CHAPTER 7:
PRINTER MAINTENANCE

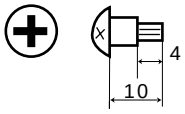
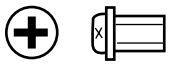
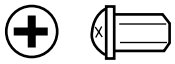
REPLACEMENT PROCEDURES FOR MAINTENANCE PARTS

Follow the procedures and cautions described below for the maintenance task.

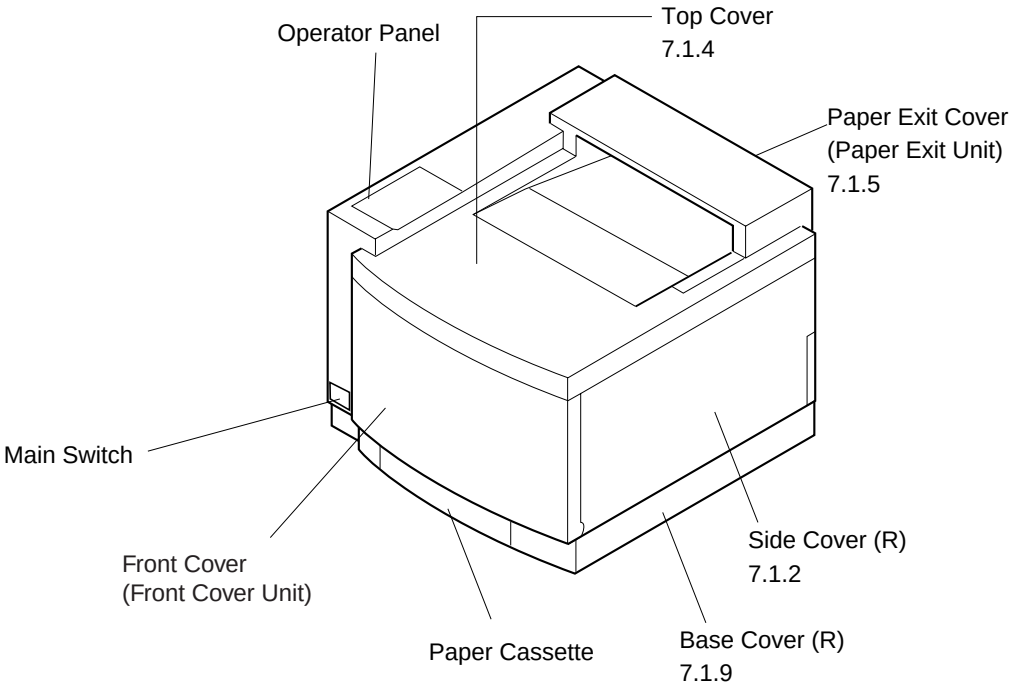
1. Do not perform any operation, disassembly, and modifications etc., that are not outlined in this Manual.
2. Turn the power OFF and unplug the power cable from the outlet prior to starting disassembly.
3. Prior to starting any work on this printer, read warnings related to "High Temperature", "High Voltage", and "Laser Radiation". make sure to read and understand the warnings and cautions in this Manual.
4. Properly recycle or dispose of the waste toneror toner modules. Never dump them together with flammable materials or throw them into the fire.
5. Disconnect the grounding wire when replacing or removing DC power supply unit. After completing the replacement work, confirm the grounding wire is properly installed.
6. Confirm the direction of parts and length of screws in replacement work of the maintenance parts. (See Table 7-1.)
7. Do not use any solvent such as alcohol for the maintenance of this printer.
8. Confirm all the parts and covers installed or assembled properly prior to starting the test run after replacement of the maintenance parts.

See Chapter 8 "Troubleshooting" and 9 "List of Maintenance Parts" for reference.

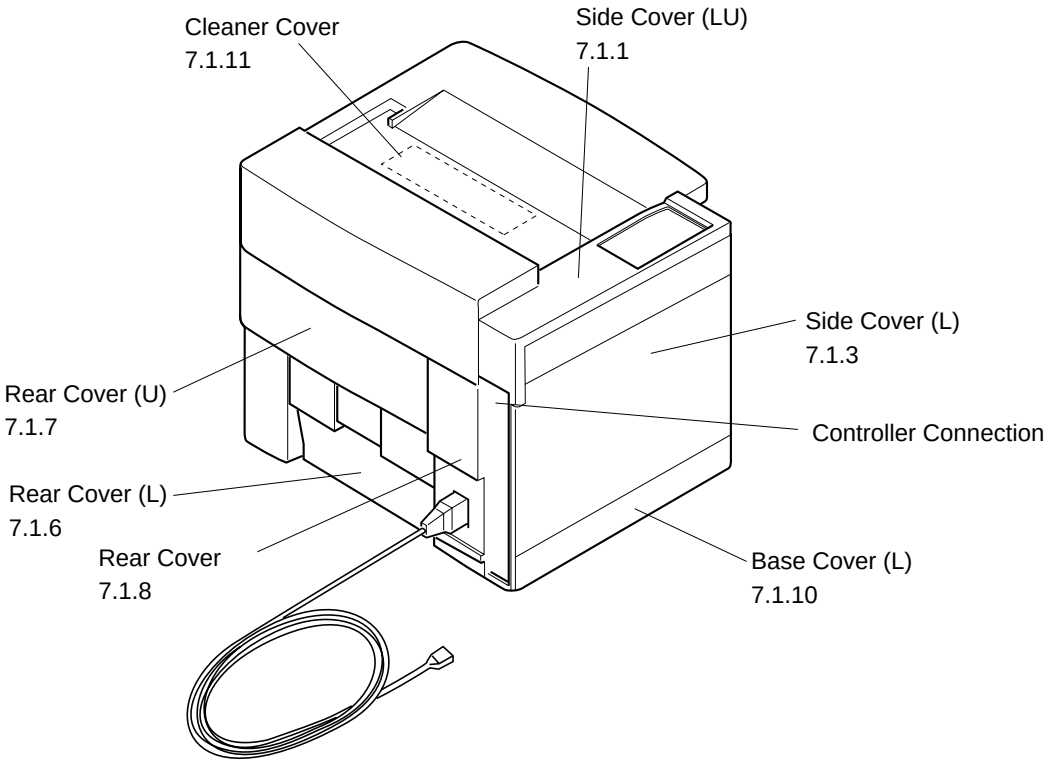
Table 0-1:

Class Code	Name of Screw	Size and Shape of Screw			Remarks
		M-Thread TS	Length	Sharp	
BT3X8	Cross recessed head tapping screw	T3	8mm		Used for installation of plastic parts
BT3X12		T3	10mm		
		T4	6mm		
BT4X8		T4	8mm		
BT4X10		T4	10mm		
ST3X6	sS tight screqw	ST	6mm		Used for installation of parts to steel plate.
M4X6	Cross recessed head tapping screw (pan Head)	M4	6mm		Used for flame and GND.
SP3	Unique srew for heater connector	M3	10mm		For fuser connector.
F4X6	Cross recessed head srew with flange	F4	6mm		For fuser unit.
FST3X10	Cross recessed head S tight screw with flange	FST	10mm		For fuser unit.
M2X10	Cross recessed head screw (Pan Head)	M2	10mm		For fuser unit.

