



Pro C5100/C5110 series

Operating Instructions

Replacement Guide: TCRU/ORU

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Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

This manual is only for operators who have received proper training.

- Never perform any procedure in this manual if you have not received proper training.
- If you have received training and are not sure how to perform a procedure, call your service representative.
- Even if you have received training, never attempt any procedure that is not shown in this manual.
- The contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating this machine.

How to Read This Manual

Symbols

This manual uses the following symbols:

Important

Indicates points to pay attention to when using the machine, and explanations of likely causes of paper misfeeds, damage to originals, or loss of data. Be sure to read these explanations.

Note

Indicates supplementary explanations of the machine's functions, and instructions on resolving user errors.

Reference

This symbol is located at the end of sections. It indicates where you can find further relevant information.

[]

Indicates the names of keys on the machine's display or control panels.

Disclaimer

Contents of this manual are subject to change without prior notice.

In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Power Switch Symbols

Where symbols are used on or near switches on machines for Europe and other areas, the meaning of each symbol conforms with IEC60417.

I ON

⏻ STANDBY

Safety During Operation

In this manual, the following important symbols are used:

WARNING

Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

Safety Precautions to Be Followed

Environments Where the Machine Can be Used

WARNING

- Do not use flammable sprays or solvents in the vicinity of this machine. Doing so could result in fire or electric shock.

WARNING

- Do not place vases, plant pots, cups, toiletries, medicines, small metal objects, or containers holding water or any other liquids, on or close to this machine. Fire or electric shock could result from spillage or if such objects or substances fall inside this machine.

CAUTION

- Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur.

CAUTION

- Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.

CAUTION

- Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.

CAUTION

- Do not place heavy objects on the machine. Doing so can cause the machine to topple over, possibly resulting in injury.

CAUTION

- Make sure the room where you are using the machine is well ventilated and spacious. Good ventilation is especially important when the machine is used heavily.

Handling power cords and power plugs

WARNING

- Do not use any power sources other than those that match the specifications shown in this manual. Doing so could result in fire or electric shock.

WARNING

- Do not use any frequencies other than those that match the specifications shown. Doing so could result in fire or electric shock.

WARNING

- Do not use multi-socket adaptors. Doing so could result in fire or electric shock.

WARNING

- Do not use extension cords. Doing so could result in fire or electric shock.

WARNING

- Do not use power cords that are damaged, broken, or modified. Also, do not use power cords that have been trapped under heavy objects, pulled hard, or bent severely. Doing so could result in fire or electric shock.

WARNING

- It is dangerous to handle the power cord plug with wet hands. Doing so could result in electric shock.

WARNING

- Touching the prongs of the power cable's plug with anything metallic constitutes a fire and electric shock hazard.

WARNING

- The supplied power cord is for use with this machine only. Do not use it with other appliances. Doing so could result in fire or electric shock.

WARNING

- If the power cord is damaged and its inner wires are exposed or broken, contact your service representative for a replacement. Use of damaged power cords could result in fire or electric shock.

WARNING

- Be sure to disconnect the plug from the wall outlet at least once a year and check for the following:
 - There are burn marks on the plug.
 - The prongs on the plug are deformed.
- If any of the above conditions exist, do not use the plug and consult your dealer or service representative. Use of the plug could result in fire or electric shock.

WARNING

- Be sure to disconnect the power cord from the wall outlet at least once a year and check for the following:
 - The power cord's inner wires are exposed, broken, etc.
 - The power cord's coating has a crack or dent.
 - When bending the power cord, the power turns off and on.
 - Part of the power cord becomes hot.
 - The power cord is damaged.
- If any of the above conditions exist, do not use the power cord and consult your dealer or service representative. Use of the power cord could result in fire or electric shock.

CAUTION

- When disconnecting the power cord from the wall outlet, always pull the plug, not the cord. Pulling the cord can damage the power cord. Use of damaged power cords could result in fire or electric shock.

CAUTION

- Be sure to push the plug of the power cord fully into the wall outlet. Partially inserted plugs create an unstable connection that can result in unsafe buildup of heat.

CAUTION

- Be sure to disconnect the plug from the wall outlet and clean the prongs and the area around the prongs at least once a year. Allowing dust to build up on the plug constitutes a fire hazard.

CAUTION

- If this machine is not going to be used for several days or longer at a time, disconnect its power cord from the wall outlet.

CAUTION

- When performing maintenance on the machine, always disconnect the power cord from the wall outlet.

Handling the main machine

WARNING

- The following explains the warning messages on the plastic bag used in this product's packaging.
 - Keep the polythene materials (bags, etc.) supplied with this machine away from babies and small children at all times. Suffocation can result if polythene materials are brought into contact with the mouth or nose.

WARNING

- Be sure to locate the machine as close as possible to a wall outlet. This will allow easy disconnection of the power cord in the event of an emergency.

WARNING

- If the machine emits smoke or odours, or if it behaves unusually, you must turn off its power immediately. After turning off the power, be sure to disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.

WARNING

- If metal objects, or water or other fluids fall inside this machine, you must turn off its power immediately. After turning off the power, be sure to disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.

WARNING

- Do not touch this machine if a lightning strike occurs in the immediate vicinity. Doing so could result in electric shock.

CAUTION

- Unplug the power cord from the wall outlet before you move the machine. While moving the machine, take care that the power cord is not damaged under the machine. Failing to take these precautions could result in fire or electric shock.

CAUTION

- After you move the machine, use the caster fixture to fix it in place. Otherwise the machine might move or come down to cause an injury.

CAUTION

- Contact your service representative if you need to lift the machine (such as when relocating it to another floor). Do not attempt to lift the machine without the assistance of your service representative. The machine will be damaged if it topples or is dropped, resulting in malfunction and risk of injury to users. The machine's various handling areas are for service engineer use only. Do not touch these areas.

CAUTION

- Do not look into the lamp. It can damage your eyes.

CAUTION

- Do not hold the control panel while moving the machine. Doing so may damage the control panel, cause a malfunction, or result in injury.

CAUTION

- Keep your hands away from the hinges and exposure glass when lowering the ADF. Not doing so result in an injury if your hands or fingers are pinched.

Handling the machine's interior

WARNING

- Do not remove any covers or screws other than those explicitly mentioned in this manual. Inside this machine are high voltage components that are an electric shock hazard and laser components that could cause blindness. Contact your sales or service representative if any of the machine's internal components require maintenance, adjustment, or repair.
- Do not attempt to disassemble or modify this machine. Doing so risks burns and electric shock. Note again that exposure to the laser components inside this machine risks blindness.

CAUTION

- Some of this machine's internal components get very hot. For this reason, take care when removing misfed paper. Not doing so could result in burns.

CAUTION

- The inside of the machine could be very hot. Do not touch the parts with a label indicating the "hot surface". Otherwise, an injury might occur.

CAUTION

- When removing jammed paper, make sure not to trap or injure your fingers.

CAUTION

- When loading paper, take care not to trap or injure your fingers.

CAUTION

- Keep your hands clear of the booklet finisher tray when removing misfed paper, pulling out or pushing in the finisher's staple unit. You can trap and injure your fingers if you do not.

CAUTION

- During operation, rollers for transporting the paper and originals revolve. A safety device has been installed so that the machine can be operated safely. But take care not to touch the machine during operation. Otherwise, an injury might occur.

CAUTION

- If the machine's interior is not cleaned regularly, dust will accumulate. Fire and breakdown can result from heavy accumulation of dust inside this machine. Contact your sales or service representative for details about and charges for cleaning the machine's interior.

Handling the machine's supplies

WARNING

- Do not incinerate toner (new or used) or toner containers. Doing so risks burns. Toner will ignite on contact with naked flame.

WARNING

- Do not store toner (new or used) or toner containers anywhere near naked flames. Doing so risks fire and burns. Toner will ignite on contact with naked flame.

WARNING

- Do not use a vacuum cleaner to remove spilled toner (including used toner). Absorbed toner may cause a fire or explosion due to electrical contact flickering inside the vacuum cleaner. However, it is possible to use a vacuum cleaner that is explosion-proof and dust ignition-proof. If toner is spilled on the floor, remove the spilled toner slowly using a wet cloth, so that the toner is not scattered.

WARNING

- The following explains the warning messages on the plastic bag used in this product's packaging.
 - Keep the polythene materials (bags, etc.) supplied with this machine away from babies and small children at all times. Suffocation can result if polythene materials are brought into contact with the mouth or nose.

CAUTION

- The fusing unit becomes extremely hot during operation. To prevent minor burns, allow the machine to cool for at least 30 minutes before you remove the fusing unit.

CAUTION

- The fusing unit weighs approximately around 15.0 kg (33.1 lb).
- When moving the fusing unit, lift it slowly and be careful not to strain yourself. Careless handling or over-exertion when lifting can result in breakage of the unit or injury to yourself.

CAUTION

- Do not crush or squeeze toner containers. Doing so can cause toner spillage, possibly resulting in dirtying of skin, clothing, and floor, and accidental ingestion.

CAUTION

- Store toner (new or used), toner containers, and components that have been in contact with toner out of reach of children.

CAUTION

- If toner or used toner is inhaled, gargle with plenty of water and move into a fresh air environment. Consult a doctor if necessary.

CAUTION

- If toner or used toner gets into your eyes, flush immediately with large amounts of water. Consult a doctor if necessary.

CAUTION

- If toner or used toner is swallowed, dilute by drinking a large amount of water. Consult a doctor if necessary.

CAUTION

- When removing jammed paper or replacing toner, avoid getting toner (new or used) on your clothing. If toner comes into contact with your clothing, wash the stained area with cold water. Hot water will set the toner into the fabric and make removing the stain impossible.

CAUTION

- Avoid getting toner on your clothes or skin when replacing toner filter. If your skin comes into contact with toner, wash the affected area thoroughly with soap and water.
- If toner gets on your clothing, wash with cold water. Hot water will set the toner into the fabric and may make removing the stain impossible.

SAFETY AND ECOLOGICAL NOTES FOR DISPOSAL

1. Do not incinerate toner bottles or used toner. Toner dust may ignite suddenly when exposed to an open flame.
2. Dispose of used toner and organic photoconductors in accordance with local regulations. (These are non-toxic supplies.)
3. Dispose of replaced parts in accordance with local regulations.

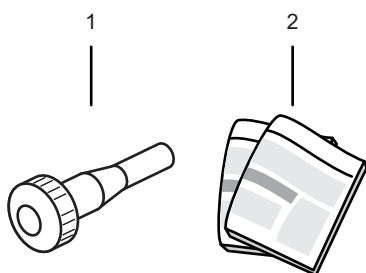


1. Before You Begin

What You Need

1

Use only the tools and materials described in this manual. Using other tools or materials could damage the machine or cause injury.



CWH162

1. Hex screwdriver

Use this to remove black hexagonal-head screws from the machine.

2. Newspaper or other paper

To prevent toner and other stains getting on the floor, spread sheets of paper out where you intend to place the removed parts.

↓ Note

- The hex screwdriver is included in the maintenance kit. Keep them somewhere safe. If the maintenance kit has any items missing, contact your service representative.

General Cautions

★ Important

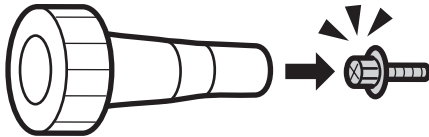
- **Never remove any screw unless you are instructed to do so.**

Handles and levers

- Purple handles and levers are for pulling or lifting parts when you move or remove them. Purple labels on parts indicate exactly where to hold the parts when pulling or lifting them.

Screws

- Replaceable components are secured with black screws. Never remove screws that are not black.
- The hex screwdriver is used to clench the heads of screws, so that they do not drop into the machine during removal.

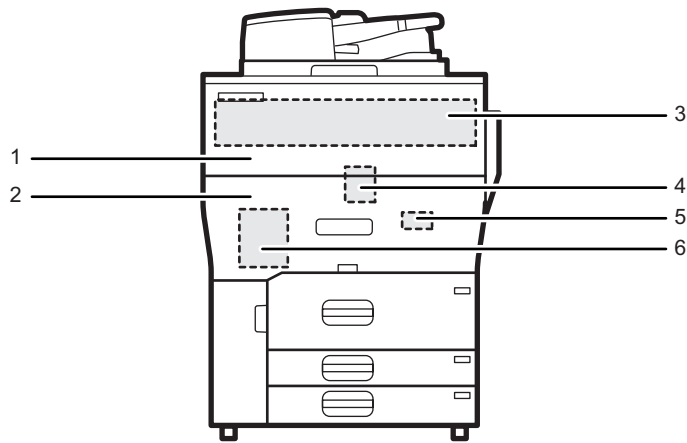


CWH161

Names of Components

WARNING

- Do not remove any covers or screws other than those explicitly mentioned in this manual. Inside this machine are high voltage components that are an electric shock hazard. Contact your sales or service representative if any of the machine's internal components require maintenance, adjustment, or repair.
- Do not attempt to disassemble or modify this machine. Doing so risks burns and electric shock.



CWH175

1. Toner unit
2. Drawer
3. Photoconductor unit
4. Cleaning unit for intermediate transfer belt
5. Transfer unit
6. Fusing unit

Control Panel

1



CWH177

1. Main power indicator
2. Number keys
3. [User Tools] key
4. [Counter] key
5. [Start] key

Turning Off/On the Power

Turn off the main power before carrying out any of the operations described in this manual.

The main power switch is on the left side of the machine. When this switch is turned on, the main power turns on and the main power indicator lights up. When this switch is turned off, the main power turns off and the main power indicator goes out.

Turning Off the Main Power

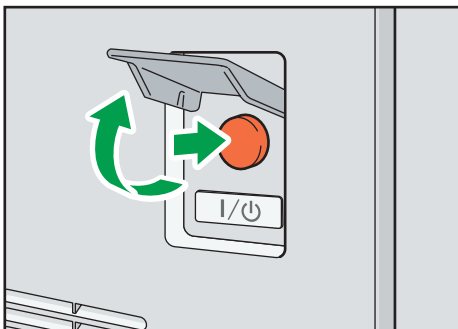
⚠ CAUTION

- When disconnecting the power cord from the wall outlet, always pull the plug, not the cord. Pulling the cord can damage the power cord. Use of damaged power cords could result in fire or electric shock.

★ Important

- After turning the machine's power off, wait at least a few seconds before turning it back on.
- Before unplugging the power cord plug, turn off the main power switch and make sure the main power switch indicator turns off. Not doing so may result in damage to the hard disk or memory, leading to malfunctions.
- Do not turn off the power while the machine is in operation. Doing so may result in damage to the hard disk or memory, leading to malfunctions.
- Do not hold down the main power switch while turning off the main power. Doing so forcibly turns off the machine's power and may damage the hard disk or memory and cause malfunctions.

1. Open the main power switch cover, and then push the main power switch.



CUV135

The main power indicator goes out.

Turning On the Main Power

1

★ Important

- Do not turn off the main power switch immediately after turning it on. Doing so may result in damage to the hard disk or memory, leading to malfunctions.

1. Make sure the power cord is firmly plugged into the wall outlet.
2. Open the main power switch cover, and push the main power switch.

The main power indicator lights up.

↓ Note

- After you switch the main power on, a screen may appear to indicate that the machine is initializing. Do not switch the power off during this process. Initialization takes about three minutes.

Specifying System Auto-Reset Timer

To prevent the machine from switching screens while you are replacing parts, set [System Auto Reset Timer] to "Off". After replacing the parts return the setting to "On", if necessary.

Note

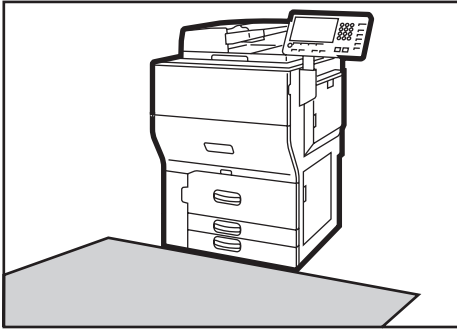
- For details about changing this setting, see General Settings Guide, which is supplied with this machine.

Preparation

1

Spread newspaper or other paper in front of the machine before removing any parts.

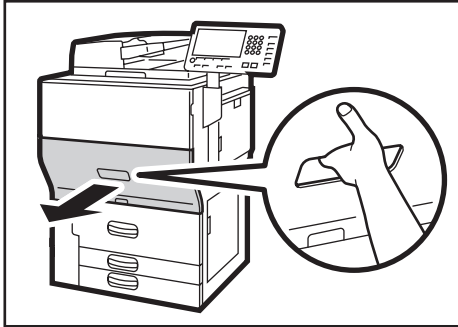
- The newspaper or other paper will catch small amounts of toner or shreds of dry lubricant that may fall out of the PCUs when they are removed.



CWH165

Resetting the Replaceable Parts Counter

1. Pull out the drawer until it stops.

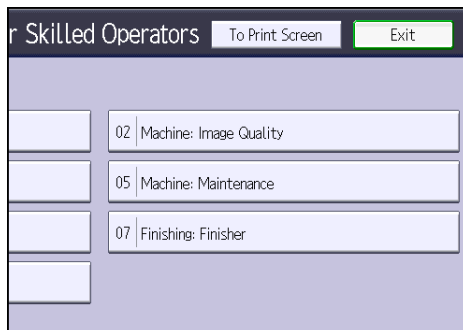


CWH001

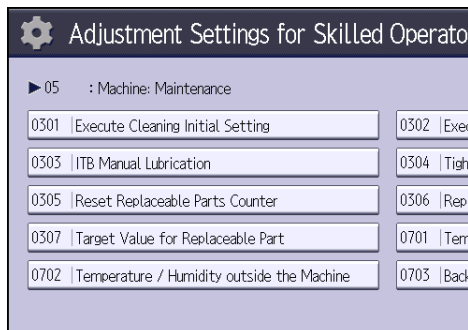
2. Turn the machine on.
3. Access the Adjustment Settings for Skilled Operators menu.

See "Adjustment Settings for Skilled Operators", Adjustment Item Menu Guide: TCRU/ORU.

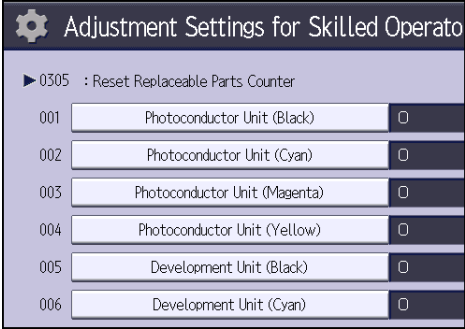
4. Press [Machine: Maintenance].



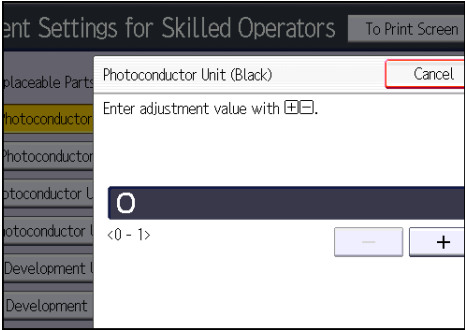
5. Press [Reset Replaceable Parts Counter].



