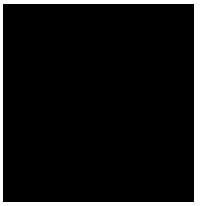
MAINTENANCE



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1. MAINTENANCE SCHEDULE

- To ensure that the copier produces good copies and to extend its service life, it is recommended that the maintenance jobs described in this schedule be carried out as instructed.

	PM Parts	Maintenance Cycle		Parts No.	Ref. Page in This Manual
		Clean	Replace		
Paper Take-Up Section	Paper Take-Up Roll	When paper take-up failure occurs	200 K	27AE4301✻ (1st) 111T5101✻ (2nd)	☞ E-5
	Separator Roll Assy	When paper take-up failure occurs	200 K	111T-501✻	☞ E-5 ☞ E-6
Transfer Section	Synchronizing Roller	Upon each call (60 K)	—	—	☞ E-7
	Paper Dust Remover	Upon each call (60 K)	152 K	65FA5106✻	☞ E-7 ☞ E-8
	Transport Roller	Upon each call (60 K)	—	—	☞ E-8
	2nd Image Transfer Entrance Upper Guide	Upon each call (60 K)	—	—	☞ E-8
	Image Transfer Roller Unit	—	152 K	65FA-453✻	☞ E-18
IR Section	Scanner Rail	When image failure occurs	—	—	☞ E-9
	Mirrors (1st, 2nd, 3rd)	When image failure occurs	—	—	☞ E-10
	Lens	When image failure occurs	—	—	☞ E-11
	Original Glass	When image failure occurs	—	—	☞ E-11
	CCD Sensor	When image failure occurs	—	—	☞ E-12
Image Transfer Section	Image Transfer Belt Unit	—	160 K	65FA-451✻	☞ E-19
	Waste Toner Bottle	—	30 K	65FA5105✻	☞ E-13
	Around waste toner collecting port	Upon each call	—	—	☞ E-14

	PM Parts	Maintenance Cycle		Parts No.	Ref. Page in This Manual
		Clean	Replace		
Developing Section	Imaging Unit C/M/Y	—	52 K	—	☞ E-22
	Imaging Unit Bk	—	82 K	—	
	Ozone Filter	—	152 K	65FA5106✻	☞ E-15
	Comb electrode	10 K or When image failure occurs	—	—	☞ E-15
LPH Section	LPH Assy	Upon each call or replacement of IU	—	—	☞ E-16
Fusing Section	Fusing Unit	—	152 K	65FA-530✻ (100 V) 65FF-530✻ (230 V) 65FE-530✻ (120 V)	☞ E-26
	Fusing Entrance Guide Plate	When malfunction occurs	—	—	☞ E-17
	Deodorant Filter	—	10 K	65FA5107✻	☞ E-17

NOTES

- *Replace the Paper Take-Up Roll and Separator Roll at the same time.*
- *Replace the Paper Dust Remover and Ozone Filter at the same time.*
- *When the Deodorant Filter is replaced, also replace the Bk Toner Cartridge (that comes with the Deodorant Filter).*
- *When the Toner Cartridge is replaced, also clean the Comb electrode.*
- *The numeric values in the Maintenance Cycle column represent the Life Counter values.*
- *The contents of this maintenance schedule are subject to change without notice.*
- *Ozone filter and Paper dust remover are setup together as a kit.*

1-1. Guideline for Life Specifications Values by Unit

	Description	Life Value	*new copy/print cycle is inhibited*
Waste Toner Bottle	A waste toner full condition is detected when about 3.5 K (8031) 6.9 K (8020) copies are made after a waste toner near-full condition has been detected.	—	30 K
Fusing Unit	The number of copies made is counted. (The counter counts up 2 for paper whose FD exceeds 216 mm.)	150 K	152 K
Paper Dust Remover	The number of copies made is counted. (The counter counts up 2 for paper whose FD exceeds 216 mm.)	150 K	152 K
Ozone Filter	The number of copies made is counted. (The counter counts up 2 for paper whose FD exceeds 216 mm.)	150 K	152 K
Transfer Roller Unit	The number of copies made is counted. (The counter counts up 2 for paper whose FD exceeds 216 mm.)	150 K	152 K*
Transfer Belt Unit	• The number of copies made is counted. (The counter counts up 2 for paper whose FD exceeds 216 mm.) • The number of copies made is compared with the value of the number of hours through which the belt has turned translated to a corresponding value of the number of copies made and the value, whichever reaches the life specifications value, is detected.	150 K	160 K
Imaging Unit C/M/Y (8020)	The number of hours through which the PC Drum has turned is compared with the number of hours through which the Developing Roller has turned translated to a corresponding value of the number of hours through which the PC Drum has turned and the value, whichever reaches the life specifications value, is detected.	6929 M (50 K)	7206 M (52 K)
Imaging Unit C/M/Y (8031)		3479 M (50 K)	3618 M (52 K)
Imaging Unit Bk (8020)		7627 M (80 K)	7818 M (82 K)
Imaging Unit Bk (8031)		5411 M (80 K)	5546 M (82 K)

M: minutes

NOTES

- *When the life specifications value (stop) is reached, the initiation of a new copy/print cycle is inhibited if "User" is selected for "Unit Change" accessed from "System Input" available under "Tech. Rep. Mode" and the life warning display is given if "Service" is selected for the same function ("Unit Change") (except for the Transfer Belt Unit).*
- *The life specifications values represent the number of copies made or figures equivalent to it when given conditions (see the Table given below) are met. They can be more or less depending on the copier operating conditions of each individual user.*

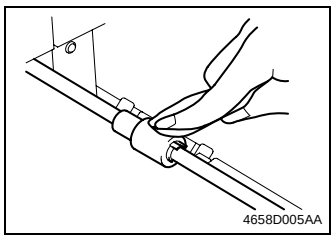
• Conditions for Life Specifications Values

	8031	8020
Job Type	Making three copies per job	Monochrome: Making three copies per job Color: Making three copies per job
Paper Size	A4C, Letter C	
Color Ratio*	Color to Black = 6.5 to 1.5	Color to Black = 1.5 to 4.5
CV/M*	8 K	6 K
Original Density	B/W = 5 % for each color, 6 % for Monochrome	
No. of Operating Days per Month	20 days (Power Switch turned ON and OFF 20 times per month)	

*: Varies according to the marketing area.