7.1 Replacement of Covers



[Front View]



[Rear View]

7.1.1 Upper Side Cover (LU)

Tools

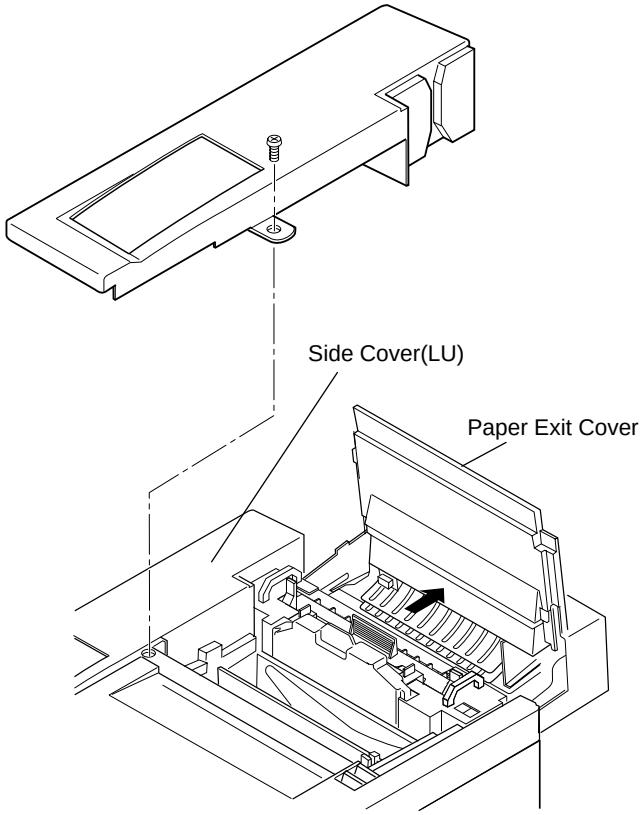
Phillips Screwdriver #2

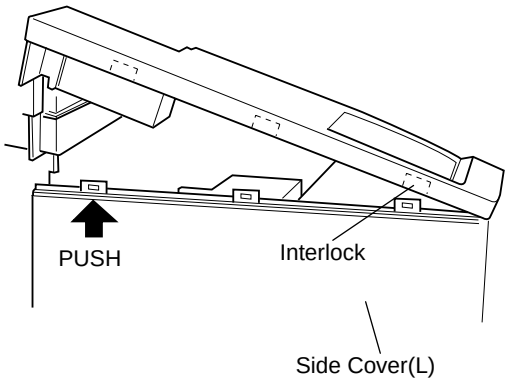
Disassembly Procedures

9. Open the paper exit unit.
10. Remove the set screw BT4 8 of side cover (LU).
11. Pressing the exterior of the side cover (L), unlock the interlock (three locations) with the side cover (LU).

Assembly Procedures

1. Prepare a new side cover (LU).
2. Assemble the side cover (LU) according to the reverse order of disassembling.





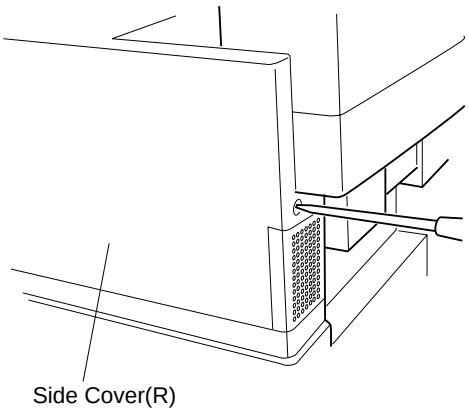
7.1.2 Side Cover (R)

Tools

Phillips Screwdriver #2

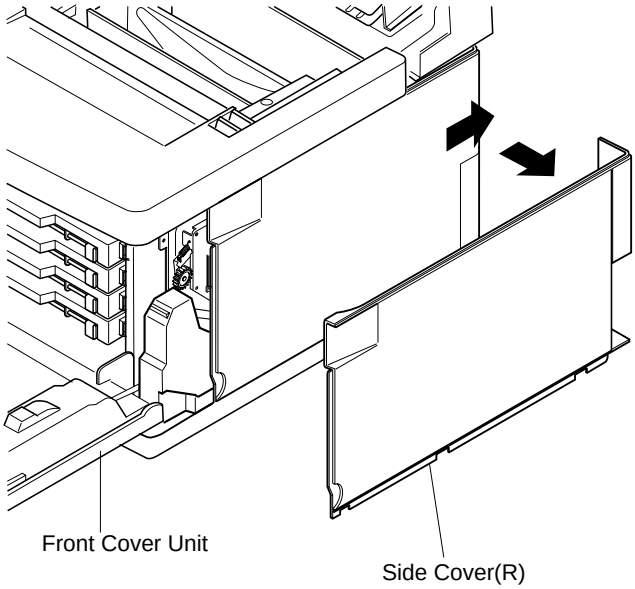
Disassembly Procedures

1. Open the front cover unit.
2. Remove the set screw BT4 X8 (1 pc.) of side cover (R) at the rear side. (Fig.7-3)
3. Slide the side cover (R) to the arrow direction. (Fig.7-4)
4. Remove the side cover (R).



Assembly Procedures

1. Prepare a new side cover (R).
2. Assemble the side cover (R) according to the reverse order of disassembling.



7.1.3 Side Cover (L)

Tools

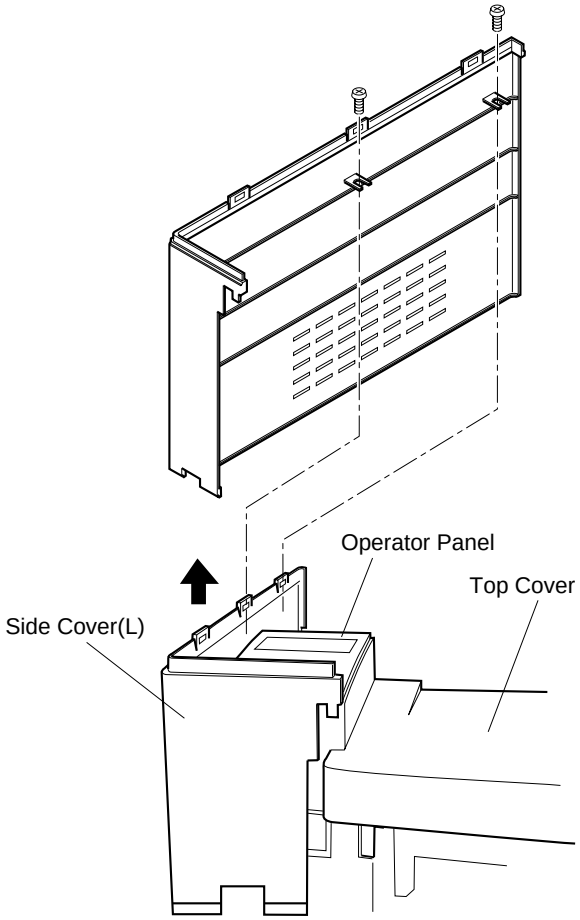
Phillips Screwdriver #2

Disassembly Procedures

1. Open the paper exit unit.
2. Remove the side cover (LU). (See the item 7.1.1.)
3. Remove the set screw BT4 8 (2 pcs.) of side cover (L).
4. Remove the side cover (L). (Slowly pull up the side cover (L), and unhook the hook from the top cover.)

Assembly Procedures

1. Prepare a new side cover (L).
2. Assemble the side cover (L) according to the reverse order of disassembling.



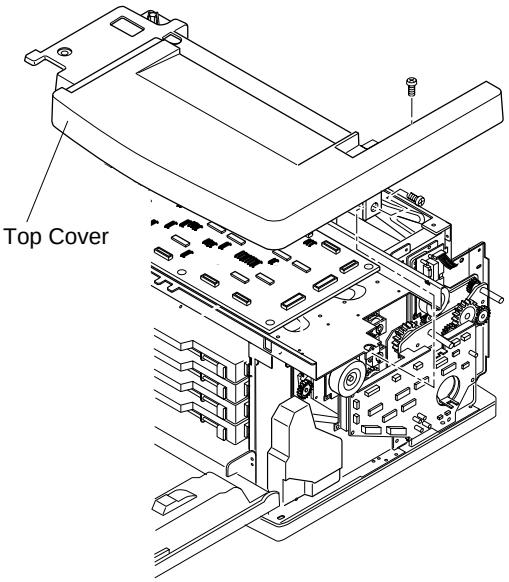
7.1.4 Top Cover

Tools

Phillips Screwdriver #2

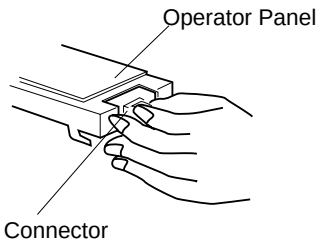
Disassembly Procedures

1. Open the paper exit unit and the front cover Unit.
2. Remove the side cover (LU). (See the item 7.1.1)
3. Remove the side cover (L) and side cover (R). (See the item 7.1.2 and 7.1.3.)
4. Remove the operator panel assembly. (One BT4 8 screw and one connector to be removed.)
5. Remove the set screw BT4 8 (3 pcs.) of top cover. (Top side 2 and Right side 1)
6. Slightly lift up the upper side of top cover.
7. Pull the top cover toward you, and unhook the hook from the frame.



