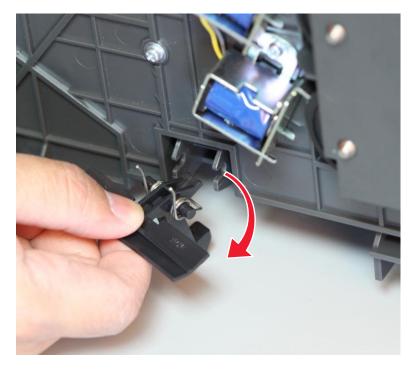
# Mailbox bin LED assembly removal

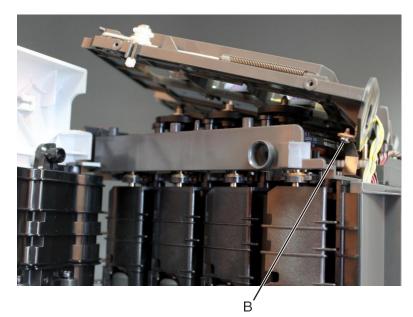
- 1 Remove the mailbox top cover. See <u>"Mailbox top cover removal" on page 673</u>.
- 2 Remove the mailbox right cover. See "Mailbox right cover removal" on page 676.

**3** Remove the nine screws (A).



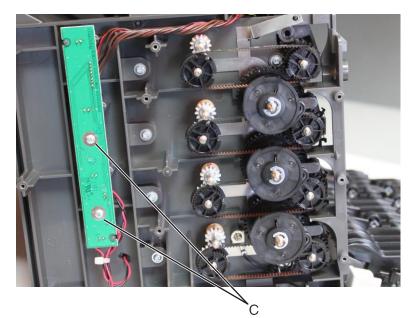
**4** Pull the latch to release, and then remove it.

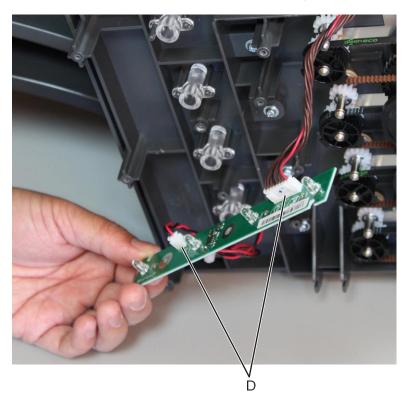




**5** Carefully pull the inner right frame, and then remove the ground screw (B).

- **6** Move away the inner right frame to access the LED assembly behind it.
- 7 Remove the two screws (C) Using a #1 Phillips screwdriver, and then release the LED assembly.

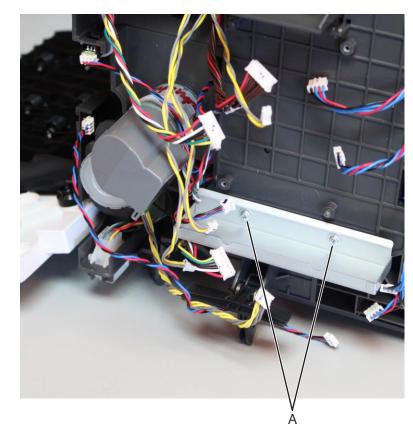




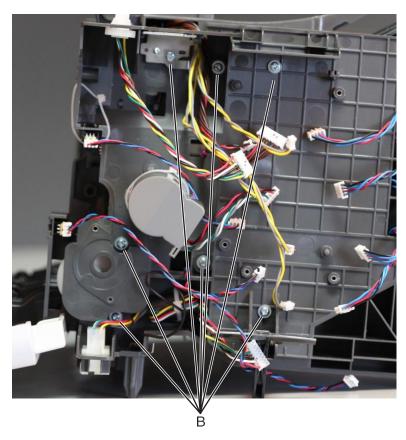
8 Disconnect the two cables (D), and then remove the bin LED assembly.

### Mailbox top diverter removal

- 1 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- 2 Remove the mailbox rear door. See <u>"Mailbox rear door removal" on page 674</u>.
- **3** Remove the mailbox controller board. See <u>"Mailbox controller board removal" on page 692</u>.

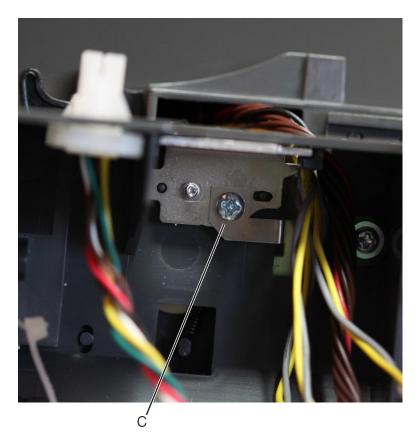


4 Remove the two screws (A), and then remove the shield.

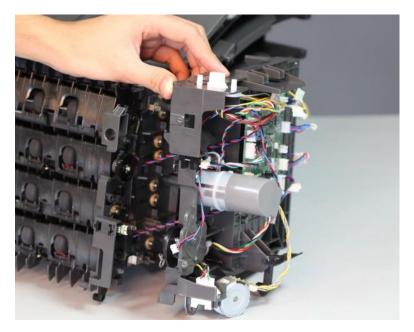


**5** Remove the seven screws (B), and then release the inner left frame.

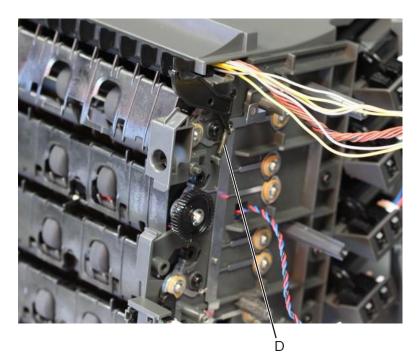
Note: Pay attention to the original position of the grounding plate (C).



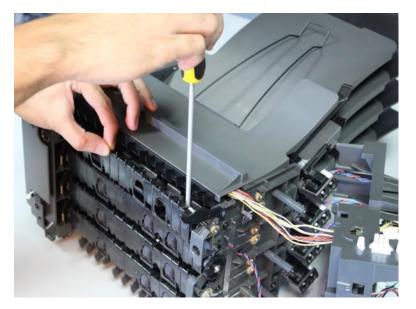
**6** Move away the left inner frame to access the parts underneath it.



7 Unhook the diverter spring (D) to release the diverter.Note: Be careful not to lose the diverter spring.

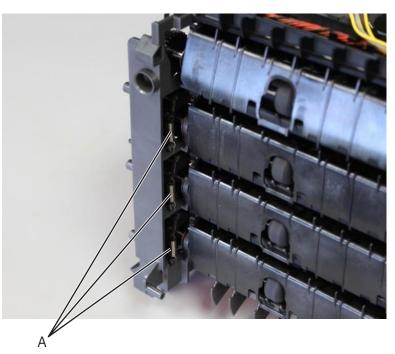


**8** Pry the diverter off its hinge. Dislodge also the other end of the diverter, and then remove the diverter.



#### Mailbox middle diverter removal

- 1 Remove the mailbox rear door. See <u>"Mailbox rear door removal" on page 674</u>.
- **2** Release the spring (A) from the diverter.



**3** Pry the right end of the diverter until it is released.

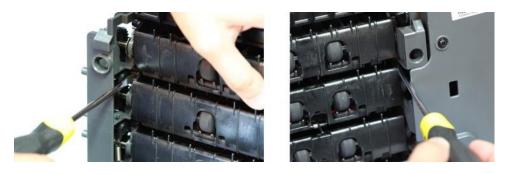


**4** Carefully twist until the left end is also released.



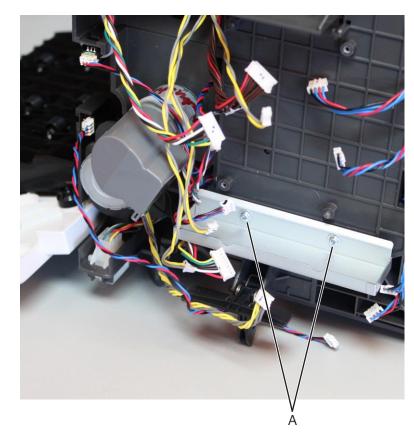
**5** Remove the diverter.

**Installation note:** Use a flat-head screwdriver to push the left and right ends of the diverter in place.

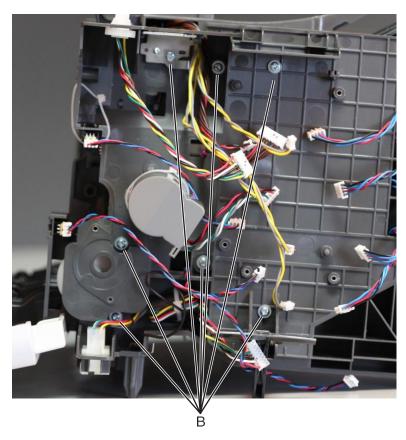


#### Mailbox top diverter spring removal

- 1 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- 2 Remove the mailbox rear door. See <u>"Mailbox rear door removal" on page 674</u>.
- **3** Remove the mailbox controller board. See <u>"Mailbox controller board removal" on page 692</u>.

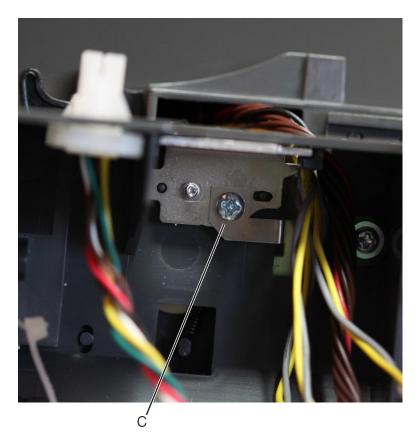


4 Remove the two screws (A), and then remove the shield.

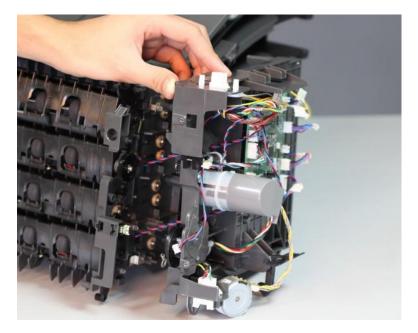


**5** Remove the seven screws (B), and then release the inner left frame.

Note: Pay attention to the original position of the grounding plate (C).



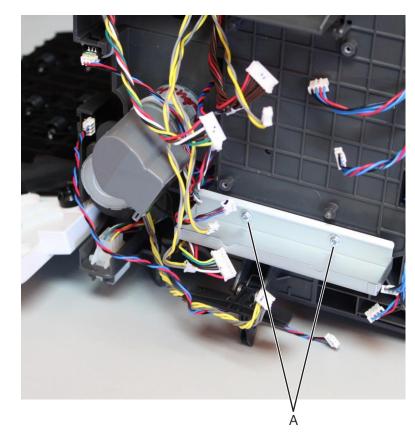
**6** Move away the left inner frame to access the parts underneath it.



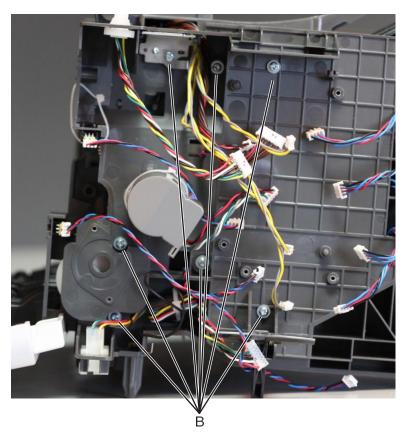
- <image>
- 7 Unhook, and then remove the diverter spring (D).

# Sensor (mailbox pass-through) removal

- 1 Remove the mailbox left cover. See <u>"Mailbox left cover removal" on page 679</u>.
- 2 Remove the mailbox rear door. See <u>"Mailbox rear door removal" on page 674</u>.
- **3** Remove the mailbox controller board. See <u>"Mailbox controller board removal" on page 692</u>.

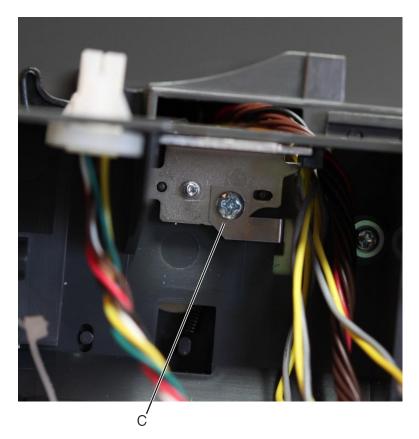


4 Remove the two screws (A), and then remove the shield.

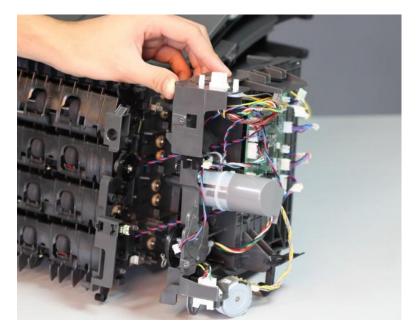


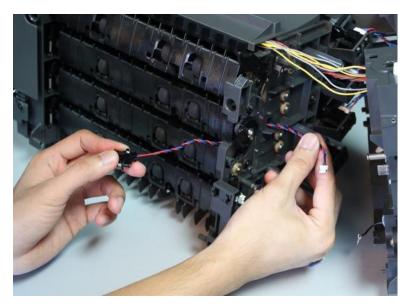
**5** Remove the seven screws (B), and then release the inner left frame.

Note: Pay attention to the original position of the grounding plate (C).



**6** Move away the inner left frame to access the parts underneath it.



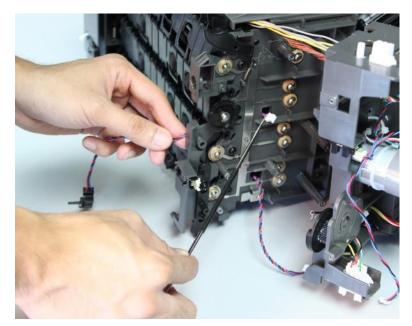


7 Pull the sensor off its slot, and then carefully release the cable from its cable guides.

8 Thread the sensor cable through the hole until it is removed.

Note: Pay attention to the original route of the sensor cable.

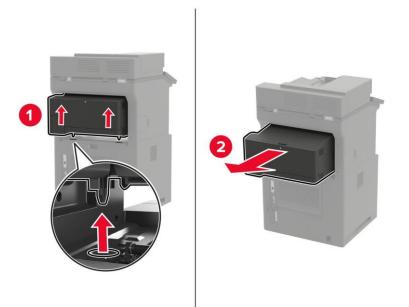
**Installation note:** There will be some difficulty inserting the connector through the hole. Use a spring hook to thread the connector through the hole.



# Optional staple, hole punch finisher removals

# Optional staple, hole punch finisher removal

Lift the optional bin to release, and then remove it.



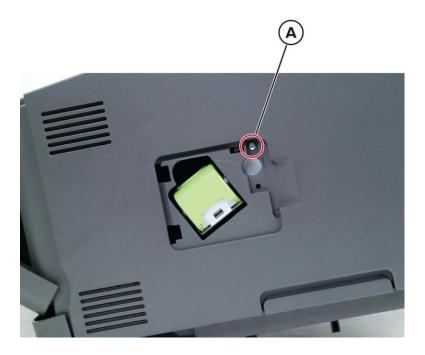
### Left staple cartridge access door removal

- 1 Open the access door.
- **2** Pull, and then remove the door.

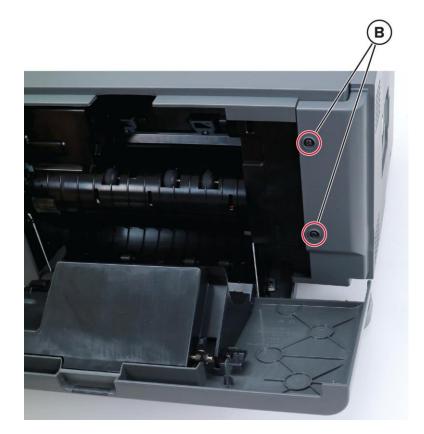


### Staple, hole punch finisher left cover removal

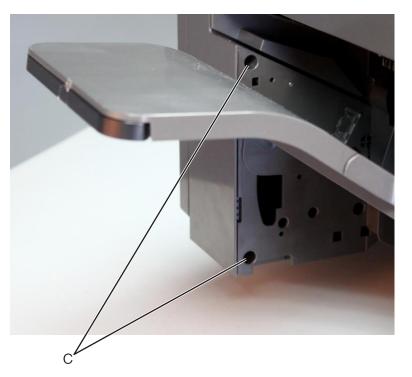
- 1 Remove the left staple cartridge access door. See <u>"Left staple cartridge access door removal" on page</u> <u>724</u>.
- **2** Remove the screw (A).



**3** Open the rear door, and then remove the two screws (B).



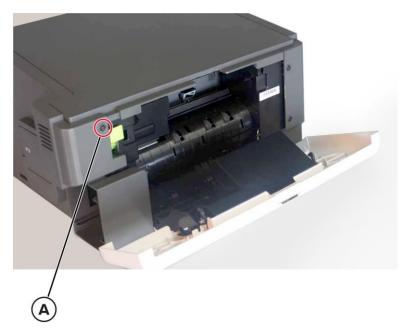
**4** From the front, remove the two screws (C).



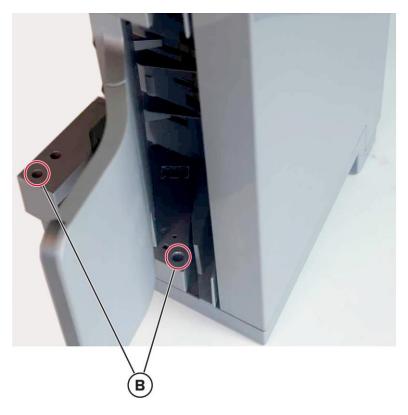
**5** Remove the cover.

# Staple, hole punch finisher right cover removal

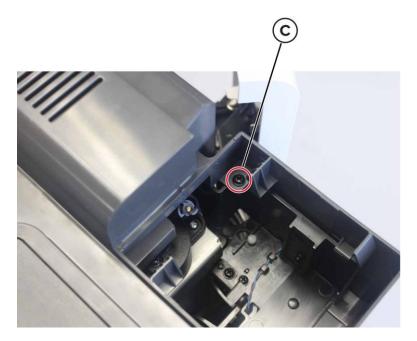
1 Open the rear door, and then remove the screw (A).



2 From the front, remove the two screws (B).



**3** Remove the hole punch box, and then remove the screw (C).



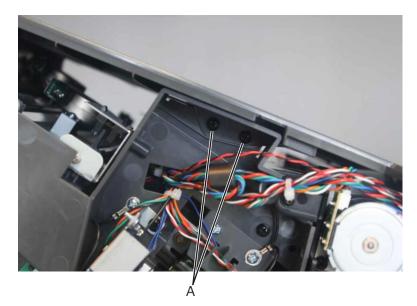
**4** Open door F, and then remove the screw (D).



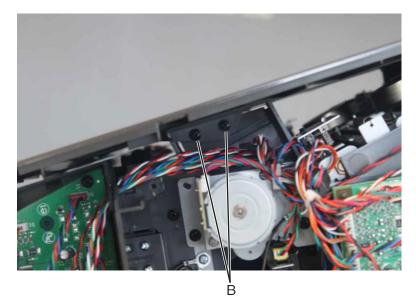
**5** Remove the cover.

### Staple, hole punch finisher top cover removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on</u> page 724.
- 2 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.
- **3** From the right side, remove the two screws (A).



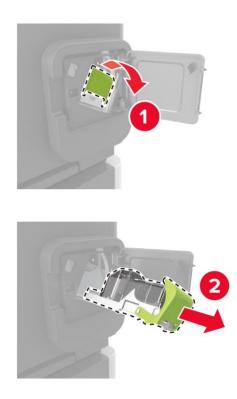
**4** From the left side, remove the two screws (B).



**5** Remove the cover.

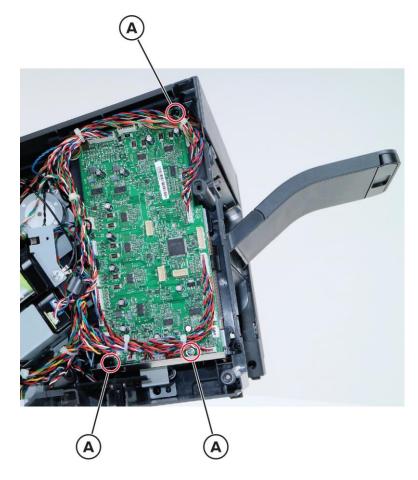
# Staple cartridge holder removal

- 1 Open the staple cartridge access door.
- **2** Remove the cartridge holder.



### Staple, hole punch finisher controller board removal

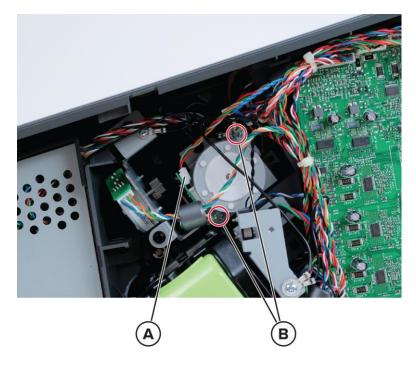
- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- **2** Disconnect all the cables from the controller board, and then remove the three screws (A).



**3** Remove the board.

### Motor (SHPF paddle) removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- **2** Disconnect the cable (A), and then remove the two screws (B).



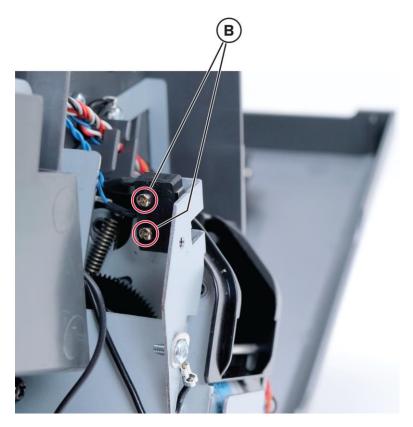
**3** Remove the motor.

### SHPF staple cartridge door close limit switch removal

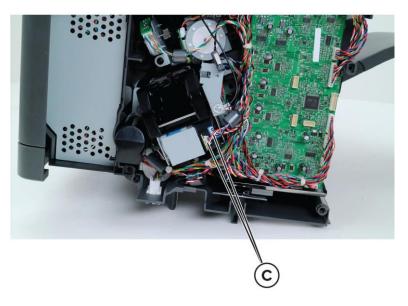
- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- 2 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.

- <image>
- **3** From the right side, disconnect the two cables (A).

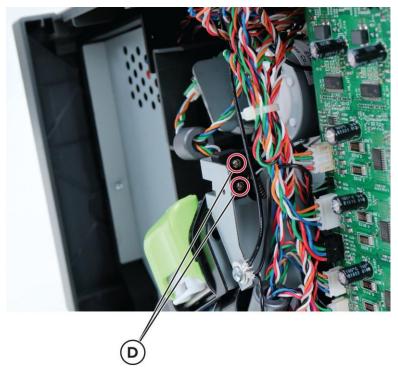
**4** Remove the screws (B), and then release the right limit switch.



**5** From the left side, disconnect the two cables (C)



**6** Remove the two screws (D), and then release the left limit switch.

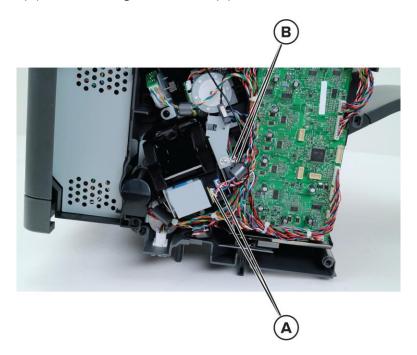


- **7** Disconnect the limit switch cable from the controller board.
- **8** Release, and then remove the limit switch.

Note: Pay attention to the original route of the cables.

### Left staple unit removal

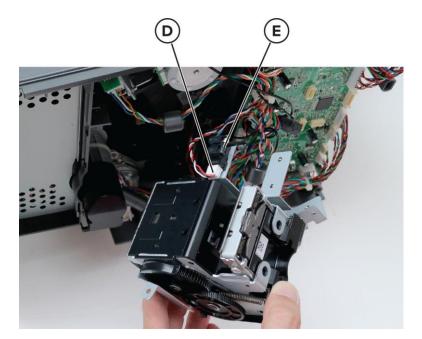
- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- **2** Disconnect the cables (A) and the two ground cables (B).



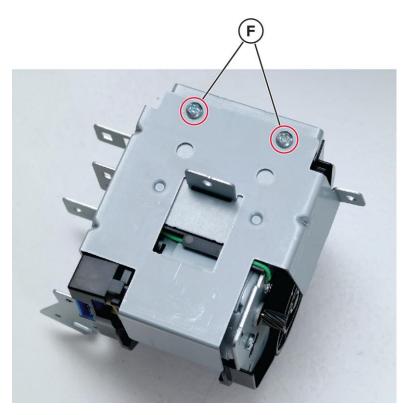
**3** Remove the four screws (C), and then release the bracket.



4 Disconnect the cable connector (D), and then remove the sensor (SHPF staple throat paper present) (E).



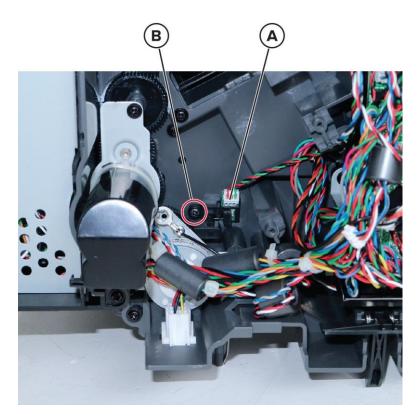
5 Remove the two screws (F).



**6** Remove the staple unit from the bracket.

# Sensor (SHPF diverter plunger) removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- 2 Remove the left staple unit. See <u>"Left staple unit removal" on page 734</u>.
- **3** Disconnect the cable (A), and then remove the screw (B).



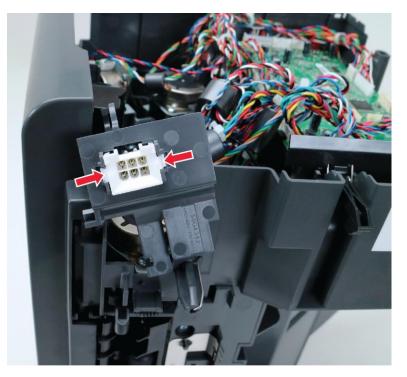
**4** Remove the sensor.

### Staple, hole punch finisher interface cable removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- 2 Remove the left staple unit. See <u>"Left staple unit removal" on page 734</u>.

- **3** Remove the two screws (A), and then release the connector bracket.

**4** Press the latches to release, and then dislodge the connector.

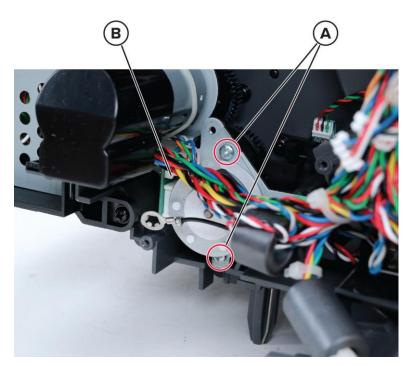


**5** Disconnect the interface cable from the controller board, and then remove it.

#### Motor (SHPF diverter plunger) removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on</u> page 724.
- 2 Remove the left staple unit. See <u>"Left staple unit removal" on page 734</u>.

**3** Remove the two screws (A), and then disconnect the cable (B).

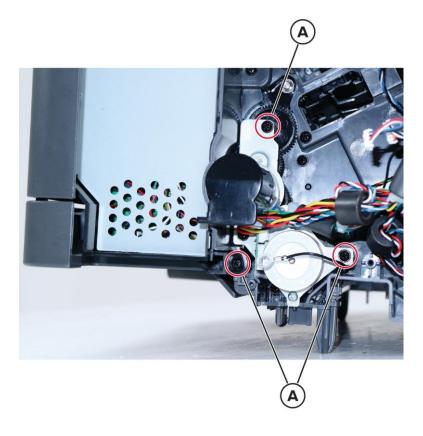


4 Remove the motor.

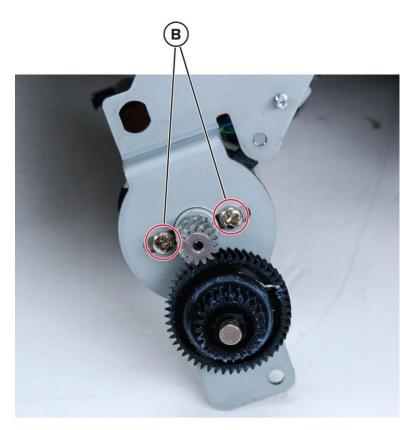
## Motor (SHPF transport) removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on</u> page 724.
- 2 Remove the left staple unit. See <u>"Left staple unit removal" on page 734</u>.

**3** Remove the three screws (A), and then disconnect all the cables from the motor bracket.



**4** Behind the motor bracket, remove the two screws (B).

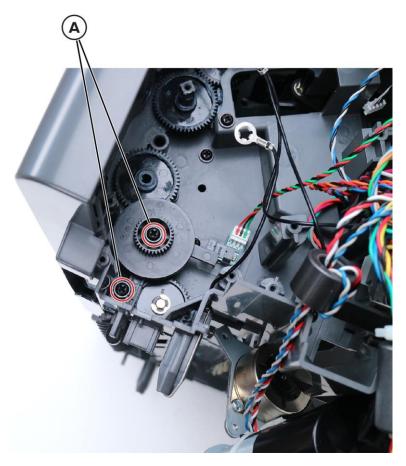


**5** Remove the motor.

### SHPF diverter plunger assembly removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on</u> page 724.
- 2 Remove the staple, hole punch finisher interface cable. See <u>"Staple, hole punch finisher interface cable</u> <u>removal" on page 736</u>.
- 3 Release the motor bracket. See <u>"Motor (SHPF transport) removal" on page 738</u>.

**4** Remove the two screws (A).

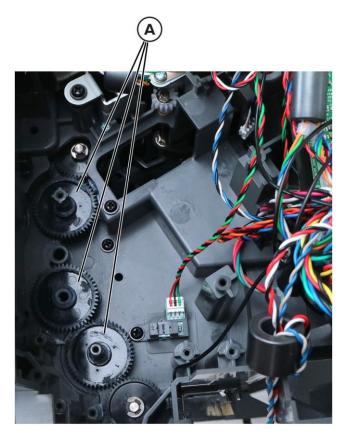


**5** Remove the diverter plunger assembly.

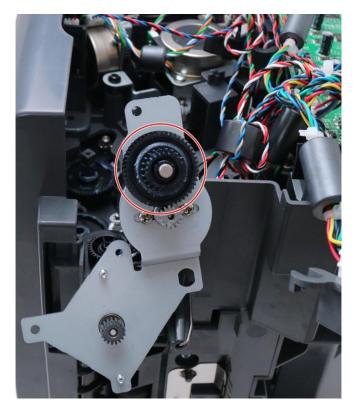
### SHPF drive gear assembly removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on</u> page 724.
- 2 Remove the staple, hole punch finisher interface cable. See <u>"Staple, hole punch finisher interface cable</u> <u>removal" on page 736</u>.
- 3 Release the motor bracket. See <u>"Motor (SHPF transport) removal" on page 738</u>.
- 4 Remove the staple, hole punch finisher diverter plunger assembly. See <u>"SHPF diverter plunger assembly</u> removal" on page 740.

**5** Remove the three gears (A).

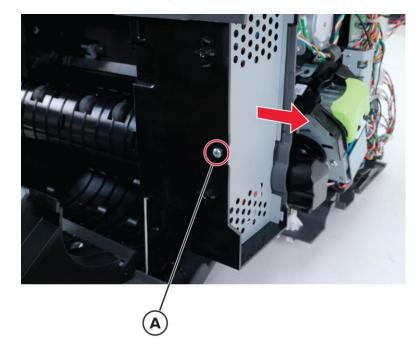


**6** Remove the gear behind the motor bracket.

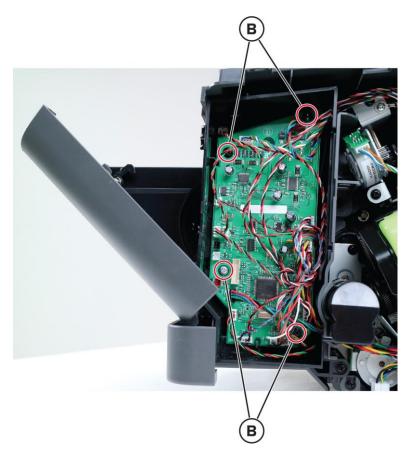


# Sensor (SHPF rear door interlock) removal

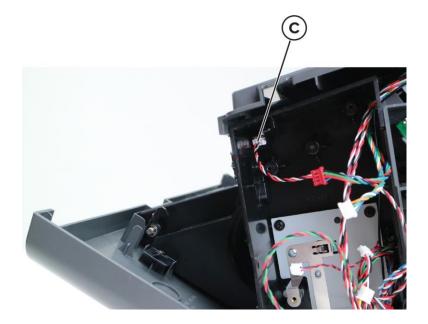
- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- **2** Open the rear door.
- **3** Remove the screw (A), and then remove the plate.



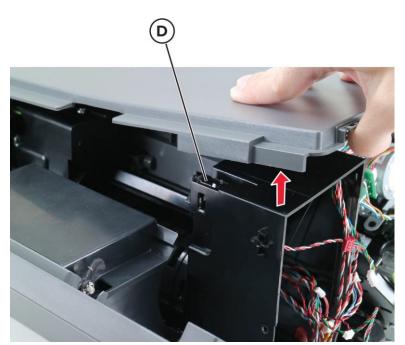
**4** Disconnect all the HPU controller board cables, remove the four screws (B), and then remove the board.



**5** Disconnect the sensor cable (C).



**6** Slightly lift the top cover, and then remove the sensor retainer (D).



7 Remove the sensor.

### Punch drive gears removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- 2 Remove the HPU controller board. See <u>"Sensor (SHPF rear door interlock) removal" on page 743</u>.

- <image>
- **3** Remove the three screws (A), and then remove the plate.

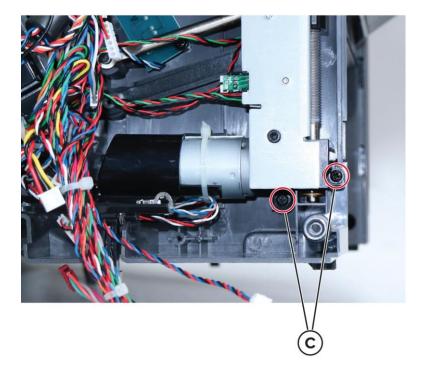
- <image>
- 4 Remove the two E-clips (B), and then remove the gears.

### Staple, hole punch finisher elevator drive removal

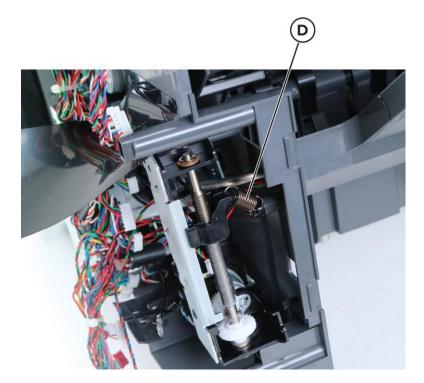
- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- 2 Remove the controller board. See <u>"Staple, hole punch finisher controller board removal" on page 730</u>.

- **3** Disconnect the two cables (A), and then remove the five screws (B).

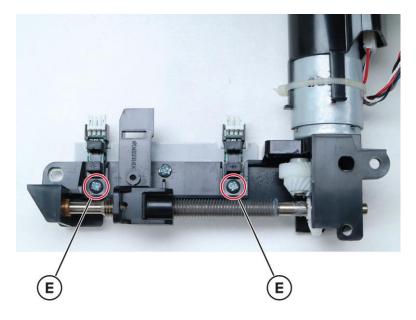
**4** Remove the two screws (C).



**5** Release the spring (D), and then remove the elevator drive.

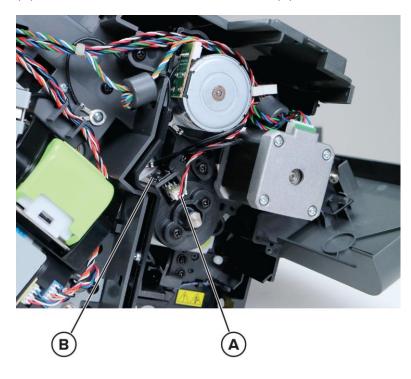


**6** Remove the two screws (E), and then remove the two sensors from the elevator drive.



# Sensor (hole punch) removal

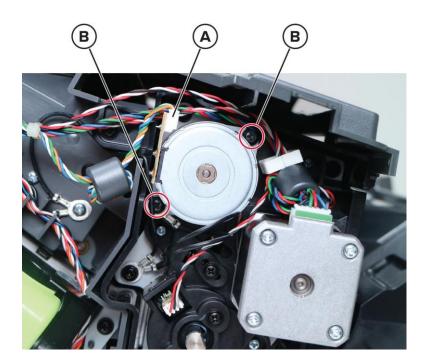
- 1 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher controller board</u> removal" on page 730.
- **2** Disconnect the cable (A), and then remove the sensor retainer (B).



