

Replacement Guide: TCRU
Model Name:
Pro C651EX/Pro C751EX/Pro C751

Read this manual carefully before using this machine and keep it handy for future reference.

How to Read This Manual

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.

Symbols

This manual uses the following symbols:

 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.

Important:

Indicates points to pay attention to when using the machine and explains 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.

[]

Indicates the names of keys that appear on the machine's display panel.

[] key

Indicates the names of keys on the machine's control panel.

Important

- 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.
- The manufacturer shall not be responsible for any damage or expense that might result from use of other than genuine parts from the manufacturer with your office products.

Notes

- Contents of this manual are subject to change without prior notice.
- This manual covers several different models, and therefore contains functions and settings that may not be available for your model. Images, illustrations, and functions may differ from those of your model.
- Some illustrations in this manual might be slightly different from the machine.
- Certain options might not be available in some countries. For details, please contact your local dealer.
- Depending on which country you are in, certain units may be optional. For details, please contact your local dealer.

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.

 ON

 STANDBY

Power Plug and Power Cord

1. Always make sure that the power plug is fully completely into the wall outlet. A partially inserted plug could lead to heat generation (due to a power surge caused by high resistance) that can result in fire and other problems.
2. Always check the power plug and make sure that it is free of dust and lint. Clean it if necessary. A dirty plug can generate heat that can result in fire.
3. Inspect the length of the power cord for cuts or other damage. A frayed or otherwise damaged power cord can cause a short circuit which could lead to a fire or injury from electrical shock. If the power cord is damaged in any way, call for service.
4. Check the length of the power cord between the machine and power supply. Make sure the power cord is not coiled or wrapped around any object such as a table leg. Coiling the power cord can cause excessive heat to build up and this could result in fire.
5. Make sure that the area around the wall outlet is free of obstacles so the power cord can be removed quickly in case of an emergency.
6. Make sure that the power cord is grounded (earthed) at the wall outlet using the ground wire on the plug.
7. Insert the power cord into the wall outlet directly. Never use an extension cord.
8. When disconnecting the power plug from the wall outlet, always pull on the plug, not the cable.

Safety Information

When using this machine, the following safety precautions should always be followed.

Safety Precautions to be Followed

These are safety precautions that should always be followed when using this machine.

Environments where the machine can be used

These are safety precautions about environments where the machine can be used.

WARNING

- Protect the machine from dampness or wet weather, such as rain and snow.
- For environmental reasons, do not dispose of the machine or expended supply waste at household waste collection points. Disposal can take place at an authorized dealer.

CAUTION

- Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur.
- Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.

Handling power cords and power plugs

These are safety precautions about handling power cords and power plugs.

WARNING

- Unplug the power cord from the wall outlet before moving the machine. While moving the machine, take care that the power cord is not damaged under the machine.
- When disconnecting the power plug from the wall outlet, always pull the plug (not the cable).

Handling the main machine

These are safety precautions about handling the main machine.

WARNING

- If you use the machine in a confined space, make sure there is a continuous air turnover.
- To prevent electrical shock, turn off the color controller on the machine control panel, switch off the operation power switch then the main power switch, and then disconnect the machine from the power supply before replacing parts or cleaning the machine's interior.

Handling the machine's interior

These are safety precautions about handling the machine's interior.

WARNING

- Do not allow paper clips, staples, or other small metallic objects to fall inside the machine.
- The inside of this machine gets very hot. Do not touch the parts with a label indicating a "hot surface". Otherwise, an injury might occur.
- The fusing section of this machine gets very hot. Caution should be taken when removing misfed paper.

Handling the machine's supplies

These are safety precautions about handling the machine's supplies.

WARNING

- The fusing unit becomes extremely hot during operation, so to prevent minor burns, turn the machine off and allow it to cool for at least 30 minutes before you remove the fusing unit.
- The fusing unit is small and weighs approximately 17 kg (37 lb.) so it can be lifted and carried easily by one person.

CAUTION

- Keep toner (used or unused) and toner containers out of reach of children.
- Do not use aluminum foil, carbon paper, or similar conductive paper to avoid fire or machine failure.
- If toner or used toner is inhaled, gargle with plenty of water and move into a fresh air environment. Consult a doctor if necessary.
- If toner or used toner gets into eyes, wash eyes immediately using lots of water. Consult a doctor if necessary.
- If toner or used toner is swallowed, dilute it by drinking lots of water. Consult a doctor if necessary.
- Avoid getting toner on your clothes or skin when removing a paper jam or replacing toner. If your skin comes into contact with toner, wash the affected area thoroughly with soap and water.
- If toner gets on your clothing, wash it using cold water. Hot water will set the toner into the fabric and might 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.

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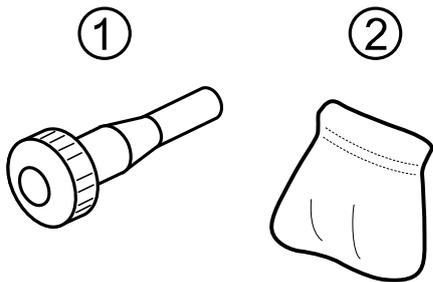
1. Before You Begin

This manual is only for operators who have received proper training. General users are not to perform the procedures shown in this manual.

- 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.

1.1 What You Need

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



- (1) Accessory hex screwdriver (provided)
- (2) Drum setting powder pad applicator (provided)

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- Accessory hex screwdriver (1) (provided). Colored purple. For removing the black screws (Trained Customer Replaceable Units (TCRU) screws) from the machine. For details about the black screws, see p.11 "Parts and Screw Color Codes".
- Drum setting powder pad applicator (2) (provided). For applying a thin coat of powder on the drum.

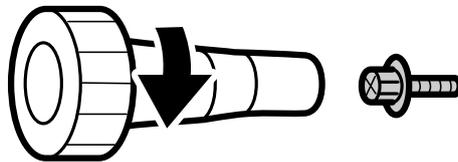
You also need the following items:

- Newspaper or other paper: For covering your work surface and prevent toner spillage from the components removed from the machine.
- Dry clean cloth: For cleaning rollers, plates, and other parts.
- Blower brush: For cleaning sensors.

Important: The accessory hex screwdriver and drum setting powder pad are included in the kit supplied with this machine. Keep the kit in a safe place where you can find it later. If you lose the kit, contact your service representative.

1.2 Parts and Screw Color Codes

- Purple handles and levers are for use when pulling or lifting parts in order to move or remove them. Purple labels on parts indicate exactly where to hold such parts when pulling or lifting them.
- The components designated for replacement are installed with TCRU screws. These are heavy black screws with large hexagonal heads to distinguish them from other screws which are silver or blue with smaller heads. Never remove screws that are not black.
- The hex screwdriver tightly grips the head of TCRU screws so they do not fall into the machine during removal.

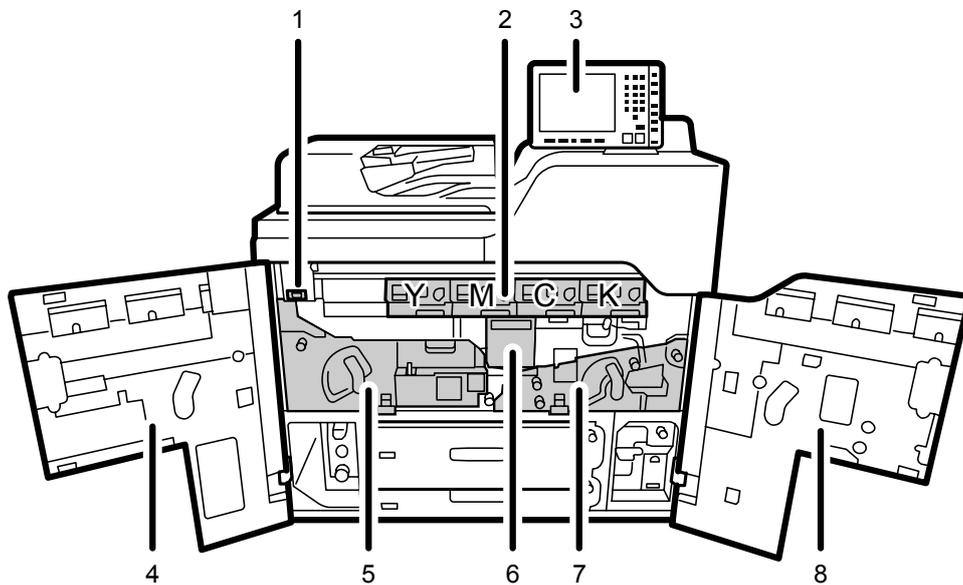


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Important:

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

1.3 Names of Components

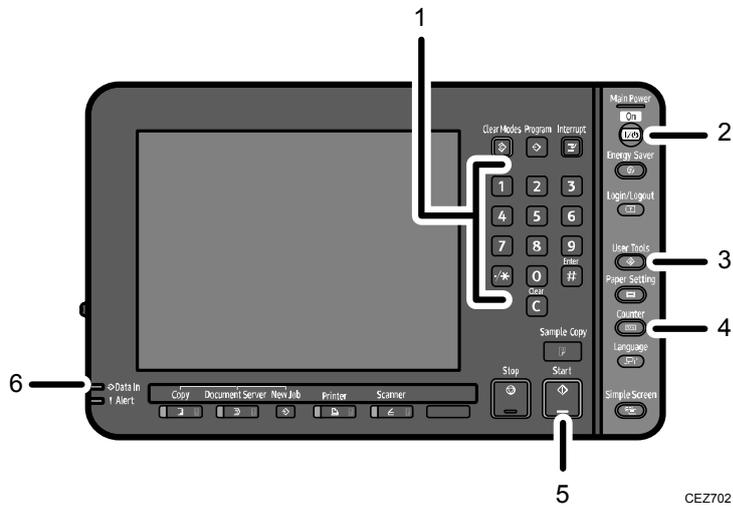


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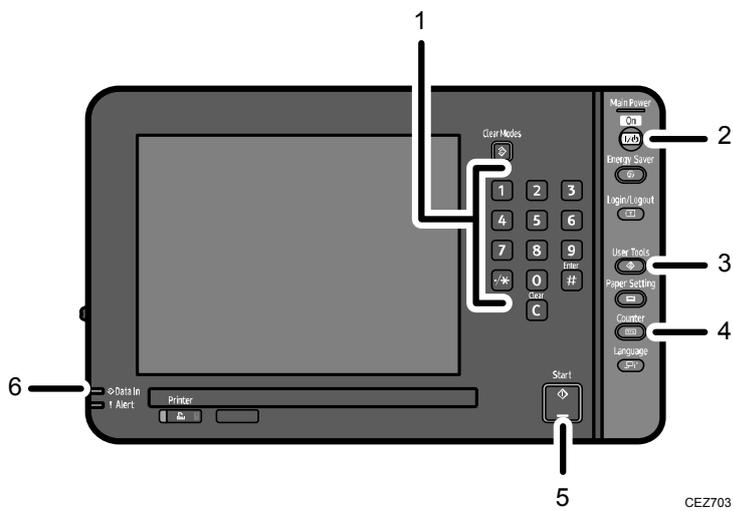
1. Main power switch
2. Photoconductor and Development Units (PCDUs)
3. Control panel
4. Front left cover
5. Left drawer (Fusing unit)
6. Inner cover (Cleaning unit for intermediate transfer belt)
7. Right drawer (Transfer unit)
8. Front right cover

1.4 Control Panel

Pro C651EX/Pro C751EX



Pro C751



1. Number keys
2. Operation switch
3. User Tools key
4. Counter key
5. Start key
6. Data in indicator

1.5 Power Off Sequence

WARNING

- To avoid electrical shock and possible injury, always turn off the system and unplug the power cord from its power source before doing any procedure that is described in this manual.

1. Check that the data in indicator on the main machine's control panel is not flashing.
2. Turn off the color controller on the control panel.
3. Turn off the operation power switch on the control panel.
4. Open the front left cover and turn off the main power switch.
5. Unplug the main machine from its power source.

Important:

Open the left and right front covers and allow the machine to cool for about 30 minutes before removing the fusing unit.

Note: The operation switch is on the control panel. (See p.13 "Control Panel".)
The main power switch is in the upper left corner behind the front left cover. (See p.12 "Names of Components".)

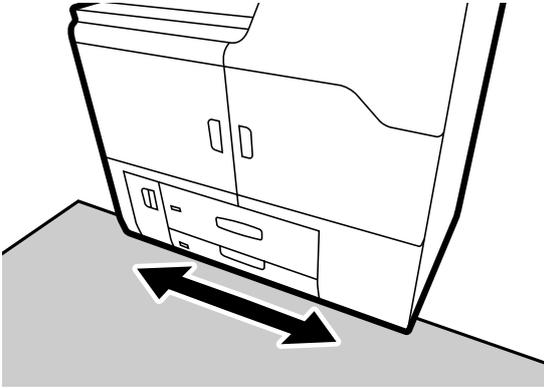
1.6 Specifying System Auto-Reset Timer

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.

1.7 Preparation

- Spread some paper or a drop cloth in front of the machine before removing any parts.
- The cloth or paper will catch small amounts of toner or shreds of dry lubricant that may fall out of the PCUs when they are removed.

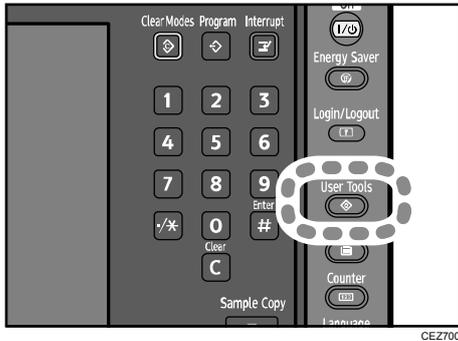


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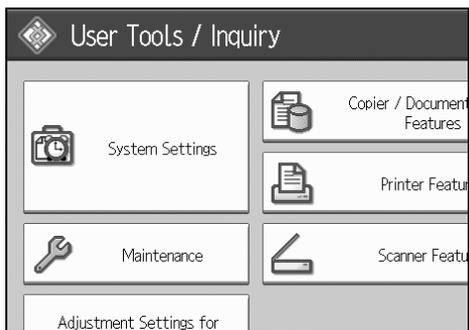
1.8 Displaying the [Adjustment Settings for Skilled Operators] Button

To use the Adjustment Settings for Skilled Operators menu, you must first configure your machine's Administrator Authentication Management setting.

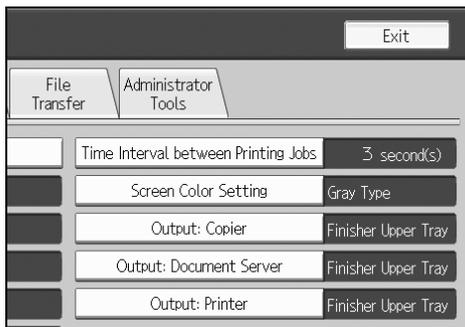
1. Press the [User Tools] key on the control panel.



2. Press [System Settings] on the display.

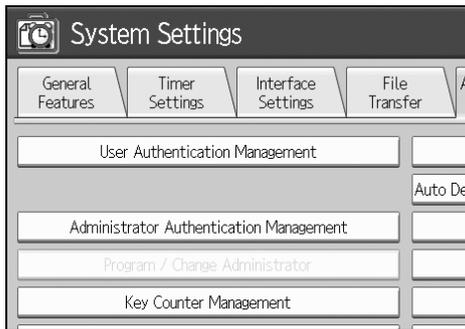


3. Press [Administrator Tools].

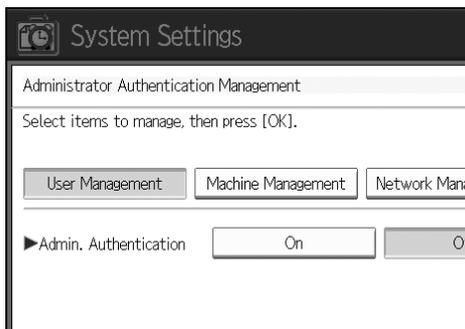


4. Press [▼Next].

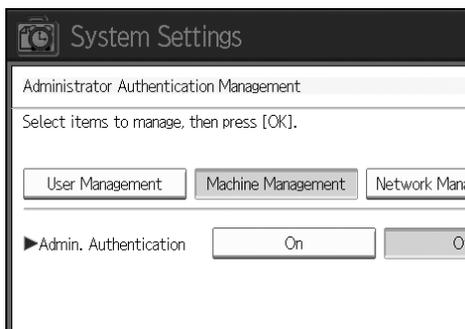
5. Press [Administrator Authentication Management].



6. Press [Machine Management].



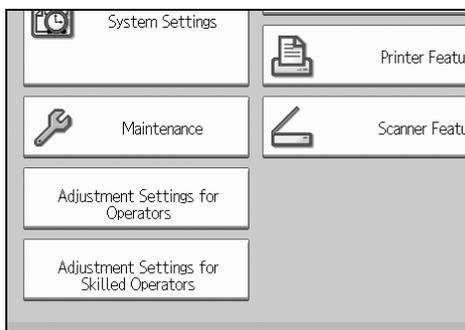
7. Select [On] for "Admin. Authentication".



8. Press [OK].

9. Press [Exit].

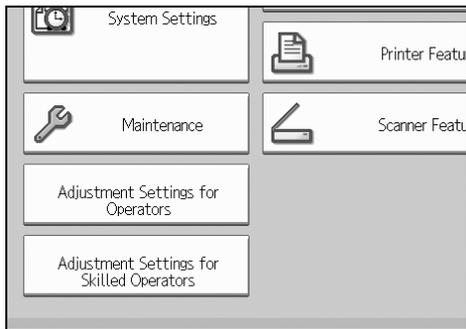
The [Adjustment Settings for Skilled Operators] button appears.



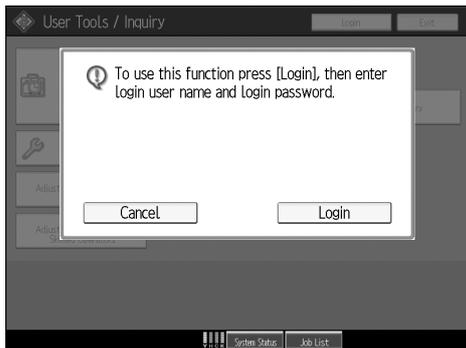
1.9 Accessing the Adjustment Settings for Skilled Operators

1. Press [Adjustment Settings for Skilled Operators].

If the [Adjustment Settings for Skilled Operators] button does not appear, follow the procedure under "Displaying the [Adjustment Settings for Skilled Operators] Button" on p.16.

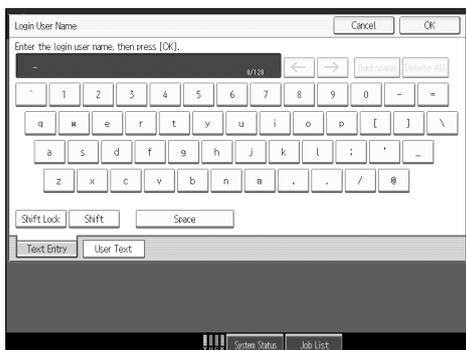


2. Press [Login].

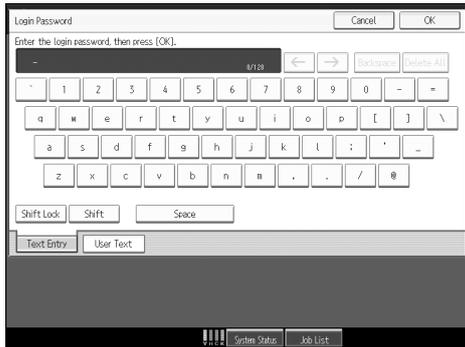


3. Enter your login user name, and then press [OK].

If you are logging on as the administrator for the first time, enter "admin".



4. Enter your login password, and then press [OK].



The screen appears for Adjustment Settings for Skilled Operators.



1.10 Resetting the Replaceable Parts Counter

Reset the counter for replaceable parts.

After you have replaced a unit, reset the counter for the unit.

1. Access the Adjustment Settings for Skilled Operators menu.
2. Press [▼Next].
3. Press [0305: Reset Replaceable Parts Counter].



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



5. Press [OK].



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

6. Press [Back].
7. Press [0306: Replaceable Parts Counter].
8. Make sure the counter has been reset.

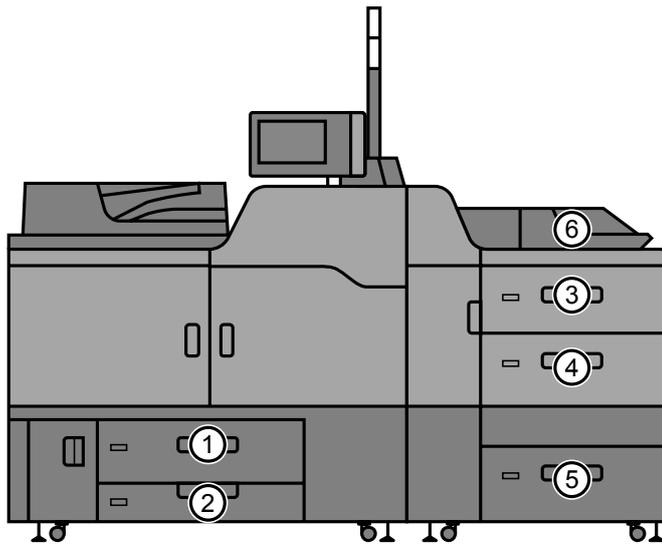
2. Replacing the Paper Feed Rollers

2.1 Before You Begin

Read this section before replacing any paper feed rollers.

2.1.1 Tray Names

The main machine's paper feed trays and wide Large Capacity Trays (wide LCTs) are occasionally referred to by number.

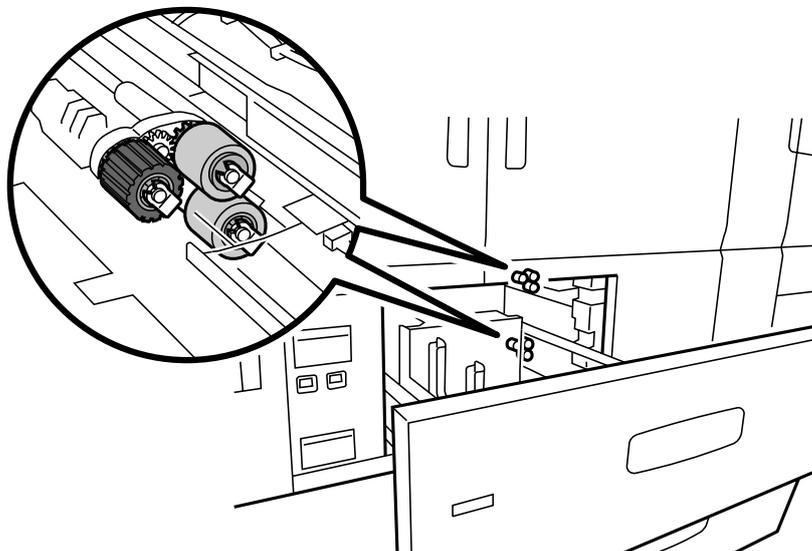


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- Trays 1 and 2 are the top and bottom trays of the main machine.
- Trays 3, 4, and 5 are the top, middle, and bottom trays of the optional wide LCT.
- Tray 6 is the optional multi bypass tray on top of the wide LCT.

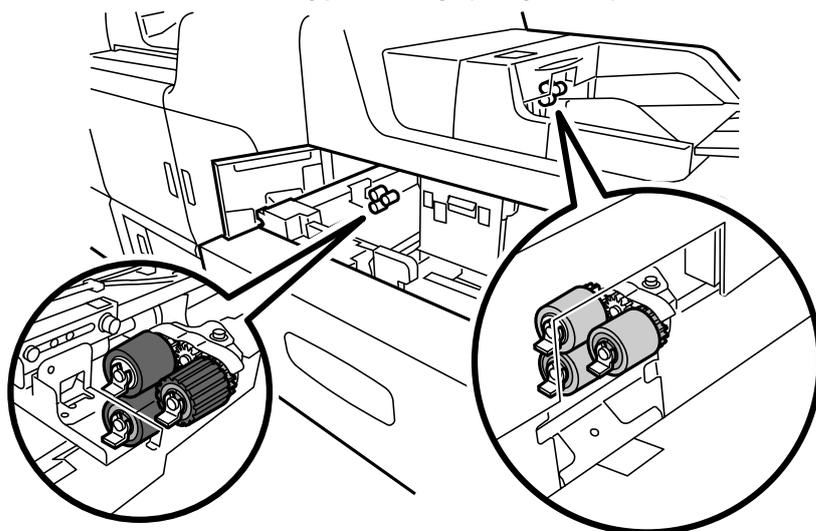
2.1.2 Position of the paper feed rollers

- Main machine (Trays 1 and 2)



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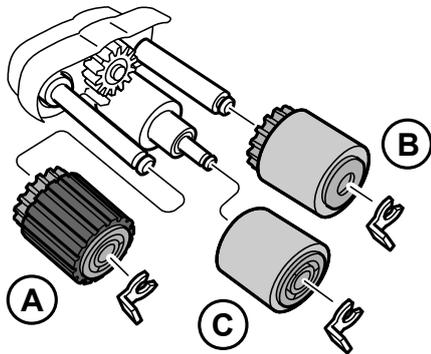
- Wide LCT and multi bypass tray (Trays 3-6)



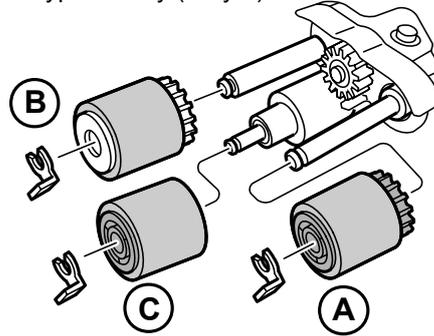
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2.1.3 Roller Names

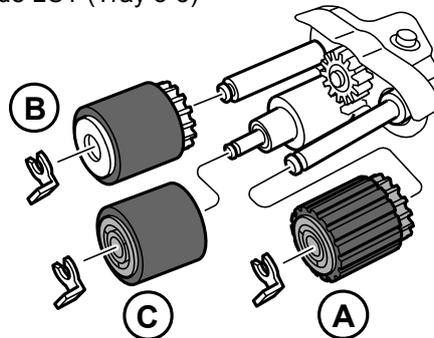
Main Machine (Tray 1, 2)



Multi Bypass Tray (Tray 6)



Wide LCT (Tray 3-5)



There are three rollers:

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

Important:

- The three rollers must be replaced together as a set.
- The separation rollers (C) of the main machine (Trays 1 and 2) and multi bypass tray (Tray 6) are interchangeable.
- The pick-up rollers (A) of the main machine (Trays 1 and 2) and wide LCT (Trays 3 to 5) are interchangeable.
- Other rollers are not interchangeable, because they are made of different materials or are designed to rotate in the opposite direction.
- Handle new rollers carefully and avoid touching their surfaces with bare hands.
- After replacing the rollers, be sure to clear the counters for the new rollers.
- The rollers are fastened with snap rings. If you lose a snap ring, contact your service representative.

⚠WARNING

- To prevent electrical shock, turn off the color controller on the machine control panel, turn off the operation power switch and then the main power switch, and then disconnect the machine from the power supply before replacing any parts or cleaning the machine's interior.
- Allow the machine to cool for at least 30 minutes before replacing a part.

What You Need

- Accessory hex screwdriver provided with the main machine.

Replacement Message

Replacement Required: Paper Feed Roller: (xxx)
Follow replacement instructions to replace the parts.

In the message, "xxx" denotes the number of the tray where the rollers must be replaced.

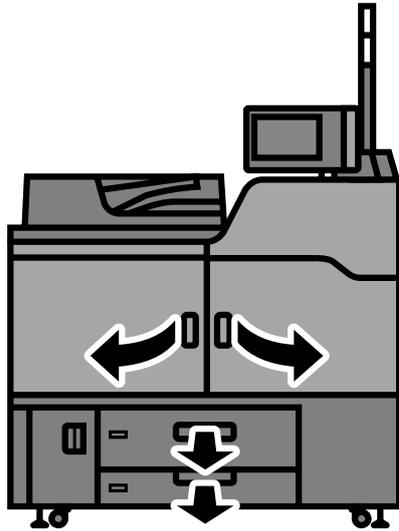
Preparation: Print the counter list.

1. Press the [Counter] key on the control panel (see p.13 "Control Panel".) and print out the counter list.
2. Turn the machine off. (See p.14 "Power Off Sequence".)

2.2 Replacing the Rollers in the Main Machine

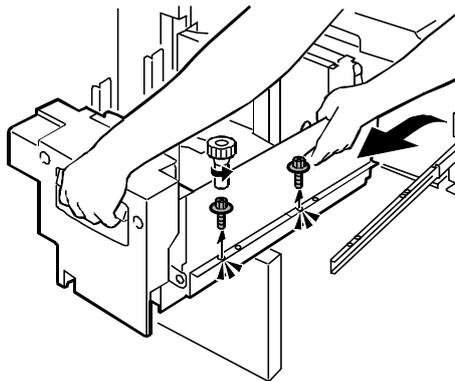
2.2.1 Removing the Rollers: Tray 1, Tray 2

Follow this procedure to replace the paper feed rollers in Tray 1 and Tray 2 (top and bottom trays of the main machine).



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1. Open the left and right front covers.
2. Pull out the top tray (Tray 1) and bottom tray (Tray 2) until they stop. If there is any paper in the trays, remove it.
3. Remove the two black screws.

