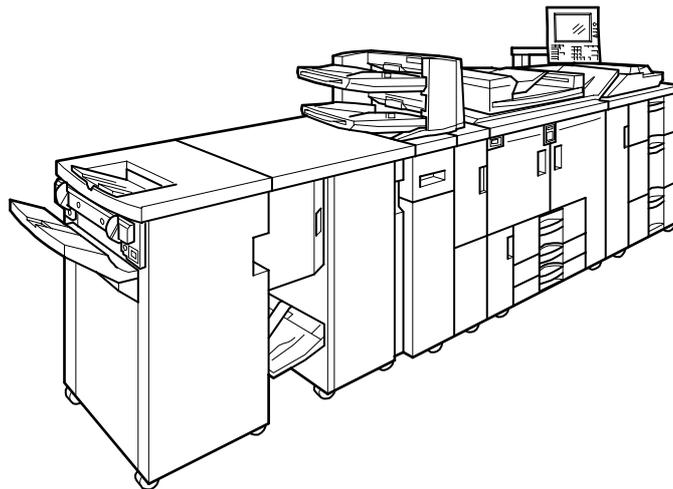


Replacement Guide: TCRU

Model Name:

8090/8110/8135
DSm790/DSm7110/DSm7135
LD190/LD1110/LD1135
Aficio™ MP 9000/1100/1350



Revised October 2007

CONVENTIONS USED IN THIS MANUAL

CAUTIONS, NOTES, ETC.

The following headings provide important information that you must read:

 WARNING
Failure to follow the information could result in serious injury or death.

 CAUTION
Follow the information to ensure safe operation and avoid minor injuries.

Important:

- Follow the information to avoid misfeeds and loss of data, and to prevent damage to the machine and originals.
- The manufacturer shall not be responsible for any damage or expense that might result from use of other than genuine parts with this machine.
- 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.

NOTE: This information provides extra information about machine maintenance.

Trademark:

- Acrobat® is a registered trademark of Acrobat Systems Incorporated.

GENERAL SAFETY INSTRUCTIONS

Switches and 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
	OFF
	Press ON/Press OFF
	STANDBY

Power Plug and Power Cord

1. Always make sure that the power plug has been inserted completely into the wall outlet. A partially inserted plug could lead to heat generation (due to a power surge caused by high resistance) and cause a fire or 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 which could cause a 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 personal 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 could cause a 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 with the ground wire on the plug.
7. Connect the power cord directly into the wall outlet. Never use an extension cord.
8. When you disconnect the power plug from the wall outlet, always pull on the plug, not the cable.

 **WARNING**

- *Protect the machine from dampness or wet weather, such as rain and snow.*
- *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).*
- *Do not allow paper clips, staples, or other small metallic objects to fall inside the machine.*
- *Keep toner (used or unused) and toner containers out of reach of children.*
- *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.*
- *The inside of this machine gets very hot. Do not touch the parts with a label indicating the "hot surface". Otherwise, an injury might occur.*
- *The fusing section of this machine gets very hot. Caution should be taken when removing misfed paper.*
- *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.*
- *Do not use aluminum foil, carbon paper, or similar conductive paper to avoid a fire or machine failure.*
- *If you use the machine in a confined space, make sure there is a continuous air turnover.*
- *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, developer, 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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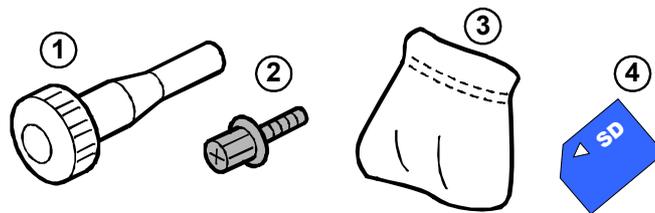
1. BEFORE YOU BEGIN...

This manual is for operators who have received training in the procedures described in this manual.

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

WHAT YOU NEED

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



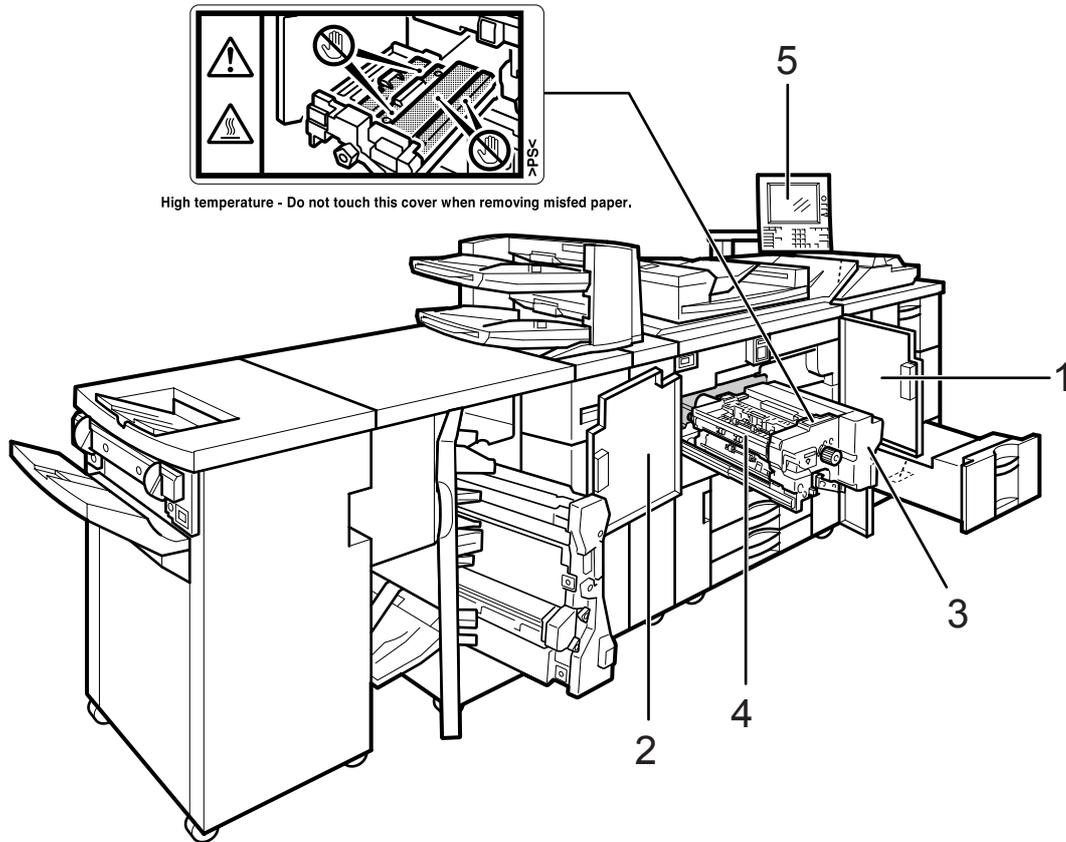
- ① Accessory hex driver (1)
- ② Black hex screws
- ③ Drum setting powder pad applicator (1)
- ④ TCRU SD Card

You will need the following items:

- Accessory hex driver ① (provided). Needed to remove the black hex screws ② from the machine. The black screws in the machine are the only screws that should be removed.
- Drum setting powder pad applicator ③ (provided). Needed to apply a thin coated of powder on the drum.
- The TCRU SD card ④ launches the dedicated display for TCRU, including the settings that are required after unit replacement and TCRU operation.
- Newspaper or other paper. Needed to cover the drum while the Drum Unit is out of the machine, and to cover the work table surface and prevent toner spillage while components are out of the machine.

Important: The accessory hex driver and drum setting powder pad are provided in the kit with this machine. Keep this kit and TCRU SD card in a safe place where you can find it later. If the kit or TCRU card is not available, call for service.