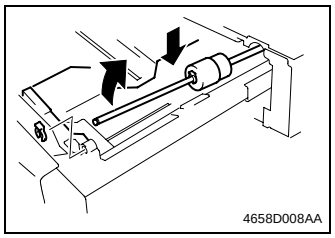
2. DISASSEMBLY/REASSEMBLY AND CLEANING

(1) Cleaning of the Paper Take-Up Roll

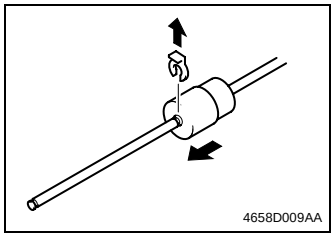


1. Slide out the drawer.
2. Using a soft cloth dampened with alcohol, wipe the Paper Take-Up Roll clean of dirt.

(2) Replacing of the Paper Take-Up Roll

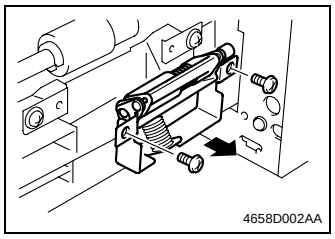


1. Slide out the drawer.
2. Lock the Paper Lifting Plate into position.
3. Snap off one C-crip from the Paper Take-Up Roll Assy.
4. Slide the Paper Take-Up Roll Assy to the rear and take its shaft off the front bushing.

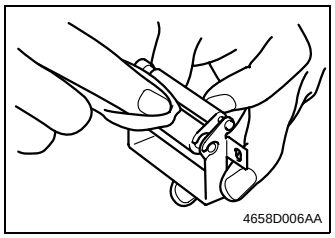


5. Snap off one C-crip and remove the Paper Take-Up Roll.
6. Remove the Paper Separator Roll Assy. [See (4) Replacement of the Paper Separator Roll Assy.]
7. To reinstall, reverse the order of removal.
8. Select “Tech. Rep. Mode” → “Counter” → “Life” and clear the count of “1st” or “2nd.”

(3) Cleaning of the Paper Separator Roll

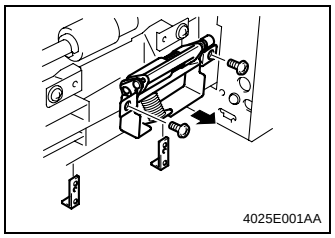


1. Slide out the drawer.
2. Remove two screws and the Paper Separator Roll mounting bracket assy.



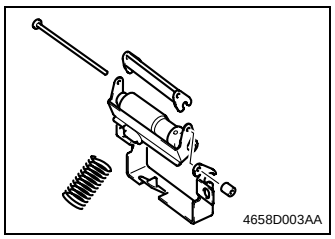
3. Using a soft cloth dampened with alcohol, wipe the Paper Separator Roll clean of dirt.

(4) Replacing of the Separator Roll Assy

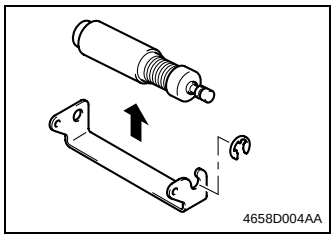


1. Slide out the drawer.
2. Remove two screws and the Paper Separator Roll mounting bracket assy and reinforcement plate.

NOTES
- *Receive by hand the reinforcement plate that will come off position when the screws are removed.*
- *When reinstalling the reinforcement plate, make sure that it is doweled into position.*

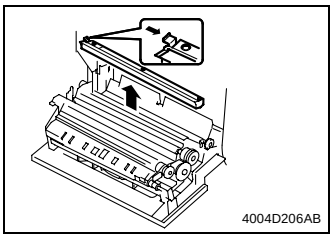


3. Take off the rubber stopper, shaft, spring, and guide plate to remove the Paper Separator Roll fixing bracket assy.

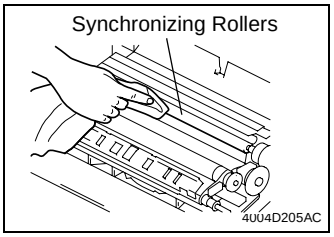


4. Snap off one E-ring and the Paper Separator Roll Assy.
5. Remove the Paper Take-Up Roll. [See (2) Replacement of the Paper Take-Up Roll.]
6. To reinstall, reverse the order of removal.
7. Select “Tech. Rep. Mode” → “Counter” → “Life” and clear the count of “1st.”

(5) Cleaning of the Synchronizing Rollers

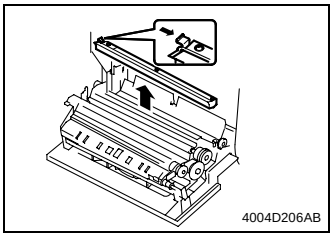


1. Open the Right Door.
2. Remove the Paper Dust Remover.

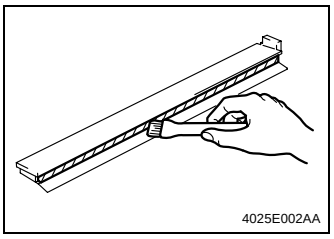


3. Using a soft cloth dampened with alcohol, wipe the Synchronizing Rollers clean of dirt.

(6) Cleaning of the Paper Dust Remover

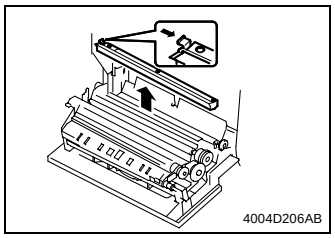


1. Open the Right Door.
2. Remove the Paper Dust Remover.



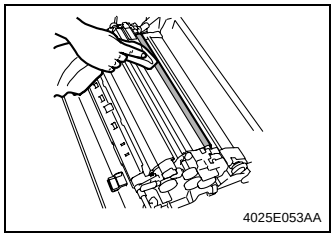
3. Using a brush, whisk dust off the Paper Dust Remover.