**3** Remove the sensor.

## Motor (HPU carriage) removal

- 1 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.
- **2** Disconnect the cable (A), and then remove the two screws (B).



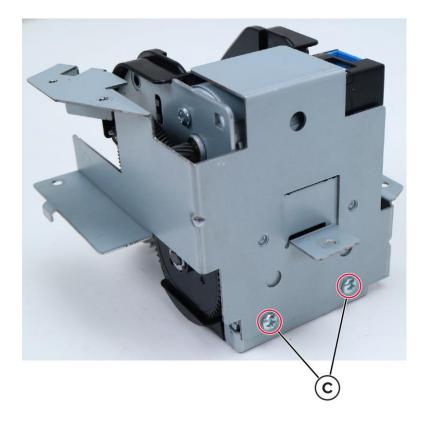
**3** Remove the motor.

### **Right staple unit removal**

- 1 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.
- 2 Release the right stapler door close limit switch. See <u>"SHPF staple cartridge door close limit switch</u> removal" on page 731.

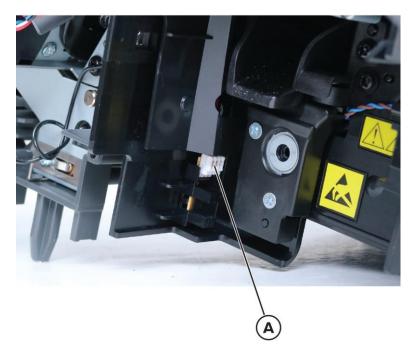
- <image>
- **3** Disconnect the two cables (A), remove the four screws (B), and then remove the bracket.

4 Remove the two screws (C), and then remove the staple unit.



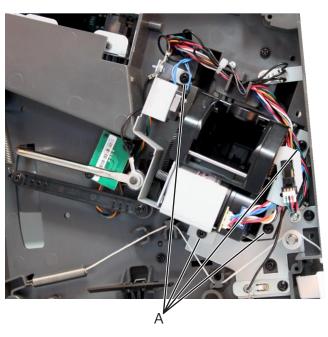
# Sensor (hole punch box present) removal

- 1 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.
- **2** Disconnect the sensor cable (A), and then remove the sensor.

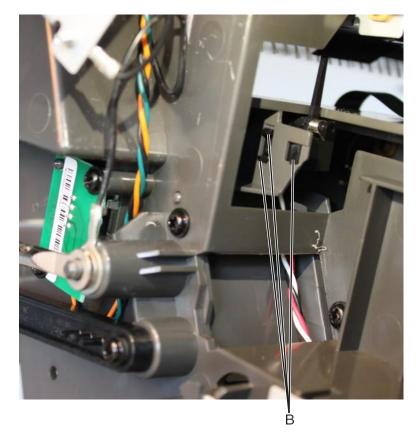


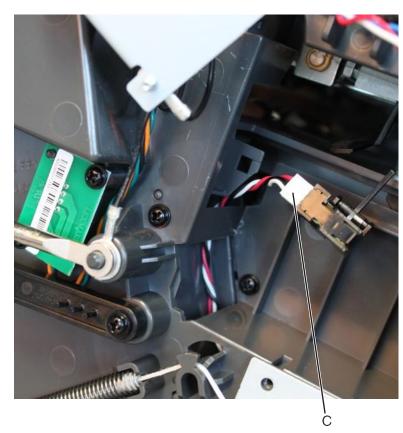
## Sensor (SHPF staple throat paper present) removal

- 1 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.
- **2** Remove the four screws (A), and then release the bracket.



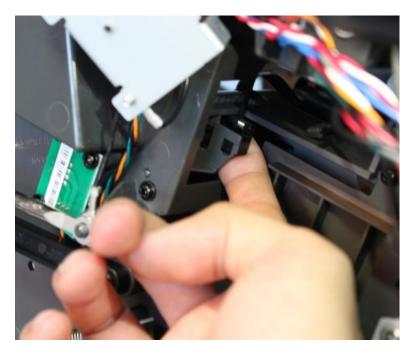
**3** Release the sensor latches (B), and then release the sensor from its bracket.





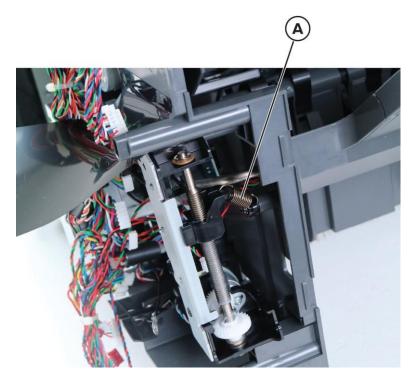
**4** Disconnect the cable (C), and then remove the sensor.

**Installation note:** Make sure that the sensor is properly installed. Push the sensor to its bracket until it is securely latched onto the frame.

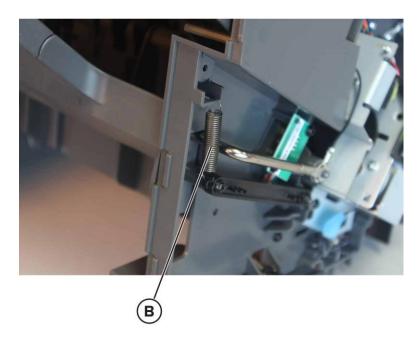


### SHPF bin link tension spring removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on</u> page 724.
- 2 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.
- **3** Unhook the tension spring (A) from the left side, and then remove it.

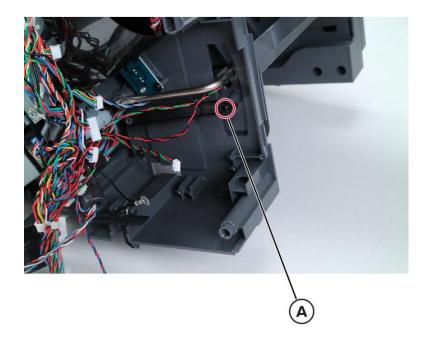


4 Unhook the tension spring (B) from the right side, and then remove it.

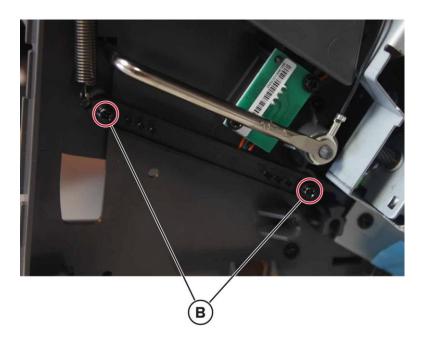


### SHPF bin link assembly removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on</u> page 724.
- 2 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.
- **3** Remove the staple, hole punch finisher controller board. See <u>"Staple, hole punch finisher controller board</u> removal" on page 730.
- 4 Remove the staple, hole punch finisher elevator drive. See <u>"Staple, hole punch finisher elevator drive</u> removal" on page 747.
- **5** Remove the screw (A), and then remove the left tray link.

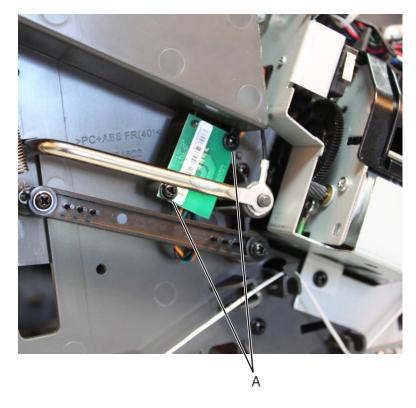


6 Remove the two screws (B), and then remove the right tray link.

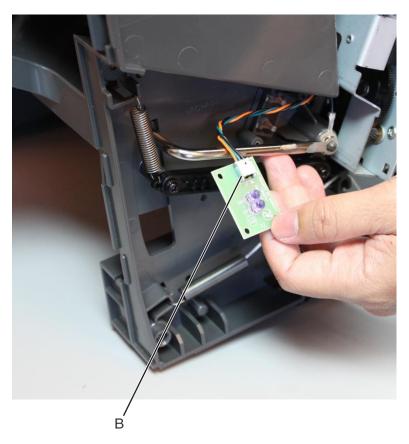


## Sensor (SHPF bin full send) removal

- 1 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.
- **2** Remove the two screws (A), and then release the sensor.



**3** Disconnect the cable (B), and remove the sensor.

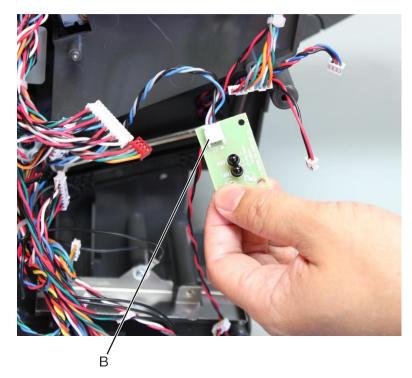


### Sensor (SHPF bin full receive) removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on page 724</u>.
- 2 Remove the staple, hole punch finisher controller board. See <u>"Staple, hole punch finisher controller board</u> removal" on page 730.

- <image>
- **3** Remove the two screws (A), and then release the sensor.

**4** Disconnect the cable (B), and then remove the sensor.



## Staple, hole punch finisher latch removal

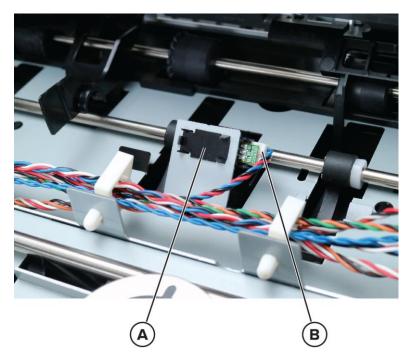
- 1 Remove the staple, hole punch finisher left cover or right cover. See <u>"Staple, hole punch finisher left cover</u> removal" on page 724 or <u>"Staple, hole punch finisher right cover removal" on page 726</u>.
- **2** Pull the latch off the finisher.

**Note:** The latch on the right side can be removed using the same method shown.



# Sensor (SHPF paddle) removal

- 1 Remove the staple, hole punch finisher left cover. See <u>"Staple, hole punch finisher left cover removal" on</u> page 724.
- 2 Remove the staple, hole punch finisher right cover. See <u>"Staple, hole punch finisher right cover removal"</u> on page 726.
- **3** Remove the staple, hole punch finisher top cover. See <u>"Staple, hole punch finisher top cover removal" on page 728</u>.



**4** Remove the sensor retainer (A), and then disconnect the cable (B).

**5** Remove the sensor.

Descriptions in page 763 to 764 are not applicable to this model. Therefore it was deleted.

# **Component locations**

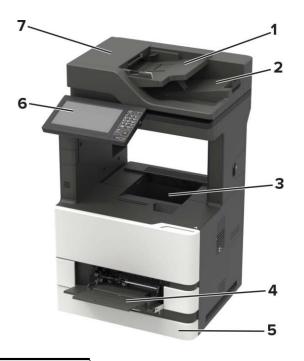
# **Printer configurations**

**CAUTION—TIPPING HAZARD:** Installing one or more options on your printer or MFP may require a caster base, furniture, or other feature to prevent instability causing possible injury.

**CAUTION—TIPPING HAZARD:** To reduce the risk of equipment instability, load each tray separately. Keep all other trays closed until needed.

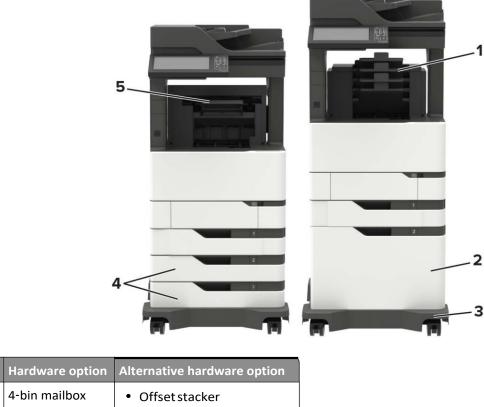
You can configure your printer by adding optional 550-, or 2100-sheet trays.

### **Basic model**



1	Automatic document feeder (ADF) tray
2	ADF bin
3	Standard bin
4	Multipurpose feeder
5	Standard 550-sheet tray
6	Control panel
7	ADF

## **Configured model**



	naraware option	Alternative naraware option	
1	4-bin mailbox	Offset stacker	
		<ul> <li>Staple finisher</li> </ul>	
		• Staple, hole punch finisher	
2	2100-sheet tray	550-sheet trays	
3	Caster base	Caster base	
4	550-sheet trays	2100-sheet tray	
5	Staple finisher	er • 4-bin mailbox	
		Staple, hole punch finisher	
l		<ul> <li>Offset stacker</li> </ul>	

When using optional trays:

- Always use a caster base when the printer is configured with a 2100-sheet tray.
- The 2100-sheet tray must always be at the bottom of a configuration.
- If the 2100-sheet tray is installed, then you cannot use an optional 550-sheet tray.
- A maximum of two optional trays may be configured with the printer.
- The printer supports only one finisher at a time.

# **Attaching cables**

4

**CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, do not set up this product or make any electrical or cabling connections, such as the power cord, fax feature, or telephone, during a lightning storm.

**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.

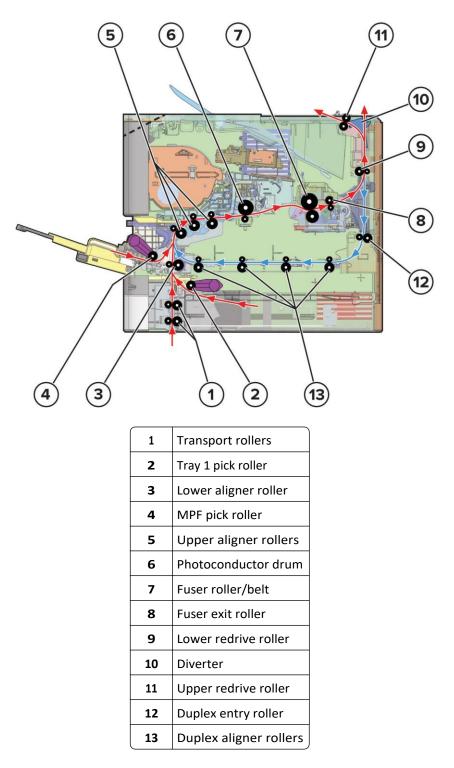
**CAUTION—POTENTIAL INJURY:** To reduce the risk of fire, use only a 26 AWG or larger telecommunications (RJ-11) cord when connecting this product to the public switched telephone network. For users in Australia, the cord must be approved by the Australian Communications and Media Authority.

**Warning—Potential Damage:** To avoid loss of data or printer malfunction, do not touch the USB cable, any wireless network adapter, or the printer in the areas shown while actively printing.

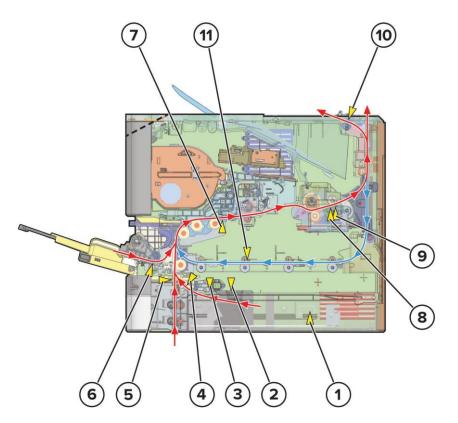


	Use the	То
1	Power cord socket	Connect the printer to a properly grounded electrical outlet.
2	USB printer port	Connect the printer to a computer.
3	Ethernet port	Connect the printer to a network.
4	USB port	Attach a keyboard or any compatible option.
		Note: This port is available only in some printer models.
5	LINE port	Connect the printer to an active telephone line through a standard wall jack (RJ-11), DSL filter, or VoIP adapter, or any other adapter that allows you to access the telephone line to send and receive faxes.

# **Printer roller locations**



# **Printer sensor locations**

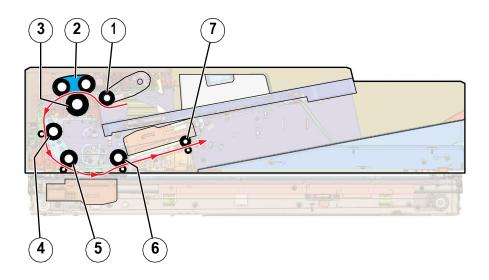


1	Sensor (paper size)	
2	Sensor (tray 1 paper present)	
3	Sensor (pick position)	
4	Sensor (pick)	
5	Sensor (tray 1 pass-through)	
6	Sensor (MPF paper present)	
7	Sensor (input)	
8	Sensor (fuser exit)	
9	9 Sensor (narrow media)	
	Note: This part is found in hot roll fusers only.	
10	Sensor (exit)	
11	Sensor (duplex path)	

Component locations **769** 

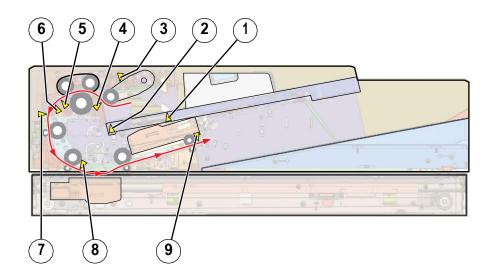
# **ADFlocations**

### **ADF** rollers



1	ADF pick roller
2	ADF feed belt
3	ADF separator roller
4	Deskew roller
5	1st scan roller
6	2nd scan roller
7	Exit roller

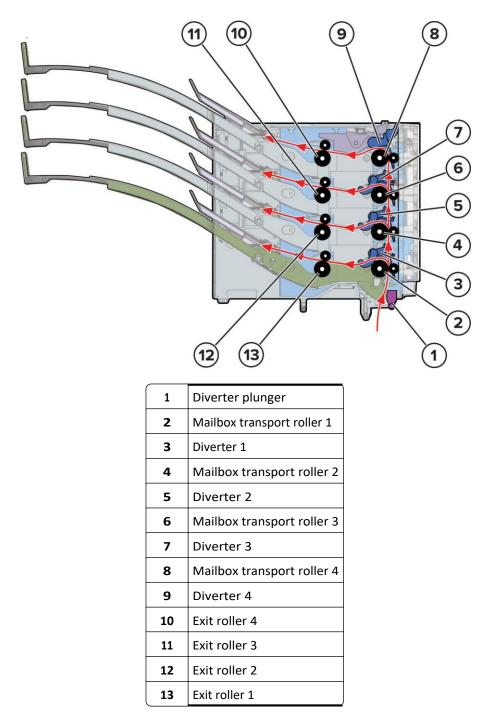
### **ADF** sensors



1	Sensor (ADF paper present 1)	
2	Sensor (ADF paper present 2)	
3	Sensor (ADF pick roller index)	
	<b>Note:</b> The sensor (ADF pick roller index) consists of two sensors to detect the high and low positions of the pick roller.	
4	Sensor (ADF gap detect)	
5	Sensor (ADF pick)	
6	Sensor (ADF multifeed)	
7	Sensor (ADF deskew)	
8	Sensor (ADF 1st scan)	
9	Sensor (ADF exit)	

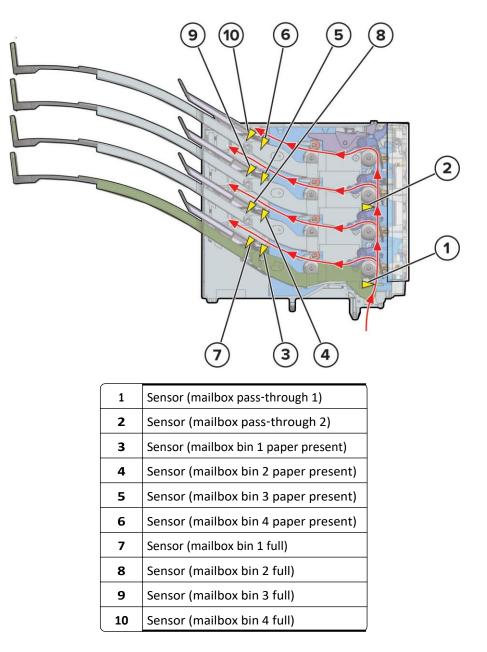
# **Mailbox locations**

### **Mailbox rollers**



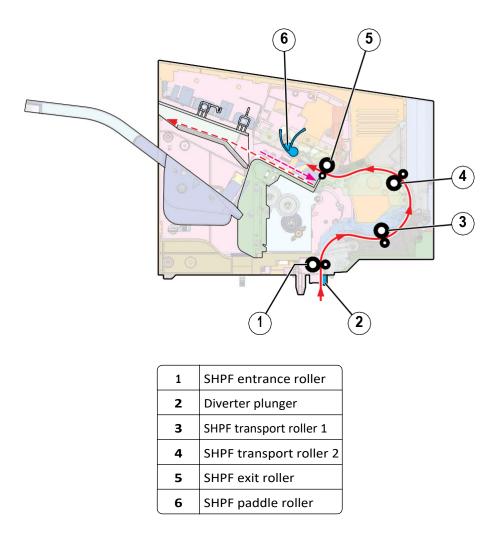
Component locations 772

#### **Mailbox sensors**

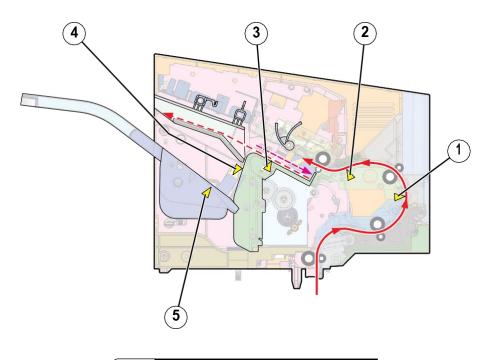


# Staple, hole punch finisher locations

## **SHPF rollers**



### **SHPF** sensors



1	Sensor (SHPF transport 1)
2	Sensor (SHPF transport 2)
3	Sensor (SHPF tamper paper present)
4	Sensor (SHPF bin full)
5	Sensor (SHPF bin paper present)

### **Printer controller board connectors**

Connector	Connects to	Pin no.	Signal
81		1	Toner Port Signal
	cartridge shutter)	2	Smart Chip Data
		3	GND
		4	+3.3V Supply Voltage
		5	Toner Port LED
		6	Smart Chip Clock
		7	not used
		8	GND
		9	25V Interlock to IU
		10	25V Interlock - RETURN

Component locations

Connector	Connects to	Pin no.	Signal
JCTLS1	CTLS, Imaging unit	1	CTLS_Signal
		2	Signal Guard
		3	not used
J27	Duplex fan, Sensor (toner density),	1	not used
	Sensor (input), Motor (duplex), Sensor (duplex interlock), Sensor (duplex path)	2	Duplex fan—Fan Encoder Feedback
	(	3	Sensor (toner density)—Ambient Temp Signal
		4	Duplex fan—GND
		5	Sensor (toner density)—TDS PWM Signal
		6	Duplex fan—Fan Supply Voltage
		7	Sensor (toner density)—TDS Feedback Signal
		8	Sensor (input)—Sensor Feedback Signal
		9	Sensor (toner density)—GND
		10	Sensor (input)—GND
J27	Duplex fan, Sensor (toner density),	11	Sensor (toner density)—TDS 5V Supply
	Sensor (input), Motor (duplex), Sensor (duplex path)	12	Sensor (input)—Sensor Supply Voltage
		13	Motor (duplex) — Motor Encoder LED supply V
		14	Sensor (duplex interlock)—Sensor Feedback Signal
		15	Motor (duplex)—Motor Encoder Signal Feedback
		16	Sensor (duplex interlock)—GND
		17	Motor (duplex)—GND
		18	Sensor (duplex interlock)—Sensor Supply Voltage
		19	Motor (duplex)—Motor -V supply
		20	Sensor (duplex path)—Sensor Feedback Signal
		21	Motor (duplex)—Motor +V supply
		22	Sensor (duplex path)—GND
		23	not used
		24	Sensor (duplex path) — Sensor Supply Voltage

Connector	Connects to	Pin no.	Signal
J60	Fuser, Sensor (fuser exit), Sensor	1	Paper Sensor - Narrow Media
	(narrow media)	2	GND
		3	Main Thermistor Signal
		4	Belt Fuser ID Signal
		5	Edge Thermistor Signal
		6	+5V Supply Voltage
		7	Back-up Roll Thermistor Signal
		8	Paper Sensor - Fuser Exit
		9	+3.3V Supply Voltage
		10	Smart Chip Clock Signal
		11	Smart Chip Data
		12	Fuser Present Signal
		13	GND
		14	not used
J66	Optional bin, Sensor (toner smart chip),	1	Motor (redrive)—Motor Encoder LED supply V
	Sensor (toner low), Motor (redrive), Sensor (rear door interlock), Sensor	2	Optional bin—+25V Supply Voltage
	(standard bin full)	3	Motor (redrive)—Motor Encoder Signal Feedback
		4	Optional bin—GND
		5	Motor (redrive)—GND
		6	Optional bin—
		7	Motor (redrive)—Motor -V supply
		8	Optional bin—Option Comm. Receive Signal
		9	Motor (redrive)—Motor +V supply
		10	Optional bin—Option Comm. Transmit Signal

Connector	Connects to	Pin no.	Signal
J66	Optional bin, Sensor (toner smart chip), Sensor (toner low), Motor (redrive),	11	Sensor (rear door interlock)—Sensor Feedback Signal
	Sensor (rear door interlock), Sensor (standard bin full)	12	Optional bin—+5V Supply Voltage
		13	Sensor (rear door interlock)—GND
		14	Sensor (standard bin full)—Sensor Feedback Signal
		15	Sensor (rear door interlock)—Sensor Supply Voltage
		16	Sensor (standard bin full)—GND
		17	Sensor (toner smart chip)—Smart Chip Data
		18	Sensor (standard bin full)—Sensor Supply Voltage
		19	Sensor (toner smart chip)—+3.3V Supply Voltage
		20	Sensor (toner low)—Sensor Assembly Feedback
		21	Sensor (toner smart chip)—Smart Chip Clock Signal
		22	Sensor (toner low)—GND
		23	Sensor (toner smart chip)—GND
		24	Sensor (toner low)—+5V Supply Voltage
		25	Sensor (toner smart chip)—+25V Interlock "Return"
		26	
J71	Motor (fuser), Motor (toner cartridge),	1	Motor (fuser)—V Winding Hall Feedback
	Motor (main), Motor (MPF), Main fan	2	Motor (fuser)—U Winding Hall Feedback
		3	Motor (fuser)—FG Signal Feedback
		4	Motor (fuser)—W Winding Hall Feedback
		5	Motor (fuser)—+5V Supply Voltage
		6	Motor (fuser)—GND
		7	Motor (fuser)—U Winding Power
		8	Motor (toner cartridge)—Motor Encoder LED supply V
		9	Motor (fuser)—V Winding Power
		10	Motor (toner cartridge)—Motor Encoder Signal Feedback

Connector	Connects to	Pin no.	Signal
J71	Motor (fuser), Motor (toner cartridge),	11	Motor (fuser)—W Winding Power
	Motor (main), Motor (MPF), Main fan	12	Motor (toner cartridge)—GND
		13	not used
		14	Motor (toner cartridge)—Motor -V supply
		15	Motor (toner cartridge)—U Winding Hall Feedback
		16	Motor (toner cartridge)—Motor +V supply
		17	Motor (toner cartridge)—V Winding Hall Feedback
		18	Motor (MPF)—Motor Encoder LED supply V
		19	Motor (toner cartridge)—W Winding Hall Feedback
		20	Motor (MPF)—Motor Encoder Signal Feedback
J71	Motor (fuser), Motor (toner cartridge),	21	Motor (toner cartridge)—FG Signal Feedback
	Motor (main), Motor (MPF), Main fan	22	Motor (MPF)—GND
		23	Motor (toner cartridge)—GND
		24	Motor (MPF)—Motor -V supply
		25	Motor (toner cartridge)—+5V Supply Voltage
		26	Motor (MPF)—Motor +V supply
		27	Motor (toner cartridge)—U Winding Power
		28	Main fan—Fan Supply Voltage
		29	Motor (toner cartridge)—V Winding Power
		30	Main fan—GND
		31	Motor (toner cartridge)—W Winding Power
		32	Main fan—Fan Encoder Feedback

Connector	Connects to	Pin no.	Signal
J15		1	Supply Voltage (+25V)
	door interlock), Speaker	2	Supply Voltage
		3	HVPS_SRVO
		4	GND
		5	Transfer Enable
		6	Encoder Feedback Signal
		7	Transfer PWM
		8	Signal Feedback
		9	Charge Roll PWM
		10	GND
		11	GND
		12	LED Supply Voltage
		13	Developer PWM
		14	Speaker +
		15	Toner Adder Roll PWM
		16	Speaker -
		17	HVPS Vendor ID
		18	not used
J62	LVPS	1	+25V Enable Signal
		2	Heat "ON" Signal
		3	Zero Crossing Signal
		4	Relay "ON" signal
		5	GND
		6	+25V Supply
		7	GND
		8	+25V Supply
		9	GND
		10	+25V Supply
		11	GND
		12	+6.5V Supply
		13	GND
		14	+6.5V Supply
		15	GND
		16	+6.5V Supply

**Component locations** 

Connector	Connects to	Pin no.	Signal
J73	Motor (pick), Sensor (paper present),	1	Optional tray—+25V Supply Voltage
	Sensor (pick position), Sensor (pick), Sensor (tray 1 pass-through), Sensor	2	Motor (pick)—Motor Encoder LED supply V
	(MPF paper present), Optional tray,	3	Optional tray—GND
	Sensor (paper size)	4	Motor (pick)—Motor Encoder Signal Feedback
		5	Optional tray—Option Comm. Receive Signal
		6	Motor (pick)—GND
		7	Optional tray—GND
		8	Motor (pick)—Motor -V supply
		9	Optional tray—Option Comm. Transmit Signal
-		10	Motor (pick)—Motor +V supply
J73	Motor (pick), Sensor (paper present),	11	Optional tray—+5V Supply Voltage
	Sensor (pick position), Sensor (pick), Sensor (tray 1 pass-through), Sensor (MPF paper present), Optional tray,	12	Sensor (pick position)—Sensor Feedback Signal
	Sensor (paper size)	13	Sensor (paper size)—Sensor Feedback Signal - 0
		14	Sensor (pick position)—GND
		15	Sensor (paper size)—GND
		16	Sensor (pick position)—Sensor Supply Voltage
		17	Sensor (paper size)—Sensor Feedback Signal - 1
		18	Sensor (paper present)—Sensor Feedback Signal
		19	Sensor (paper size)—Sensor Feedback Signal - 2
		20	Sensor (paper present)—GND

Connector	Connects to	Pin no.	Signal
J73	Motor (pick), Sensor (paper present), Sensor (pick position), Sensor (pick),	21	Sensor (paper size)—Sensor Feedback Signal - 3
	Sensor (tray 1 pass-through), Sensor (MPF paper present), Optional tray, Sensor (paper size)	22	Sensor (paper present)—Sensor Supply Voltage
		23	Sensor (pick)—Sensor Feedback Signal
		24	Sensor (MPF paper present)—Sensor Feedback Signal
		25	Sensor (pick)—GND
		26	Sensor (MPF paper present)—GND
		27	Sensor (pick)—Sensor Supply Voltage
		28	Sensor (MPF paper present)—Sensor Supply Voltage
		29	Sensor (tray 1 pass-through)—Sensor Feedback Signal
		30	not used
		31	Sensor (tray 1 pass-through)—GND
		32	not used
		33	Sensor (tray 1 pass-through)—Sensor Supply Voltage
		34	not used
J19	Printhead	1	Mirror Motor Clock
		2	Mirror Motor LOCK Signal
		3	Mirror Motor START Signal
		4	GND
		5	+25V Supply Voltage
J6	Printhead FFC		not measurable
JISP1	ISP cable		not measurable
J18	4.3-inch Control panel FFC		not measurable
J1	2.4-inch Control panel FFC		not measurable

# ADF controller board connectors

Connector	Connects to	Pin no.	Signal
JADF2	HDMI B (black) scanner	1	TI_DBG_TXD
		2	GND
		3	MDC_GPIO1
		4	TI_DBG_RXD
		5	GND
		6	SCAN_FB_SNSR
		7	TI_UART_TXD
		8	GND
		9	MDC_GPIO3
		10	TI_UART_RXD
JADF2	HDMI B (black) scanner	11	GND
		12	TESTER_5V_CTL
		13	SCAN_PP_SNSR
		14	ADF_AFE_SH
		15	ADF_TOP
		16	FB_TOP
		17	GND
		18	TESTER_25V_CTL
		19	MDC_RESET_R
JADF1	HDMI A (gray) scanner	1	ADF_RXIN0-
		2	GND
		3	ADF_RXIN0+
		4	ADF_RXIN1-
		5	GND
		6	ADF_RXIN1+
		7	ADF_RXIN2-
		8	GND
		9	ADF_RXIN2+
		10	ADF_RX_CLK-

Connector	Connects to	Pin no.	Signal
JADF1	HDMI A (gray) scanner	11	GND
		12	ADF_RX_CLK+
		13	ADF_SEN
		14	ADF_MCLK-
		15	ADF_SCLK
		16	ADF_SDIO
		17	GND
		18	ADF_DAC_SEN
		19	ADF_MCLK+
JCCDM1	ADF CCDM	1	GND
		2	AFE_RESET
		3	5V
		4	SDIO
		5	5V
		6	GND
		7	SEN
		8	5V
		9	SCLK
		10	GND
JCCDM1	ADF CCDM	11	TX_OUT0-
		12	TX_OUT0+
		13	GND
		14	TX_OUT1-
		15	TX_OUT1+
		16	GND
		17	TX_OUT2-
		18	TX_OUT2+
		19	GND
		20	TX_CLK-

Connector	Connects to	Pin no.	Signal
JCCDM1	ADF CCDM	21	TX_CLK+
		22	GND
		23	IN_CLK-
		24	IN_CLK+
		25	GND
		26	24V
		27	24V
		28	24V
		29	24V
		30	GND
		31	LAMP_CTL
		32	GND
J56	Sensor (ADF closed)	1	5V
		2	COVER_CLOSING
		3	GND
JPATH1	Sensor (ADF lift plate home), Sensor	1	ELEV_HOME
	(ADF media exit), Sensor (ADF top door interlock), Sensor (ADF bottom door	2	GND
	interlock)	3	5V
		4	TOP_COVER
		5	GND
		6	5V_TOP_COVER
		7	EXIT
		8	GND
		9	5V_EXIT
		10	BD_SW
		11	GND
		12	5V_BD_SW
JTRAY1	Paper present LED, Output bin LED	1	5V
		2	CAVE_PWM
		3	5V
		4	INDICATOR_PWM

Connector	Connects to	Pin no.	Signal
JPATH2	Sensor (ADF 1st scan), Sensor (ADF	1	5V
	pick)	2	INTERVAL
		3	GND
		4	5V
		5	FIRST_SCAN
		6	GND
JPPS1	Sensor (ADF paper present 1), Sensor	1	PP1
	(ADF paper present 2)	2	GND
		3	5V
		4	PP2
		5	5V
		6	GND
JCSH1	Sensor (ADF calibration)	1	SIGNAL
		2	GND
		3	5V
JMFRC1	Sensor (ADF multifeed receiver)	1	5V
		2	MF_RCV_OUT
		3	MF_PRESENT_N
		4	GND
		5	NC
JHINGE1	Sensor (ADF pick roller index), Sensor	1	NC
	(ADF gap detect), Sensor (ADF deskew)	2	NC
		3	5V
		4	ELEVATOR_LOW
		5	ELEVATOR_HIGH
		6	GND
		7	GND
		8	5V_DESKEW
		9	DESKEW
		10	GND
		11	GND
		12	GAP
		13	5V_GAP

Connector	Connects to	Pin no.	Signal
JMFDR1	Sensor (ADF multifeed transmitter)	1	24V
		2	5V
		3	MF_PWM
		4	MF_ENABLE
		5	GND
JPIC1	Motor (ADF pick/feed)	1	PICK_ECHX
		2	GND
		3	3.3V
		4	V_PICK_OUT1
		5	V_PICK_OUT2
JDSKW1	Motor (ADF deskew)	1	PICK_ECHX
		2	PICK_ECHY
		3	GND
		4	3.3V
		5	V_PICK_OUT1
		6	V_PICK_OUT2
JELV1	Motor (ADF tray lift)	1	ENC_LED
		2	ELV_MOT_ENC
		3	GND
		4	ELV_MOT
		5	ELV_MOT_+
JFBHM1	Sensor (FB CCD home)	1	НОМЕ
		2	GND
		3	5V
JFBMOT1	Motor (flatbed scanner)	1	PICK_ECHX
		2	PICK_ECHY
		3	GMD
		4	3.3V
		5	V_PICK_OUT1
		6	V_PICK_OUT2

Connector	Connects to	Pin no.	Signal
JSPWR1	Scanner power (from controller board)	1	25V_ADF_A
		2	25V_ADF_A
		3	GND
		4	GND
		5	5V_SCAN
		6	5V_SCAN
		7	GND
		8	5V_SLEEP
		9	GND
		10	GND
		11	25V_ADF_B
		12	25V_ADF_B
JXPORT1	Motor (ADF transport)	1	BLDC_HALL_0
		2	BLDC_HALL_1
		3	BLDC_HALL_2
		4	BLDC_FG
		5	GND
		6	5V_SW
		7	V_C2_0
		8	V_C2_1
		9	V_C2_2
JSTEP1	Motor (ADF calibration)	1	STP_A-
		2	STP_A+
		3	STP_B+
		4	STP_B-

# Maintenance

### **Inspection guide**

The purpose of this inspection guide is to aid you in identifying the intervals, based on page count, at which parts must be inspected (for visible physical damage), cleaned, or replaced.