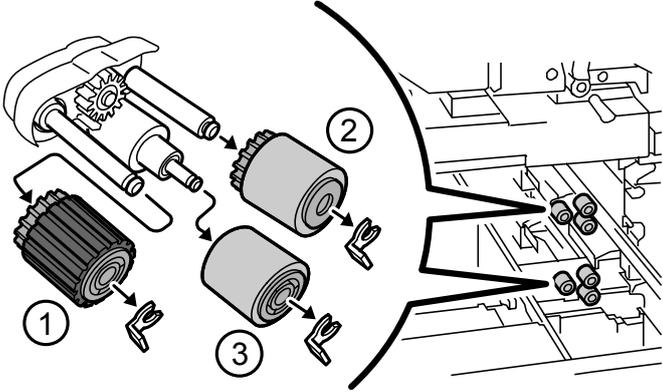


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4. Lift the inner tray out of the drawer and set it aside.

If the inner tray cannot be detached because its latch, which is located in the recess, will not disengage, close Tray 1, and then pull it out completely. This will release the latch and allow you to detach the inner tray.

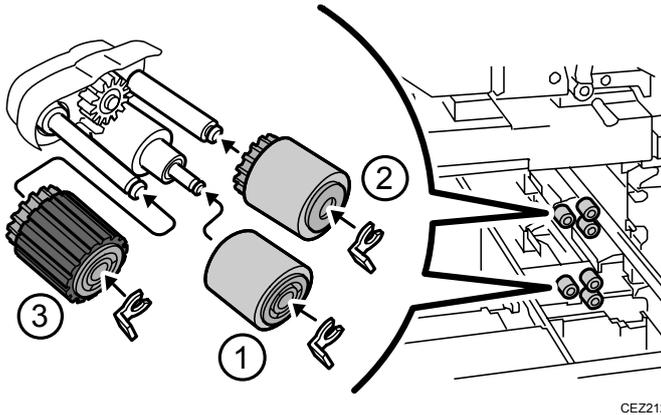
5. Remove the paper feed roller in the following order:
- (1) Pick-up roller snap ring and roller
 - (2) Feed roller snap ring and roller
 - (3) Separation snap ring and roller



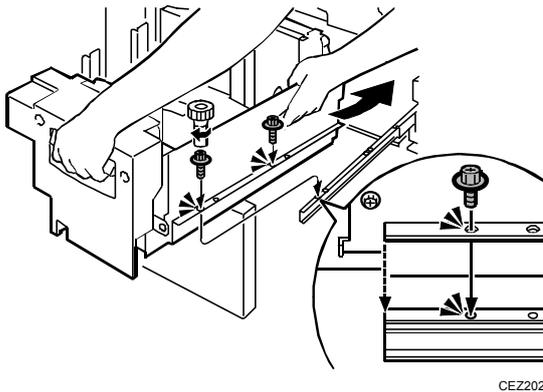
CEZ211

2.2.2 Installing the Rollers: Tray 1, Tray 2

1. 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



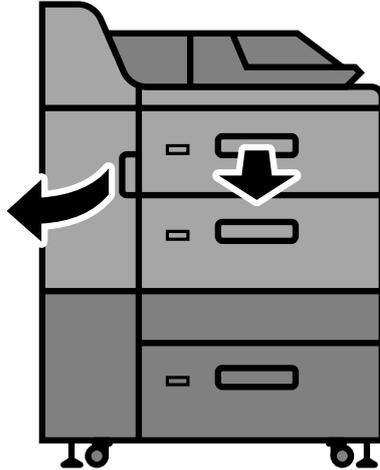
2. Mount the tray on the rail and align the screw holes.



3. Reattach the two black screws.
4. Slide the tray into the machine slowly and make sure that the latch locks at the back.
5. Push the tray (Tray 1) and bottom tray (Tray 2) back into the machine.
6. Reconnect the power cord to the power source.
7. Turn the machine's main power switch to ON, close the left and right front covers, and then wait for the machine to warm up.
8. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Accessing the Adjustment Settings for Skilled Operators".)
9. Reset the replaceable parts counter for the replaced rollers. (See p.20 "Resetting the Replaceable Parts Counter".)

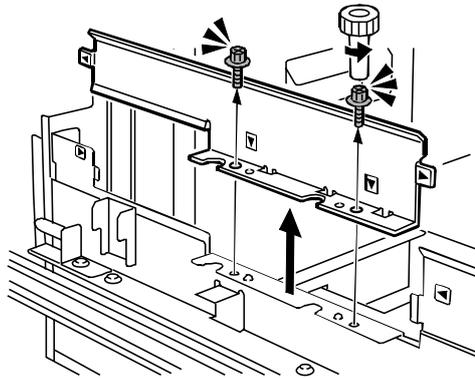
2.3 Replacing the Rollers in the Wide LCT Top Tray (Tray 3)

2.3.1 Removing the Rollers: Top Tray (Tray 3)



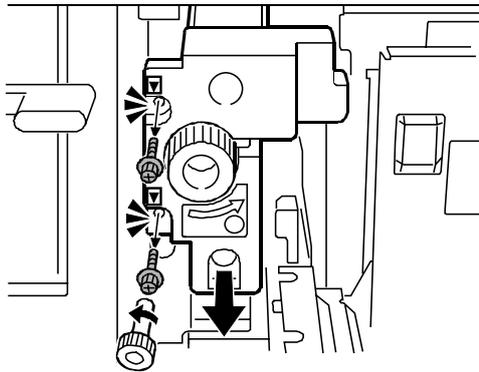
CEZ104

1. Open the wide LCT front cover.
2. Pull open the top tray (Tray 3) until it stops. If there is any paper in the tray, remove it.
3. Remove the two black screws on the side plate, and then remove the plate.



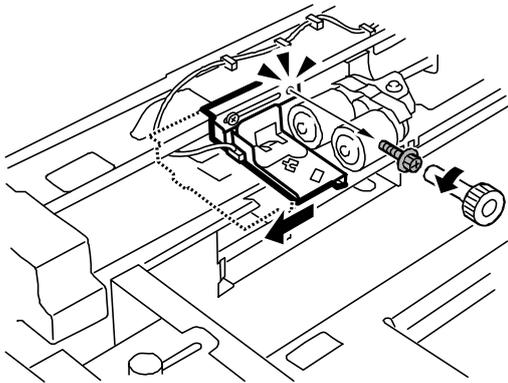
CEZ203

4. Remove the two black screws on the paper feed unit U2, and then pull out the paper feed unit U2 until it stops.



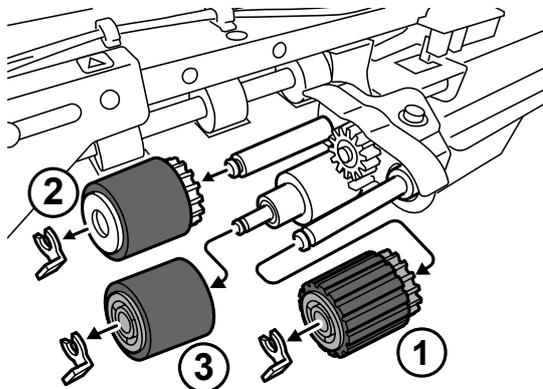
CEZ204

5. Push the tray partially into the wide LCT.
6. Remove the black screw on the bracket.



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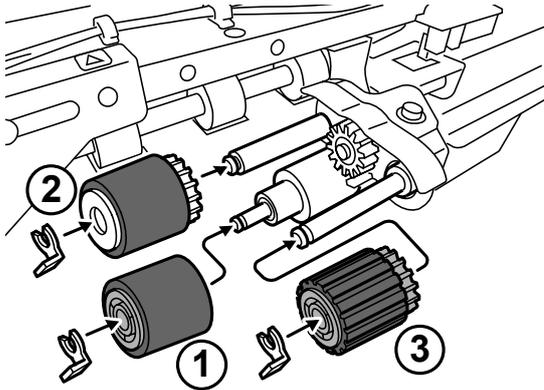
7. Slide the bracket to the left so you can reach the rollers.
8. Remove the paper feed roller in the following order:
 - (1) Pick-up roller snap ring and roller
 - (2) Feed roller snap ring and roller
 - (3) Separation snap ring and roller



CEZ213

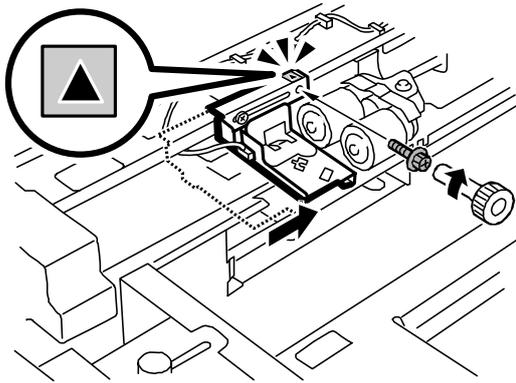
2.3.2 Installing the Rollers: Top Tray (Tray 3)

1. 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



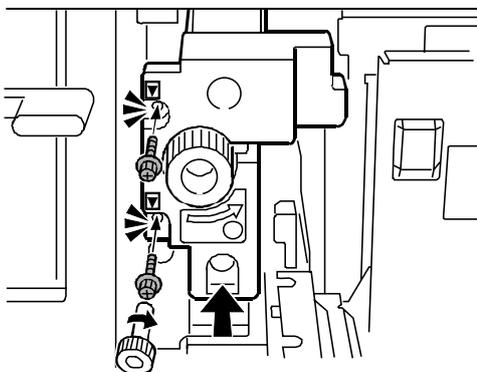
CEZ184

2. Slide the bracket back to its original position, carefully align the screw hole with the triangular marking, and then reattach the black screw.



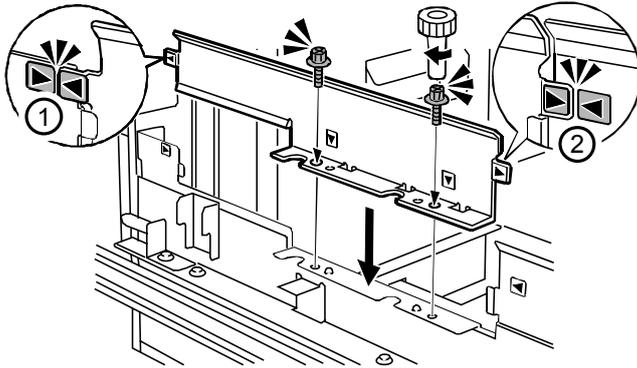
cez181

3. Push the paper feed unit U2 into the machine.
4. Fasten the paper feed unit U2 with the two black screws.



CEZ207

5. Align the markers at (1) and (2).

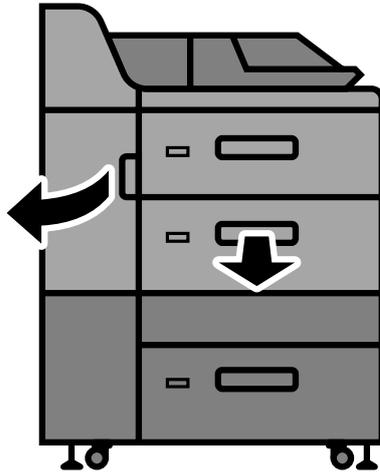


CEZ210

6. Use two black screws to reattach the side plate.
7. Push the top tray (Tray 3) back inside the machine.
8. Close the wide LCT front cover.
9. Turn on the main machine and wait for the machine to warm up.
10. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Accessing the Adjustment Settings for Skilled Operators".)
11. Reset the replaceable parts counter for the replaced rollers. (See p.20 "Resetting the Replaceable Parts Counter".)

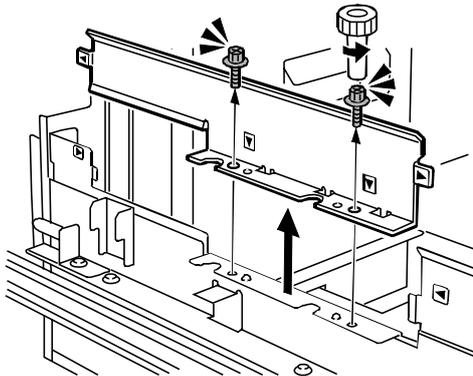
2.4 Replacing the Rollers in the Wide LCT Middle Tray (Tray 4)

2.4.1 Removing the Rollers: Middle Tray (Tray 4)



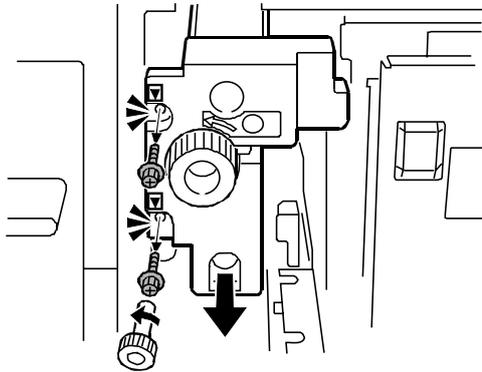
CEZ105

1. Open the wide LCT front cover.
2. Pull open the middle tray (Tray 4) until it stops. If there is any paper in the tray, remove it.
3. Remove the two black screws on the side plate, and then remove the plate.



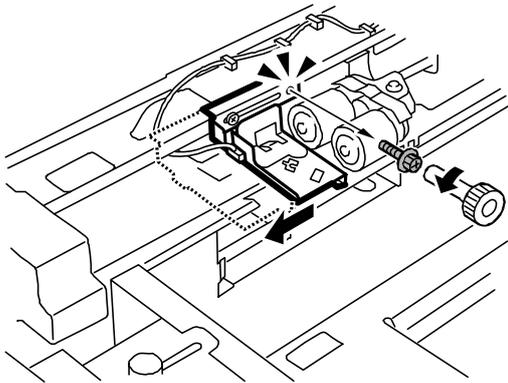
CEZ203

4. Remove the two black screws on the paper feed unit U4, and then pull out the paper feed unit U4 until it stops.



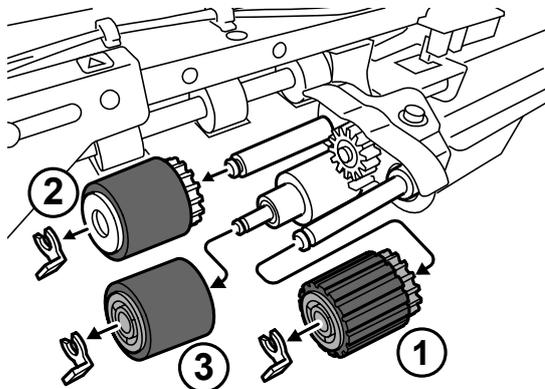
CEZ205

5. Push the tray partially into the wide LCT.
6. Remove the black screw on the bracket.



cez180

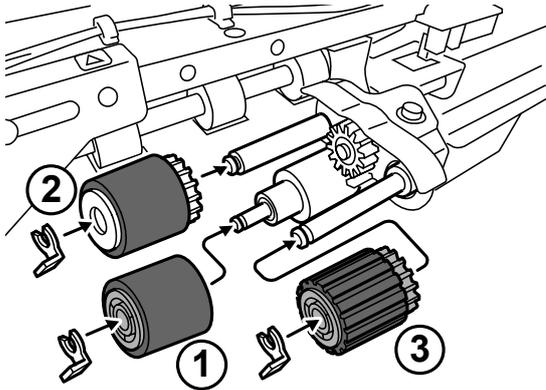
7. Slide the bracket to the left so you can reach the rollers.
8. Remove the paper feed roller in the following order:
 - (1) Pick-up roller snap ring and roller
 - (2) Feed roller snap ring and roller
 - (3) Separation snap ring and roller



CEZ213

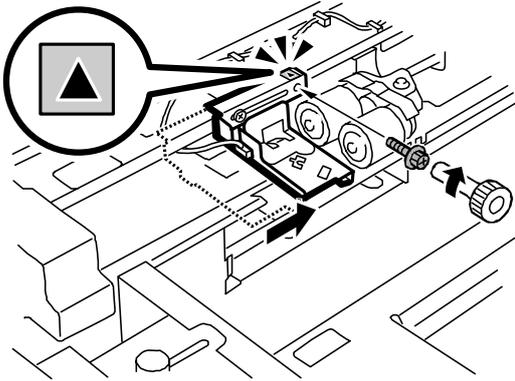
2.4.2 Installing the Rollers: Middle Tray (Tray 4)

1. 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



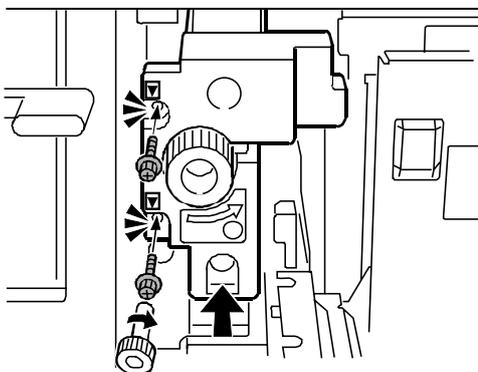
CEZ184

2. Slide the bracket back to its original position, carefully align the screw hole with the triangular marking, and then reattach the black screw.



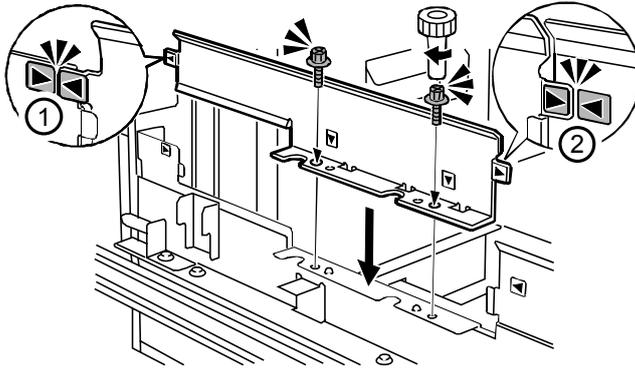
cez181

3. Push the paper feed unit U4 into the machine.
4. Fasten the paper feed unit U4 with the two black screws.



CEZ207

5. Align the markers at (1) and (2).

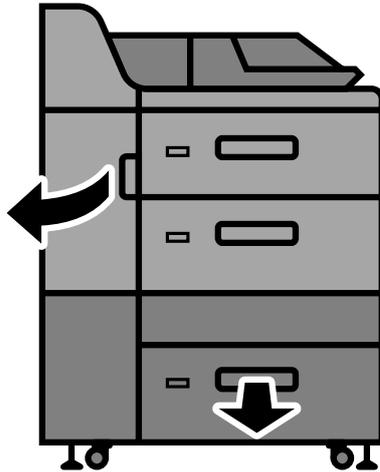


CEZ210

6. Use two black screws to reattach the side plate.
7. Push the middle tray (Tray 4) back inside the machine.
8. Close the wide LCT front cover.
9. Turn on the main machine and wait for the machine to warm up.
10. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Accessing the Adjustment Settings for Skilled Operators".)
11. Reset the replaceable parts counter for the replaced rollers. (See p.20 "Resetting the Replaceable Parts Counter".)

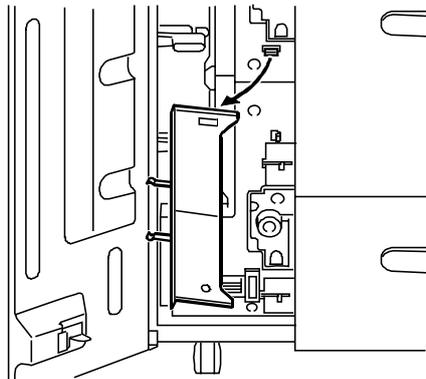
2.5 Replacing the Rollers in the Wide LCT Bottom Tray (Tray 5)

2.5.1 Removing the Rollers: Bottom Tray (Tray 5)



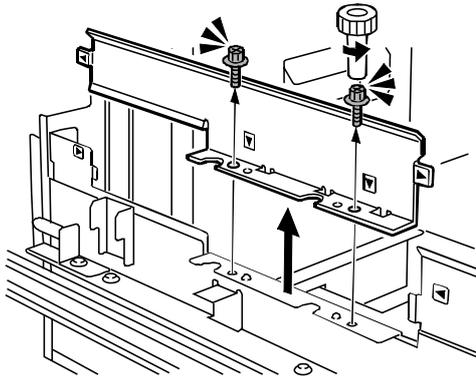
CEZ106

1. Open the wide LCT front cover.
2. Pull open the bottom tray (Tray 5) until it stops. If there is any paper in the tray, remove it.
3. Remove the tab fence.



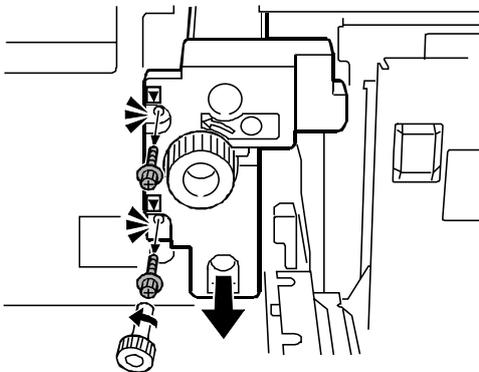
CEZ215

4. Remove the two black screws on the side plate then remove the plate.



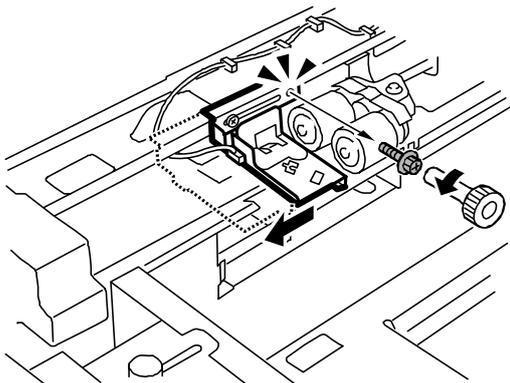
CEZ203

5. Remove the two black screws on the paper feed unit U6, and then pull out the paper feed unit U6.



CEZ206

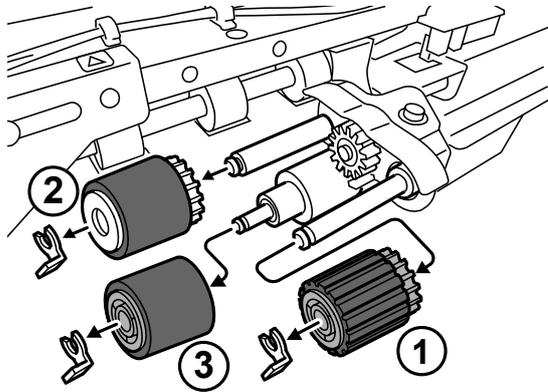
6. Push the tray partially into the wide LCT.
7. Remove the black screw on the bracket.



cez180

8. Slide the bracket to the left so you can reach the rollers.

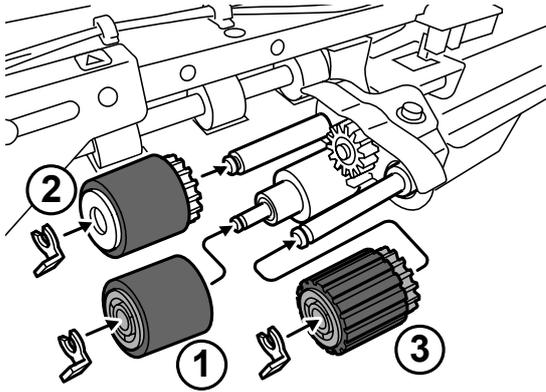
9. Remove the paper feed roller in the following order:
- (1) Pick-up roller snap ring and roller
 - (2) Feed roller snap ring and roller
 - (3) Separation snap ring and roller



CEZ213

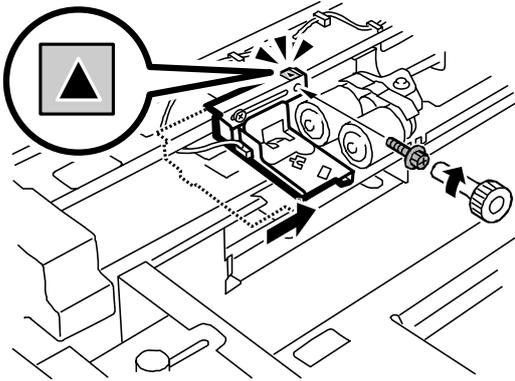
2.5.2 Installing the Rollers: Bottom Tray (Tray 5)

1. 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



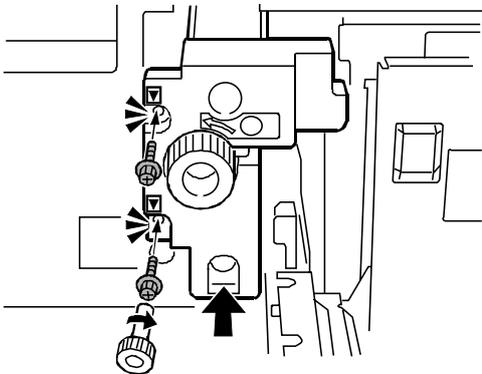
CEZ184

2. Slide the bracket back to its original position, carefully align the screw hole with the triangular marking, and then reattach the black screw.



cez181

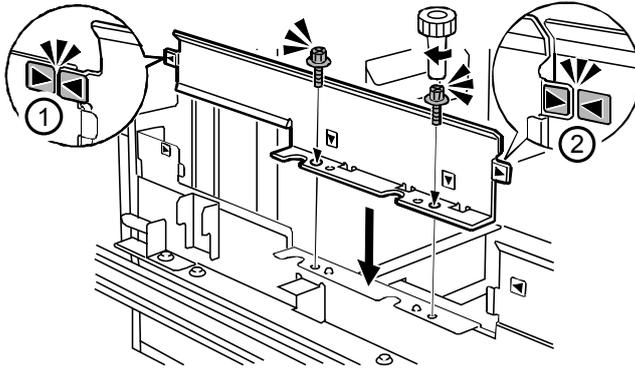
3. Push the paper feed unit U6 into the machine.



CEZ209

4. Fasten the paper feed unit U6 with the two black screws.

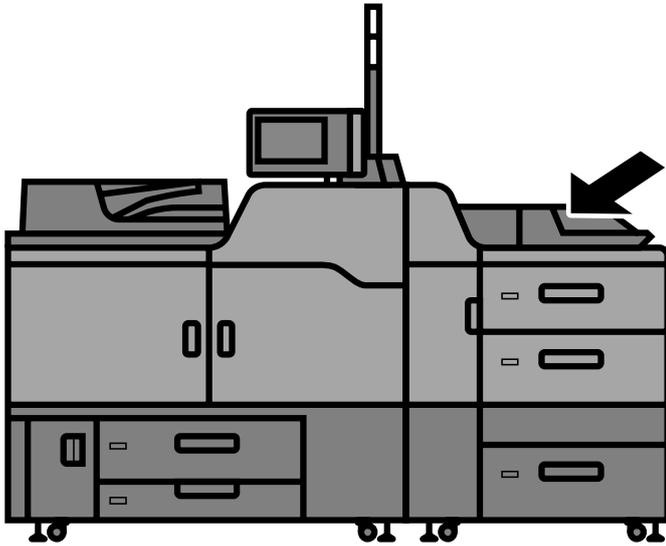
5. Align the markers at (1) and (2).



CEZ210

6. Use two black screws to reattach the side plate.
7. Push the bottom tray (Tray 5) back inside the machine.
8. Reattach the tab fence, and then close the wide LCT front cover.
9. Turn on the main machine and wait for the machine to warm up.
10. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Resetting the Replaceable Parts Counter".)
11. Reset the replaceable parts counter for the replaced rollers. (See p.20 "Resetting the Replaceable Parts Counter".)

2.6 Replacing the Rollers in the Multi Bypass Tray (Tray 6)

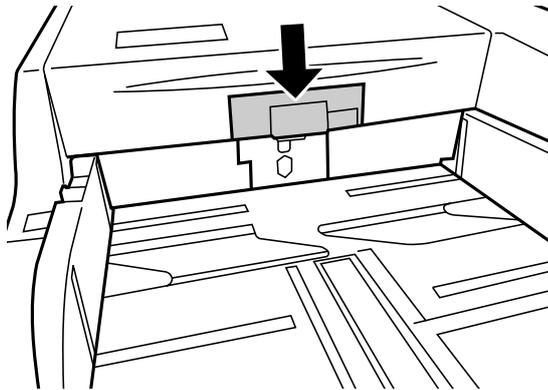


CEZ224

The bypass feed rollers can be accessed from the top of the wide LCT.

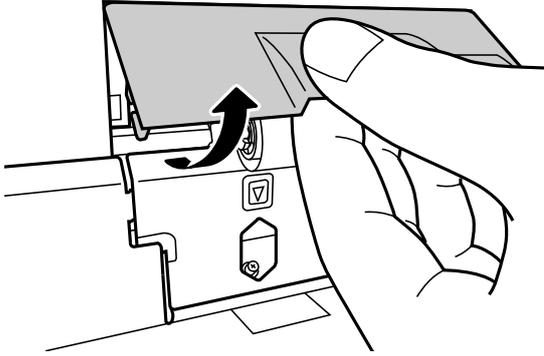
2.6.1 Removing the Rollers: Multi Bypass Tray (Tray 6)

Note: The rollers are behind the snap-off cover.