NAMES OF COMPONENTS



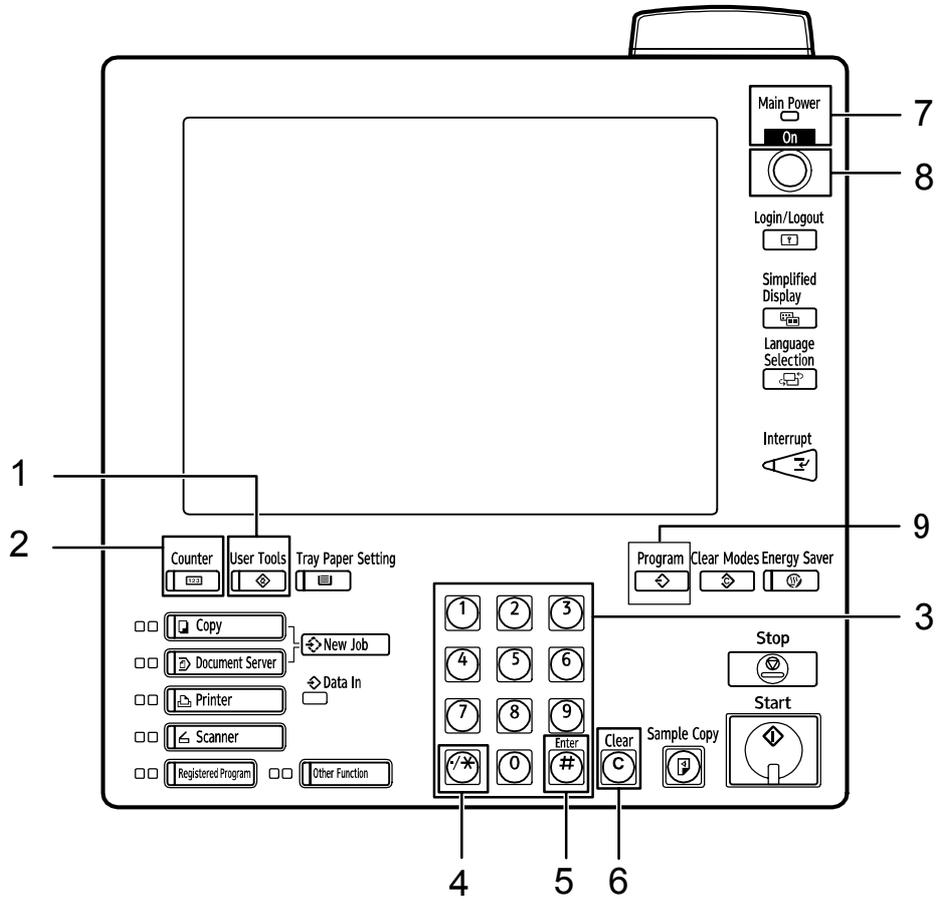
APW001S.eps

1. Right front door
2. Left front door
3. Inner cover
4. Fusing unit drawer
5. Operation panel

Parts, Screw Color Codes

- Handles and levers colored purple indicate where you should pull or lift a component or part to move or remove it.
- Black screws are the screws you must remove in order to remove the unit or component. Never remove screws of any other color.

OPERATION PANEL



APW002.WMF

1. User Tools
2. Counter
3. Number keys
4. /* key
5. Enter key
6. Clear key
7. On indicator
8. Operation Switch
9. Program Key

2. COMMON PROCEDURES

POWER OFF BEFORE ANY PROCEDURE!

⚠ WARNING

- To prevent electrical shock, switch off the main power switch and disconnect the power cord from the wall outlet.
- Disconnect *all* other cables (USB, network, etc.).

Preparation

Before doing any procedure described in this manual, always:

1. Press the operation switch to turn the machine off.
2. After turning off the operation switch, turn off the main switch.
3. Wait a few seconds then disconnect the power cord from the power supply.
4. Disconnect all other cables connected to the copier (USB, network, etc.), if such cables are connected.
5. The fusing unit becomes extremely hot during normal operation. After turning the copier off and disconnecting the power cable, allow the machine to sit for at least 30 minutes so the fusing unit can cool.

The operation switch is on the operation panel. (See "Operation Panel".)

The main power switch is on the front, left corner of the machine and is covered by a small plastic cover.

The machine is cycled on and off at the beginning and end of the work day with the operation switch. The main power switch should remain on 24 hours a day unless the machine is being serviced.

SYSTEM AUTO RESET TIMER (TIMER SETTINGS)

Refer to "General Settings Guide" for your machine to change the setting.

The System Reset setting automatically switches the screen to that of the function set in Function Priority when no operations are in progress.

- On
- Off

The settings should be "Off".

When you make the settings to "On", the time should be set 999 seconds, using number keys.

2.1 LAUNCHING THE TCRU DISPLAY

OVERVIEW

- The TCRU SD card contains an LCD display application specially designed for use with TCRU machines.
- The TCRU SD card can be used only with a TCRU machine. It will not function with other models.
- The LCD display application of the TCRU card is protected by a built-in authentication function. This means that the LCD display application cannot be copied or moved.

⚠ CAUTION
Any attempt to copy or move the LCD application will permanently disable the TCRU SD card.

INSTALLATION, TCRU SETUP

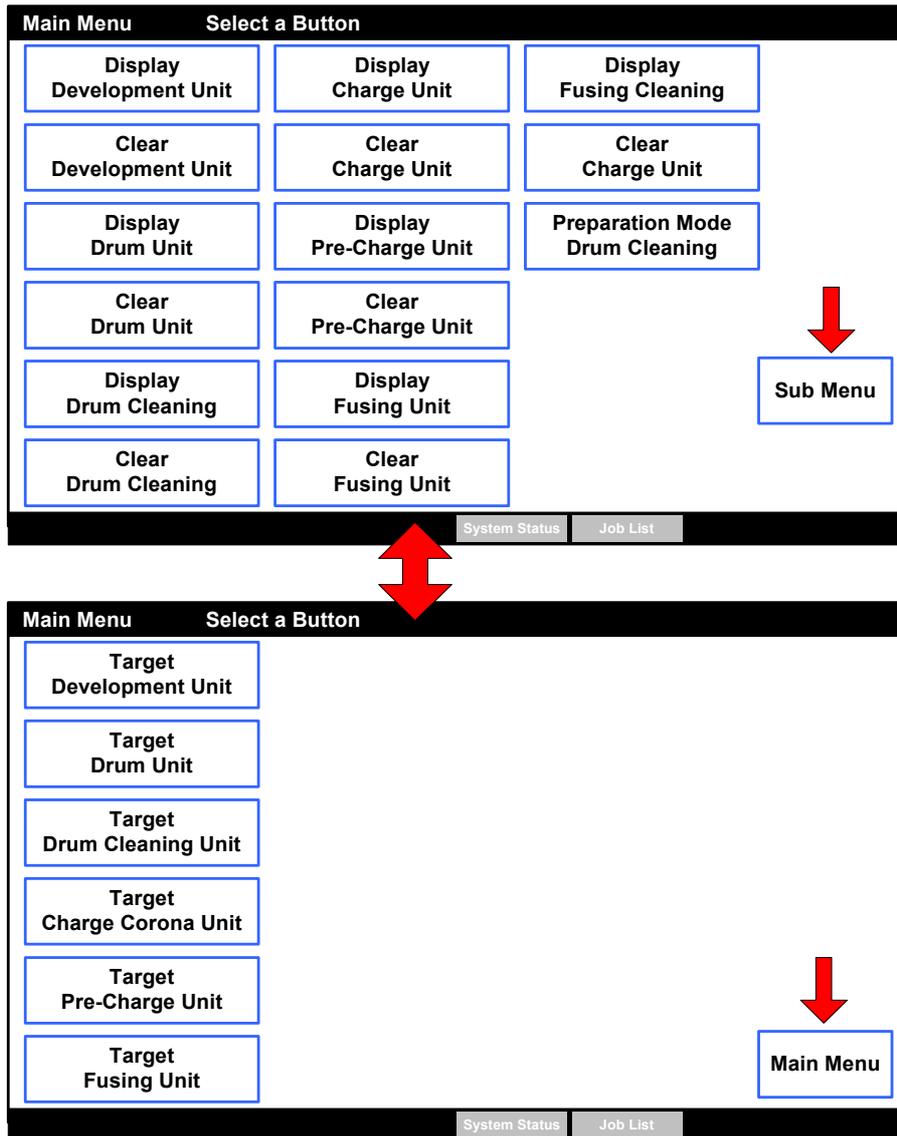
1. Insert the TCRU SD card into one of the SD card slots on the back of the machine.
 - The TCRU SD card can be inserted into any SD card slot.

Important: Always switch of the machine before you remove the TCRU SD card.

- After inserting the TCRU SD card, press the [Program] (⇨) key on the operation panel to display the TCRU screen.

NOTE: The [Program] (⇨) key on the operation panel functions as a toggle to rotate the displays on the LCD: TCRU screen > Program screen > TCRU screen > Copy screen.

The Main Menu is shown below.



B234I910.WMF

- Alternately touching the [Sub Menu] and [Main Menu] buttons switches between the Main Menu and Sub Menu display.

TCRU MENU SUMMARY

Here is a summary of the functions of the buttons on the Main Menu.

Main Menu

1. [Display] buttons

There is one [Display] button for each of the seven units. When a [Display] button is pressed, the counter value for that unit is displayed. Press the [#] key to return to the previous display.

2. [Clear] buttons

There is one [Clear] button for each of the seven units. When a [Clear] button is pressed this performs initialization for a new unit and clears the counter for that unit.

- If an error occurs during the counter clear/initialization, an error message is displayed.
- If the counter clear/initialization completes successfully, "Finished!" is displayed.

3. [Preparation Mode Drum Cleaning] button

Pressing this button applies a thin coat of toner to the surface of the OPC drum.

4. [Sub Menu] button

Displays the Sub Menu.