(7) Replacing of the Paper Dust Remover



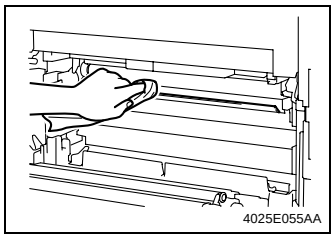
1. Open the Right Door.
2. Pushing the hook with a blue label inward, remove the Paper Dust Remover.
3. Remove the Ozone Filter. [See (17) Replacement of the Ozone Filter.]
4. To reinstall, reverse the order of removal.
5. Select “Tech. Rep. Mode” →”Counter” →”Life” and clear the count of “Paper Powder Filter/ Ozone Filter.”

(8) Cleaning of the Transport Roller



1. Open the Right Door.
2. Using a soft cloth dampened with alcohol, wipe the Transport Roller clean of dirt.

(9) Cleaning of the 2nd Image Transfer Entrance Upper Guide

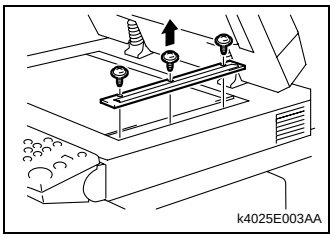


1. Open the Right Door.
2. Open the Left Door.
3. Remove the Waste Toner Bottle.
4. Slide the Transfer Belt Unit out halfway.
5. Wipe the 2nd Image Transfer Entrance Upper Guide clean of dirt using a soft cloth.

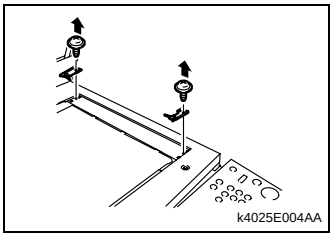
NOTE

- *When cleaning, use care not to be hurt by the leading edge of the guide that is sharp.*

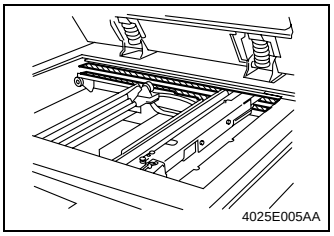
(10) Cleaning of the Scanner Rails



1. Remove three screws and the IR Right Cover.



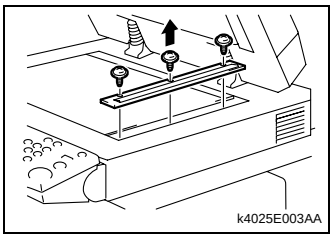
2. Remove one screw each and the Original Glass fixing bracket (at the front and rear).
3. Remove the Original Glass.



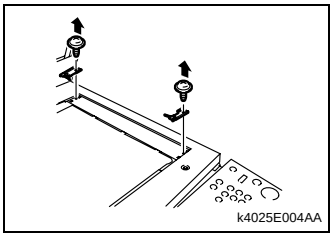
4. Using a soft cloth dampened with alcohol, wipe the Scanner Rails clean of dirt.

NOTE
- *Apply lubricant after cleaning.*

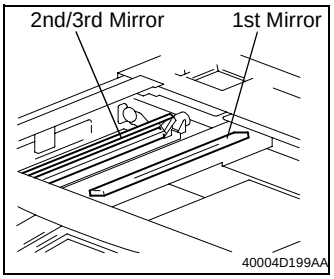
(11) Cleaning of the Mirrors (1st/2nd/3rd)



1. Remove three screws and the IR Right Cover.

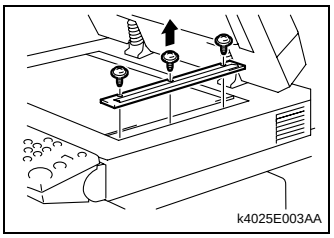


2. Remove one screw each and the Original Glass fixing bracket (at the front and rear).
3. Remove the Original Glass.

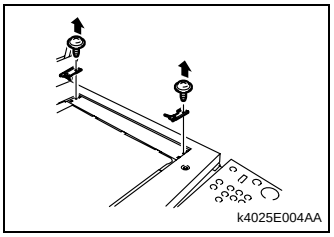


4. Using a soft cloth dampened with alcohol, wipe mirrors clean of dirt.

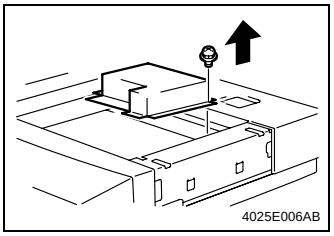
(12) Cleaning of the Lens



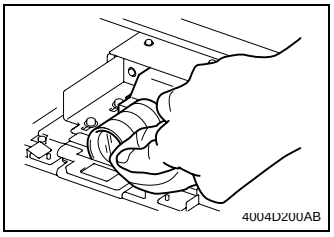
1. Remove three screws and the IR Right Cover.