Assembly Procedures

1. Prepare a new top cover.
2. Assemble the top cover according to the reverse order of disassembling.



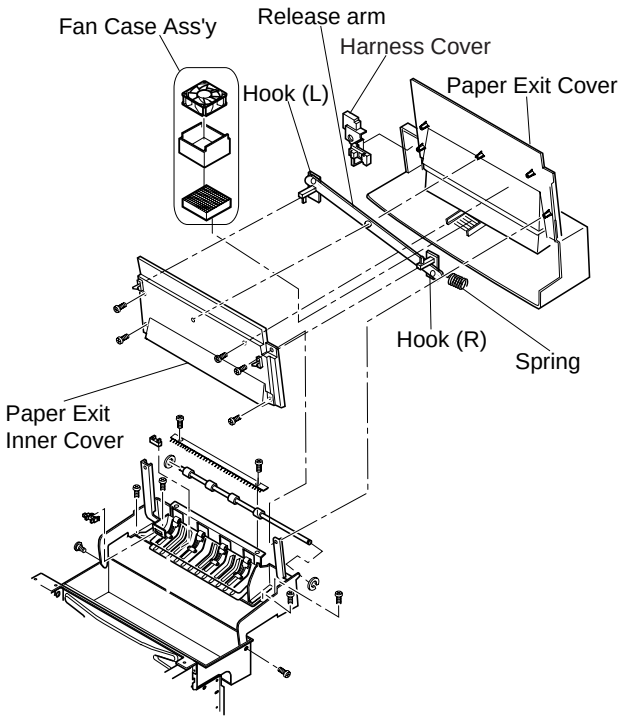
7.1.5 Paper Exit Cover

Tools

Phillips Screwdriver #1, #2

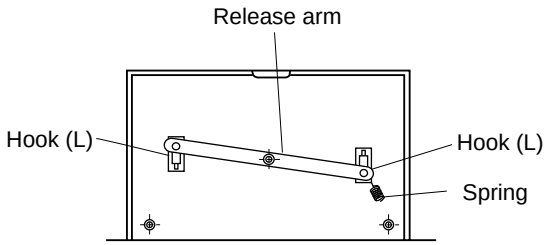
Disassembly Procedures

1. Remove the side cover (LU). (See the item 7.1.1)
2. Remove the side cover (L). (See the item 7.1.2)
3. Remove the side cover (R). (See the item 7.1.3)
4. Remove the top cover. (See the item 7.1.4)
5. Remove the Shield Cover A assembly. (See the item 7.2.1)
6. Remove the set screw (2 pcs.) of paper exit unit's shaft.
7. Remove the paper exit inner cover by removing the set screws BT3 8 (4 pcs.), release arm, hook (R) & (L) and spring.
8. Unscrew the set screw (ST3X6), and then, remove the harness cover.
9. Remove the fan case assembly.
10. Remove the set screws BT3 8 (4 pcs.) of paper exit guide unit.
11. Remove the paper exit guide unit from the cover.



Assembly Procedures

1. Prepare a new paper exit cover.
2. Assemble the release arm, hook (R) & (L), and spring as shown in Fig.7-5-b.
3. Assemble according to the reverse order of disassembling.



7.1.6 Rear Cover (L) (Transfer Unit Cover)

Tools

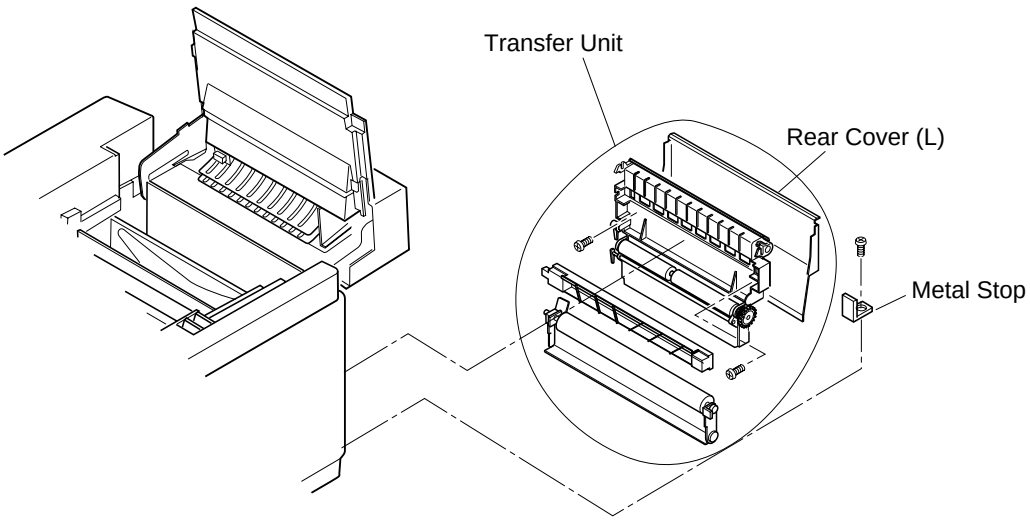
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Open the transfer unit.
2. Remove the screw ST3 6 (1 pc.) from the stop holding the transfer unit to the frame.
3. Remove the transfer unit.
4. Remove the set screw BT3 10 (4 pcs.) of rear cover.
5. Remove the rear cover (L) from the transfer unit.

Assembly Procedures

1. Prepare a new rear cover (L).
2. Install the rear cover to the transfer unit.
3. Assemble according to the reverse order of disassembling.



7.1.7 Rear Cover (U)

Tools

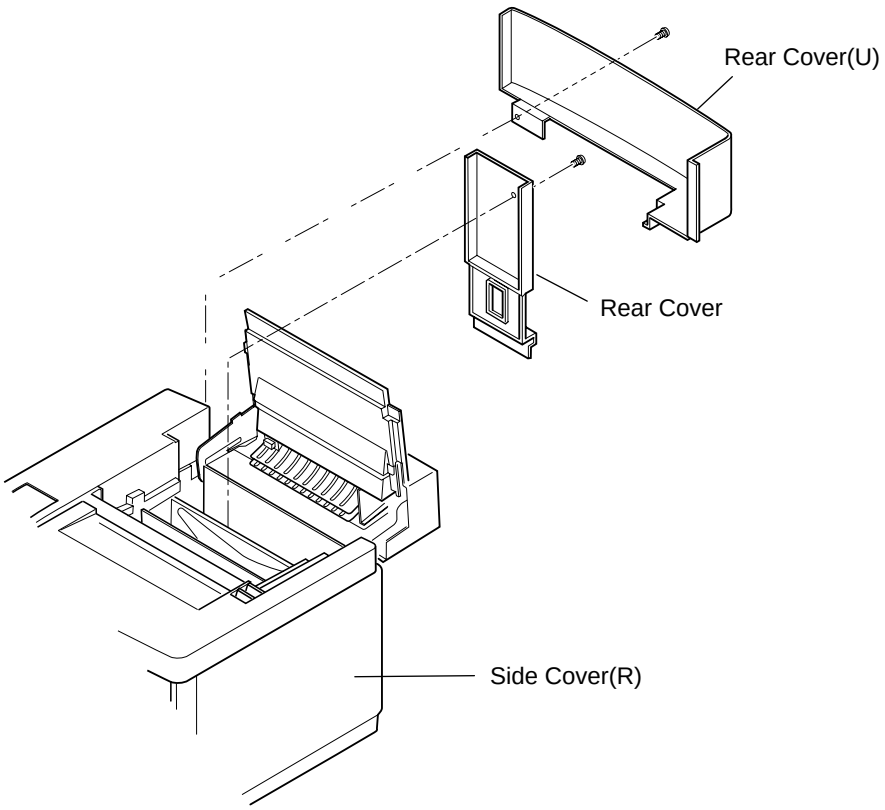
Phillips Screwdriver #2

Disassembly Procedures

1. Open the Transfer Unit.
2. Unplug the power supply cable from the inlet.
3. Remove the Rear cover. (See the item 7.1.8)
4. Remove the set screw BT4 6 (1 pc.) of rear cover (U).
5. Remove the rear cover (U).