Sub Menu

1. [Target] buttons

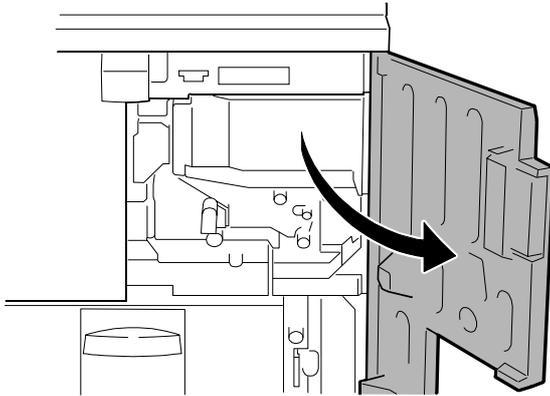
There is one [Target] button for each unit (except the Fusing Cleaning Unit). Please follow the instructions of the Service Representative if you change the target for any unit.

2. [Main Menu] button

Displays the Main Menu.

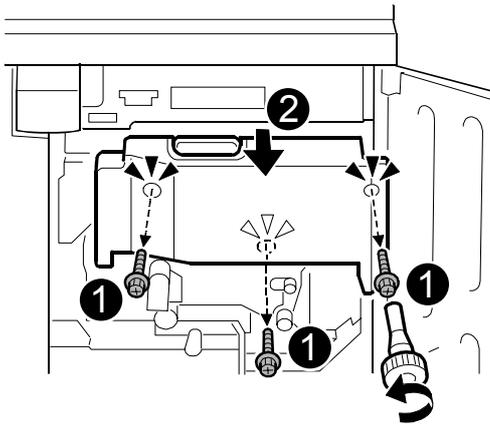
2.2 DEVELOPMENT UNIT DRAWER OUT PROCEDURE

1. Open the right front door.



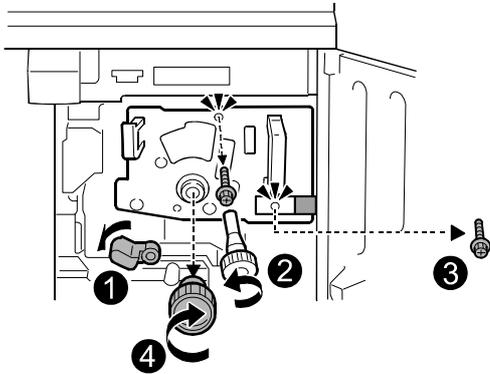
B234i106.WMF

2. Remove the three black screws at ❶.
3. Take off the inner cover ❷.



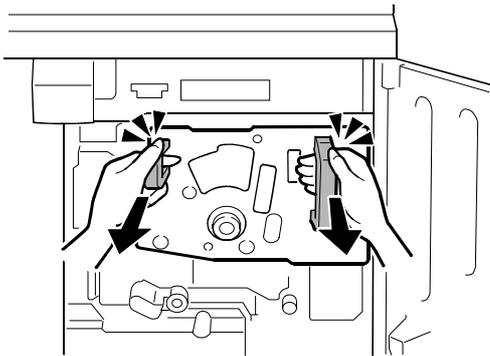
B234i107.WMF

4. Gently lower lever **C1 ❶**.
5. Remove the black screw **❷** (⚙️ x1).
6. Remove the black screw **❸** (⚙️ x1), and then remove the small plate gently.
7. Rotate the black knob **❹** clockwise and remove it.



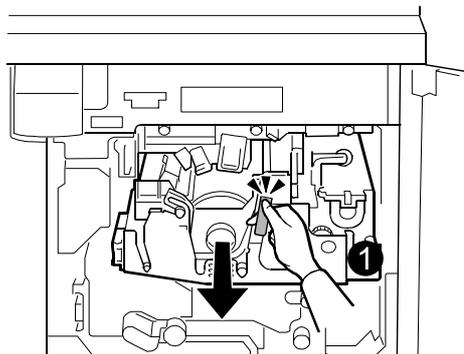
B234i110.WMF

8. Pull the purple handles toward you and remove the faceplate.



B234i110A.WMF

9. Pull the purple handle toward you until the drawer stops.
The development unit **❶** will shift slightly to the right as you pull the drawer out.



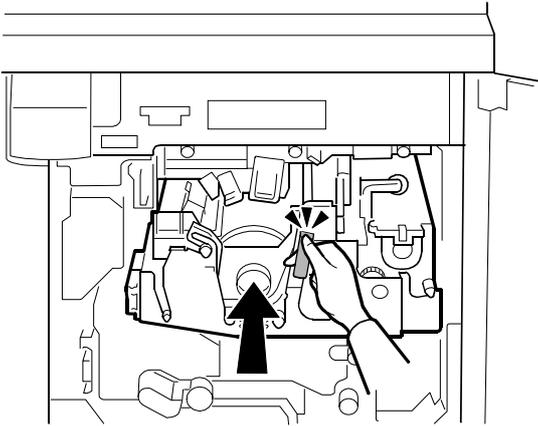
B234i111.WMF

Important: Use a sheet of clean paper to cover the slit of the Drum Unit where the drum is visible. This protects the photo-sensitive surface of the drum from overhead light and direct sunlight.

2.3 DEVELOPMENT UNIT DRAWER IN

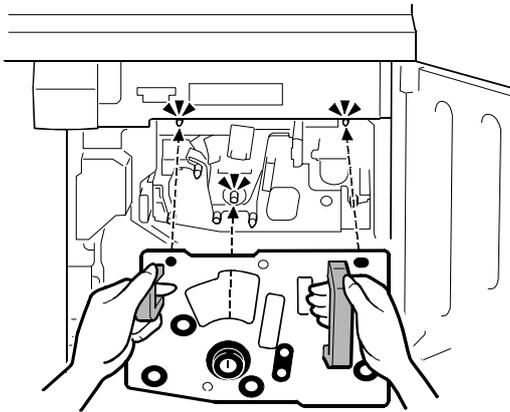
PROCEDURE

1. Gently and firmly push the purple handle into the machine until the drawer stops and locks.



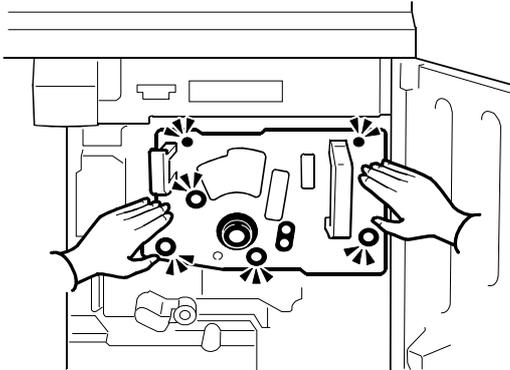
B234i111A.WMF

2. Mount the faceplate holes over the pegs.



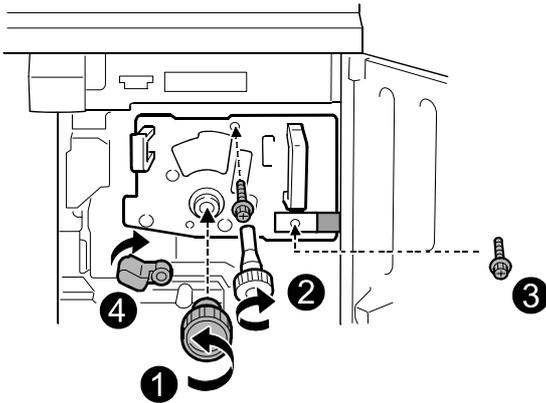
B234i110B.WMF

3. Push in on each corner and edge of the faceplate to make sure that it is locked and mounted correctly.



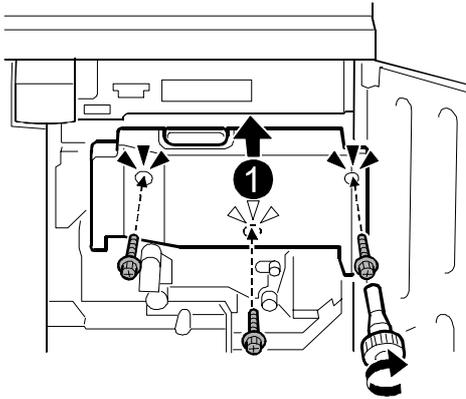
B234i110C.WMF

4. In this order:
- Attach knob ❶.
 - Fasten screw ❷.
 - Attach the small plate, and then fasten screw ❸.
 - Gently rotate lever C1 ❹ up.



B234i110D.WMF

5. Mount the inner cover.
 - Attach screw ❶, but do not tighten it.
 - Attach the other screws.
 - Tighten all the screws.



B234i107B.WMF

6. Close the right front door.

3. DEVELOPMENT UNIT

3.1 REMOVE THE DEVELOPMENT UNIT

What You Need

- Accessory hex driver provided with machine.
- Newspaper or other paper to spread on a flat surface where the removed component can be placed.