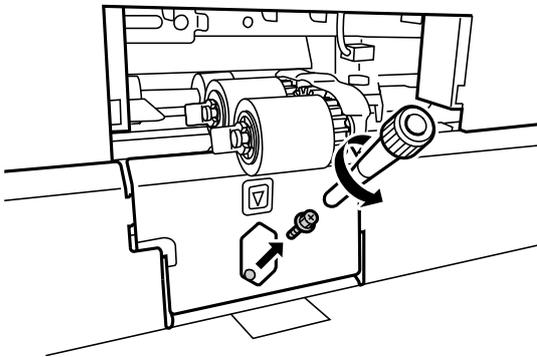
CEZ167

1. Pull off the snap-off cover.



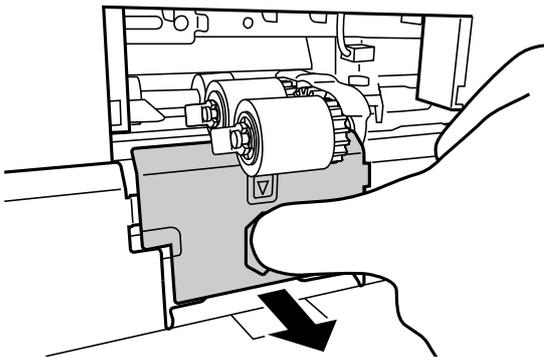
CEZ168

2. Remove the black screw.



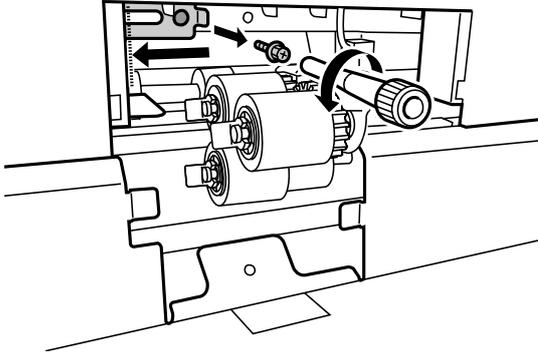
CEZ169

3. Remove the plate.



CEZ170

4. Remove the black screw on the sensor positioning plate.



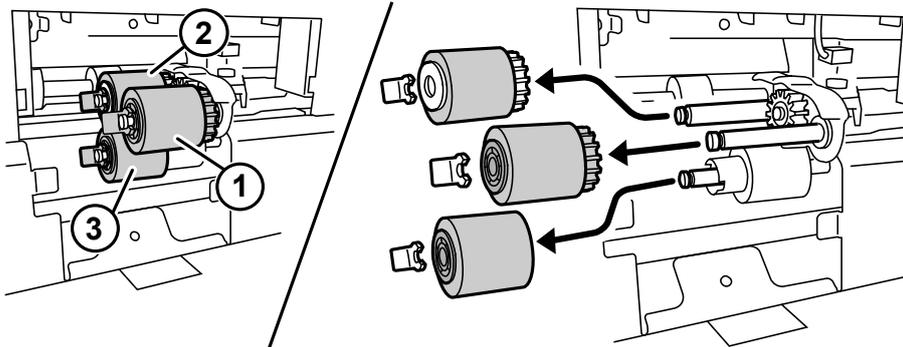
CEZ171

5. Push the sensor positioning plate to the left.

Note: If this plate is not pushed to the left, you will not be able to remove the paper feed roller.

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

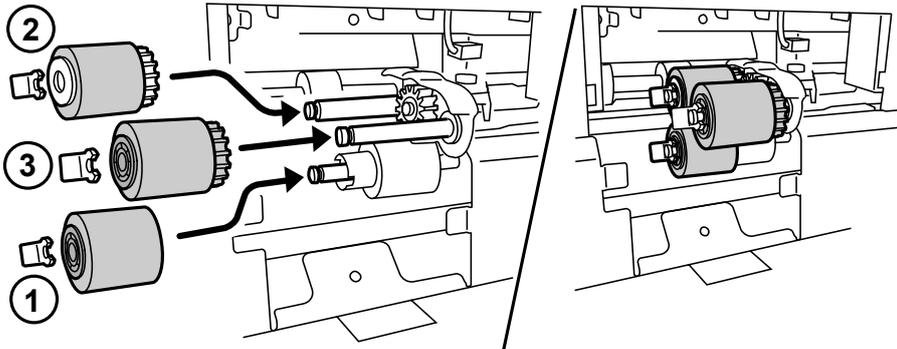
- (1) Pick-up roller snap ring and roller
- (2) Feed roller snap ring and roller
- (3) Separation snap ring and roller



CEZ172

2.6.2 Installing the Rollers: Multi bypass Tray (Tray 6)

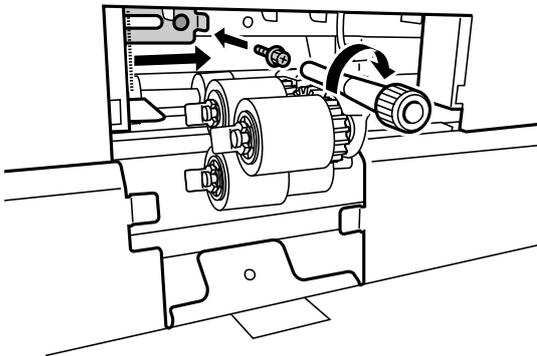
1. Attach the new paper feed roller in the following order:
 - (1) Separation snap ring and roller
 - (2) Feed roller snap ring and roller
 - (3) Pick-up roller snap ring and roller



CEZ174

Note: Avoid touching the surfaces of the new rollers with bare fingers.

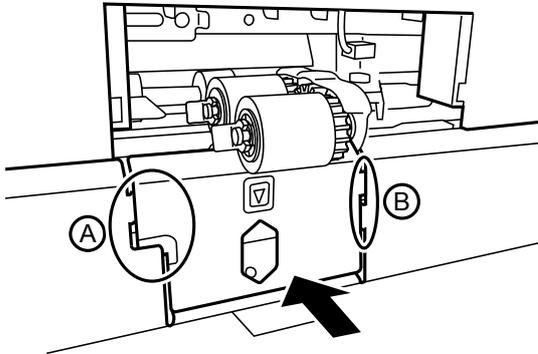
2. Push the sensor positioning plate to the right, and then reattach the black screw.



CEZ173

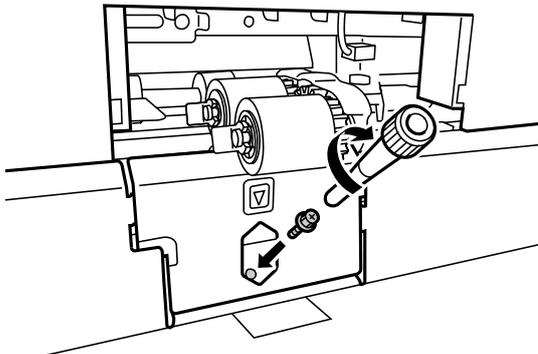
3. Reattach the plate.

Check the sides of the plate and make sure that the tabs fit correctly at (A) and (B).



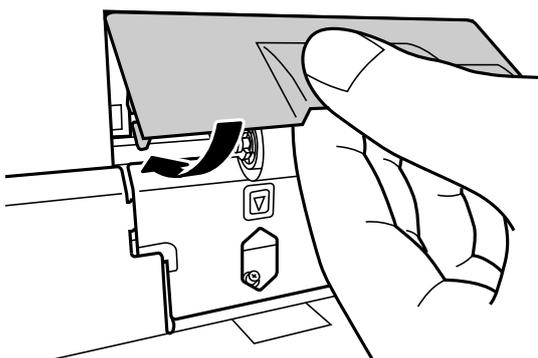
CEZ175

4. Fasten the plate with the black screw.



CEZ176

5. Reattach the snap-off cover.



CEZ177

6. Turn on the main machine and wait for the machine to warm up.
7. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Accessing the Adjustment Settings for Skilled Operators".)
8. Reset the replaceable parts counter for the replaced rollers. (See p.20 "Resetting the Replaceable Parts Counter".)

3. Charge Roller Unit and Cleaning Unit for PCU

What You Need

- Accessory hex screwdriver provided with the machine.
- A drop cloth, newspaper, or other paper to spread in front of the machine and to cover a nearby flat surface on which you can place the removed components.

WARNING

- To prevent electrical shock, turn off the color controller on the machine control panel, turn off the operation power switch and then the main power switch, and then disconnect the machine from the power supply before replacing any parts or cleaning the machine's interior.
- Allow the machine to cool for at least 30 minutes before replacing a part.

Replacement Message

```
Replacement Required: Charge Roller Unit  
(XXX)
```

-or-

```
Replacement Required: Cleaning Unit for  
Photoconductor Unit  
(XXX)
```

In the message, "xxx" denotes the color of the charge roller unit or cleaning unit for PCU that must be replaced.

If either message appears, follow the procedure below to replace each unit.

Preparation: Print the counter list.

1. Press the [Counter] key on the control panel (see p.13 "Control Panel".) and print out the counter list.
2. Turn the machine off. (See p.14 "Power Off Sequence".)

Important:

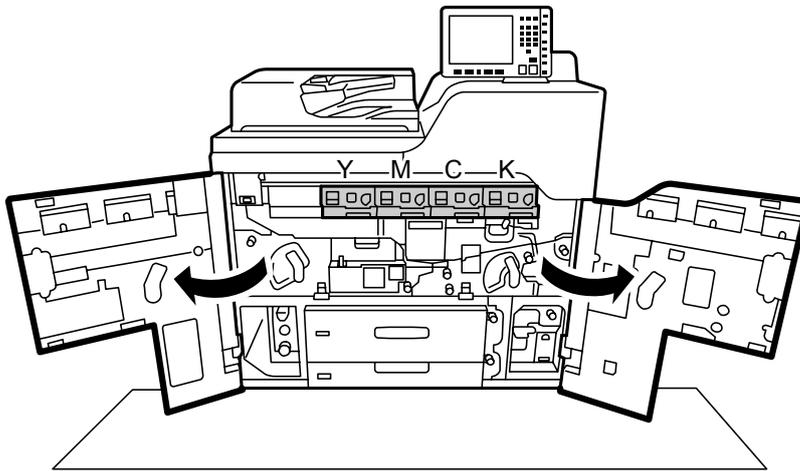
- The surface of a drum is sensitive to light.
- Exposing the surface of a drum to strong light (especially direct sunlight) can permanently damage it.

3.1 Removing the Charge Roller Unit and Cleaning Unit for PCU

Note: The charge roller unit and cleaning unit for PCU are in the Photoconductor and Development Unit (PCDU).

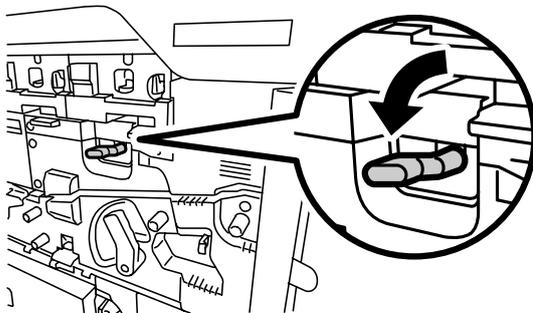
1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Spread a drop cloth or some paper in front of the machine.
3. Open the left and right front covers.

There are four PCDUs (YMCK). The removal and replacement procedures for the charge roller unit and cleaning unit for PCU described in this section are the same for all PCDUs.



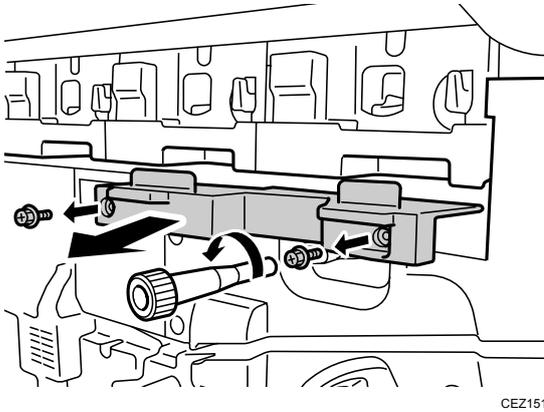
CEZ107

4. Pull down the intermediate transfer belt (ITB) release lever. (This separates the ITB from the bottoms of the drums so the surface of the ITB or drum will not be scratched when a PCDU is removed.)

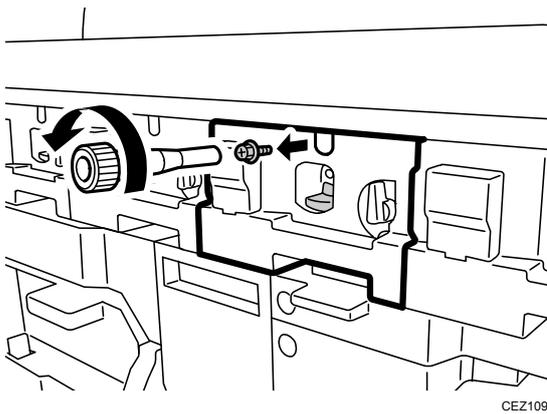


CEZ108

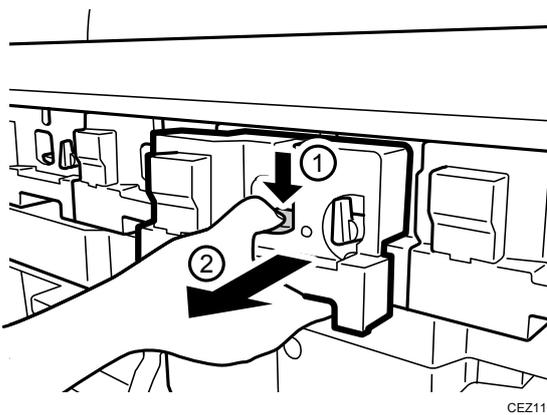
5. If you are replacing the units for yellow or magenta, proceed to Step 7. If you are replacing the units for cyan or black, remove the two black screws on the ITB release lever cover, and then remove the cover.



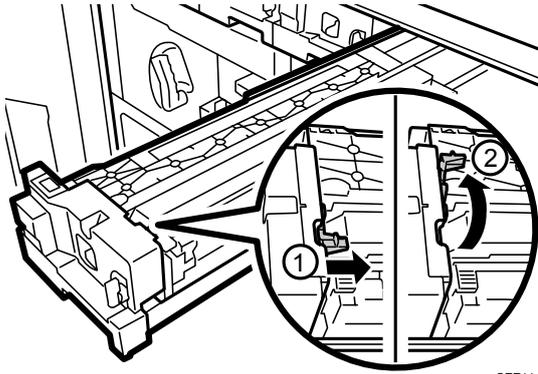
6. Remove the PCDU's lock screw.



7. Push down on the lock lever (1) and pull the PCDU out (2) until it stops.

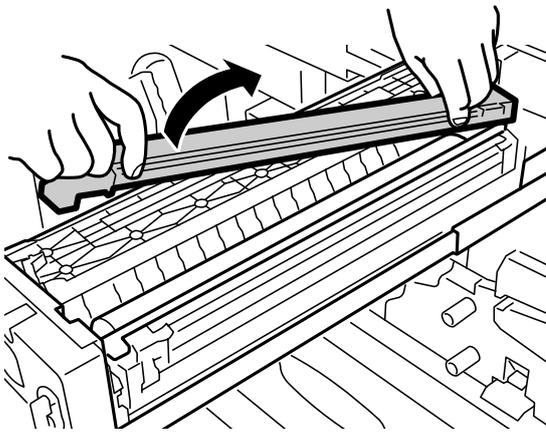


8. Push the lever to the rear (1) to release it, and then pull up the lever (2).



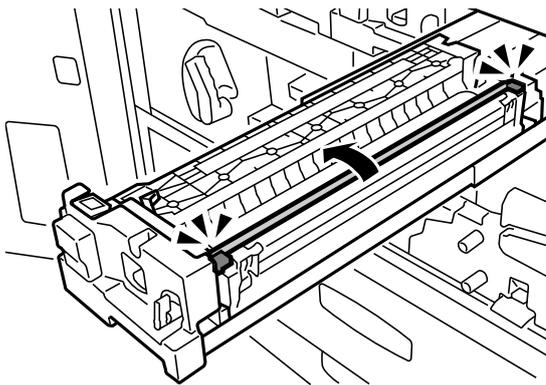
CEZ111

9. Holding the ends of the charge roller unit where the purple labels are, lift the end of the unit facing the front of the machine and remove the unit.



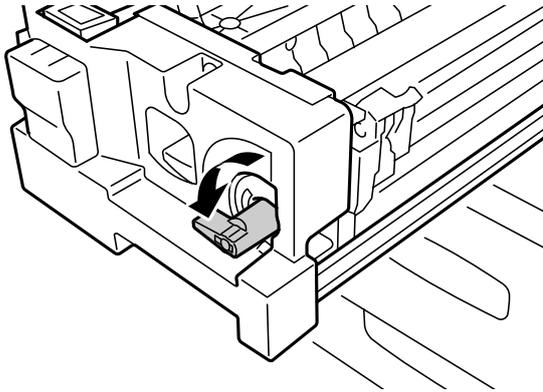
CEZ112

10. Hold the drum handle at both ends and pull it up.



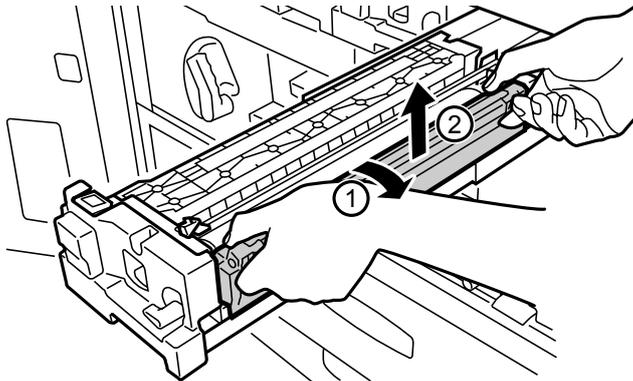
CEZ130

11. Turn the lock lever down to unlock the cleaning unit.



CEZ113

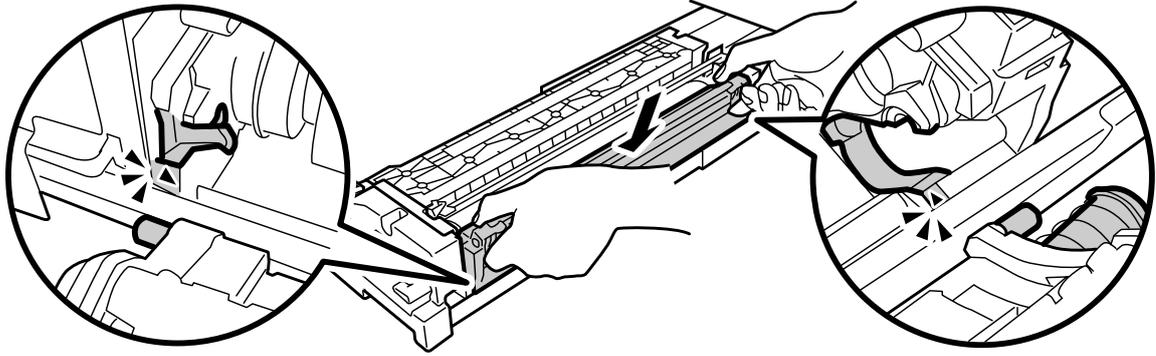
12. Holding the ends of the cleaning unit for PCU where the purple labels are, rotate the unit slightly to the right and lift it out.



CEZ131

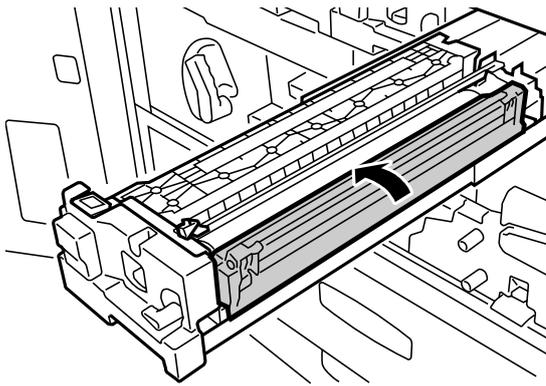
3.2 Installing the Charge Roller Unit and Cleaning Unit for PCU

1. Holding the ends of the cleaning unit for PCU where the purple labels are, attach the unit so that the triangular marks on it match up with those at the bottom of the PCDU.



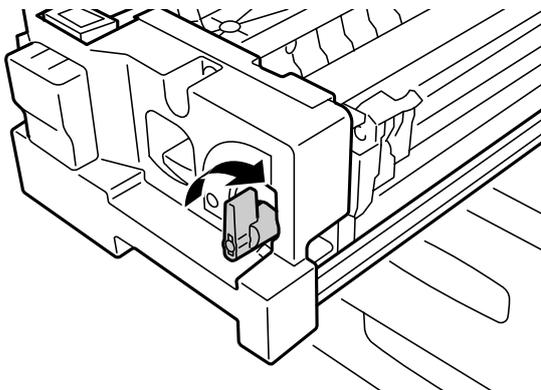
CEZ307

2. Rotate the cleaning unit for PCU to the left.



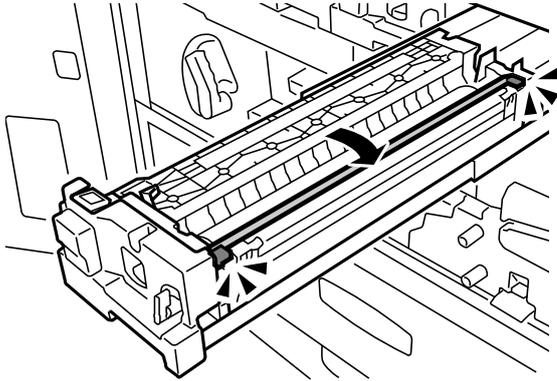
CEZ132

3. Pull up the lock lever to lock the cleaning unit for PCU.



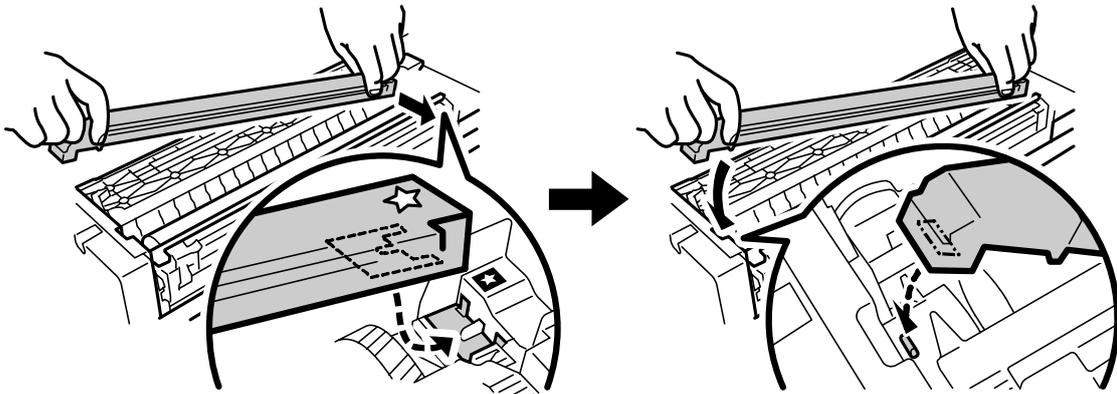
CEZ114

4. Hold the drum handle at both ends and pull it down.



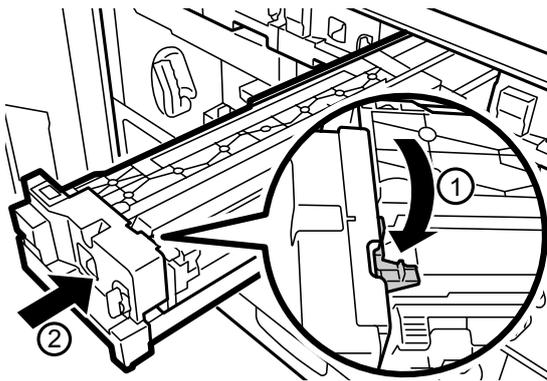
CEZ218

5. Holding the ends of the charge roller unit where the purple labels are, connect the end of the unit that will face the rear of the machine with the lug, and then lower the unit so that the notch in the other end connects with the lug.



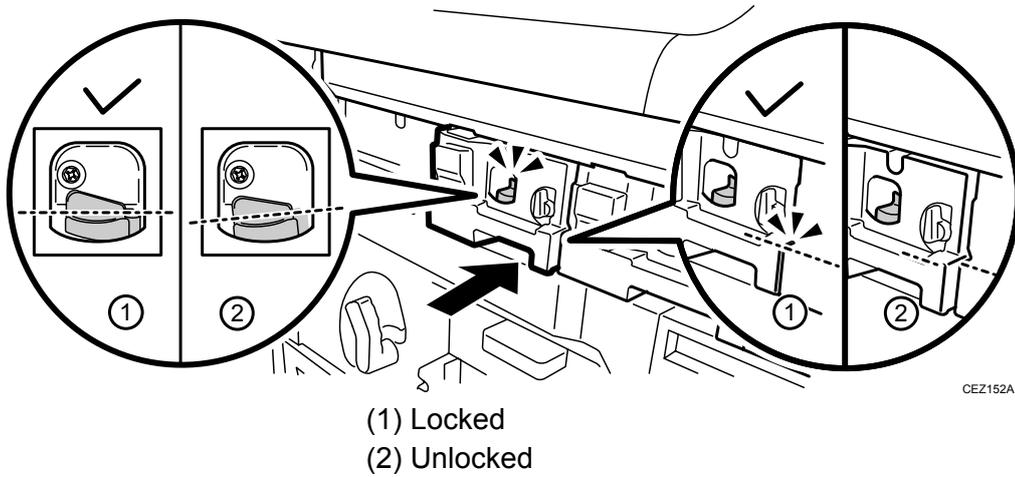
CEZ133

6. Pull down the charger roller unit lock lever to the locked position, and then slowly push the PCDU into the machine.



CEZ134

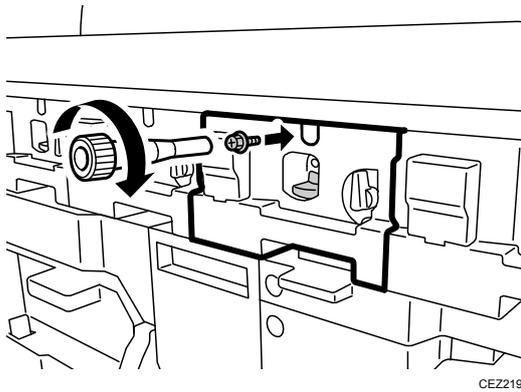
7. Push the PCDU in until the lock lever clicks and pops up.



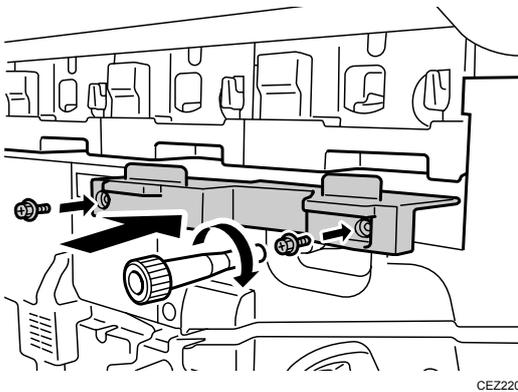
Important:

- Do not forcefully push in the PCDU. Doing so may cause damage or toner spillage.
- If the PCDU's lock lever does not work, then the joint on the inner side of the photoconductor may not be properly engaged. If this happens, pull the PCDU out more than 30 mm (1.2 inches) and push it in again.

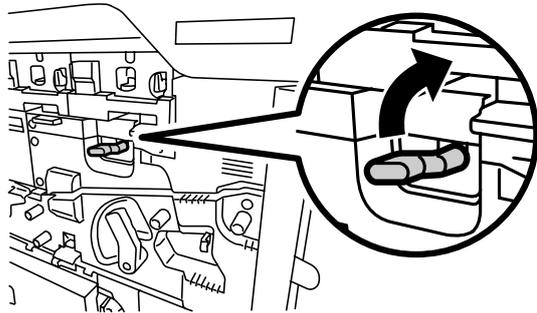
8. Reattach the black screw.



9. If you have detached the ITB release lever cover, reattach it, and then secure it with the two black screws.



10. Pull up the ITB release lever.



CEZ115

11. Reconnect the power cord to the power source.



12. Turn the machine's main power switch to ON, close the left and right front covers, and then wait for the machine to warm up.

13. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Accessing the Adjustment Settings for Skilled Operators".)

14. Reset the replaceable parts counter for the replaced charge roller unit and cleaning unit for PCU. (See p.20 "Resetting the Replaceable Parts Counter".)

15. In the [Adjustment Settings for Skilled Operators] menu, do one of the following according to the unit that has been replaced:

<After replacing the cleaning unit for PCU >

(1) Press [0301: Execute Cleaning Initial Setting], and then select the color of the unit that has been replaced.

(2) Press [0302: Execute Process Initial Setting], and then select [All Colors].

<After replacing the charge roller unit >

Press [0302: Execute Process Initial Setting], and then select [All Colors].

<If the charge roller unit and cleaning unit for PCU are both replaced >

(1) Press [0301: Execute Cleaning Initial Setting], and then select the color of the unit that has been replaced.

(2) Press [0302: Execute Process Initial Setting], and then select [All Colors].

16. Press [OK] and wait for the operation to finish.

This operation takes between one and two minutes during which time a message appears on the control panel. Do not open the front covers while the message is being displayed.

4. Drum Unit

What You Need

- Accessory hex screwdriver provided with the machine.
- A drop cloth, newspaper, or other paper to spread in front of the machine and to cover a nearby flat surface on which you can place the removed components.

WARNING

- To prevent electrical shock, turn off the color controller on the machine control panel, turn off the operation power switch and then the main power switch, and then disconnect the machine from the power supply before replacing any parts or cleaning the machine's interior.
- Allow the machine to cool for at least 30 minutes before replacing a part.