If any unsafe conditions exist, find out how serious the hazard could be 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 On/Off switch and the power supply
- Damaged, missing, or altered covers, especially in the area of the top cover and the power supply cover
- Possible safety exposure from any non-Sharp attachments
- Printer and options are sitting flat (for example, not sitting on cables or hanging over a ledge)
- Printer is properly set on any options

Use the following table to determine when specified parts should be inspected:

#### Inspection guide table

PART/ITEM	EVERY SERVICE CALL	EVERY 225K	NOTES
Tray insert <ul> <li>Width paper guide</li> <li>Length paper guide</li> </ul>	Inspect	Replace	Check for correct positioning.
Separator pad	Inspect, clean if needed	Replace	Clean with a damp cloth.
Tray pick roller	Inspect, clean	Replace	Clean with a damp cloth.
MPF pick roller	Inspect, clean	Inspect, clean	Clean with a damp cloth.
Rear door	Inspect	Inspect	Ensure correct operation and closure.
Duplex paper path	Inspect	Inspect	Check for paper fragments and obstructions.
Toner spillage	Clean	Clean	Remove all toner spillage from the printer.

### Scheduled maintenance

The operator panel displays the message 80 or Scheduled Maintenance when it reaches certain page counts. It is necessary to replace the appropriate maintenance kit at certain intervals to maintain the print quality and reliability of the printer. If needed, reset the maintenance counter after performing scheduled maintenance.

#### **Fuser maintenance kits**

The printer may stop printing when the fuser rated life is reached. At rated fuser life, a Fuser maintenance kit is required. The correct Fuser maintenance kit must be installed for the type of fuser that is installed in the printer. See <u>"Identifying the type of fuser used in the printer" on page 794</u>.

There are multiple warnings to indicate that the fuser is nearing end of life and that a maintenance kit is required.

#### Maintenance kit nearly low [80.0x]

- 1 Replace the maintenance kit. For more information, see the instruction sheet that came with the replacement parts.
- 2 From the printer control panel, select Continue to clear the message and continue printing. For

non-touch-screen printer models, press OK to confirm.

Maintenance

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**3** If you do not have a maintenance kit, then see <u>"Maintenance kits" on page 791</u>, or see the Ordering a maintenance kit section of the User's Guide.

#### Maintenance kit low [80.1x]

- 1 Replace the maintenance kit. For more information, see the instruction sheet that came with the replacement parts.
- 2 From the printer control panel, select Continue to clear the message and continue printing. For

non-touch-screen printer models, press OK to confirm.

**3** If you do not have a maintenance kit, then see <u>"Maintenance kits" on page 791</u>, or see the Ordering a maintenance kit section of the User's Guide.

#### Maintenance kit very low, 2000 estimated pages remain [80.2x]

- 1 Replace the maintenance kit. For more information, see the instruction sheet that came with the replacement parts.
- **2** From the printer control panel, select **Continue** to clear the message and continue printing. For non-touch-screen printer models, press to confirm.
- **3** If you do not have a maintenance kit, then see <u>"Maintenance kits" on page 791</u>, or see the Ordering a maintenance kit section of the User's Guide.

#### Maintenance kit low, 0 estimated pages remain [80.3x]

- 1 Replace the maintenance kit. For more information, see the instruction sheet that came with the replacement parts.
- 2 If you do not have a maintenance kit, then see <u>"Maintenance kits" on page 791</u>, or see the Ordering a maintenance kit section of the User's Guide.

#### Maintenance kit very low, 0 estimated pages remain [80.4x]

- 1 Replace the maintenance kit. For more information, see the instruction sheet that came with the replacement parts.
- 2 If you do not have a maintenance kit, then see <u>"Maintenance kits" on page 791</u>, or see the Ordering a maintenance kit section of the User's Guide.

**Note:** The printer is not intended to continue past this point [80.4x]. There are no additional procedures that will allow the printer to print without installing a maintenance kit.

#### **Maintenance kits**

The control panel displays an 80.xx error or 86.xx error at required maintenance intervals. It is necessary to install the appropriate maintenance kit to maintain the print quality and reliability of the printer and ADF. The following maintenance kits are available:

Part number and kit	Contents
MXB70KA1—225K Maintenance kit, Belt SY fuser (115 V LTR LRP, Type 00) *Factory default unit	<ul> <li>41X1115—Fuser</li> <li>41X1108—3 Pick rollers</li> <li>41X1119—3 Tray separators</li> <li>41X1076—Transfer roller</li> </ul>
MXB70KB1—225K Maintenance kit, Belt SY fuser (115 V LTR NLRP, Type 05)	<ul> <li>41X2143—Fuser</li> <li>41X1108—3 Pick rollers</li> <li>41X1119—3 Tray separators</li> <li>41X1076—Transfer roller</li> </ul>
MXB70KE1—400K Maintenance kit, Belt HY fuser (115 V LTR LRP, Type 32)	<ul> <li>41X2155—Fuser</li> <li>41X1108—3 Pick rollers</li> <li>41X1119—3 Tray separators</li> <li>41X1076—Transfer roller</li> </ul>
MXB70KA—225K Maintenance kit, Belt SY fuser (230 V A4 LRP, Type 01) *Factory default unit	<ul> <li>OSP41X1116/// —Fuser</li> <li>OSP41X1108/// —3 Pick rollers</li> <li>OSP41X1119/// —3 Tray separators</li> <li>OSP41X1076/// —Transfer roller</li> </ul>
MXB70KE—400K Maintenance kit, Belt HY fuser (230 V A4 LRP, Type 33)	<ul> <li>OSP41X2156/// —Fuser</li> <li>OSP41X1108/// —3 Pick rollers</li> <li>OSP41X1119/// —3 Tray separators</li> <li>OSP41X1076/// —Transfer roller</li> </ul>
MXB70KC—300K Maintenance kit, ADF	<ul> <li>ADF separator roller</li> <li>ADF pick roller</li> <li>ADF feed belt</li> </ul>
MXB70KD—400K Maintenance kit, Printer rollers	<ul> <li>OSP41X1108/// —3 Pick rollers</li> <li>OSP41X1119/// —3 Tray separators</li> <li>OSP41X1076/// —Transfer roller</li> </ul>

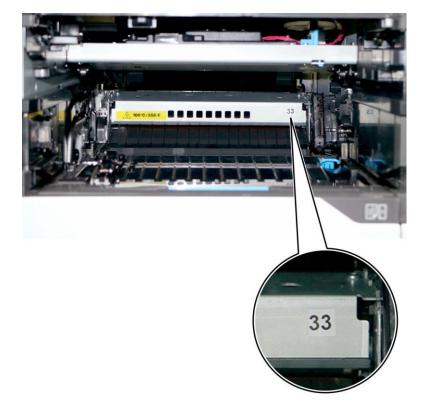
Descriptions in page 793 are not applicable to this model. Therefore it was deleted.

After replacing the maintenance kit, the maintenance count will automatically be reset to zero to clear the 80.xx error. For 86.xx errors, the ADF maintenance count must be manually reset.

#### Identifying the type of fuser used in the printer

From the front of the printer:

- 1 Open the front door, and then remove the toner cartridge and imaging unit.
- **2** Find the two-digit number to identify the fuser type.



From the rear of the printer:

- 1 Open the rear door.
- 2 Find the barcode sticker on the fuser.

The two-digit number for identifying the fuser type can be found on the sticker.

#### **Resetting the Roller Kit counter**

After replacing a roller kit, the roller kit counter must be reset to zero to clear the "81 Replace Roller kit" message.

To reset the maintenance count:

- **1** Turn off the printer.
- 2 Enter the Configuration Menu.
  - a Press and hold the 2 and 6 buttons simultaneously.
  - **b** Turn on the printer.

c Release the buttons after 10 seconds. The Configuration Menu appears on the LCD.

- **3** Touch **Reset Roller Kit Counter** from the Configuration Menu.
- **4** From the options displayed, select the roller kit to reset.
- 5 Touch Yes to reset the roller kit counter value. Touch No or Back to return to the previous menu.

The roller kit count resets to zero, and the LCD returns to the Configuration Menu.

### **Preventive maintenance**

Between scheduled maintenance intervals, paper feed, paper transport, and image quality problems can occur. Some preventive maintenance procedures can help prevent issues like these.

#### **Device-specific preventive maintenance**

An ADF feed roller cleaning can be performed to improve paper feed reliability. ADF feed roller cleaning cloths are provided with a new scanner, stored in the compartment beneath the exit tray. Additional cleaning cloths are available.

To clean the display, keypad, flatbed scanner glass, and upper and lower ADF scanner glass, use the LCD cleaning cloth. A single two-step LCD cleaning cloth is provided with a new scanner, stored in the compartment beneath the exit tray. Additional cleaning cloths are available.

The following table lists the parts needed to perform preventive maintenance:

	Part number	Description	Maintenance interval
▲			
	0SP40X0392///	LCD cleaning kit	As needed

### **Lubrication specification**

There are no lubrication requirements for this printer.

### **Cleaning printer parts**

### **Cleaning the printer**

**CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock when cleaning the exterior of the printer, unplug the power cord from the electrical outlet and disconnect all cables from the printer before proceeding.

#### Notes:

- Perform this task after every few months.
- Damage to the printer caused by improper handling is not covered by the printer warranty.
- 1 Turn off the printer, and then unplug the power cord from the electrical outlet.
- **2** Remove paper from the standard bin and multipurpose feeder.
- **3** Remove any dust, lint, and pieces of paper around the printer using a soft brush or vacuum.
- **4** Wipe the outside of the printer with a damp, soft, lint-free cloth.

#### Notes:

- Do not use household cleaners or detergents, as they may damage the finish of the printer.
- Make sure that all areas of the printer are dry after cleaning.
- **5** Connect the power cord to the electrical outlet, and then turn on the printer.

#### **Cleaning the scanner**

**1** Open the scanner cover.



- **2** Using a damp, soft, lint-free cloth, wipe the following areas:
  - ADF glass



• ADF glass pad



• Scanner glass



• Scanner glass pad



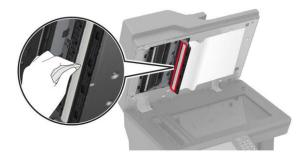
**3** Open door E.



- **4** Using a damp, soft, lint-free cloth, wipe the following areas:
  - ADF glass pad in door E



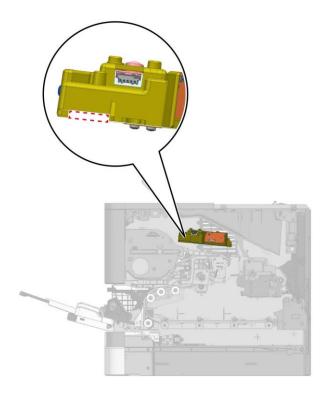
• ADF glass in door E



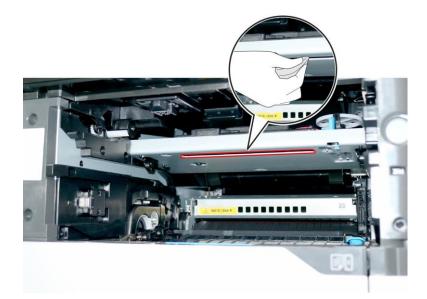
**5** Close door E, and then close the scanner cover.

### **Cleaning the printhead glass**

- 1 Remove the toner cartridge and imaging unit.
- **2** Locate the exit glass under the printhead.



**3** Wipe the exit glass using a lint-free cloth.



# **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

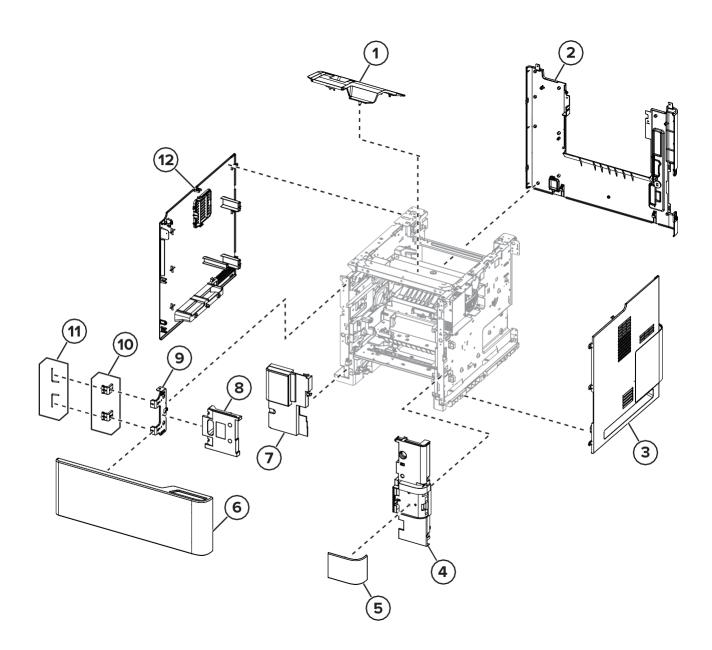
The following abbreviations are used in the parts catalog:

- **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:

Descriptions in page 801 to 802 are not applicable to this model. Therefore it was deleted.

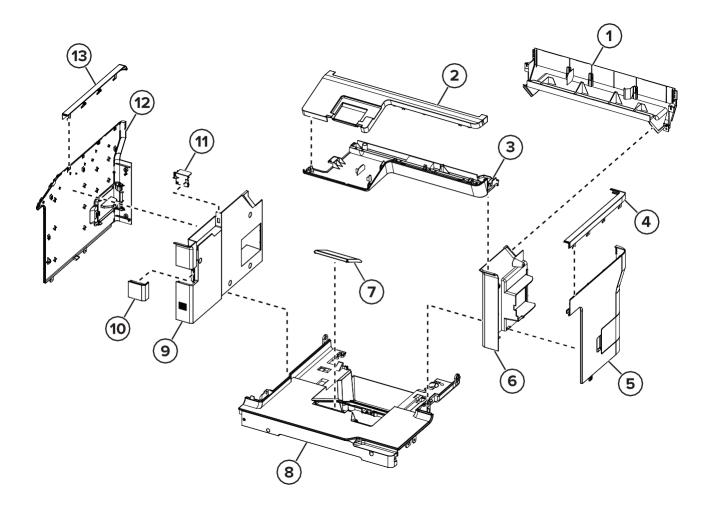
# Assembly 2: Covers 1



# Assembly 2: Covers 1

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1130	1	1	Printhead access cover	<u>"Printhead removal" on page 502</u>
2	41X1259	1	1	Rear cover	<u>"Rear cover removal" on page</u> 494
3	41X1270	1	1	Right cover	"Right cover removal" on page 461
4	41X1728	1	1	Inner right cover	
5	41X1729	1	1	Front right snap cover	
6	41X1267	1	1	Front door	<u>"Front door removal" on page</u> 483
7	41X1266	1	1	Left inner lower cover	
8	41X1265	1	1	Left inner upper cover	
9	41X1642	1	1	Front door bracket	
10	41X1643	2	2	Front door pivot	
11	41X1154	2	2	Front door pins	"Front door removal" on page 483
12	41X1268	1	1	Left cover	<u>"Left cover removal" on page</u> 444

# Assembly 3: Covers 2



# Assembly 3: Covers 2

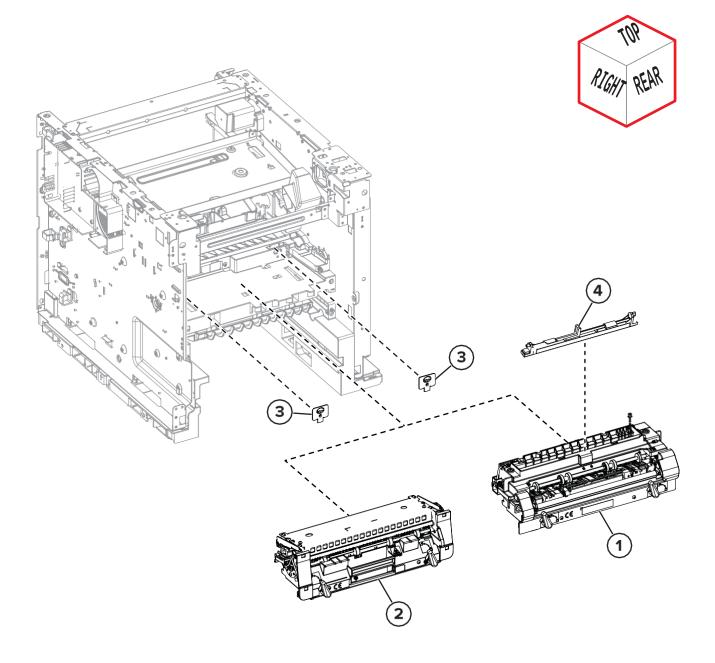
Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1260	1	1	Scanner rear cover	
2	41X1272	1	1	Scanner front upper cover	<u>"Scanner front upper cover removal"</u> on page 539
3	41X1255	1	1	Scanner lower cover	
4	41X0234	1	1	Scanner right upper cover	
5	41X1263	1	1	Right outer column cover	<u>"Right outer column cover removal"</u> on page 466
6	41X1258	1	1	Right inner column cover	<u>"Right inner column cover removal"</u> on page 460
7	41X2314	1	1	Bin extender	
8	41X1254	1	1	Bin cover	"Bin cover removal" on page 506
9	41X1257	1	1	Left inner column cover	<u>"Left inner column cover removal"</u> on page 443
10	41X1262	1	1	Keyboard option cover	<u>"Left inner column cover removal"</u> on page 443
11	41X1274	1	1	USB socket cover	
12	41X1261	1	1	Left outer column cover	<u>"Left outer column cover removal"</u> on page 449
13	41X0233	1	1	Scanner left upper cover	

Assembly 4:

**Assembly 5:** 

Descriptions in page 807 to 810 are not applicable to this model. Therefore it was deleted

# Assembly 6: Fuser



### **Assembly 6: Fuser**

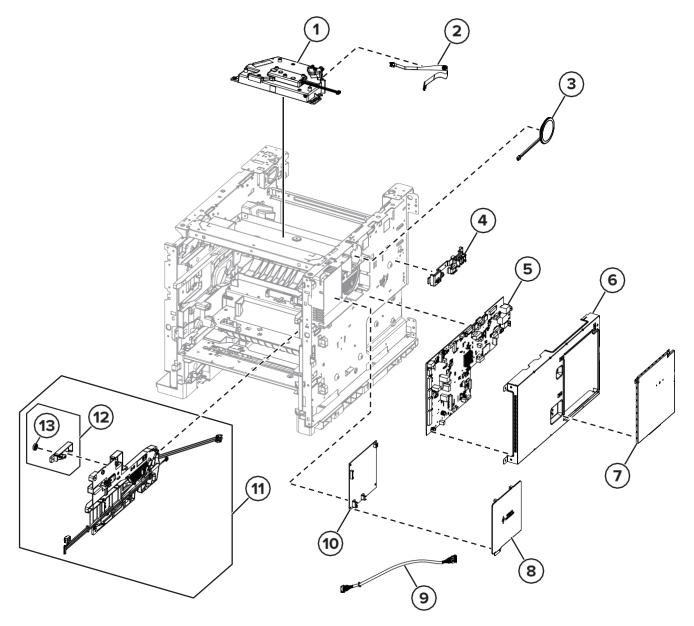
Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2147	1	1	HR fuser, 115V Contact Detack LRP TYPE 11	<u>"Fuser removal" on</u> page 498
	44.724.40				47
1	41X2149	1	1	HR fuser, 115V Contact Detack NLRP TYPE 17	<u>"Fuser removal" on</u> page 498
2	41X1115	1	1	Belt SY fuser, 115V LTR LRP TYPE 00	<u>"Fuser removal" on</u> page 498
2	41X1116	1	1	Belt SY fuser, 230V A4 LRP TYPE 01 Note: For 225K : Factory default unit	<u>"Fuser removal" on</u> page 498
2	41X1117	1	1	Belt SY fuser, 100V A4 LRP TYPE 02	<u>"Fuser removal" on</u> page 498
2	41X2141	1	1	Belt SY fuser, 115V A4 LRP TYPE 03	<u>"Fuser removal" on</u> page 498

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Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
2	41X2143	1	1	Belt SY fuser, 115V LTR NLRP TYPE 05	<u>"Fuser removal" on</u> page 498
2	41X2145	1	1	Belt SY fuser, 100V A4 NLRP TYPE 07	<u>"Fuser removal" on</u> page 498
2	41X2146	1	1	Belt SY fuser, 115V A4 NLRP TYPE 08	<u>"Fuser removal" on</u> page 498
2	41X2155	1	1	Belt HY fuser, 115V LTR LRP TYPE 32	<u>"Fuser removal" on</u> page 498
2	41X2156	1	1	Belt HY fuser, 230V A4 LRP TYPE 33 <b>Note:</b> For 400k.	<u>"Fuser removal" on</u> page 498
2	41X2157	1	1	Belt HY fuser, 115V A4 LRP TYPE 35	<u>"Fuser removal" on</u> page 498
3	41X1075	2	1	Fuser attach bracket	
4	40X8581	1	1	Wax wiper (hot roller)	
4	40X8579	1	1	Oil wiper (hot roller)	

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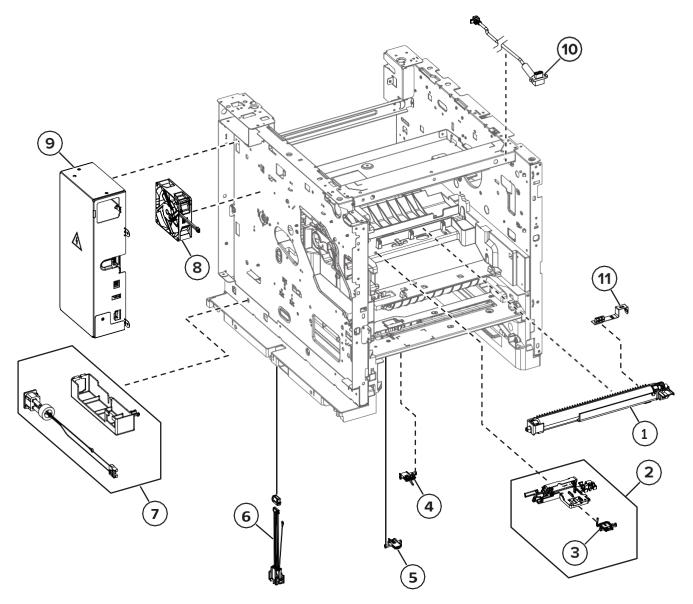
## **Assembly 7: Electronics 1**



Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1106	1	1	Printhead	"Printhead removal" on page 502
2	41X1111	1	1	Printhead video cable	
3	40X9079	1	1	Speaker	"Speaker removal" on page 474
4	41X1269	1	1	Cable holder	
5	41X1147	1	1	Controller board	"Controller board removal" on page 472
6	41X1052	1	1	Controller board housing	
7	41X1053	1	1	Controller board shield	
8	41X1622	1	1	HVPS shield	
9	41X2320	1	1	LVPS cable	
10	41X1099	1	1	HVPS	"HVPS removal" on page 467
11	41X1087	1	1	High voltage contacts guide	<u>"High voltage contacts guide</u> removal" on page 474
12	41X1088	1	1	Toner cartridge bias roller	
13	41X2610	1	4	Guide roller	

## **Assembly 7: Electronics 1**

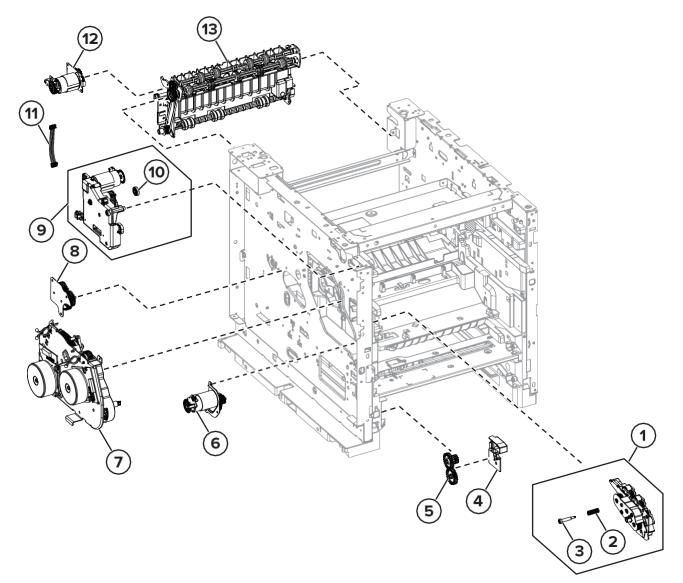
# Assembly 8: Electronics 2



Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure	
1	41X1076	1	1	Transfer roller <u>"Transfer roller removal" on page</u> 490		
2	41X1077	1	1	Sensor (toner density)	<u>"Sensor (toner density) removal" on</u> page 490	
3	41X1095	1	1	Sensor (input)	<u>"Sensor (input) removal" on page</u> <u>487</u>	
4	41X1093	1	1	Sensor (tray 1 pick) <u>"Sensor (tray 1 pass-through)</u> removal" on page 513		
5	41X1094	1	1	Sensor (pass-through)	(h) <u>"Sensor (tray 1 pick) removal" on</u> page 514	
6	41X1086	1	1	Optional tray interface cable		
7	41X1097	1	1	AC power socket	<u>"AC power socket removal" on page 450</u>	
8	41X1177	1	1	Fan, 80 mm	"Main fan removal" on page 453	
9	41X1112	1	1	LVPS <u>"LVPS removal" on page 454</u>		
10	41X2356	1	1	USB host cable		
11	41X2673	1	1	Transfer roller contact	<u>"Transfer roller contact removal" on</u> page 500	

## Assembly 8: Electronics 2

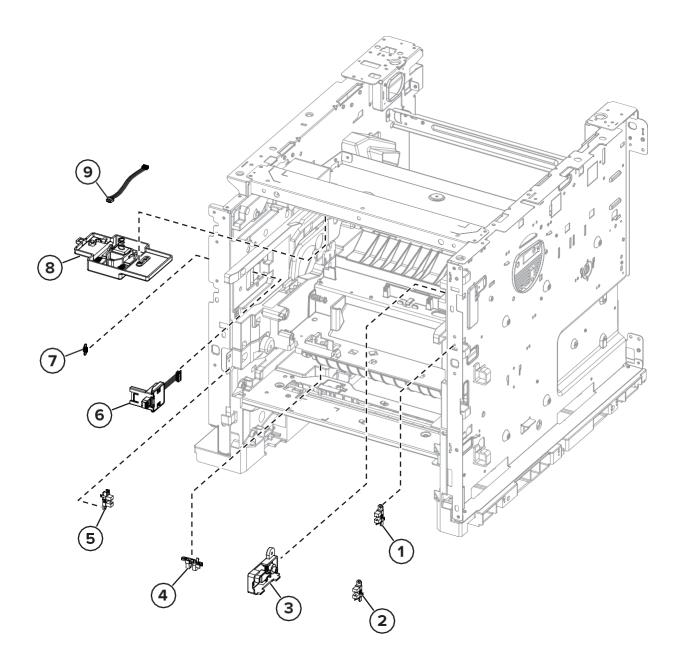
# Assembly 9: Motors



#### **Assembly 9: Motors**

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1079	1	1	Aligner <u>"Aligner removal" on page 486</u>	
2	41X2135	1	1	Aligner spring	
3	41X1081	1	1	Aligner screw	
4	41X2123	1	1	Gear cover	<u>"Optional tray drive gear removal" on</u> page 511
5	41X1615	1	1	Optional tray drive gear	<u>"Optional tray drive gear removal" on</u> page 511
6	41X1105	1	1	Motor (MPF)	"Motor (MPF) removal" on page 454
7	41X1102	1	1	Main motor drive <u>"Main motor drive removal" on</u> page 451	
8	41X1104	1	1	Fuser drive gears	"Fuser drive gear removal" on page 452
9	41X1103	1	1	Toner cartridge drive	
10	41X2610	1	4	Guide roller	
11	41X2355	1	1	Toner cartridge motor cable	
12	41X1096	1	1	Motor (redrive)	<u>"Motor (redrive) removal" on page</u> 457
13	41X1109	1	1	Upper redrive	"Upper redrive removal" on page 499

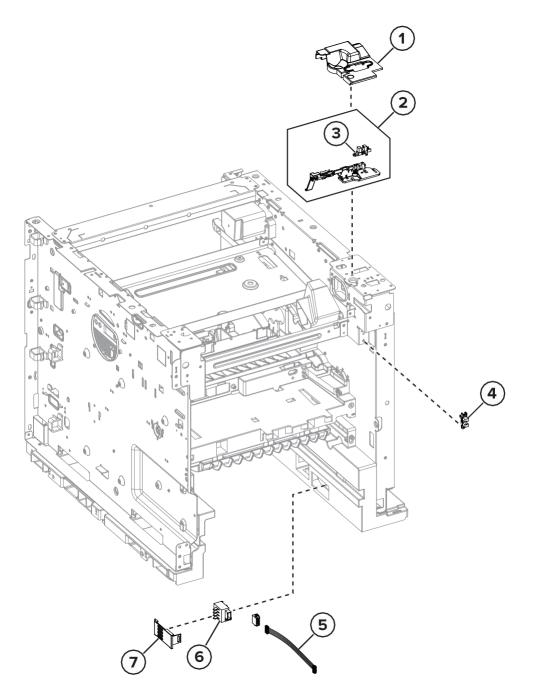
#### Assembly 10: Sensors 1



## Assembly 10: Sensors 1

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1083	1	1	Sensor (front door interlock)	
2	41X1083	1	1	Sensor (toner cartridge shutter)	<u>"Sensor (toner cartridge shutter)</u> removal" on page 477
3	41X1089	1	1	Toner cartridge shutter actuator	<u>"Toner cartridge shutter actuator</u> removal" on page 477
4	41X1083	1	1	Sensor (duplex interlock)	<u>"Sensor (duplex interlock) removal"</u> on page 485
5	41X1083	1	1	Sensor (MPF paper present)	
6	41X1084	1	1	Sensor (toner smart chip)	<u>"Sensor (toner smart chip) removal"</u> on page 458
7	41X2124	1	1	Toner smart chip spring	<u>"Sensor (toner smart chip) removal"</u> on page 458
8	41X1072	1	1	Sensor (toner low)	"Sensor (toner low) removal" on page 489
9	41X2353	1	1	Toner low sensor cable	

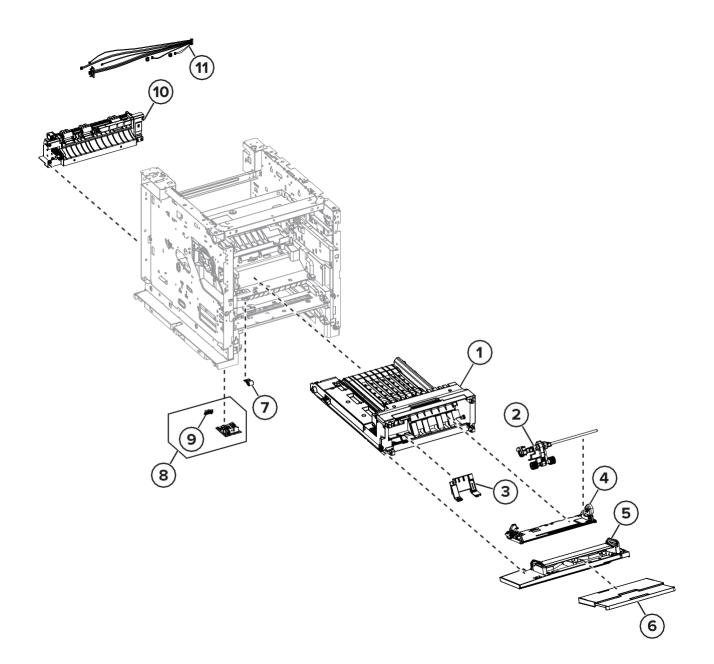
#### Assembly 11: Sensors 2



## Assembly 11: Sensors 2

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1056	1	1	Bin full sensor cover <u> "Bin full sensor cover removal"</u> <u> page 505</u>	
2	41X1110	1	1	Sensor (standard bin full) with actuator	
3	41X1083	1	1	Sensor (standard bin full) <u>"Sensor (standard bin full</u> <u>on page 506</u>	
4	41X1083	1	1	Sensor (rear door interlock)	<u>"Sensor (rear door interlock)</u> <u>removal" on page 499</u>
5	41X2354	1	1	Paper size sensor cable	
6	40X7911	1	1	Sensor (paper size)	<u>"Sensor (paper size) removal" on</u> page 512
7	41X1085	1	1	Paper size sensor cover	<u>"Sensor (paper size) removal" on</u> page 512

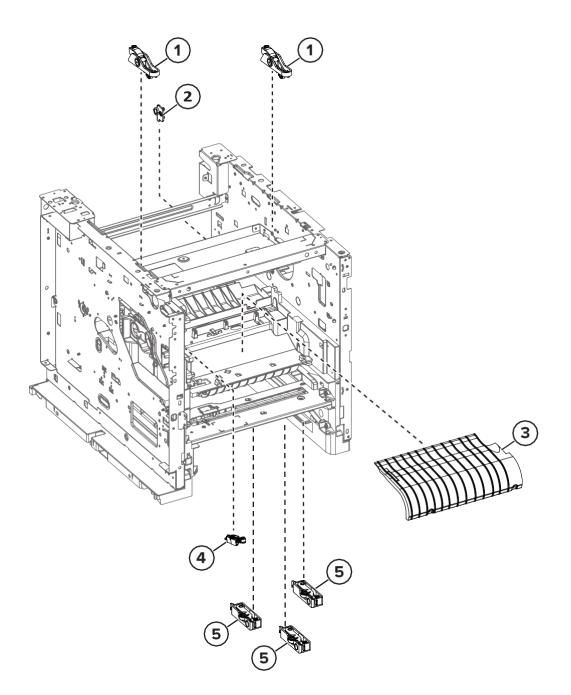
## Assembly 12: Duplex



#### Assembly 12: Duplex

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1122	1	1	Duplex/MPF tray	"Duplex/MPF tray removal" on page 483
2	41X1123	1	1	MPF pick roller	"MPF pick roller removal" on page 488
3	41X1638	1	1	MPF tray separator pad	
4	41X1635	1	1	MPF tray drive/support	
5	41X1636	1	1	MPF front door	
6	41X1124	1	1	MPF tray extension	
7	41X1631	1	1	Duplex pinch roller	
8	41X1078	1	1	Sensor (duplex path) with cover	<u>"Sensor (duplex path) with cover</u> removal" on page 512
9	41X1083	1	1	Sensor (duplex path)	<u>"Sensor (duplex path) with cover</u> removal" on page 512
10	41X1050	1	1	Motor (duplex)	<u>"Motor (duplex) removal" on</u> page 497
11	41X2318	1	1	Sensor/redrive motor cable	

## Assembly 13: Frames



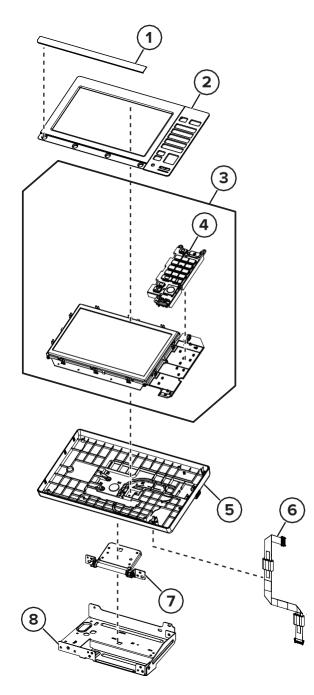
#### Assembly 13: Frames

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1073	2	1	Imaging unit clamp	
2	41X1092	1	1	Rear door right pivot	
3	41X1080	1	1	Inner guide deflector	<u>"Inner guide deflector removal" on page 484</u>
4	41X1618	1	1	Imaging unit side bias roller	
5	41X1091	3	1	Tray bias roller, front	
5	41X1091	3	1	Tray bias roller, top	
5	41X1091	3	1	Tray bias roller, rear	

#### Assembly 14:

Descriptions in page 829 to 830 are not applicable to this model. Therefore it was deleted.