6. Press the button of the part that has been replaced.



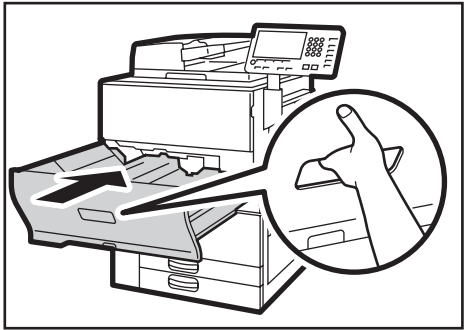
7. Press **[+]** to set the value to 1.



8. Turn the machine off.

See page 19 "Turning Off/On the Power".

9. Push the drawer back into the machine.



CWH013

10. Turn the machine on.

The counter for the replaced component is reset. The setting for adjusting the machine for the replaced component is executed automatically.

11. Access the **Adjustment Settings for Skilled Operators** menu.

See "Adjustment Settings for Skilled Operators", Adjustment Item Menu Guide: TCRU/ORU.

12. Press [Machine: Maintenance].
13. Press [Replaceable Parts Counter].
14. Make sure the counter has been reset.

2. Replacing the Paper Feed Rollers

Before You Begin

★ Important

- The three rollers must be replaced together.
- Handle new rollers carefully and avoid touching their surfaces with bare hands.
- If you lose a snap ring, contact your service representative.

What You Need

- Hex screwdriver

Replacement Message

- "Replacement Required:ADF: Separation Roller"
- "Replacement Required:ADF: Paper Feed Belt"
- "Replacement Required:ADF: Pick-up Roller"
- "Replacement Required:Paper Feed Roller: Tray 1"

The name of the paper tray that needs to be replaced appears.

Print the counter list.

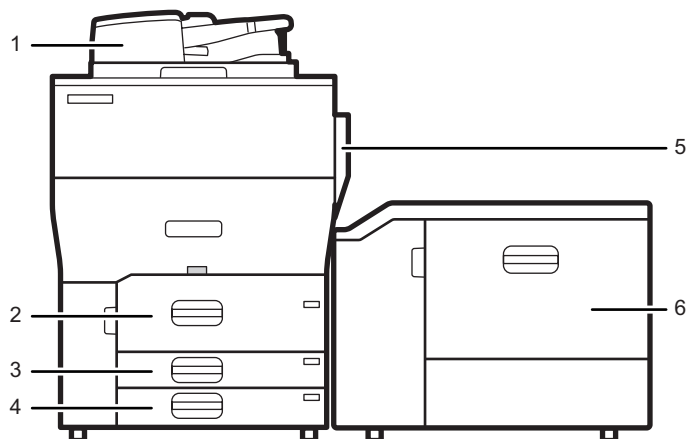
1. Press the [Counter] key and print out the counter list.

See page 18 "Control Panel".

2. Turn the machine off.

See page 19 "Turning Off/On the Power".

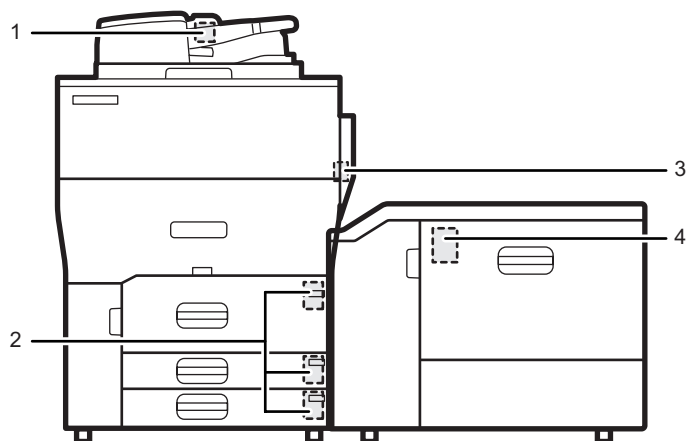
Tray Names



CWH178

1. ADF
2. Tray 1
3. Tray 2
4. Tray 3
5. Multi bypass tray
6. Tray 4 (wide LCT)

Position of the paper feed rollers



CWH176

1. ADF
2. Trays 1-3
3. Multi bypass tray
4. Tray 4 (wide LCT)

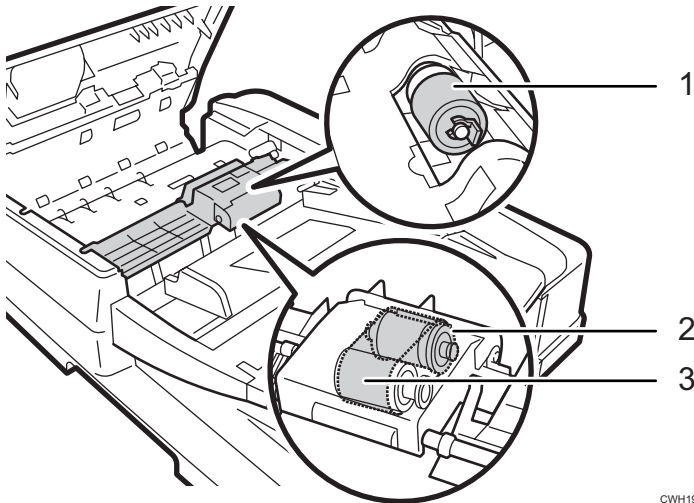
Replaceable Parts

2

There are three kinds of rollers.

- Pick-up roller
Pulls the paper out of the tray and feeds it to the feed roller.
- Feed roller
Feeds the paper from the tray into the paper path.
- Separation roller
Rotates with the feed roller. However, if more than one sheet of paper is fed, a torque limiter clutch reverses the rotation of the separation roller, sending the paper back into the tray.

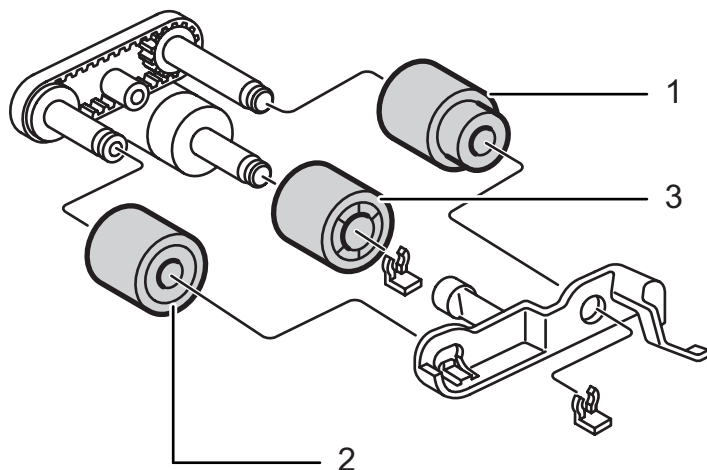
ADF



CWH194

1. Separation roller
2. Pick-up roller
3. Paper feed belt

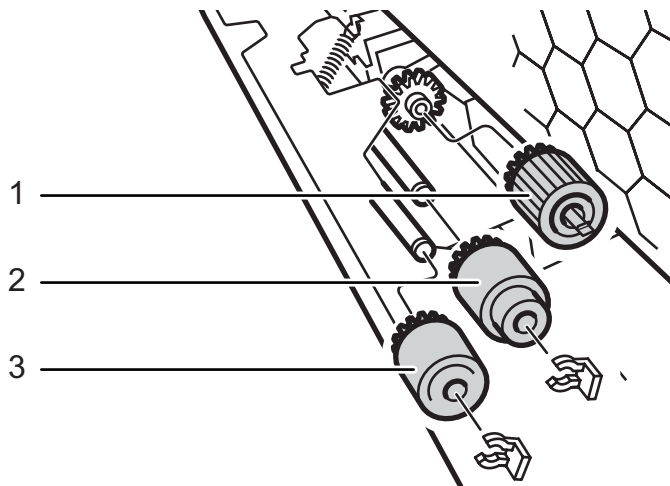
Trays 1-3



CWH191

1. Pick-up roller
2. Feed roller
3. Separation roller

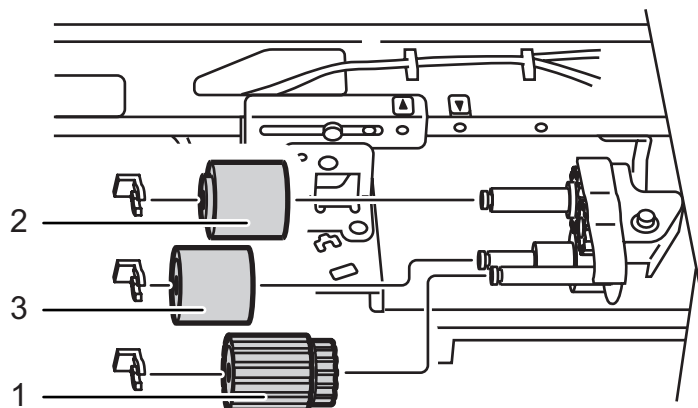
Multi bypass tray



CWH193

1. Pick-up roller
2. Feed roller
3. Separation roller

Tray 4 (LCT)



CWH192

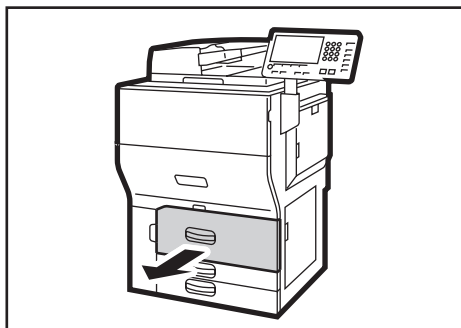
1. Pick-up roller
2. Feed roller
3. Separation roller

Detaching and Reattaching the Tray

Detaching Tray 1 (A4, 8¹/₂ × 11 Tray Unit)

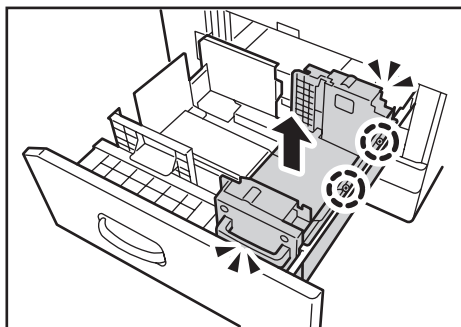
1. Pull open the tray until it stops.

Remove any paper in the tray.



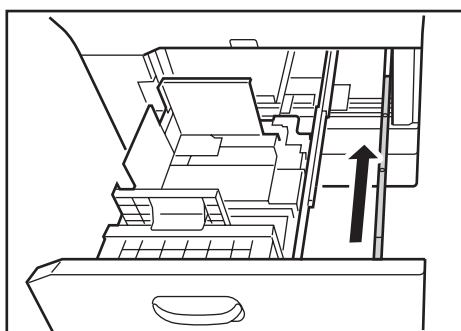
CWH094

2. Remove the two screws, and then lift the inner tray out of the drawer.



CWH095

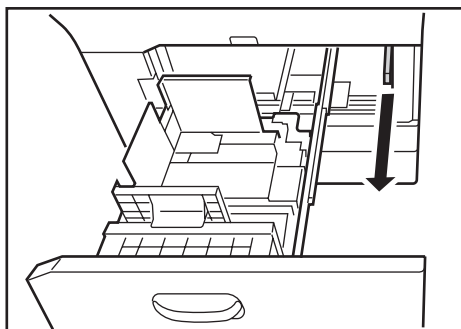
3. Push the guide rail back into the machine.



CWH096

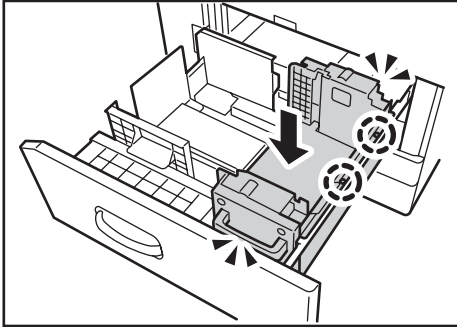
Reattaching Tray 1 (A4, 8¹/₂ × 11 Tray Unit)

1. Pull out the guide rail.



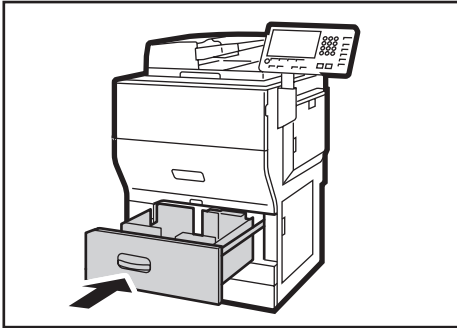
CWH097

2. Mount the inner tray on the rail and align the holes, and then secure it with the two screws.



CWH098

3. Push the tray back into the machine.

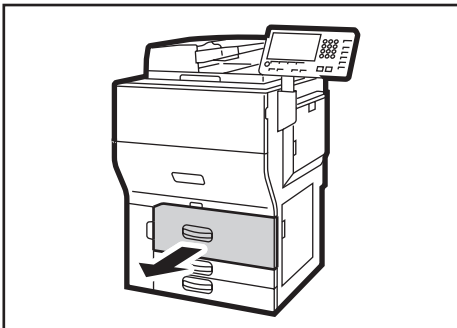


CWH099

Detaching Tray 1 (A3, 11 × 17 Tray Unit)

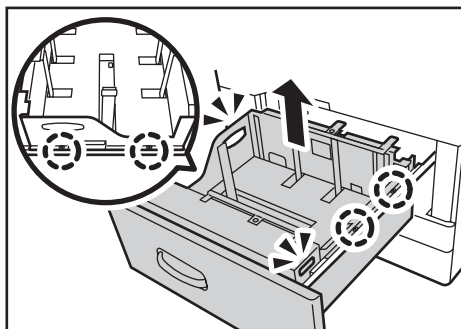
1. Pull open the tray until it stops.

Remove any paper in the tray.



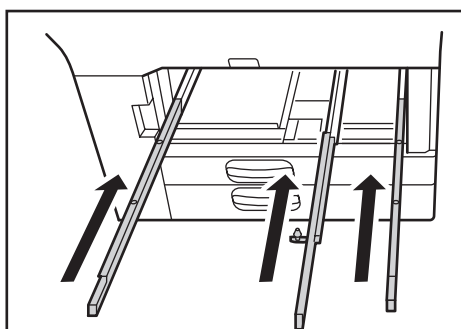
CWH094

2. Remove the four screws, and then lift the inner tray out of the drawer.



CWH100

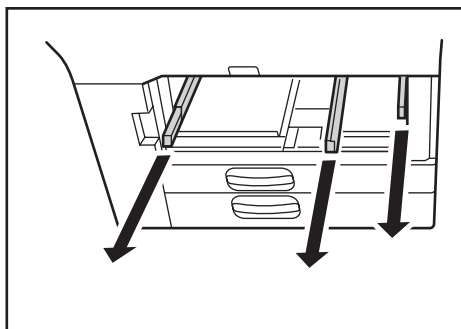
3. Push the guide rails back into the machine.



CWH101

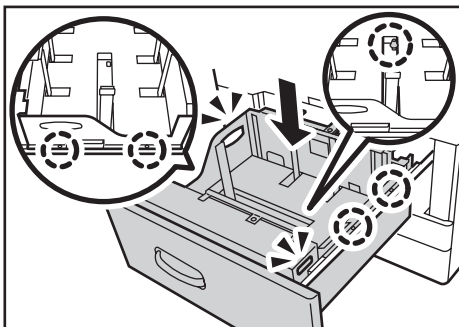
Attaching Tray 1 (A3, 11 × 17 Tray Unit)

1. Pull out the guide rails.



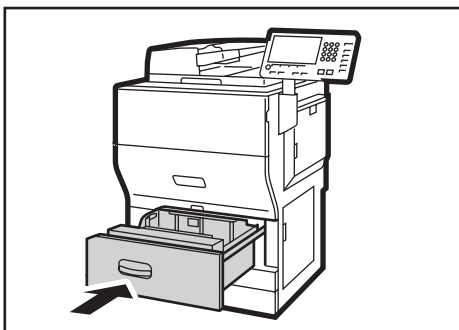
CWH102

2. Mount the inner tray on the guide rails, align it with the stud on the center guide rail and tapped holes in the side guide rails, and then secure it with four screws.



CWH103

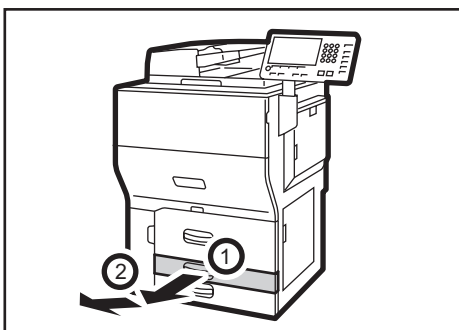
3. Push the tray back into the machine.



CWH104

Detaching the Tray 2 and Tray 3

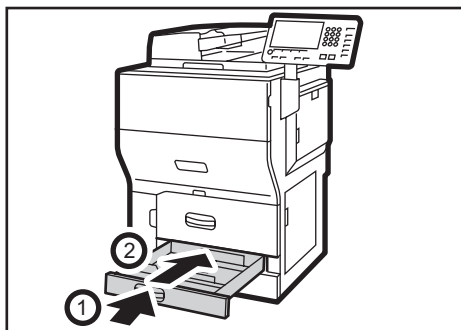
1. Pull the tray halfway out, lift it slightly (1), and then pull it out further (2).