Replacement Message

```
Replacement Required: Photoconductor Unit  
(xxx)
```

In the message, "xxx" denotes the color of the drum unit that must be replaced.

Preparation: Print the counter list.

1. Press the [Counter] key on the control panel (see p.13 "Control Panel".) and print out the counter list.
2. Turn the machine off. (See p.14 "Power Off Sequence".)

Important:

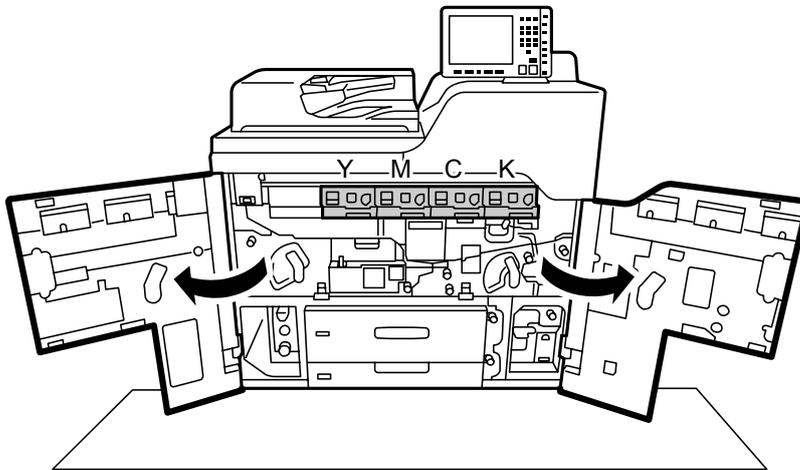
- The surface of a drum is sensitive to light.
- Exposing the surface of a drum to strong light (especially direct sunlight) can permanently damage it.
- Never remove a new drum from its package until you are ready to install it.
- Always install a new drum as soon as you remove it from its package.

4.1 Removing the Drum Unit

Note: The drum unit is in the Photoconductor and Development Unit (PCDU).

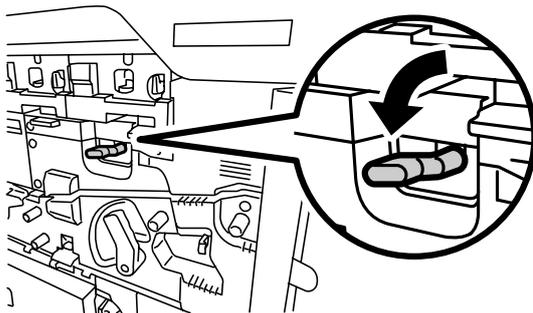
1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Spread a drop cloth or some paper in front of the machine.
3. Open the left and right front covers.

There are four PCDUs (YMCK). The removal and replacement procedures for the drum unit described in this section are the same for all PCDUs.



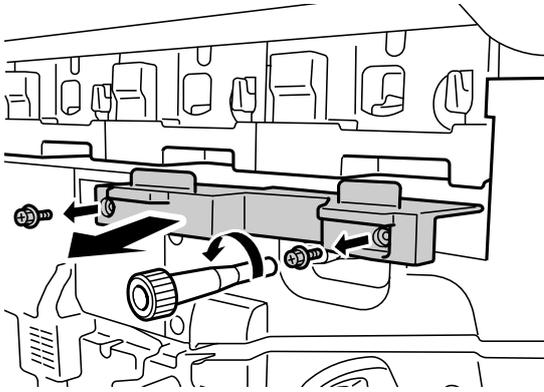
CEZ107

4. Pull down the ITB release lever. (This separates the ITB from the bottoms of the drums so the surface of the ITB or drum will not be scratched when a PCDU is removed.)

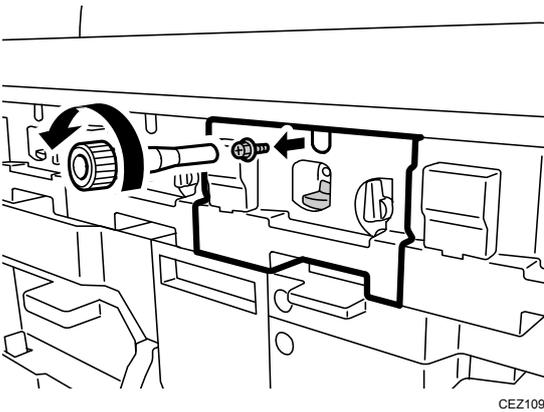


CEZ108

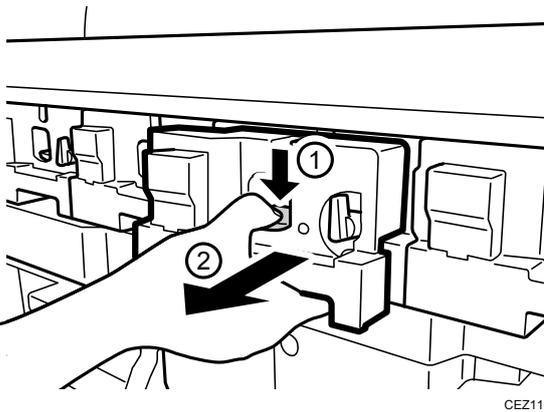
5. If you are replacing the units for yellow or magenta, proceed to Step 7. If you are replacing the units for cyan or black, remove the two black screws on the ITB release lever cover, and then remove the cover.



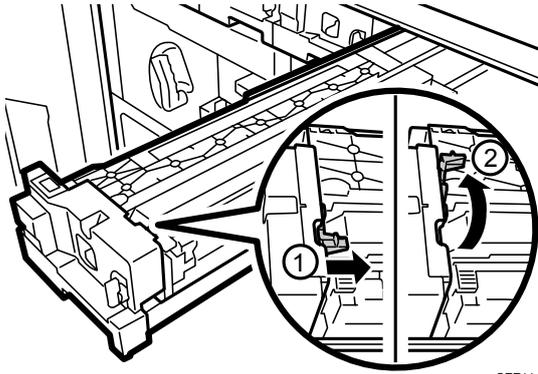
6. Remove the PCDU's lock screw.



7. Press down on the lock lever (1) and pull the PCDU out (2) until it stops.

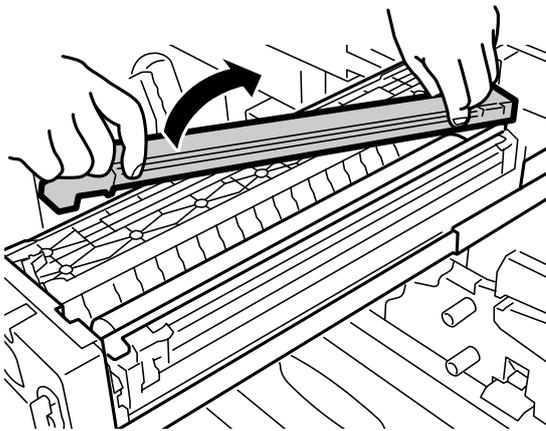


8. Push the lever to the rear (1) to release it, and then pull up the lever (2).



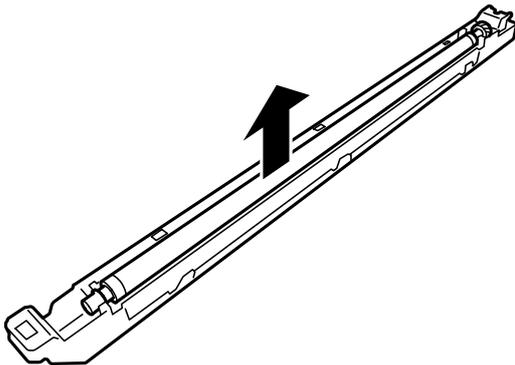
CEZ111

9. Holding the ends of the charge roller unit where the purple labels are, lift the end of the unit facing the front of the machine and remove the unit.



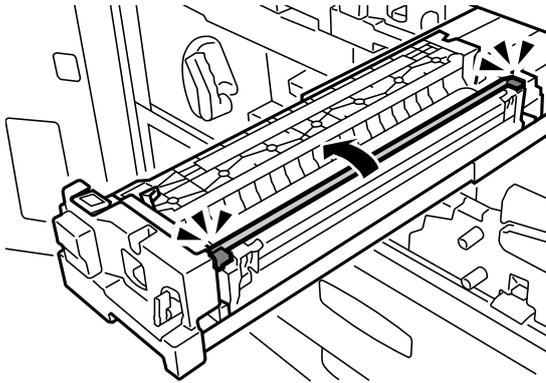
CEZ112

10. Place the charge roller unit down with the roller facing up.



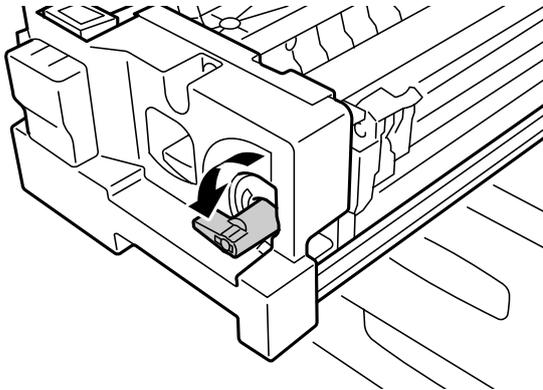
CEZ153

11. Pull up the drum handle.



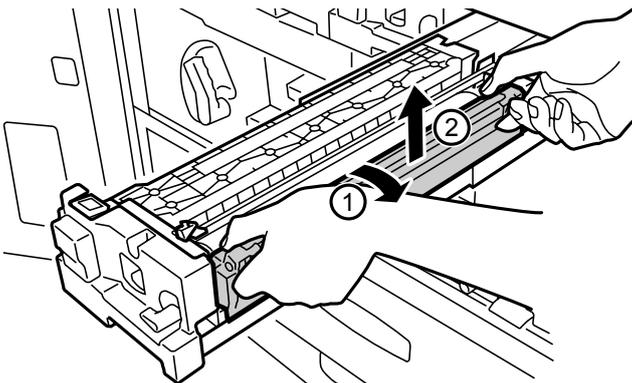
CEZ130

12. Turn the lock lever counterclockwise to unlock the cleaning unit.



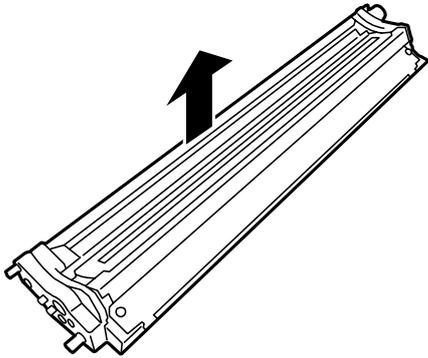
CEZ113

13. Holding the ends of the cleaning unit for PCU where the purple labels are, rotate the unit slightly to the right and lift it out.



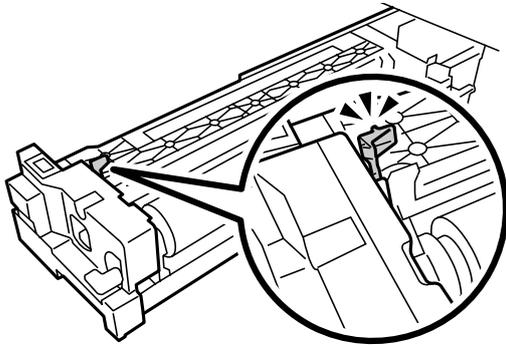
CEZ131

14. Place the cleaning unit for PCU down with its open end up to prevent toner spillage.



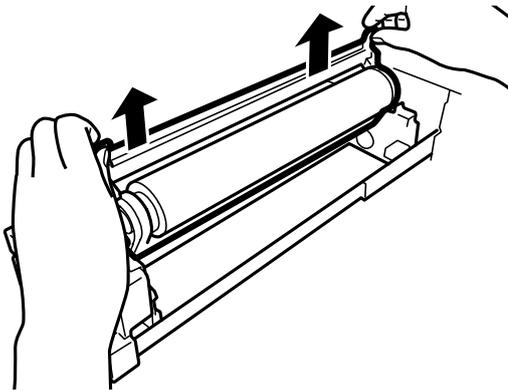
CEZ154

15. Make sure that the lock lever is up.



CEZ155

16. Grasp both ends of the handle and lift the drum out.



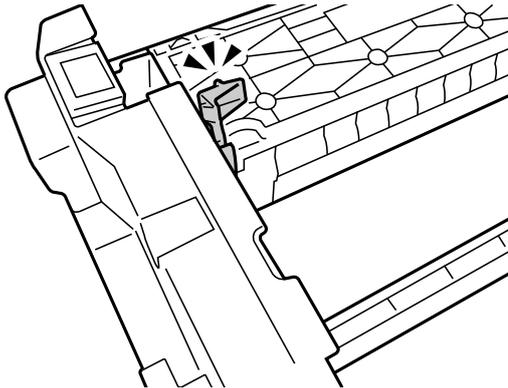
CEZ136

4.2 Installing the Drum Unit

Important:

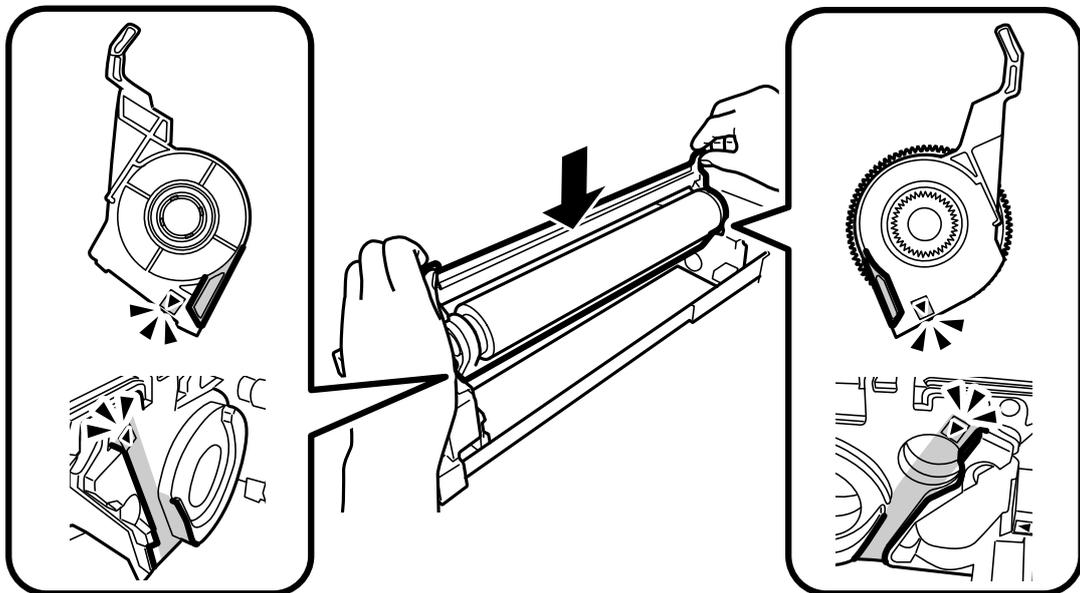
- The drum unit is sensitive to light.
- Install the drum immediately after removing it from its package.

1. Remove the new drum from its package.
2. Make sure that the lock lever (A) is up.



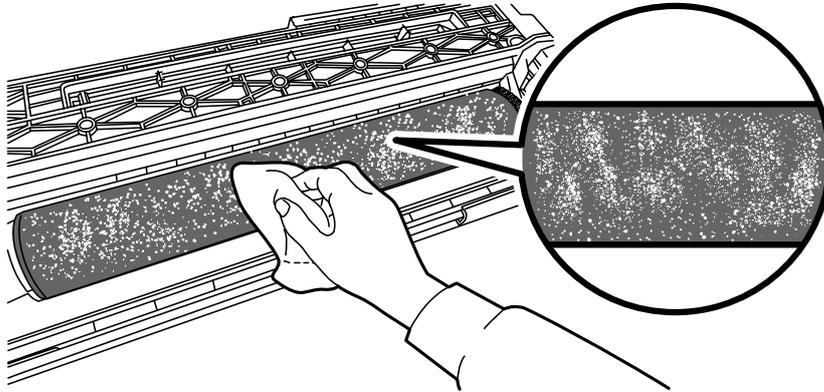
CEZ165

3. Pick up the drum unit by holding the handles on both ends, and then attach the drum unit so the triangular marks on it match up with those at the top of the PCDU.



CEZ308

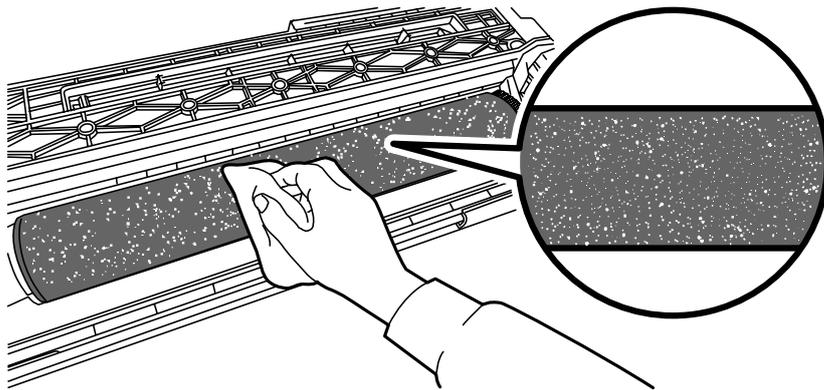
- Using the setting powder pad applicator, apply setting powder to the part of the drum surface facing upward (the part that is visible) until it becomes speckled with powder.



CEZ518

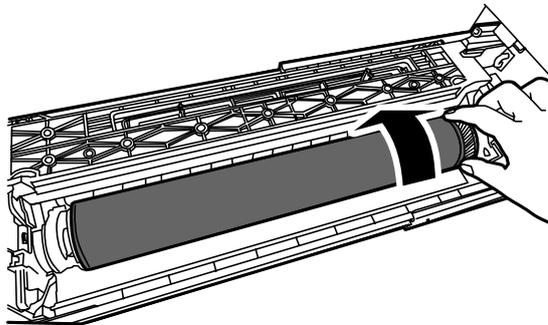
Important:

- The setting powder is an inert substance that is not harmful to the human body.
- Gently wipe the drum surface with a clean dry cloth to spread the setting powder evenly.



CEZ519

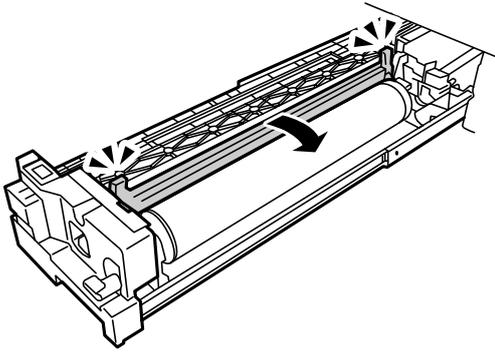
- Turn the drum gear up until the next untreated part of the drum surface becomes visible.



CEZ520

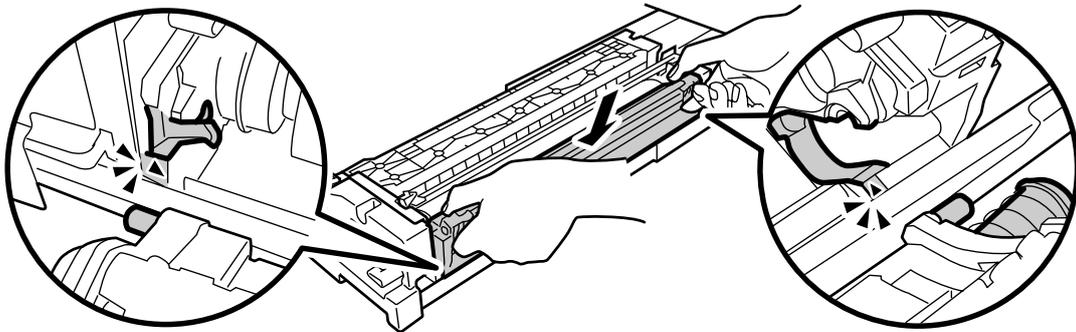
- Repeat steps 4 to 6 until you have applied setting powder to the entire drum surface.

8. Hold the drum handle at both ends and pull it down.



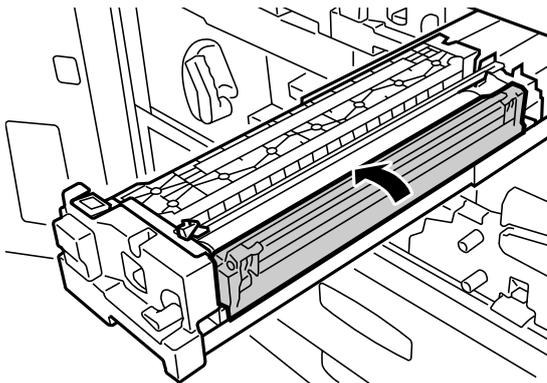
CEZ309

9. Holding the ends of the cleaning unit for PCU where the purple labels are, attach the unit so that the triangular marks on it match up with those at the bottom of the PCDU.



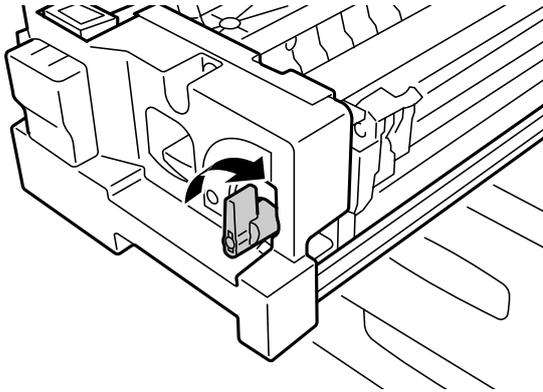
CEZ307

10. Rotate the cleaning unit for PCU to the left.



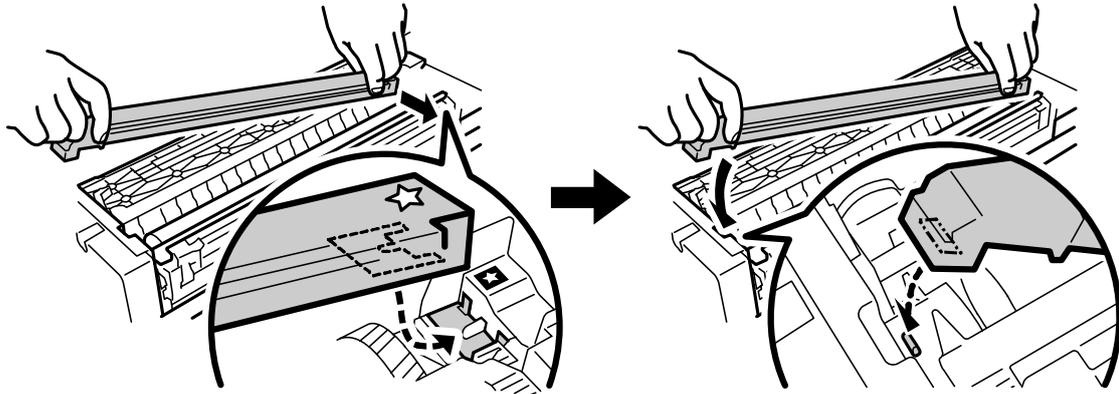
CEZ132

11. Pull up the lock lever to lock the cleaning unit for PCU.



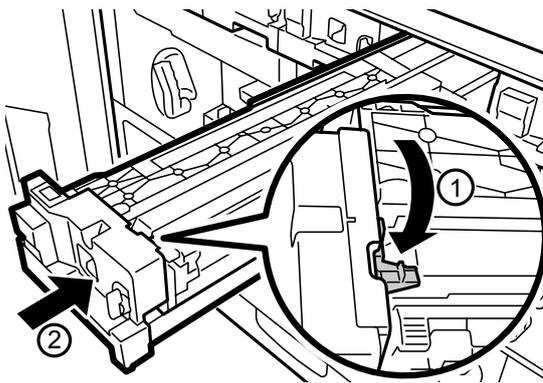
CEZ114

12. Holding the ends of the charge roller unit where the purple labels are, connect the end of the unit that will face the rear of the machine with the lug, and then lower the unit so that the notch in the other end connects with the lug.



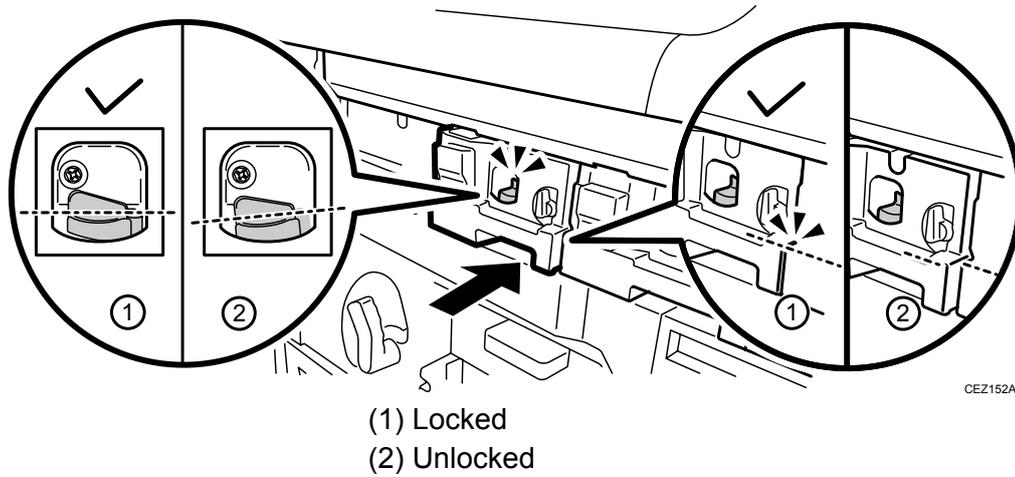
CEZ133

13. Pull down the charger roller unit lock lever to the locked position, and then slowly push the PCDU into the machine.



CEZ134

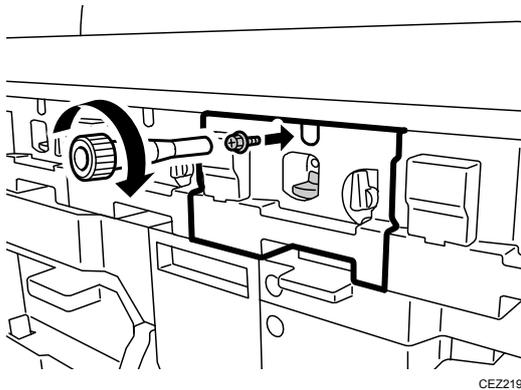
14. Push the PCDU in until the lock lever clicks and pops up.



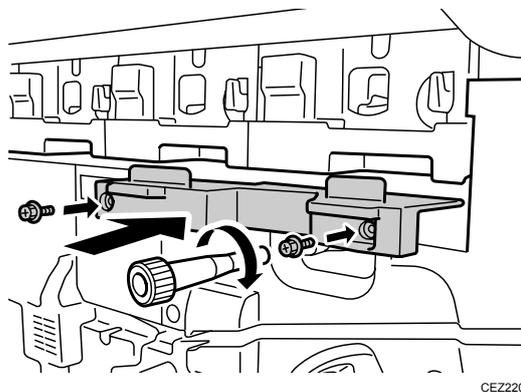
Important:

- Do not forcefully push in the PCDU. Doing so may cause damage or toner spillage.
- If the PCDU's lock lever does not work, then the joint on the inner side of the photoconductor may not be properly engaged. If this happens, pull the PCDU out more than 30 mm (1.2 inches) and push it in again.

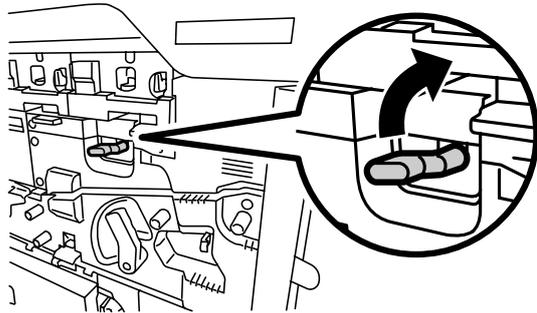
15. Reattach the black screw.



16. If you detached the ITB release lever cover, reattach it and then secure it with the two black screws.



17. Pull up the ITB release lever.



CEZ115

18. Reconnect the power cord to the power source.

19. Turn the machine's main power switch to ON, close the left and right front covers, and then wait for the machine to warm up.

20. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Accessing the Adjustment Settings for Skilled Operators".)

21. Reset the replaceable parts counter for the replaced drum unit. (See p.20 "Resetting the Replaceable Parts Counter".)

22. On the Adjustment Settings for Skilled Operators menu, press [0302: Execute Process Initial Setting], and then select [All Colors].

23. Press [OK] and wait for the operation to finish.

This operation takes between one and two minutes during which time a message appears on the control panel. Do not open the front covers while the message is being displayed.

Execute this only once each time a drum is replaced.

5. Cleaning Unit for Intermediate Transfer Belt

What You Need

- Accessory hex screwdriver provided with the machine.
- A drop cloth, newspaper, or other paper to spread in front of the machine and to cover a nearby flat surface on which you can place the removed components.

WARNING

- To prevent electrical shock, turn off the color controller on the machine control panel, turn off the operation power switch and then the main power switch, and then disconnect the machine from the power supply before replacing any parts or cleaning the machine's interior.
- Allow the machine to cool for at least 30 minutes before replacing a part.