Assembly Procedures

1. Assemble the rear cover (U) according to the reverse sequence of disassembling.



7.1.8 Rear Cover

Tools

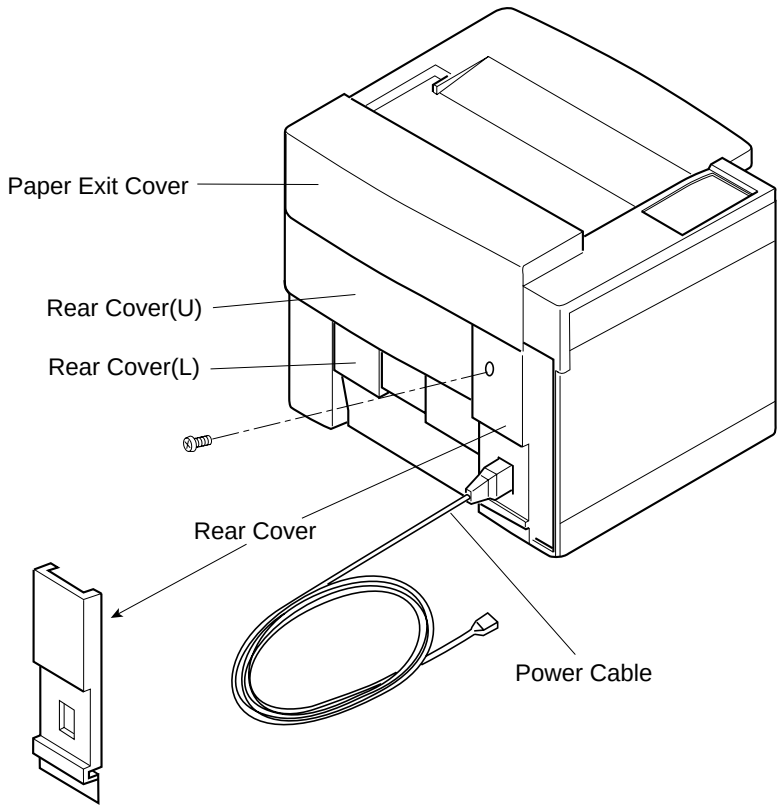
Phillips Screwdriver #2

Disassembly Procedures

1. Unplug the power cable from the printer.
2. Remove the set screw BT4 8 (1 pc.) of rear cover.
3. Remove the rear cover.

Assembly Procedures

1. Install a new rear cover.
2. Plug the power cable into the printer.



7.1.9 Base Cover (R)

Tools

Phillips Screwdriver #2

Disassembly Procedures

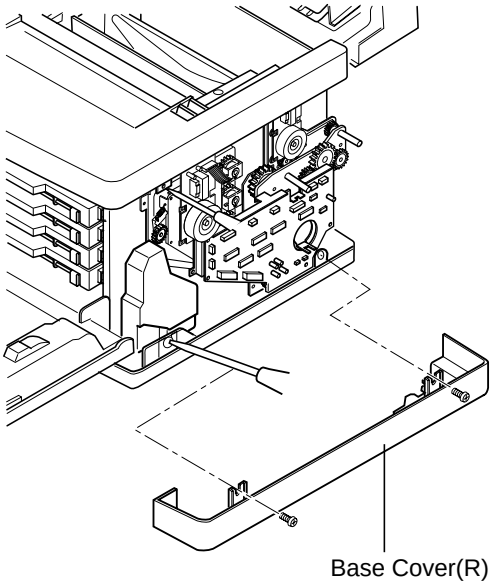
1. Remove the side cover (R). (See the item 7.1.3)
2. Remove the set screw BT4 8 (2 pcs.) of base cover (R).
3. Remove the base cover (R) from the base.

Assembly Procedures

1. Prepare a new base cover (R).
2. Assemble the base cover (R) according to the reverse order of disassembling.

Caution! When assembling the base cover, insert the leading edge of base cover (R) into the hook provided at the bottom (left and right) of the base plate.

Have the projecting part of base cover (R) meet the hole of base plate bottom.



7.1.10 Base Cover (L)

Tools

Phillips Screwdriver #2

Disassembly Procedures

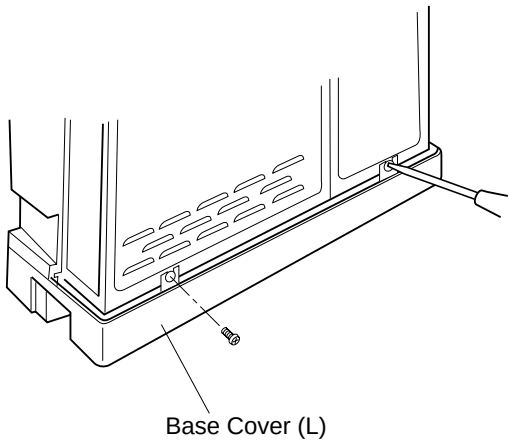
1. Remove the side cover (L). (See the item 7.1.2)
2. Remove the set screw TS4 8 (2 pcs.) of base cover (L).
3. Remove the base cover (L) from the base.

Assembly Procedures

1. Prepare a new base cover (L).
2. Assemble the base cover (L) according to the reverse order of disassembling.

Caution! When assembling the base cover, insert the leading edge of base cover (L) into the hook provided at the bottom (left and right) of the base plate.

Have the projecting part of base cover (L) meet the hole of base plate bottom.



7.1.11 Cleaner Cover

Tools

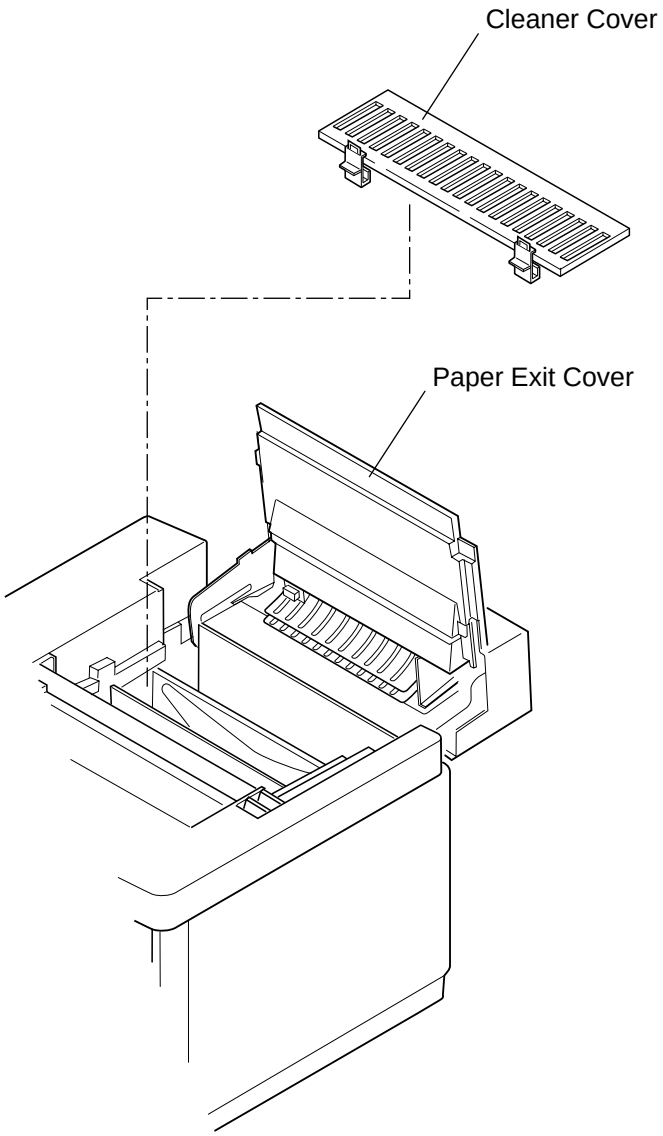
No tools are required.