CWH105

Attaching the Tray 2 and Tray 3

1. Push the tray back into the machine.

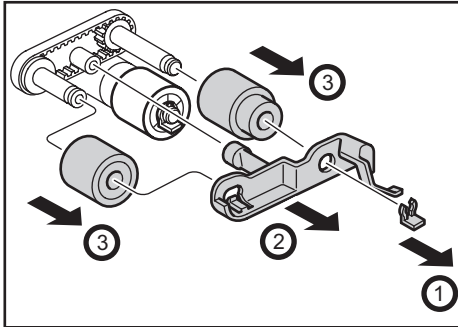


CWH106

Replacing the Rollers in Tray 1–3

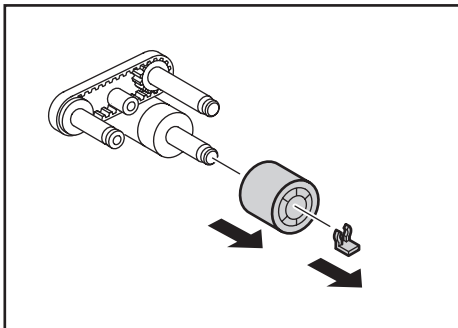
1. Remove the paper feed roller in the following order:

- (1) Snap ring
- (2) White component (molding)
- (3) Pick-up roller and feed roller



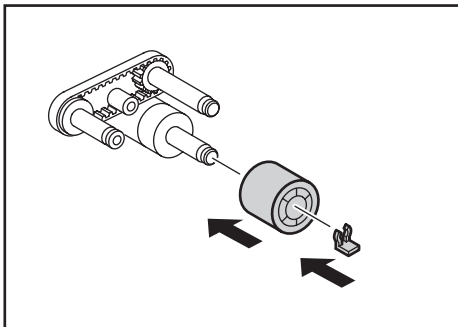
CWH107

2. Remove the snap ring and separation roller.



CWH108

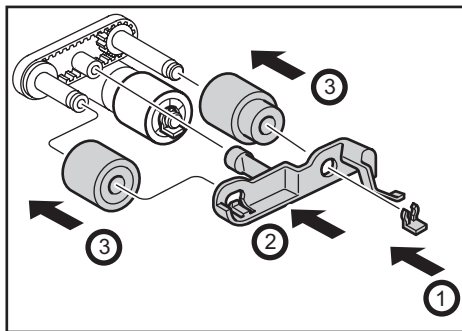
3. Attach the new separation roller and snap ring.



CWH109

4. Attach the new paper feed roller in the following order:

- (1) Feed roller and pick-up roller
- (2) White component (molding)
- (3) Snap ring



CWH110

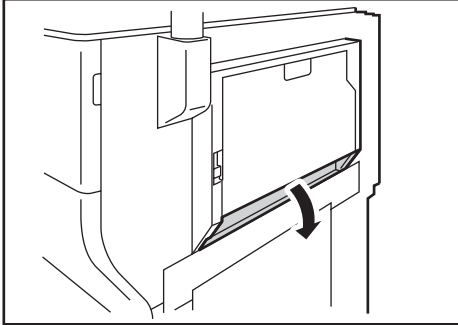
5. Reset the counter for replaceable parts.

Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

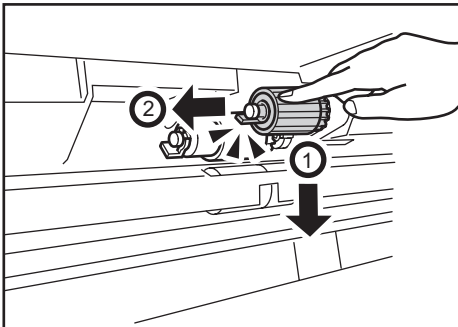
Replacing the Rollers in the Bypass Tray

1. Open the bottom part of the multi bypass tray.



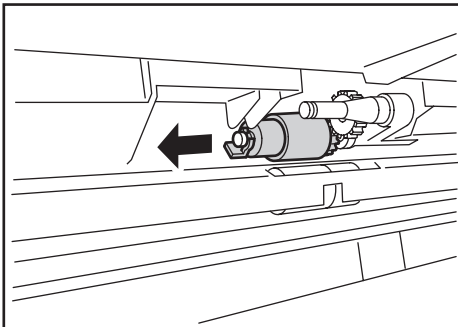
CWH167

2. Pull the shaft down, release the retainer, and then remove the pick-up roller.



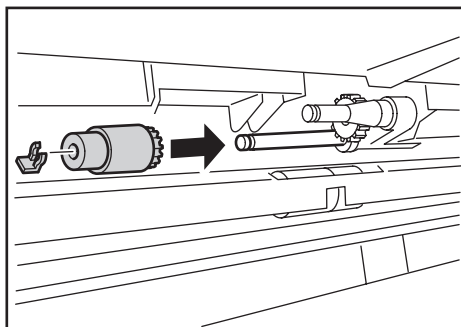
CWH112

3. Remove the snap ring and the feed roller.



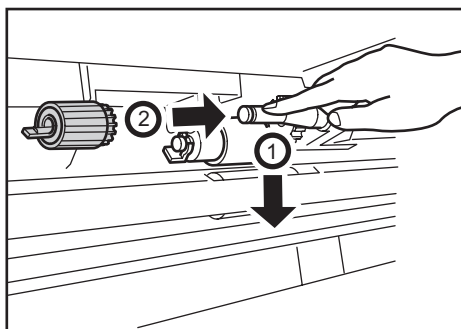
CWH168

4. Mount the new feed roller and the snap ring.



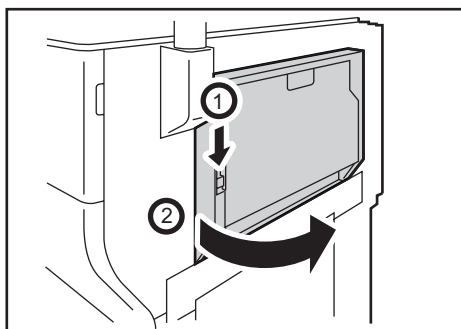
CWH169

5. Pull the shaft down and mount the new pick-up roller.



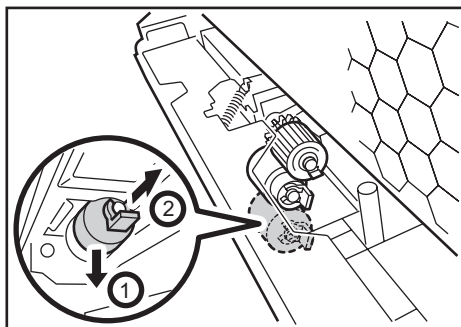
CWH121

6. Open the duplex unit.



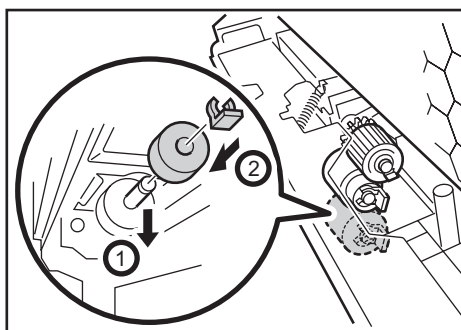
CWH113

7. Pull the separation roller shaft down and remove the snap ring and the separation roller.



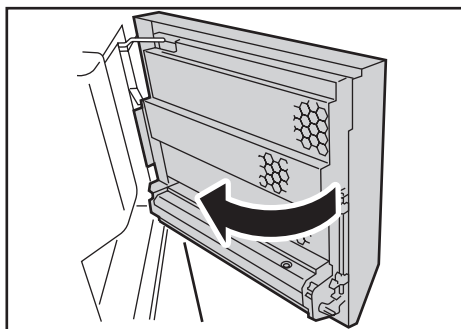
CWH116

8. Pull the separation roller shaft down and mount the new separation roller and the snap ring.



CWH117

9. Close the duplex unit.



CWH120

10. Reset the counter for replaceable parts.

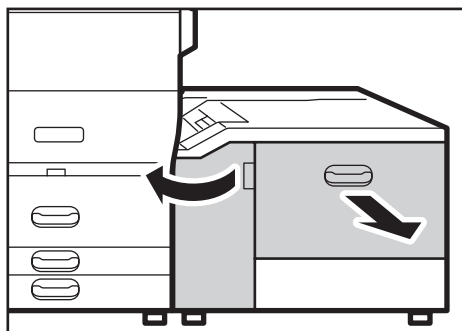
Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

Replacing the Rollers in the Wide LCT

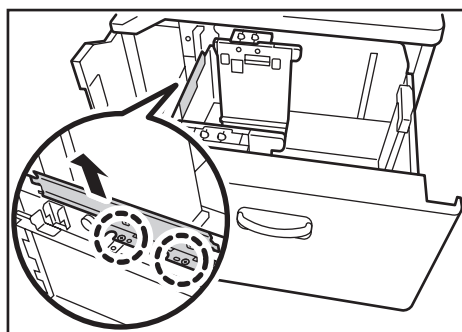
1. Open the wide LCT front cover, and pull open the tray until it stops.

Remove any paper in the tray. If the tray's bottom plate is up, press it down until it latches.



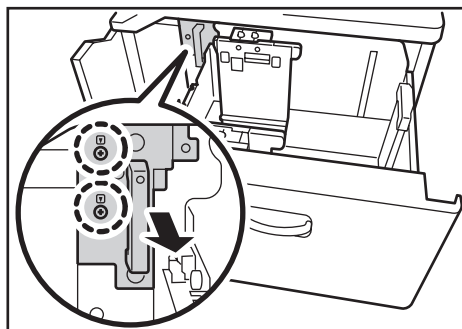
CWH195

2. Remove the two screws, and then remove the side plate.



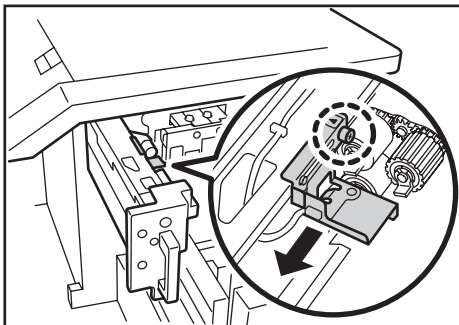
CWH124

3. Remove the two screws, and then pull out the paper feed unit until it stops.



CWH125

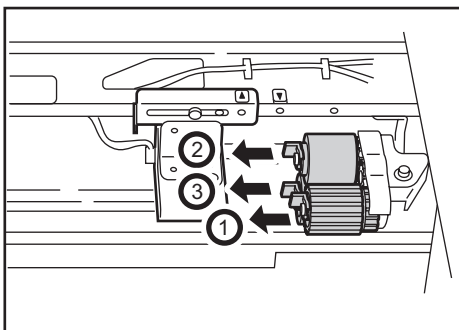
4. Remove the screw, and then slide the bracket to the front.



CWH126

5. Remove the paper feed roller in the following order:

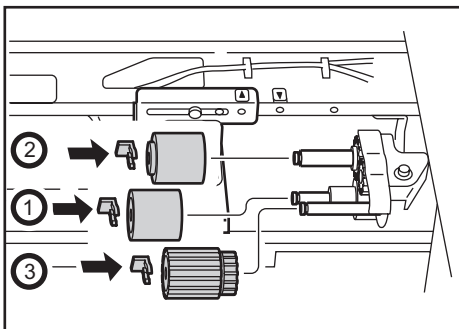
- (1) Pick-up roller snap ring and roller
- (2) Feed roller snap ring and roller
- (3) Separation snap ring and roller



CWH127

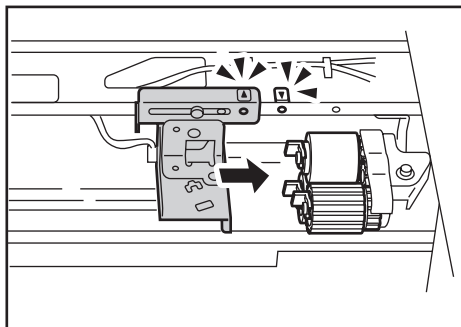
6. Attach the new paper feed roller in the following order:

- (1) Separation snap ring and roller
- (2) Feed roller snap ring and roller
- (3) Pick-up roller snap ring and roller



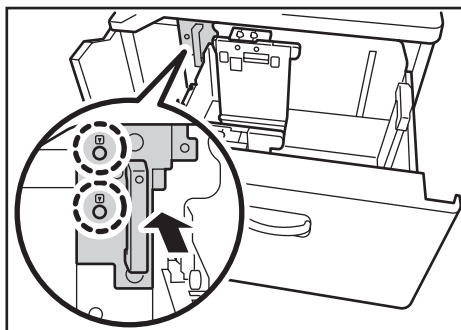
CWH128

7. Slide the bracket back to its original position, carefully align the screw hole with the triangular marking, and then secure it with the screw.



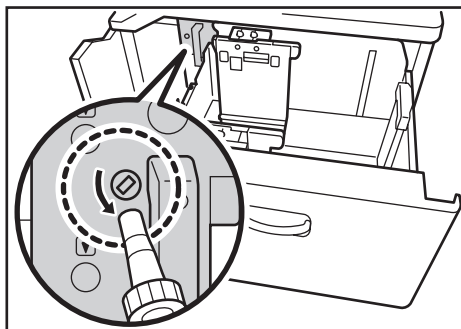
CWH129

8. Push the paper feed unit into the machine, and then secure it with the two screws.



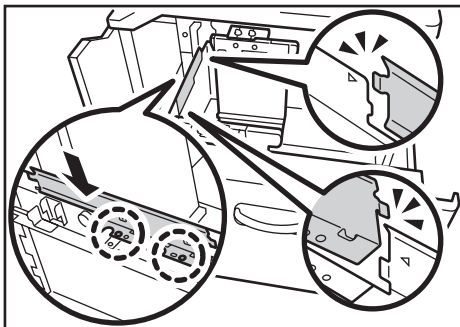
CWH130

If the paper feed unit cannot be pushed all the way in, turn the lever and keep pushing.



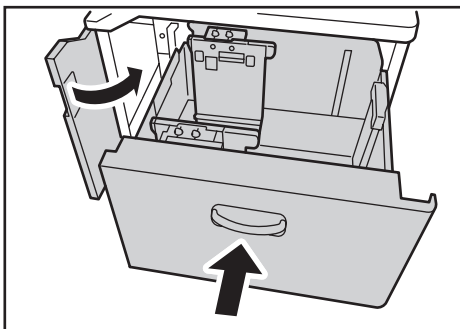
CWH174

9. Align the markers, and then secure the side plate with the two screws.



CWH131

10. Push the tray back into the machine, and then close the wide LCT front cover.



CWH132

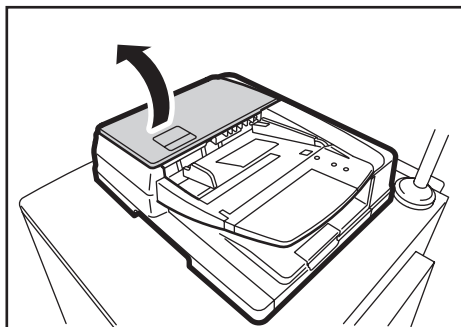
11. Reset the counter for replaceable parts.

Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

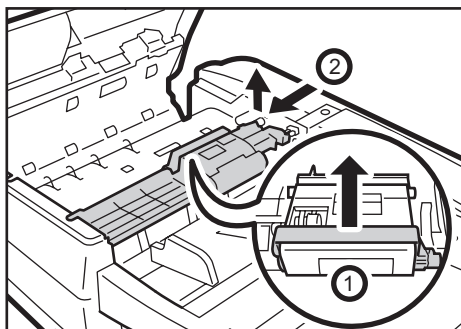
Replacing the Rollers in the ADF

1. Open the ADF cover.



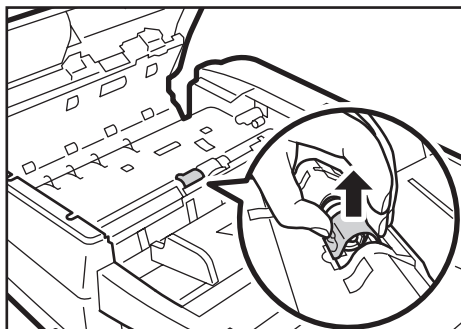
CWH133

2. Remove the retaining plate, pull the shaft toward the front of the machine to detach it, and then remove the paper feed unit.



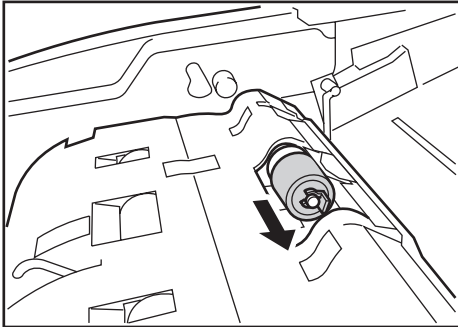
CWH134

3. Remove the separation roller cover.



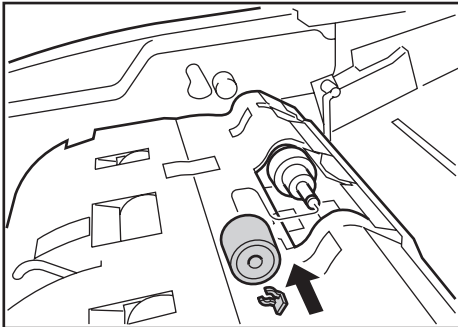
CWH135

4. Remove the separation snap ring and roller.



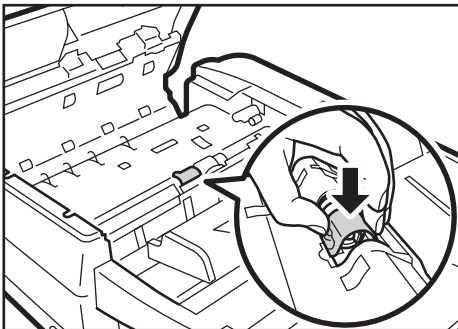
CWH136

5. Mount the new separation roller and the snap ring.



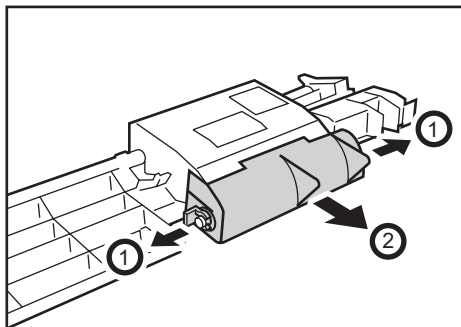
CWH137

6. Reattach the separation roller cover.



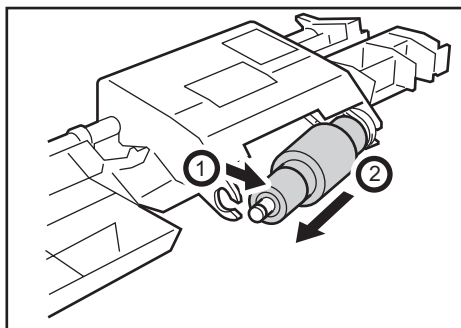
CWH138

7. Remove the two pick-up roller's snap rings and bearings, and then remove the pick-up roller cover.



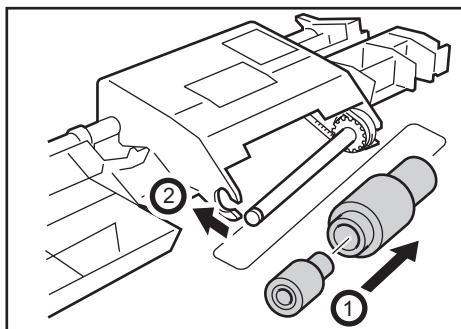
CWH139

8. Disengage the shaft, remove the white component, and then remove the pick-up roller.



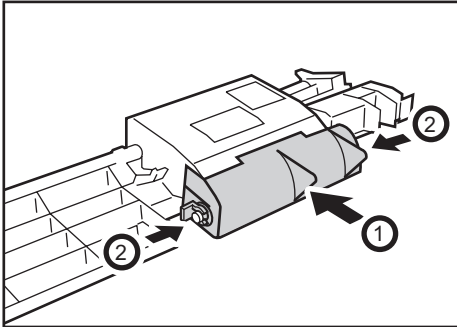
CWH140

9. Mount the new pick-up roller and reattach the white component and the shaft.



CWH141

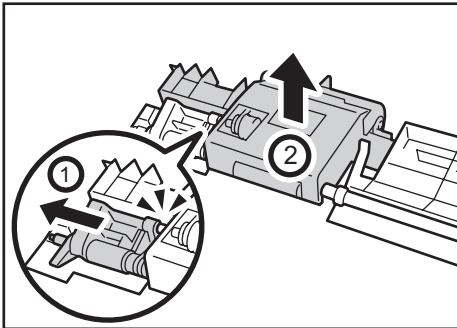
10. Attach the cover, and then fit the two bearings and snap rings.