2. Remove one screw each and the Original Glass fixing bracket (at the front and rear).
3. Remove the Original Glass.

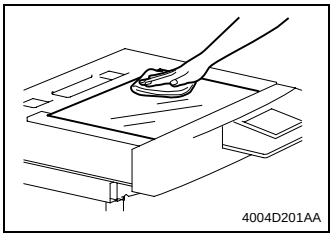


4. Remove fourteen screws and the optical cover.



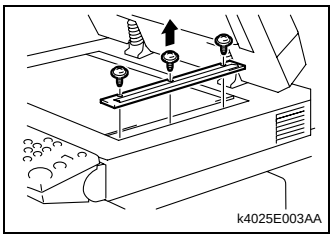
5. Using a soft cloth dampened with alcohol, wipe the Lens clean of dirt.

(13) Cleaning of the Original Glass

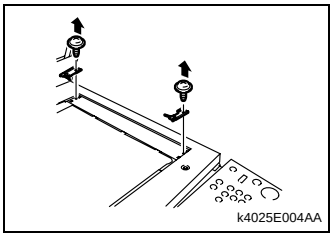


1. Using a soft cloth dampened with alcohol, wipe the Original Glass clean of dirt.

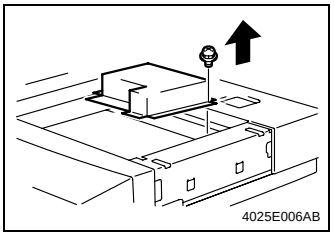
(14) Cleaning of the CCD Sensor



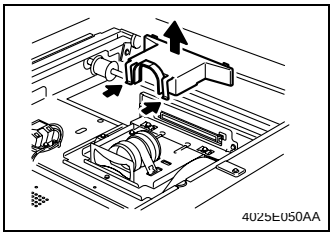
1. Remove three screws and the IR Right Cover.



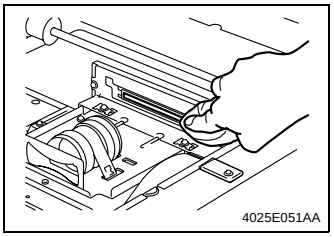
2. Remove one screw each and the Original Glass fixing bracket (at the front and rear).
3. Remove the Original Glass.



4. Remove fourteen screws and the optical cover.



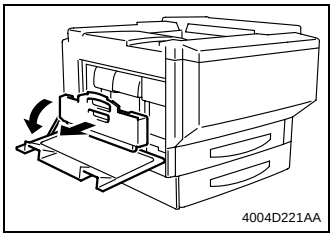
5. .Remove two hooks and the lens cover.



6. Using a soft cloth dampened with alcohol, wipe the CCD Sensor clean of dirt.

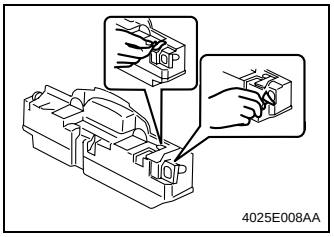
(15) Replacing the Waste Toner Bottle

NOTES
- *If the Paper exit system option is installed, remove if from the main unit before replacing the waste toner bottle.*
- *When removing the paper exit system option, support the horizontal transport unit with your hand to prevent if from dropping.*

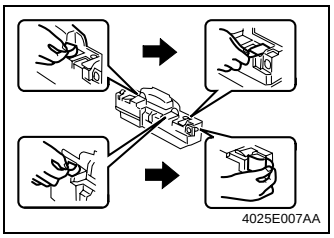


1. Turn OFF the main switch.
2. Open the Left Door.
3. Grasp the handle, and remove the waste toner bottle.

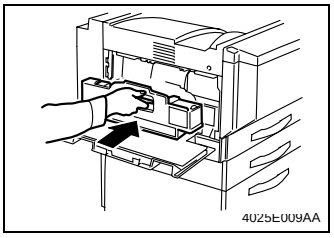
NOTES
- *Raise the waste toner bottle gently before removing it.*
- *If scattered toner has accumulated in the vicinity of the toner collecting port, do not tilt the waste toner bottle when removing it.*
- *Do not leave the waste toner bottle in a tilted condition after removing it.*



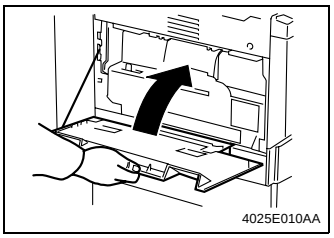
4. Remove the seals from the two toner collecting ports.



5. Peel off the seals for blocking the two toner collecting ports, and place them over the toner collecting ports.

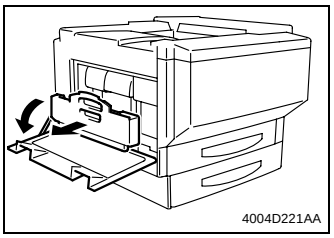


6. Clean the surface around the waste toner collecting port. [See (16) Cleaning of the Area around the Waste Toner Collecting Port.]
7. Remove the waste toner bottle from its box, and remove the packing material.
8. Grasp the handle, and set the waste toner bottle in place.

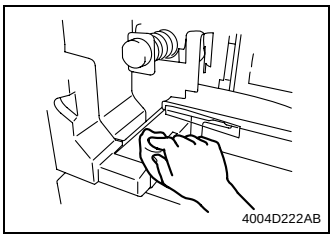


9. Close the Left Door.

(16) Cleaning of the Area around the Waste Toner Collecting Port

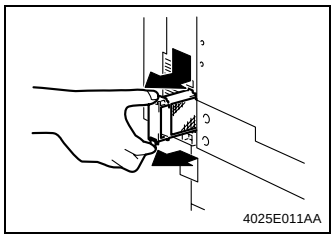


1. Open the Rear Left Cover.
2. Remove the Waste Toner Bottle.



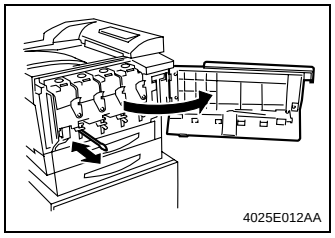
3. Wipe the areas around the Waste Toner Collecting Port clean of spilled toner and dirt using a soft cloth dampened with water or alcohol.