WARNING

- **To prevent electrical shock, switch off the main power switch and disconnect the power cord from the wall outlet.**
- **Disconnect *all* other cables (USB, network, etc.).**
- **The Development unit weighs approximately 5 kg (11 lb.), so handle it carefully when you remove it to avoid dropping it and causing damage or minor injuries.**

Message for Replacement

```
Replacement of Development Unit(s) is now necessary.  
Replace development Unit(s).
```

When this message appears, replace the unit as described below.

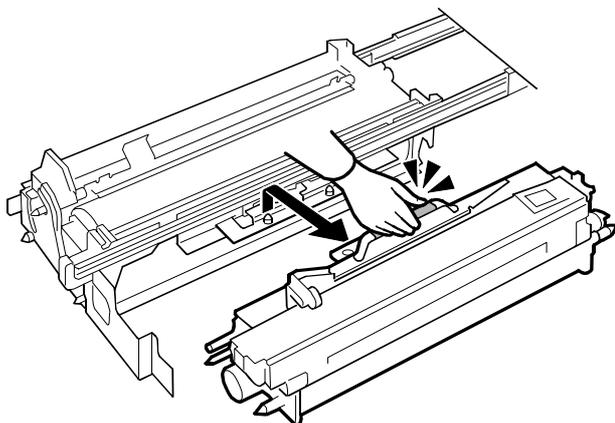
PREPARATION: PRINT OUT COUNTER LIST

1. Press [Counter] on the operation panel (see "Operation Panel") and print out the counter list.

```
Turn off the main power switch.
```

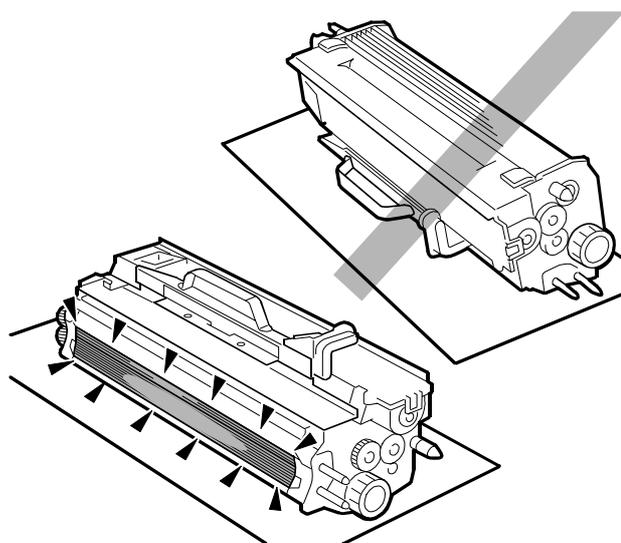
PROCEDURE

1. Open the right front door, remove the inner cover and faceplate, then pull out the development unit drawer. (See “2.2 Development Unit Drawer Out”.)
2. Lift the development unit by its purple handle and hold it level as you remove it.
Important: Holding the development unit level prevents toner spillage.



B234i112.WMF

3. Lay the development unit on some spread paper as shown.

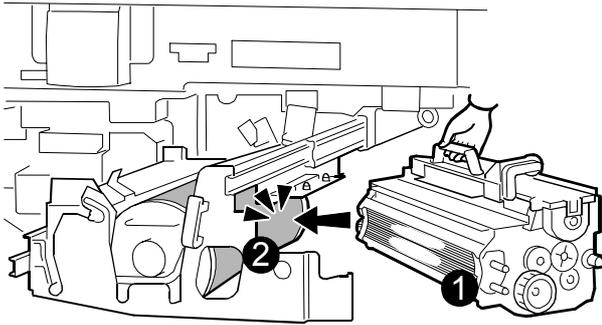


B234i112C.WMF

3.2 REINSTALL THE DEVELOPMENT UNIT

Important: When you reinstall the development unit, handle it carefully.

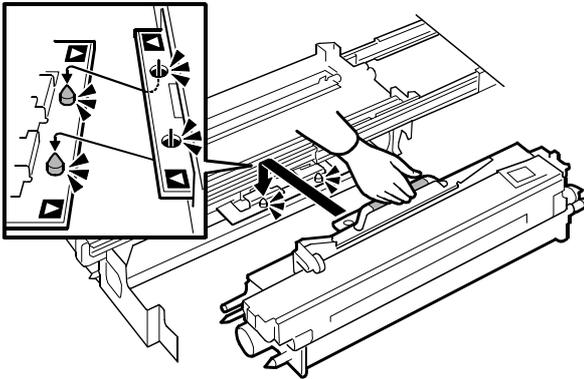
- Never allow the development roller ❶ to touch the OPC drum ❷ or any other part of the development unit drawer.
- Scratches or other damage to either the drum or development roller will adversely affect the operation of the machine.



B234i112B.WMF

PROCEDURE

1. Align the triangular reference marks on the development unit and drawer frame.



B234i112A.WMF

2. Place the holes on the edge of the development unit over the pegs on the drawer frame.
3. Push the development unit drawer into the machine, reattach the faceplate and inner cover, then close the right front door. (See "2.3 Development Unit Drawer In")
4. Reconnect the power cable and other cables.
5. Press the main power switch to turn the machine on and wait for the machine to warm up.
6. Launch the TCRU display. (See "2.1 Launching the TCRU Display".)
7. Press the [Clear Development Unit] button.

4. PRE-CHARGE UNIT

4.1 REMOVE THE PRE-CHARGE UNIT

What You Need

- Accessory hex driver provided with machine.
- Newspaper or other paper spread on a flat surface where the removed component can be placed.

WARNING

- **To prevent electrical shock, switch off the main power switch and disconnect the power cord from the wall outlet.**
- **Disconnect *all* other cables (USB, network, etc.).**

Message for Replacement

```
Replacement of Sub-charger is now necessary.  
Replace Sub-charger.
```

When this message appeared, replace the unit as shown procedures below.

PREPARATION: PRINT OUT COUNTER LIST

1. Press [Counter] on the operation panel (see "Operation Panel") and print out the counter list.

```
Turn off the main power switch.
```

PROCEDURE

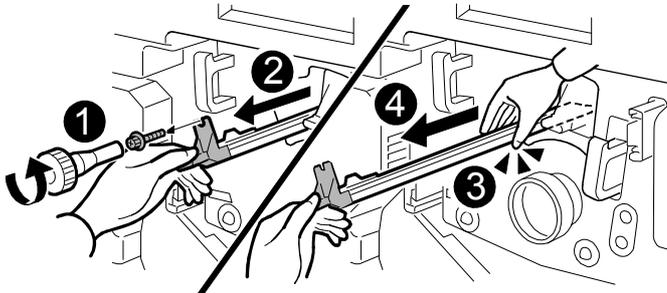
1. Open the right front door and remove the inner cover. (See “2.2 Development Unit Drawer Out”.)

NOTE: It is not necessary to remove the faceplate.

2. Remove screw ❶ of the pre-charge unit handle.
3. Pull on the purple handle ❷ to pull out the pre-charge unit.

NOTE: The handle of the pre-charge unit is the smaller handle pointing slightly to the left.

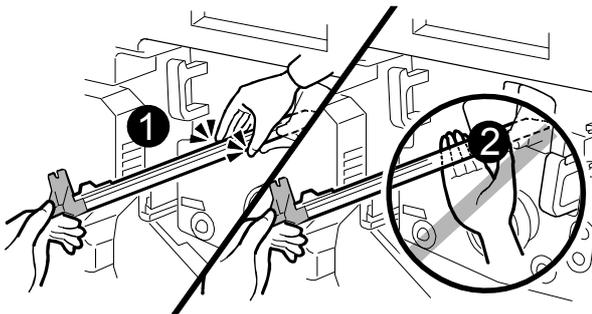
4. Hold the pre-charge unit with both hands at the front and on both sides at the end ❸ and pull it out in the direction of the arrow ❹ to remove it.



B234i109.WMF

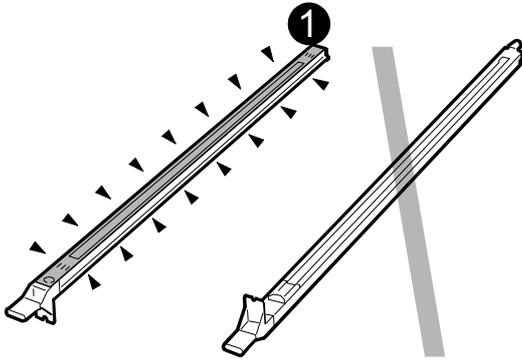
Important: To protect the pre-charge unit from fingerprints, scratches, and dust:

- Always hold the pre-charge unit ❶ with both hands.
- Never touch the wire mesh ❷ below.
- Never allow anything to touch the wire mesh while the pre-charge unit is out of the machine.