CWH142

11. Pull the white component away and remove the component containing the pick-up roller.

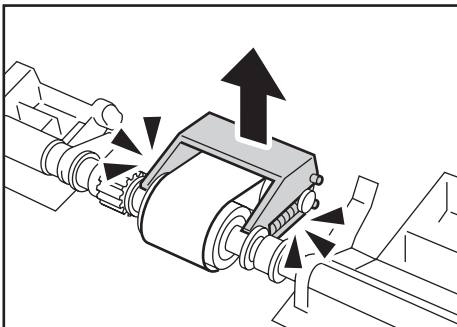
Be sure to pull the white component away from the component containing the pick-up roller when you remove it. If you try to remove it forcefully, you may damage it.



CWH143

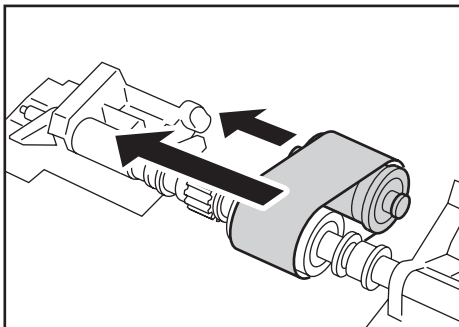
12. Remove the paper feed belt cover.

The paper feed belt cover's spring comes off easily. Be careful not to lose it.



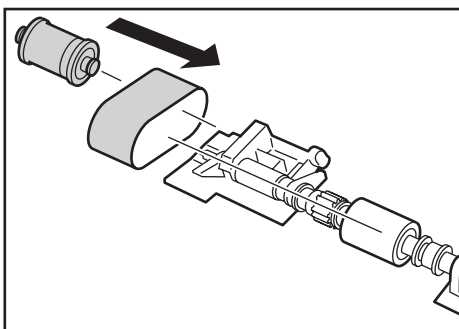
CWH144

- 13. Remove the idler roller and the paper feed belt.**



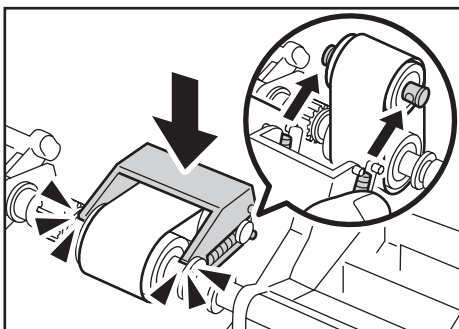
CWH145

- 14. Install the new paper feed belt and reattach the idler roller.**



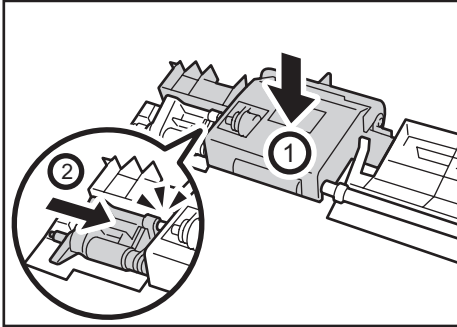
CWH146

- 15. Install the idler roller and the paper feed belt cover by inserting the cover's bars into the holes in the idler roller's shaft.**



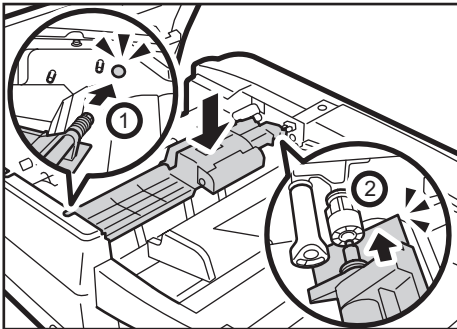
CWH147

16. Attach the component containing the pick-up roller, and then pull the white component and insert the stud into it.



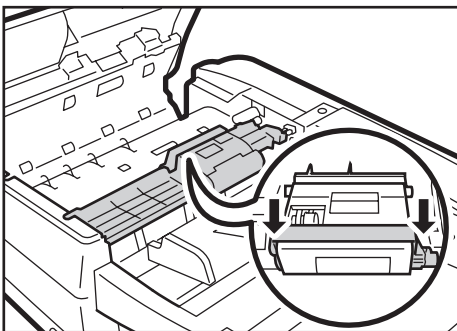
CWH148

17. Install the paper feed unit by inserting the end of the left shaft into the hole and the end of the right shaft into the white component.



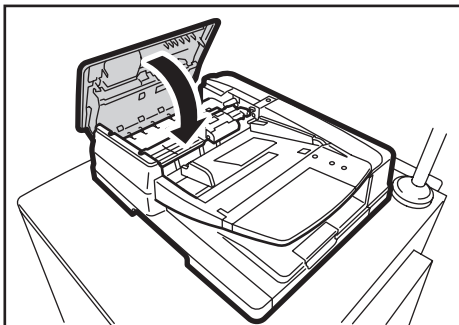
CWH149

18. Reattach the stopper.



CWH150

19. Close the ADF cover.



CWH151

20. Reset the counter for replaceable parts.

Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

3. Photoconductor Unit

Before You Begin

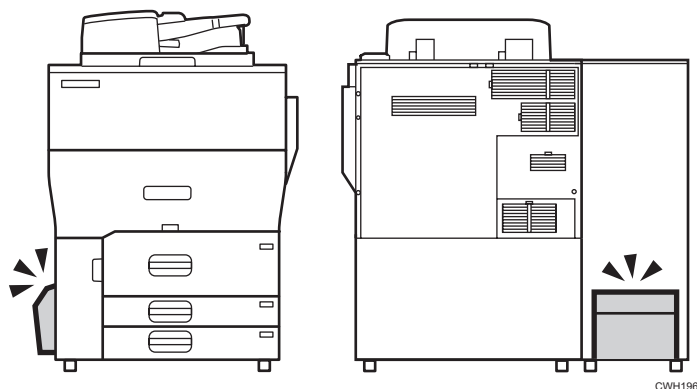
★ Important

- The surface of a drum is sensitive to light.
- Exposing the surface of a drum to strong light (especially direct sunlight) can permanently damage it.

What You Need

- Hex screwdriver
- Newspaper or other paper
- Photoconductor stand

The stand is in the box at the bottom of the machine or on the back of the finisher.



Replacement Message

- "Replacement Required:Cleaning Unit for Photoconductor Unit"
"Black, Cyan, Magenta, Yellow"
The color corresponding to the unit that needs to be replaced appears.
- "Replacement Required:Charge Roller Unit"
"Black, Cyan, Magenta, Yellow"
The color corresponding to the unit that needs to be replaced appears.

Print the counter list.

1. Press the [Counter] key and print out the counter list.

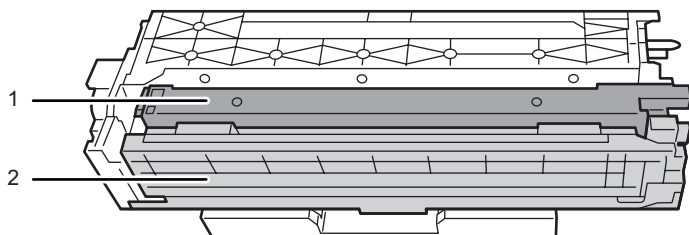
See page 18 "Control Panel".

2. Turn the machine off.

See page 19 "Turning Off/On the Power".

Replaceable Parts

3



CWH185

1. Charge roller unit
2. Cleaning unit for photoconductor unit

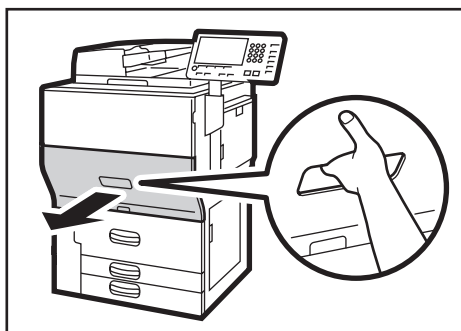
Detaching and Attaching the Toner Unit

CAUTION

- The toner unit weighs approximately around 16.0 kg (35.3 lb).
- When moving the toner unit, lift it slowly and do not strain your body. Careless handling and over exertion when lifting can result in breakage and/or injury.

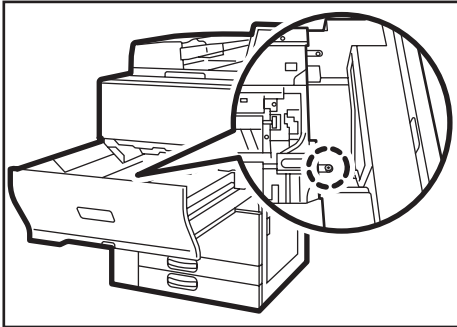
Detaching the Toner Unit

1. Pull out the drawer until it stops.



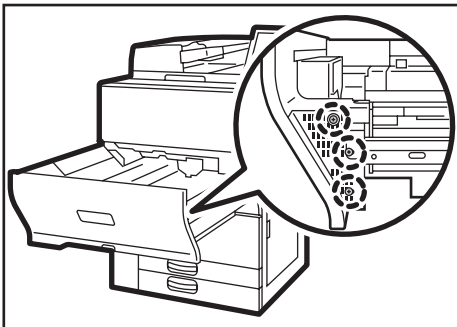
CWH001

2. Remove the screw.



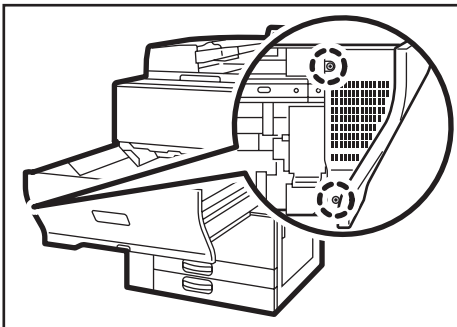
CWH022

3. Remove the three screws.



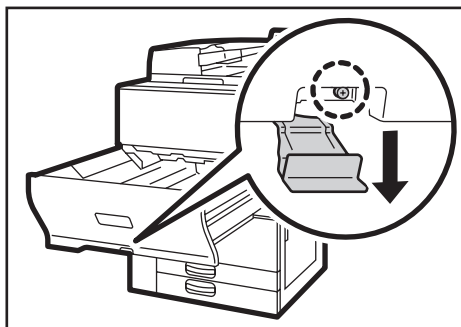
CWH023

4. Remove the two screws.



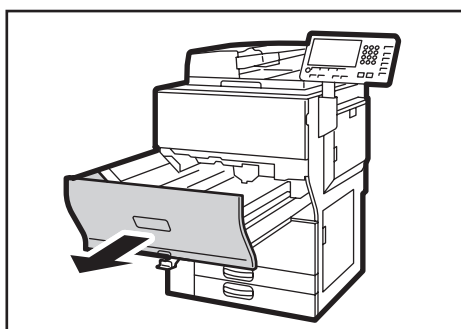
CWH024

5. Push the drawer catch down, and then remove the screw.



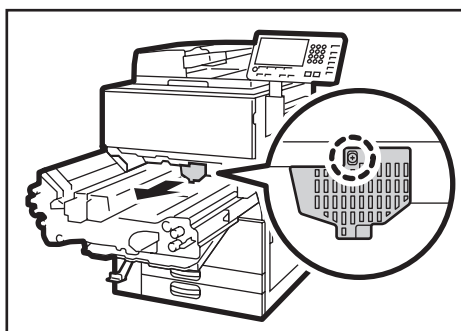
CWH025

6. Remove the drawer cover.



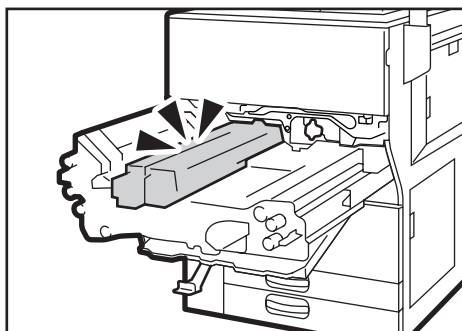
CWH026

7. Remove the screw, and then remove the cover of the cleaning unit for intermediate transfer belt.



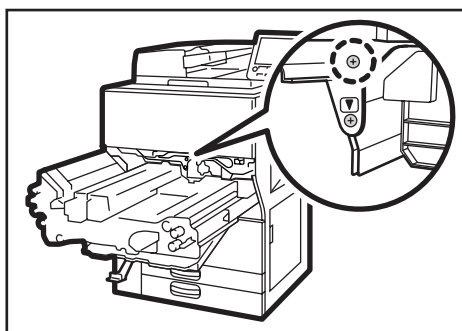
CWH500

Be careful not to touch the fusing unit because it may be extremely hot.



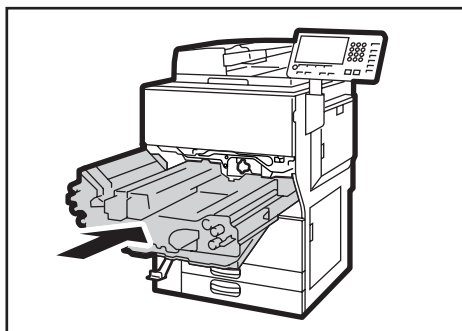
CWH501

8. Remove the screw.



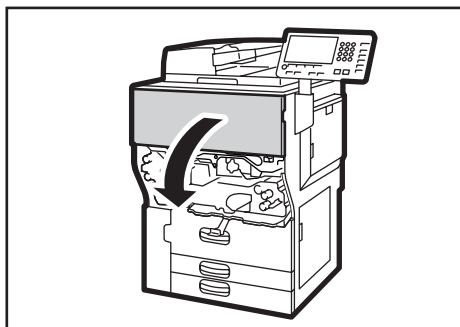
CWH003

9. Push the drawer back into the machine.



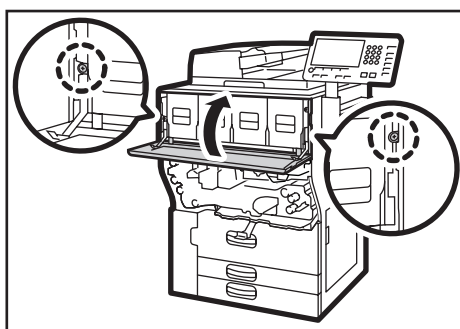
CWH502

10. Open the front cover.



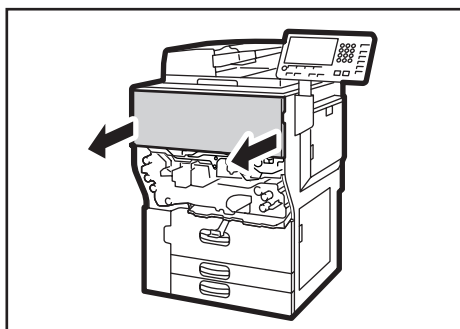
CWH004

11. Remove the two screws, and then close the front cover.

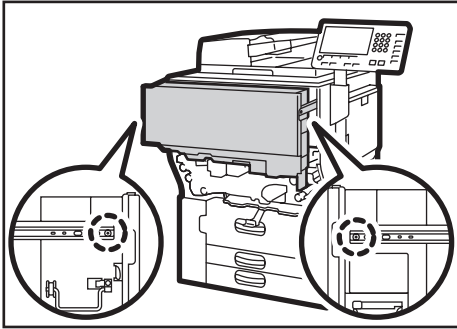
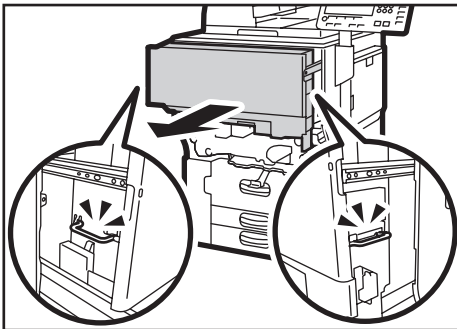
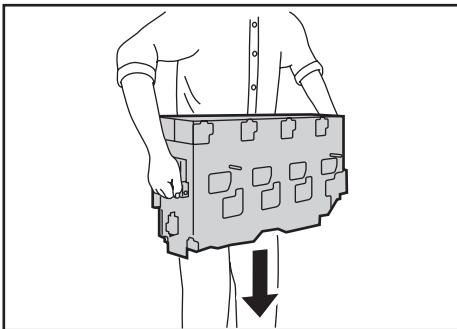


CWH005

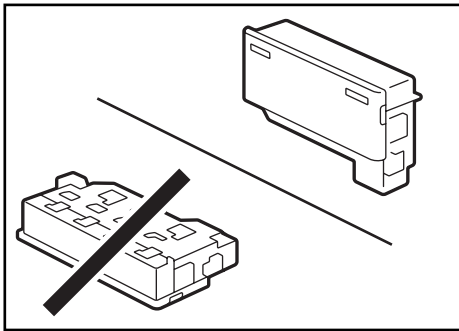
12. Pull out the toner until it stops.



CWH006

13. Remove the two screws.**14. Holding the grips, pull the toner unit out.****15. Place the toner unit.**

Do not place the toner unit on its side. Doing so may cause the toner to spill.