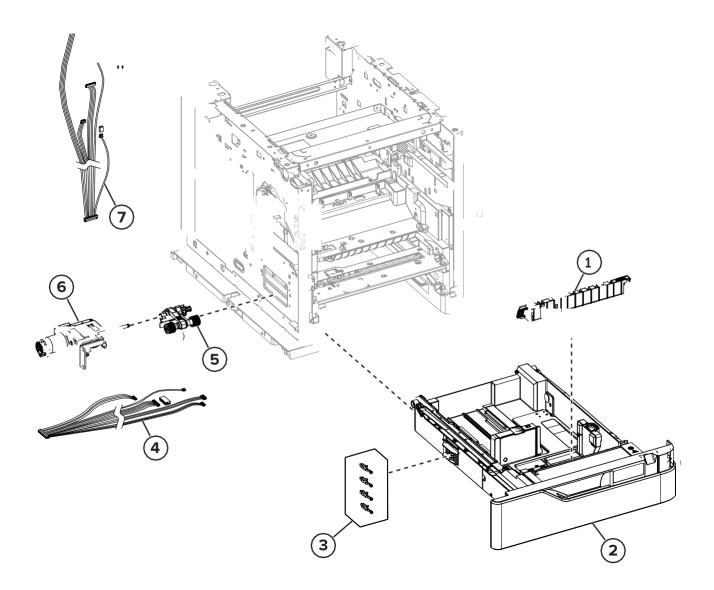
## Assembly 15: Control panel



## Assembly 15: Control panel

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2387	1	1	Bezel, control panel (MX-B707F)	"Control panel cover removal" on page 479
2	41X0544	1	1	Cover, control panel (10.1- inch)	"Control panel cover removal" on page 479
3	41X1149	1	1	Control panel (10.1-inch) board	"Control panel board removal" on page 479
4	41X0224	1	1	Button kit, Control panel (10.1-inch)	"Control panel button kit removal" on page 481
5	41X1151	1	1	Control panel housing (large)	
6	41X2309	1	1	Control panel cable	
7	41X1256	1	1	Control panel hinge	
8	41X2325	1	1	Control panel bracket	

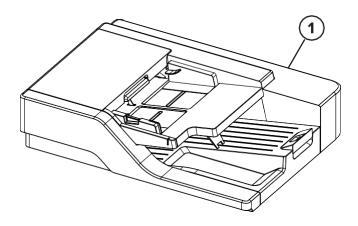
## Assembly 16: Tray/feed



## Assembly 16: Tray/feed

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1119	1	1	Separator pad	<u>"Separator pad removal" on</u> page 510
2	41X1646	1	1	Tray insert	"Tray insert removal" on page 510
3	41X1120	1	4	Paper size sensor actuator	
4	41X2317	1	1	Feeder/paper path cable	
5	41X1108	1	1	Tray 1 pick roller	"Pick roller removal" on page 511
6	41X1107	1	1	Paper feeder	<u>"Paper feeder removal" on page</u> 457
7	41X2319	1	4	Feeder/paper path cable	

## Assembly 17: ADF 1

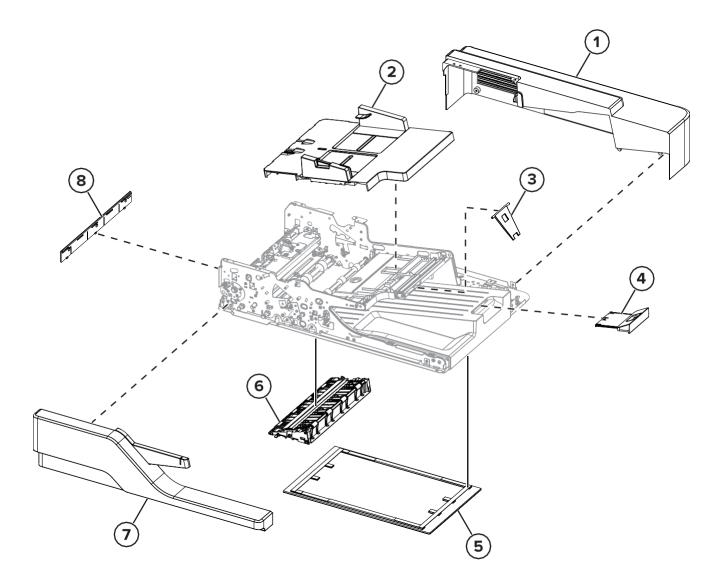


## Assembly 17: ADF 1

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1895	1	1	ADF	"ADF removal" on page 519

Parts catalog

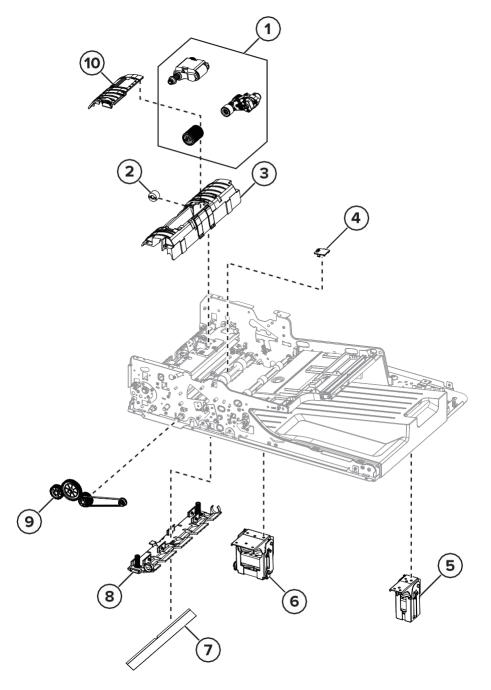
## Assembly 18: ADF 2



## Assembly 18: ADF 2

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1886	1	1	ADF rear cover	"ADF rear cover removal" on page 519
2	41X1884	1	1	ADF tray	"ADF tray removal" on page 520
3	41X0295	1	1	Paper bail	
4	41X0304	1	1	ADF bin extender	
5	41X1891	1	1	Scanner glass pad	
6	41X1905	1	1	ADF bottom door	"ADF bottom door removal" on page 522
7	41X0297	1	1	ADF front cover	"ADF front cover removal" on page 521
8	41X0277	1	1	ADF left lower cover	"ADF top door cover removal" on page 531

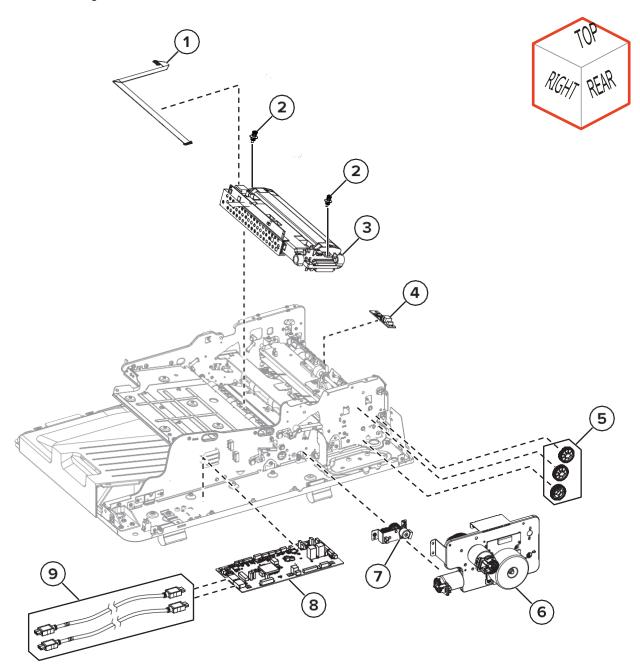
## Assembly 19: ADF 3



## Assembly 19: ADF 3

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	МХВ70КС	1	1	ADF maintenance kit	<u>"ADF maintenance kit</u>
				<ul> <li>Warning—Potential Damage: If the following parts are not replaced at the same time, feed issues may occur.</li> <li>ADF pick roller</li> <li>ADF feed belt</li> <li>ADF separator roller</li> </ul>	<u>removal" on page 516</u>
2	41X1897	1	1	Torque limiter	
3	41X0306	1	1	ADF input guide	
4	41X1032	1	1	ADF lift plate shim	
5	41X2217	1	1	ADF right hinge	
6	41X2216	1	1	ADF left hinge	
7	41X0305	1	1	Float plate guide	
8	41X0319	1	1	Float plate	
9	41X0317	1	1	ADF front drive train	<u>"ADF front drive train</u> removal" on page 524
10	41X2697	1	1	Separator roller cover	<u>"ADF maintenance kit</u> removal" on page 516

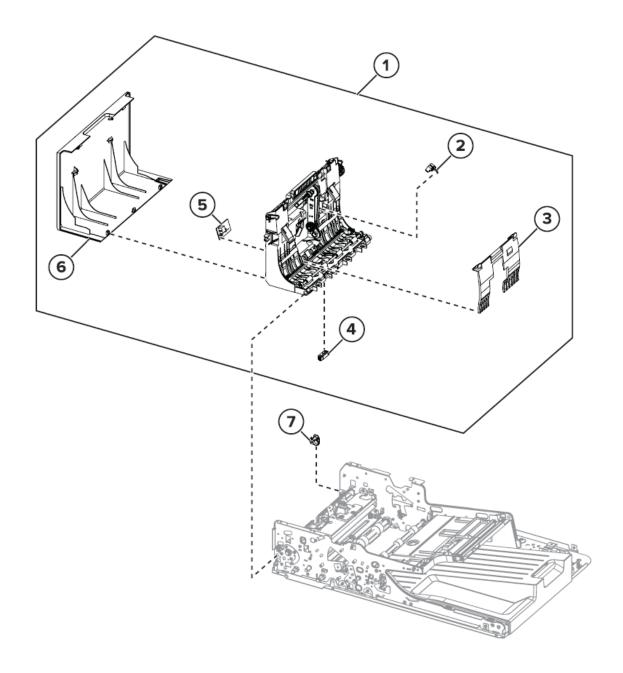
## Assembly 20: ADF4



## Assembly 20: ADF4

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X0296	1	1	ADF CCD FFC	
2	41X1901	2	1	CCDM hold down screw	
3	41X1900	1	1	ADF scanner CCD	<u>"ADF scanner CCD removal" on</u> page 536
4	41X0322	1	1	Sensor (ADF multifeed receiver)	<u>"Sensor (ADF multifeed receiver)</u> removal" on page 535
5	41X0316	1	1	ADF rear drive gears	"ADF rear drive gears removal" on page 532
6	41X1888	1	1	Motor (ADF)	<u>"Motor (ADF) removal" on page</u> 526
7	41X0313	1	1	Motor (ADF calibration roller)	"Motor (ADF calibration roller) removal" on page 528
8	41X1896	1	1	ADF controller board	<u>"ADF controller board removal" on</u> page 520
9	41X2676	1	2	HDMI cable pack	

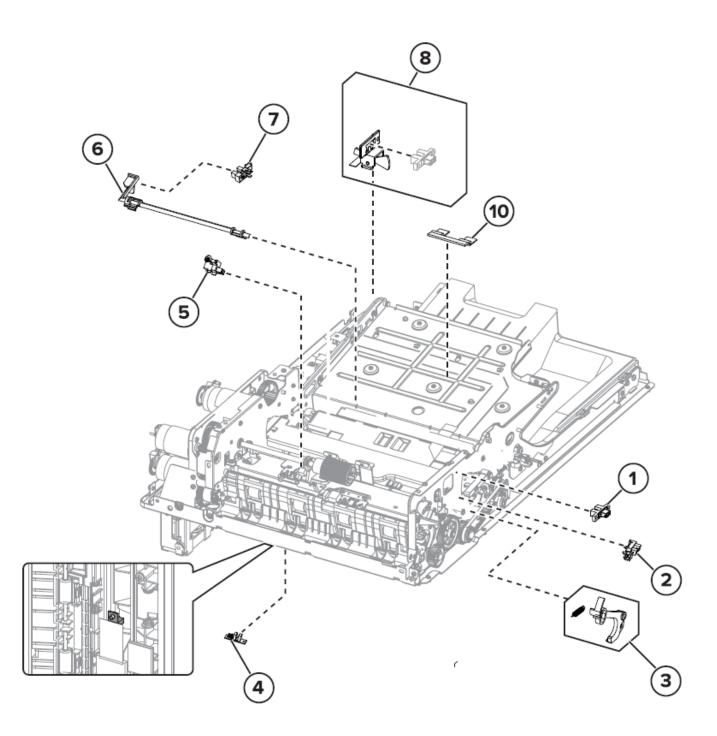
## Assembly 21: ADF 5



## Assembly 21: ADF 5

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1902	1	1	ADF top door	<u>"ADF top door removal" on</u> page 529
2	41X1898	1	1	Sensor (ADF gap detect)	
3	41X1883	1	1	ADF pick roller cover	"ADF pick roller cover removal" on page 515
4	40X7779	1	1	Sensor (ADF deskew)	
5	41X0574	1	1	Sensor (ADF multifeed transmitter)	<u>"Sensor (ADF multifeed transmitter)</u> removal" on page 535
6	41X0579	1	1	ADF top door cover	"ADF top door cover removal" on page 531
7	41X0310	1	1	ADF top door hinge bushing	

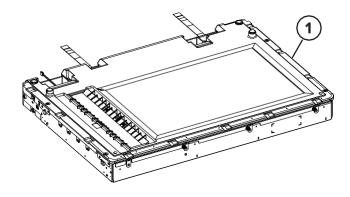
## Assembly 22: ADF 6



## Assembly 22: ADF 6

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1882	1	1	Sensor (ADF top door interlock)	<u>"Sensor (ADF top door interlock)</u> removal" on page 525
2	40X7592	1	1	Sensor (ADF bottom door interlock)	
3	41X0294	1	1	ADF bottom interlock actuator	"ADF bottom interlock actuator removal" on page 533
4	41X0576	1	1	Sensor (ADF 1st scan)	
5	41X1885	1	1	Sensor (ADF pick)	
6	41X1889	1	1	ADF paper exit actuator	"ADF paper exit actuator removal" on page 539
7	40X7592	1	1	Sensor (ADF paper exit)	
8	41X1881	1	1	Sensor (ADF closed) with actuator	
10	41X2791	1	1	Exit bail retainer	

## Assembly 23: Flatbed scanner 1



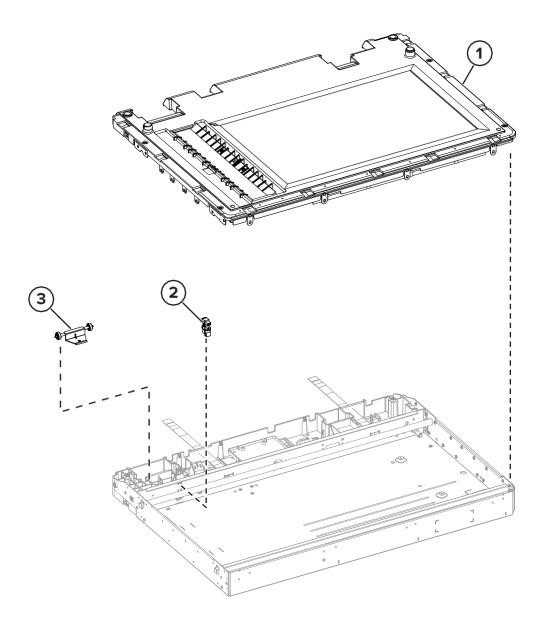
Parts catalog **847** 

## Assembly 23: Flatbed scanner 1

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41 \ 1 9 0 2	1	1	Flathed coopper	"Flathed seener removal" on
	41X1893	1	I	Flatbed scanner	<u>"Flatbed scanner removal" on</u> page 542

Parts catalog

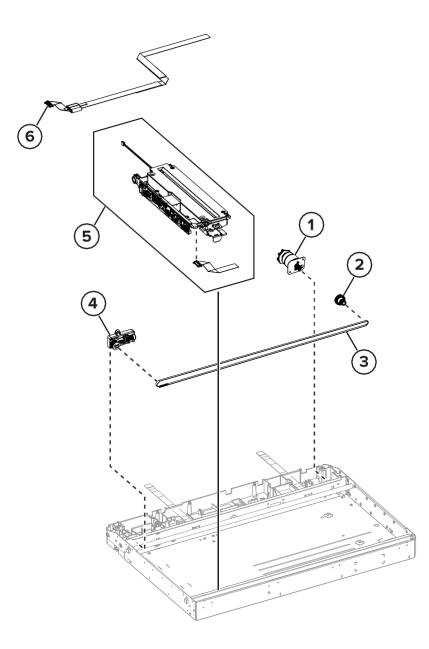
## Assembly 24: Flatbed scanner 2



## Assembly 24: Flatbed scanner 2

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X0275	1	1	Flatbed scanner top cover	<u>"Flatbed scanner top cover removal"</u> on page 545
2	41X1882	1	1	Sensor (FB CCDM)	<u>"Sensor (FB CCDM) removal" on</u> page 552
3	41X0286	1	1	Hinge roller	

## Assembly 25: Flatbed scanner 3



# Assembly 25: Flatbed scanner 3

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2136	1	1	Motor (flatbed scanner)	<u>"Motor (flatbed scanner) removal"</u> on page 550
2	41X0279	1	1	Flatbed scanner gear	<u>"Flatbed scanner gear removal" on page 548</u>
3	41X0273	1	1	Flatbed scanner belt	
4	41X0284	1	1	Flatbed scanner tensioner pulley	"Flatbed scanner tensioner pulley removal" on page 554
5	41X1899	1	1	Flatbed scanner CCDM	<u>"Flatbed scanner CCDM removal"</u> on page 546
6	41X2362	1	1	Flatbed CCDM FFC	

#### 7464, 7465

# Assembly 26: Miscellaneous

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	40X8671	1	1	Cover, Removable HDD kit	
NS	40X9934	1	1	Hard disk drive, SATA	
NS	41X1026	1	1	Hard disk drive, USB	
NS	41X1373	1	1	Hard disk drive, SATA with FIPS	
NS	41X2033	1	1	RAM card, PCIe 8GB x32 DDP	
NS	41X1010	1	1	User flash memory, 256MB	
NS	41X1372	1	1	Wireless network card, N8370 with cable	
NS	41X1374	1	1	Fax card, 1 port right angle	
NS	40X4819	1	1	RS-232C serial interface card	
NS	40X4826	1	1	N8120 GigaBit Ethernet	
NS	40X4823	1	1	Parallel 1284-B interface card	
NS	40X9652	1	1	Adapter, Fiber gigabit ISP	
NS	41X1011	1	1	Font card, Hebrew	
NS	41X1012	1	1	Font card, Arabic	
NS	41X1013	1	1	Font card, Simplified Chinese	
NS	41X1014	1	1	Font card, Traditional Chinese	
NS	41X1015	1	1	Font card, Korean	
NS	41X1016	1	1	Font card, Japanese	
NS	41X1002	1	1	Forms and bar code card	
NS	41X1006	1	1	PRESCRIBE card	
NS	41X1004	1	1	IPDS card	
NS	41X2055	1	1	Smart card	
NS	40X8737	1	1	Authentication device, RFID	
NS	41X0997	1	1	Authentication device, Contact front	
NS	41X0998	1	1	Authentication device, Contactless front	
NS	41X0040	1	1	Keyboard kit, English	
NS	41X0041	1	1	Keyboard kit, French	
NS	41X0043	1	1	Keyboard kit, German	
NS	41X0044	1	1	Keyboard kit, Spanish	
NS	41X0045	1	1	Keyboard, English	
NS	41X0046	1	1	Keyboard, French	
NS	41X0048	1	1	Keyboard, German	
NS	41X0049	1	1	Keyboard, Spanish	

Parts catalog

#### 7464, 7465

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	41X2302	1	1	Braille label kit	
NS	41X0357	1	1	Surge protective device, 110–120V	
NS	41X0370	1	1	Surge protective device, 220–240V	
NS	41X2345	1	1	Caster wheel	

### Assembly 27: Maintenance kits

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure

#### 7464, 7465

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	MXB70KA1	1	1	225K Maintenance kit, Belt SY fuser (115 V LTR LRP, Type 00)	N/A
				<ul> <li>41X1115—Fuser</li> <li>41X1108—3 Pick rollers</li> <li>41X1119—3 Tray separators</li> <li>41X1076—Transfer roller</li> </ul>	
NS	МХВ70КА	1	1	225K Maintenance kit, Belt SY fuser (230 V A4 LRP, Type 01)	N/A
				<ul> <li>OSP41X1116/// —Fuser</li> <li>OSP41X1108/// —3 Pick rollers</li> <li>OSP41X1119/// —3 Tray separators</li> <li>OSP41X1076/// —Transfer roller</li> </ul>	

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
Asm-index NS		Units/mach 1	Units/FRU 1	Description 225K Maintenance kit, Belt SY fuser (115 V LTR NLRP, Type 05) • 41X2143—Fuser • 41X1108—3 Pick rollers • 41X1119—3 Tray separators • 41X1076—Transfer roller	Removal procedure N/A
NS	МХВ70КС	1	1	<ul><li>300K Maintenance kit, ADF</li><li>ADF separatorroller</li><li>ADF pick roller</li><li>ADF feed belt</li></ul>	N/A
NS	MXB70KD	1	1	400K Maintenance kit, Printer rollers • 0SP41X1108/// —3 Pick rollers • 0SP41X1119/// —3 Tray separators • 0SP41X1076/// —Transfer roller	N/A

Parts catalog

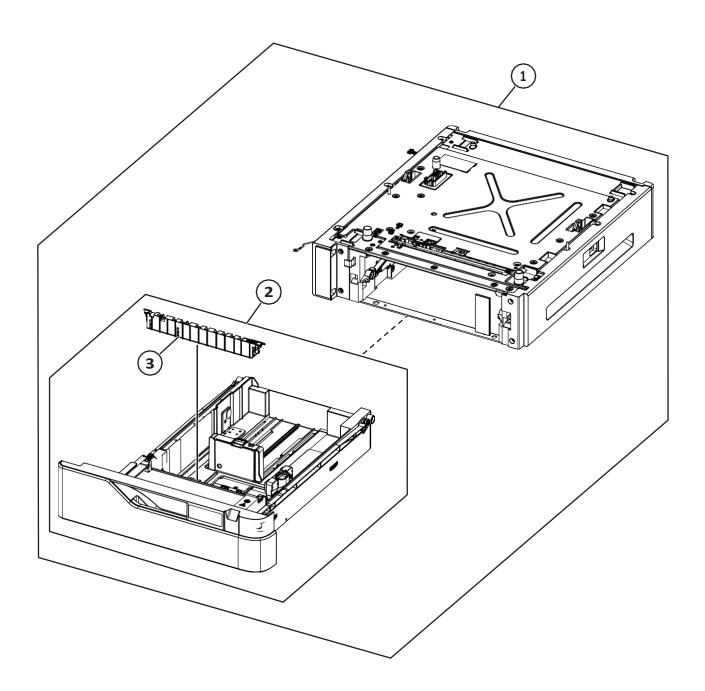
#### 7464, 7465

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	MXB70KE1	1	1	400K Maintenance kit, Belt HY fuser (115 V LTR LRP, Type 32)	N/A
				<ul> <li>41X2155—Fuser</li> <li>41X1108—3 Pick rollers</li> </ul>	
				<ul> <li>41X1108—S Pick Tollers</li> <li>41X1119—3 Tray separators</li> </ul>	
				• 41X1076—Transfer roller	
NS	MXB70KE	1	1	400K Maintenance kit, Belt HY fuser (230 V A4 LRP, Type 33) • 0SP41X2156/// —Fuser	N/A
				• 0SP41X2130/// — Puser	
				• OSP41X1119/// —3 Tray separators	
				• 0SP41X1076/// —Transfer roller	

#### Assembly 28:

Descriptions in page 859 to 860 are not applicable to this model. Therefore it was deleted.

#### Assembly 29: 550-sheet tray option 1



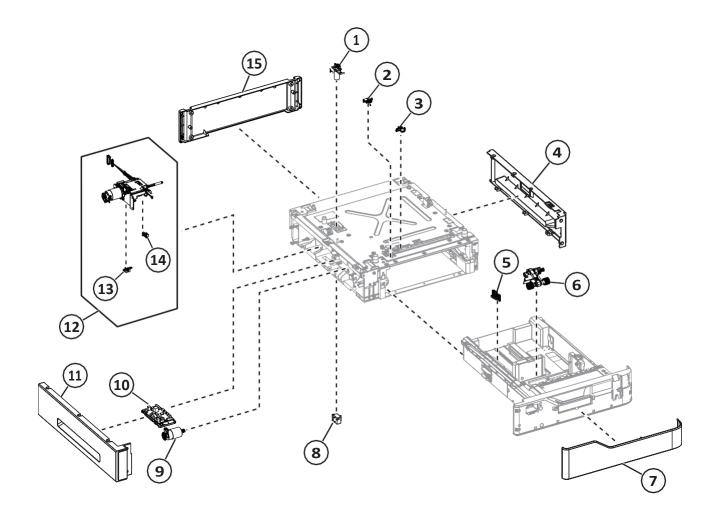
# Assembly 29: 550-sheet tray option 1

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1		1	1	Optional 550-sheet tray	<u>"Optional 550-sheet tray</u> removal" on page 582
2	41X1646	1	1	550-sheet tray insert	"Tray insert removal" on page 510
3	41X1119	1	1	Separator pad	"Separator pad removal" on page 510
NS	41X2208	1	1	Tray level indicator	"Tray level indicator removal" on page 590

#### Assembly 30:

Descriptions in page 863 to 866 are not applicable to this model. Therefore it was deleted.

# Assembly 31: 550-sheet tray option 2



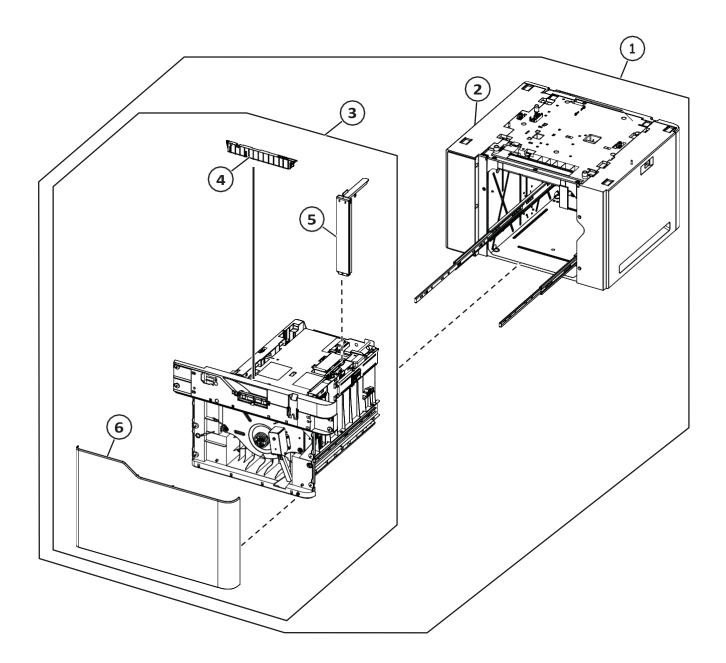
# Assembly 31: 550-sheet tray option 2

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1655	1	1	Interface cable	"550-sheet tray interface cable removal" on page 597
2	41X1093	1	1	Sensor (pick)	"Sensor (550-sheet tray pick) removal" on page 594
3	41X1094	1	1	Sensor (pass-through)	<u>"Sensor (550-sheet tray</u> pass-through) removal" on page 594
4	41X1667	1	1	Right cover (optional 550-sheet tray)	<u>"550 sheet tray right cover</u> removal" on page 585
5	41X1120	1	1	Paper size sensor actuator	<u>"550 sheet tray paper size</u> sensor actuator removal" on page 600
6	41X1108	1	1	Pick roller	"Pick roller removal" on page 590
7	41X1665	1	1	Front cover (optional 550-sheet tray)	<u>"550 sheet tray insert front</u> cover removal" on page 589
8	40X7911	1	1	Sensor (paper size)	"Sensor (550-sheet tray paper size) removal" on page 599
9	41X1656	1	1	Motor (transport)	"Motor (550-sheet tray transport) removal" on page 591
10	41X2194	1	1	Controller board (optional 550-sheet tray)	<u>"550 sheet tray controller</u> board removal" on page 593
11	41X1666	1	1	Left cover (optional 550-sheet tray)	<u>"550 sheet tray left cover</u> removal" on page 583
12	41X1107	1	1	Paper feeder	<u>"550 sheet tray paper feeder</u> removal" on page 591
13	41X1083	1	1	Sensor (paper present)	"Sensor (550-sheet tray paper present) removal" on page 596
14	41X1083	1	1	Sensor (pick roller index)	<u>"Sensor (550 sheet tray pick</u> roller index) removal" on page 595
15	41X1668	1	1	Rear cover (optional 550-sheet tray)	<u>"550-sheet tray rear cover</u> removal" on page 588

#### Assembly 32:

Descriptions in page 869 to 870 are not applicable to this model. Therefore it was deleted.

#### Assembly 33: 2100-sheet tray option 1



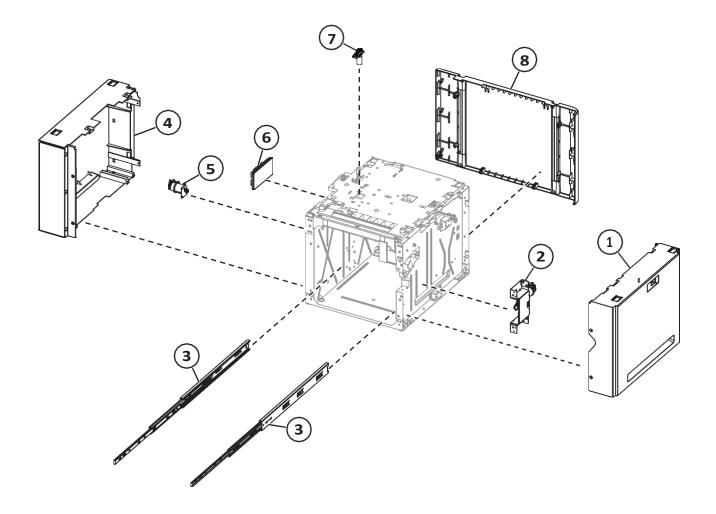
### Assembly 33: 2100-sheet tray option 1

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1		1	1	Optional 2100-sheet tray	"Optional 2100-sheet tray removal" on page 557
2	41X1674	1	1	2100-sheet tray base	<u>"A5 length guide removal" on page</u> 558
3	41X1672	1	1	2100-sheet tray insert	"2100-sheet tray insert removal" on page 559
4	41X1119	1	1	Separator pad	"Separator pad removal" on page 510
5	40X8176	1	1	A5 length guide	<u>"A5 length guide removal" on page</u> 558
6	41X1679	1	1	2100-sheet tray front cover	<u>"2100-sheet tray front cover removal"</u> on page 569
NS	41X2208	1	1	Tray level indicator	"Tray level indicator removal" on page 590

#### Assembly 34:

Descriptions in page 873 to 874 are not applicable to this model. Therefore it was deleted.

### Assembly 35: 2100-sheet tray option 2



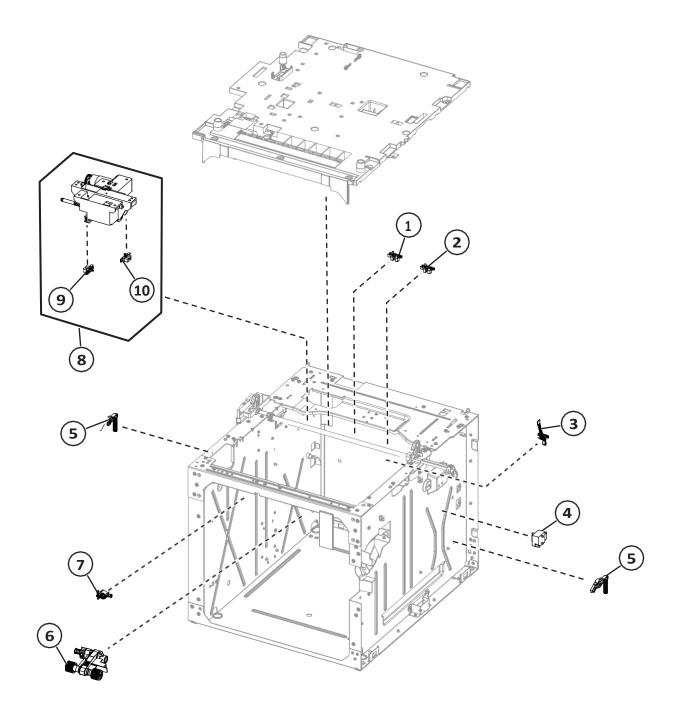
### Assembly 35: 2100-sheet tray option 2

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1681	1	1	2100-sheet tray right cover	"2100-sheet tray right cover removal" on page 563
2	41X1687	1	1	2100-sheet tray elevator drive	<u>"2100-sheet tray elevator drive</u> removal" on page 571
3	40X4593	2	1	2100-sheet tray rails	"2100-sheet tray rails removal" on page 576
4	41X1680	1	1	2100-sheet tray left cover	"2100-sheet tray left cover removal" on page 560
5	41X1686	1	1	Motor (2100-sheet tray transport)	"Motor (2100-sheet tray transport) removal" on page 565
6	41X1684	1	1	2100-sheet tray controller board	"2100-sheet tray controller board removal" on page 570
7	41X1685	1	1	2100-sheet tray interface cable	"2100-sheet tray interface cable removal" on page 573
8	41X1682	1	1	2100-sheet tray rear cover	"2100-sheet tray rear cover removal" on page 560

#### Assembly 36:

Descriptions in page 877 to 878 are not applicable to this model. Therefore it was deleted.