Replacement Message

```
Replacement Required: Intermed. Trans. Belt Cleaning  
Unit  
Follow replacement instructions to replace the parts.
```

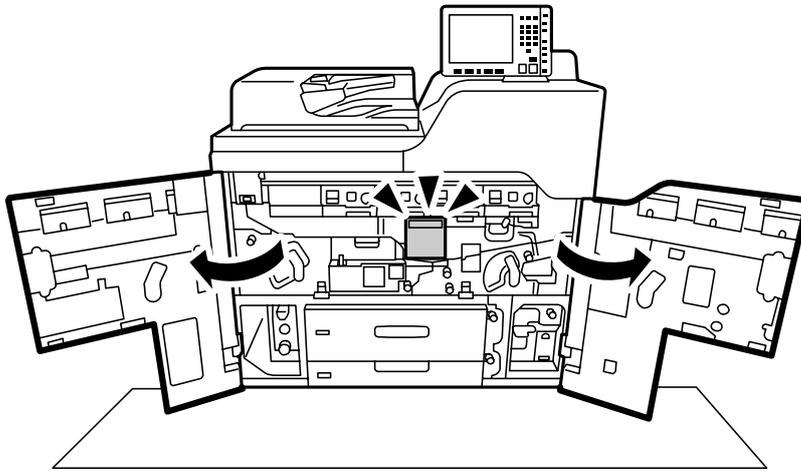
Preparation: Print the counter list.

1. Press the [Counter] key on the control panel (see p.13 "Control Panel".) and print out the counter list.
2. Turn the machine off. (See p.14 "Power Off Sequence".)

5.1 Removing the Cleaning Unit for Intermediate Transfer Belt

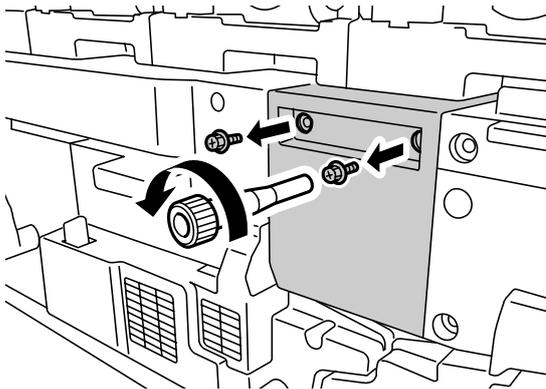
1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Spread a drop cloth or some paper in front of the machine.
3. Open the left and right front covers.

The cleaning unit for intermediate transfer belt is located below the Photoconductor and Development Units (PCDUs) near the center of the machine.



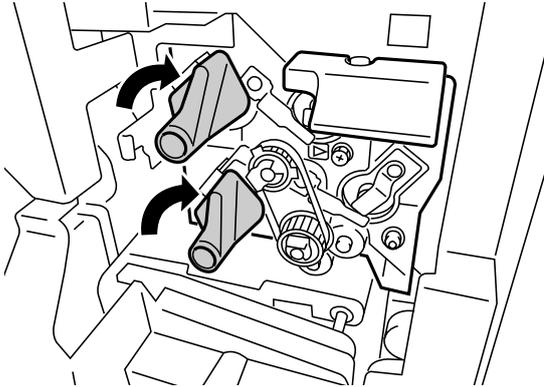
CEZ116

4. Remove the two black screws and cover.



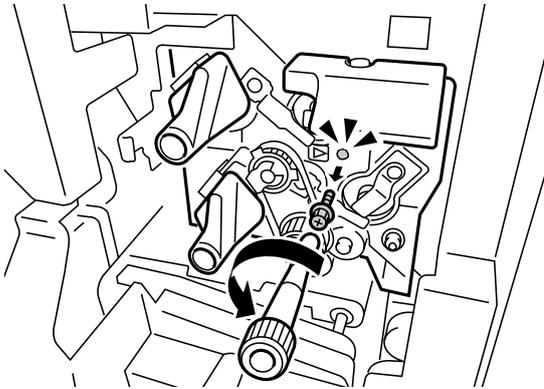
CEZ117

5. Pull up both levers.



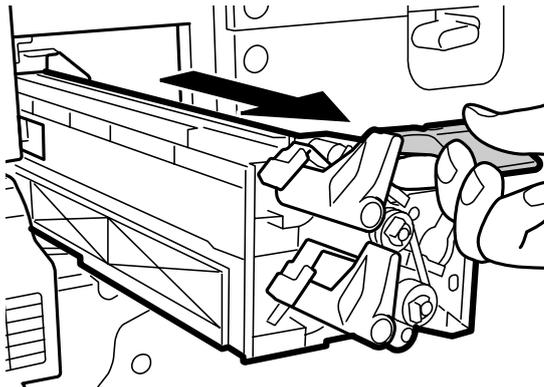
SEZ156

6. Remove the black screw.



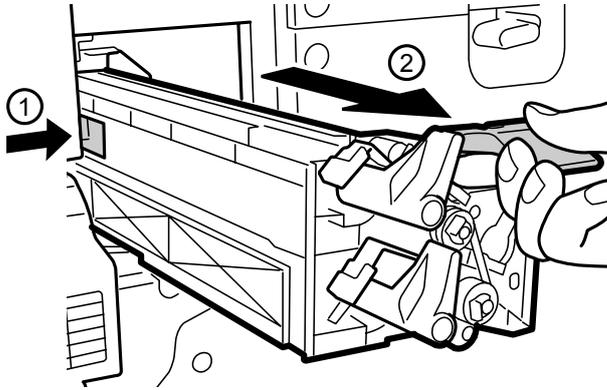
SEZ157

7. Using the handle, carefully pull the cleaning unit for intermediate transfer belt toward you until it can go no further.



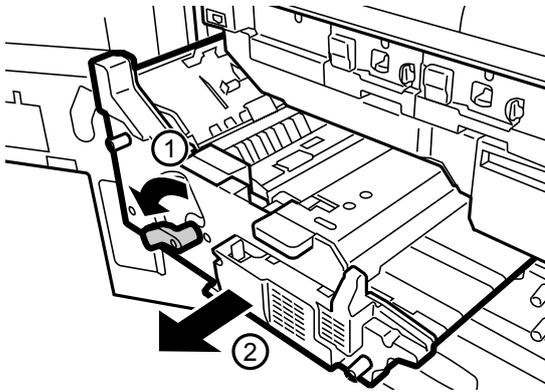
CEZ159

8. While pressing the lock tab, carefully pull out the cleaning unit for intermediate transfer belt.



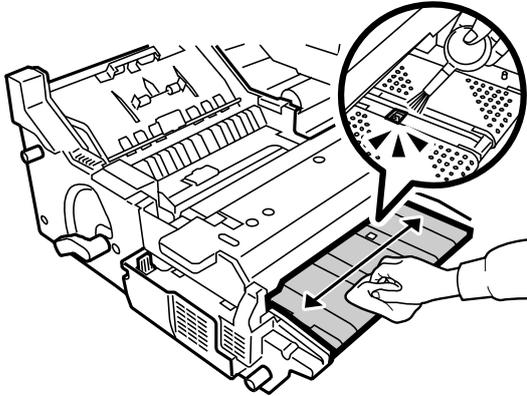
SEZ160

9. Pull down the lever C1, and then pull the left drawer out completely until it stops.



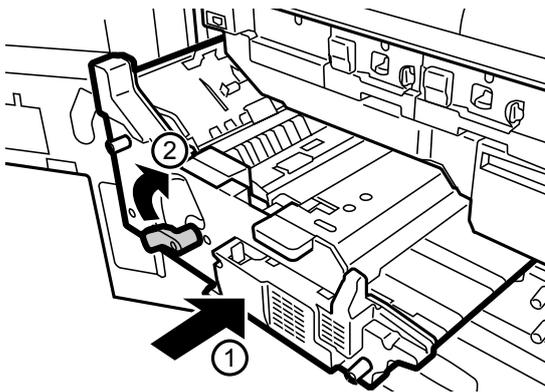
CEZ124

10. Use a dry cloth to clean the transport belt unit. Be careful to avoid the paper transport belt sensor when you do this. To clean the sensor, use a blower brush.



CEZ225

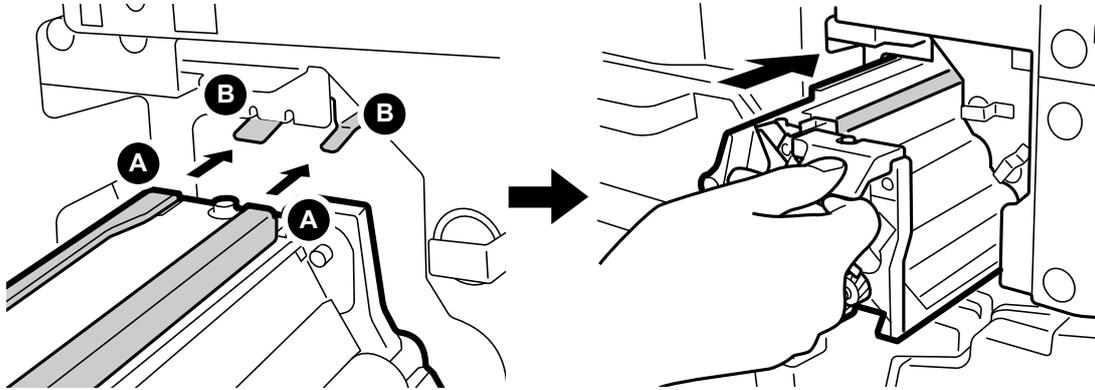
11. Push the left drawer slowly into the machine until it stops, and then pull up the lever C1.



CEZ128

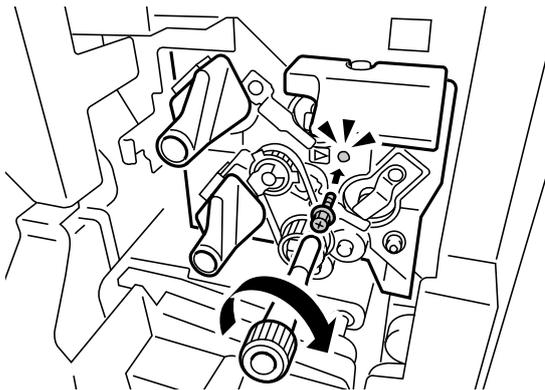
5.2 Installing the Cleaning Unit for Intermediate Transfer Belt

1. Mount the cleaning unit for intermediate transfer belt (A) on its rails (B), and then carefully push it in until it can go no further.



CEZ118

2. Reattach the black screw.



CEZ166

Note: Do not touch the levers and do not reattach the cover yet.

3. Remove the transfer unit. For details, see p.76 "Removing the Transfer Unit".
4. Close the right drawer with the transfer unit detached.
5. Reconnect the power cord to the power source.
6. Turn the machine's main power switch to ON, and close the both front doors.
7. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Accessing the Adjustment Settings for Skilled Operators".)
Note: Although the alert message of "Cover Open" is on the operation panel, press the [User Tools] key on the control panel.
8. Reset the replaceable parts counter for the replaced cleaning unit for intermediate transfer belt. (See p.20 "Resetting the Replaceable Parts Counter".)

9. Open the right front door and, on the Adjustment Settings for Skilled Operators menu, press [0303: ITB Manual Lubrication].

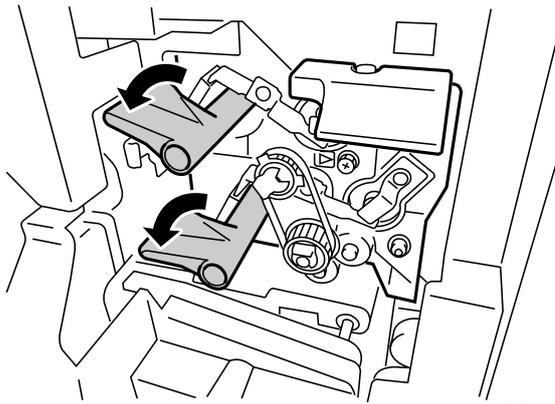
10. Press [OK] and close the right door. Wait for the operation to finish.

This operation takes about five minutes during which time a message appears on the control panel.

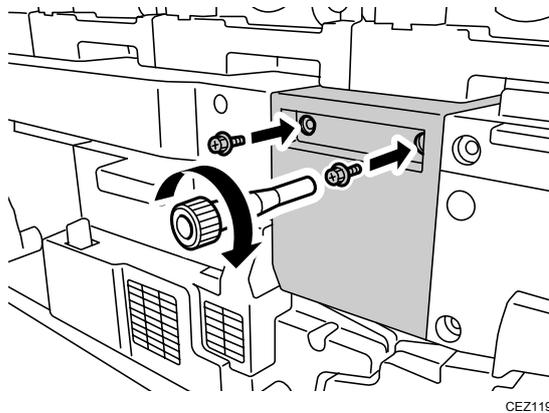
Note: Do not open the doors while it is in progress.

11. Open the left and right front doors.

12. Pull down both levers.

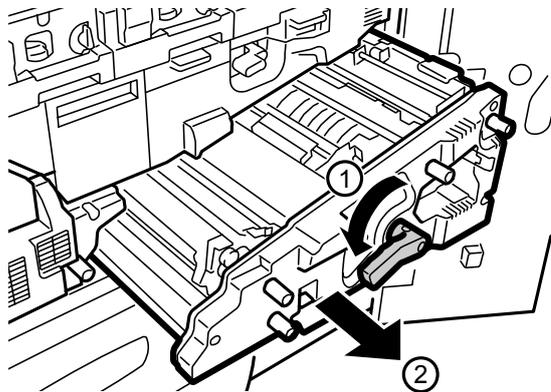


13. Reattach the cover with the two black screws.



14. Turn the machine off. (See p.14 "Power Off Sequence".)

15. Lower the lever B5 and pull out the right drawer until it stops.



CEZ121

16. Reattach the transfer unit. (See p.78 "Installing the Transfer Unit".)

6. Transfer Unit

What You Need

- Accessory hex screwdriver provided with the machine.
- A drop cloth, newspaper, or other paper to spread in front of the machine and to cover a nearby flat surface on which you can place the removed components.

WARNING

- To prevent electrical shock, turn off the color controller on the machine control panel, turn off the operation power switch and then the main power switch, and then disconnect the machine from the power supply before replacing any parts or cleaning the machine's interior.
- Allow the machine to cool for at least 30 minutes before replacing a part.

Replacement Message

```
Replacement Required: Transfer Roller  
Follow replacement instructions to replace the parts.
```

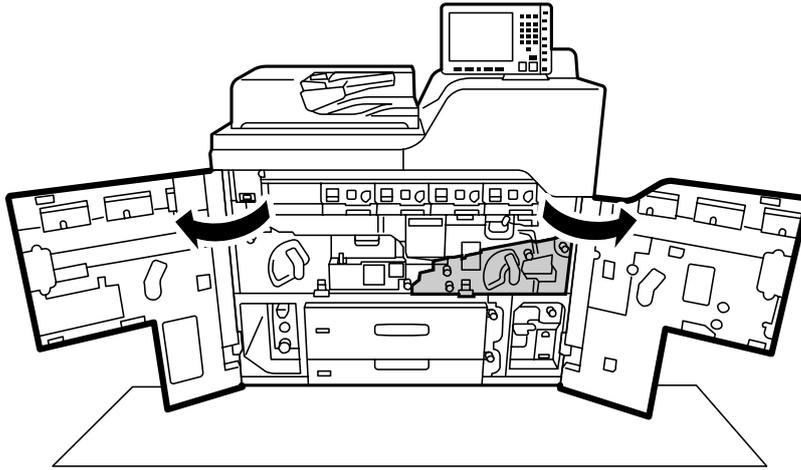
Preparation: Print the counter list.

1. Press the [Counter] key on the control panel (see p.13 "Control Panel".) and print out the counter list.
2. Turn the machine off. (See p.14 "Power Off Sequence".)

6.1 Removing the Transfer Unit

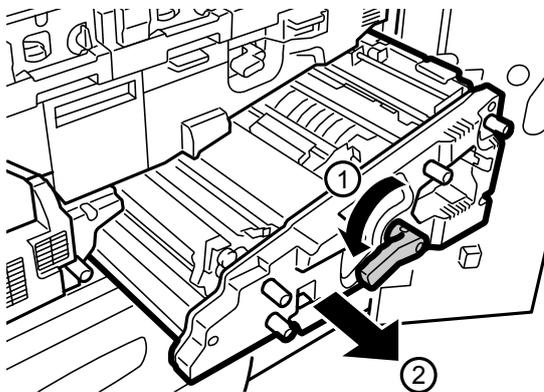
1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Spread a drop cloth or some paper in front of the machine.
3. Open the left and right front covers.

The transfer unit is located on the right drawer.



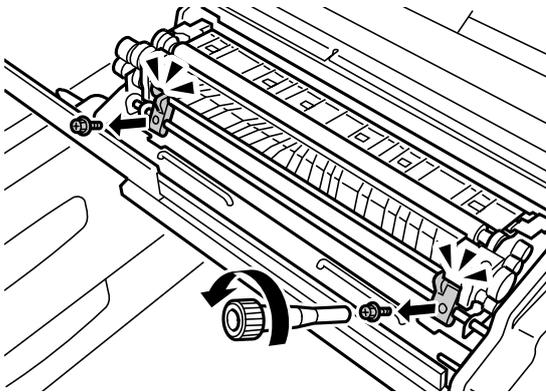
CEZ120

4. Pull down the lever B5 and pull out the right drawer until it stops.



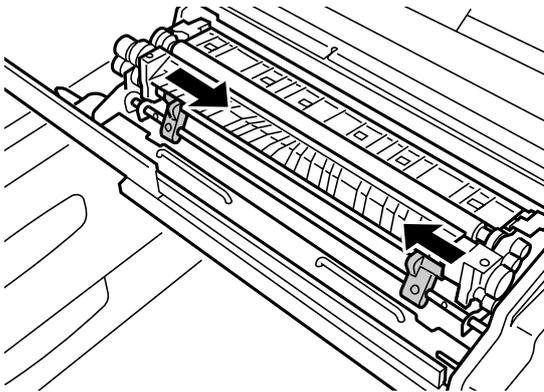
CEZ121

5. Remove the two black screws.



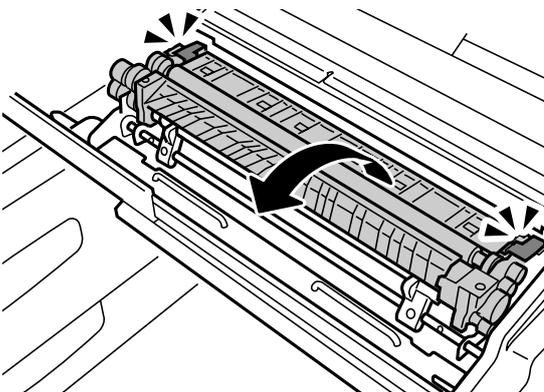
CEZ139

6. Push both arm supports toward the center until they stop.



CEZ140

7. Grip both ends of the unit by the metal handles, and then rotate the unit toward you to disconnect it from the shaft below and remove it.



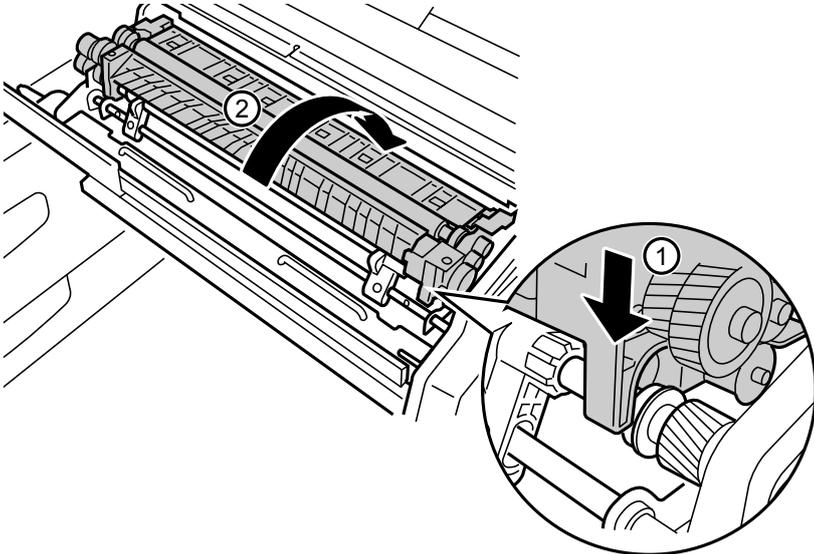
CEZ187

Important:

- To prevent toner spillage, always keep the transfer unit level.

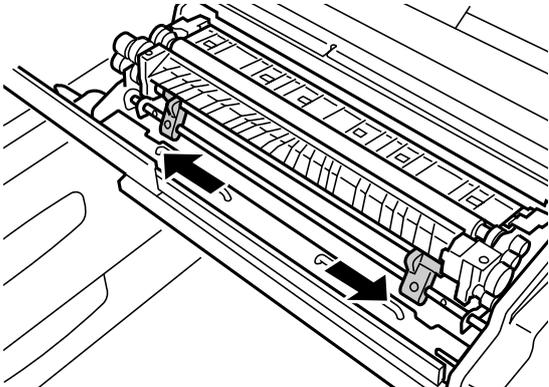
6.2 Installing the Transfer Unit

1. Hold the unit with the keyhole supports on both ends of the unit over the shaft, and then rotate it slightly forward.



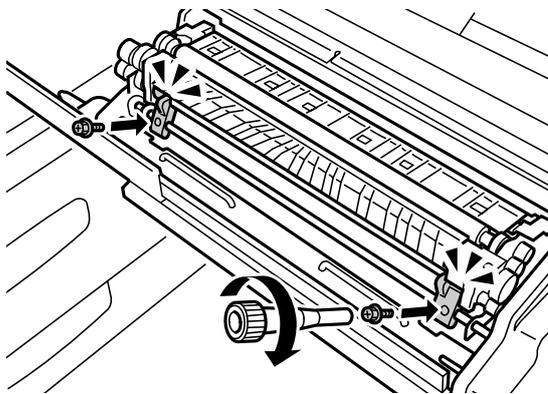
CEZ141

2. Push both support arms outwards until they stop.



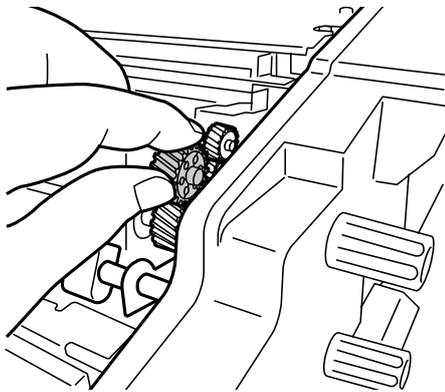
CEZ142

3. Reattach both black screws.



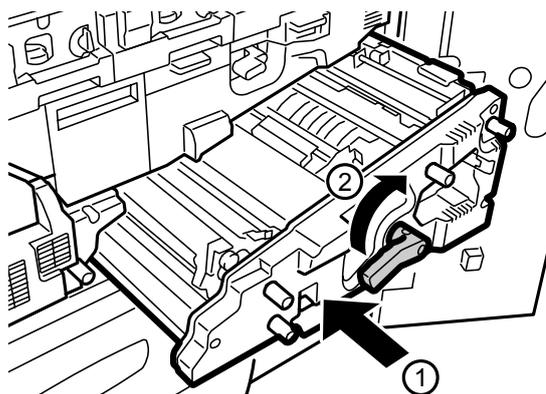
CEZ143

4. Turn the gears to check that they rotate freely.



CEZ217

5. Push the right drawer into the main unit until it stops, and then pull up the lever B5.



CEZ122

6. Reconnect the power cord to the power source.
7. Turn the machine's main power switch to ON, close the left and right front covers, and then wait for the machine to warm up.

8. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Accessing the Adjustment Settings for Skilled Operators".)
9. Reset the replaceable parts counter for the replaced transfer unit. (See p.20 "Resetting the Replaceable Parts Counter".)

7. Fusing Unit and Cleaning Unit for Fusing Unit

What You Need

- Accessory hex screwdriver provided with the machine.
- A drop cloth, newspaper, or other paper to spread in front of the machine and to cover a nearby flat surface on which you can place the removed components.

WARNING

- To prevent electrical shock, turn off the color controller on the machine control panel, turn off the operation power switch and then the main power switch, and then disconnect the machine from the power supply before replacing any parts or cleaning the machine's interior.
- The fusing unit becomes extremely hot during operation, so to prevent minor burns allow the machine to cool for at least 30 minutes before you remove the fusing unit.
- The fusing unit is small and weighs approximately 17 kg (37 lb.) so it can be lifted and carried easily by one person.

Replacement Message

Fusing Unit

```
Replacement Required: Fusing Unit
Follow replacement instructions to replace the parts.
```

Cleaning Unit for Fusing Unit

```
Replacement Required: Cleaning Unit for Fusing Unit
Follow replacement instructions to replace the parts.
```

Preparation: Print the counter list.

1. Press the [Counter] key on the control panel (see p.13 "Control Panel".) and print out the counter list.
2. Turn the machine off. (See p.14 "Power Off Sequence".)

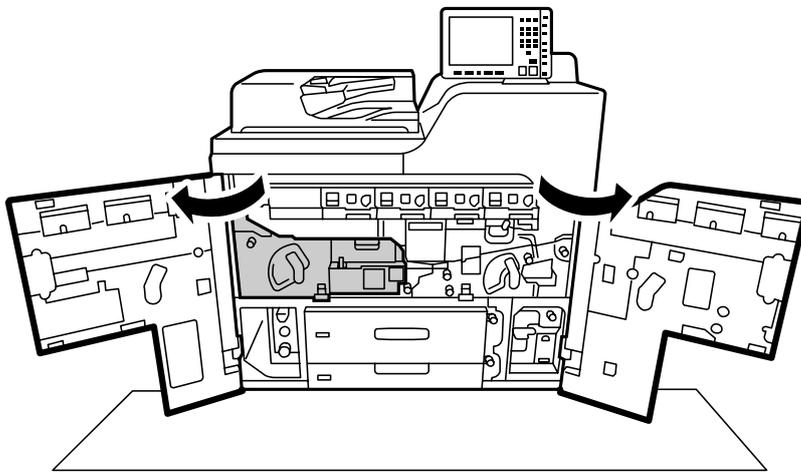
Important:

- The service life of the fusing unit is approximately 600K and the service life of the cleaning unit for fusing unit is approximately 450K.
- You can remove the cleaning unit for fusing unit from the old fusing unit and install it on the new fusing unit.

7.1 Removing the Fusing Unit and the Cleaning Unit for Fusing Unit

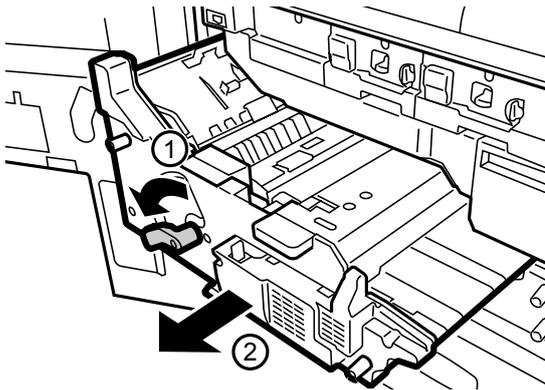
1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Spread a drop cloth or some paper in front of the machine.
3. Prepare a flat clean surface where you can place the fusing unit after it has been removed.
4. Open the left and right front covers.

The fusing unit is in the left drawer.



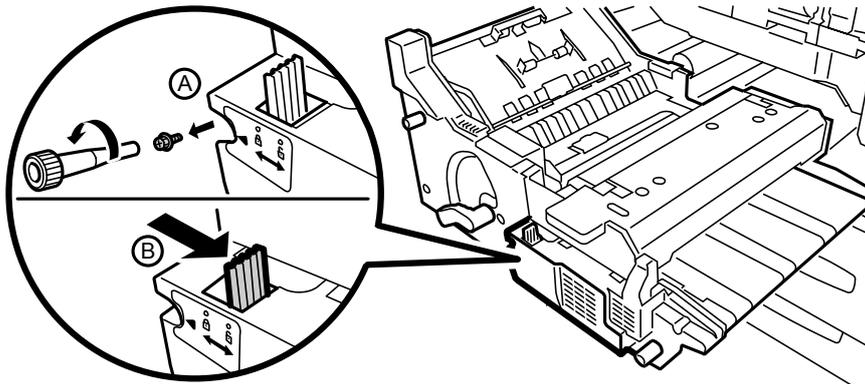
CEZ123

5. Pull down the lever C1, and then pull the left drawer out completely until it stops.



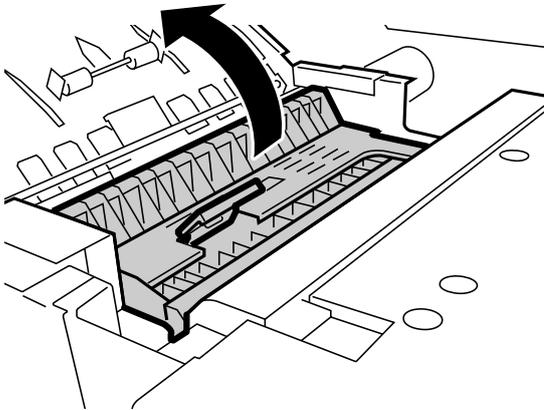
CEZ124

6. Remove the black screw (A), and then push the lock lever to the right (B).



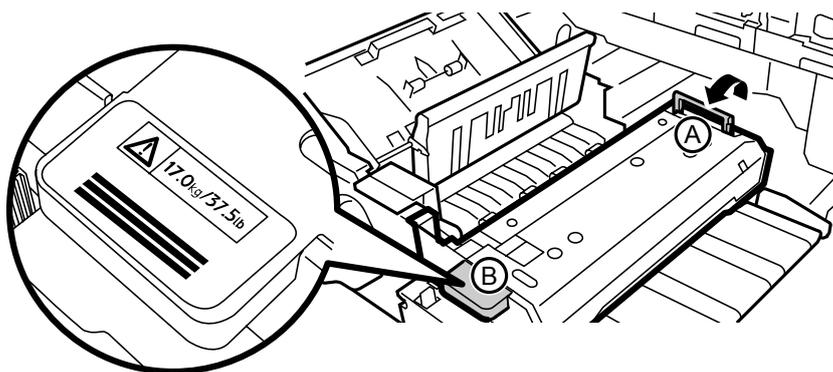
CEZ125

7. Pull up the cover D3.



CEZ126

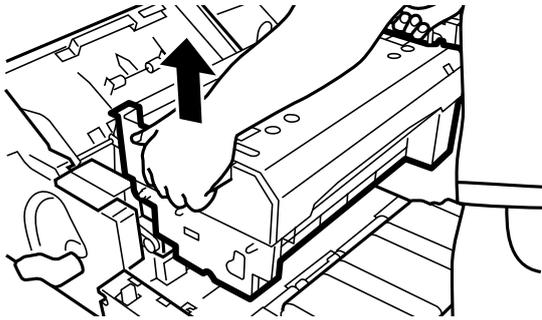
8. Pull up the handle (A) and grip the front of the fusing unit (B).