Disassembly Procedures

1. Open the paper exit cover.
2. Holding the ears, remove the cleaner cover.

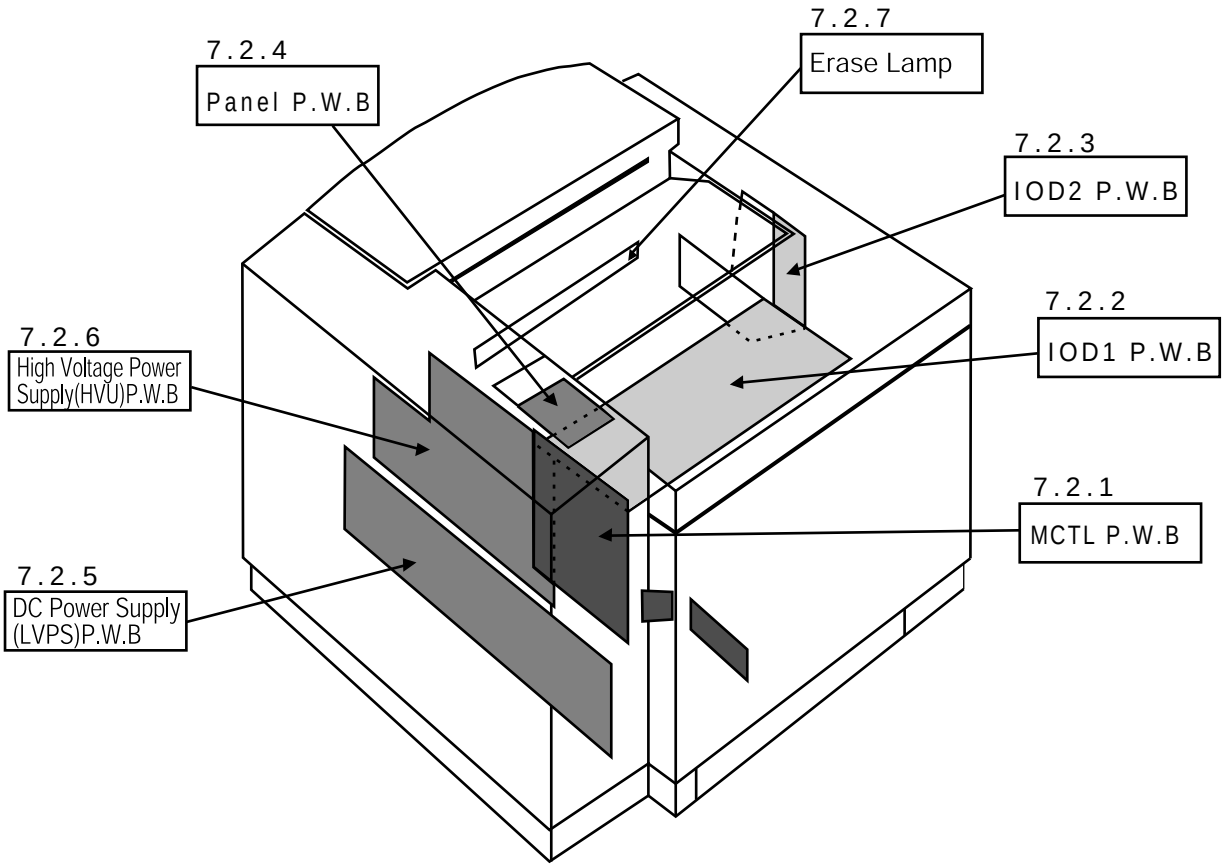
Assembly Procedures

1. Install a new cleaner cover.
2. Close the paper exit cover.



7.2 Replacement of Circut Cards

[Layout of Circut Cards]



7.2.1 MCTL Circut Card.

Tools

Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the side cover (L). (See the item 7.1.2)
2. Remove the top cover. (See the item 7.1.4)
3. Remove the set screw ST3 6 (3 pcs.) of shield cover 'A'.
4. Remove the shield cover 'A'.
5. Remove the set screw ST3 6 (3 pcs.) of shield (upper).
6. Remove the shield (upper).
7. Remove the set screw ST3 6 (1 pc.) of shield cover 'B'.
8. Disconnect all the harness connectors (5 pcs.) connected with the MCTL.
9. Remove the set screw ST3 6 (4 pcs.) of MCTL.
10. Remove the MCTL.

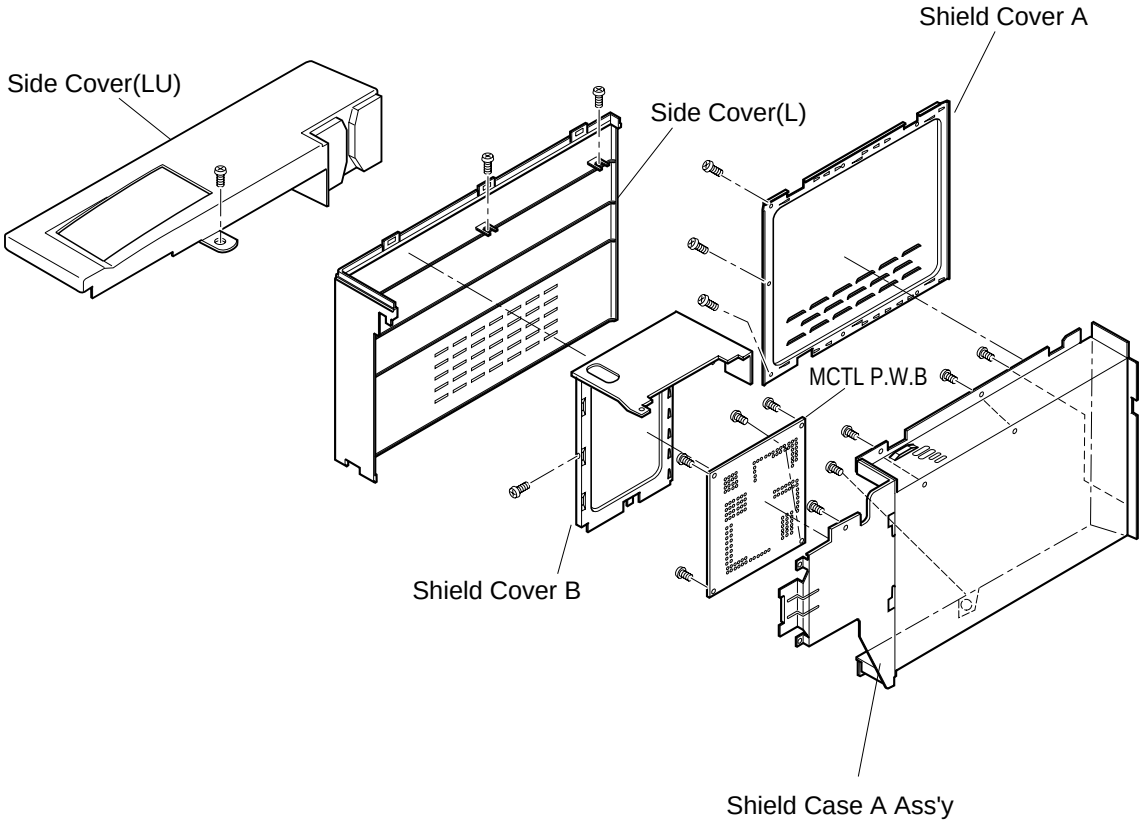
Assembly Procedures

1. Assemble a new MCTL Circut Card.
2. After above assembling, follow the reverse order of above disassembling for set-up.
3. Upon completion of above set-up, connect the power supply cable.
4. Turn on the power switch of the printer.
5. Execute the RAM clear in Service Mode.
6. Input content of RAM before replacement in Service Mode. (See the item 6.5.2.)
7. Confirm the operation and print quality by implementing the test print.

Caution! Read the information of internal counter prior to replacing the MCTL Circut Card.

Use proper grounding procedures to prevent electrostatic discharge when removing or installing the MCTL circut board.

Ensure that the firmware revision number on the new card is current if not ensure that you flash update the firmware for properoperation of the printer.


Shield Cover A
Side Cover(LU)
Side Cover(L)
MCTL P.W.B
Shield Cover B
Shield Case A Ass'y