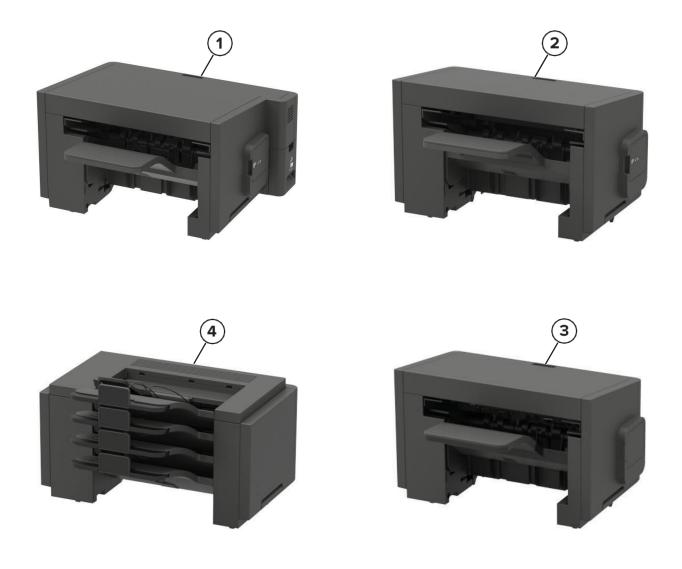
### Assembly 37: 2100-sheet tray option 3



### Assembly 37: 2100-sheet tray option 3

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1083	1	1	Sensor (2100-sheet tray near empty)	<u>"Sensor (2100-sheet tray near</u> empty) removal" on page 577
2	41X1083	1	1	Sensor (2100-sheet tray A5 length guide)	<u>"Sensor (2100-sheet tray A5 length guide) removal" on page 578</u>
3	40X8177	1	1	2100-sheet tray elevator sensor actuator	
4	40X7911	1	1	Sensor (2100-sheet tray paper size)	<u>"Sensor (2100-sheet tray paper size)</u> removal" on page 572
5	40X4585	2	1	2100-sheet tray bellcrank	<u>"2100-sheet tray bellcrank removal"</u> on page 575
6	41X1108	1	1	2100-sheet tray pick roller	
7	41X1094	1	1	Sensor (2100-sheet tray pick)	<u>"Sensor (2100-sheet tray pick)</u> removal" on page 570
8	41X1683	1	1	2100-sheet tray paper feeder	<u>"2100-sheet tray paper feeder</u> removal" on page 580
9	41X1083	1	1	Sensor (2100-sheet tray pick roller index)	<u>"Sensor (2100-sheet tray pick roller</u> index) removal" on page 578
10	41X1083	1	1	Sensor (2100-sheet tray paper present)	<u>"Sensor (2100-sheet tray paper</u> present) removal" on page 579

# Assembly 38: Optional bins



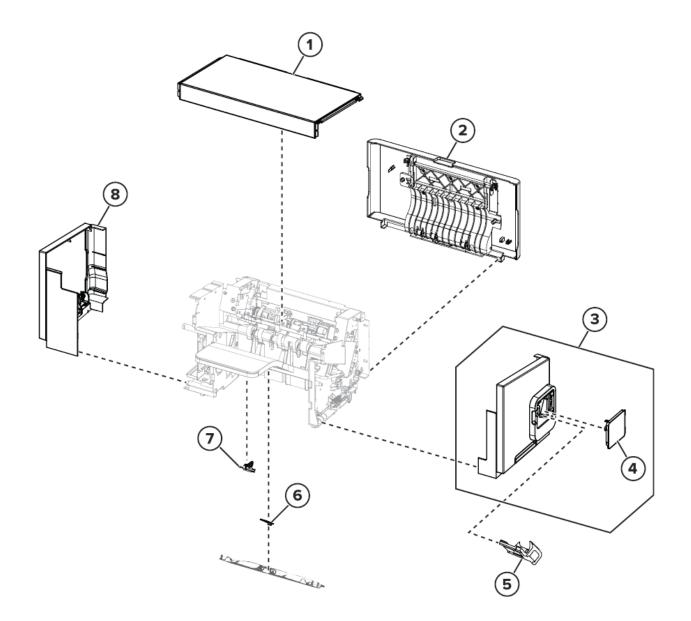
Parts catalog

# **Assembly 38: Optional bins**

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1		1	1	Optional staple, hole punch finisher	<u>"Optional staple, hole punch finisher</u> removal" on page 723
2		1	1	Optional staple finisher	<u>"Optional staple finisher/offset stacker</u> removal" on page 603
3		1	1	Optional offset stacker	<u>"Optional staple finisher/offset stacker</u> removal" on page 603
4		1	1	Optional 4-bin mailbox	<u>"Optional 4-bin mailbox removal" on</u> page 673

Parts catalog

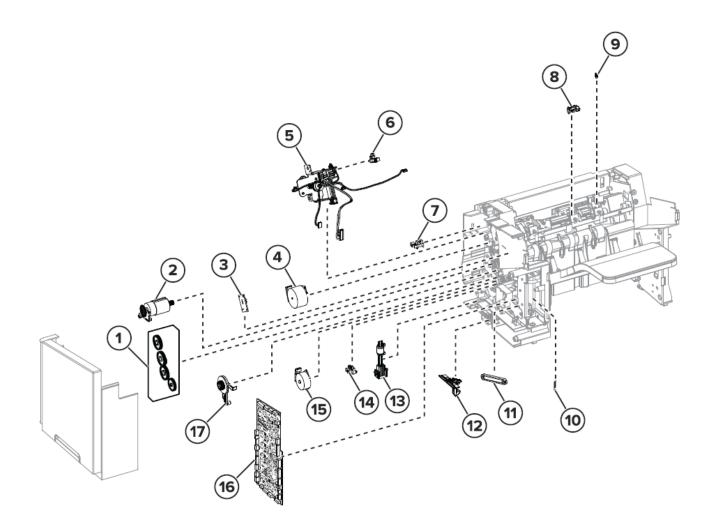
# Assembly 39: Staple finisher 1



Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8222	1	1	Staple finisher top cover	<u>"Staple finisher/offset stacker top cover</u> removal" on page 608
2	41X2169	1	1	Staple finisher rear door	<u>"Staple finisher/offset stacker rear door</u> removal" on page 604
3	41X1698	1	1	Staple finisher right cover	<u>"Stapler right cover removal" on</u> page 664
4	41X1701	1	1	Staple cartridge access door	"Staple cartridge access door removal" on page 666
5	40X7466	1	1	Staple cartridge holder	"Staple cartridge holder removal" on page 729
6	41X1704	1	1	Standard bin LED	"Standard bin LED removal" on page 618
7	41X1238	1	1	Sensor (finisher bin paper present)	<u>"Sensor (staple finisher/offset stacker</u> <u>bin paper present) removal" on</u> <u>page 619</u>
8	41X1715	1	1	Staple finisher left cover	<u>"Staple finisher/offset stacker left cover</u> removal" on page 606

# Assembly 39: Staple finisher 1

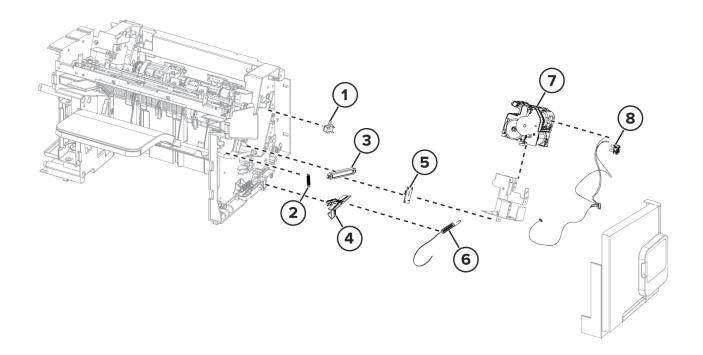
### Assembly 40: Staple finisher 2



# Assembly 40: Staple finisher 2

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2175	1	1	Staple finisher drive gear assembly	<u>"Staple finisher/offset stacker drive gear</u> assembly removal" on page 621
2	41X0529	1	1	Motor (staple finisher transport)	<u>"Motor (staple finisher/offset stacker</u> transport) removal" on page 616
3	41X0802	1	1	Sensor (staple finisher bin full)	<u>"Sensor (staple finisher/offset stacker</u> <u>bin full send) removal" on page 625</u> and <u>"Sensor (staple finisher/offset stacker</u> <u>bin full receive) removal" on page 626</u>
4	40X8213	1	1	Motor (staple finisher paddle)	<u>"Motor (staple finisher/offset stacker</u> paddle) removal" on page 612
5	41X2187	1	1	Staple finisher stack height assembly	<u>"Staple finisher/offset stacker stack</u> height assembly removal" on page 649
6	41X0798	1	1	Sensor (staple finisher stack height)	
7	41X1238	1	1	Sensor (staple finisher rear door interlock)	<u>"Sensor (staple finisher/offset stacker</u> rear door interlock) removal" on page 632
8	41X1238	1	1	Sensor (staple finisher paddle)	<u>"Sensor (staple finisher/offset stacker</u> paddle) removal" on page 638
9	41X2192	1	1	Paddle spring	
10	40X8742	2	1	Staple finisher bin spring	<u>"Staple finisher/offset stacker bin spring</u> removal" on page 632
11	40X8744	2	1	Staple finisher bin link assembly	<u>"Staple finisher/offset stacker bin link</u> assembly removal" on page 633
12	40X8721	2	1	Staple finisher latch	<u>"Staple finisher/offset stacker latch</u> removal" on page 636
13	40X8224	1	1	Staple finisher interface cable	"Staple finisher/offset stacker interface cable removal" on page 612
14	41X0798	1	1	Sensor (staple finisher diverter plunger)	<u>"Sensor (staple finisher/offset stacker</u> diverter plunger) removal" on page 616
15	40X8256	1	1	Motor (staple finisher diverter)	<u>"Motor (staple finisher/offset stacker</u> <u>diverter) removal" on page 615</u>
16	41X2279	1	1	Staple finisher controller board	<u>"Staple finisher/offset stacker controller</u> board removal" on page 610
17	40X8722	1	1	Staple finisher diverter plunger assembly	"Staple finisher/offset stacker diverter plunger assembly removal" on page 620

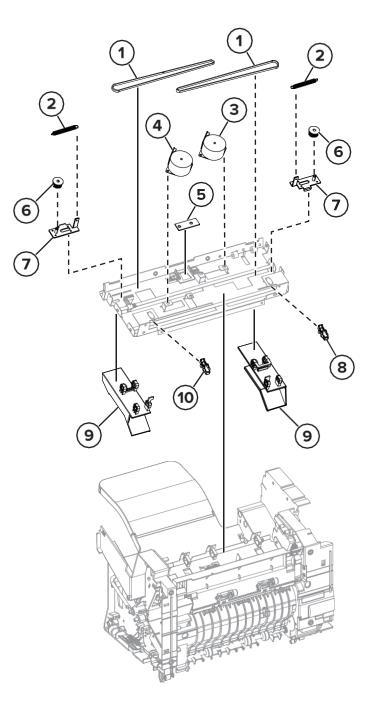
# Assembly 41: Staple finisher 3



# Assembly 41: Staple finisher 3

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8745	1	1	Sensor (staple throat paper present)	<u>"Sensor (staple throat paper present)</u> removal" on page 669
2	40X8742	2	1	Staple finisher bin spring	"Staple finisher/offset stacker bin spring removal" on page 632
3	40X8744	2	1	Staple finisher bin link assembly	"Staple finisher/offset stacker bin link assembly removal" on page 633
4	40X8721	2	1	Staple finisher latch	<u>"Staple finisher/offset stacker latch</u> removal" on page 636
5	41X0802	1	1	Sensor (staple finisher bin full send)	<u>"Sensor (staple finisher/offset stacker</u> bin full send) removal" on page 625
6	40X8226	1	1	Staple finisher spring with string	"Staple finisher/offset stacker spring with string removal" on page 637
7	41X0654	1	1	Staple unit	"Staple unit removal" on page 666
8	41X2198	1	1	Staple cartridge door close limit switch	<u>"Staple cartridge door close limit switch</u> removal" on page 671

# Assembly 42: Staple finisher 4

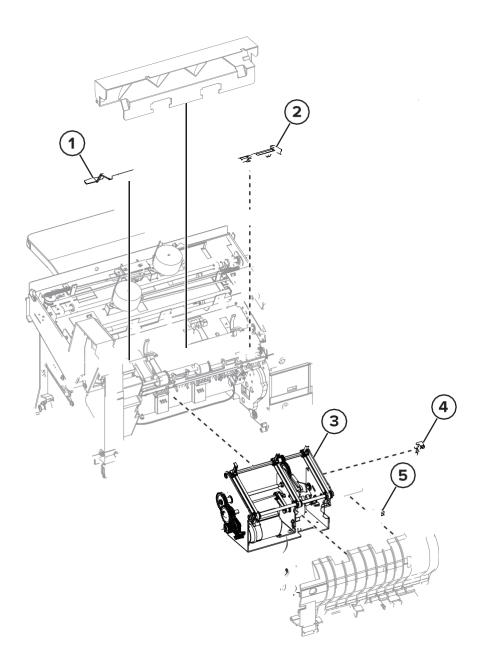


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# Assembly 42: Staple finisher 4

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8212	2	1	Tamper drive belt	<u>"Staple finisher/Offset stacker tamper</u> drive belt removal" on page 640
2	41X1705	2	1	Tamper spring	<u>"Staple finisher/Offset stacker tamper</u> drive belt removal" on page 640
3	40X8211	1	1	Motor (staple finisher right tamper)	"Motor (staple finisher/offset stacker right tamper) removal" on page 638
4	40X8211	1	1	Motor (staple finisher left tamper)	"Motor (staple finisher/offset stacker left tamper) removal" on page 639
5	41X1704	1	1	Staple finisher bin LED	"Staple finisher/offset stacker bin LED removal" on page 645
6	41X0664	2	1	Tamper gear	<u>"Staple finisher/Offset stacker tamper</u> drive belt removal" on page 640
7	41X2196	2	1	Tamper bracket	
8	41X1238	1	1	Sensor (staple finisher left tamper)	"Sensor (staple finisher/offset stacker left tamper) removal" on page 643
9	41X2160	1	1	Tamper aligner	"Staple finisher/offset stacker tamper aligner removal" on page 647
10	41X1238	1	1	Sensor (staple finisher right tamper)	<u>"Sensor (staple finisher/offset stacker</u> right tamper) removal" on page 641

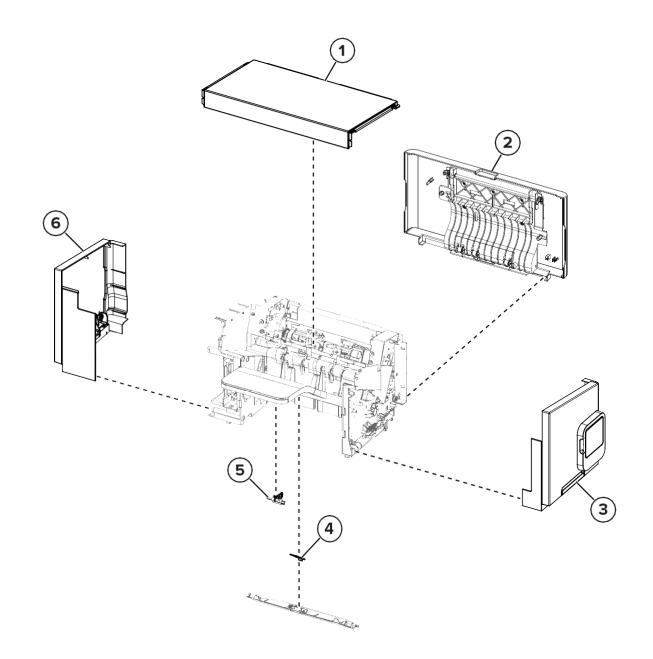
# Assembly 43: Staple finisher 5



# Assembly 43: Staple finisher 5

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2199	1	1	Staple finisher paper stack flap (right)	<u>"Staple finisher/offset stacker paper</u> stack flap removal" on page 651
2	40X8210	1	1	Staple finisher paper stack flap (left)	<u>"Staple finisher/offset stacker paper</u> stack flap removal" on page 651
3	41X2167	1	1	Staple finisher ejector assembly	<u>"Staple finisher/offset stacker ejector</u> assembly removal" on page 657
4	40X8745	1	1	Sensor (staple finisher ejector)	"Sensor (staple finisher/offset stacker ejector) removal" on page 660
5	40X8134	1	1	Sensor (staple finisher pass-through)	"Sensor (staple finisher/offset stacker pass-through) removal" on page 663

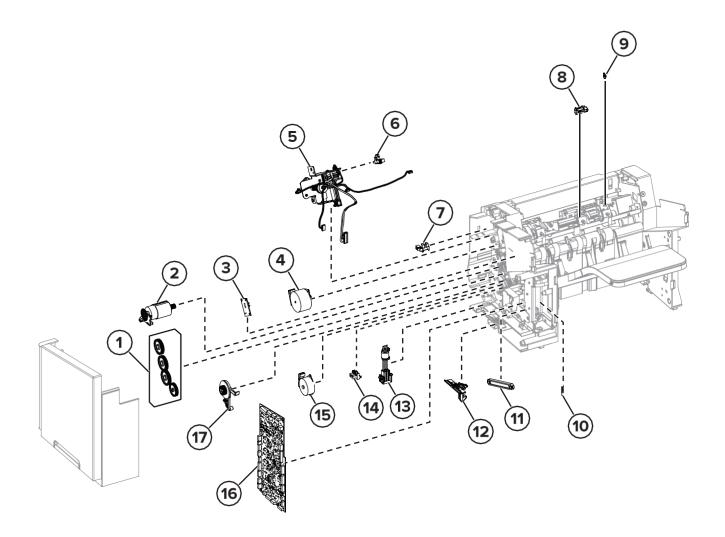
# Assembly 44: Offset stacker 1



Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8222	1	1	Offset stacker top cover	<u>"Staple finisher/offset stacker top cover</u> removal" on page 608
2	41X2169	1	1	Offset stacker rear door	<u>"Staple finisher/offset stacker rear door</u> removal" on page 604
3	41X1716	1	1	Offset stacker right cover	<u>"Stapler right cover removal" on</u> page 664
4	41X1704	1	1	Standard bin LED	<u>"Standard bin LED removal" on</u> page 618
5	41X1238	1	1	Sensor (offset stacker bin paper present)	<u>"Sensor (staple finisher/offset stacker</u> bin paper present) removal" on page 619
6	41X1715	1	1	Offset stacker left cover	"Staple finisher/offset stacker left cover removal" on page 606

### Assembly 44: Offset stacker 1

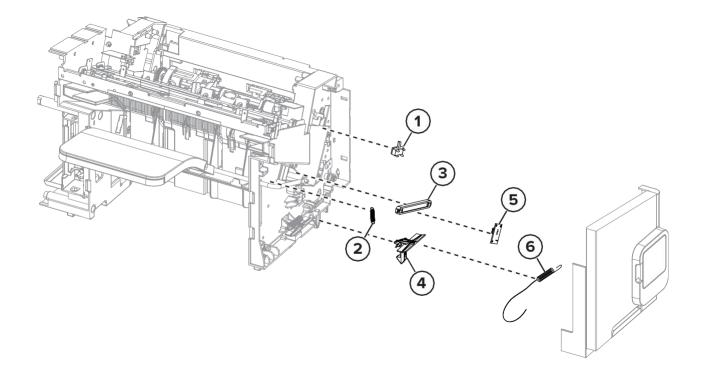
## Assembly 45: Offset stacker 2



## Assembly 45: Offset stacker 2

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2175	1	1	Offset stacker drive gear assembly	<u>"Staple finisher/offset stacker drive gear</u> assembly removal" on page 621
2	41X0529	1	1	Motor (offset stacker transport)	<u>"Motor (staple finisher/offset stacker</u> transport) removal" on page 616
3	41X0802	1	1	Sensor (offset stacker bin full)	<u>"Sensor (staple finisher/offset stacker</u> <u>bin full send) removal" on page 625</u> and <u>"Sensor (staple finisher/offset stacker</u> <u>bin full receive) removal" on page 626</u>
4	40X8213	1	1	Motor (offset stacker paddle)	<u>"Motor (staple finisher/offset stacker</u> paddle) removal" on page 612
5	41X2187	1	1	Offset stacker stack height assembly	<u>"Staple finisher/offset stacker stack</u> height assembly removal" on page 649
6	41X0798	1	1	Sensor (offset stacker stack height)	
7	41X1238	1	1	Sensor (offset stacker rear door interlock)	<u>"Sensor (staple finisher/offset stacker</u> rear door interlock) removal" on page 632
8	41X1238	1	1	Sensor (offset stacker paddle)	<u>"Sensor (staple finisher/offset stacker</u> paddle) removal" on page 638
9	41X2192	1	1	Paddle spring	
10	40X8742	2	1	Offset stacker bin spring	"Staple finisher/offset stacker bin spring removal" on page 632
11	40X8744	2	1	Offset stacker bin link assembly	"Staple finisher/offset stacker bin link assembly removal" on page 633
12	40X8721	2	1	Offset stacker latch	"Staple finisher/offset stacker latch removal" on page 636
13	40X8224	1	1	Offset stacker interface cable	<u>"Staple finisher/offset stacker interface</u> cable removal" on page 612
14	41X0798	1	1	Sensor (offset stacker diverter plunger)	<u>"Sensor (staple finisher/offset stacker</u> diverter plunger) removal" on page 616
15	40X8256	1	1	Motor (offset stacker diverter)	<u>"Motor (staple finisher/offset stacker</u> diverter) removal" on page 615
16	41X2279	1	1	Offset stacker controller board	"Staple finisher/offset stacker controller board removal" on page 610
17	40X8722	1	1	Offset stacker diverter plunger assembly	<u>"Staple finisher/offset stacker diverter</u> <u>plunger assembly removal" on page</u> <u>620</u>

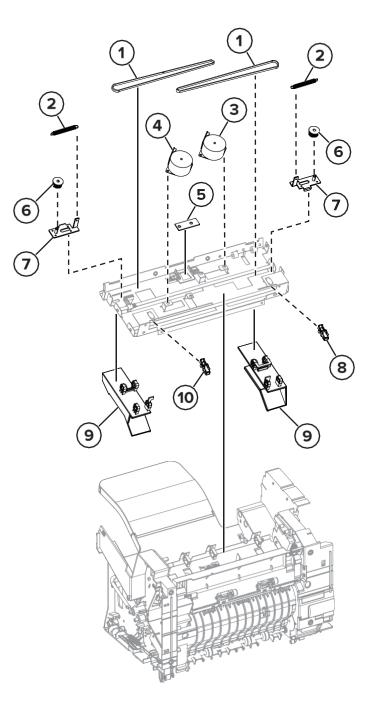
## Assembly 46: Offset stacker 3



## Assembly 46: Offset stacker 3

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8745	1	1	Sensor (staple throat paper present)	<u>"Sensor (staple throat paper present)</u> removal" on page 669
2	40X8742	2	1	Offset stacker bin spring	<u>"Staple finisher/offset stacker bin</u> spring removal" on page 632
3	40X8744	2	1	Offset stacker bin link assembly	"Staple finisher/offset stacker bin link assembly removal" on page 633
4	40X8721	2	1	Offset stacker latch	<u>"Staple finisher/offset stacker latch</u> removal" on page 636
5	41X0802	1	1	Sensor (offset stacker bin full send)	<u>"Sensor (staple finisher/offset stacker</u> bin full send) removal" on page 625
6	40X8226	1	1	Offset stacker spring with string	"Staple finisher/offset stacker spring with string removal" on page 637

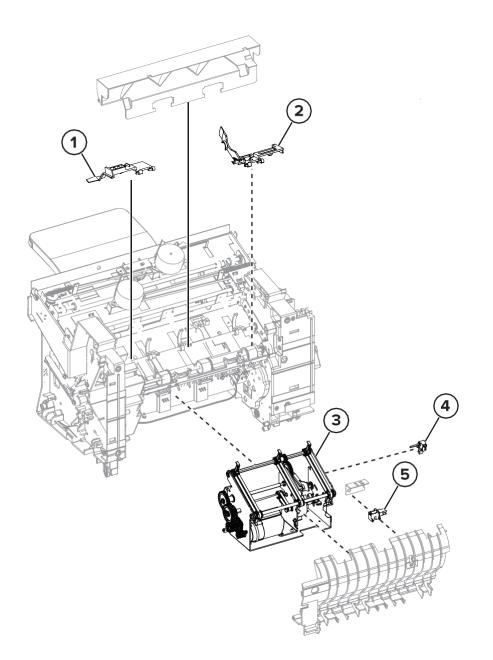
## Assembly 47: Offset stacker 4



## Assembly 47: Offset stacker 4

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8212	1	1	Offset stacker tamper drive belt	<u>"Staple finisher/Offset stacker tamper</u> drive belt removal" on page 640
2	41X1705	1	1	Offset stacker tamper spring	<u>"Staple finisher/Offset stacker tamper</u> drive belt removal" on page 640
3	40X8211	1	1	Motor (offset stacker right tamper)	<u>"Motor (staple finisher/offset stacker</u> right tamper) removal" on page 638
4	40X8211	1	1	Motor (offset stacker left tamper)	<u>"Motor (staple finisher/offset stacker left tamper) removal" on page 639</u>
5	41X1704	1	1	Offset stacker bin LED	"Staple finisher/offset stacker bin LED removal" on page 645
6	41X0664	1	1	Offset stacker tamper gear	<u>"Staple finisher/Offset stacker tamper</u> drive belt removal" on page 640
7	41X2196	1	1	Offset stacker tamper bracket	<u>"Staple finisher/Offset stacker tamper</u> drive belt removal" on page 640
8	41X1238	1	1	Sensor (offset stacker left tamper)	<u>"Sensor (staple finisher/offset stacker</u> <u>left tamper) removal" on page 643</u>
9	41X2160	1	1	Offset stacker tamper aligner	"Staple finisher/offset stacker tamper aligner removal" on page 647
10	41X1238	1	1	Sensor (offset stacker right tamper)	"Sensor (staple finisher/offset stacker right tamper) removal" on page 641

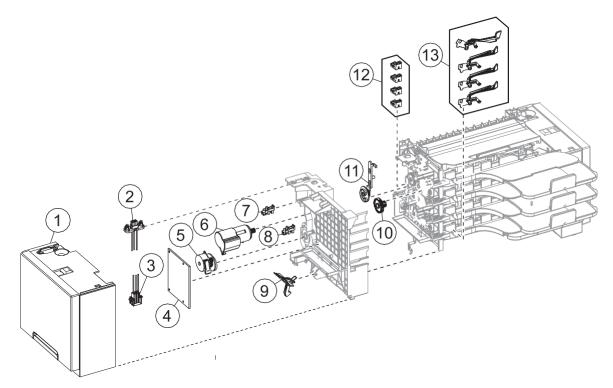
## Assembly 48: Offset stacker 5



## Assembly 48: Offset stacker 5

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2199	1	1	Offset stacker paper stack flap (right)	<u>"Staple finisher/offset stacker paper</u> stack flap removal" on page 651
2	40X8210	1	1	Offset stacker paper stack flap (left)	<u>"Staple finisher/offset stacker paper</u> stack flap removal" on page 651
3	41X2167	1	1	Offset stacker ejector assembly	<u>"Staple finisher/offset stacker ejector</u> assembly removal" on page 657
4	40X8745	1	1	Sensor (offset stacker ejector)	"Sensor (staple finisher/offset stacker ejector) removal" on page 660
5	40X8134	1	1	Sensor (offset stacker pass-through)	"Sensor (staple finisher/offset stacker pass-through) removal" on page 663

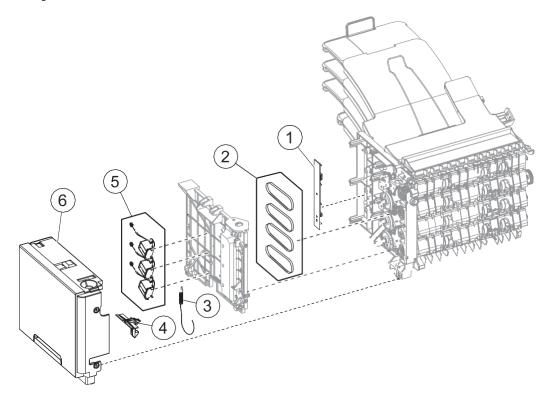
## Assembly 49: Mailbox 1



## Assembly 49: Mailbox 1

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8246	1	1	Mailbox left cover	<u>"Mailbox left cover removal" on</u> page 679
2	40X8254	1	1	Mailbox upper interface cable	<u>"Mailbox upper interface cable</u> removal" on page 697
3	40X8253	1	1	Mailbox lower interface cable	<u>"Mailbox lower interface cable</u> removal" on page 695
4	40X8244	1	1	Mailbox controller board	<u>"Mailbox controller board removal" on page 692</u>
5	40X8256	1	1	Motor (mailbox diverter)	<u>"Motor (mailbox diverter) removal" on page 697</u>
6	41X0529	1	1	Motor (mailbox transport)	<u>"Motor (mailbox transport) removal"</u> on page 687
7	40X7592	1	1	Sensor (mailbox rear door interlock)	<u>"Sensor (mailbox rear door interlock)</u> <u>removal" on page 683</u>
8	40X7592	1	1	Sensor (mailbox diverter plunger)	<u>"Sensor (mailbox diverter plunger)</u> removal" on page 693
9	40X8721	2	1	Mailbox latch	"Mailbox latch removal" on page 682
10	40X8726	1	1	Mailbox transport drive gear	<u>"Mailboxtransportdrivegearremoval"</u> on page 683
11	40X8722	1	1	Mailbox diverter plunger assembly	<u>"Mailbox diverter plunger assembly</u> removal" on page 688
12	41X0701	4	1	Sensor (mailbox bin full)	<u>"Sensor (mailbox bin full) removal" on page 700</u>
13	40X8247	4	1	Mailbox bin full flag	<u>"Mailbox bin full flag removal" on</u> page 699
NS	40X8500	1	1	Optional bin guide bar	

## Assembly 50: Mailbox 2



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## Assembly 50: Mailbox 2

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8250	1	1	Mailbox bin LED assembly	<u>"Mailbox bin LED assembly removal" on page 705</u>
2	40X8249	4	1	Mailbox belt	"Mailbox belt removal" on page 703
3	40X8252	1	1	Mailbox spring with string	"Mailbox spring with string removal" on page 678
4	40X8721	2	1	Mailbox latch	"Mailbox latch removal" on page 682
5	40X8251	3	1	Mailbox solenoid	<u>"Mailbox solenoid removal" on</u> page 680
6	40X8243	1	1	Mailbox right cover	"Mailbox right cover removal" on page 676

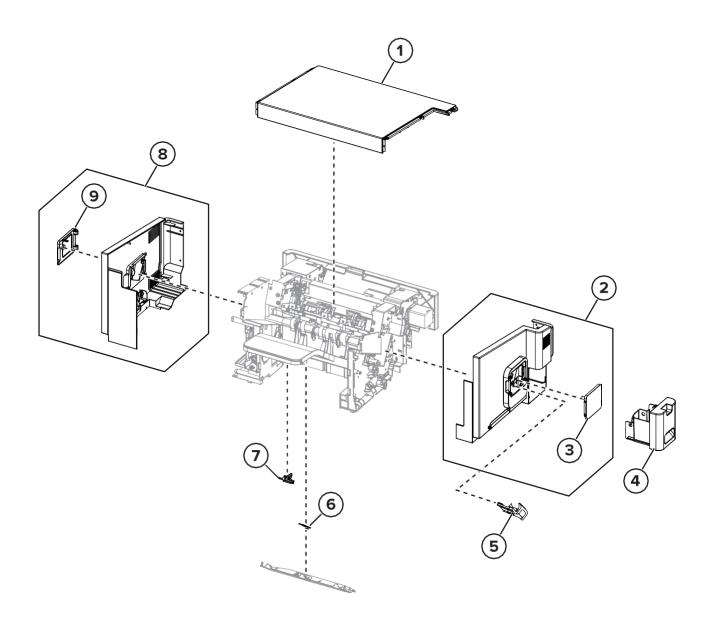
## Assembly 51: Mailbox 3 1 2 5 6 4 TO CONTRACTOR 7 3 TO OT A COLORA

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# Assembly 51: Mailbox 3

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8196	1	1	Mailbox top cover	<u>"Mailbox top cover removal" on</u> page 673
2	40X8720	1	1	Mailbox top bin cover with bail	<u>"Mailbox top bin cover with bail</u> removal" on page 677
3	40X8719	1	1	Sensor (mailbox pass-through)	<u>"Sensor (mailbox pass-through)</u> removal" on page 718
4	40X8725	1	1	Mailbox top diverter spring	<u>"Mailbox top diverter spring removal"</u> on page 714
5	40X8723	1	1	Mailbox top diverter	<u>"Mailbox top diverter removal" on</u> page 708
6	40X8724	3	1	Mailbox middle diverter	<u>"Mailbox middle diverter removal" on</u> page 713
7	41X1870	1	1	Mailbox rear door	<u>"Mailbox rear door removal" on</u> page 674

## Assembly 52: Staple, hole punch finisher 1



## Assembly 52: Staple, hole punch finisher 1

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8547	1	1	Staple, hole punch finisher top cover	<u>"Staple, hole punch finisher top</u> cover removal" on page 728
2	41X1719	1	1	Staple, hole punch finisher right cover	<u>"Staple, hole punch finisher right</u> cover removal" on page 726
3	41X1701	1	1	Staple cartridge access door	<u>"Staple cartridge access door</u> removal" on page 666
4	41X2202	1	1	Hole punch box	
5	40X7466	1	1	Staple cartridge holder	"Staple cartridge holder removal" on page 729
6	41X1704	1	1	Standard bin LED	
7	41X0724	1	1	Sensor (SHPF bin paper present)	
8	41X1718	1	1	Staple, hole punch finisher left cover	<u>"Staple, hole punch finisher left</u> cover removal" on page 724
9	41X2166	1	1	Left staple cartridge access door	<u>"Left staple cartridge access door</u> <u>removal" on page 724</u>

## e

## Assembly 53: Staple, hole punch finisher 2

	•	•		•	
Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8212	2	1	Tamper drive belt	
2	41X1705	2	1	Tamper spring	
3	40X8211	1	1	Motor (SHPF right tamper)	
4	40X8211	1	1	Motor (SHPF left tamper)	
5	41X1704	1	1	Staple, hole punch finisher bin LED	
6	41X0664	2	1	Tamper gear	
7	41X2196	2	1	Tamper bracket	
8	41X1238	1	1	Sensor (SHPF left tamper)	
9	41X2160	1	1	Tamper aligner	

Sensor (SHPF right tamper)

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## Assembly 53: Staple, hole punch finisher 2

10

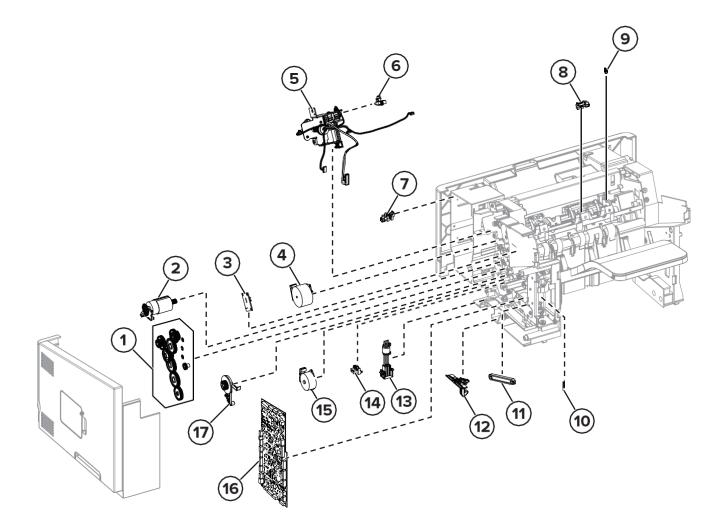
41X1238

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Parts catalog

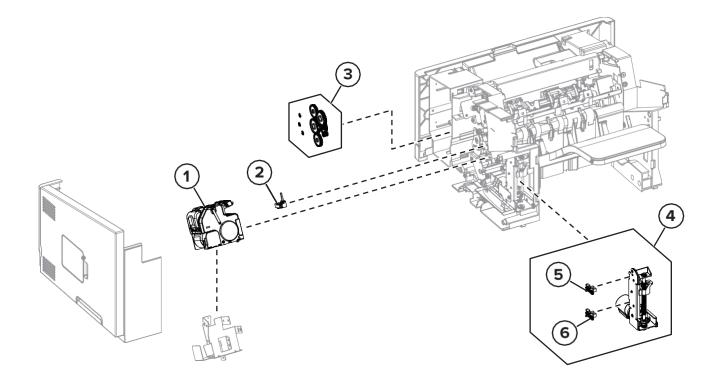
## Assembly 54: Staple, hole punch finisher 3



## Assembly 54: Staple, hole punch finisher 3

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2175	1	1	SHPF drive gear assembly	<u>"SHPF drive gear assembly removal"</u> on page 741
2	41X0529	1	1	Motor (SHPF transport)	<u>"Motor (SHPF transport) removal" on</u> page 738
3	41X0802	1	1	Sensor (SHPF bin full)	<u>"Sensor (SHPF bin full send) removal"</u> on page 758 and <u>"Sensor (SHPF bin</u> full receive) removal" on page 759
4	40X8213	1	1	Motor (SHPF paddle)	"Motor (SHPF paddle) removal" on page 731
5	41X2187	1	1	SHPF stack height assembly	
6	41X0798	1	1	Sensor (SHPF stack height)	
7	41X1238	1	1	Sensor (SHPF rear door interlock)	<u>"Sensor (SHPF rear door interlock)</u> removal" on page 743
8	41X1238	1	1	Sensor (SHPF paddle)	<u>"Sensor (SHPF paddle) removal" on</u> page 761
9	41X2192	1	1	Paddle spring	
10	41X1710	2	1	SHPF bin link tension spring	<u>"SHPF bin link tension spring</u> removal" on page 756
11	40X8744	2	1	SHPF bin link assembly	"SHPF bin link assembly removal" on page 757
12	40X8721	2	1	Staple, hole punch finisher latch	<u>"Staple, hole punch finisher latch</u> removal" on page 761
13	40X8224	1	1	Staple, hole punch finisher interface cable	"Staple, hole punch finisher interface cable removal" on page 736
14	41X0798	1	1	Sensor (SHPF diverter plunger)	
15	40x8256	1	1	Motor (SHPF diverter plunger)	<u>"Motor (SHPF diverter plunger)</u> removal" on page 737
16	41X1708	1	1	Staple, hole punch finisher controller board	<u>"Staple, hole punch finisher controller</u> board removal" on page 730
17	40X8722	1	1	SHPF diverter plunger assembly	"SHPF diverter plunger assembly removal" on page 740

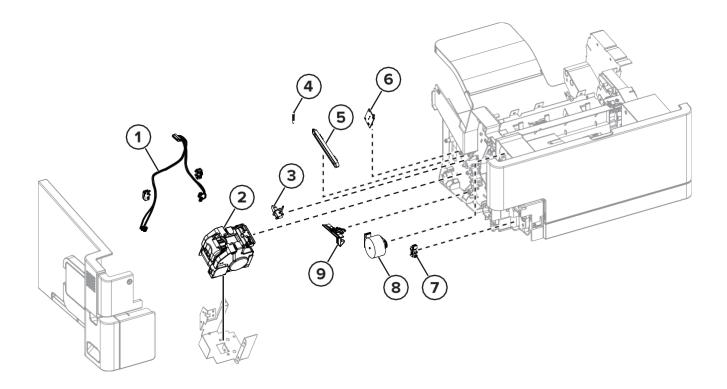
## Assembly 55: Staple, hole punch finisher 4



## Assembly 55: Staple, hole punch finisher 4

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X0654	1	1	Left staple unit	<u>"Left staple unit removal" on page</u> 734
2	40X8745	2	1	Sensor (SHPF staple throat paper present)	<u>"Left staple unit removal" on page</u> 734
3	41X2175	1	1	SHPF drive gear assembly	"Punch drive gears removal" on page 745
4	41X1709	1	1	Staple, hole punch finisher elevator drive	<u>"Staple, hole punch finisher elevator</u> drive removal" on page 747
5	41X0709	1	1	Sensor (SHPF elevator, top)	<u>"Staple, hole punch finisher elevator</u> drive removal" on page 747
6	41X0709	1	1	Sensor (SHPF elevator, bottom)	<u>"Staple, hole punch finisher elevator</u> drive removal" on page 747

## Assembly 56: Staple, hole punch finisher 5



## Assembly 56: Staple, hole punch finisher 5

Asm-index	Manufacture P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1702	1	1	SHPF staple cartridge door close limit switch	<u>"SHPF staple cartridge door close limit</u> switch removal" on page 731
2	41X0654	1	1	Right staple unit	"Right staple unit removal" on page 751
3	40X8745	2	1	Sensor (SHPF staple throat paper present)	<u>"Sensor (SHPF staple throat paper</u> present) removal" on page 754
4	40X8742	2	1	SHPF bin link tension spring	<u>"SHPF bin link tension spring removal"</u> on page 756
5	40X8744	2	1	SHPF bin link assembly	"SHPF bin link assembly removal" on page 757
6	41X0802	1	1	Sensor (bin full)	<u>"Sensor (SHPF bin full send) removal"</u> on page 758 and <u>"Sensor (SHPF bin full</u> receive) removal" on page 759
7	41X1238	1	1	Sensor (hole punch box present)	<u>"Sensor (hole punch box present)</u> removal" on page 753
8	41X2178	1	1	Motor (HPU carriage)	<u>"Motor (HPU carriage) removal" on</u> page 751
9	40X8721	2	1	Staple, hole punch finisher latch	<u>"Staple, hole punch finisher latch</u> removal" on page 761

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## **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.	760 (MX-B557F) 960 (MX-B707F)
Сору	The product is generating hard-copy output from hard-copy original documents.	820 (MX-B557F) 1020 (MX-B707F)
Scan	The product is scanning hard-copy documents.	140 (MX-B557F, MX-B707F)
Ready	The product is waiting for a print job.	Higher power usage: 120 (MX-B557F, MX-B707F) Lower power usage: 70 (MX-B557F, MX-B707F)
Sleep Mode	The product is in a high-level energy-saving mode.	16 (MX-B557F, MX-B707F)
Hibernate	The product is in a low-level energy-saving mode.	0.3 (MX-B557F, MX-B707F)
Off	The product is plugged into an electrical outlet, but the power switch is turned off.	0.2 (MX-B557F, MX-B707F)

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 without notice.