CEZ144

Note: The fusing unit weighs about 17 kg (37 lb.).

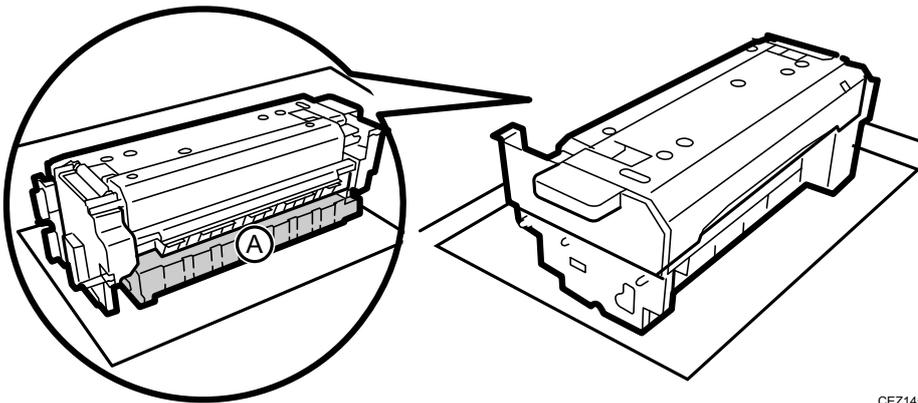
9. Lift the fusing unit out of the left drawer and place it on a flat clean surface.



CEZ221

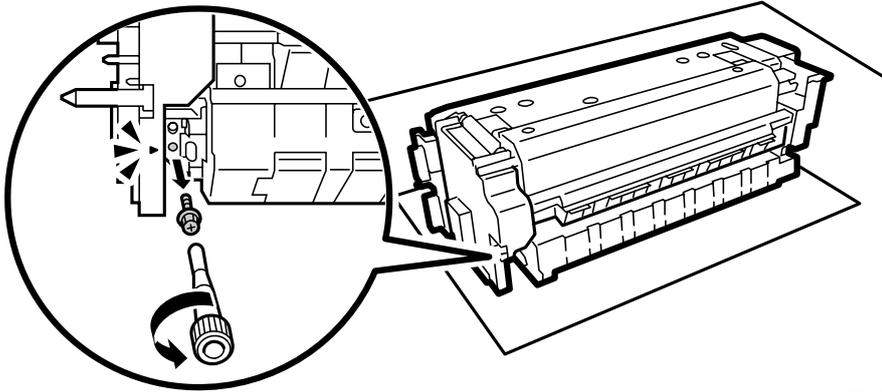
Note: Placing the fusing unit on a table makes it easier to replace the cleaning unit for fusing unit.

10. Place the fusing unit so the cleaning unit for fusing unit (A) faces you.



CEZ145

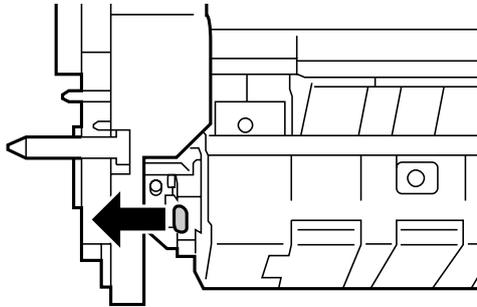
11. Remove the black screw.



CEZ146

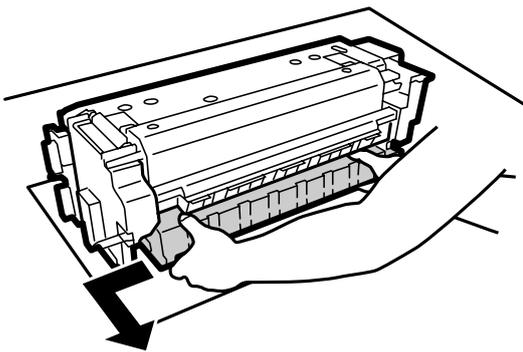
12. Move the plastic-capped lever to the left.

The cleaning unit for fusing unit will pop out slightly.



CEZ147

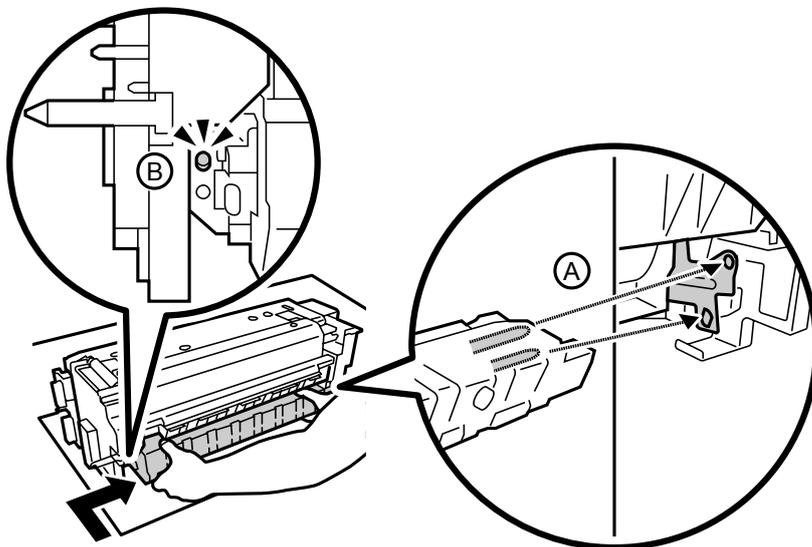
13. Push the unit slightly to the left to disconnect the shafts on the right, then pull it out of the fusing unit.



CEZ148

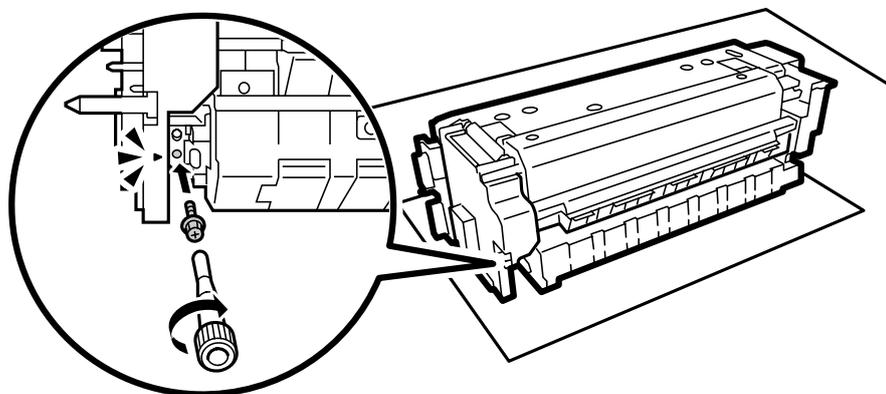
7.2 Installing the Fusing Unit and Cleaning Unit for Fusing Unit

1. Insert the two shafts into the holes on the right (A).



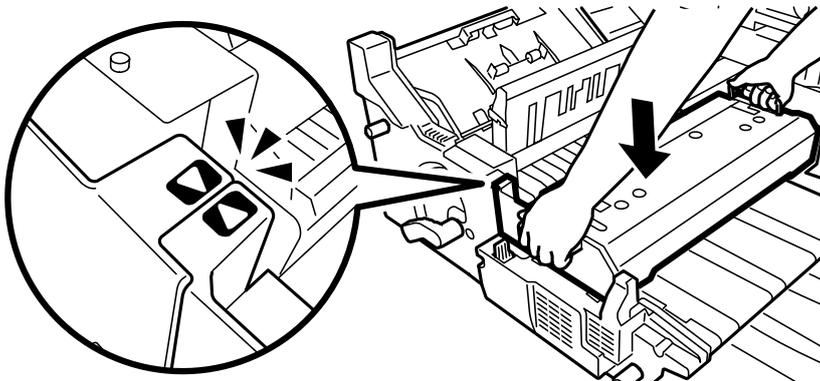
CEZ161

2. Lower the left end over the lever and onto the positioning pin.
3. Make sure that the left-end plate is flat around the positioning pin (B).
4. Reattach the black screw.



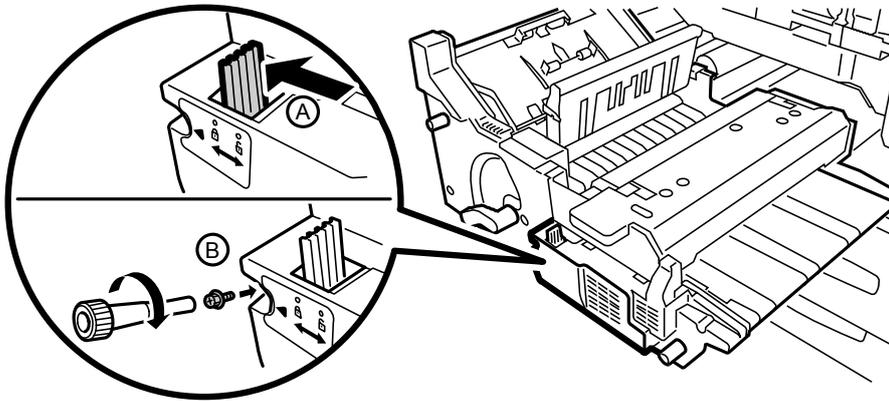
CEZ164

5. Place the fusing unit on the left drawer with the triangular markings aligned as shown.



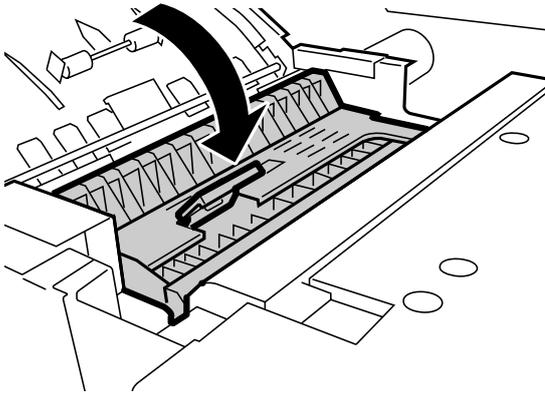
CEZ149

6. On the front of the left drawer, push the lock lever (A) to the left, and then reattach the black screw (B).



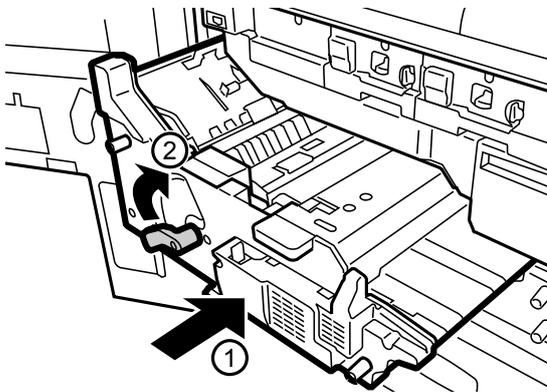
CEZ150

7. Lower the cover D3.



CEZ127

8. Push the left drawer slowly into the machine until it stops, and then pull up the lever C1.



CEZ128

Important:

- Never force the left drawer into the machine if you feel any resistance. If you feel resistance, stop pushing and pull the left drawer out again.
9. Reconnect the power cord to the power source.
 10. Turn the machine's main power switch to ON, close the left and right front covers, and then wait for the machine to warm up.
 11. Access the Adjustment Settings for Skilled Operators menu. (See p.18 "Accessing the Adjustment Settings for Skilled Operators".)
 12. Reset the replaceable parts counter for the replaced fusing unit or cleaning unit for fusing unit. (See p.20 "Resetting the Replaceable Parts Counter".)

8. Periodic Cleaning

What You Need

- Accessory hex screwdriver provided with the machine.
- A drop cloth, newspaper, or other paper to spread in front of the machine and to cover a nearby flat surface on which you can place the removed components.
- Clean, dry cleaning cloth.

WARNING

- To prevent electrical shock, turn off the color controller on the machine control panel, turn off the operation power switch and then the main power switch, and then disconnect the machine from the power supply before replacing any parts or cleaning the machine's interior.
- The fusing unit becomes extremely hot during operation; to avoid being burned, allow the machine to cool for at least 30 minutes before you remove or clean the fusing unit.
- The fusing unit is small and weighs approximately 17 kg (37 lb.) so it can be lifted and carried easily by one person.

Preparation:

Turn the machine off. (See p.14 "Power Off Sequence".)

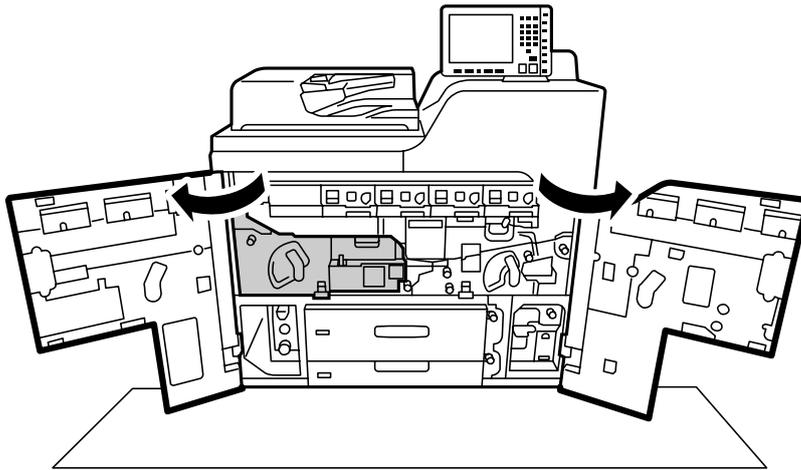
The following parts should be cleaned at regular intervals.

Part Name	Interval
Fusing belt stripper plate	300K
Pressure roller stripper plate	300K
Entrance guide plate	300K
Dust catcher	100K

8.1 Fusing Belt Stripper and Pressure Roller Stripper Plates

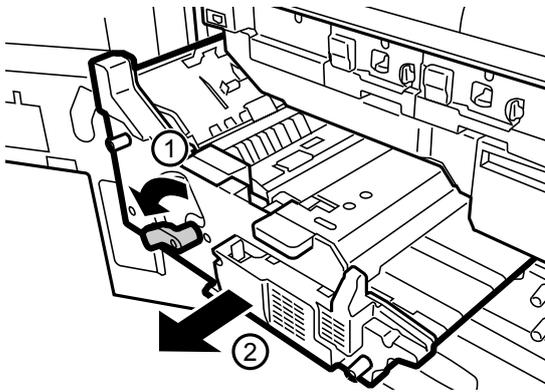
1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Open the left and right front covers.

The fusing belt stripper and pressure roller stripper plates are located on the left drawer unit.



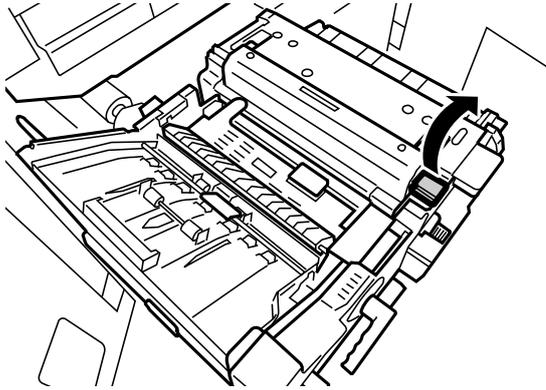
CEZ123

3. Pull down the lever C1, and then pull the left drawer out completely until it stops.



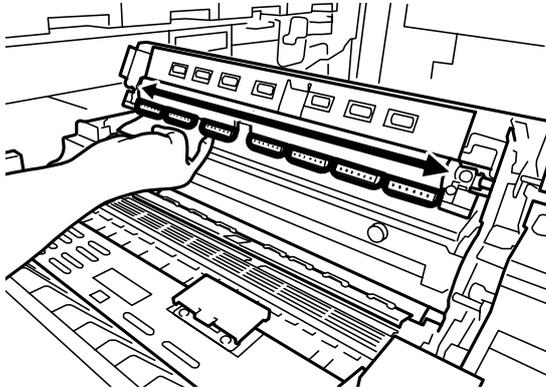
CEZ124

4. Open the cover D2 on top of the fusing unit.



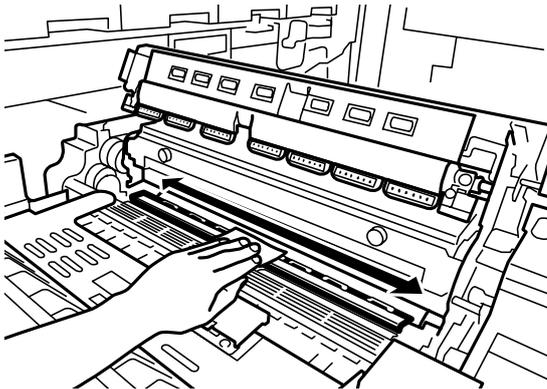
CEZ188

5. Use a dry cloth to clean the stripper plate on the fusing belt.



CEZ189

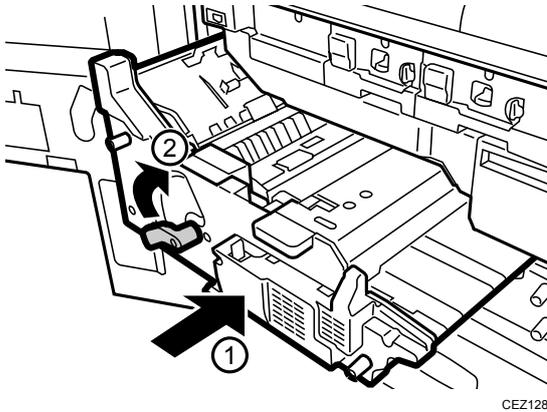
6. Use a dry cloth to clean the stripper plate on the pressure roller.



CEZ193

7. Close the cover D2.

8. Push the left drawer slowly into the machine until it stops, and then pull up the lever C1.



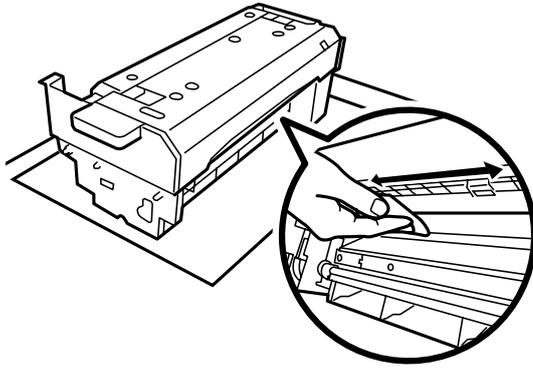
9. Reconnect the power cord to the power source.
10. Turn the machine's main power switch to ON, close the left and right front covers, and then wait for the machine to warm up.

8.2 Entrance Guide Plate

1. Remove the fusing unit from the machine.

For details about removing the fusing unit, see p.82 "Removing the Fusing Unit and the Cleaning Unit for Fusing Unit".

2. Use a dry cloth to clean the entrance guide plate.



CEZ194

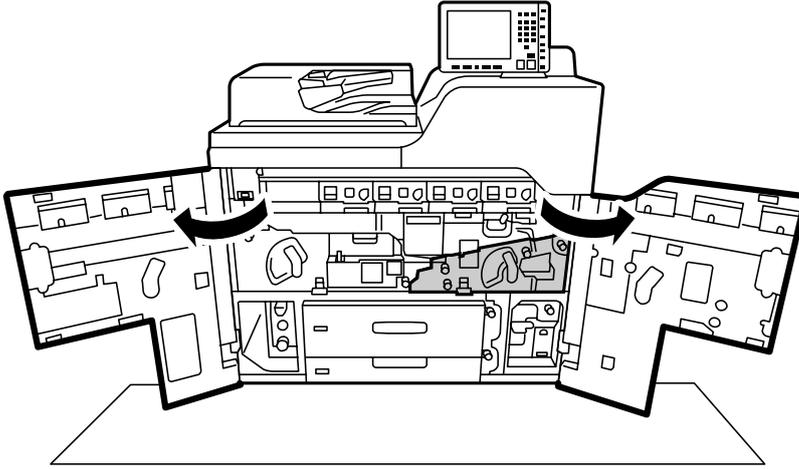
3. Reinstall the fusing unit.

For details about installing the fusing unit, see p.86 "Installing the Fusing Unit and Cleaning Unit for Fusing Unit".

8.3 Dust Catcher

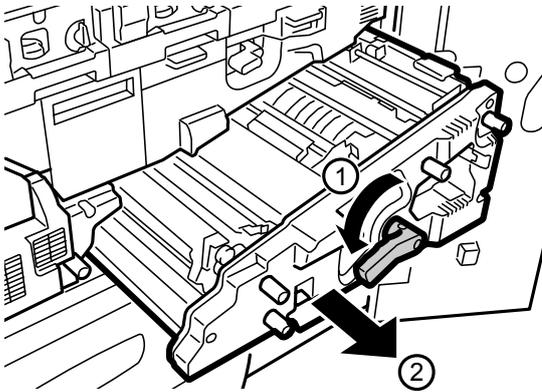
8.3.1 Removing and Cleaning the Dust Catcher

1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Open the left and right front covers.
The dust catcher is located on the right drawer.



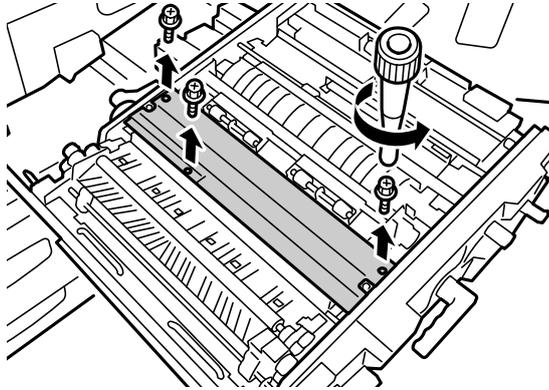
CEZ120

3. Pull down the lever B5 and pull out the right drawer until it stops.



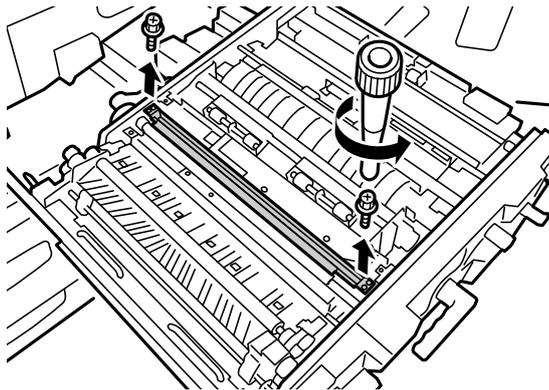
CEZ121

4. Remove the three black screws on the cover plate, and then remove the cover plate.



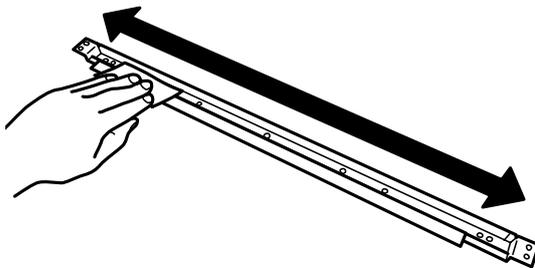
CEZ195

5. Remove the two black screws on the dust catcher, and then remove the dust catcher.



CEZ197

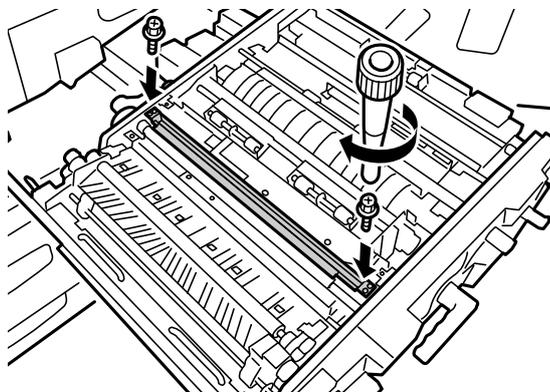
6. Empty the dust catcher into a dust bin.
7. Use a clean dry cloth to remove any dust remaining in the dust catcher.



CEZ199

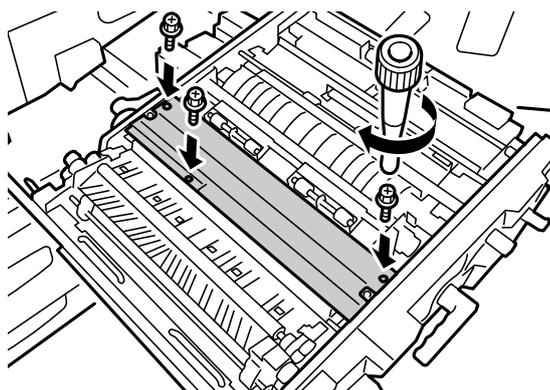
8.3.2 Reinstalling the Dust Catcher

1. Reattach the dust catcher with the two black screws.



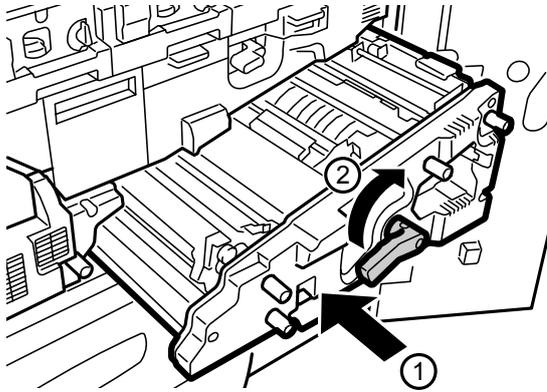
CEZ198

2. Reattach the cover plate with the three black screws.



CEZ196

3. Push the right drawer into the main unit until it stops, and then pull up the lever B5.



CEZ122

4. Reconnect the power cord to the power source.
5. Turn the machine's main power switch to ON, close the left and right front covers, and then wait for the machine to warm up.

9. Roller and Sensor Inspection and Cleaning

What You Need

- Accessory hex screwdriver provided with the machine.
- A drop cloth, newspaper, or other paper to spread in front of the machine and to cover a nearby flat surface on which you can place the removed components.
- Clean, dry cleaning cloth.
- Blower brush.

WARNING

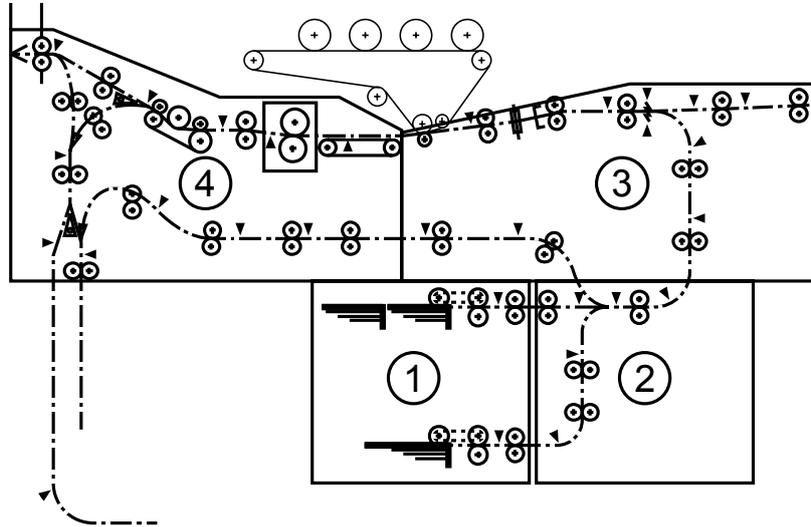
- **To prevent electrical shock, turn off the color controller on the machine control panel, turn off the operation power switch and then the main power switch, and then disconnect the machine from the power supply before replacing any parts or cleaning the machine's interior.**
- **The fusing unit becomes extremely hot during operation; to avoid being burned, allow the machine to cool for at least 30 minutes before you remove or clean the fusing unit.**

Preparation:

Turn the machine off. (See p.14 "Power Off Sequence".)

9.1 Overview

This section describes how to clean the rollers and sensors in the paper path. Four units comprise the paper path.