7.2.2 IOD1 Circut Card.

Tools

Phillips Screwdriver #1, #2

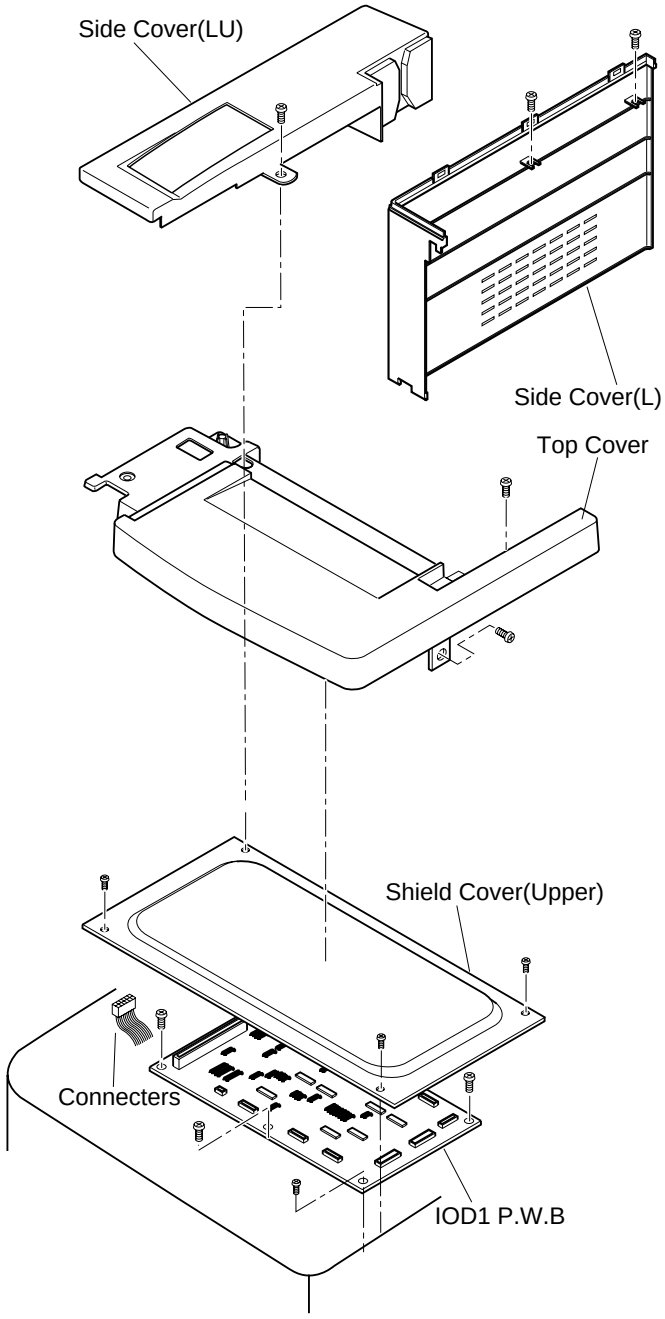
Disassembly Procedures

1. Remove the side cover (LU). (See the item 7.1.1.)
2. Remove the top cover. (See the item 7.1.4.)
3. Remove the set screw ST3 6 (3 pcs.) of shield (upper).
4. Remove the shield (upper).
5. Disconnect all the harness connectors (4 pcs.) connected with the IOD1 Circut Card.
6. Remove the set screw ST3 6 (6 pcs.) of IOD1 Circut Card.
7. Remove the IOD1 Circut Card.

Assembly Procedures

1. Assemble a new IOD1 Circut Card.
2. After above assembling, follow the reverse order of above disassembling for set-up.
3. Upon completion of above set-up, connect the power supply cable.
4. Turn on the power switch of the printer.
5. Execute the test print in Service Mode.
6. Confirm the operation and print quality of printer.

Caution! Use proper grounding procedures to prevent electrostatic discharge when removing or installing the IOD1 circut board.



7.2.3 IOD2 Circut Card. (with the base)

Tools

Phillips Screwdriver #1, #2

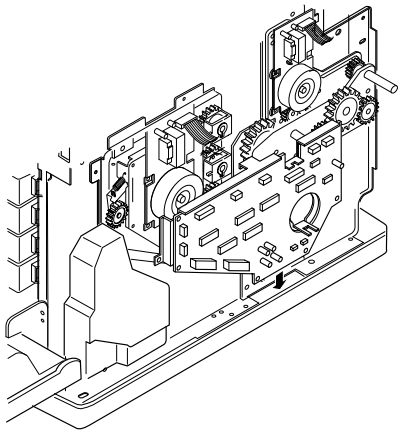
Slotted Screwdriver #1

Disassembly Procedures

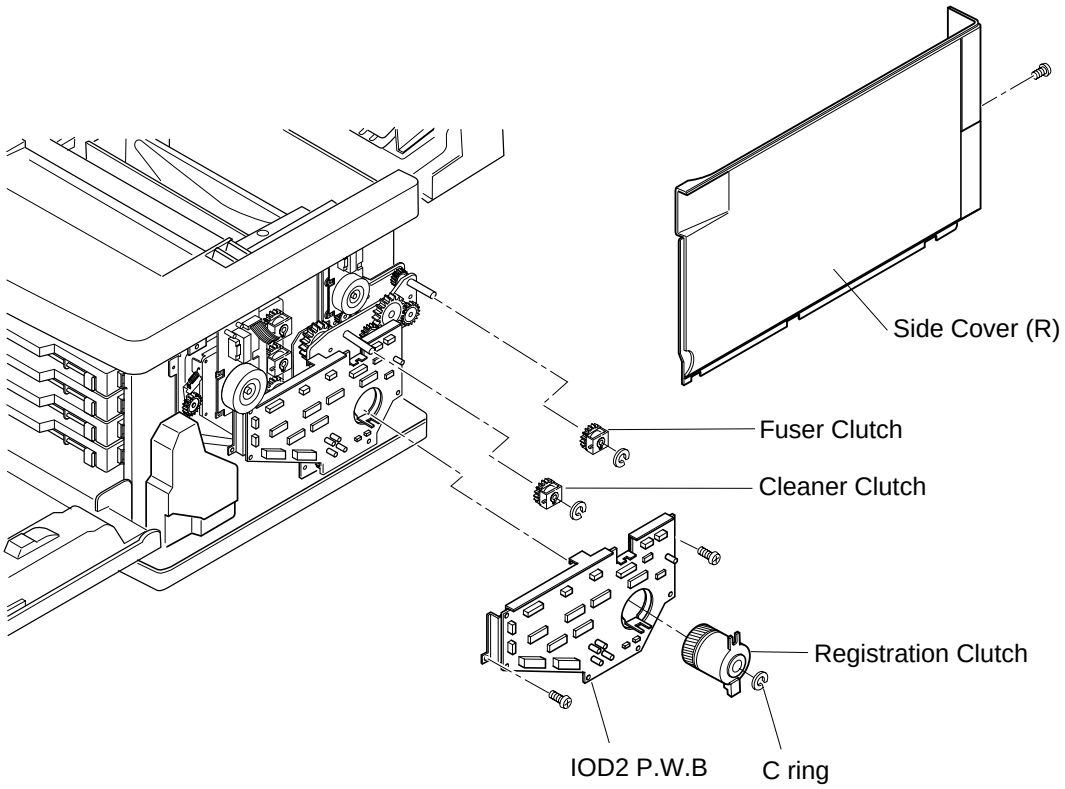
1. Remove the side cover (R). (See the item 7.1.3.)
2. Disconnect all the harness connectors (15 pcs.) connected with the IOD2 Circut Card.
3. Remove the C ring of registration clutch, cleaner clutch, and fuser clutch.
4. Remove all the clutches from the shaft.
5. Remove the set screw ST3 6 (2 pcs.) of IOD2 Circut Card base.
6. Remove the IOD2 Circut Card (with the base) from the main body.

Assembly Procedures

1. Assemble a new IOD2 Circut Card.
2. Having the recess of Circut Card. base meet the stopper ofpaper feeding clutch, install IOD2 Circut Card.
3. After above assembling, follow the reverse order of above disassembling for set-up.
4. Upon completion of above set-up, connect the power supply cable.
5. Turn on the power switch of the printer.
6. Execute the test print in Service Mode.
7. Confirm the operation and print quality of printer.



Caution! When replacing the IOD1 Circut Card, pay a good attention so that no damage is caused due to electrostatic discharge.