#### 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):

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
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The amount of time the printer waits after a job is printed before it enters Hibernate mode can be modified between one hour and one month.

#### Off mode

If this product has an off mode which still consumes a small amount of power, then to completely stop product power consumption, disconnect the power supply cord from the electrical outlet.

#### Total energy usage

It is sometimes helpful to calculate the total product energy usage. Since power consumption claims are provided in power units of Watts, the power consumption should be multiplied by the time the product spends in each mode in order to calculate energy usage. The total product energy usage is the sum of each mode's energy usage.

### Selecting a location for the printer

- Leave enough room to open trays, covers, and doors and to install hardware options.
- Set up the printer near an electrical outlet.

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

**CAUTION—SHOCK HAZARD:** To avoid the risk of electrical shock, do not place or use this product near water or wet locations.

- Make sure that airflow in the room meets the latest revision of the ASHRAE 62 standard or the CEN Technical Committee 156 standard.
- Provide a flat, sturdy, and stable surface.
- Keep the printer:
  - Clean, dry, and free of dust
  - Away from stray staples and paper clips
  - Away from the direct airflow of air conditioners, heaters, or ventilators
  - Free from direct sunlight and humidity extremes
- Observe the recommended temperatures and avoid fluctuations.

Ambient temperature	10 to 32.2°C (50 to 90°F)
Storage temperature	-40 to 43.3°C (-40 to 110°F)

**Printer specifications** 

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• Allow the following recommended amount of space around the printer for proper ventilation:



1	Тор	152 mm (6 in.)
2	Rear	152 mm (6 in.)
3	Right side	152 mm (6 in.)
4	Front	406 mm (16 in.)
5	Left side	152 mm (6 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	55 (MX-B557F) 56 (MX-B707F)
Scanning	57 (MX-B557F, MX-B707F)
Copying	55 (MX-B557F) 56 (MX-B707F)
Ready	30 (MX-B557F) 31 (MX-B707F)

Printer specifications

Values are subject to change without notice.

## **Temperature information**

Operating temperature and relative humidity	10 to 32.2°C (50 to 90°F) and 15 to 80% RH
Printer / cartridge / imaging unit long- term storage <sup>1</sup>	15.3 to 32.2°C (60 to 90°F) and 8 to 15% RH Maximum wet bulb temperature: 22.8°C (73°F)
Printer / cartridge / imaging unit short-term shipping	-40 to 43.3°C (-40 to 110°F)
<sup>1</sup> 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.

<sup>2</sup> Wet-bulb temperature is determined by the air temperature and the relative humidity.

## Enabling the security reset jumper

The security reset jumper can reset a printer that is locked due to a forgotten password or lost network connectivity.

#### Notes:

- Resetting the printer deletes all security settings.
- Before changing the security settings, ask for permission from your administrator.
- 1 Turn off the printer.
- **2** Access the controller board.
- **3** Move the jumper to cover the middle and exposed prongs.

Note: The small yellow jumper is located beside a lock icon on the controller board.

**4** Turn on the printer.

#### Invalidating the effects of a jumper reset

- 1 From the Embedded Web Server, click Settings > Security > Miscellaneous Security Settings.
- 2 From the Security Reset Jumper menu, select **No Effect**.

**Warning:** This setting disables access to the security menus of a locked printer. To regain access to the menus, replace the controller board.

#### 3 Click Submit.

#### Notes:

- Use a cable lock to secure the controller board and prevent a malicious reset.
- For multifunction products, when the controller board is replaced, the security settings are lost and the LDAP configuration and Copy function are no longer protected.

## **Printer skew specifications**

#### Abnormal skew printer correction

- 1 The repair operator should evaluate the left edge of the paper to determine if the aligner is properly set. If the left vertical line is with the defined limit, parallel to the edge of the paper, the aligner is correct and properly set. If the left edge vertical line is not within the defined limit spec the repair operator can adjust the aligner at the repair station.
- 2 The repair operator should evaluate the horizontal line at the top edge of the page for potential LSU induced skew. If the horizontal line does not fall within the defined limit or spec, then it is considered skewed and the printhead must be adjusted. See <u>"Polygon printhead mechanical registration adjustment" on page 435</u>.

	Side 1	Side 2
Print sequence through printer	2nd	1st
16 lb-to-24 lb	+/-0.007 mm/mm	+/-0.005 mm/mm
All Other Papers	+/-0.010 mm/mm	+/-0.005 mm/mm
Card Stock	+/-0.007 mm/mm	+/-0.007 mm/mm
Paper, dual-Web paper labels	+/-0.010 mm/mm	+/-0.010 mm/mm
Vinyl, Polyester labels (less than or equal 92# liner)	+/-0.010 mm/mm	+/-0.010 mm/mm

#### **Print registration**

Initial adjustment (adjustable in increments of T=0.3mm, B-0.5mm, R and L=0.2mm):

- Left print position accuracy (scanning direction): +/-0.5mm start on scan
- Top print position accuracy (feeding direction): +/-0.5 mm start on scan
- Horizontal page width accuracy: +/-0.5mm mirror motor
- Vertical page length accuracy: +/-0.5mm drive motor

#### Print position error

The print position error can be measured at any point in the printable area using core media papers:

- Vertical (process): +/-0.7mm
- Horizontal (magnification): +/-0.7mm

7464, 7465

## **Options and features**

## **Available internal options**

- Flash memory
- Font cards
- Firmware cards
  - Forms and Bar Code
  - PRESCRIBE
  - IPDS
- Printer hard disk
- Internal solutions port
  - Parallel 1284-B Interface Card
  - RS-232C Serial Interface Card
  - Fiber Interface Card
  - N8370 802.11b/g/n Wireless Print Server Interface Card

## **Optional trays supported**

- 550-sheet tray
- 550-sheet lockable tray
- 2100-sheet tray

## **Optional bins supported**

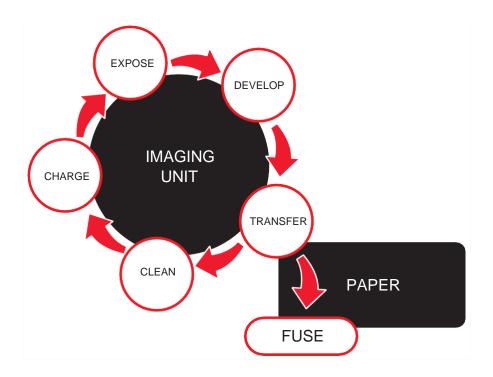
- 4-bin mailbox
- Staple finisher
- Staple, hole punch finisher
- Offset stacker

7464, 7465

## **Theory of operation**

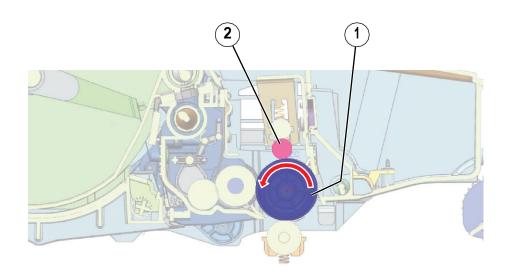
## **Print cycle operation**

#### Flowchart



#### Electrophotographic (EP) process

Charge

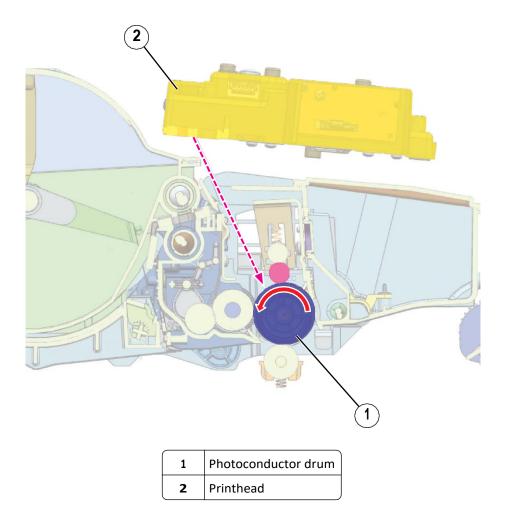


Theory of operation **927** 

1	Photoconductor drum
2	Charge roller

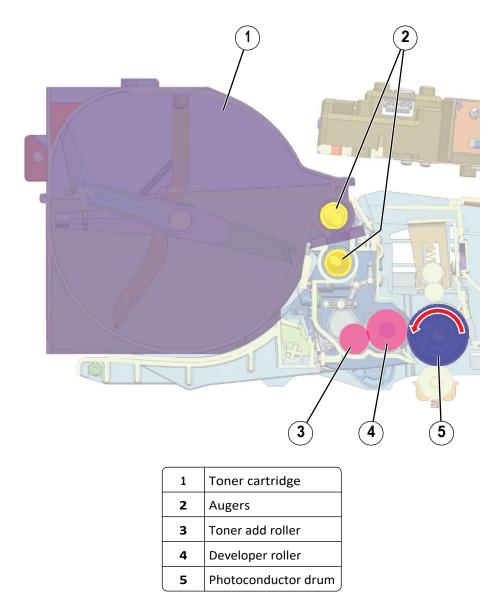
A uniform negative electrical charge is applied by the charge roller to the surface of the photoconductor drum. The photoconductive properties of the surface material allow it to hold the charge as long as it is not exposed to light.

#### Expose



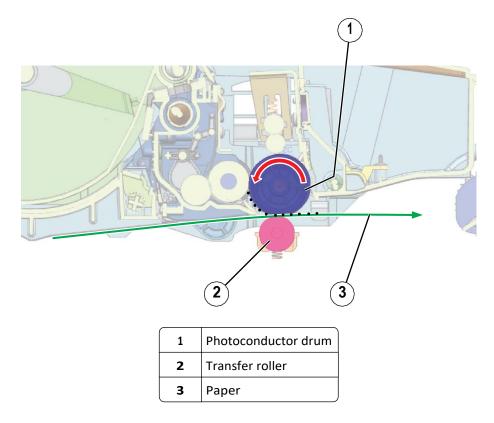
The printhead emits the light that contacts the surface of the photoconductor drum. The light turns on or off coinciding with the digital latent image. The light causes areas of the photoconductor drum surface to lose charge, resulting in a relative opposite polarity.

#### Develop



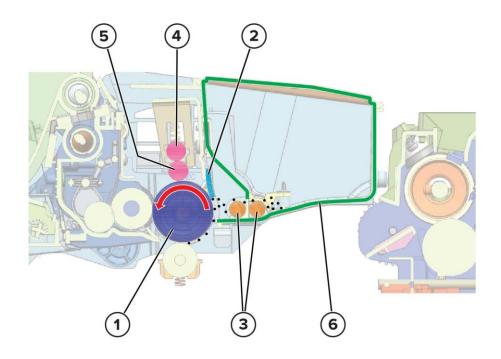
The developer roller applies the toner from the toner cartridge to the photoconductor drum. The difference in charge cause the toner particles to attract to the photoconductor drum areas which were exposed to light.

#### Transfer



The developed image transfers from the photoconductor drum to the paper. The polarity of the transfer roller attracts the toner to the paper surface.

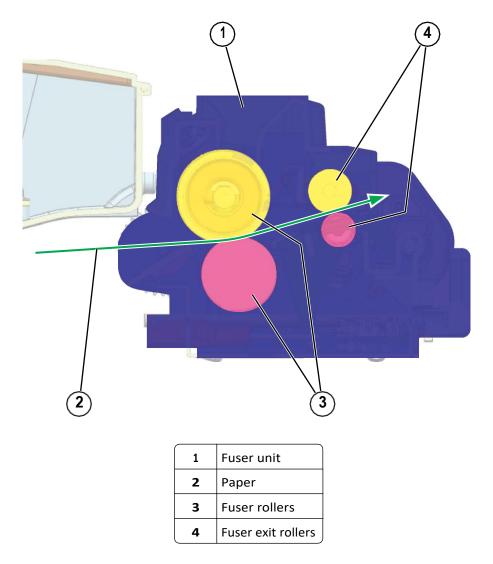
#### Clean



1	Photoconductor drum	
2	Cleaning blade	
3	Augers	
4	Cleaning roller	
5	Charge roller	
6	6 Waste toner chamber	

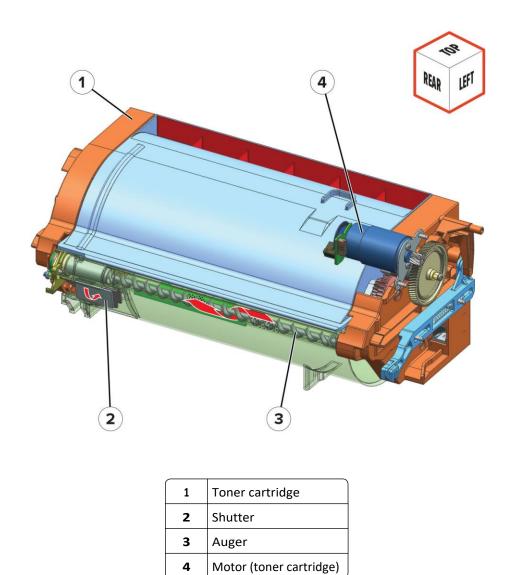
The cleaning blade removes the toner residue from the photoconductor drum. The cleaning roller removes the toner residue from the charge roller. The cycle (charge, expose, develop, transfer, clean) repeats until the whole image is transferred to the paper.

#### Fuse



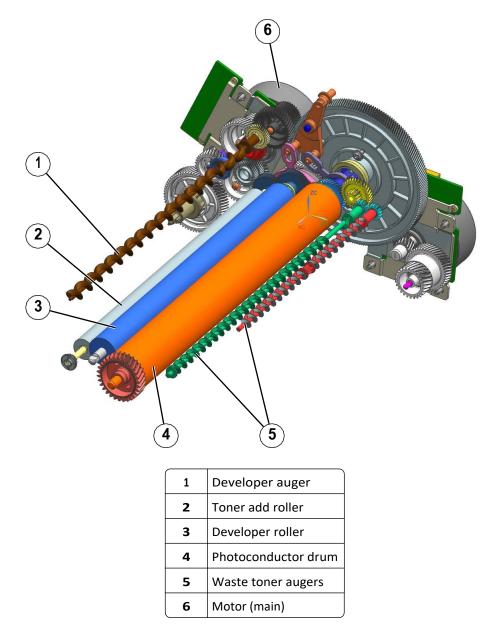
Even if the toner image is already on the paper, the toner particles are not yet permanently bonded to the surface. For the final part of printing, the paper is transported to the fuser where heat and pressure are applied to it. As a result, the toner particles melt and permanently fuse with the paper, completing the print process. The cycle repeats for the succeeding pages.

### Fresh toner delivery drive



The toner cartridge supplies fresh toner to the imaging unit. When the cartridge is installed, the shutter opens to enable toner delivery. Inside the cartridge, paddles agitate the toner to ensure proper circulation. The auger directs the toner particles toward the toner outlet. The paddles and auger are driven by the motor (toner cartridge).

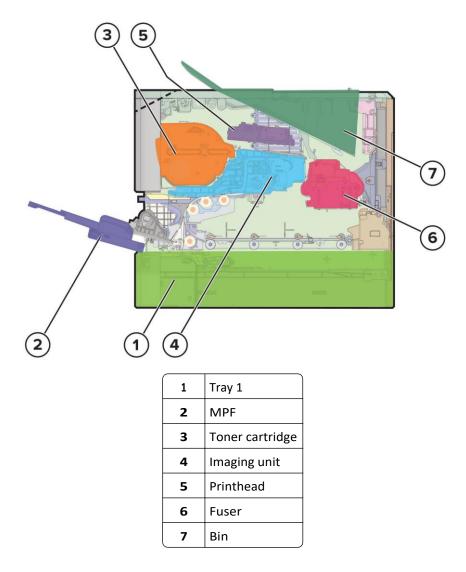
#### **Main drive**



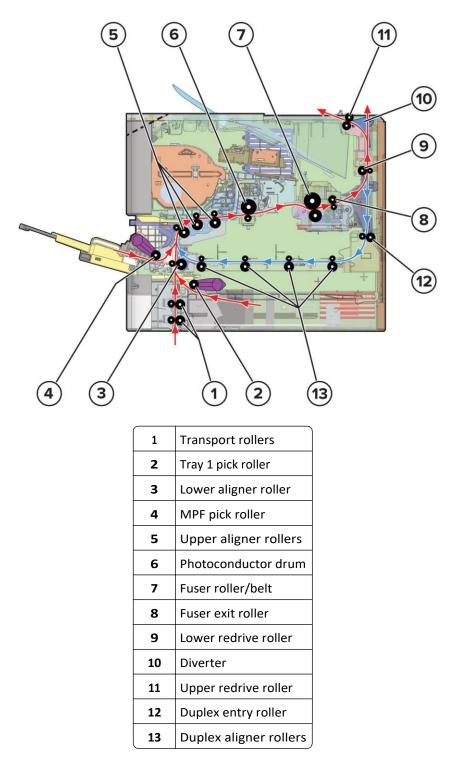
Inside the imaging unit, the developer roller applies the toner to the photoconductor drum surface. The developer auger and toner add roller ensure that the proper amount of toner is supplied. Inside the waste toner chamber, waste toner augers collect the waste toner. These augers also maximize the waste toner container capacity. The augers, rollers, and photoconductor drum are driven by the motor (main).

# **Printer operation**

### **Printer sections**



#### Printer paper path rollers

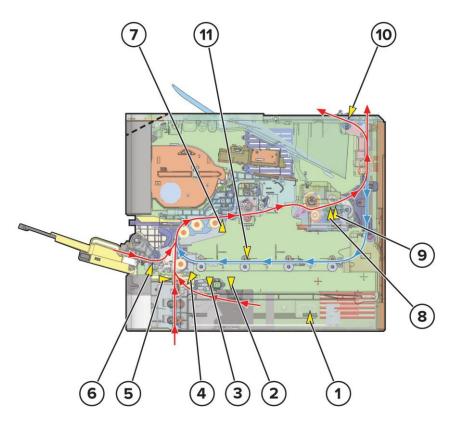


Paper is fed from tray 1, MPF, or optional trays.

By default, paper will travel along the standard paper path (in red). For print jobs on the opposite page of the paper, paper will reenter the printer following the duplex paper path (in blue).

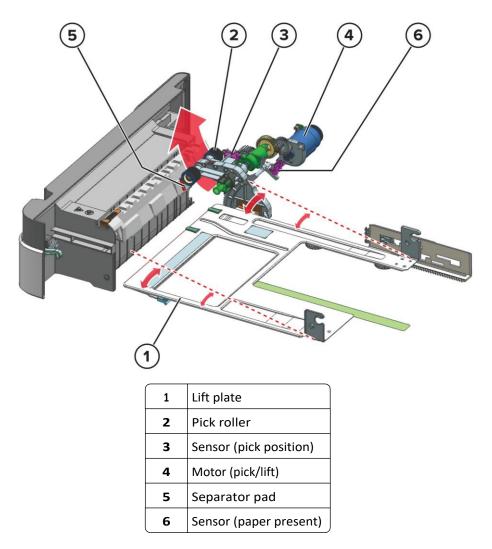
When the print job is done, paper exits the printer into the bin or goes up to the next optional bin.

# Printer paper path sensors



#	Sensor	Functions
1	Sensor (paper size)	Detects the position of paper guides for determining size.
2	Sensor (tray 1 paper present)	Detects the presence or absence of paper on the tray.
3	Sensor (pick position)	Detects if the pick roller is in position to pick.
4	Sensor (pick)	Detects the paper as it is picked and fed to the printer.
5	Sensor (tray 1 pass-through)	Detects the paper fed from optional trays as it enters the printer.
6	Sensor (MPF paper present)	Detects the presence or absence of paper on the MPF tray.
7	Sensor (input)	Detects the paper as it passes the transfer roller.
8	Sensor (fuser exit)	Detects the paper as it passes the fuser.
9	Sensor (narrow media)	Detects if the paper width is narrow.
	<b>Note:</b> This part is found in hot roll fusers only.	
10	Sensor (exit)	Detects the paper as it exits onto the bin.
11	Sensor (duplex path)	Detects the paper as it travels the duplex paper path.

### Tray pick and lift drive



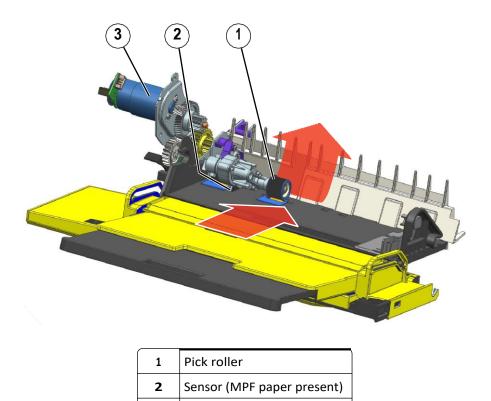
Paper is lifted by the lift plate until the sensor (pick position) is triggered. The motor (pick/lift) starts, and then enables the pick roller to feed the paper into the printer.

**Note:** The motor (pick/lift) also drives the lift plate when rotating in reverse.

To avoid multi-sheet picking, the friction from the separator pad prevents the extra paper from entering the printer.

The sensor (paper present) detects if the tray is empty.

# MPF pick drive



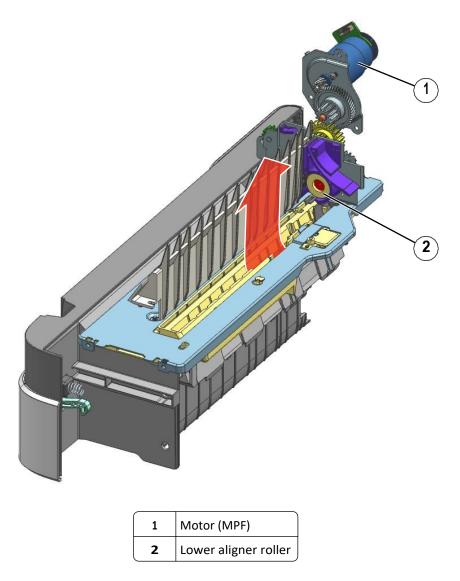
The MPF pick roller feeds the paper into the printer.

The motor (MPF) controls the pick roller. The sensor (MPF paper present) detects if the MPF tray is empty.

Motor (MPF)

3

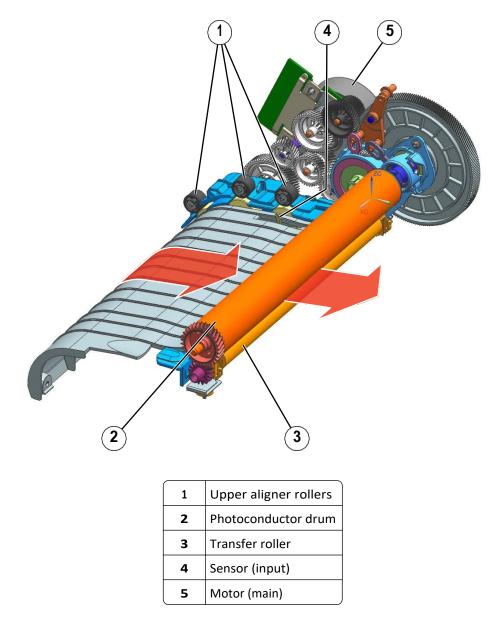
### Lower transport drive



The motor (MPF) also drives the lower aligner roller.

The roller receives the paper fed from the standard tray or the optional trays.

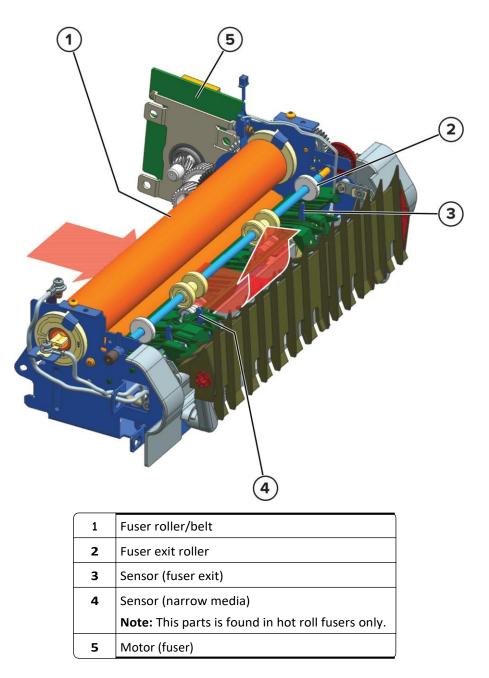
#### **Main drive**



The paper is aligned to its reference edge by the aligner rollers. As the paper is transported by the aligner rollers to the transfer roller, it is detected by the sensor (input).

The upper aligner roller, photoconductor drum, and transfer roller are driven by the motor (main).

#### **Fuser drive**

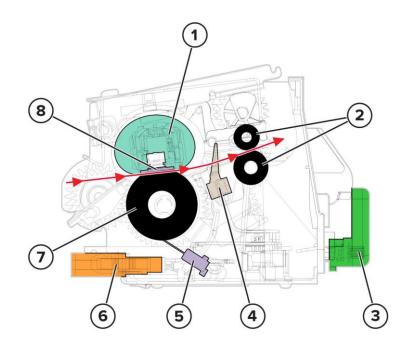


As the paper passes the fuser roller, heat and pressure are applied to permanently bond the toner to the paper.

The fuser exit roller transports the paper to the exit path. The sensor (fuser exit) detects the paper. The sensor (narrow media) is triggered if the paper is narrow.

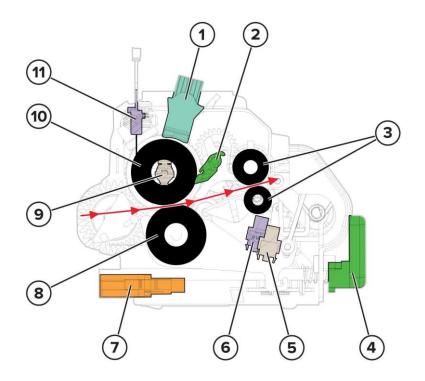
The motor (fuser) drives the fuser roller and fuser exit roller.

### **Fuser components**



### Belt fuser components

#	Part	Function
1	Hot belt	Applies heat to the paper.
2	2 Fuser exit rollers Transports the paper out of the fuser.	
3	Knob Locks or unlocks the fuser.	
4	4 Sensor (fuser exit) Detects the paper passing the fuser.	
5	5 Thermistor Detects the temperature of the fuser.	
6	<b>6</b> Connector Automatically connects the fuser to the printer when inserting	
7 Pressure roller Applies pressure to the paper.		Applies pressure to the paper.
8 Heater bar Supplies heat to the fusing process.		Supplies heat to the fusing process.

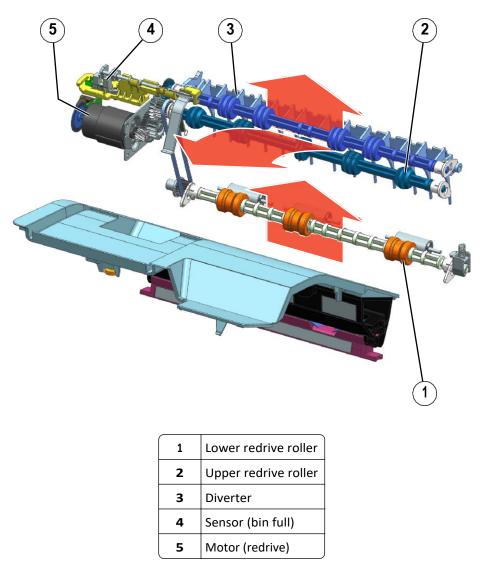


### Hot roll fuser components

#	Part	Function
1	Fuser wiper	Cleans the roller.
2	Detack finger	Separates the paper from the roller.
3	Fuser exit rollers	Transports the paper out of the fuser.
4	Кпоb	Locks or unlocks the fuser.
5	Sensor (narrow media)	Detects paper with narrow width.
6	Sensor (fuser exit)	Detects the paper passing the fuser.
7	Connector	Automatically connects the fuser to the printer after inserting the fuser.
8	Pressure roller	Applies pressure to the paper.
9	Heater lamp	Supplies heat to the fusing process.
10	Hot roller Applies heat to the paper.	
11	Thermistor	Detects the temperature of the fuser.

### Upper redrive drive

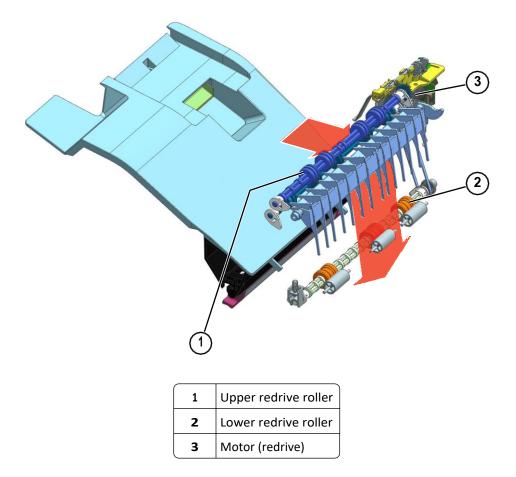
#### Exit path



Paper is ejected by the upper redrive rollers to the bin. By default, the diverter will direct the paper toward the bin. If a plunger changes the position of the diverter, then the paper will move upwards to the optional bin.

The redrive rollers are controlled by the motor (redrive). The sensor (bin full) senses if the bin is already full.

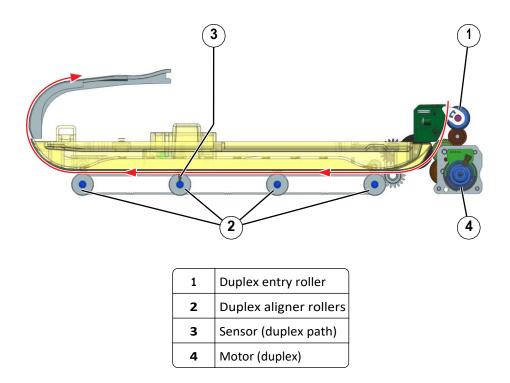
### **Duplex path**



For duplex print jobs, the redrive rollers reverse their rotations to feed the paper back to the printer following the duplex paper path.

The motor (redrive) controls the redrive rollers.

# Duplex transport drive

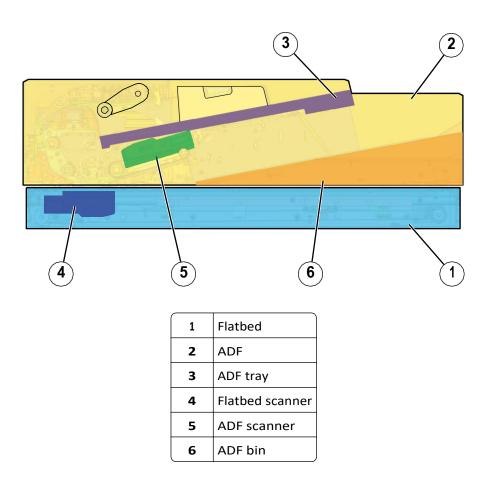


For duplex print jobs, paper from the redrive rollers enters the duplex entry roller. Aligner rollers along the duplex paper path feed the paper back to the standard paper path (see <u>"Main drive" on page 941</u>). The aligner rollers also align the paper along the reference edge.

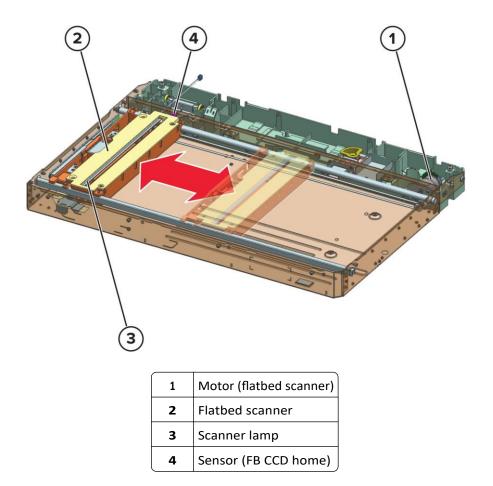
The sensor (duplex path) detects the paper as it travels along the duplex path. The motor (duplex) drives the duplex rollers.

# ADF and flatbed scanner operation

# ADF and flatbed scanner layout



### **Flatbed scanner drive**

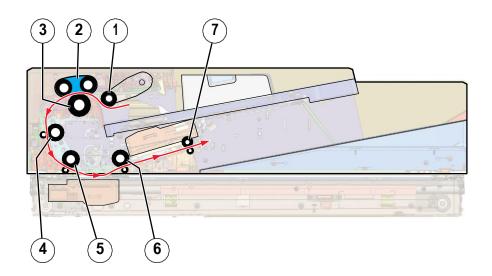


The flatbed scanner has a scanner lamp that is used to illuminate the surface of the document. The reflections produced are processed to create the scan image.

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 CCD home).

For ADF scan jobs, the flatbed scanner stays at the left side to do the first scan (front side of the document).

### **ADF** paper path rollers



1	ADF pick roller	
2	ADF feed belt	
3	ADF separator roller	
4	Deskew roller	
5	1st scan roller	
6	2nd scan roller	
7	Exit roller	

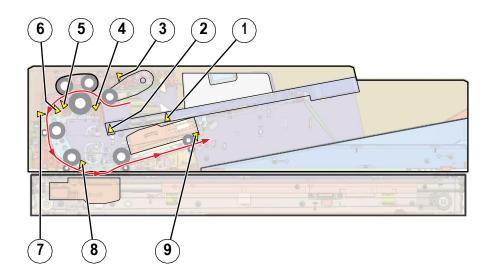
Paper from the ADF tray enters the ADF through the pick roller, feed belt, and separator roller.

After the paper is fed, it travels to the deskew roller where skew correction is performed.

The front side of the document is scanned after the paper enters the 1st scan roller. The back side of the document is scanned after the paper enters the 2nd scan roller.

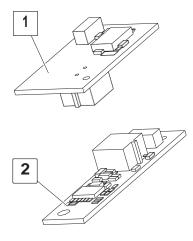
After the paper is scanned, it is ejected by the exit roller to the ADF bin.

# ADF paper pathsensors



#	Sensor	Function
1	Sensor (ADF paper present 1)	Detects if paper is in the tray.
2	Sensor (ADF paper present 2)	
3	Sensor (ADF pick roller index) <b>Note:</b> The sensor (ADF pick roller index) consists of two sensors to detect the high and low positions of the pick roller.	Detects if the pick roller is at the correct height to pick paper
4	Sensor (ADF gap detect)	Detects the gap between fed pages. If no paper is detected, the next page is fed to maximize page output.
5	Sensor (ADF pick)	Detects the paper to ensure proper picking
6	Sensor (ADF multifeed)	Detects the air gaps between sheets to detect double feeds
7	Sensor (ADF deskew)	Detects the paper entering the deskew roller
8	Sensor (ADF 1st scan)	Detects the paper about to be scanned at its front side
9	Sensor (ADF exit)	Detects the paper exiting to the bin

### **ADF double-feed detection**

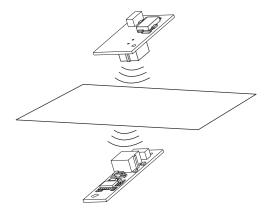


#### Sensor (ADF multi-feed detect) components

1	Transmitter
2	Receiver

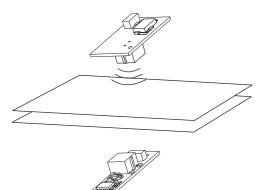
The sensor (ADF multifeed) consists of a transmitter and a receiver. The sensor detects the presence of an air gap between sheets of paper passing between the transmitter and receiver. The transmitter emits an ultrasonic frequency in the direction of the receiver. The signal that arrives at the receiver will drop to nearly nothing when there are multiple sheets in the path.