B234i109A.WMF

5. Lay the pre-charge unit with its wire mesh ❶ facing up.



B234i109B.WMF

4.2 REINSTALL THE PRE-CHARGE UNIT

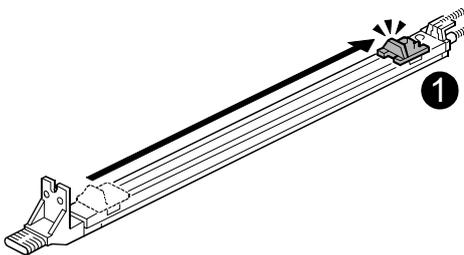
Important: To protect the unit from fingerprints, scratches, and dust:

- Never touch the wire mesh on the bottom of the pre-charge unit.
- Never allow anything to touch the wire mesh while the pre-charge unit is out of the machine.

PROCEDURE

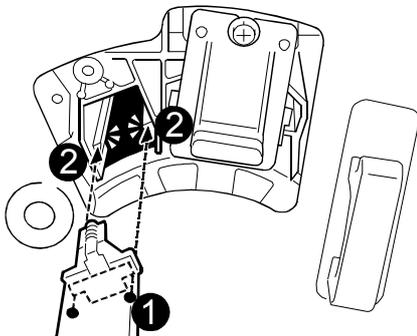
1. Confirm that the wire cleaning pad ❶ is at the back end of the unit.

Important: If the cleaning pad is not at the back end, slowly push it to the back end of the pre-charge unit.



B234i109D.WMF

2. While holding the pre-charge unit with both hands and the wire mesh facing down, set the pre-charge unit ❶ on its rails ❷ then gently push it in until it stops.



B234i109C.WMF

3. Push the holes on the handle over the pegs.
4. While pressing in on the handle, reattach the screw removed in Step 2 of the removal.
5. Reattach the inner cover and close the right front door. (See "2.3 Development Unit Drawer In")
6. Reconnect the power cord and cables.
7. Press the main power switch to turn the machine on and wait for the machine to warm up.
8. Launch the TCRU display. (See "2.1 Launching the TCRU Display".)
9. Press the [Clear Pre-Charge Unit] button.

5. CHARGE CORONA UNIT

5.1 REMOVE THE CHARGE CORONA UNIT

What You Need

- Accessory hex driver provided with machine.
- Newspaper or other paper spread on a flat surface where the removed component can be placed.

WARNING

- To prevent electrical shock, switch off the main power switch and disconnect the power cord from the wall outlet.
- Disconnect *all* other cables (USB, network, etc.).

Message for Replacement

```
Replacement of Charger is now necessary.  
Replace Charger.
```

When this message appeared, replace the unit as shown procedures below.

PREPARATION: PRINT OUT COUNTER LIST

1. Press [Counter] on the operation panel (see "Operation Panel") and print out the counter list.

```
Turn off the main power switch
```

PROCEDURE

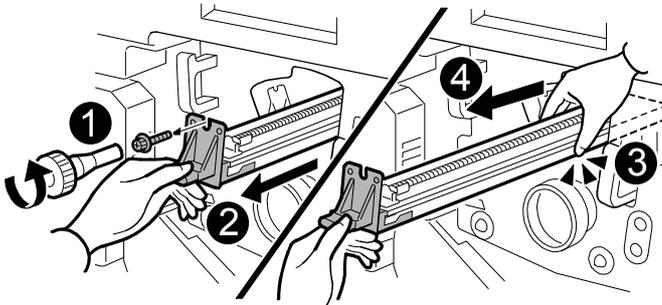
1. Open the right front door and remove the inner cover. (See “2.2 Development Unit Drawer Out”.)

NOTE: It is not necessary to remove the faceplate.

2. Remove screw ❶ of the charge corona unit.
3. Pull on the purple handle ❷ to pull out the charge corona unit.

NOTE: The handle of the charge corona unit is the larger handle pointing slightly to the right.

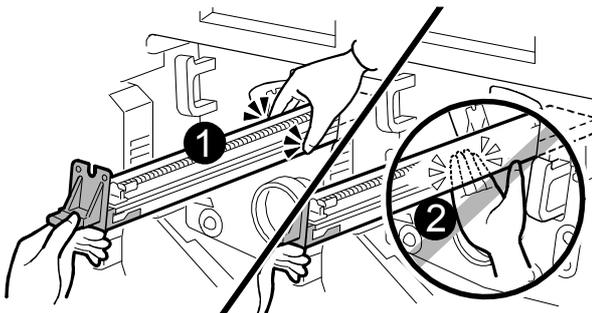
4. Hold the charge corona unit with both hands at the front and on both sides at the end ❸ and then pull it out in the direction of the arrow ❹ to remove it.



B234i108.WMF

Important: To protect the charge corona unit from fingerprints, scratches, and dust:

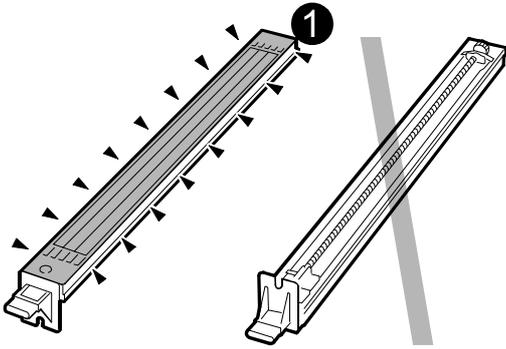
- Always hold the charge corona unit ❶ with both hands.
- Never touch the wire mesh ❷ below.
- Never allow anything to touch the wire mesh while the charge corona unit is out of the machine.



B234i108A.WMF

5 CHARGE CORONA UNIT

5. Lay the charge corona unit with its wire mesh ❶ facing up.



B234i108B.WMF

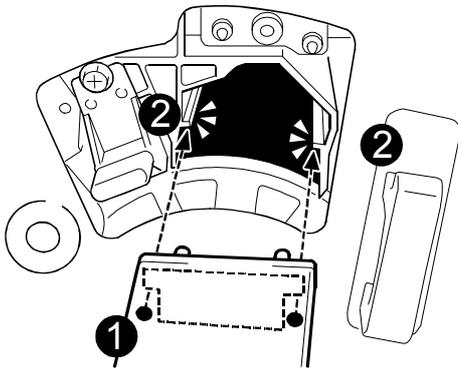
5.2 REINSTALL THE CHARGE CORONA UNIT

Important: To protect the unit from fingerprints, scratches, and dust:

- Never touch the wire mesh on the bottom of the charge corona unit.
- Never allow anything to touch the wire mesh while the charge corona unit is out of the machine.

PROCEDURE

1. While holding the charge corona unit with both hands and the wire mesh facing down, set the unit **1** on its rails **2** then slowly push it in until it stops.



B234i108C.WMF

2. Push the holes on the handle over the pegs and reattach the screw removed in Step 2 of the removal.
3. Reattach the inner cover and close the right front door. (See "2.3 Development Unit Drawer In")
4. Reconnect the power cord and cables.
5. Press the main power switch to turn the machine on and wait for the machine to warm up.
6. Launch the TCRU display. (See "2.1 Launching the TCRU Display".)
7. Press the [Clear Charge Corona Unit] button.

6. DRUM CLEANING UNIT

6.1 REMOVE THE DRUM CLEANING UNIT

What You Need

- Accessory hex driver provided with machine.
- Newspaper or other paper spread on a flat surface where the removed component can be placed.

WARNING

- **To prevent electrical shock, switch off the main power switch and disconnect the power cord from the wall outlet.**
- **Disconnect *all* other cables (USB, network, etc.).**

Message for Replacement

```
Replacement of Cleaning Unit for PCU is now necessary.  
Replace Cleaning Unit for PCU.
```

When this message appears, replace the unit as shown procedures below.

PREPARATION: PRINT OUT COUNTER LIST

1. Press [Counter] on the operation panel (see "Operation Panel") and print out the counter list.

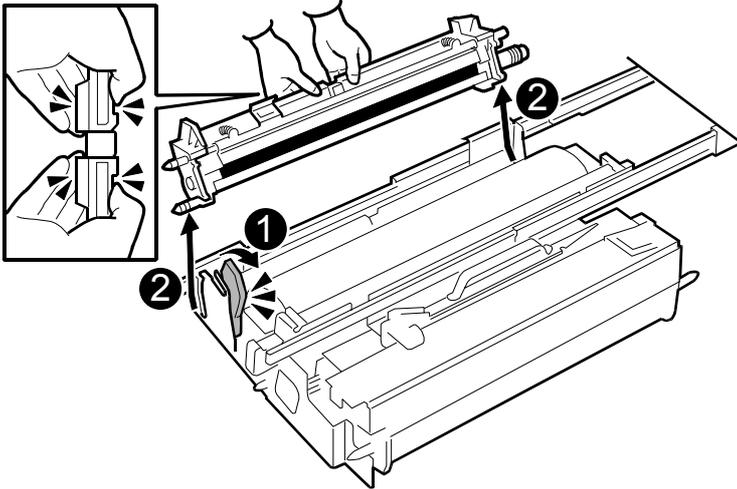
PROCEDURE

1. Launch the TCRU display and press the [Preparation Mode Drum Cleaning Unit] button.

NOTE: If you replace drum cleaning unit with the drum unit, Step 1 is unnecessary.