CEZ226

1	Paper bank	Paper supply, Tray 1, Tray 2
2	Vertical transport unit	Relays paper to right drawer
3	Right drawer	Paper registration, transfer unit, 2nd half of the duplex path
4	Left drawer	Paper transport belt, fusing unit, paper cooling unit, 1st half of the duplex path

9.2 Inspection and Cleaning

9.2.1 Before You Begin

To clean the rollers and sensors, follow the instructions below:

Roller Cleaning

- Clean the rollers with a dry cloth.
- Try to avoid touching the surfaces of the rollers with bare hands.

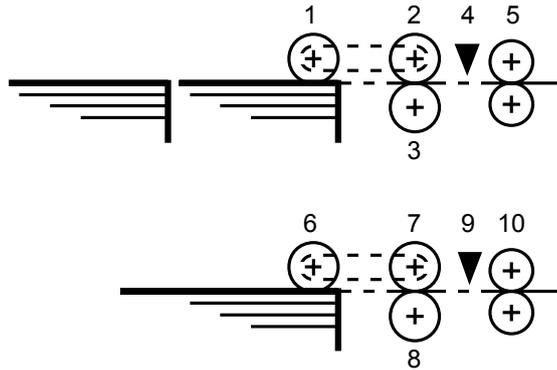
Sensor Cleaning

- Clean the sensors with a blower brush. Do not use cloth or tissue paper.
- Most of the sensors are below holes in plates so you may not be able to see them.
- Insert the tip of the blower brush into the hole and squeeze it to blow any paper dust off the sensor.

9.2.2 Tray 1, Tray 2

⚠ CAUTION

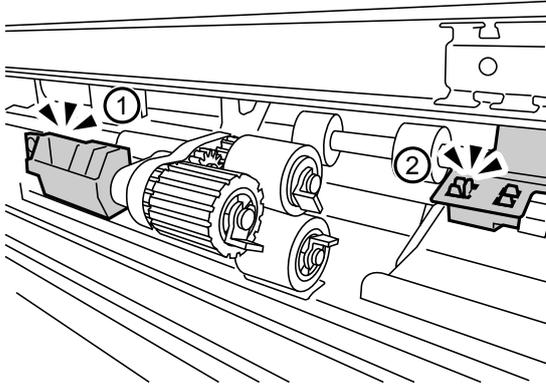
- Make sure that the main machine is switched off and that its power cord is disconnected before doing the following procedures.



CEZ227

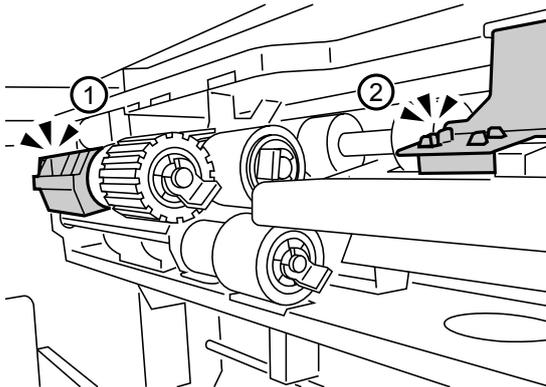
Tray 1		Tray 2	
1	1st pickup roller	6	2nd pickup roller
2	1st paper feed roller	7	2nd paper feed roller
3	1st separation roller	8	2nd separation roller
4	1st paper feed sensor	9	2nd paper feed sensor
5	1st grip rollers	10	2nd grip rollers

1. Follow the procedure in "Main Machine Roller Replacement" to remove the inner tray of Tray 1. This will allow you to see the rollers of Tray 2 and Tray 1.
2. Clean the rollers with a dry cloth.
3. Use the blower brush on the 2nd paper end sensor (1) and 2nd paper feed sensor (2).



CEZ231

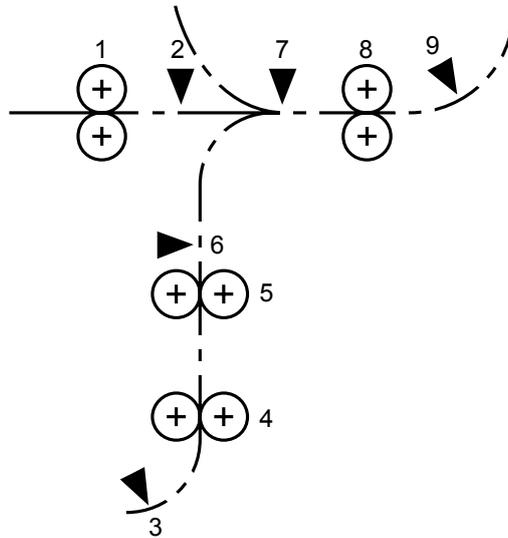
4. Use the blower brush on the 1st paper end sensor (1) and 1st paper feed sensor (2).



CEZ232

5. Push the tray (Tray 1) and bottom tray (Tray 2) back into the machine.
6. Close the left and right front covers.

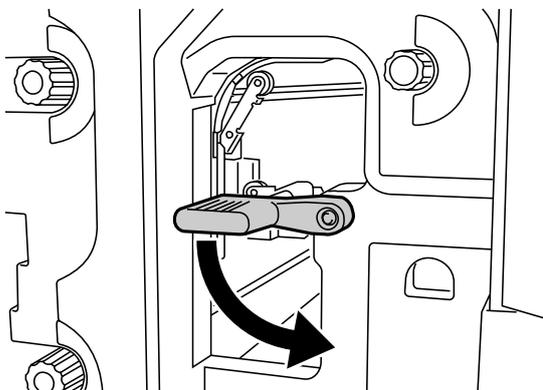
9.2.3 Vertical Transport Unit



CEZ228

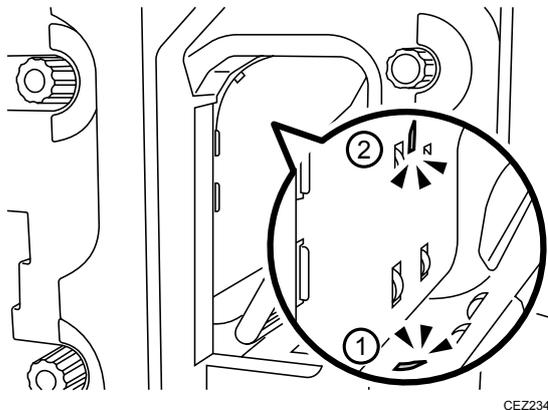
1	Horizontal transport rollers	6	Vertical transport sensor
2	1st transport sensor	7	Bank exit sensor
3	2nd transport sensor	8	Bank exit rollers
4	Lower transport rollers	9	Main relay sensor 1
5	Upper transport rollers		

1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Open the left and right front covers.
3. Pull down the lever A1 to release the lower and upper transport plates.



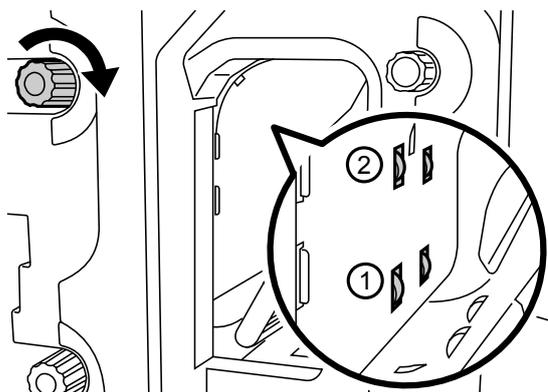
CEZ233

4. Use the blower brush on the
 - (1) 2nd transport sensor
 - (2) Vertical transport sensor



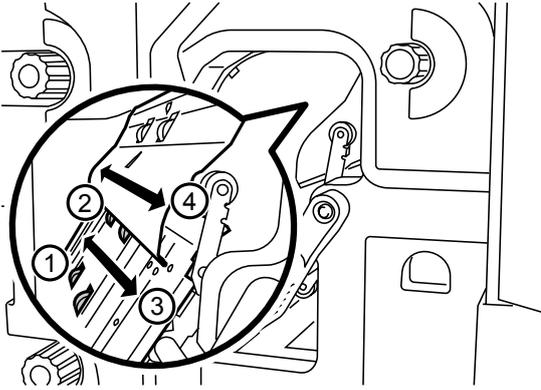
CEZ234

5. Turn the knob as you hold the cloth against the rollers.
6. Use a dry cloth on the
 - (1) Lower transport drive rollers
 - (2) Upper transport drive rollers



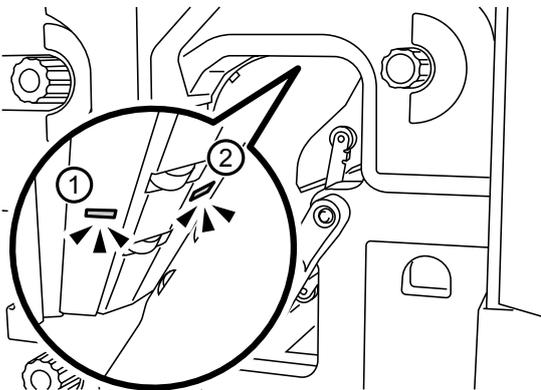
CEZ235

7. Use a dry cloth on the
- (1) Lower transport idle rollers
 - (2) Upper transport idle rollers
 - (3) 2nd vertical plate
 - (4) 1st vertical plate



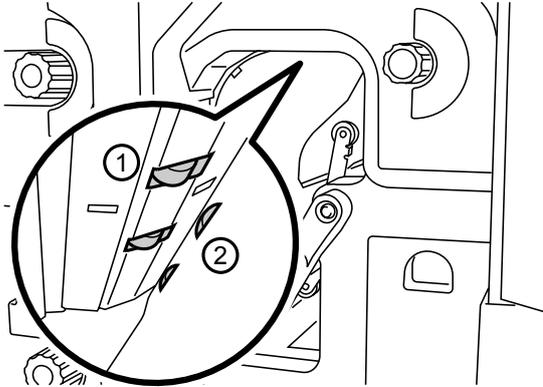
CEZ236

8. Use the blower brush on the
- (1) Bank exit sensor
 - (2) Main relay sensor 1



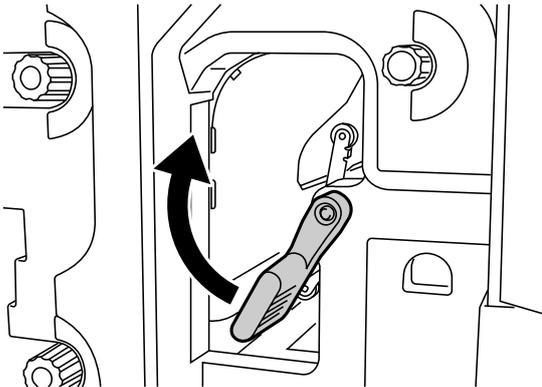
CEZ237

9. Use a dry cloth on the
- (1) Bank exit drive rollers
 - (2) Bank exit idle rollers



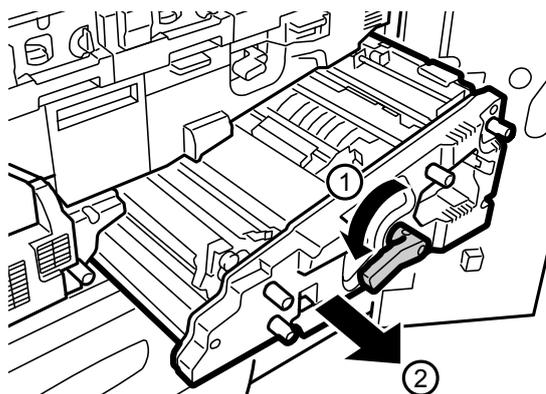
CEZ238

10. Pull up the lever A1 to close the lower and upper transport plates.



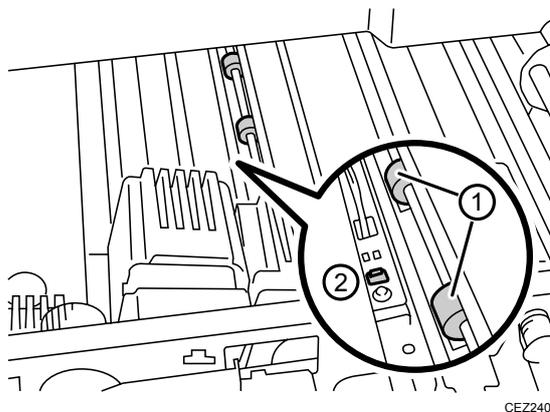
CEZ239

11. Pull down the lever B5 and pull out the right drawer until it stops.

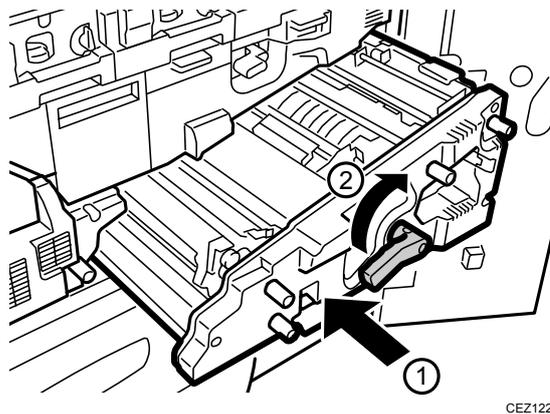


CEZ121

12. Use a dry cloth on the horizontal transport rollers (1).
13. Use the blower brush on the 1st transport sensor (2).

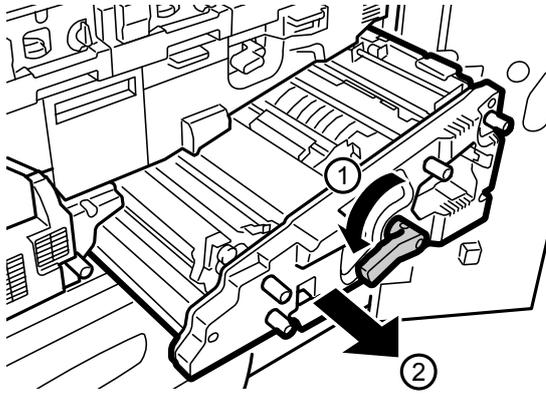


14. Push the right drawer into the main unit until it stops, and then pull up the lever B5.



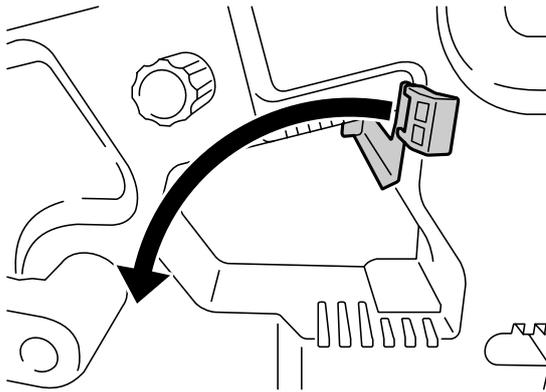
15. Close the left and right front covers.

1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Open the left and right front covers.
3. Pull down the lever B5 and pull out the right drawer until it stops.



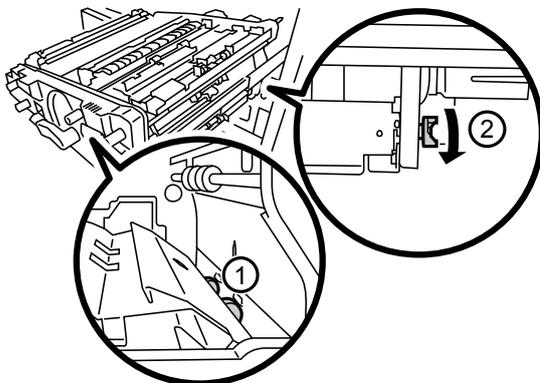
CEZ121

4. On the right side of the drawer, pull down the lever to release the plates.



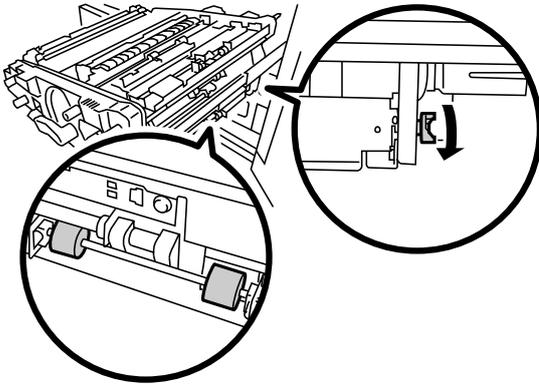
CEZ263

5. Hold the dry cloth against the main relay drive rollers (1).
6. On the right lower corner of the drawer, slowly rotate the roller shaft (2).



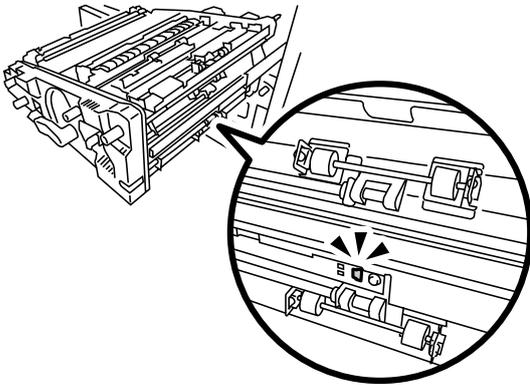
CEZ265

7. Hold a dry cloth against the main relay idle rollers.
8. Rotate the end of the roller.



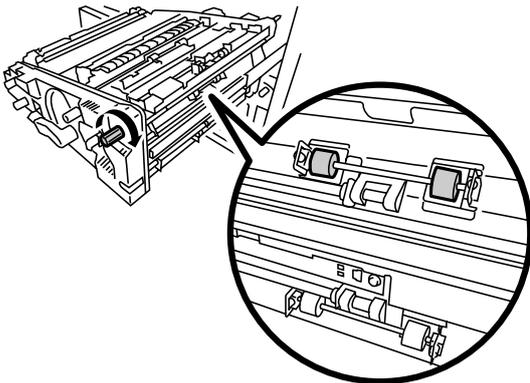
CEZ266

9. Use the blower brush on the main relay sensor 2.



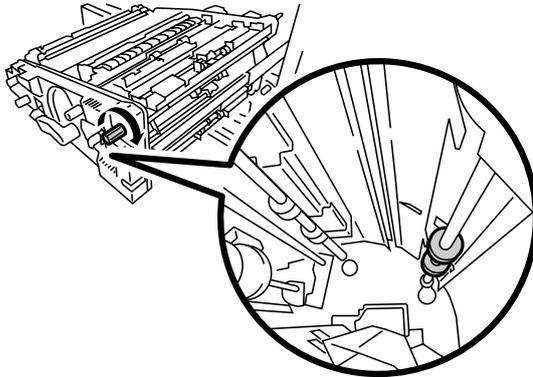
CEZ267

10. While turning the knob B3, use a dry cloth on the registration entrance idle rollers.



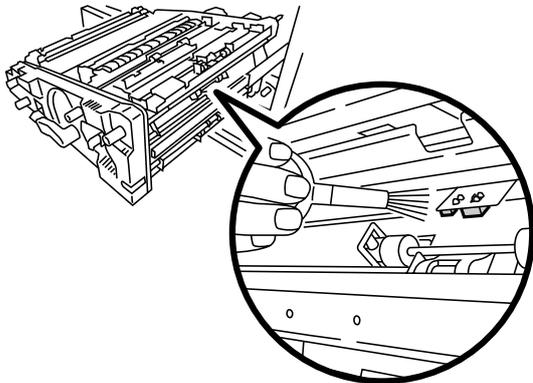
CEZ270

11. On the inside of the right drawer, hold a dry cloth against the registration entrance drive rollers while turning the knob B3.



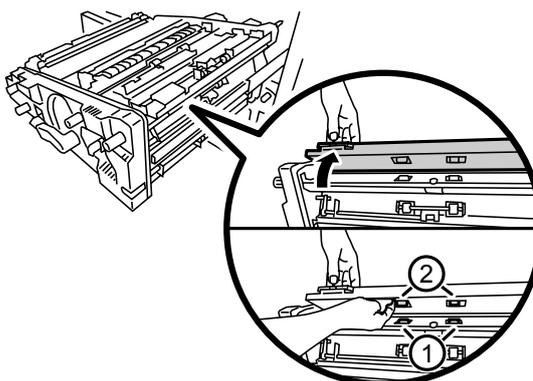
CEZ272

12. Use the blower bush on the main relay sensor 3 on the right side of the drawer above the registration entrance idle rollers cleaned in Step 11.



CEZ271

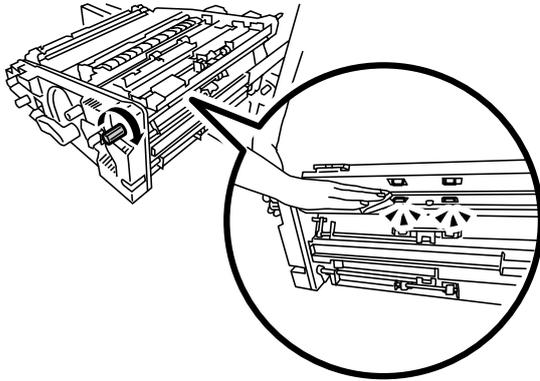
13. Open the plate on the right top of the drawer so you can see the LCT relay drive rollers (1) and LCT relay idle rollers (2).



CEZ275

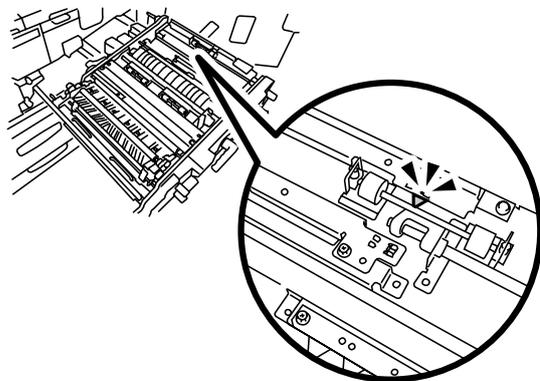
14. Use a dry cloth on the Idle rollers (2).
15. Turn the knob B3.

16. Hold a dry cloth between the plates and the rollers to clean the drive rollers as they rotate.



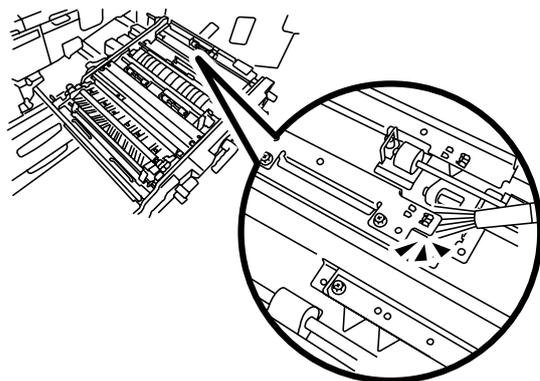
CEZ276

17. Use the blower brush on the LCT relay sensor 1.



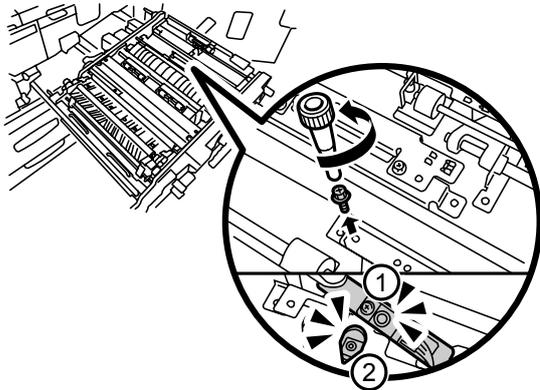
CEZ277

18. Use the blower brush on the LCT relay sensor 2.



CEZ280

19. Remove the black screw on the double-feed sensor bracket and turn it over so you can see the top sensor.

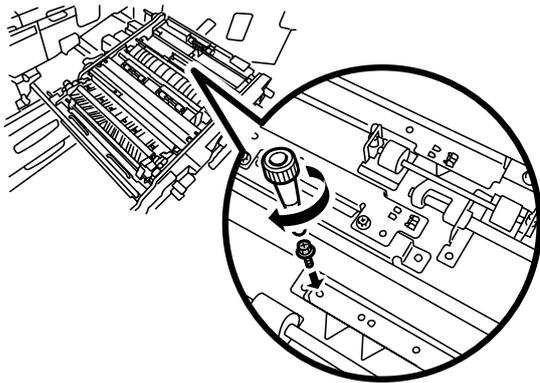


CEZ284

20. Use the blower brush on the double-feed sensor (receptor) (1).

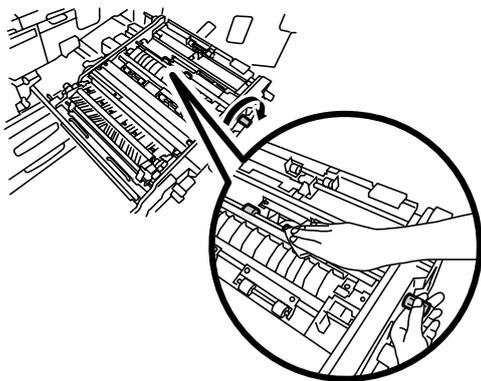
21. Use the blower brush on the double-feed sensor (emitter) (2).

22. Reattach the double-feed sensor with the black screw.



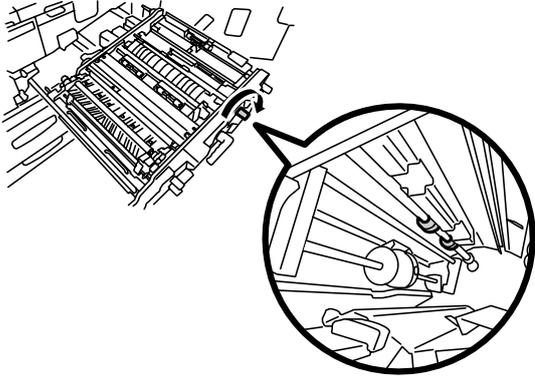
CEZ285

23. Turn the knob B4 on the front while using a dry cloth on the registration timing idle rollers.



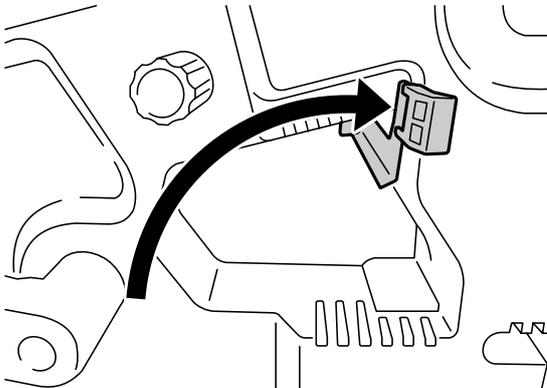
CEZ286

24. Turn the knob B4 on the inside of the right drawer while using a dry cloth on the registration timing drive rollers.



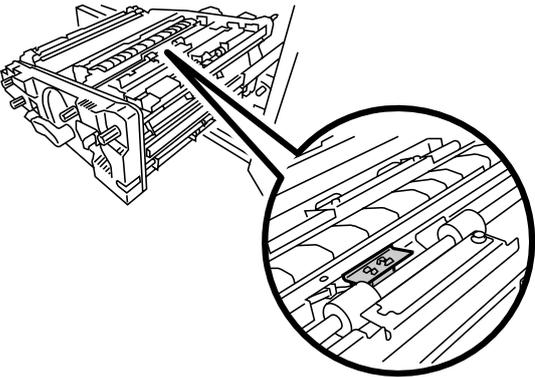
CEZ287

25. Pull up the lever to close the plates.



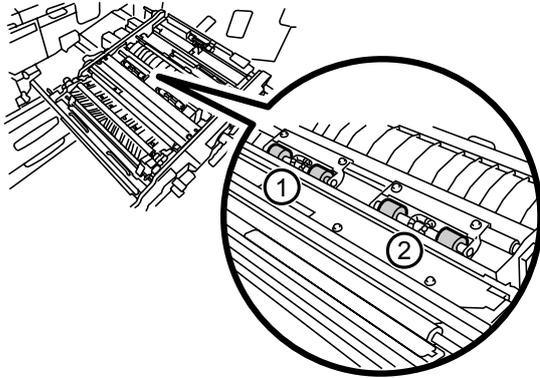
CEZ264

26. Use the blower brush on the registration timing sensor.



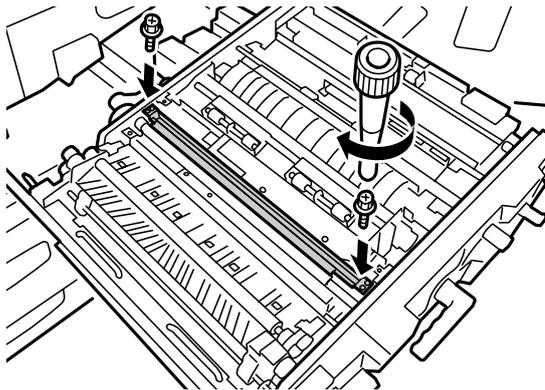
CEZ288

27. Use a dry cloth on the
- (1) Shift idle rollers (rear)
 - (2) Shift idle rollers (front)



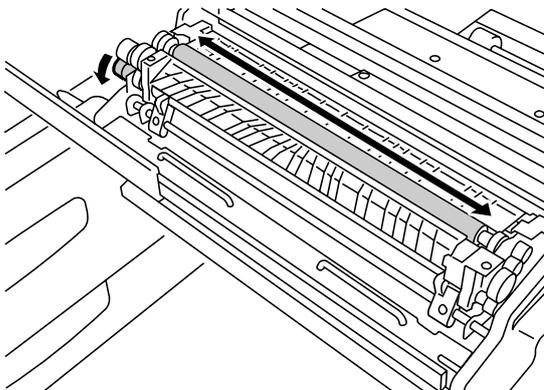
CEZ291

28. Remove the dust catcher and clean it. For details, see p.94 "Removing and Cleaning the Dust Catcher".
29. Reattach the dust catcher with the two black screws.