(17) Replacing Ozone Filter



1. Holding onto the hook, remove the Ozone Filter.
2. Remove the Paper Dust Remover. [See (7) Replacement of the Paper Dust Remover.]
3. To reinstall, reverse the order of removal.
4. Select “Tech. Rep. Mode” → “Counter”→”Life” and clear the count of “Paper Powder Filter/ Ozone Filter.”

(18) Cleaning of the Comb Electrode



1. Open the Front Door.
2. Clean the Comb Electrode by moving the Comb Electrode Cleaning Lever to the front and rear three round trips.

NOTE

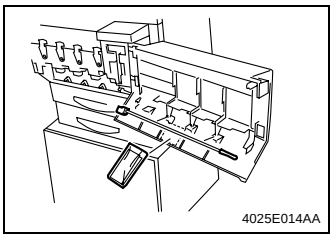
- *Move the Comb Electrode Cleaning Lever slowly forward and backward until it stops.*

(19) Cleaning LPH Assy

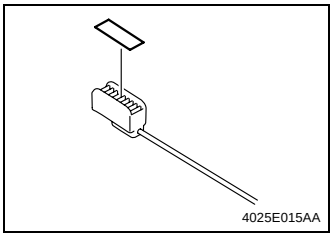
NOTE
- *After the IU has been slid out, be sure to place it in the aluminum pack for packing or wrap it in the light shielding cloth and store it in a dark place. Do not leave the IU to stand for a long time.*

1. Open the Front Door.
2. Slide out the IU (C/M/Y/Bk).

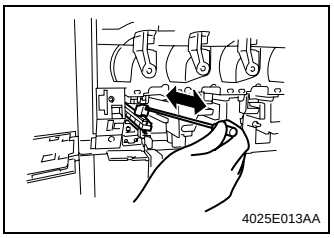
☞ E-22



3. Remove the LED Cleaning Jig and LED Cleaning Jig Pad.



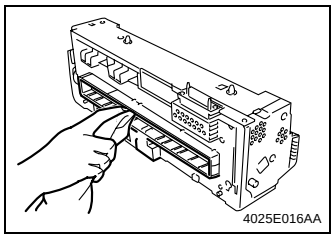
4. Affix the LED Cleaning Jig Pad to the LED Cleaning Jig.



5. Clean the LED of the LPH Assy by moving the LED Cleaning Jig three reciprocating motions.

NOTE
- *Use only the specified jig (LED Cleaning Jig) for cleaning.*

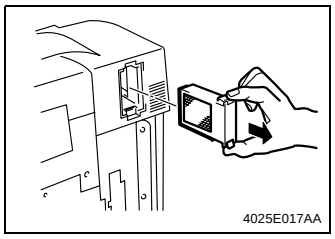
(20) Cleaning of the Fusing Entrance Guide Plate



1. Remove the Fusing Unit.
☞ E-26
2. Using a soft cloth or cotton swab dampened with alcohol, wipe clean the Fusing Entrance Guide Plate.

NOTES
- *Use care when cleaning the Fusing Entrance Guide Plate as it is easy to damage.*
- *Be careful that the Fusing Unit can be hot.*
- *Do not place the Fusing Unit on a workbench with its terminal down.*

(21) Replacement of the Deodorant Filter



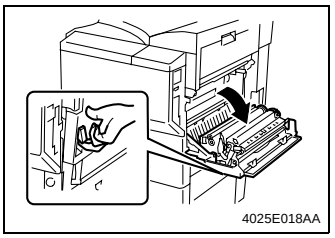
1. Holding onto the hook, take out the Deodorant Filter.

3. Replacing the Units

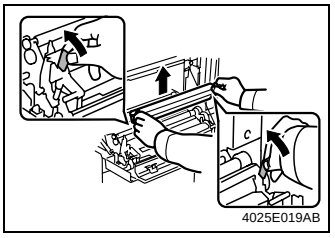
(1) Replacing the Image Transfer Roller Unit

Removal Procedure

NOTES
- *If the Paper exit system option is installed, remove if from the main unit before replacing the waste toner bottle.*
- *When removing the paper exit system option, support the horizontal transport unit with your hand to prevent if from dropping.*

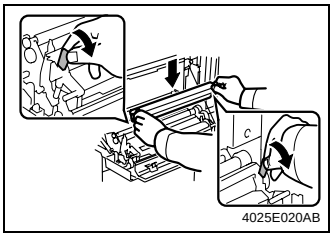


1. Turn OFF the main switch.
2. Open the Right Door.

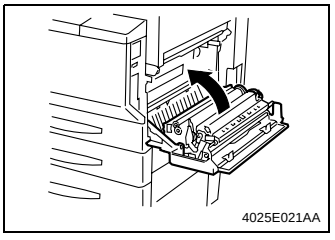


3. Unlock the blue lock levers (at two places).
4. Holding onto the blue lock levers (at two places), remove the Image Transfer Roller Unit.

Reinstallation Procedure



1. Holding onto the blue lock levers (at two places), mount the Image Transfer Roller Unit.
2. Lock the blue lock levers (at two places).



3. Close the Right Door.

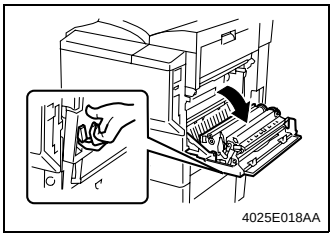
NOTE
- *Make sure that the door is locked in position both at front and rear.*

4. Turn ON the Power Switch.
5. Select “Tech. Rep. Mode” → “Counter” → “Life” and clear the count of “Transfer Roller Unit.”