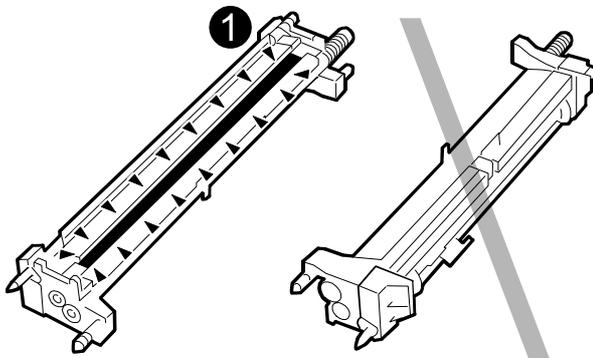
Turn off the main power switch.

2. Open the right front door, remove the inner cover and faceplate, then pull out the development drawer unit. (See “2.2 Development Unit Drawer Out”.)
3. Raise the purple lever ❶ and pull the drum cleaning unit to the left ❷ until it disengages the lever.
4. Lift the unit out of the drawer.
5. Grasp the drum cleaning unit by its handles as shown and lift it straight up.



B234i113.WMF

6. To avoid spilling toner, always carry the unit level with the exposed roller facing ❶ up (not down).



B234i113A.WMF

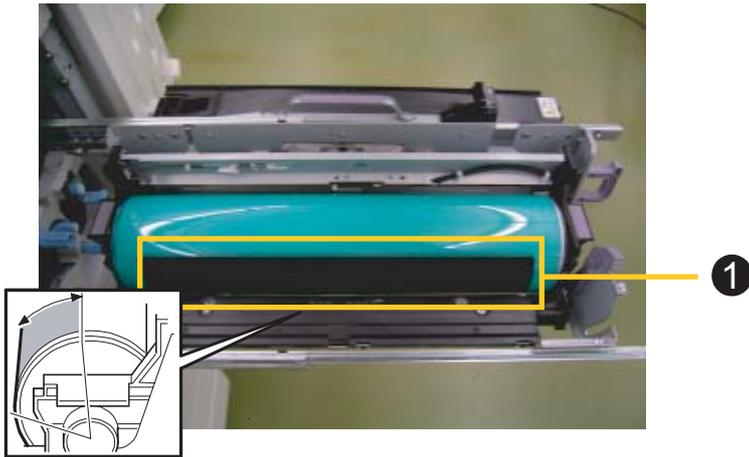
6.2 REINSTALL THE DRUM CLEANING UNIT

PROCEDURE

NOTE: If you replace drum unit with the drum cleaning unit, refer to page 34.

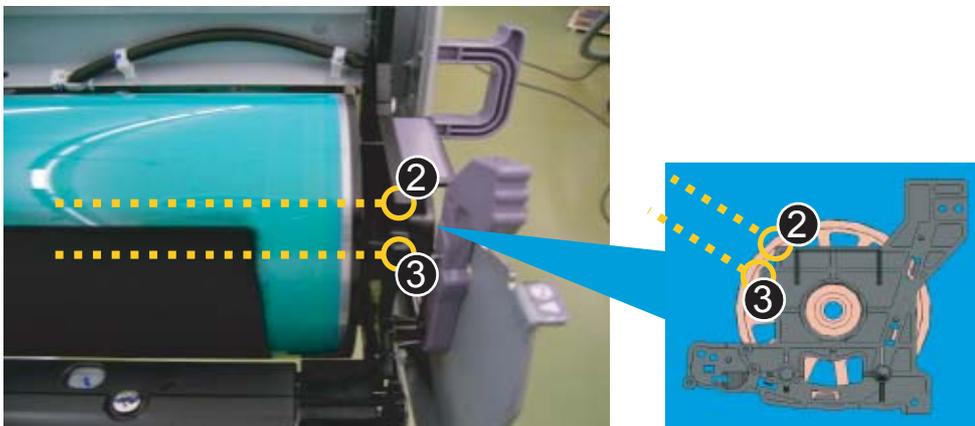
1. Handle the sides of drum carefully, and turn the drum over until shown the black area ❶.

IMPORTANT: Never touch the green surface of the drum.



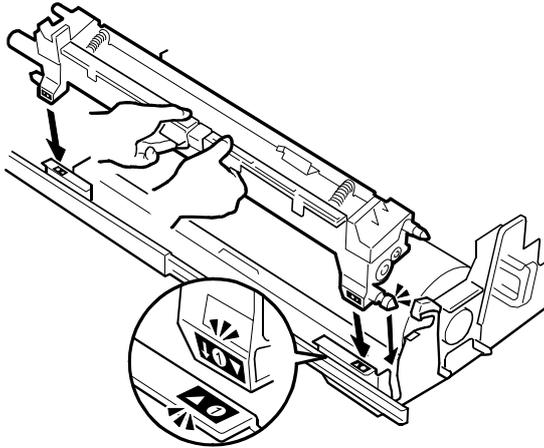
p33-1.eps

2. Adjust the edge of black area between the corner ❷ and ❸.



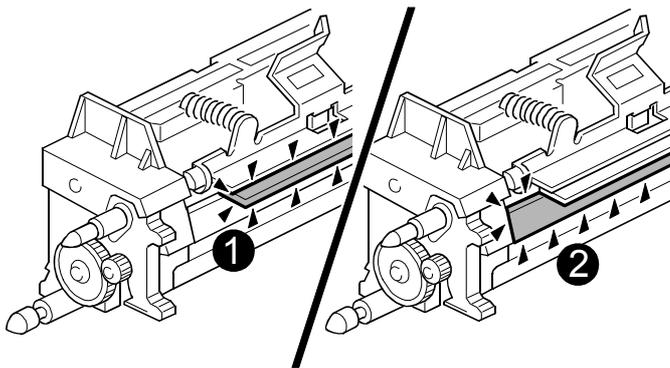
p33-2.eps

- Align the triangular reference marks on the drum cleaning unit and development unit drawer then set the unit on the frame.



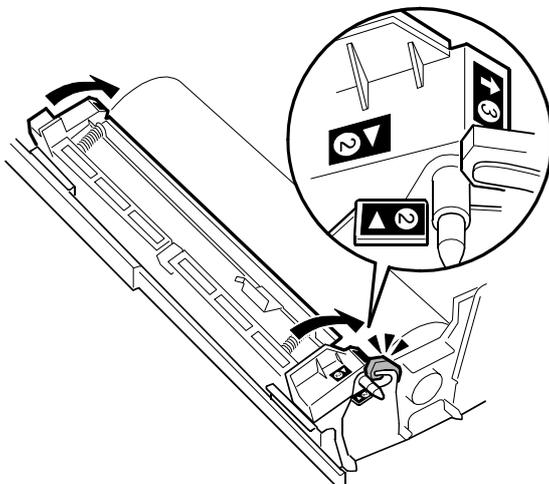
B234i113B.WMF

- Make sure the two cleaning blades ❶ and ❷ are over the black area of the drum.



B234i113D.WMF

- Align the triangular reference marks at ❷ and set the drum cleaning unit on the frame.
- Rotate the drum cleaning unit to the right ❸ until the purple lever locks.



B234i113C.WMF

6 DRUM CLEANING UNIT

7. Reattach the inner cover and close the right front door. (See "2.3 Development Unit Drawer In")
8. Reconnect the power cord and cables.
9. Press the main power switch to turn the machine on and wait for the machine to warm up.
10. Launch the TCRU Display. (See "2.1 Launching the TCRU Display".)
11. Press the [Clear Drum Cleaning Unit] button

7. DRUM UNIT

7.1 REMOVE THE DRUM UNIT

What You Need

- Accessory hex driver provided with machine.
- Newspaper or other paper spread on a flat surface where the removed component can be placed.

WARNING

- **To prevent electrical shock, switch off the main power switch and disconnect the power cord from the wall outlet.**
- **Disconnect *all* other cables (USB, network, etc.).**

Message for Replacement

Replacement of Drum Unit is now necessary.
Replace Drum Unit.

When this message appeared, replace the unit as shown procedures below.

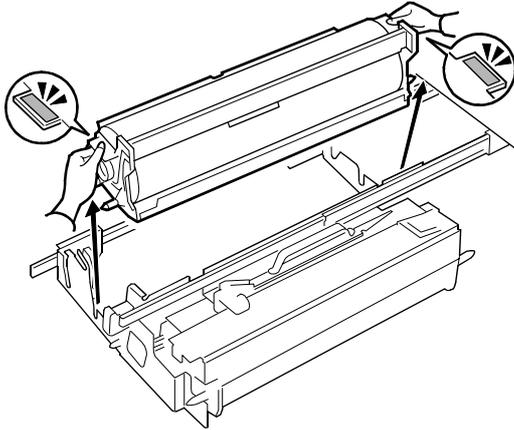
PREPARATION: PRINT OUT COUNTER LIST

1. Press [Counter] on the operation panel (see "Operation Panel") and print out the counter list.

Turn off the main power switch.