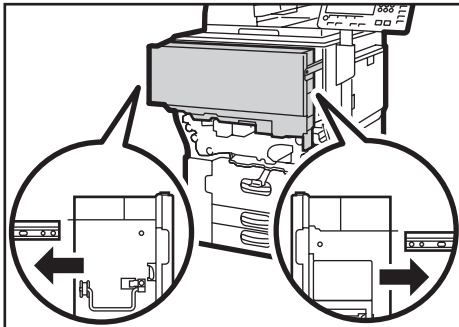


cwh171

3

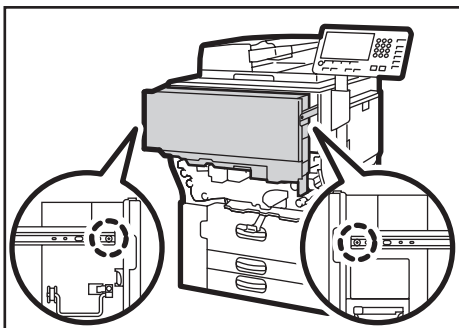
Attaching the Toner Unit

1. Holding the grips, attach the toner unit to the guide rails.



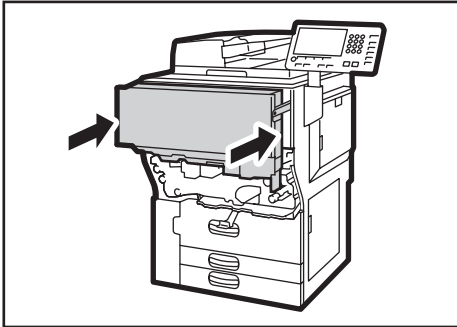
CWH010

2. Secure the toner unit with the two screws.



CWH007

3. Push the toner until back into the machine.



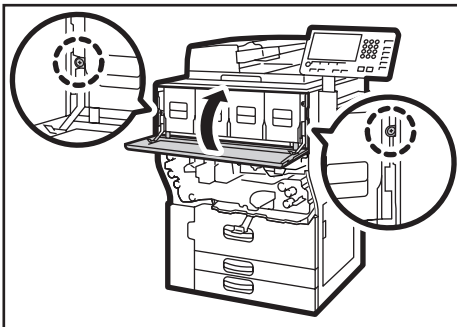
CWH011

4. Open the front cover.



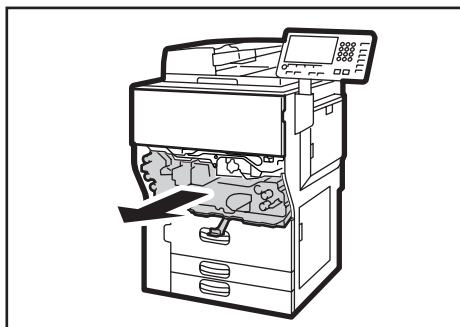
CWH004

5. Secure the toner unit with the two screws, and then close the front cover.



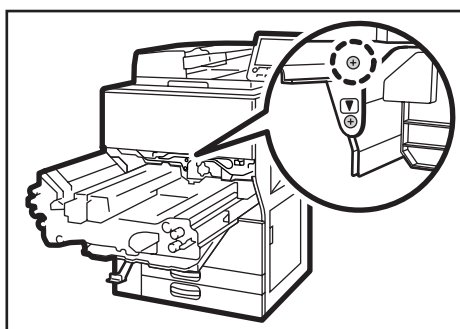
CWH005

6. Pull out the drawer until it stops.



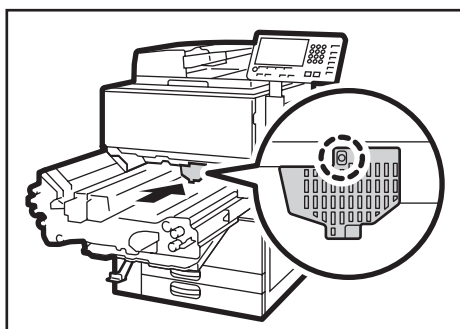
CWH503

7. Secure the toner unit with the screw.



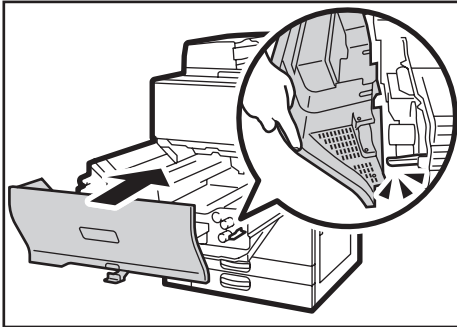
CWH003

8. Reattach the cover of the cleaning unit for intermediate transfer belt, and then secure it with the screw.



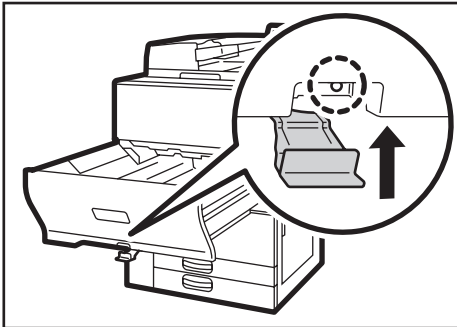
CWH504

9. Engage the drawer cover with the guide rails.



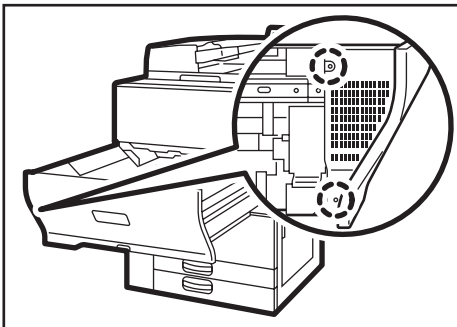
CWH027

10. Secure the drawer cover with the screw, and then push the drawer catch up.



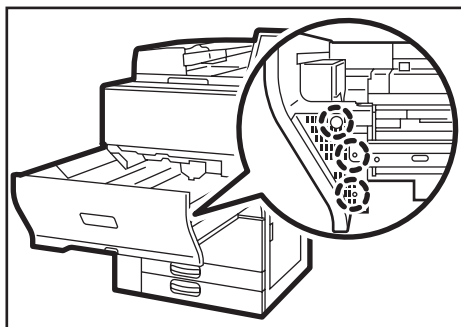
CWH028

11. Secure the drawer cover with the two screws.



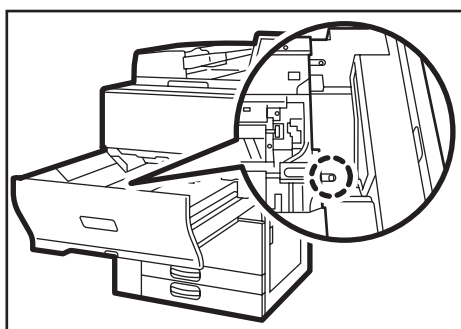
CWH029

12. Secure the drawer cover with the three screws.



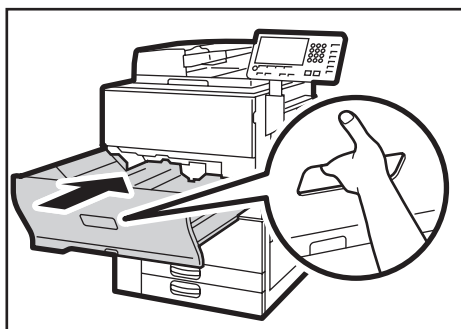
CWH030

13. Secure the drawer cover with the screw.



CWH031

14. Push the drawer back into the machine.



CWH013

Replacing the Charge Roller Unit / Cleaning Unit for Photoconductor Unit

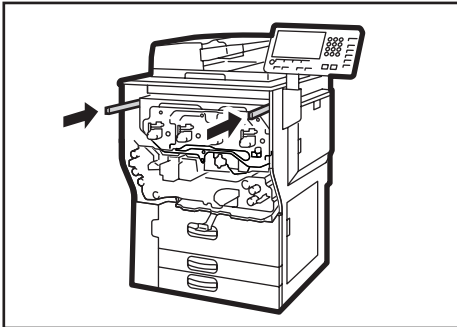
1. Take out the photoconductor stand.

The stand is in the box at the bottom of the machine or on the back of the finisher.

2. Detaching the toner unit.

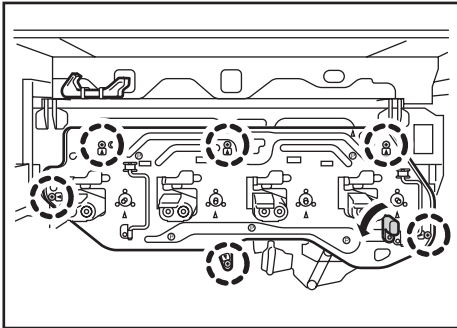
See, page 54 "Detaching and Attaching the Toner Unit"

3. Push the guide rail into the machine.



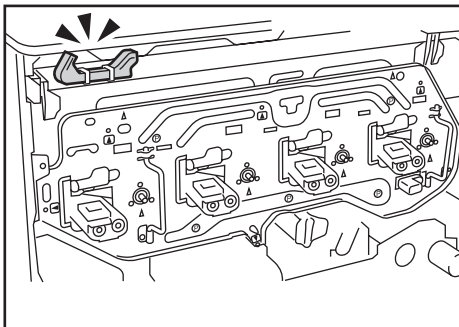
CWH014

4. Pull down the lever, and then remove the six screws.



CWH016

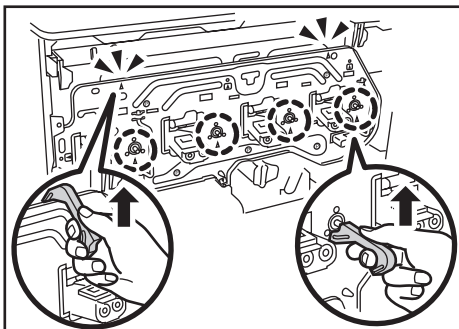
5. Remove the pry bar.



CWH179

6. Engage the pry bar at the points indicated and pull out the faceplate.

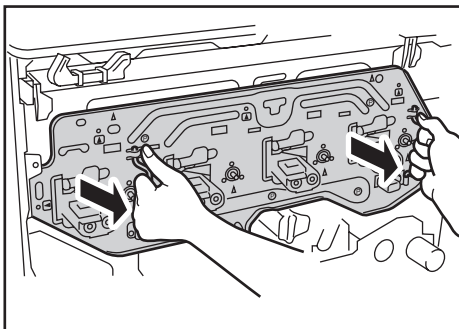
Pull the faceplate out slowly and evenly.



CWH018

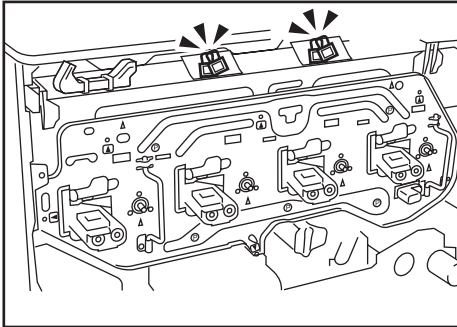
7. Reattach the pry bar back to its original position.

8. Holding the grips, remove the faceplate.



CWH019

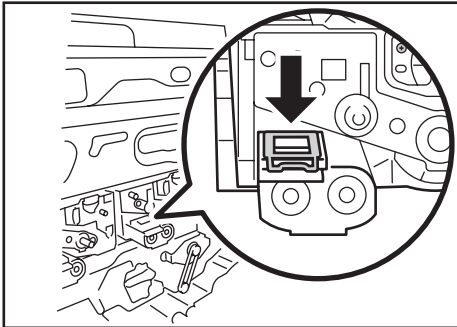
9. Remove the cap.



CWH199

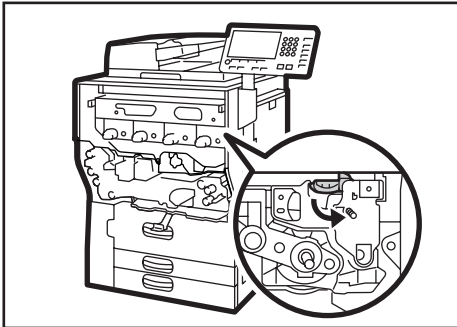
10. Put the cap on the photoconductor unit.

Be sure to put the cap on to prevent the developer spilling during replacement.



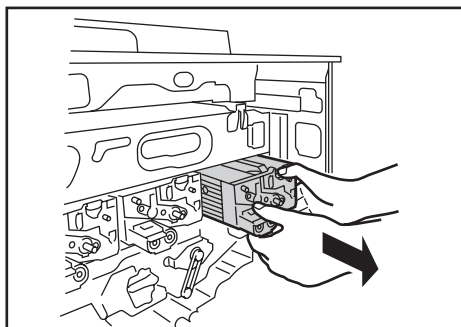
CWH300

11. Press down on the lock lever.



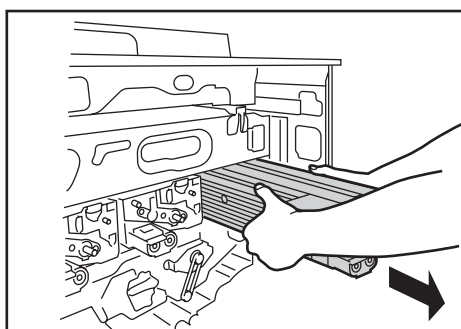
CWH032

- 12. Pulling the lock lever down, pull out the photoconductor unit.**



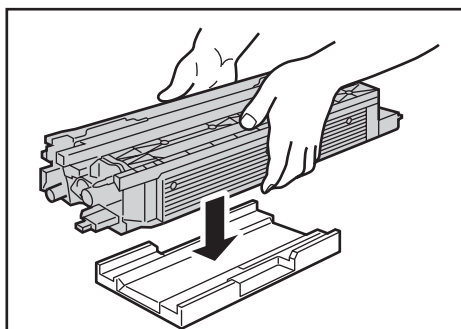
CWH033

- 13. Hold the center of the photoconductor unit and pull it all the way out.**



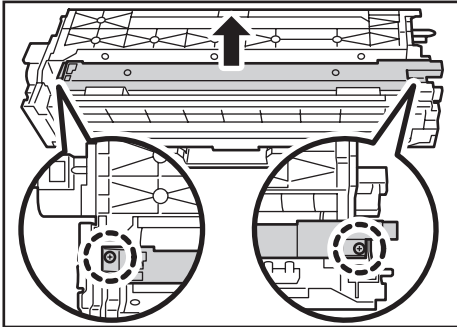
CWH034

- 14. Place the photoconductor unit on its stand.**



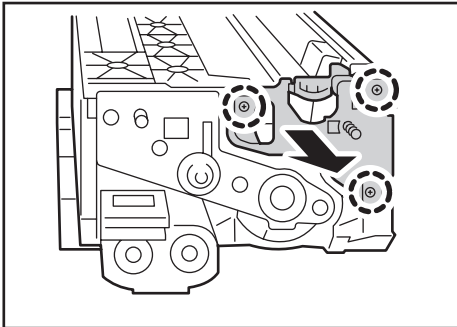
CWH035

15. Remove the two screws, and then remove the charge roller unit.



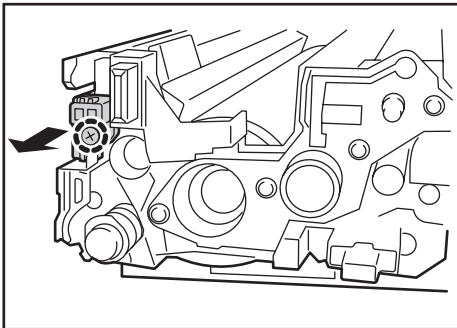
CWH038

16. Remove the three screws, and then remove the faceplate.



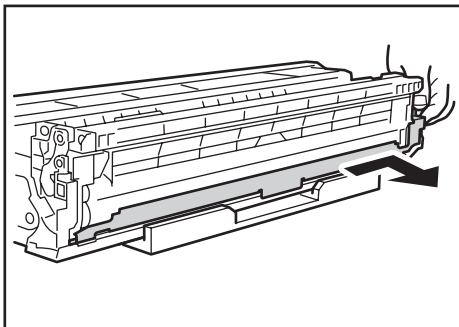
CWH039

17. Remove the screw, and then remove the faceplate.



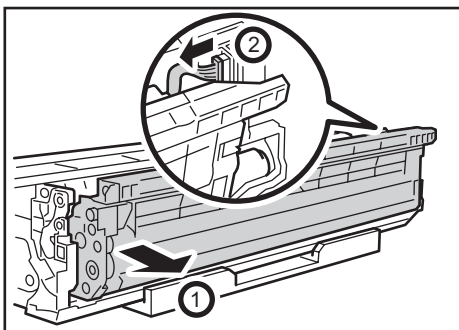
CWH040

18. Remove the support plate.



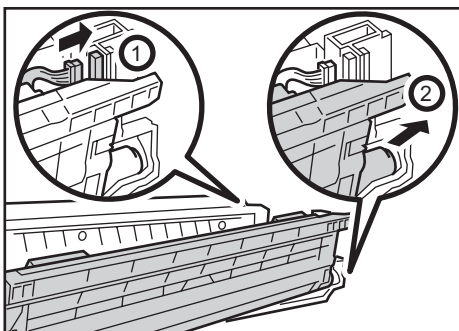
CWH043

19. Detach the front end of the cleaning unit for photoconductor unit and disconnect its connector, and then remove the cleaning unit for photoconductor unit.