CEZ198

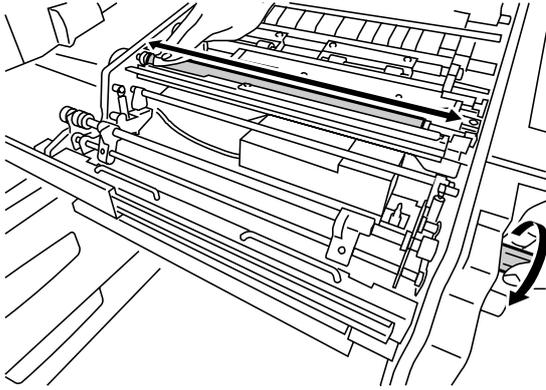
30. While slowly turning the roller gear at the rear, clean the paper transfer roller with a dry cloth.



CEZ295

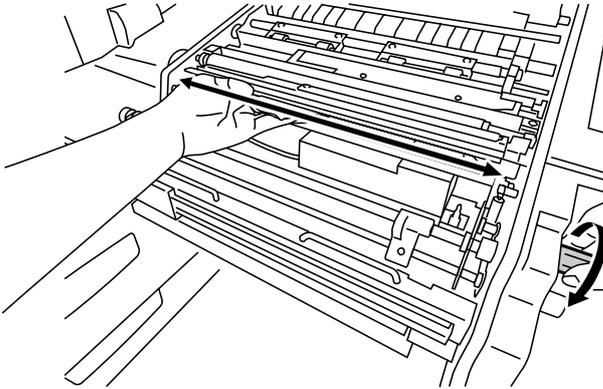
31. Remove the transfer unit. For details, see p.76 "Removing the Transfer Unit".

32. Turn the knob B6 while using a dry cloth on the transfer timing idle roller.



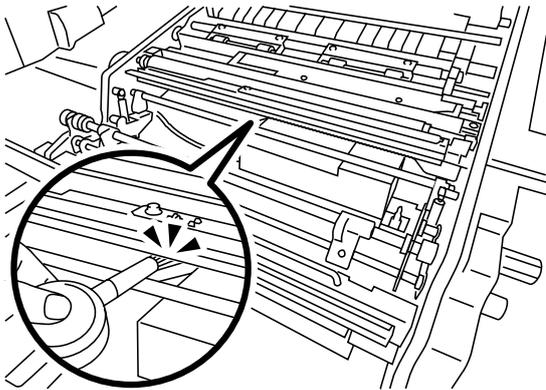
CEZ299

33. Turn the knob B6 while using a dry cloth on the transfer timing drive roller.



CEZ300

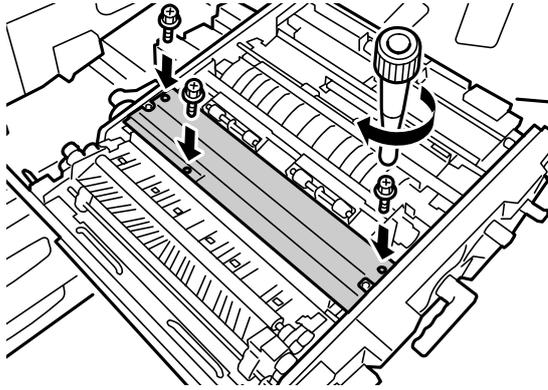
34. Use the blower brush on the transfer timing sensor.



CEZ301

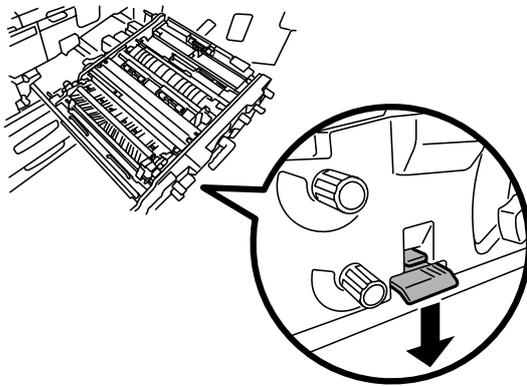
35. Reattach the transfer unit. For details, see p.78 "Installing the Transfer Unit".

36. Reattach the cover plate with the three black screws.



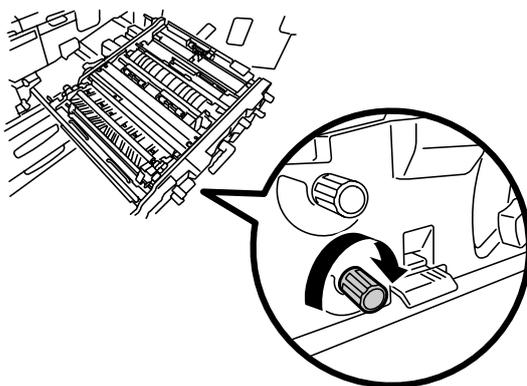
CEZ196

37. Lower the duplex transport path plate (Z4) on the front of the right drawer.



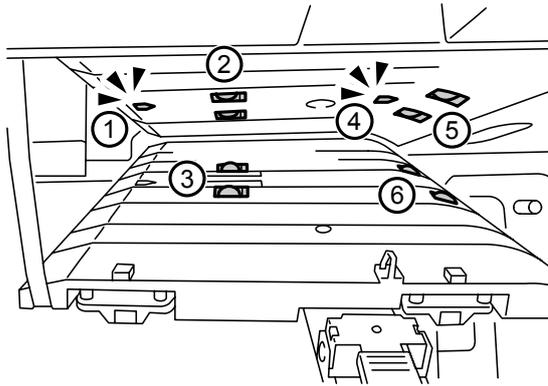
CEZ302

38. Rotate the knob Z2.



CEZ303

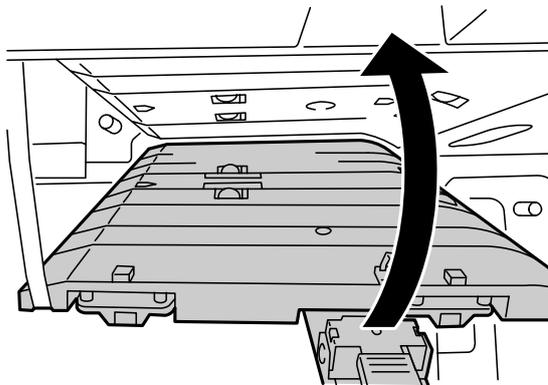
39. Clean the rollers (as you rotate the knob) and sensors under the right drawer.



CEZ304

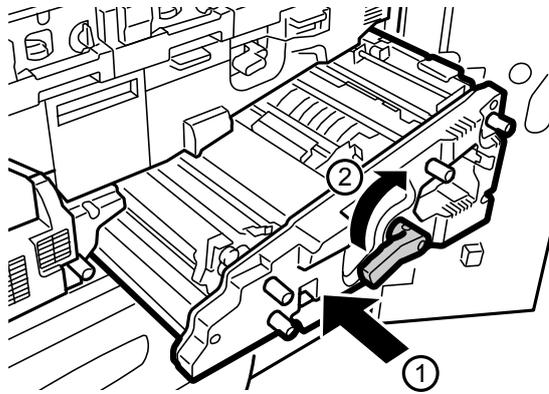
1	Duplex transport sensor 4	Blower brush
2	Duplex transport drive rollers 5	Dry cloth
3	Duplex transport idle rollers 5	Dry cloth
4	Duplex transport sensor 5	Blower brush
5	Duplex transport drive rollers 6	Dry cloth
6	Duplex transport idle rollers 6	Dry cloth

40. Close the duplex transport path plate (Z4).



CEZ305

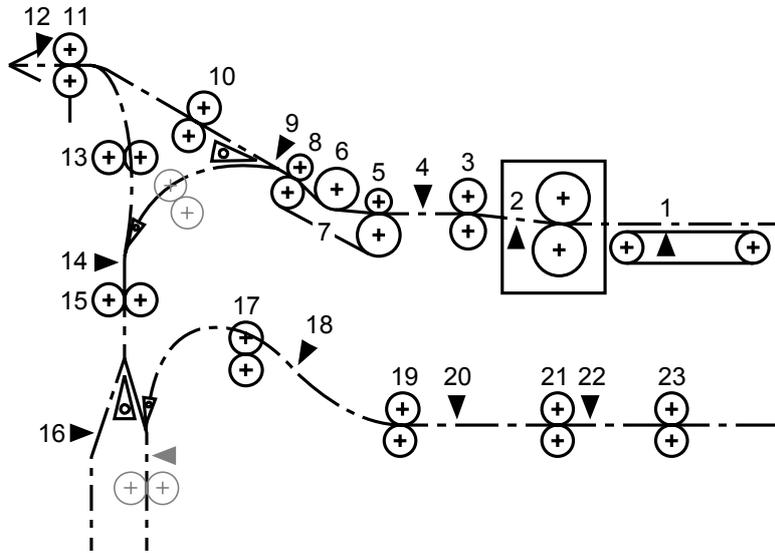
41. Push the right drawer into the main unit until it stops, and then pull up the lever B5.



CEZ122

42. Close the left and right front covers.

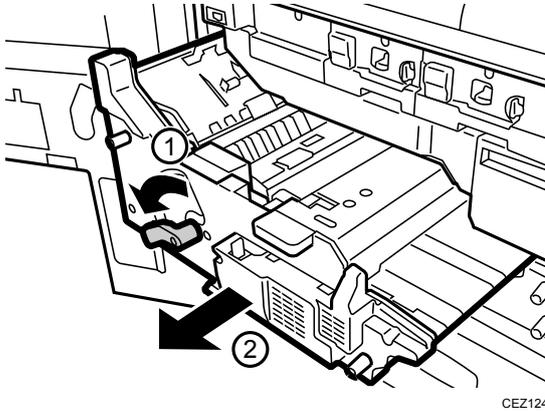
9.2.5 Left Drawer



CEZ229

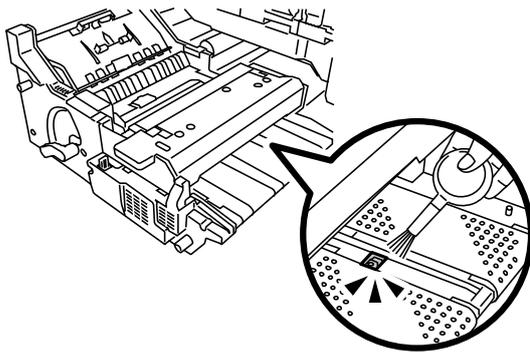
1	Paper transport belt sensor	13	Invert exit rollers 2
2	Fusing exit sensor	14	Exit relay sensor
3	Exit unit entrance rollers	15	Invert exit rollers 1
4	Cooling unit entrance sensor	16	Purge relay sensor
5	Cooling unit entrance rollers	17	Duplex transport rollers 1
6	Cooling pipe roller	18	Duplex transport sensor 1
7	Cooling belt	19	Duplex transport rollers 2
8	Cooling belt idle rollers	20	Duplex transport sensor 2
9	Exit JG sensor	21	Duplex transport rollers 3
10	Exit relay rollers	22	Duplex transport sensor 3
11	Exit rollers	23	Duplex transport rollers 4
12	Exit sensor		

1. Make sure that the system is turned off and the machine power cord is disconnected from the power source.
2. Open the left and right front covers.
3. Lower the lever C1, and then pull the left drawer out completely until it stops.



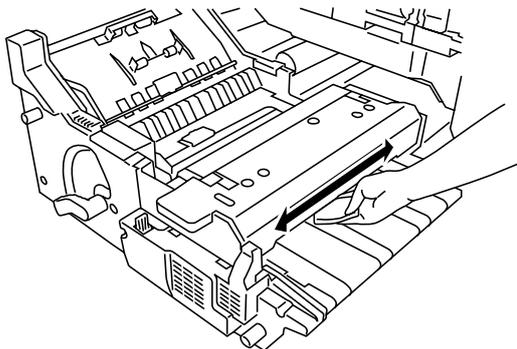
CEZ124

4. Use the blower brush on the paper transport belt sensor.



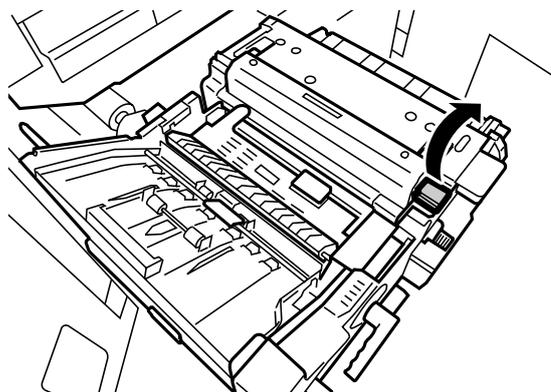
CEZ241

5. Use a dry cloth on the fusing unit entrance plates.



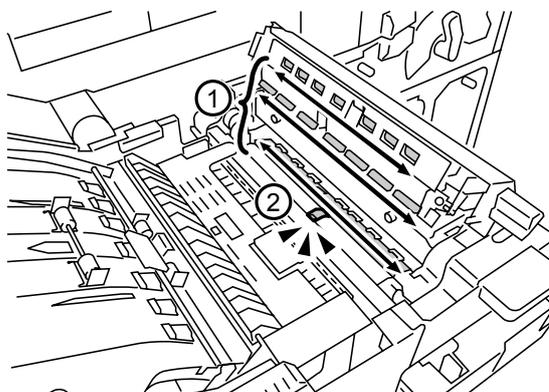
CEZ245

6. Open the cover D2 on top of the fusing unit.



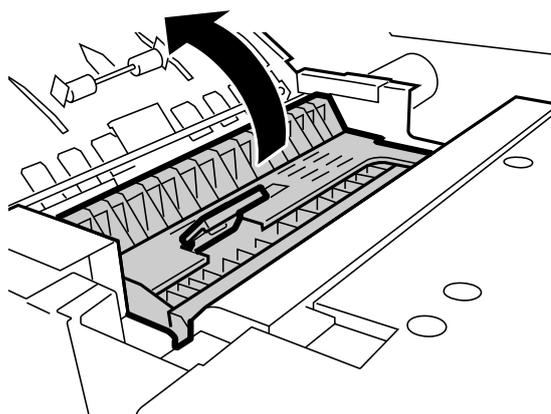
CEZ188

7. Use a dry cloth on the rollers, strippers, and plates (1).
8. Use the blower brush on the fusing exit sensor (2).



CEZ246

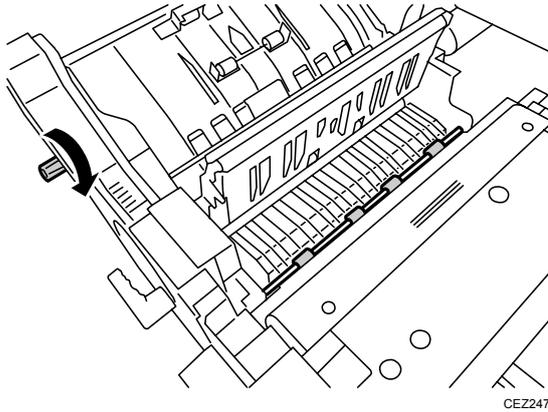
9. Close the cover D2.
10. Pull up and open the cover D3.



CEZ126

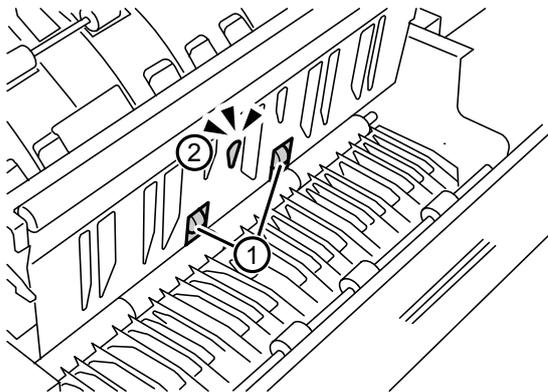
11. Turn the knob D1.

12. Use a dry cloth on the exit unit entrance rollers.



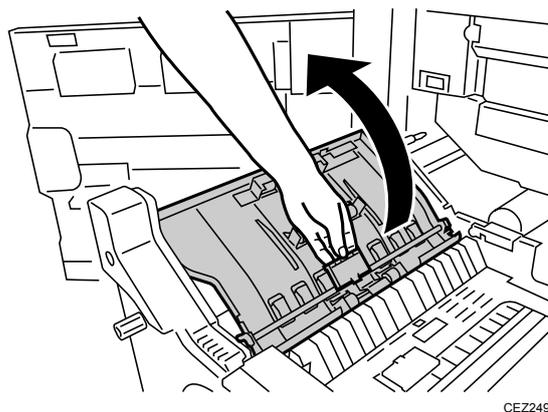
13. Use a dry cloth on the cooling unit entrance rollers (1).

14. Use the blower brush on the cooling unit entrance sensor (2).



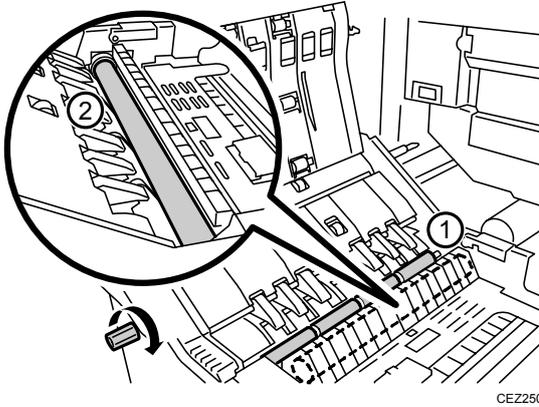
15. Close the cover D3.

16. Pull up and open the cover D4.



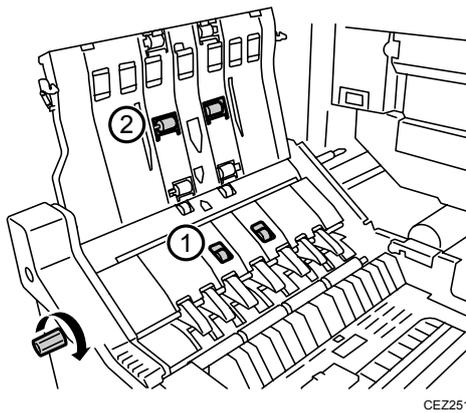
17. Turn the knob D1 while using a dry cloth on the:

- (1) Cooling belt
- (2) Cooling pipe roller



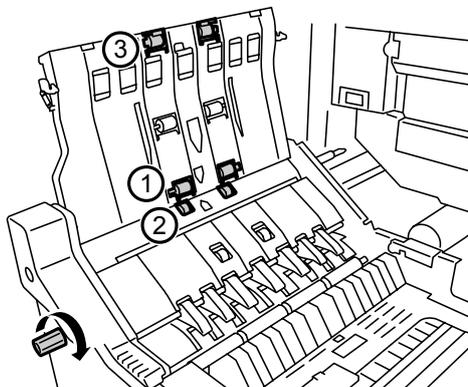
18. While turning the knob D1, use a dry cloth on the exit relay drive rollers (1).

19. Use a dry cloth on the exit relay idle rollers (2).



20. Turn the knob D1 while using a dry cloth on the:

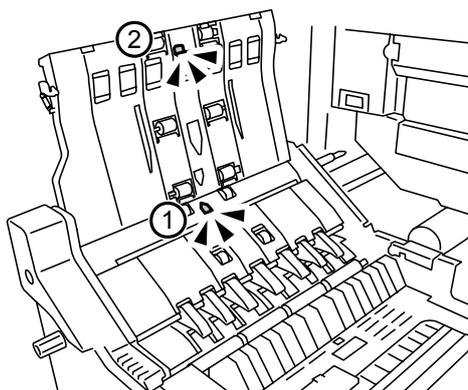
- (1) Exit idle roller
- (2) Exit drive roller
- (3) Cooling belt idle rollers



CEZ252

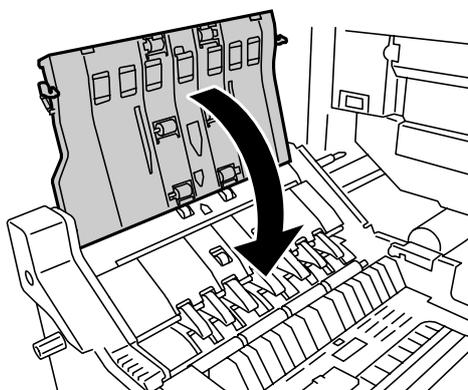
21. Use the blower brush on the:

- (1) Exit sensor
- (2) Exit JG sensor



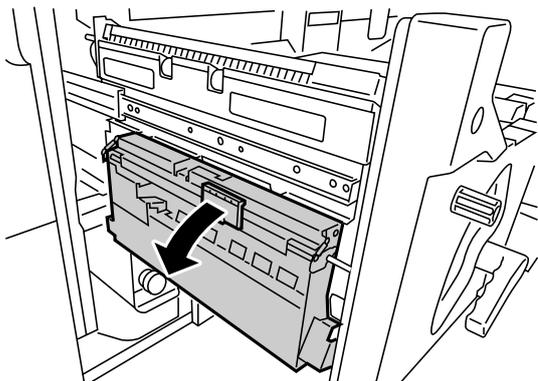
CEZ253

22. Pull down and close cover D4.



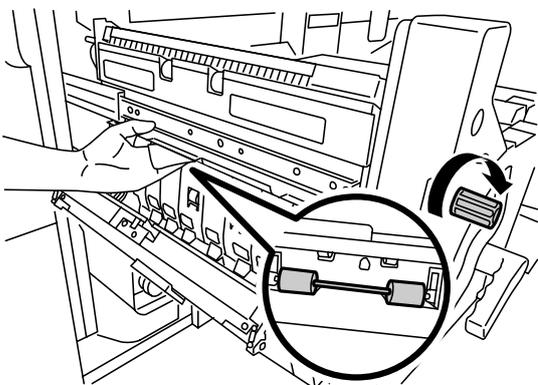
CEZ254

23. Pull down and open the cover D5.



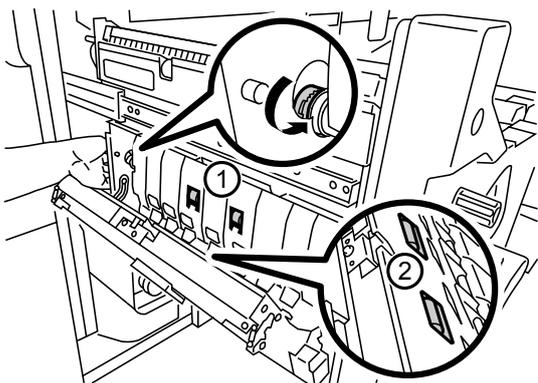
CEZ255

24. Turn the knob D1 while using a dry cloth on the invert exit rollers 2.



CEZ257

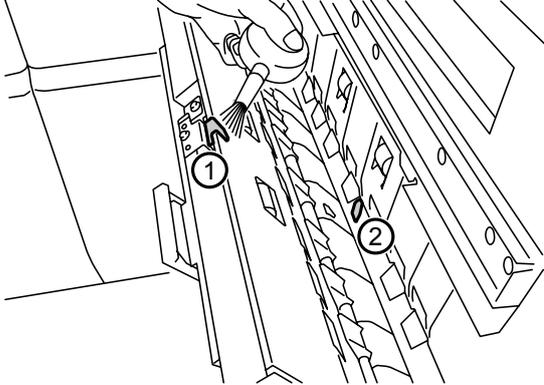
25. Turn the gear in the back while using a dry cloth on the:
(1) Invert exit drive rollers 1 (as you rotate the gear)
(2) Invert exit idle rollers 1



CEZ258

26. Use the blower brush on the:

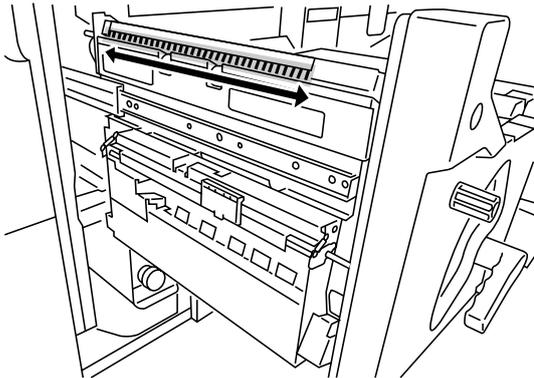
- (1) Exit relay sensor
- (2) Purge relay sensor



CEZ260

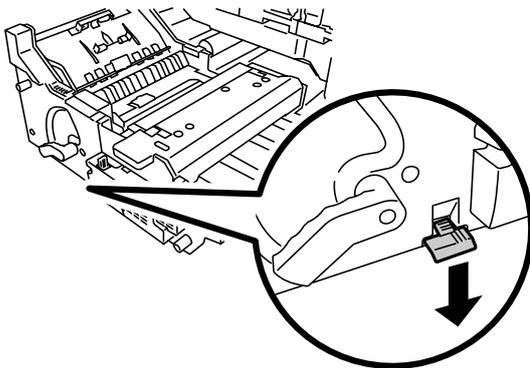
27. Pull up and close the cover D5.

28. Use a hand vacuum cleaner to clean the anti-static brush near the exit rollers.



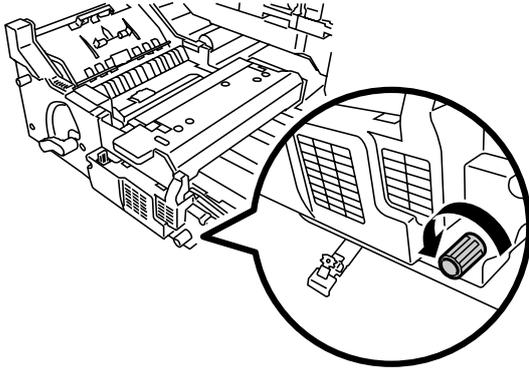
CEZ256

29. Release and pull down duplex transport path plate (Z3).



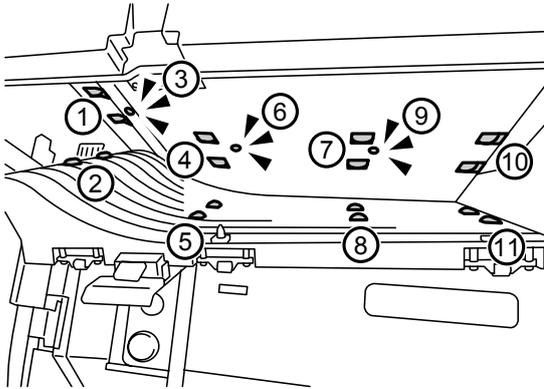
CEZ242

30. Turn the knob Z1.



CEZ243

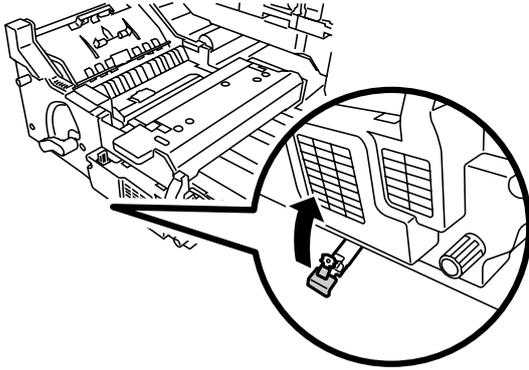
31. Under the left drawer, clean the rollers (as you rotate the knob) and sensors.



CEZ261

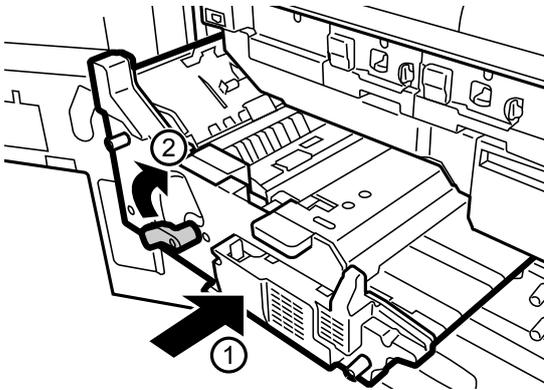
1	Duplex transport drive roller 1	Dry cloth
2	Duplex transport idle roller 1	Dry cloth
3	Duplex transport sensor 1	Blower brush
4	Duplex transport drive roller 2	Dry cloth
5	Duplex transport idle roller 2	Dry cloth
6	Duplex transport sensor 2	Blower brush
7	Duplex transport drive roller 3	Dry cloth
8	Duplex transport idle roller 3	Dry cloth
9	Duplex transport sensor 3	Blower brush
10	Duplex transport drive roller 4	Dry cloth
11	Duplex transport idle roller 4	Dry cloth

32. Close the duplex transport path plate (Z3).



CEZ244

33. Push the left drawer slowly into the machine until it stops, and then pull up the lever C1.

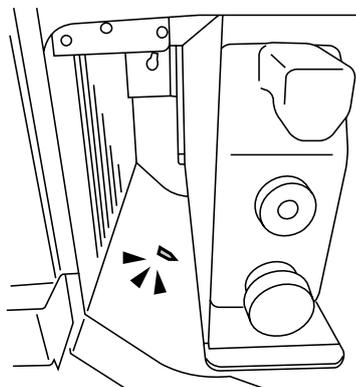


CEZ128

34. Close the left and right front covers.

9.2.6 Purged Paper Sensor

1. Open the left front cover.
2. If there is any paper in the purge tray, remove it.
3. Use the blower brush on the purged paper sensor



CEZ262

4. Close the left front cover.