Side Cover (R)
Fuser Clutch
Cleaner Clutch
Registration Clutch
IOD2 P.W.B
C ring

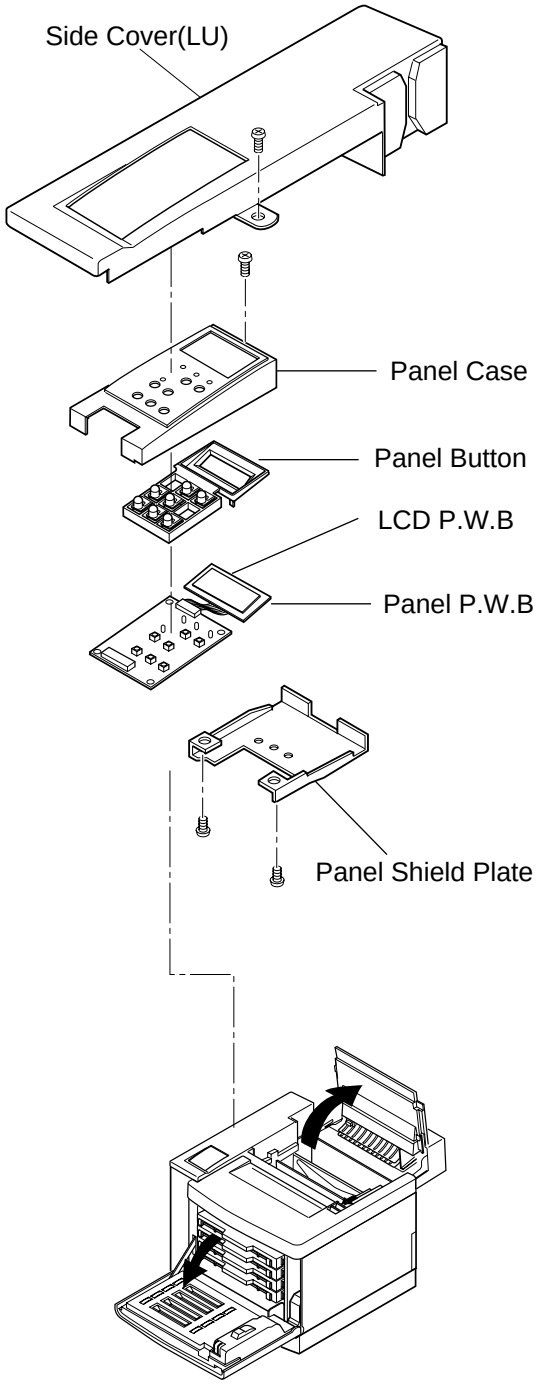
7.2.4 Panel Circut Card. (LCD inclusive)

Tools

Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the side cover (LU). (See the item 7.1.1.)
2. Remove the set screw BT4 10 (1 pc.) of the panel case assembly.
3. Remove the set screw BT3 8 (4 pcs.) of panel Circut Card and LCD from the panel case assembly.



Assembly Procedures

1. Assemble a new panel Circut Card. (LCD inclusive) to the panel case.
2. Install the panel case to the top cover and connect the connector.
3. Upon completion of above installation, connect the power supply cable.
4. Turn on the power switch of the printer.
5. Execute the test print in Service Mode.
6. Confirm the panel switch and indicator.

7.2.5 Power Supply Unit

Tools

Phillips Screwdriver

Slotted Screwdriver

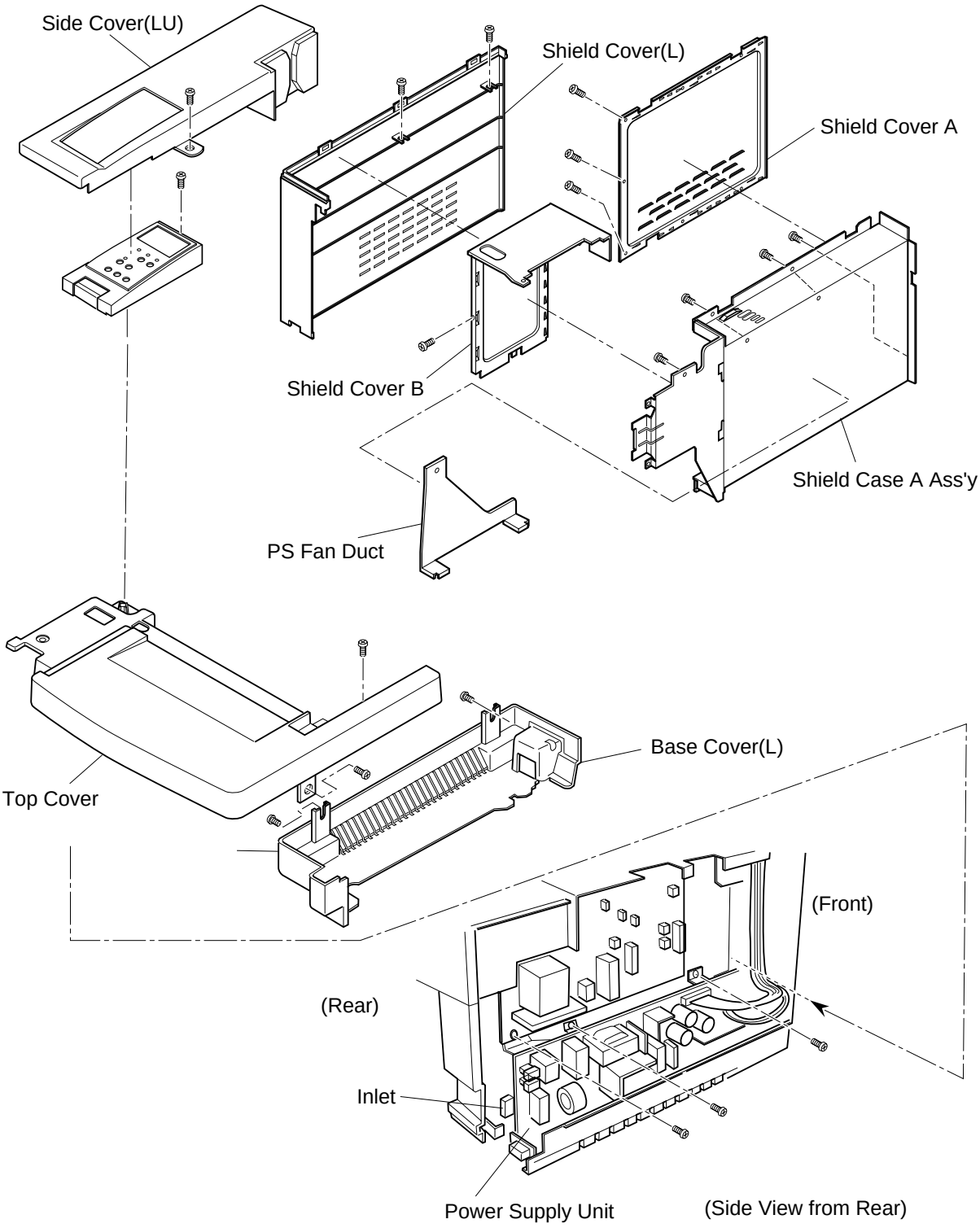
Disassembly Procedures

1. Remove the side cover (LU). (See the item 7.1.1.)
2. Remove the side cover (L). (See the item 7.1.2.)
3. Remove the shield cover (upper). (See the item 7.2.1.)
4. Remove the shield cover A.(See the item 7.2.1.)
5. Remove the shield cover B.(See the item 7.2.1.)
6. Disconnect all the harness connectors (5 pcs.) connected to the MCTL Circut Card.
7. Remove the set screw ST3 6 (2 pcs.) of control fan assembly. (See the item 7.3.4.)
8. Remove I/F Circut Card guide rail (upper).
9. Remove the set screw ST3 6 (5 pcs.) of shield case 'A' assembly.
10. Remove the set screw BT4 10 (2 pcs.) of base cover (R).
11. Remove the base cover (R).
12. Remove the fan duct of power supply.
13. Disconnect all the harness connectors connected to the power supply unit.
14. Remove the set screw ST3 6 (2 pcs.) of power supply switch from the switch base.
15. Remove the metal fixture for switch.
16. Remove the set screw ST3 6 (2 pcs.) of power supply switch from the switch base.
17. Remove the rear cover. (See the item 7.1.8.)
18. Remove the inlet from the frame.
19. Remove the set screw M4 6 (1 pc.) with spring washer of grounding harness.
20. Remove the set screw ST3 6 (3 pcs.) of power supply unit.
21. Remove the power supply unit.

Assembly Procedures

1. Install a new power supply unit. When installing, have a lower hole of the power supply unit meet a projection of the base.
2. After installing the new power supply unit, follow exactly the reverse order of disassembly procedures.
3. Upon completion of the installation, reconfirm the earthing wires are provided to the frame.
4. Connect the power supply cable.
5. Turn the power supply switch ON.
6. Execute the test print in Service Mode to confirm the operation and print quality.

WARNING! Grounding wire is very important to he safety of users. Upon removal of the power supply unit, confirm that the grounding wires (green and yellow color) is securely connected.