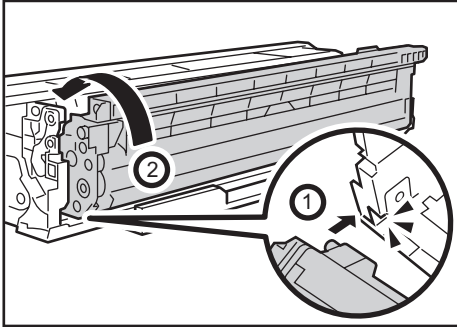
CWH044

20. Reattach the connector, and then set the photoconductor unit's waste toner outlet diagonally.



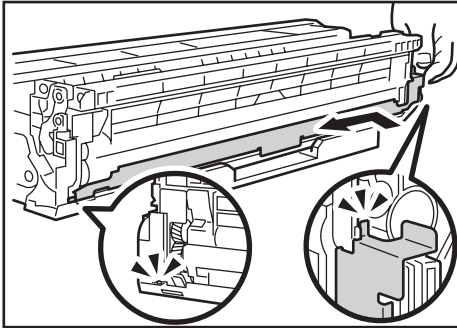
CWH048

21. Mount the cleaning unit for the photoconductor unit by attaching the opposite side with the notch.



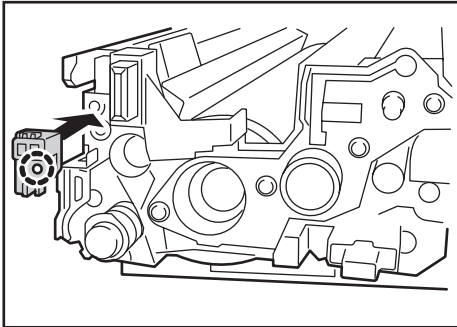
CWH049

22. Engage the support plate with the notches and attach it.



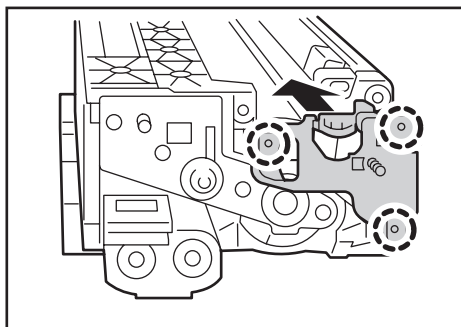
CWH050

23. Reattach the faceplate, and then secure it with the screw.



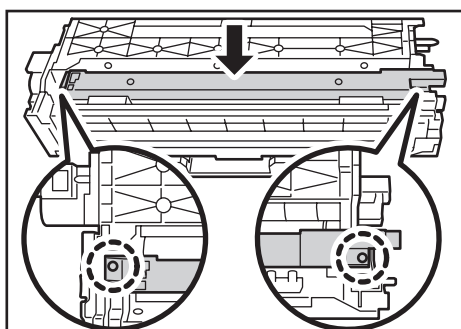
CWH041

24. Reattach the faceplate, and then secure it with the three screws.



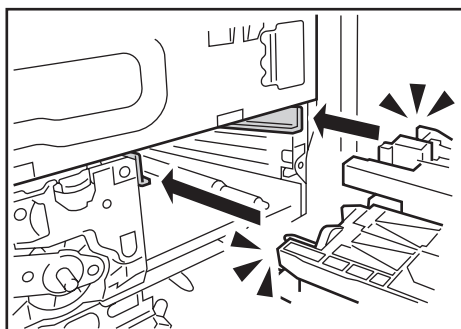
CWH042

25. Attach the new charge roller unit, and then secure it with the two screws.



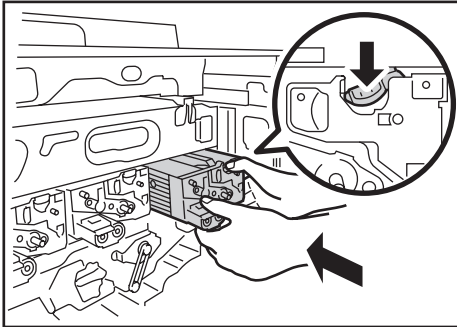
CWH052

26. Engage the photoconductor unit with the guide rails, and then partially insert it.



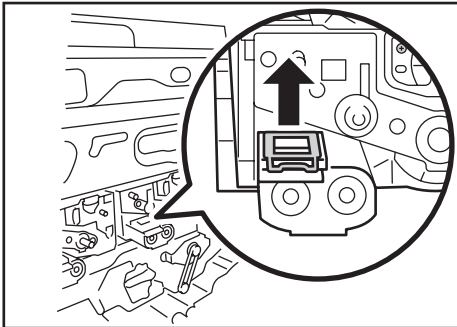
CWH036

- 27. Pull the lock lever down, and then push the photoconductor unit all the way in.**



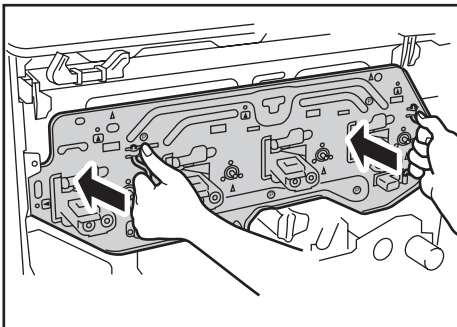
CWH037

- 28. Remove the cap and reattach it in its original position.**



CWH301

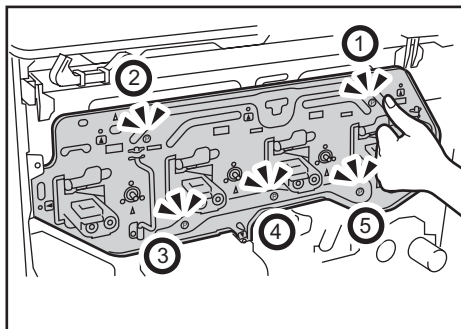
- 29. Reattach the faceplate.**



CWH020

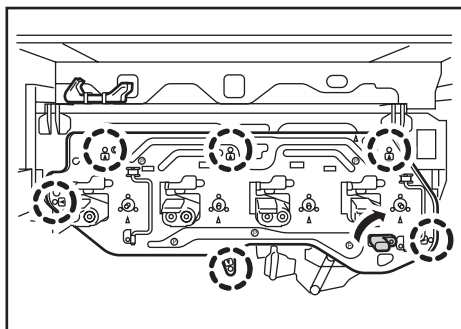
- 30. Press the indicated parts in sequence.**

Push the faceplate in slowly and evenly.

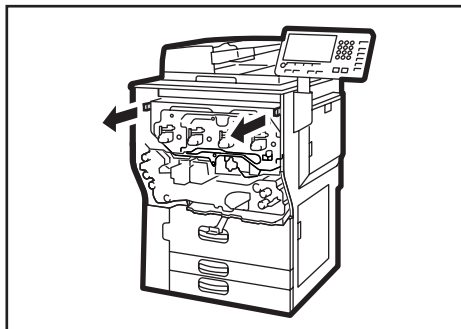


3

31. Secure the faceplate with six screws, and then pull the lever up.



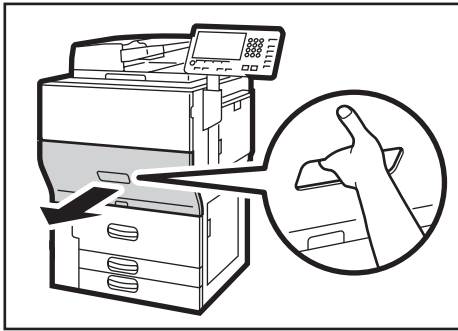
32. Pull out the guide rail.



33. Attaching the toner unit.

See, page 54 "Detaching and Attaching the Toner Unit"

- 34. Pull out the drawer until it stops.**



CWH001

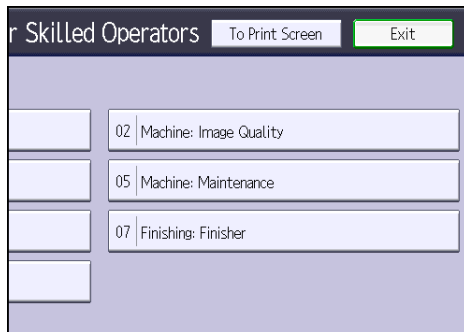
3

- 35. Turn the machine on.**

- 36. Access the Adjustment Settings for Skilled Operators menu.**

See "Adjustment Settings for Skilled Operators", Adjustment Item Menu Guide: TCRU/ORU.

- 37. Press [Machine: Image Quality].**



- 38. Press [Adjust Image Density/ DEMS].**

- 39. Press [Execute DEMS].**

- 40. Press [OK].**

- 41. Reset the counter for replaceable parts.**

See page 23 "Resetting the Replaceable Parts Counter".

4. Cleaning Unit for Intermediate Transfer Belt

Before You Begin

What You Need

- Hex screwdriver
- Newspaper or other paper

Replacement Message

"Replacement Required:Intermed. Trans. Belt Cleaning Unit"

4

Print the counter list.

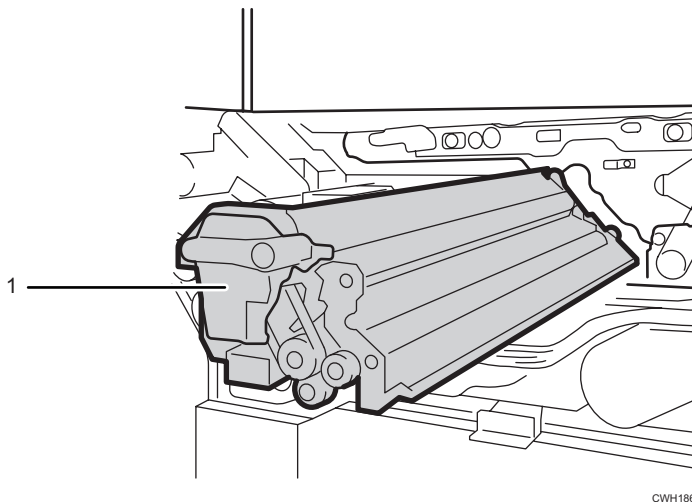
1. Press the [Counter] key and print out the counter list.

See page 18 "Control Panel".

2. Turn the machine off.

See page 19 "Turning Off/On the Power".

Replaceable Parts

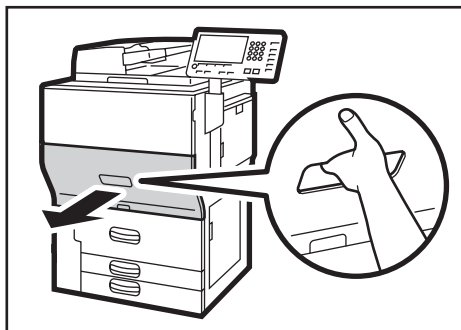


CWH186

1. Cleaning unit for intermediate transfer belt

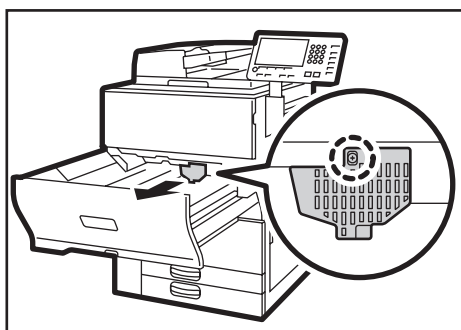
Replacing the Cleaning Unit for Intermediate Transfer Belt

1. Pull out the drawer until it stops.



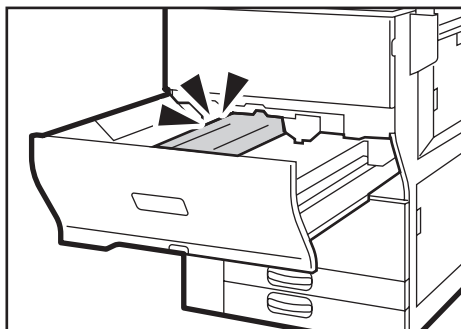
CWH001

2. Remove the screw, and then remove the cover of the cleaning unit for intermediate transfer belt.



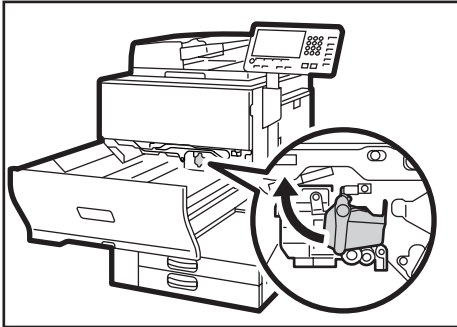
CWH002

Be careful not to touch the fusing unit because it may be extremely hot.



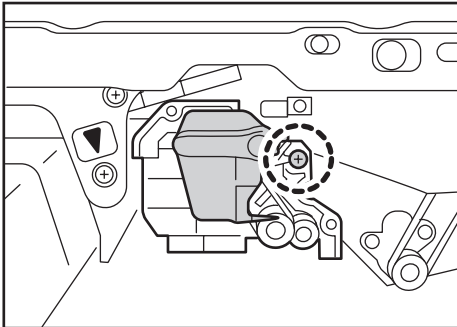
CWH197

3. Pull up the lever.



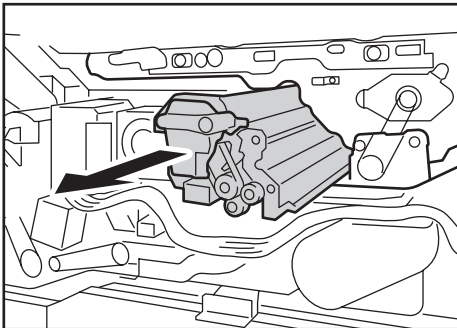
CWH053

4. Remove the screw.



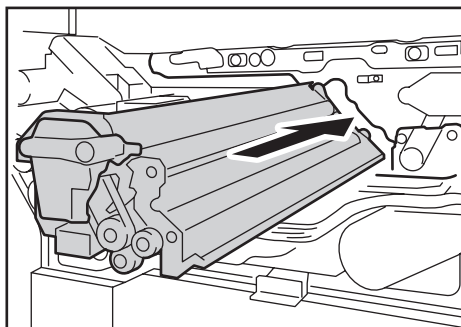
CWH054

5. Pull out the cleaning unit for intermediate transfer belt.



CWH055

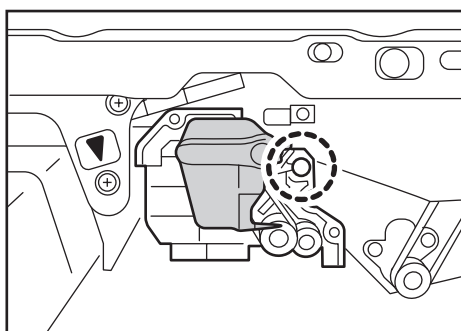
6. Push the new cleaning unit for intermediate transfer belt back into the machine.



CWH056

4

7. Secure the cleaning unit for intermediate transfer belt with the screw.



CWH057

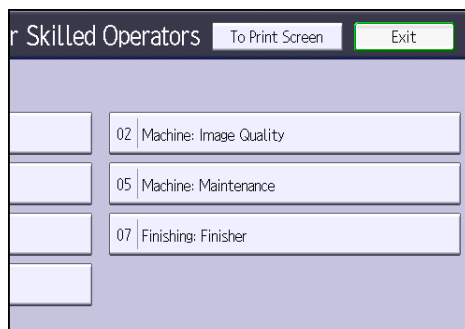
8. Turn the machine on.

Before turning the machine on, make sure the lever is pulled up, the cover of the cleaning unit for intermediate transfer belt is removed, and the drawer is pulled out.

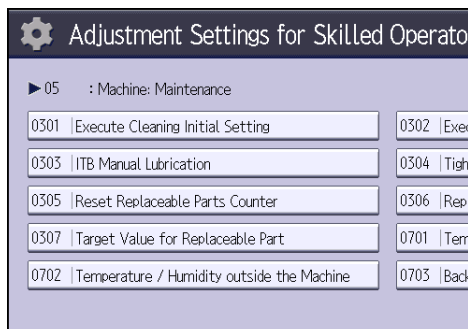
9. Access the Adjustment Settings for Skilled Operators menu.

See "Adjustment Settings for Skilled Operators", Adjustment Item Menu Guide: TCRU/ORU.

10. Press [Machine: Maintenance].



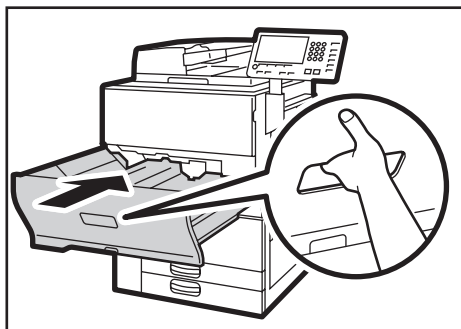
11. Press [ITB Manual Lubrication].



12. Press [Execute ITB Manual Lubrication].

13. Press [OK].

14. Push the drawer back into the machine.

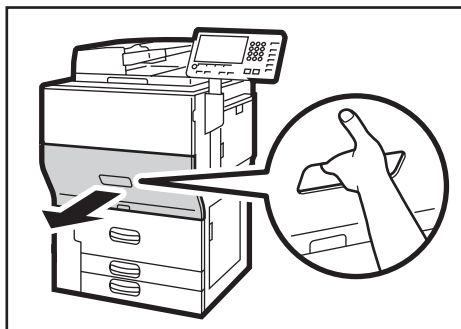


CWH013

Lubrication starts.

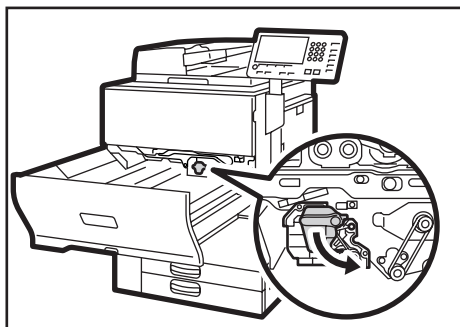
15. Once lubrication is complete (after about three minutes), turn the machine off.

16. Pull out the drawer until it stops.



CWH001

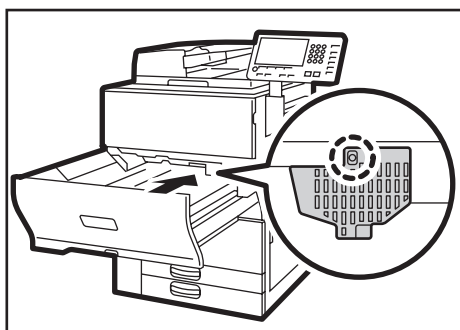
17. Pull down the lever.



CWH198

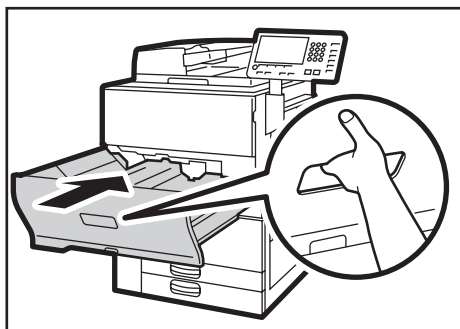
4

18. Reattach the cover of the cleaning unit for intermediate transfer belt, and then secure it with the screw.



CWH012

19. Push the drawer back into the machine.



CWH013

20. Reset the counter for replaceable parts.

Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

5. Transfer Unit

Before You Begin

What You Need

- Hex screwdriver
- Newspaper or other paper

Replacement Message

"Replacement Required:Transfer Roller"

If this message appears, replace the transfer roller and discharge needles.

Print the counter list.

1. Press the [Counter] key and print out the counter list.

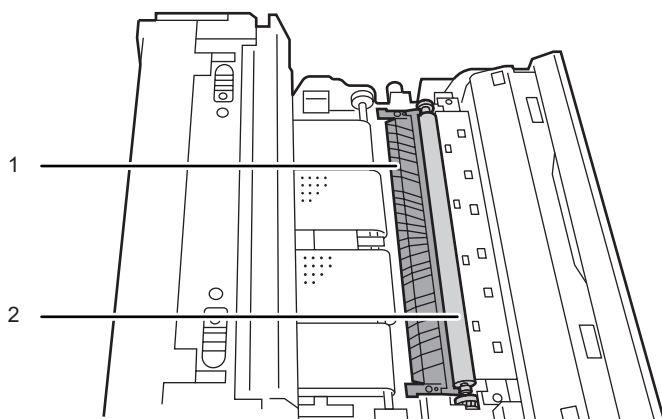
See page 18 "Control Panel".

2. Turn the machine off.

See page 19 "Turning Off/On the Power".