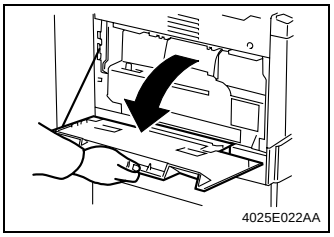
(2) Replacing the Image Transfer Belt Unit

Removal Procedure

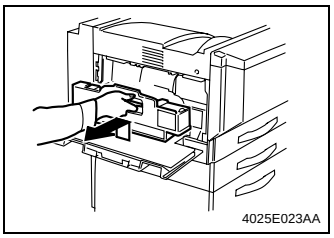
NOTES
- *If the Paper exit system option is installed, remove if from the main unit before replacing the waste toner bottle.*
- *When removing the paper exit system option, support the horizontal transport unit with your hand to prevent if from dropping.*



1. Turn OFF the main switch.
2. Open the Right Door.

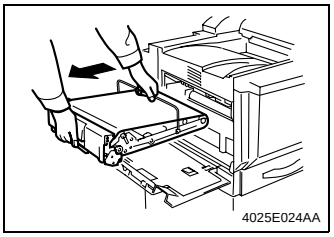


3. Open the Left Door.



4. Grasp the handle, and remove the waste toner bottle.

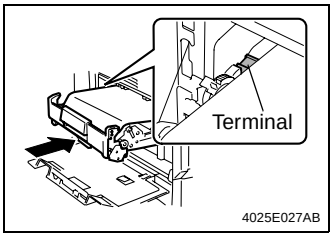
NOTES
- *Raise the waste toner bottle gently before removing it.*
- *If scattered toner has accumulated in the vicinity of the toner collecting port, do not tilt the waste toner bottle when removing it.*
- *Do not leave the waste toner bottle in a tilted condition after removing it.*



5. Pull out the Image Transfer Belt Unit.

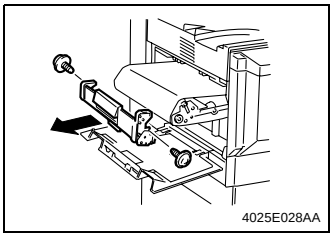
Reinstallation Procedure

NOTE
- *When installing the Transfer Belt Unit, use care not to touch the Transfer Film with hands. (Fingerprints on the Transfer Film result in image problems.)*

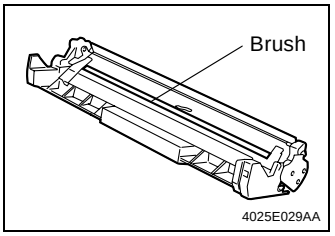


1. Insert the Transfer Belt Unit halfway up to the point shown on the left.

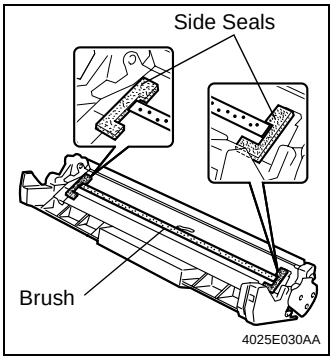
NOTES
- *Note the arrow label provided at the guide on the copier side when inserting the Transfer Belt Unit.*
- *Insert the Transfer Belt Unit until its terminal is stopped at the cutout in the guide on the copier side.*



2. Supporting the Transfer Cleaner Assy with a hand, remove two screws.
3. Remove the Transfer Cleaner Assy.
4. Remove protective paper taped to the Transfer Cleaner Assy.

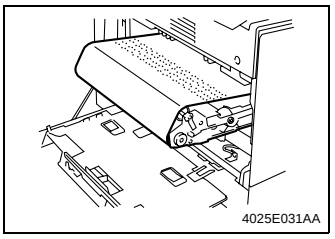


5. Turn over the Transfer Cleaner Assy so that the brush faces upward.



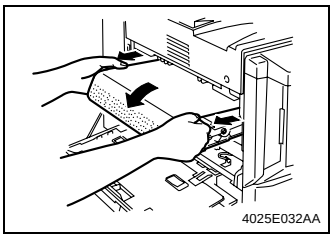
6. Uniformly apply the enclosed toner along the brush and on the side seals.

NOTE
- *Save a small amount of toner for use in the subsequent step.*
- *Apply toner directly to the top of the side seals. Otherwise, the side seals could be worn or a noise could be produced when the image transfer belt moves.*

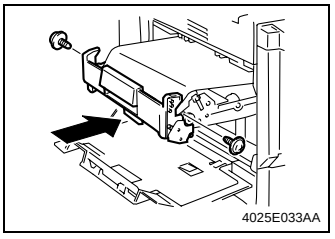


7. Place the remainder toner on the paper towel that comes with the Transfer Belt Unit and apply an even coat of toner on the Transfer Belt (up to 15 mm from both edges).

NOTE
- *The toner, even if there is still the remainder left, should not be used for the copier. It is different from what is used with the copier.*

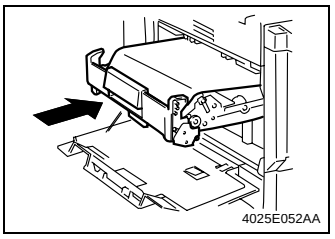


8. Holding onto both ends of the Transfer Belt, pull the Transfer Belt until the Blade of the Transfer Cleaner Assy contacts the location in the belt, to which toner has been applied.

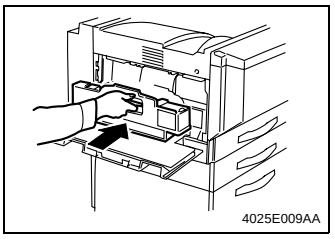


9. Fit bosses (at the front and rear) of the Transfer Cleaner Assy into the hooks (at the front and rear) of the Transfer Belt Unit.
10. Secure the Transfer Cleaner Assy to the Transfer Belt Unit using two screws.
11. Holding onto both ends of the Transfer Belt, turn the Transfer Belt one complete turn in the same direction as in step 8 and check the Blade for improper contact, failure to remove toner completely off, noise, and overload.