PROCEDURE

1. Open the right front door, remove the inner cover and faceplate, then pull out the development unit drawer. (See “2.2 Development Unit Drawer Out”.)
2. Remove the drum cleaning unit. (See “6.1 Remove the Drum Cleaning Unit”.)
3. Lift the Drum Unit by its purple handles and remove it.



B234i114.WMF

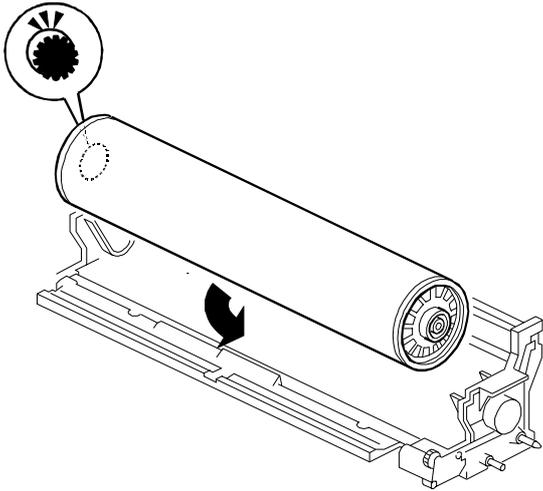
7.2 REINSTALL THE DRUM UNIT

PROCEDURE

1. First, set the drum into the frame. Handle the sides of drum carefully.

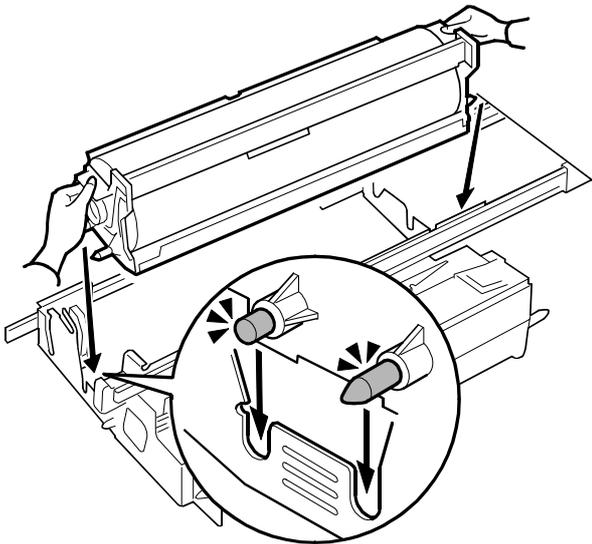
NOTE: The drum and frame are packed separately.

IMPORTANT!: Never touch the green area of the drum.



BC3PCU1.WMF

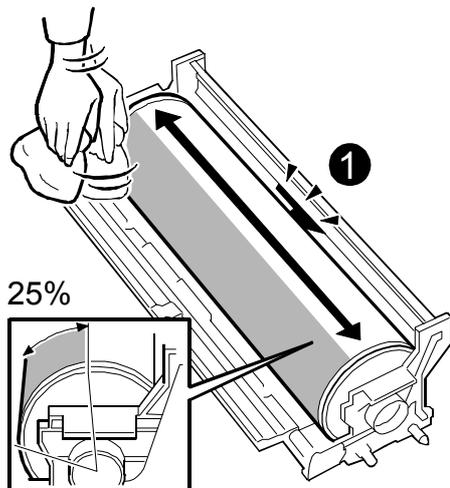
2. Set the new drum unit in the development unit drawer, and make sure that the two pins are seated securely in their grooves at the front.



B234i114B.WMF

3. Remove the drum setting powder applicator from TCRU kit.

- Pat the surface of the drum lightly with the powder pad applicator.



B234i114A.WMF



v3_slide0003.eps

Important:

- Setting powder must be applied to at least 25% of the surface of the drum to prevent damage to the drum cleaning unit and the drum.
 - The setting powder is an inert substance that is not harmful to the human body.
 - Never apply setting powder to the area around the potential sensor ❶. If powder gets on the potential sensor this could damage the sensor or cause the sensor to malfunction.
- Reinstall the drum cleaning unit. (See "6.2 Reinstall the Drum Cleaning Unit".)
 - Push the development unit drawer into the machine, reinstall the faceplate and inner cover, then close the right front door. (See "2.3 Development Unit Drawer In".)
 - Reconnect the power cord and cables.
 - Press the main power switch to turn the machine on and wait for the machine to warm up.
 - Launch the TCRU display. (See "2.1 Launching the TCRU Display".)
 - Press the [Clear Drum Unit] button.

8. FUSING UNIT

8.1 REMOVE THE FUSING UNIT

CAUTION

- To prevent electrical shock, switch off the main power switch and disconnect the power cord from the wall outlet.
- Disconnect *all* other cables (USB, network, etc.).
- The fusing unit becomes extremely hot during operation, so to prevent minor burns, switch the machine off and allow it to cool for at least 30 minutes before you remove the fusing unit.
- The fusing unit weighs approximately 14 kg (30.9 lb.) so handle it carefully when you remove it to avoid dropping it and causing damage or minor injuries.

Important:

- Confirm that the replacement fusing unit is the correct type for the machine.
- A fusing unit with the black top is for the B234 (90 ppm) or B235 (110 ppm).
- A fusing unit with the yellow top is for the B236 (135 ppm) only.
- If you install the incorrect fusing unit for the machine, the machine will display an alert and the machine will not operate until the correct fusing unit is installed.

What You Need

- Accessory hex driver provided with machine.
- Newspaper or other paper spread on a flat surface where the removed component can be placed.

Message for Replacement

```
Replacement of Fusing Unit is now necessary.  
Replace Fusing Unit.
```

When this message appears, replace the fusing unit as described below.

PREPARATION: PRINT OUT COUNTER LIST

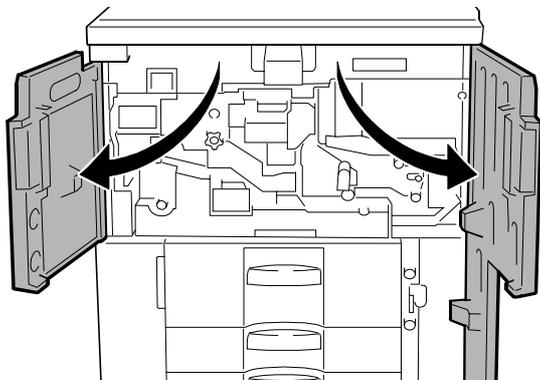
1. Press [Counter] on the operation panel (see "Operation Panel") and print the counter list.

```
Turn off the main power switch
```

PROCEDURE

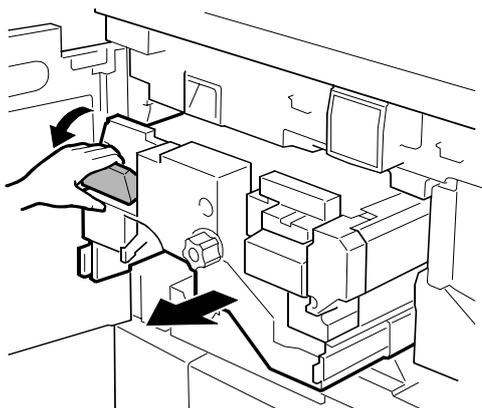
1. Open the left and right front doors.

Important: Be sure to open both the right and left front doors. You could damage the right door if you remove the fusing unit with the right door closed.



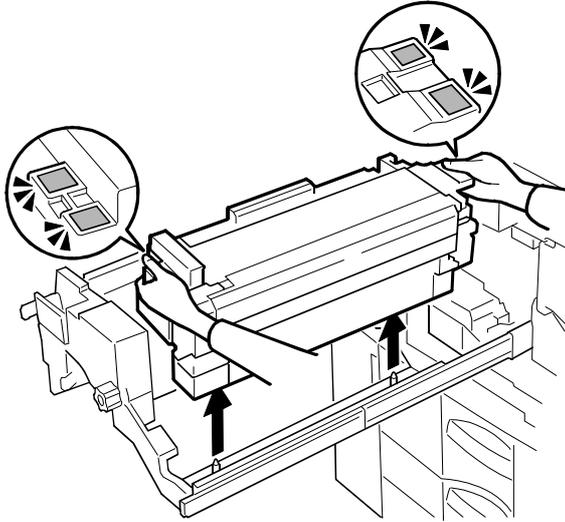
B234i101.WMF

2. Grasp handle **D2** of the fusing unit drawer and pull out the drawer gently until it stops.



B234i102.WMF

3. Firmly grip the purple handles of the fusing unit with both hands, lift the fusing unit and remove it.



B234i103.WMF

⚠ CAUTION

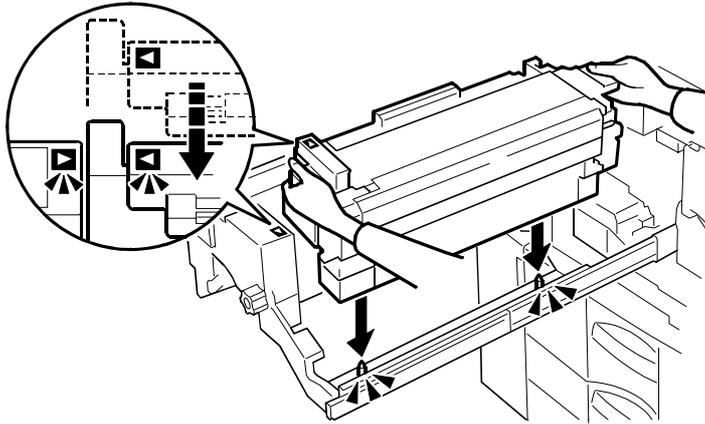
The fusing unit weighs approximately 14 kg (30.9 lb.). Handle it carefully when you lift it and set it down.