5

Replaceable Parts

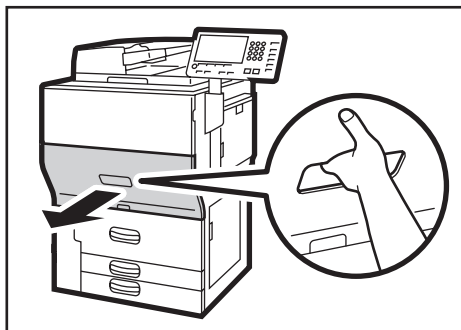


CWH187

1. Discharge needles
2. Transfer roller

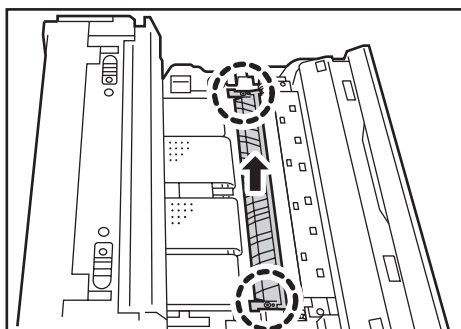
Replacing the Discharge Needles and the Transfer Unit

1. Pull out the drawer until it stops.



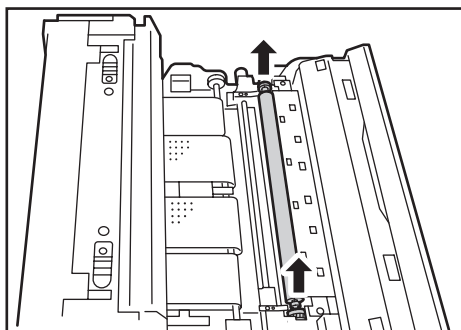
CWH001

2. Remove the two screws, and then remove the discharge needles.



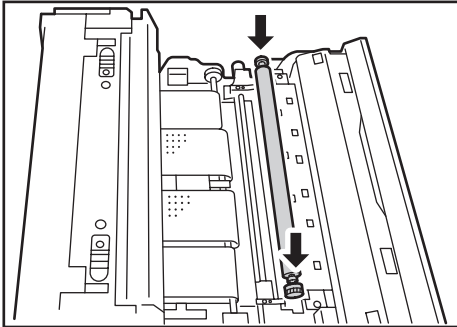
CWH070

3. Remove the transfer roller.



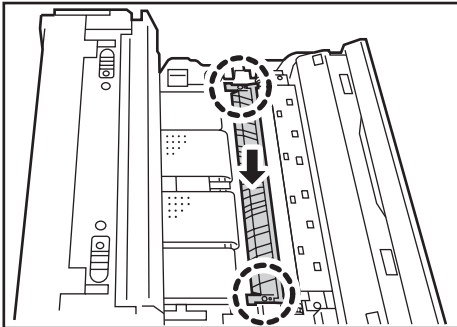
CWH071

4. Attach the new transfer roller.



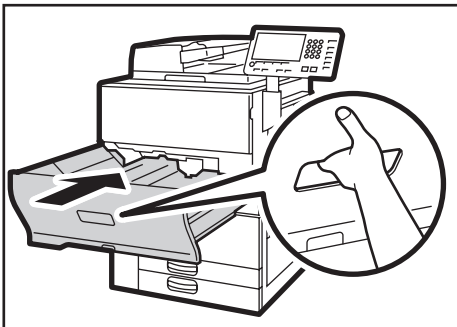
CWH072

5. Attach the new discharge needles, and then secure it with the two screws.



CWH073

6. Push the drawer back into the machine.



CWH013

7. Reset the counter for replaceable parts.

Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

6. Fusing Unit

Before You Begin

CAUTION

- The fusing unit becomes extremely hot during operation. To prevent minor burns, allow the machine to cool for at least 30 minutes before you remove the fusing unit.

CAUTION

- The fusing unit weighs approximately around 15.0 kg (33.1 lb).
- When moving the fusing unit, lift it slowly and be careful not to strain yourself. Careless handling or over-exertion when lifting can result in breakage of the unit or injury to yourself.

What You Need

- Hex screwdriver
- Newspaper or other paper

Replacement Message

- "Replacement Required:Fusing Unit"
If this message appears, replace the fusing belt smoothing roller.
- "Replacement Required:Cleaning Unit for Fusing Unit"
- "Replacement Required:Fusing Assembly"

Print the counter list.

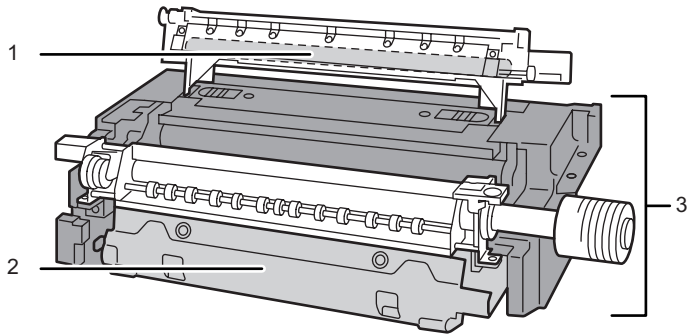
1. Press the [Counter] key and print out the counter list.

See page 18 "Control Panel".

2. Turn the machine off.

See page 19 "Turning Off/On the Power".

Replaceable Parts



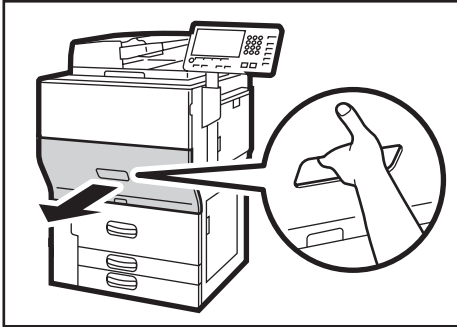
CWH188

6

1. Fusing belt smoothing roller
2. Cleaning unit for the fusing unit
3. Fusing assembly

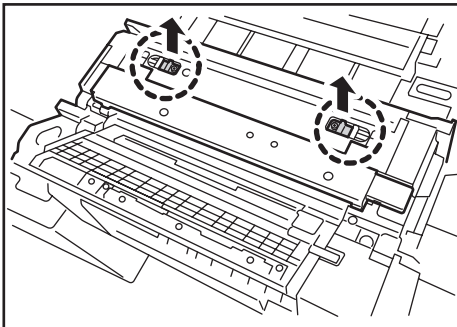
Replacing the Fusing Belt Smoothing Roller

1. Pull out the drawer until it stops.



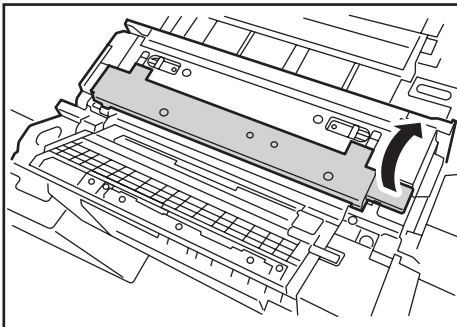
CWH001

2. Remove the two screws, and then remove the two stopper.



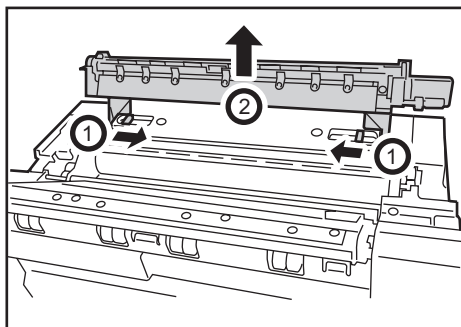
CWH058

3. Open the fuser separation unit.



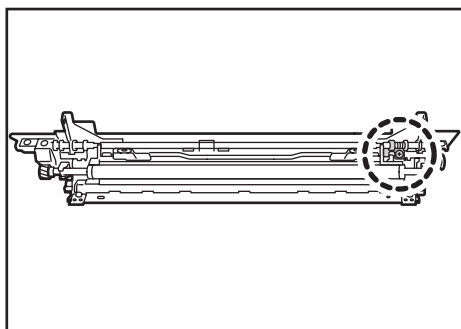
CWH059

4. Release the two catches, and then remove the fuser separation unit.



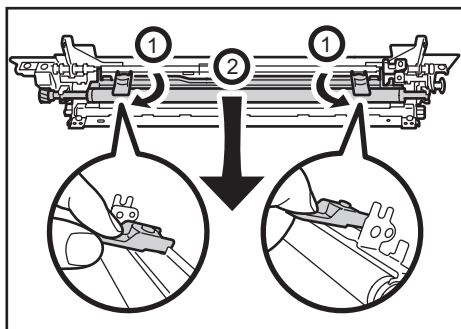
CWH060

5. Remove the screw.



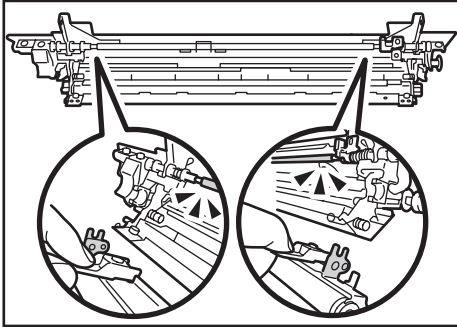
CWH064

6. Pull out the folding tabs and use them as grips to remove the fusing belt smoothing roller by pulling the roller down and up toward you in an arc.



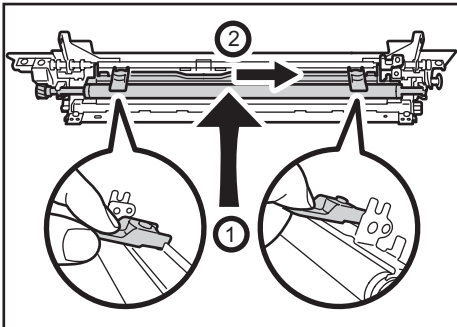
CWH065

7. Using the folding tabs as grips, engage the slots in the new fusing belt smoothing roller with the shaft.



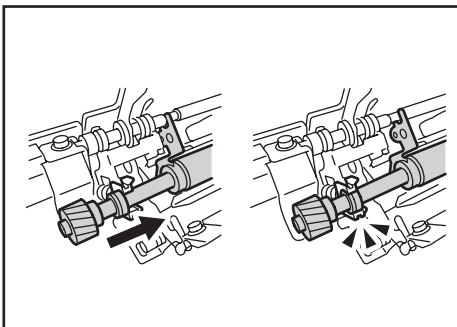
CWH066

8. Insert the fusing belt smoothing roller by pushing it down and up into the fusing unit in an arc, and then slide it to mount it completely.



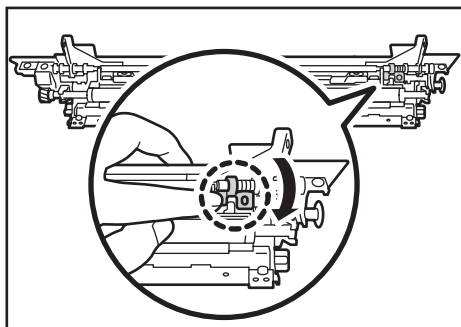
CWH067

Slide the roller all the way to the rear end.



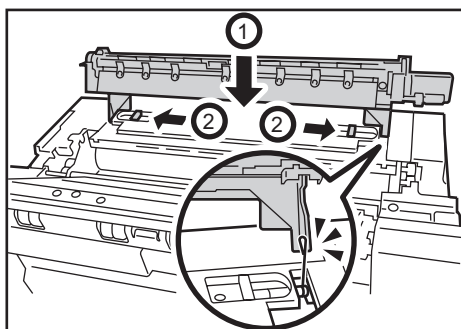
CWH068

9. Close the retainer, and then secure the fusing belt smoothing roller with the screw.



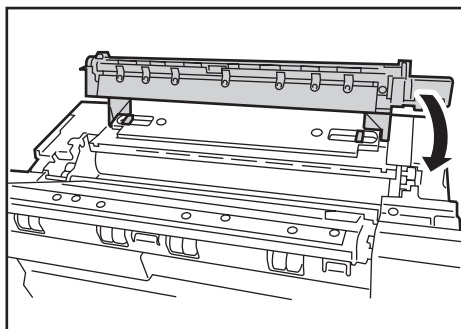
CWH069

10. Mount the fuser separation unit, and then secure it with the two catches.



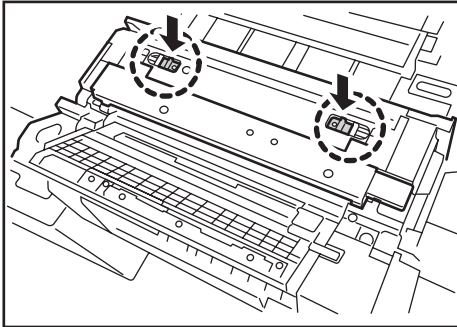
CWH061

11. Close the fuser separation unit.



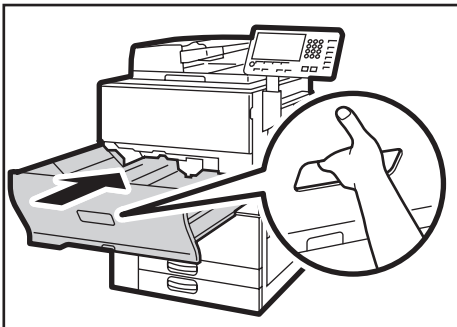
CWH062

12. Secure the fusing unit with the two screws, and then reattach the two stopper.



CWH063

13. Push the drawer back into the machine.



CWH013

14. Reset the counter for replaceable parts.

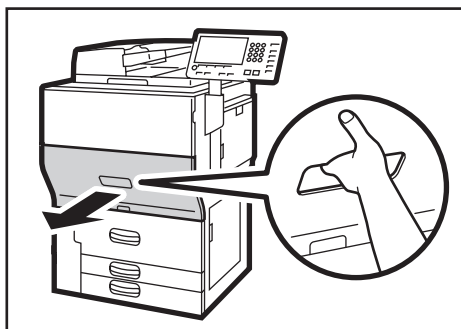
Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

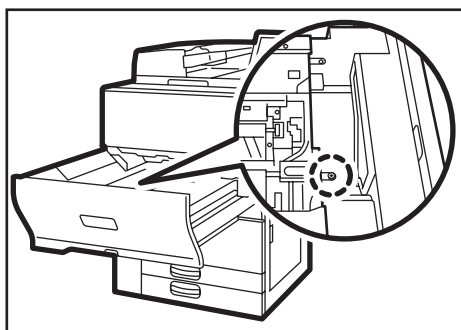
Replacing the Cleaning Unit for the Fusing Unit / Fusing Assembly

This section explains how to replace the cleaning unit for the fusing unit. When you replace the fusing unit, detach the fuser separation unit and cleaning unit for the fusing unit from the old fusing unit and attach them to the new one.

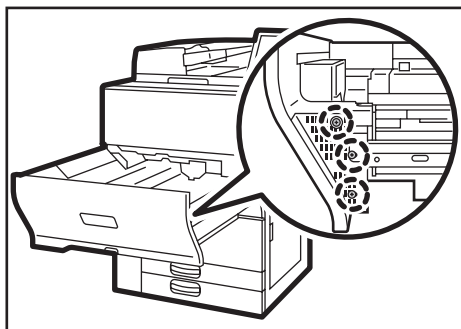
1. Pull out the drawer until it stops.



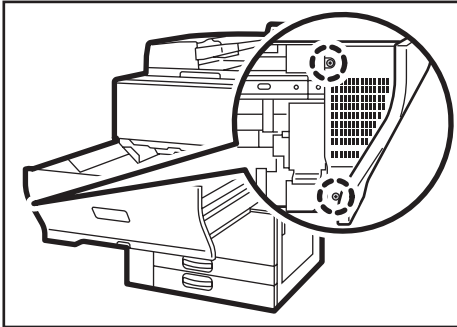
2. Remove the screw.



3. Remove the three screws.

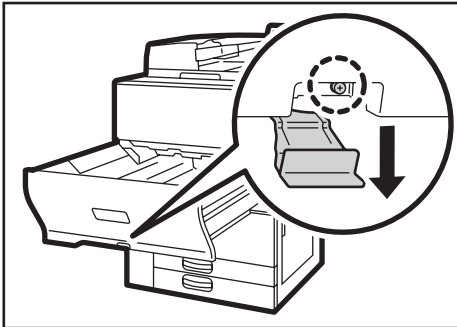


4. Remove the two screws.



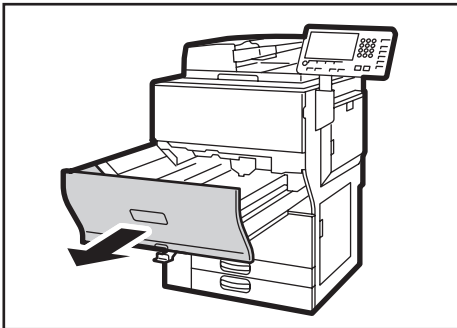
CWH024

5. Push the drawer catch down, and then remove the screw.



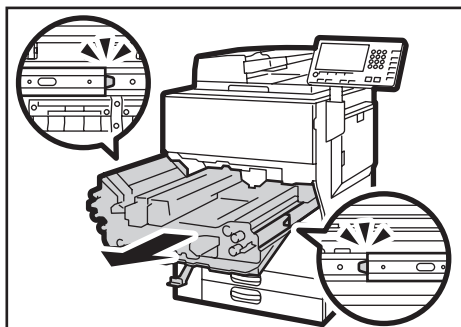
CWH025

6. Remove the drawer cover.



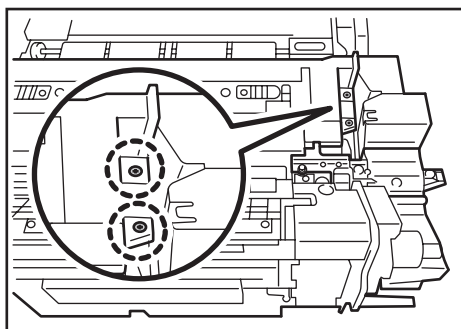
CWH026

7. Pressing the latches, pull the drawer out further.



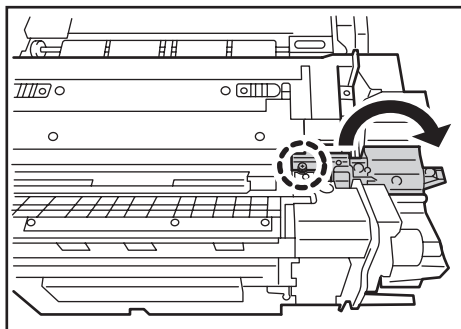
CWH074

8. Remove the two screws.



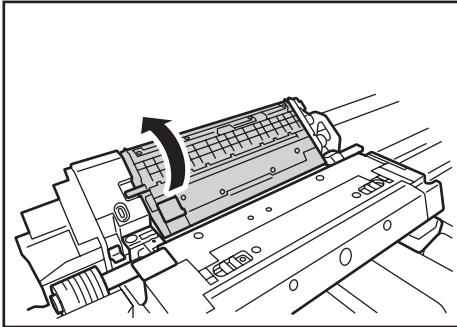
CWH075

9. Remove the screw, and then open the paper cooling roller cover.



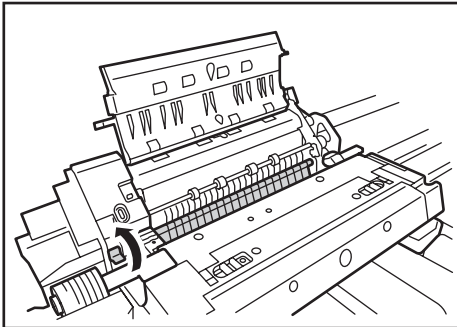
CWH076

10. Open the paper output unit.



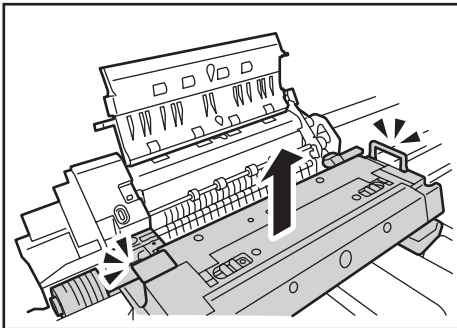
CWH077

11. Open the guide board.



CWH078

12. Pull the fusing unit out by the handles.

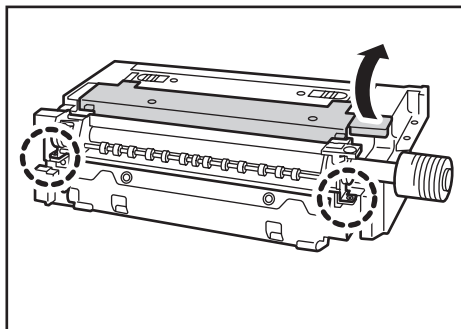


CWH079

13. Remove the two screws, and then open the fuser separation unit.

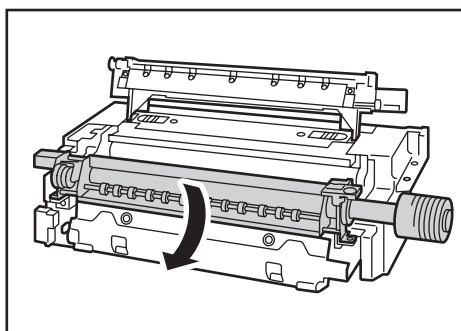
When you replace the fusing unit, detach the fuser separation unit from the old fusing unit and attach it to the new one.