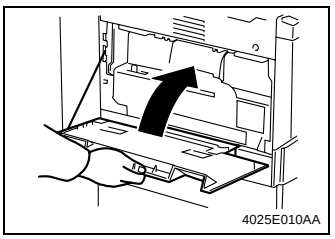
NOTES
- *If any faulty symptom is evident, apply toner to the Transfer Belt again.*
- *If the Blade fails to remove toner completely off the Transfer Belt, perform step 11 once again.*



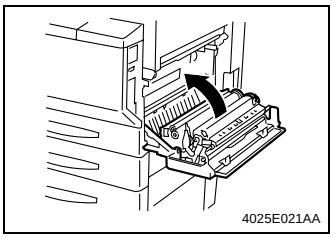
12. Insert the Image Transfer Belt Unit.



13. Hold the handle and install the Waste Toner Bottle in position.



14. Close the Left Door.



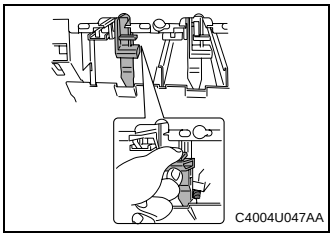
15. Close the Right Door.

NOTE
- *Make sure that the door is locked in position both at front and rear.*

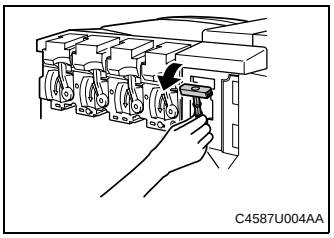
16. Turn ON the Power Switch.
17. Select “Tech. Rep. Mode” → “Gradation Adjust” and carry out Gradation Adjust.

(3) Replacing the Imaging Unit (C, M, Y, Bk)

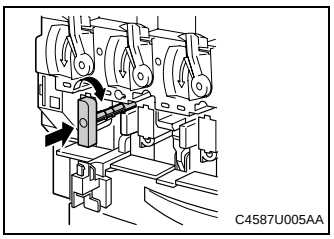
Removal Procedure
1. Take out the “Imaging Unit Pull-out Tray” from the packing box.
2. Turn OFF the Power Switch.
3. Unplug the power cord.
4. Open the Front Door.



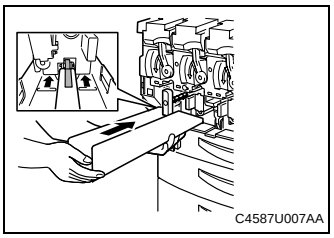
5. Release the lock lever of the Imaging Unit.


C4587U004AA

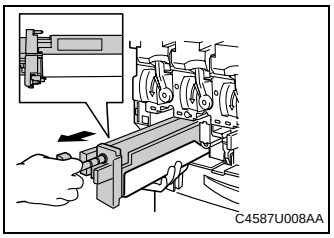
6. Remove the removal jig of the Imaging Unit from the main unit.


C4587U005AA

7. Set the removal jig of the Imaging Unit in place.
8. Slowly rotate the jig clock-wise until it is fixed.

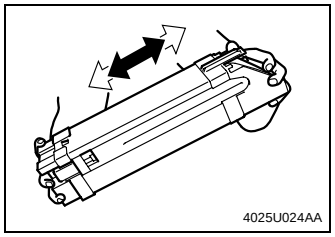

C4587U007AA

9. Position the Imaging Unit Pull-out Tray under the Imaging Unit and insert it all the way into position.


C4587U008AA

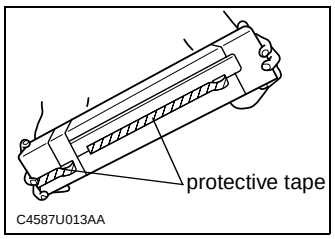
10. Supporting the Imaging Unit Pull-out Tray with a hand, hold the Imaging Unit Pull-out Jig and gently slide out the Imaging Unit. Then, place the Imaging Unit on the floor.
11. Remove the Imaging Unit Pull-out Jig and return it to the copier.

Reinstallation Procedure


4025U024AA

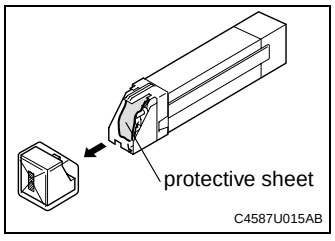
1. Remove the Imaging Unit from its aluminum pack.
2. Tilt the Imaging Unit to the left and shake it a small stroke in the tilt direction twice. Then, tilt it to the right and shake it a small stroke in the tilt direction twice.

NOTES
- *Since the Imaging Unit is highly susceptible to light, keep it in its aluminum pack up to the very timing when it is installed.*
- *Carefully unseal the aluminum pack.*
- *If the Imaging Unit is packed in the aluminum pack again, complete the seal the pack using tape or other means.*



C4587U013AA

3. Remove the protective tapes

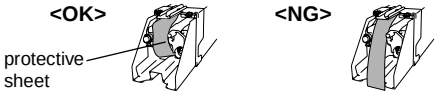


C4587U015AB

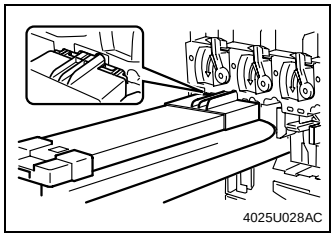
4. Remove the shipping cushion.