#### Single sheet (normal)

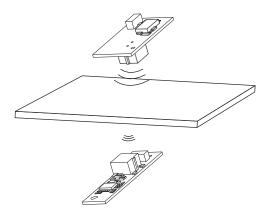


Theory of operation **952** 

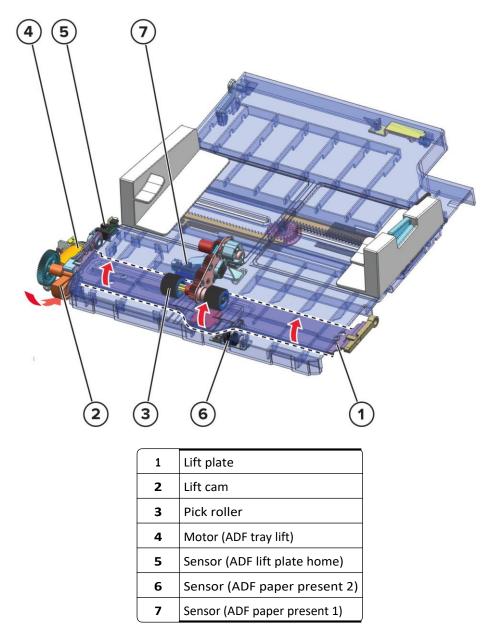
# Multiple sheets



# Single sheet (thick)



#### ADF tray lift drive

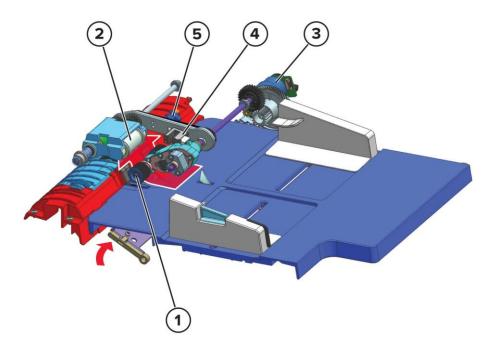


In preparation for feeding, the lift plate raises the ADF tray to push the paper against the pick roller. The ADF tray stops raising at the point where the pick roller is at the proper height for picking.

The motor (ADF tray lift) drives the lift cam which controls the movement of the ADF tray.

The lift plate is detected at its home position by the sensor (ADF lift plate home).

### ADF tray pick and feed drive

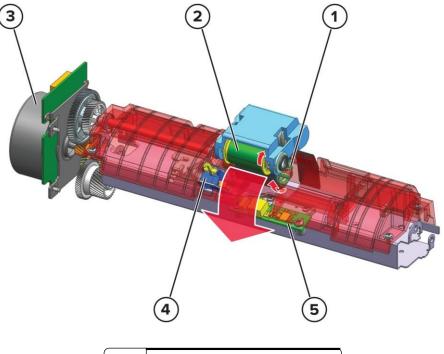


1	ADF pick roller	
2	ADF feed belt	
3	Motor (ADF pick/feed)	
4	Sensor (ADF pick roller index)	
	<b>Note:</b> The sensor (ADF pick roller index) consists of two sensors to detect the high and low positions of the pick roller.	
5	Sensor (ADF gap detect)	

The pick roller and feed belt rotate in the same direction to feed the topmost paper to the ADF.

The motor (ADF pick/feed) drives both the pick roller and feed belt. The sensor (ADF pick roller index) detects if the pick roller is at the proper height to pick paper from the tray.

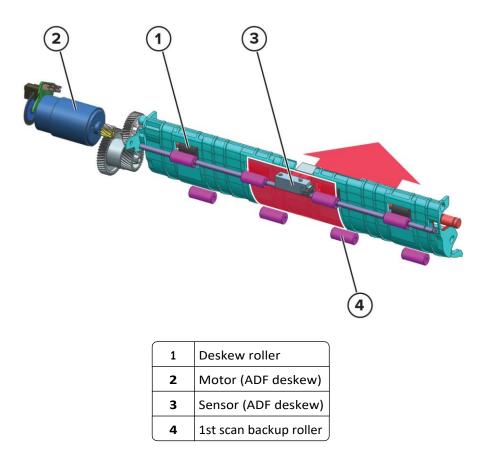
# ADF separator drive



1	ADF separator roller	
2	ADF feed belt	
3	Motor (ADF transport)	
4	Sensor (interval)	
5 Sensor (ADF multifeed) receive		

The separator roller rotates against the feed belt direction to allow only one sheet to be fed at a time. The motor (ADF transport) drives the separator roller.

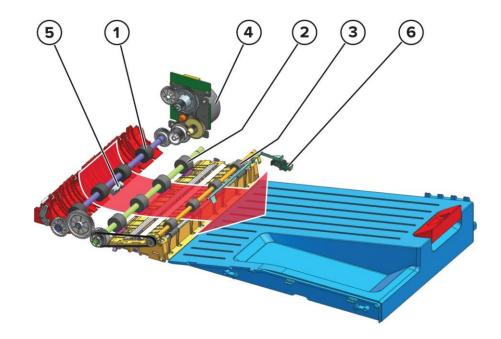
#### ADF deskew drive



The paper stops at the deskew roller to undergo skew correction. The deskew roller counterrotates to align the leading edge of the paper against the rollers. After the skew is corrected, the deskew roller rotates to pass the paper to the 1st scan roller.

The motor (ADF deskew) drives the deskew roller. The sensor (ADF deskew) detects the paper entering the deskew roller.

#### ADF scan and exit drive

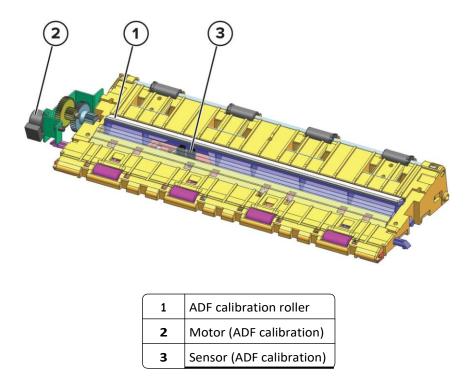


1	1st scan roller	
2	2nd scan roller	
3	Exit roller	
4	Motor (ADF transport)	
5	Sensor (ADF 1st scan)	
6	6 Sensor (ADF exit)	

The paper is fed to the 1st scan roller to scan its front side. The flatbed scanner does the first scan. When the paper passes the 2nd scan roller, its back side is also scanned. The ADF scanner does the second scan. The exit roller ejects the scanned document to the ADF bin.

The motor (ADF transport) drives the scan and exit rollers. The sensor (ADF 1st scan) detects the paper entering the 1st scan roller. The sensor (ADF exit) detects the paper exiting to the bin.

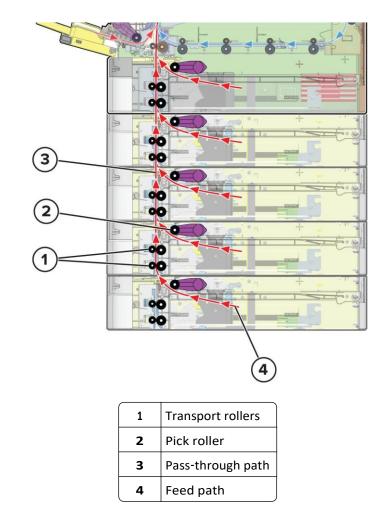
#### **ADF** calibration drive



For rear side scanning, the ADF calibration roller has a black and white reference strips. The white strip is for calibrating white levels. By default, the white strip is used as the background for scan jobs. The black strip is for jobs that involve image editing or cropping.

The roller rotates until the appropriate strip is facing the ADF scanner. The motor (ADF calibration) controls the roller position. The ADF calibration roller position is detected by the sensor (ADF calibration).

# **Optional 550-sheet tray operation**

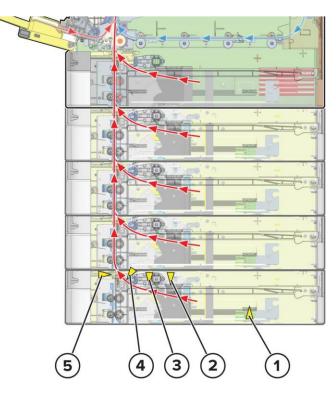


### 550-sheet tray paper path rollers

Paper from the optional trays is fed into the printer through the pick rollers.

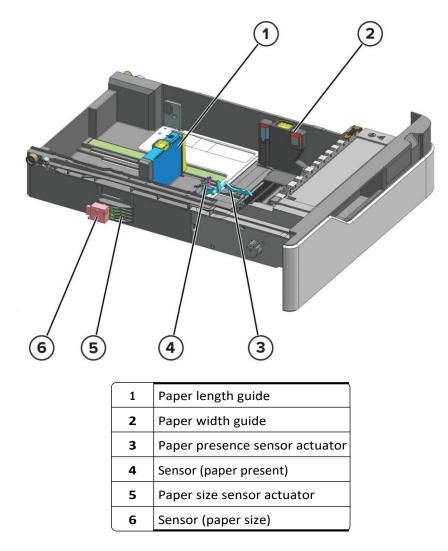
Multiple optional trays use the transport rollers to receive paper from the lower trays.

# 550-sheet tray paper path sensors



#	Sensor	Functions
1	Sensor (paper size)	Detects the position of the paper guides
2	Sensor (paper present)	Detects paper presence in the tray
3	Sensor (pick roller index)	Detects the position of the pick roller
4	Sensor (pick)	Detects paper as it is picked and fed to the printer
5 Sensor (pass-through)		Detects paper that is fed from the lower trays as it enters the printer

#### Paper presence and size detection

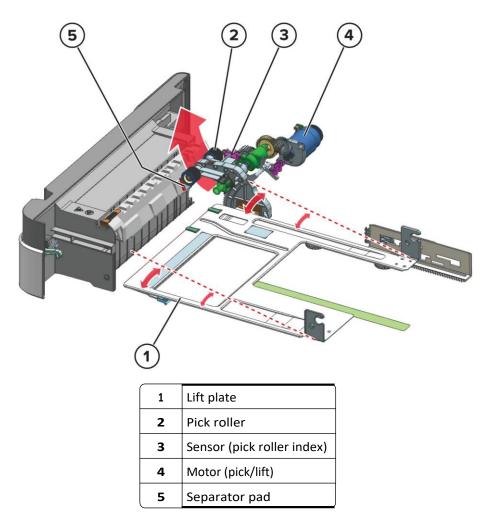


The paper size is detected based on the length guide position. The width guide prevents deskewing.

The fingers of the paper size sensor actuator move according to the position of the paper length guide. The sensor (paper size) detects the formation of the actuator and determines the dimensions of the paper.

When the tray is empty, the paper presence sensor actuator triggers the sensor (paper present).

# Tray pick and lift drive

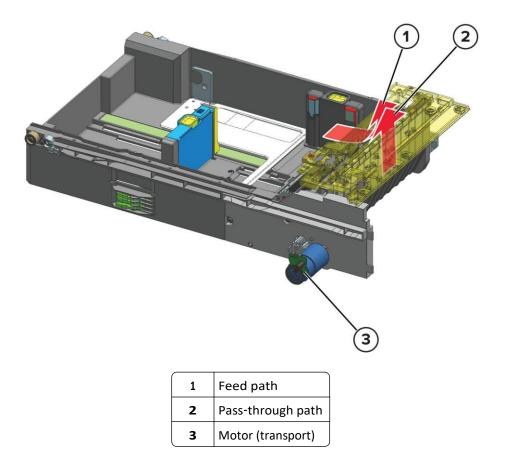


The lift plate lifts the paper until the sensor (pick roller index) is triggered. The motor (pick/lift) starts, and then enables the pick roller to feed the paper into the printer or upper trays.

**Note:** The motor (pick/lift) also drives the lift plate when rotating in reverse.

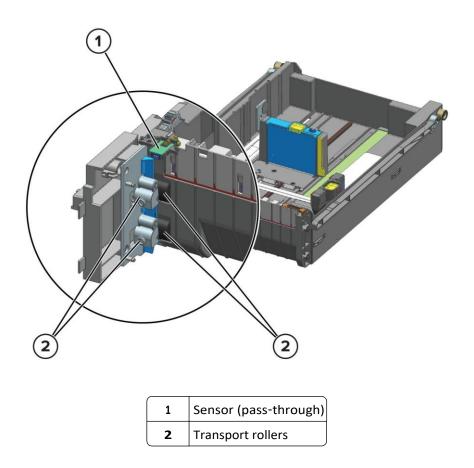
To avoid multiple-sheet picking, the friction from the separator pad prevents the extra paper from entering the printer.

### **Transport drive**



The pass-through path is where paper that is fed from lower trays passes over to the upper trays and into the printer. The motor (transport) drives the transport rollers that move the papers in this path.

The feed path is where paper from the source tray passes over to the pass-through path of the upper tray.



Paper from the lower trays continue on the pass-through path using the transport rollers of the source tray. The sensor (pass-through) detects if paper is transported from the lower trays.

# **Optional 2100-sheet tray operation**

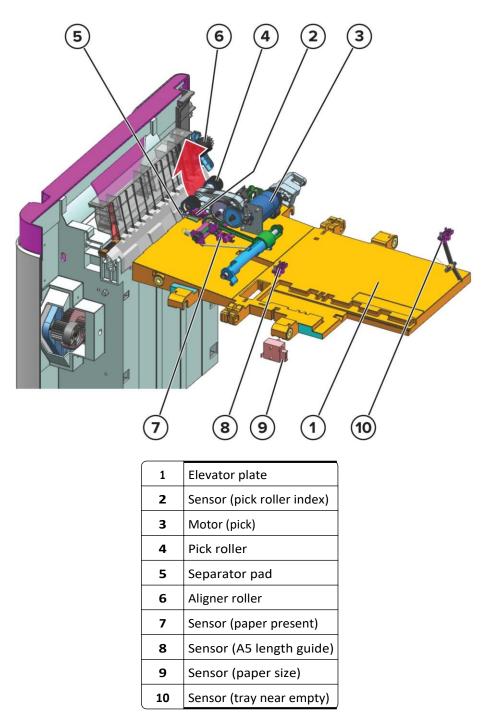
# 

### 2100-sheet tray elevator drive

In preparation for picking, the elevator plate raises to push the paper against the pick roller.

The motor (elevator) drives a network of cables and pulleys to control the movement of the elevator plate.

### 2100-sheet tray pick drive

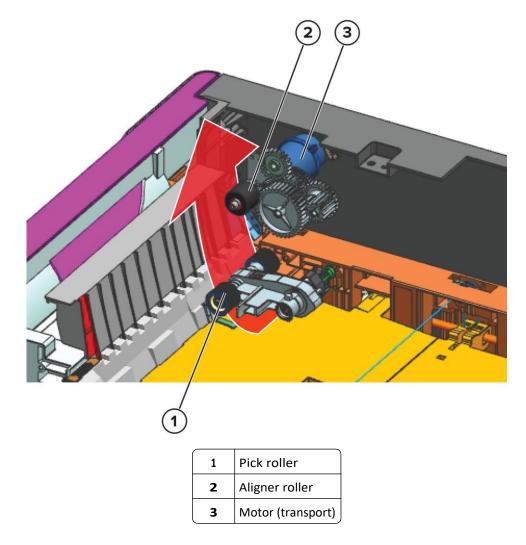


The pick roller is lifted by the elevator plate until it triggers the sensor (pick roller index). At the pick position, the pick roller rotates to pick the topmost paper. The motor (pick) drives the pick roller.

To avoid multi-sheet picking, the friction from the separator pad prevents the extra paper from entering the printer.

The sensor (paper present) detects if the tray is empty. Paper guide positions are also detected by sensors to determine paper size.

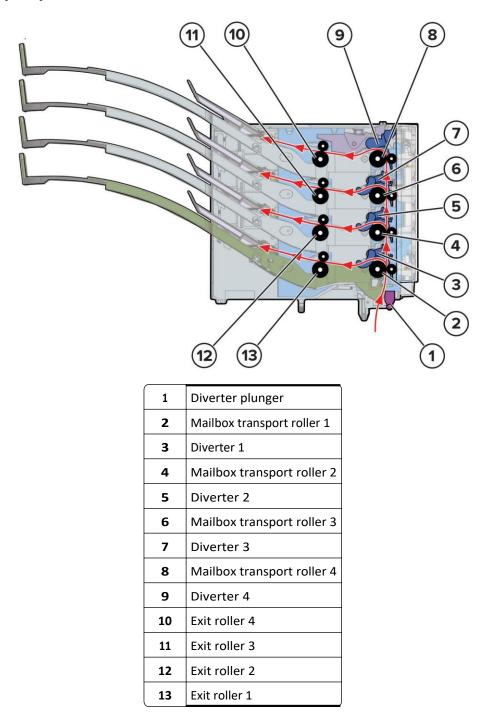
### 2100-sheet tray transport drive



Paper that is picked is received by the aligner roller, and then passed on to the transport roller of the standard tray or optional tray (see <u>"Lower transport drive" on page 940</u>). The motor (transport) drives the aligner roller.

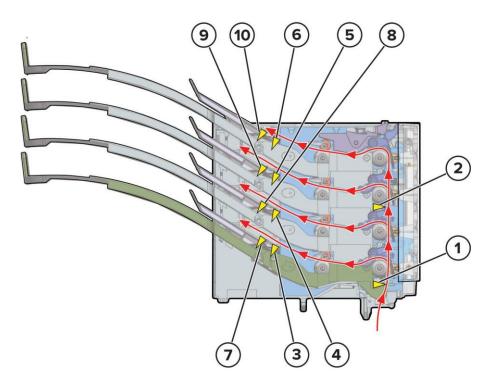
# **Optional mailbox operation**

### Mailbox paper path rollers



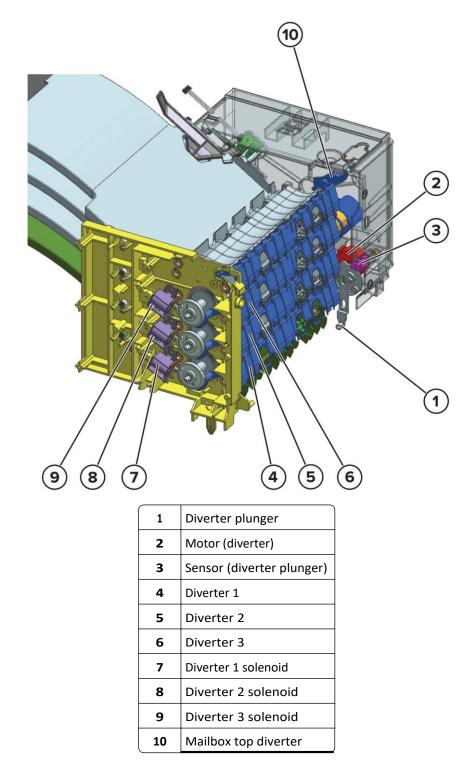
The mailbox delivers print jobs to multiple bin destinations and allows the user to segregate the printed output to an assigned bin. Rollers along the paper path control the movement of the paper depending on the destination bin.

# Mailbox paper path sensors



#	Sensor	Function
1	Sensor (mailbox pass-through 1)	Detects the paper position along the mailbox entrance.
2	Sensor (mailbox pass-through 2)	Detects the paper position along the middle rear door area.
3	Sensor (mailbox bin 1 paper present)	Detects if paper is on bin 1.
4	Sensor (mailbox bin 2 paper present)	Detects if paper is on bin 2.
5	Sensor (mailbox bin 3 paper present)	Detects if paper is on bin 3.
6	Sensor (mailbox bin 4 paper present)	Detects if paper is on bin 4.
7	Sensor (mailbox bin 1 full)	Detects if bin 1 is full.
8	Sensor (mailbox bin 2 full)	Detects if bin 2 is full.
9	Sensor (mailbox bin 3 full)	Detects if bin 3 is full.
10	Sensor (mailbox bin 4 full)	Detects if bin 4 is full.

### Mailbox diverter drive

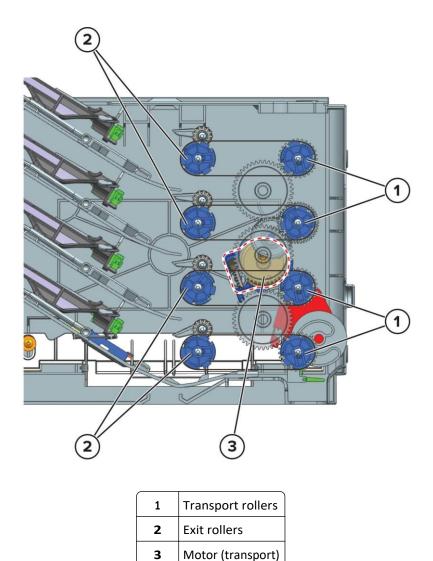


The diverter (from the printer or optional bin) under the mailbox switches to open up the paper path of the mailbox. The diverter plunger controls the position of the diverter below it. The motor (diverter) drives the movement of the plunger. The sensor (diverter plunger) detects the position of the plunger.

By default, diverters 1 to 3 are positioned so that the paper goes straight up. Depending on the destination bin, diverters along the paper path may redirect the paper to the assigned bin. Solenoids control diverters 1 to 3.

On the other hand, the mailbox top diverter is positioned so that the paper exits by default to bin 4. Paper will only go straight up if an optional bin on top of the mailbox is the destination bin of the print job.

### Mailbox transport and exit drive



Transport rollers and exit rollers along the paper path move the paper to the destination bin assigned for the print job.

The motor (transport) drives both the transport and exit rollers.

# Optional staple, hole punch finisher operation

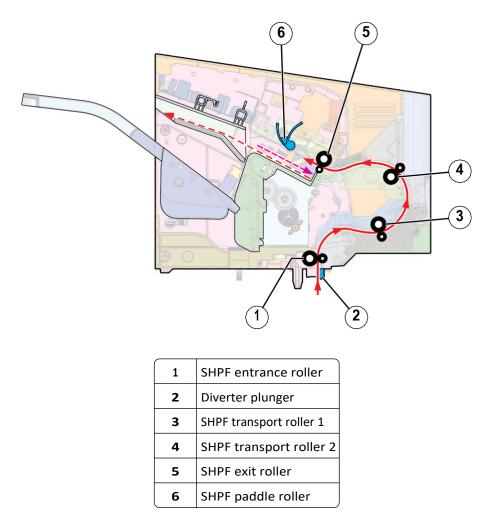
### 5 3 6 7 4 $\widehat{\mathbf{2}}$ 1) լյա Hole punch box 1 2 Hole punch unit 3 Staple unit 4 Paddle and exit Tamper 5 Ejector 6

7

Bin

# Staple, hole punch finisher (SHPF) layout

### **SHPF** paper pathrollers

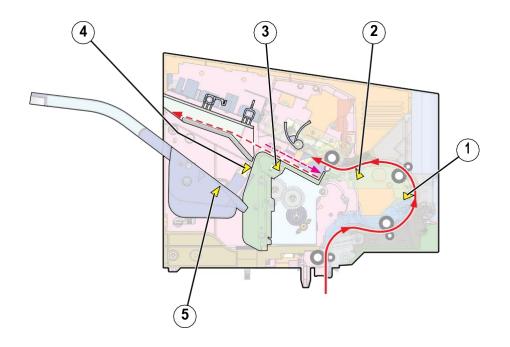


For staple or hole punch jobs, the paper path is redirected to the finisher.

Rollers along the paper path control the movement of the paper depending on the type of staple or hole punch job. Before stapling occurs, paper will be stacked on top of each other and aligned along its edges.

When the staple or hole punch job is done, the paper is ejected to the bin.

# SHPF paper path sensors



#	Sensor	Function
1	Sensor (HPU leading edge)	Detects the paper position along the rear door path.
2	Sensor (HPU trailing edge)	Detects the paper position along the hole punch area.
3	Sensor (SHPF staple throat paper present)	Detects if paper is in the staple unit area.
4	Sensor (SHPF bin full)	Detects if the bin is already full.
5	Sensor (SHPF bin paper present)	Detects if paper is in the bin.

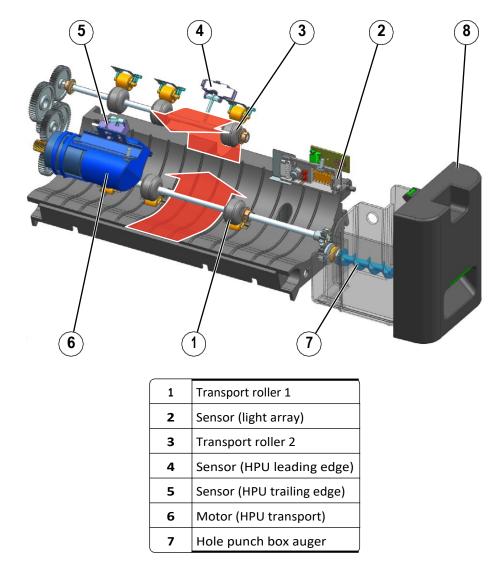
#### **SHPF entrance drive**

1 Diverter plunger				
2 Motor (diverter)				
	3	Sensor (diverter plunger)		
	4	Entrance roller		
	5	Motor (SHPF transport)		

For staple or hole punch jobs, the diverter (from the printer or optional bin) under the finisher switches to open up the paper path of the finisher. The diverter plunger controls the position of the diverter below it. The motor (diverter) drives the movement of the plunger. The sensor (diverter plunger) detects the position of the plunger.

Paper enters the finisher through the entrance roller. The motor (SHPF transport) drives the entrance roller.

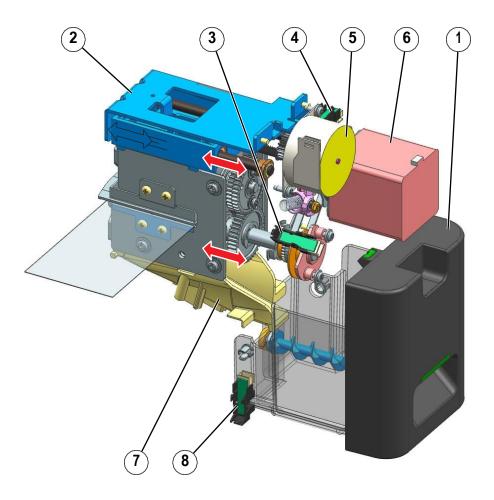
### SHPF HPU transport drive



Transport rollers receive the paper entering the finisher, and then move the paper in the positions where hole punching may be required. The paper is detected by the sensor (HPU leading edge) as it passes between the two transport rollers. Before the paper is fed out by the exit rollers, it is detected by the sensor (HPU trailing edge). The sensor (light array) also detects the paper to ensure proper hole punching.

The motor (HPU transport) not only drives the transport rollers, but the auger in the hole punch box as well. When the hole punch box auger rotates, the chad inside the box is more evenly distributed to maximize the container capacity.

### SHPF hole punch drive



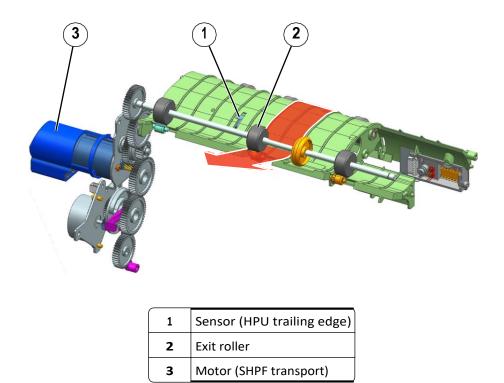
1	Hole punch box
-	
2	HPU carriage
3	Sensor (hole punch)
4	Sensor (HPU carriage position)
5	Motor (HPU carriage)
6	Motor (hole punch)
7	Hopper
8	Sensor (hole punch box present)

During a hole punch job, the HPU carriage position may move to ensure that holes are properly punched at the appropriate positions. The motor (HPU carriage) controls the movement of the carriage. The sensor (HPU carriage position) detects the HPU carriage position.

The blade that punches the paper to create the holes is controlled by the motor (hole punch). The position of the blade is determined by the sensor (hole punch).

After hole punching, the paper chad is collected by a vibrating hopper and poured to the hole punch box.

### **SHPF exit drive**

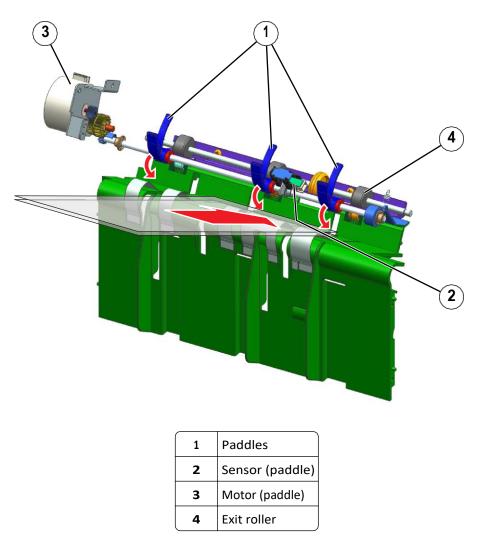


The exit roller receives the paper from the transport rollers, and then ejects the paper to the tamper tray. Paper is stacked on the tamper tray in preparation for stapling.

The motor (SHPF transport) drives both the exit and entrance rollers (see <u>"SHPF entrance drive" on page</u> <u>976</u>).

## Paper stack edge alignment drives

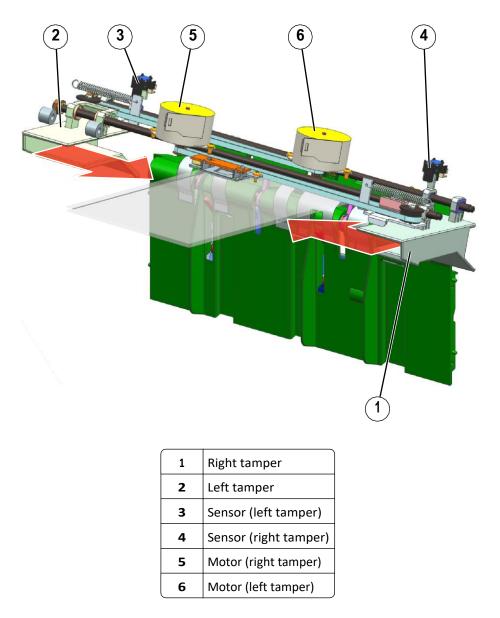
### Short edge alignment



Each sheet that is added to the paper stack is aligned along its short edges. The paddles push the paper against a wall to align the trailing edge.

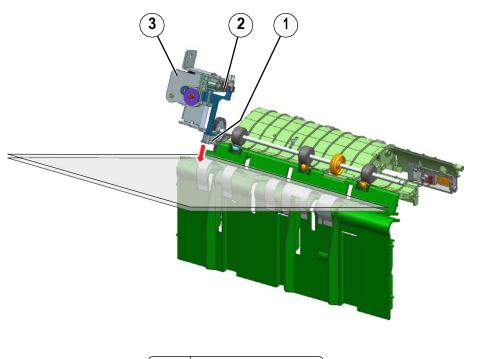
The motor (paddle) drives the paddles. The sensor (paddle) detects the position of the paddle.

### Long edge alignments



On the tamper tray, each sheet that is added to the paper stack is aligned by tampers. The tampers push inward to align the long edges of the paper stack. Two motors control the position and movement of the tampers. Each tamper is detected by its sensor at its home position.

### Paper stack height detection

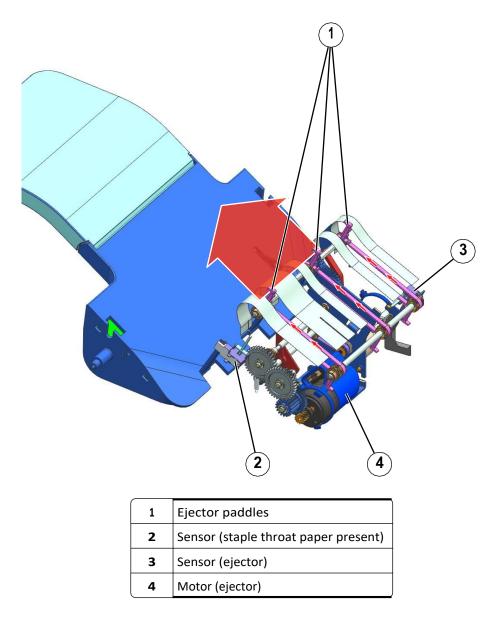


1	Stack height actuator	
2	Sensor (stack height)	
3	Motor (stack height)	

Stack height detection is done each time a sheet is added to the paper stack.

The stack height actuator presses on top of the paper stack. The sensor (stack height) detects if the stack thickness has reached the limit. Limiting the thickness of the stack prevents damage to the staple unit. The motor (stack height) drives the actuator.

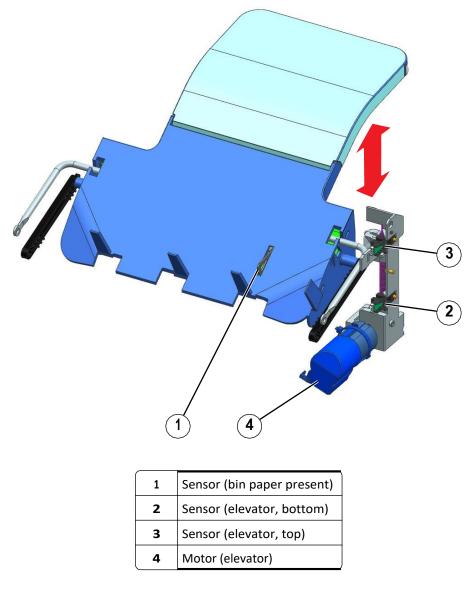
### SHPF ejector drive



After the paper stack is stapled, the ejector paddles connected to a belt push the stack toward the bin.

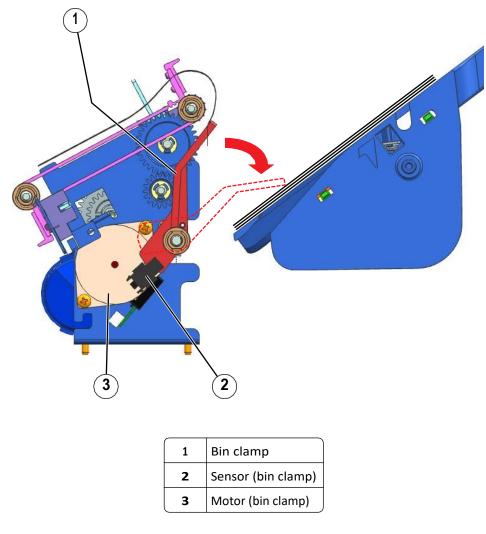
The motor (ejector) drives the ejector belt. The ejector belt is detected at its home position by the sensor (ejector).

### **SHPF elevator drive**



For each sheet that is ejected, the elevator bin lowers as the height of the bin stack increases. The movement of the bin is controlled by the motor (elevator). The bin is detected at its upper and lower positions by sensors.

### SHPF bin clamp drive

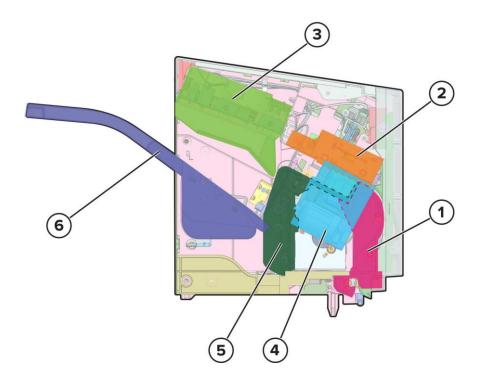


For each sheet that is ejected to the bin, the bin clamp lowers and holds the paper stack. If the level of the paper stack on the bin reaches the sensor (bin full), then the elevator bin will lower to accommodate more sheets.

The motor (bin clamp) controls the bin clamp. The clamp is detected at its home position by the sensor (bin clamp).

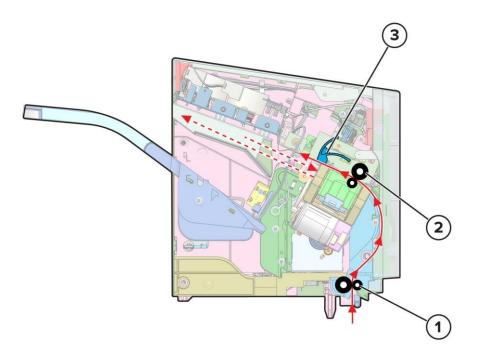
# **Optional staple finisher operation**

# Staple finisher (SF) layout



1	Feed section	
2	Exit section	
3	Tamper	
4	Staple unit	
5	Ejector	
6	Bin	

# SF paper path rollers



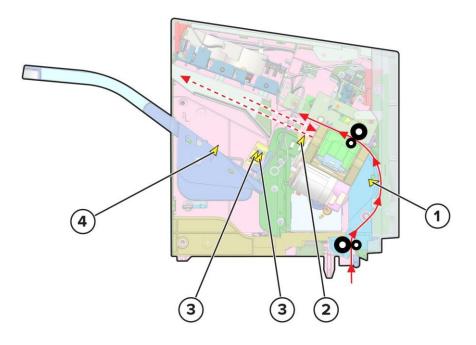
1	Staple finisher entrance rollers		
2	Staple finisher exit rollers		
3	Staple finisher paddle rollers		

For staple jobs, the paper path is redirected to the finisher.