For details about how to detach and reattach the fuser separation unit, see page 89 "Replacing the Fusing Belt Smoothing Roller".



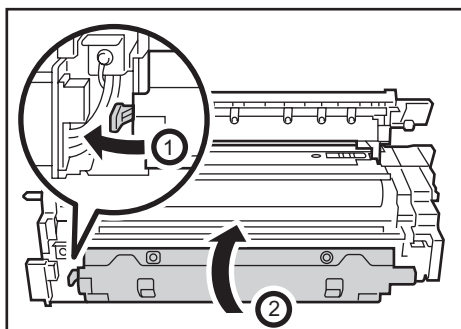
CWH086

14. Remove the heat pipe by pulling it down and up toward you in an arc.



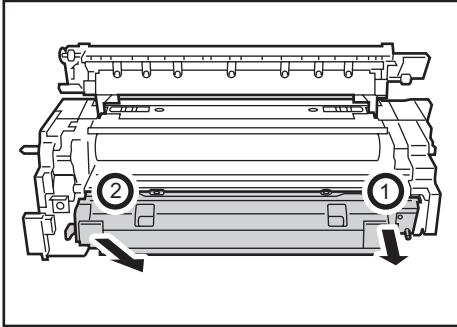
CWH087

15. Move the lever to the rear, and then rotate the cleaning unit for the fusing unit by 90 degrees.



CWH088

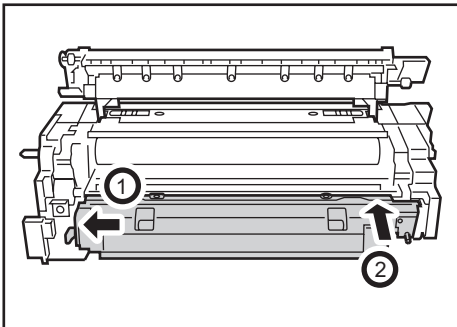
16. Detach the front part of the cleaning unit for the fusing unit, and then disengage the rear end from the pin.



CWH089

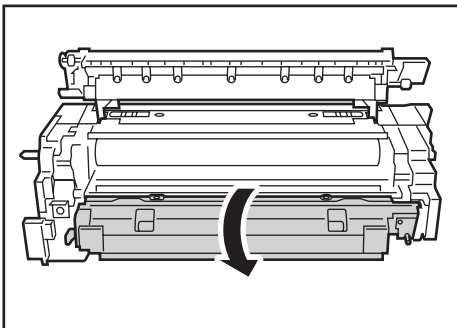
17. Align the new cleaning unit for the fusing unit with the pin at the rear end, and then align the front part.

When you replace the fusing unit, detach the cleaning unit for the fusing unit and attach it to the new one.



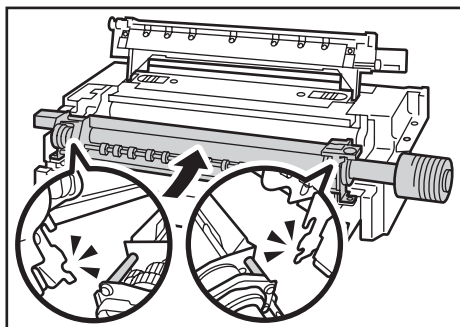
CWH090

18. Attach the cleaning unit for the fusing unit by rotating it by 90 degrees.



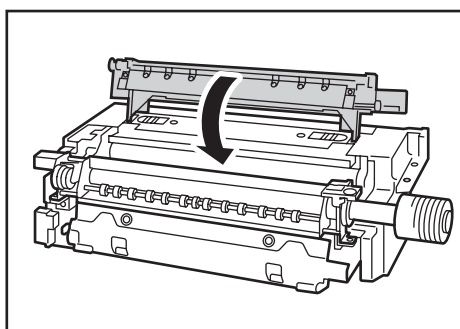
CWH173

19. Engage the heat pipe's pins with the notches, and then attach the new heat pipe.



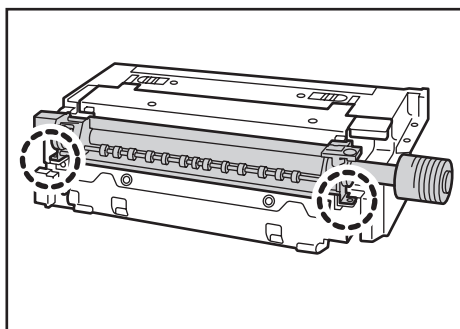
CWH091

20. Close the fuser separation unit.



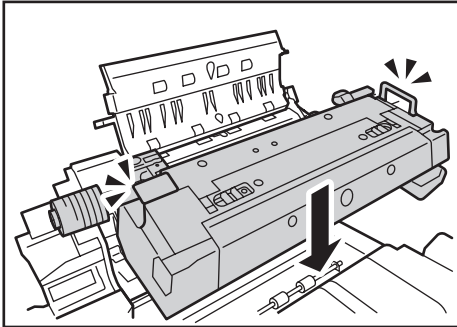
CWH092

21. Secure the heat pipe with the two screws.



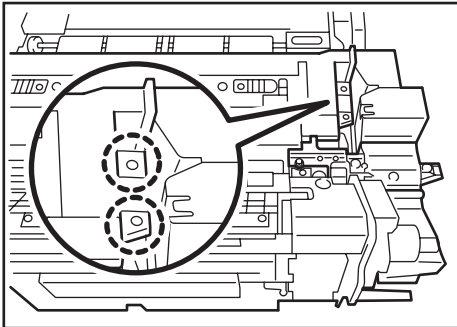
CWH093

- 22. Mount the fusing unit, and then tuck in the handles.**



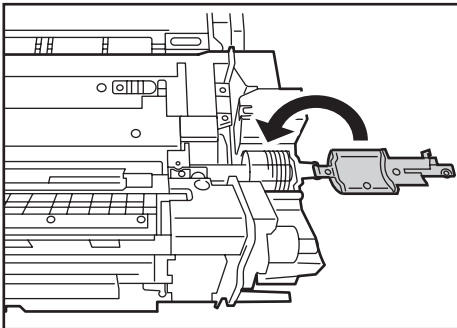
CWH085

- 23. Secure the fusing unit with the two screws.**



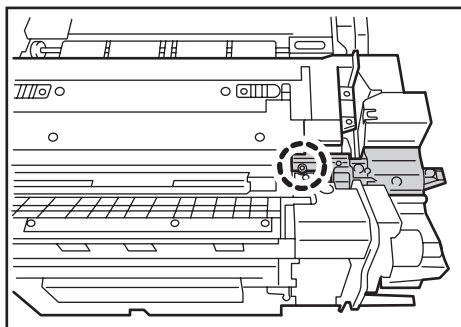
CWH084

- 24. Close the paper cooling roller cover.**



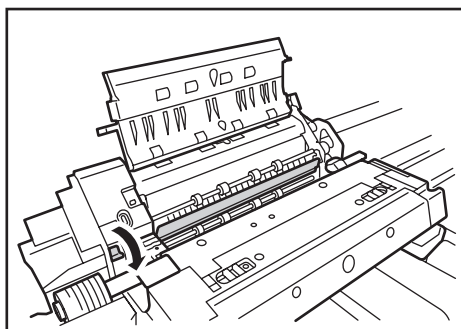
CWH082

- 25. Secure the paper cooling roller cover with the screw.**



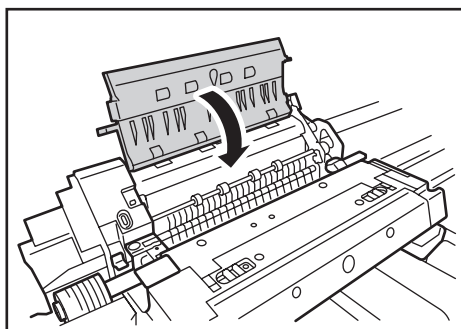
CWH083

- 26. Close the guide board.**



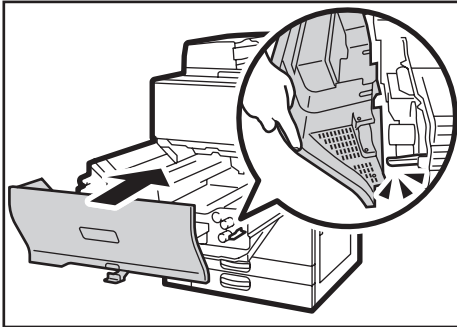
CWH080

- 27. Close the paper output unit.**



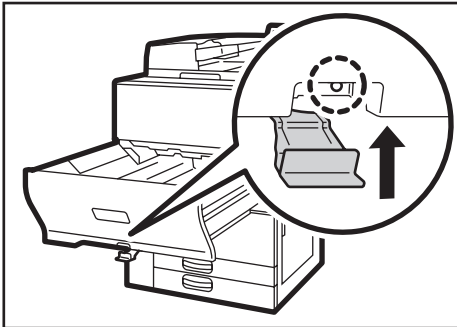
CWH081

28. Engage the drawer cover with the guide rails.



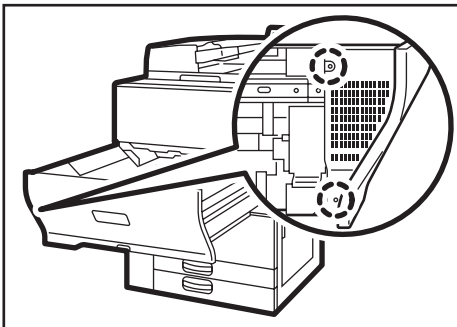
CWH027

29. Secure the drawer cover with the screw, and then push the drawer catch up.



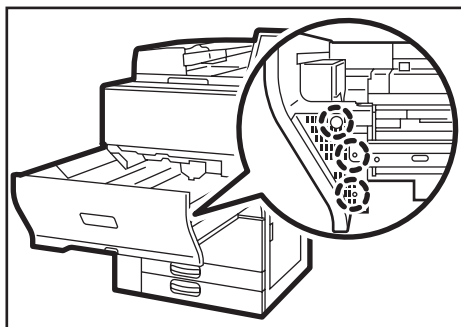
CWH028

30. Secure the drawer cover with the two screws.



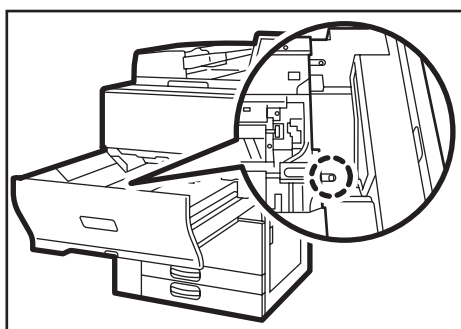
CWH029

31. Secure the drawer cover with the three screws.



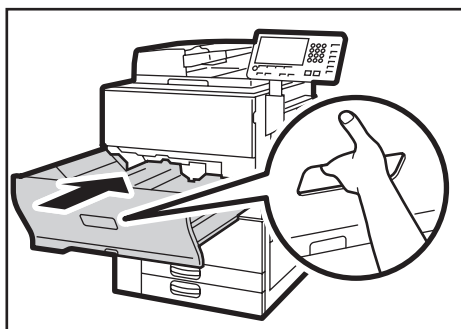
CWH030

32. Secure the drawer cover with the screw.



CWH031

33. Push the drawer back into the machine.



CWH013

34. Reset the counter for replaceable parts.

Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

7. Filter

Before You Begin

CAUTION

- Avoid getting toner on your clothes or skin when replacing toner filter. If your skin comes into contact with toner, wash the affected area thoroughly with soap and water.
- If toner gets on your clothing, wash with cold water. Hot water will set the toner into the fabric and may make removing the stain impossible.

What You Need

- Hex screwdriver
- Newspaper or other paper

Replacement Message

"Replacement Required:Filter (Main)"

Print the counter list.

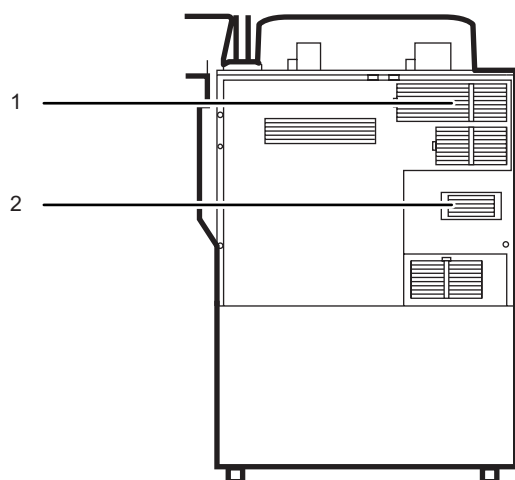
1. Press the [Counter] key and print out the counter list.

See page 18 "Control Panel".

2. Turn the machine off.

See page 19 "Turning Off/On the Power".

Replaceable Parts



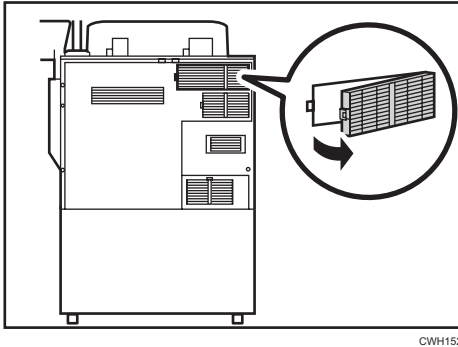
CWH189

- 1. Dust filter (large)
- 2. Dust filter (small)

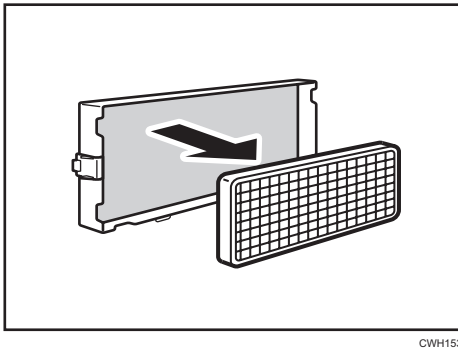
Replacing the Dust Filter

Replacing the Dust Filter (Large)

1. Remove the cover.

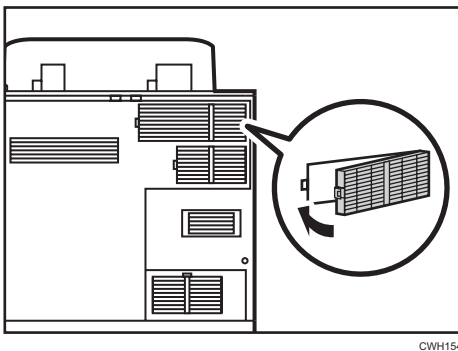


2. Remove the dust filter (large).



3. Install the new dust filter (large).

4. Reattach the cover.

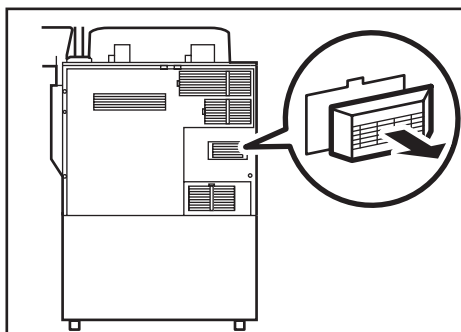


5. Reset the counter for replaceable parts.

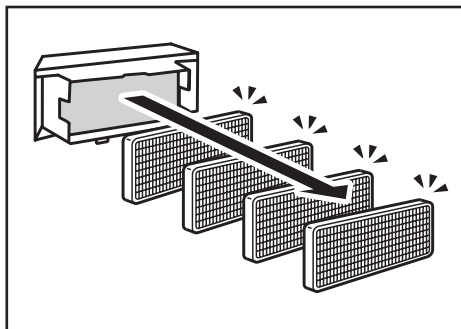
Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

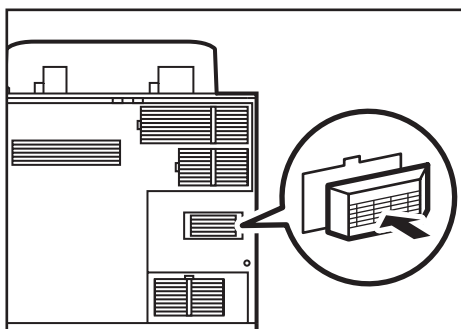
Replacing the Dust Filter (Small)

1. Remove the cover.

CWH155

2. Remove the dust filters (small).

CWH156

3. Install the new dust filters (small).**4. Reattach the cover.**

CWH157

5. Reset the counter for replaceable parts.

Do not turn the machine on until you have read how to do so.

See page 23 "Resetting the Replaceable Parts Counter".

MEMO

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