CAUTION
- *Make sure that the protective sheet is rolled up into the Imaging Unit as shown in the <OK>.*

<OK> **<NG>**

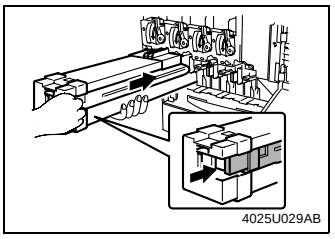


NOTE
- *When installing the Imaging Unit, ensure that the color of the mounting guide of the Imaging Unit is the same as the color of the label at the mounting position on the main unit.*


4025U028AC

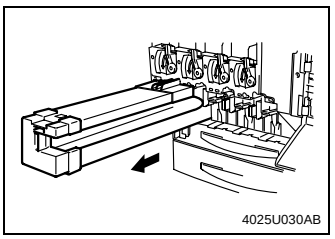
5. Keeping the Imaging Unit in a level position, insert the Imaging Unit into the mounting position all the way until it is stopped.

NOTE
- *Do not allow the Imaging Unit to be tilted when inserted, as a damaged PC Drum or LED Assy could result.*

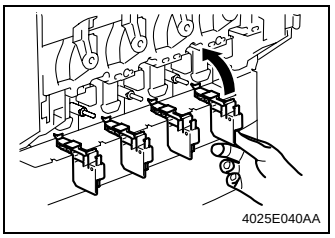

4025U029AB

6. Holding the underside of the Imaging Unit with your left hand, gently insert the Imaging Unit with your right hand.

NOTE
- *Insert the Imaging Unit until a click is heard.*


4025U030AB

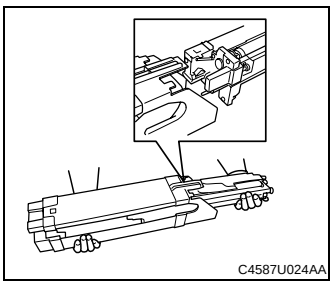
7. Remove the Imaging Unit Cover.
8. Check that the Imaging Unit has been inserted all the way in the copier.


4025E040AA

9. Lock the IU Lock Lever.

NOTE
- *Place the IU Lock Lever into the locked position until a click is heard.*

10. Close the Front Door.
11. Place the empty Imaging Unit Cover on the floor.
12. Take out a pair of gloves from the packing box and wear it.

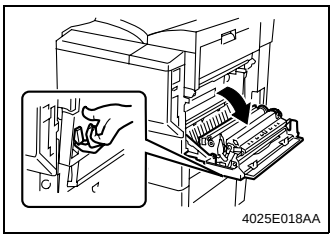

C4587U024AA

13. Insert the Imaging Unit which has been removed into the Imaging Unit Cover.
14. Place the Imaging Unit that has been inserted into the Imaging Unit Cover in the aluminum pack and place the pack in the packing box.
15. Place the Imaging Unit Pull-out Tray, gloves, and packing material in the packing box.
16. Plug in the power cord.
17. Turn ON the Power Switch.
18. Select “Tech. Rep. Mode” → “Gradation Adjust” and carry out Gradation Adjust.

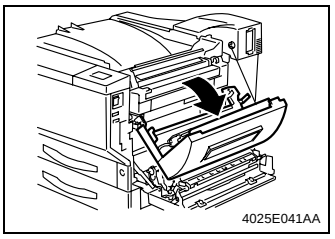
(4) Replacing the Fusing Unit

Removal Procedure

NOTE
- *Before replacing the Fusing Unit, ensure that it is not hot.*

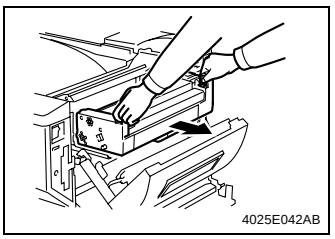


1. Turn OFF the main switch, then wait for about 20 minutes.
2. Open the Right Door.

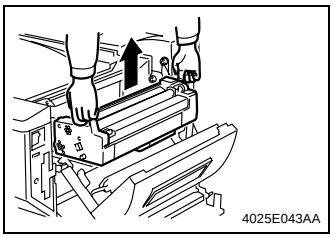


3. Open the Upper Right Door.

NOTE
- *When opening the Upper Right Door, be sure to support it with your hand until it is in the fully open position. If you remove your hand from the Upper Right Door, it may drop, and the resulting impact may cause the hinges to bend.*

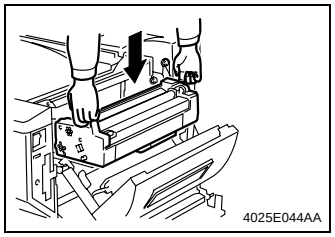


4. Hold the handles (at two places) and slide out the Fusing Unit.

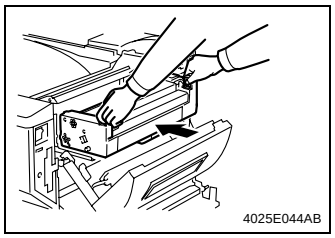


5. Hold the handles (at two places) and remove the Fusing Unit.

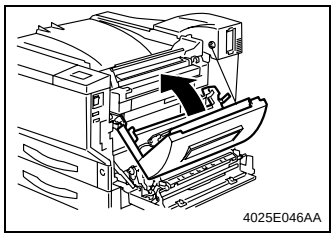
Reinstallation Procedure



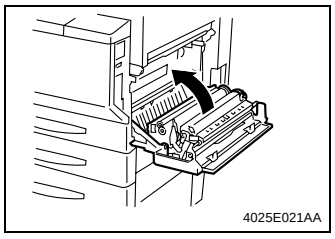
1. Hold the handles (at two places) and place the Fusing Unit in position.



2. Hold the handles (at two places) and push the Fusing Unit into position.



3. Close the Upper Right Door.



4. Close the Right Door.

NOTE

- *Ensure that both the front and rear sides are locked.*

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