Before stapling occurs, paper is stacked on top of each other and aligned along its edges.

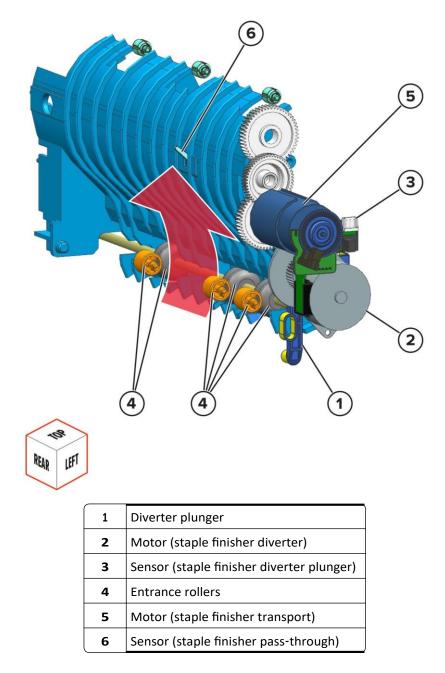
When the staple job is done, the paper is ejected to the bin.

# SF paper path sensors



#	Sensor	Function
1	Sensor (staple finisher pass-through)	Detects paper position along the rear door path
2	Sensor (staple throat paper present)	Detects paper presence in the staple unit area
3	Sensors (staple finisher bin full)	Detects the bin status
4	Sensor (finisher bin paper present)	Detects paper presence in the bin

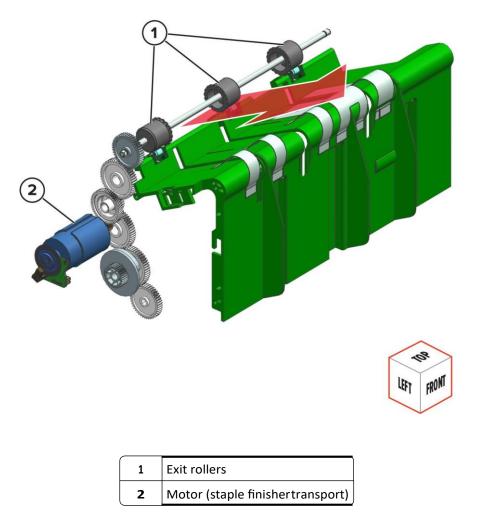
### SF feed section



The feed section receives paper from the printer. The diverter plunger controls the movement of the diverter. The diverter under the finisher switches to open up the paper path of the finisher. The motor (SF diverter) drives the movement of the plunger. The sensor (SF diverter plunger) detects the position of the plunger.

The entrance rollers transport paper to the compiler section. The motor (SF transport) drives the entrance rollers. The sensor (SF pass-through) detects paper position along the rear door path.

### SF exit section

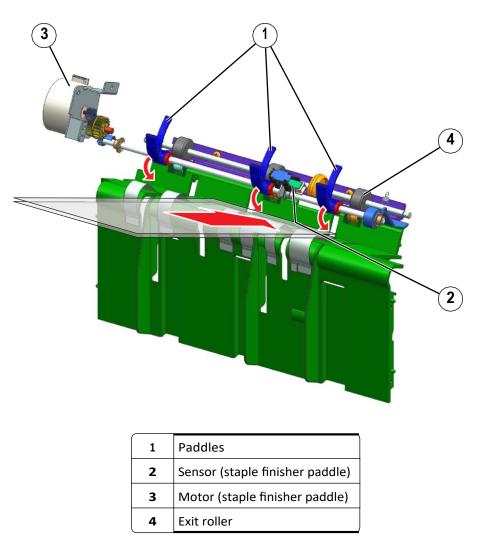


The exit rollers receive the paper from the entrance rollers, and then eject the paper to the compiler section. Paper is stacked on the tamper tray in preparation for stapling.

The motor (SF transport) drives both exit and entrance rollers. See <u>"SF feed section" on page 989</u>.

## SF paper stack edge alignment drives

### Short edge alignment



Each sheet that is added to the paper stack is aligned along its short edges. The paddles push the paper against a wall to align the trailing edge.

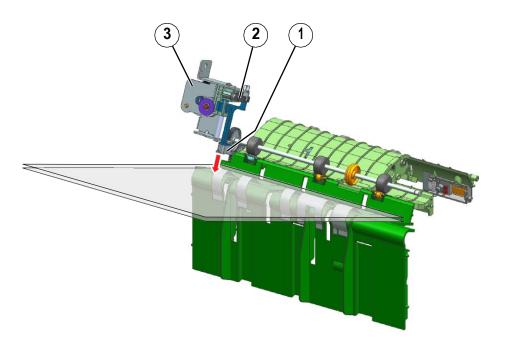
The motor (SF paddle) drives the paddles. The sensor (SF paddle) detects the position of the paddle.

### Long edge alignments

	5				
1	Right tampe	er			
2	Left tamper				
3	Sensor (sta	ple finisher	r left tam	per)	
4	Sensor (sta				
5	Motor (stap				
6	Motor (stap	ole finisher	left tam	per)	

On the tamper tray, each sheet that is added to the paper stack is aligned by the tampers. The tampers push inward to align the long edges of the paper stack. Two motors control the position and movement of the tampers. The sensors detect each tamper at its home position.

### SF paper stack height detection



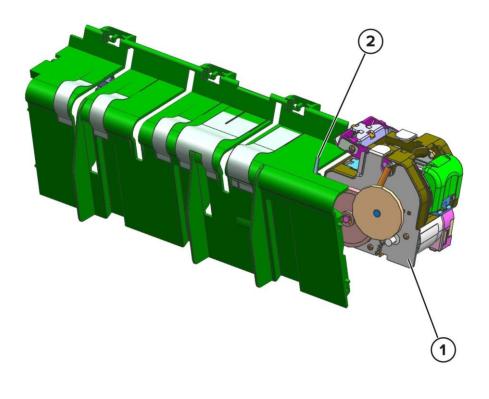
1	Stack height actuator		
2	Sensor (staple finisher stack height)		
3	Motor (staple finisher stack height)		

Stack height detection is done each time a sheet is added to the paper stack.

The stack height actuator presses on top of the paper stack. The sensor (SF stack height) detects if the stack thickness has reached the limit. Limiting the thickness of the stack prevents damage to the staple unit.

The motor (SF stack height) drives the actuator.

# SF stapleoperation



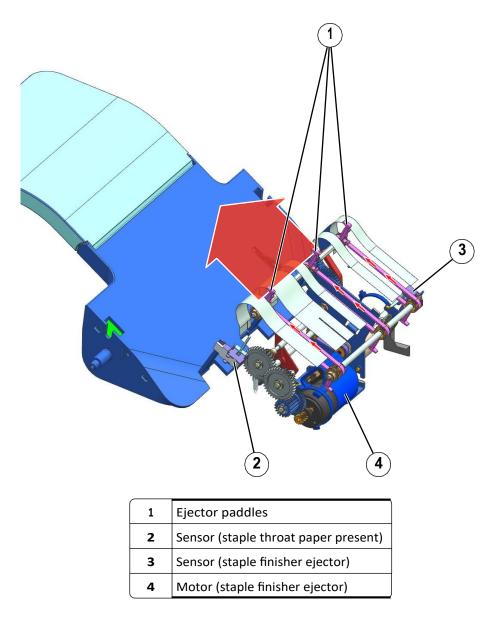
1	Staple unit
2	Sensor (staple throat paper present)

For staple jobs, the paddles push the paper stack to the rear of the finisher.

The sensor (staple throat paper present) detects the paper stack. The staple unit holds down and staples the paper stack.

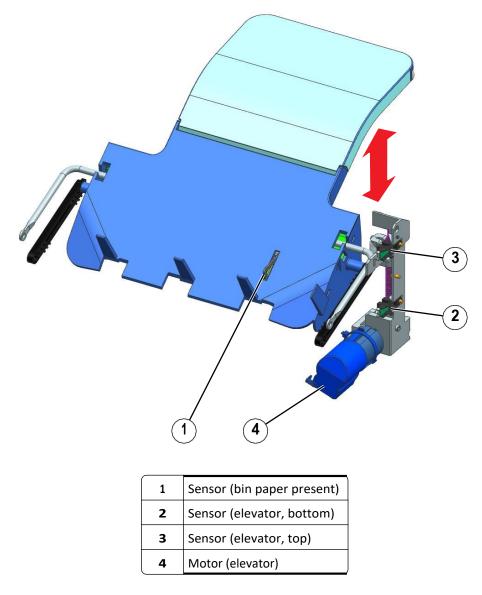
### SF bin section

### **Ejector drive**



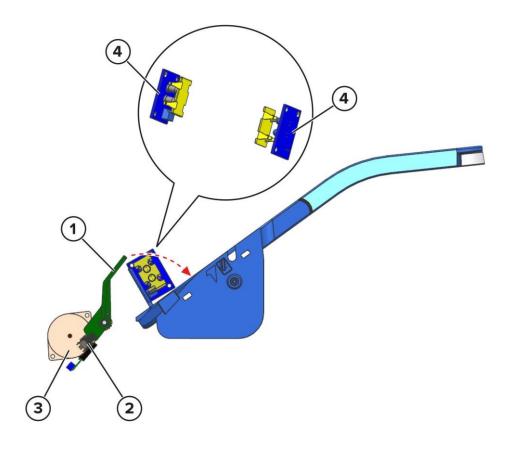
After the paper stack is stapled, the ejector paddles that are connected to a belt push the stack toward the bin. The motor (SF ejector) drives the ejector belt. The sensor (SF ejector) detects the ejector belt at its home position.

#### **Elevator drive**



For each sheet that is ejected, the elevator bin lowers as the height of the bin stack increases. The motor (elevator) controls the movement of the bin. The sensors (elevator) detects the bin at its upper and lower positions.

#### **Clamp drive**



1	Bin clamps		
2 Sensor (bin clamp			
3	Motor (bin clamp)		
4	Sensors (bin full)		

For each sheet that is ejected to the bin, the bin clamps lower and hold the paper stack. If the level of the paper stack on the bin reaches the sensors (bin full), then the elevator bin lowers to accommodate more sheets.

If the level of the paper stack exceeds the sensors (bin full), then the bin reaches full capacity.

The motor (bin clamp) controls the movement of the bin clamp. The sensor (bin clamp) detects the clamps at their home position.

7464, 7465

# Acronyms

# Acronyms

ASIC	Application-Specific Integrated Circuit
BLDC	Brushless DC Motor
BOR	Black Only Retract
С	Cyan
CCD	Charge Coupled Device
ССР	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
К	Black
LCD	Liquid Crystal Display
LDAP	Lightweight Directory Access Protocol
LED	Light-Emitting Diode
LVPS	Low Voltage Power Supply
М	Magenta
MB	Megabyte
MFP	Multifunction Printer
MPF	Multipurpose Feeder
MROM	Masked Read Only Memory

#### Acronyms

999

MS	Microswitch
NVM	Non-volatile Memory
NVRAM	Non-volatile Random Access Memory
OEM	Original Equipment Manufacturer
ОРТ	Optical Sensor
PC	Photoconductor
pel, pixel	Picture element
POR	Power-On Reset
POST	Power-On Self Test
PSD	Position Sensing Device
PWM	Pulse Width Modulation
RIP	Raster Imaging Processor
ROM	Read Only Memory
SDRAM	Synchronous Dual Random Access Memory
SIMM	Single Inline Memory Module
SRAM	Static Random Access Memory
TPS	Toner Patch Sensing
UPR	Used Parts Return
V ac	Volts alternating current
V dc	Volts direct current
VTB	Vacuum Transport Belt
Y	Yellow

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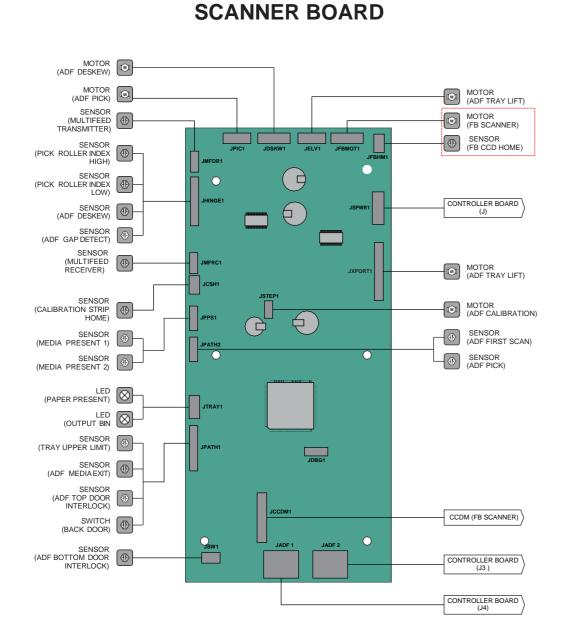
#### W

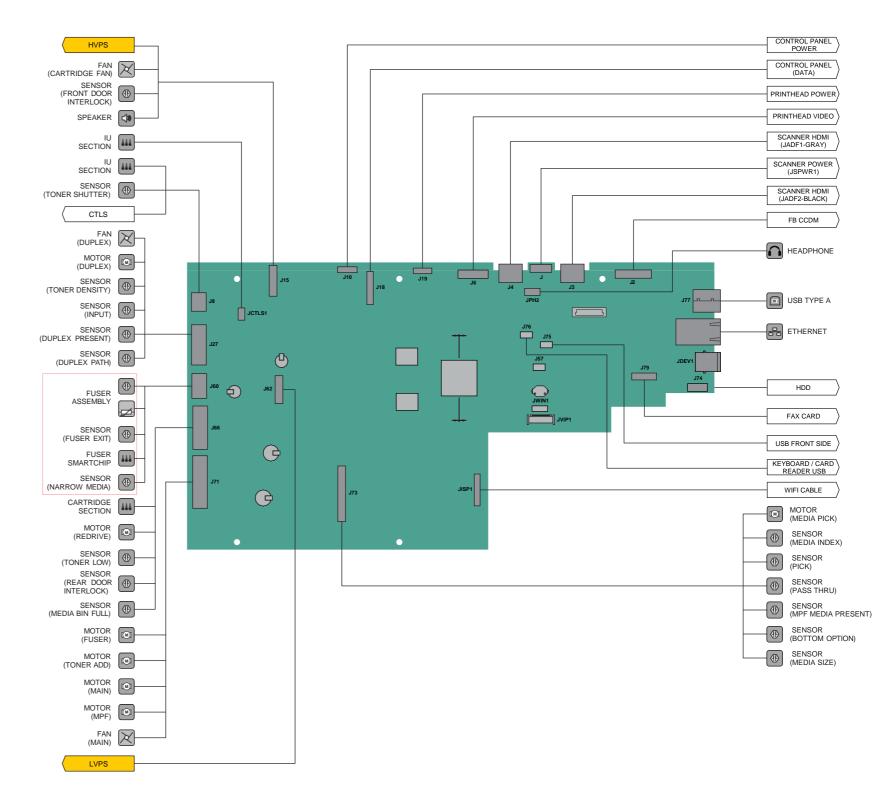
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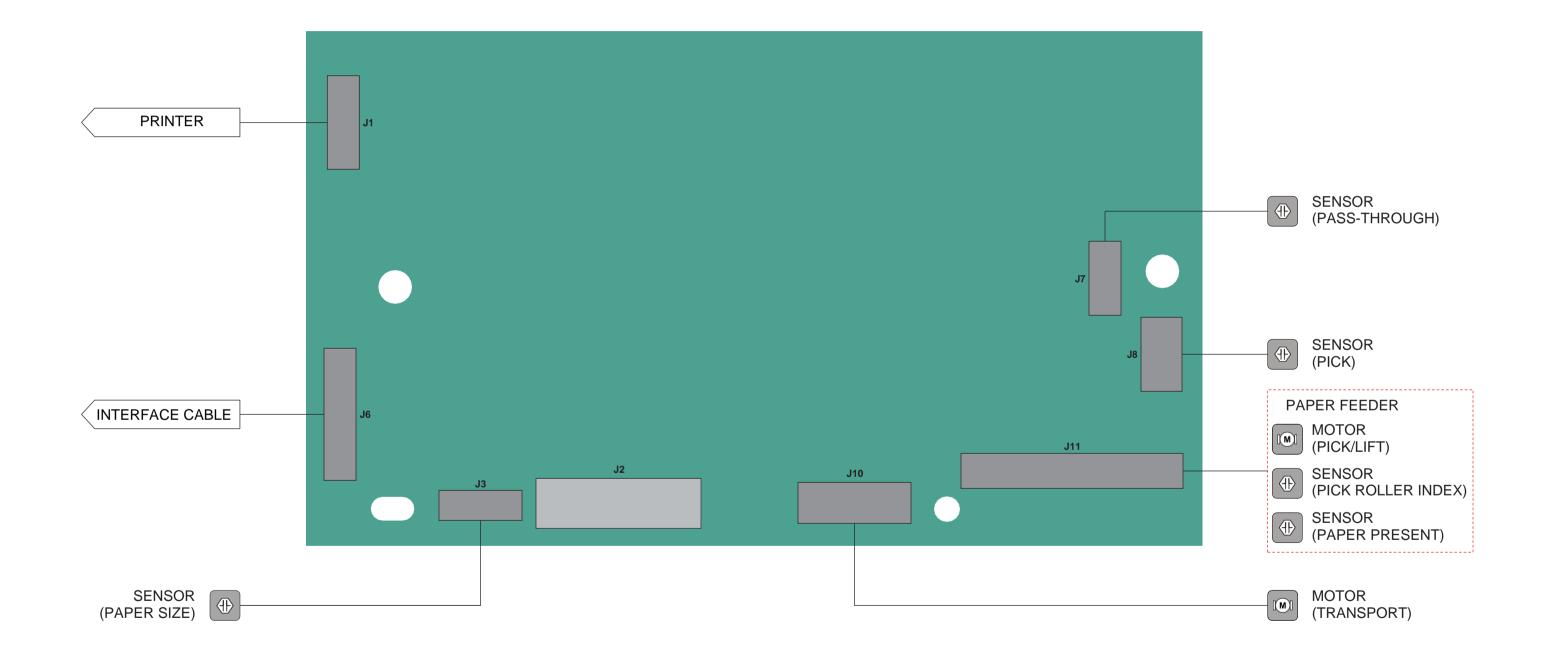
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# MX-B557F, MX-B707F WIRING DIAGRAM

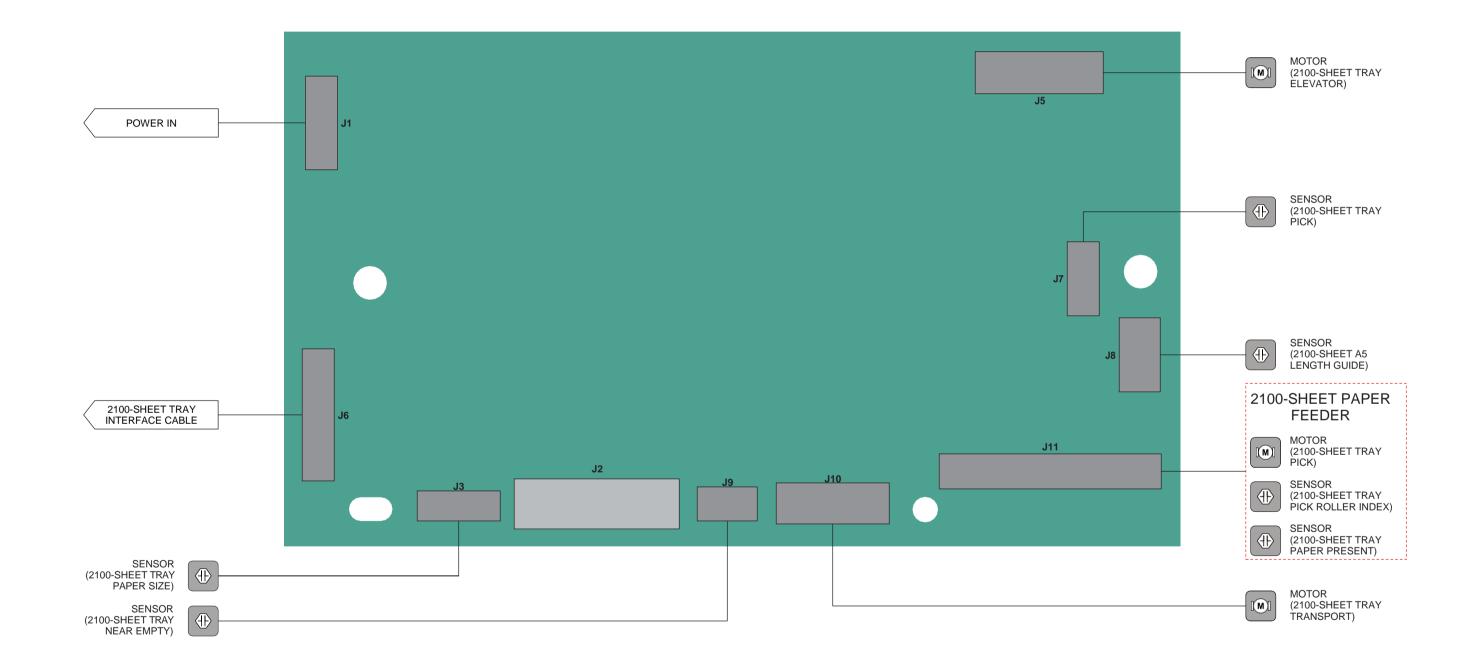
# **CONTROLLER BOARD**



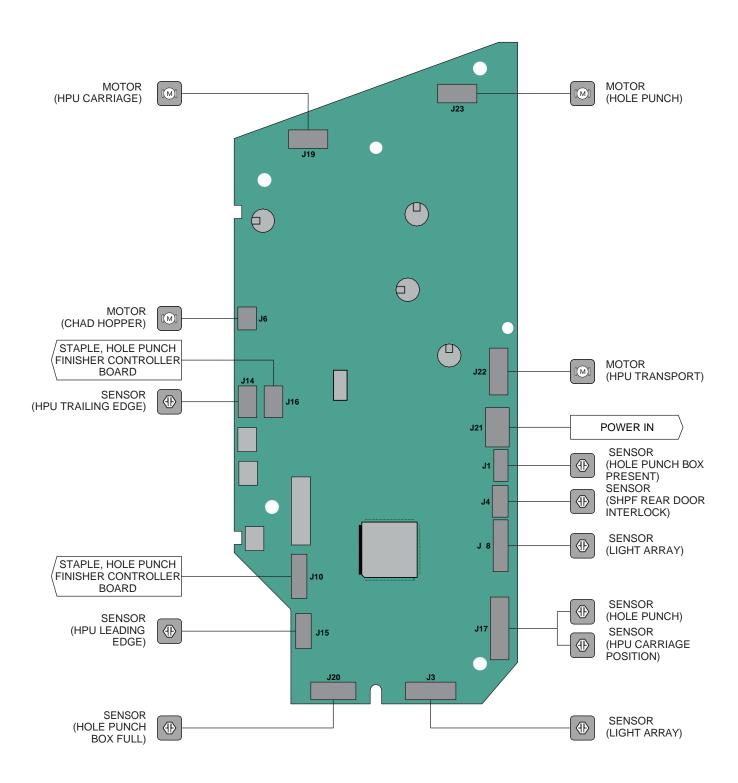




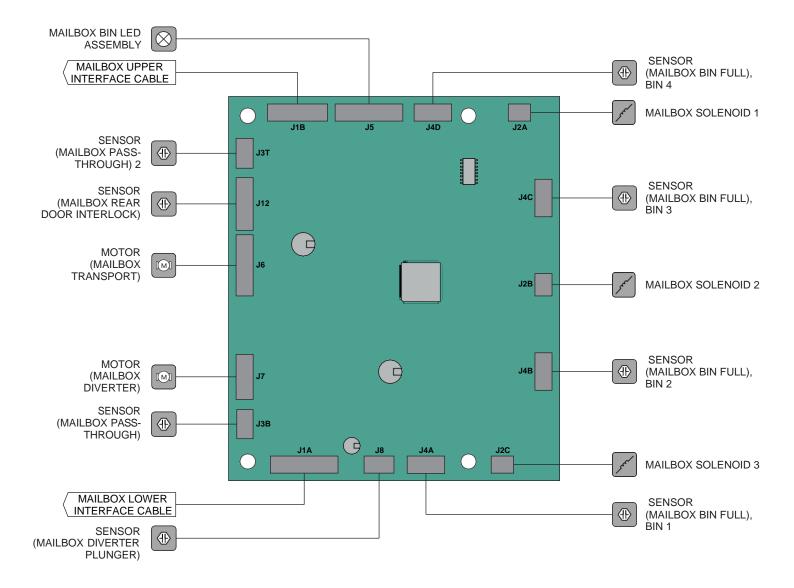
# 2100-SHEET TRAY WIRING DIAGRAM

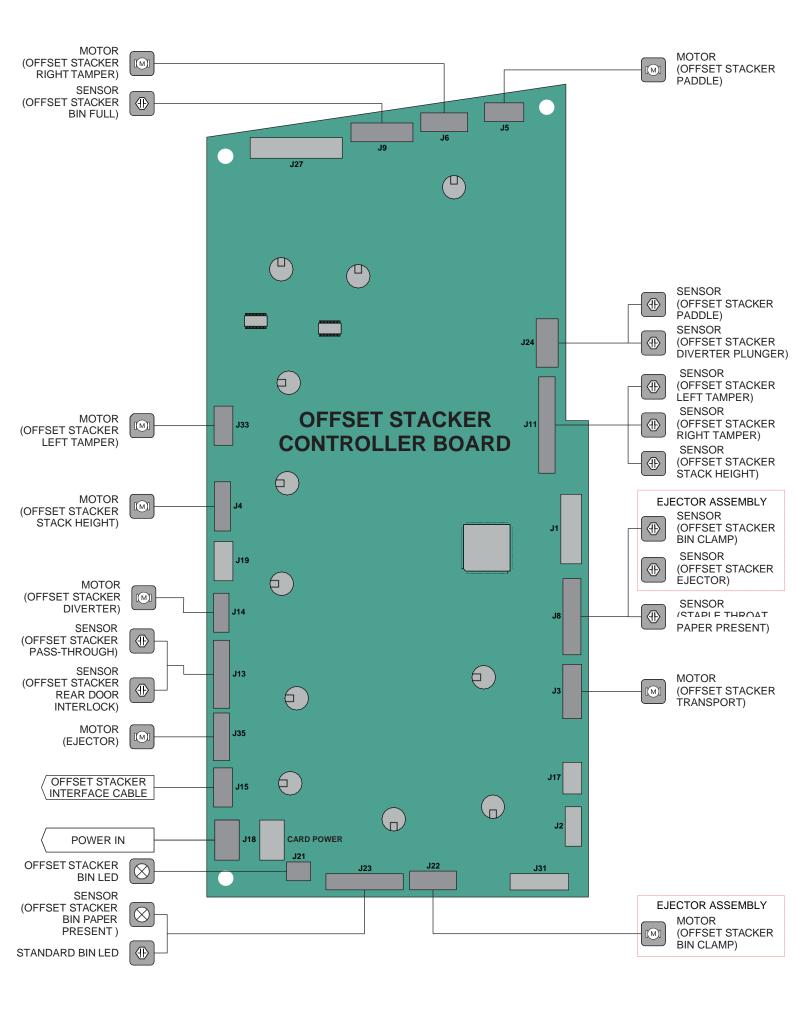


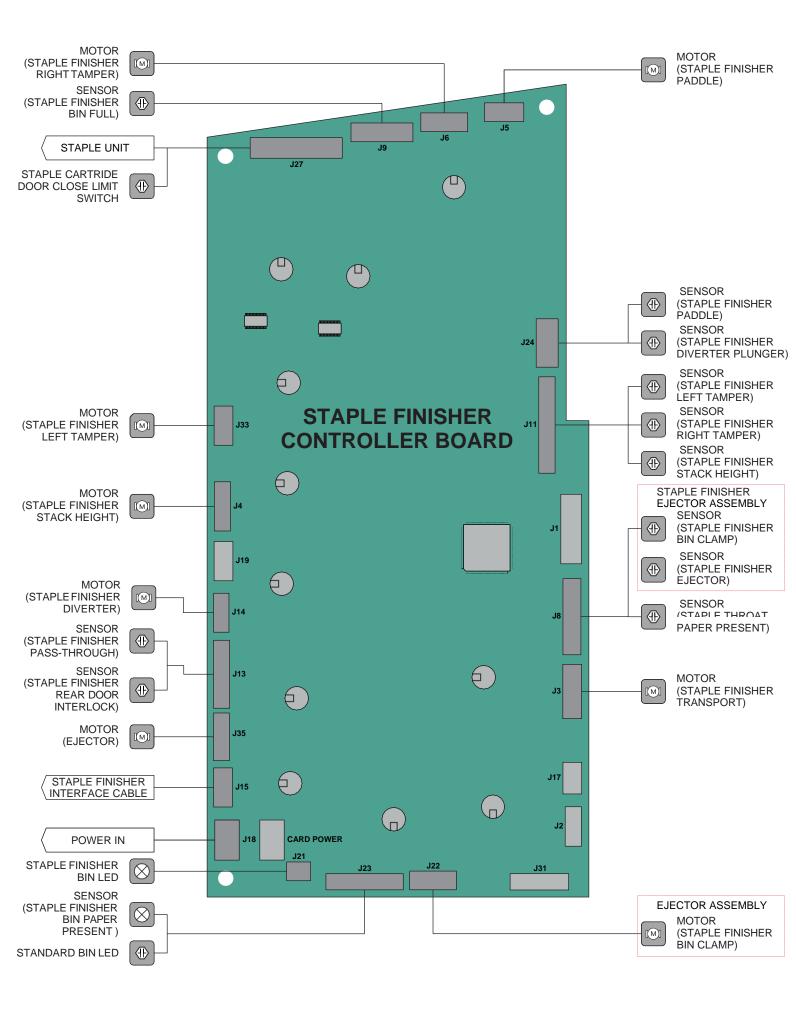
# HPU CONTROLLER BOARD

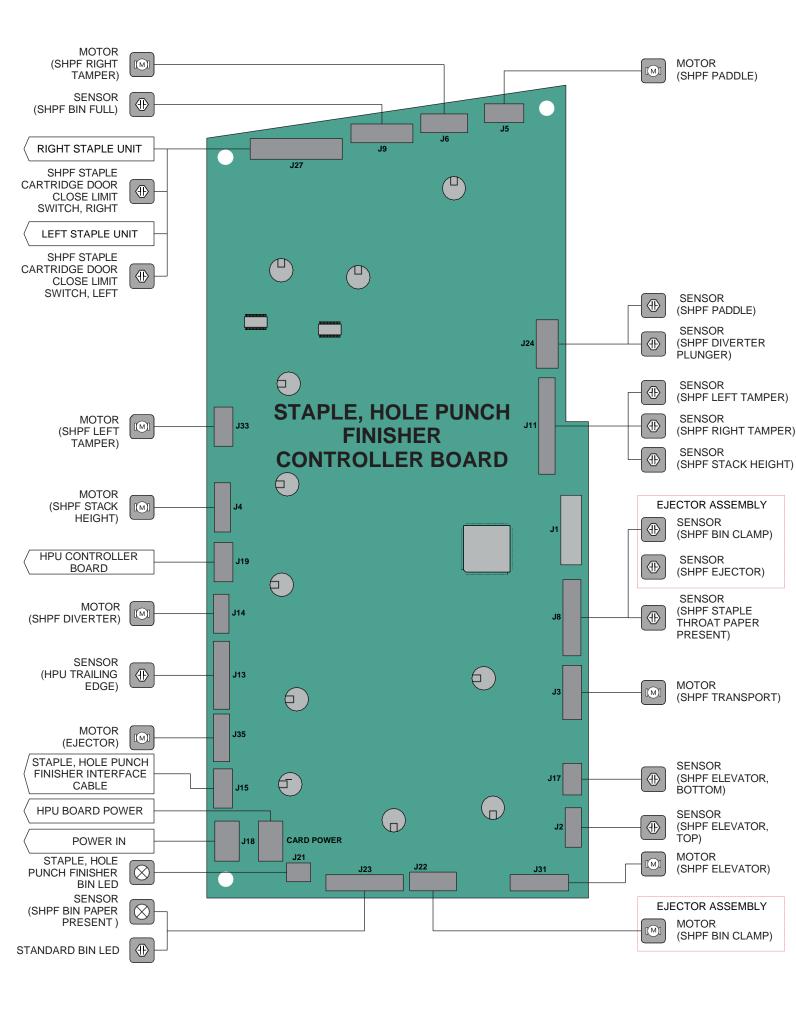


MAILBOX CONTROLLER BOARD





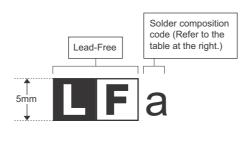




## LEAD-FREE SOLDER

The PWB's of this model employs lead-free solder. The "LF" marks indicated on the PWB's and the Service Manual mean "Lead-Free" solder. The alphabet following the LF mark shows the kind of lead-free solder.

#### Example:



Solder composition	Solder composition code
Sn- <u>A</u> g-Cu	а
Sn-Ag- <u>B</u> i Sn-Ag- <u>B</u> i-Cu	b
Sn- <u>Z</u> n-Bi	Z
Sn-In-Ag-Bi	i
Sn-Cu- <u>N</u> i	n
Sn-Ag-Sb	S
Bi-Sn-Ag- <u>P</u> Bi-Sn-Ag	р

<Solder composition code of lead-free solder>

#### (1) NOTE FOR THE USE OF LEAD-FREE SOLDER THREAD

When repairing a lead-free solder PWB, use lead-free solder thread.

Never use conventional lead solder thread, which may cause a breakdown or an accident.

Since the melting-point of lead-free solder thread is about 40°C higher than that of conventional lead solder thread, the use of the exclusive-use soldering iron is recommended.

#### (2) NOTE FOR SOLDERING WORK

Since the melting-point of lead-free solder is about 220°C, which is about 40°C higher than that of conventional lead solder, and its soldering capacity is inferior to conventional one, it is apt to keep the soldering iron in contact with the PWB for longer time. This may cause land separation or may exceed the heat-resistive temperature of components. Use enough care to separate the soldering iron from the PWB when completion of soldering is confirmed.

Since lead-free solder includes a greater quantity of tin, the iron tip may corrode easily. Turn ON/OFF the soldering iron power frequently. If different-kind solder remains on the soldering iron tip, it is melted together with lead-free solder. To avoid this, clean the soldering iron tip after completion of soldering work.

If the soldering iron tip is discolored black during soldering work, clean and file the tip with steel wool or a fine filer.

CAUTION FOR BATTERY REPLACEMENT	
(Danish) ADVARSEL !	
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.	
Udskiftning må kun ske med batteri	
af samme fabrikat og type.	
Levér det brugte batteri tilbage til leverandoren.	
(English) Caution !	
Danger of explosion if battery is incorrectly replaced.	
Replace only with the same or equivalent type	
recommended by the manufacturer.	
Dispose of used batteries according to manufacturer's instructions.	
(Finnish) VAROITUS	
Paristo voi räjähtää, jos se on virheellisesti asennettu.	
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan	
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden	
mukaisesti.	
(French) ATTENTION	
Il y a danger d'explosion s' il y a remplacement incorrect	
de la batterie. Remplacer uniquement avec une batterie du	
même type ou d'un type équivalent recommandé par	
le constructeur.	
Mettre au rebut les batteries usagées conformément aux	
instructions du fabricant.	
(Swedish) VARNING	
Explosionsfara vid felaktigt batteribyte.	
Använd samma batterityp eller en ekvivalent	
typ som rekommenderas av apparattillverkaren.	
Kassera använt batteri enligt fabrikantens	
instruktion.	
(German) Achtung	
Explosionsgefahr bei Verwendung inkorrekter Batterien.	
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder	
vom Hersteller empfohlene Batterien verwendet werden.	
Entsorgung der gebrauchten Batterien nur nach den vom	
Hersteller angegebenen Anweisungen.	

#### — CAUTION FOR BATTERY DISPOSAL -

#### (For USA, CANADA)

"BATTERY DISPOSAL" THIS PRODUCT CONTAINS A LITHIUM PRIMARY (MANGANESS DIOXIDE) MEMORY BACK-UP BATTERY THAT MUST BE DISPOSED OF PROPERLY. REMOVE THE BATTERY FROM THE PRODUCT AND CONTACT YOUR LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION ON RECYCLING AND DISPOSAL OPTIONS.

"TRAITEMENT DES PILES USAGÉES" CE PRODUIT CONTIENT UNE PILE DE SAUVEGARDE DE MÉMOIRE LITHIUM PRIMAIRE (DIOXYDE DE MANGANÈSE) QUI DOIT ÊTRE TRAITÉE CORRECTEMENT. ENLEVEZ LA PILE DU PRODUIT ET PRENEZ CONTACT AVEC VOTRE AGENCE ENVIRONNEMENTALE LOCALE POUR DES INFORMATIONS SUR LES MÉTHODES DE RECYCLAGE ET DE TRAITEMENT.



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