4. Set the fusing unit down on its bottom.

8.2 REINSTALL THE FUSING UNIT

PROCEDURE

1. Hold the new fusing unit so the triangular reference marks are aligned as shown.



B234i104.WMF

2. Lower the new fusing unit onto the frame.
3. Make sure that holes of the fusing unit are properly mounted onto the pegs below.
4. Push handle **D2** until the fusing unit stops and locks inside the machine.
5. Close the left and right front doors.
6. Reconnect the power cable and other cables.
7. Press the main power switch to turn the machine on and wait for the machine to warm up.
8. Launch the TCRU display. (See "2.1 Launching the TCRU Display".)
9. Press the [Clear Fusing Unit] button.

9. FUSING CLEANING UNIT

9.1 REMOVE THE FUSING CLEANING UNIT

CAUTION

- To prevent electrical shock, switch off the main power switch and disconnect the power cord from the wall outlet.
- Disconnect *all* other cables (USB, network, etc.).
- The fusing unit becomes extremely hot during operation, so to prevent minor burns, switch the machine off and allow it to cool for at least 30 minutes before you remove the fusing unit.

What You Need

- Accessory hex driver provided with machine.
- Newspaper or other paper spread on a flat surface where the removed component can be placed.

Message for Replacement

```
Cleaning web is almost worn out.  
Replace cleaning unit for Fusing Unit
```

When this message appears, replace the unit as shown procedures below.

PREPARATION: PRINT OUT COUNTER LIST

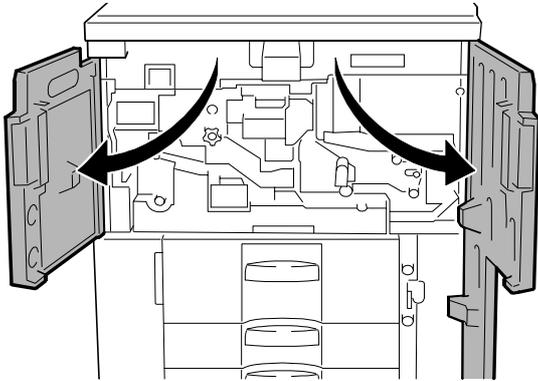
1. Press [Counter] on the operation panel (see "Operation Panel") and print out the counter list.

```
Turn off the main power switch
```

PROCEDURE

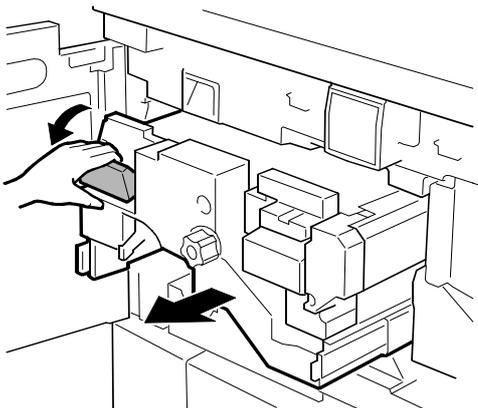
1. Open the left and right front doors.

Important: Be sure to open both the right and left front doors. You could damage the right door if you remove the fusing unit with the right door closed.



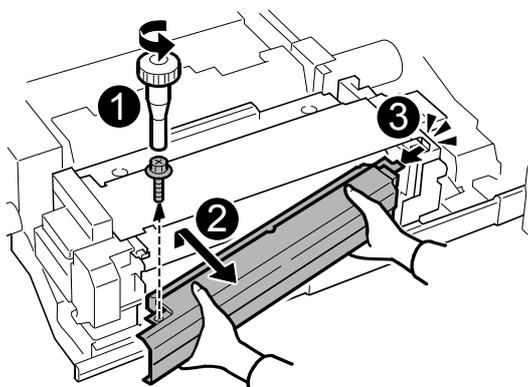
B234i101.WMF

2. Grasp handle **D2** of the fusing unit drawer and pull out the drawer gently until it stops.



B234i102.WMF

3. Remove the black screw **1**.



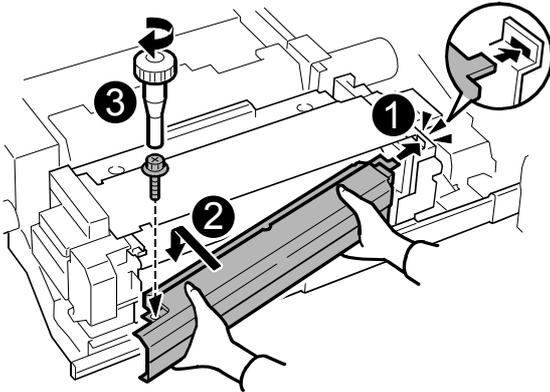
B234i105.WMF

4. Slowly swing the front end away from the fusing unit at ❷, and disconnect the fusing cleaning unit tab at the back end ❸.
 - You might need to lift the fusing cleaning unit slightly at ❷ as you pull it away from the fusing unit.
 - Hold the fusing cleaning unit with both hands when you remove it.

9.2 REINSTALL THE FUSING CLEANING UNIT

PROCEDURE

1. While holding the fusing cleaning unit with two hands, insert the back tab of the fusing cleaning unit ❶ into the hole.



B234i105A.WMF

2. Slowly push in the front end to align the screw holes at ❷.
3. Attach the screw ❸ to fasten the fusing cleaning unit.
4. Gently push handle **D2** until the fusing unit stops and locks inside the machine.
5. Close the left and right front doors.
6. Reconnect the power cable and other cables.
7. Press the main power switch to turn on the machine and wait for the machine to warm up.
8. Launch the TCRU display. (See "2.1 Launching the TCRU Display".)
9. Press the [Clear Fusing Cleaning Unit] button.

10. USED TONER BOTTLE

10.1 REMOVE THE USED TONER BOTTLE

What You Need

- New toner bottle

Message for Replacement

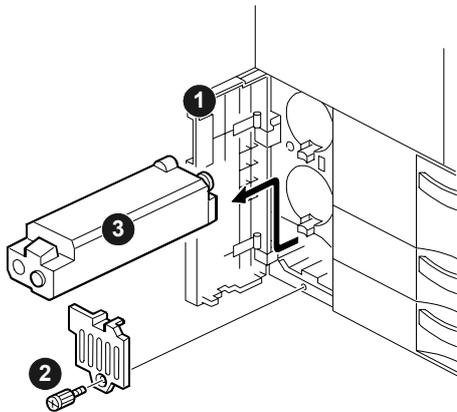
Used Toner Bottle is full.
Replace Used Toner Bottle.

When this message appears, replace the unit as described below.

Turn off the main power switch

PROCEDURE

1. At the front of the machine open the door ❶.
2. Remove the toner bottle cover knob screw and cover plate ❷.
3. While keeping the used toner bottle ❸ perfectly horizontal, remove it from the machine.



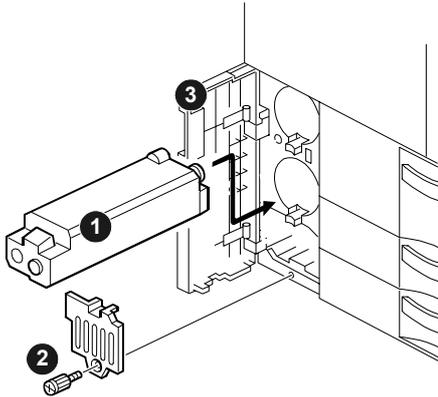
B2341902.WMF

Important: To avoid toner spillage while handling the used toner bottle, always keep the used toner bottle perfectly level.

10.2 INSTALL THE NEW TONER BOTTLE

PROCEDURE

1. Install the new toner bottle ❶.
2. Reattach the plate and screw ❷.
3. Close the door ❸.



B234I903.WMF

4. Turn on the main power switch.