Side Cover(LU)
Shield Cover(L)
Shield Cover A
Shield Cover B
Shield Case A Ass'y
PS Fan Duct
Top Cover
Base Cover(L)
(Front)
(Rear)
Inlet
Power Supply Unit
(Side View from Rear)

7.2.6 High Voltage Unit

Tools

Phillips Screwdriver #1, #2

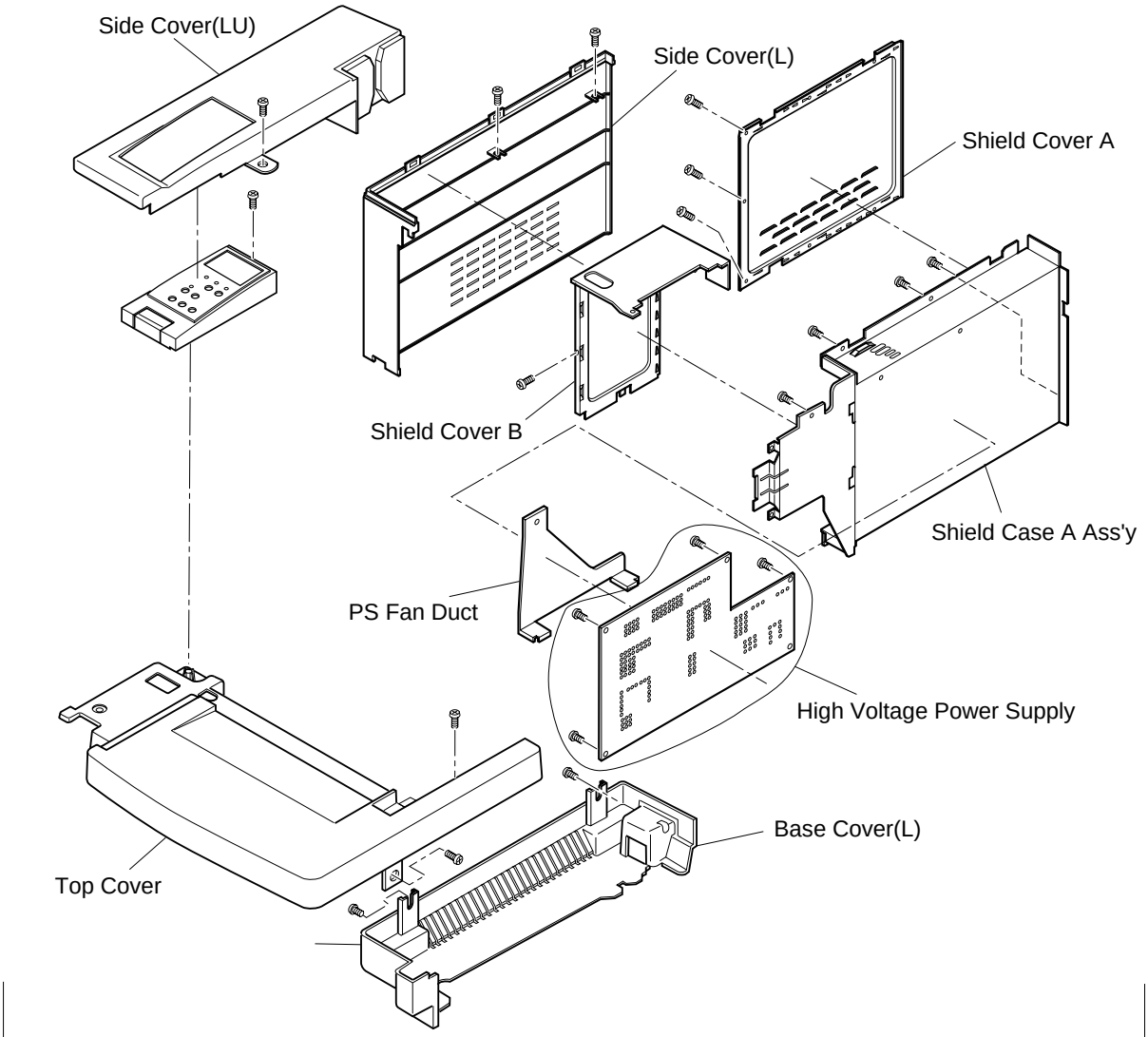
Disassembly Procedures

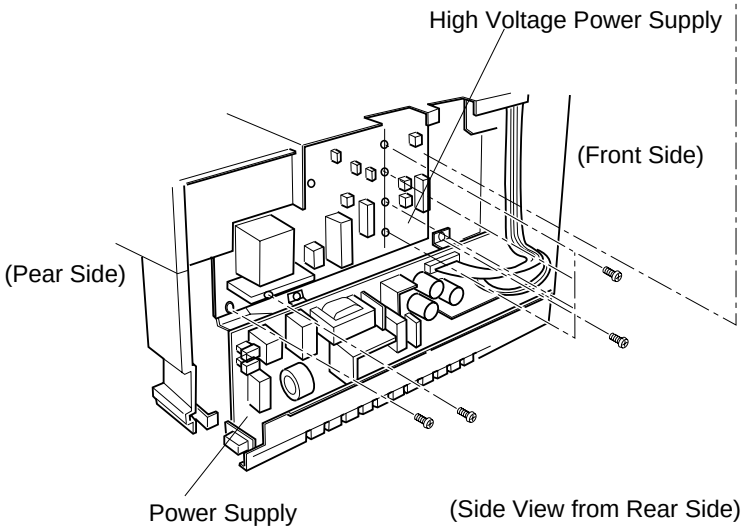
1. Remove the side cover (LU). (See the item 7.1.1.)
2. Remove the side cover (L). (See the item 7.1.2.)
3. Remove the shield cover (upper). (See the item 7.2.1.)
4. Remove the shield cover A.(See the item 7.2.1.)
5. Remove the shield cover B.(See the item 7.2.1.)
6. Disconnect all the harness connectors (5 pcs.) connected to the MCTL Circut Card.
7. Remove the set screw ST3 6 (2 pcs.) of fun assembly. (See the item 7.3.4.)
8. Remove I/F Circut Card guide rail (upper).
9. Remove the set screw ST3 6 (5pcs.) of shield case 'A' assembly.
10. Remove the set screw ST4 10 (2 pcs.) of base cover (R).
11. Remove the base cover (R).
12. Remove the fan duct of power supply.
13. Disconnect all the harness connectors (5 pcs.) connected to the high voltage unit.
14. Remove the set screw ST3 6 (1 pc.) and BT3 8 (6 pcs.) of high voltage unit.
15. Remove the high voltage unit.

Assembly Procedures

1. Install a new high voltage unit. When installing, have a lower hole of the high voltage Circut Card meet a projection of the base.
2. (i) When installing, put each electrode terminal through the holes of Circut Card. from the back.
3. (ii) Having the set holes for the electrode meet the installation hole of Circut Card, fix the both by screwing.
4. After the above , follow exactly the reverse order of disassembling procedures.
5. Upon completion of the installation, connect the power supply cable.
6. Turn the power supply switch ON.
7. Execute the test print in Service Mode.
8. Confirm the operation and print quality.

WARNING! High Voltage Unit generates high voltage (5KV). You may get electric shock if you touch the unit while it is powered on. Therefore, turn on the unit only after having installed the side cover (L).


Side Cover(LU)
Side Cover(L)
Shield Cover A
Shield Cover B
Shield Case A Ass'y
PS Fan Duct
High Voltage Power Supply
Base Cover(L)
Top Cover


High Voltage Power Supply
(Front Side)
(Pear Side)
Power Supply
(Side View from Rear Side)

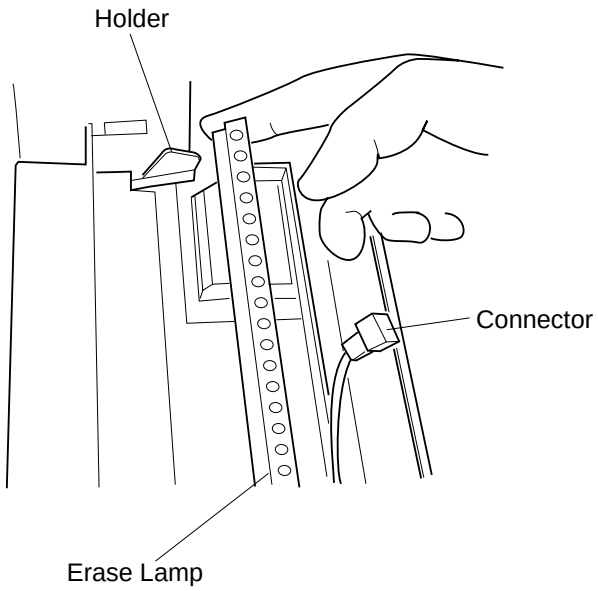
7.2.7 Erase Lamp

Tools

Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the drum cleaner assembly. (See the item 7.6.3.)
2. Disconnect the harness connectors connected to the erase lamp.
3. Remove the erase lamp from the holder.

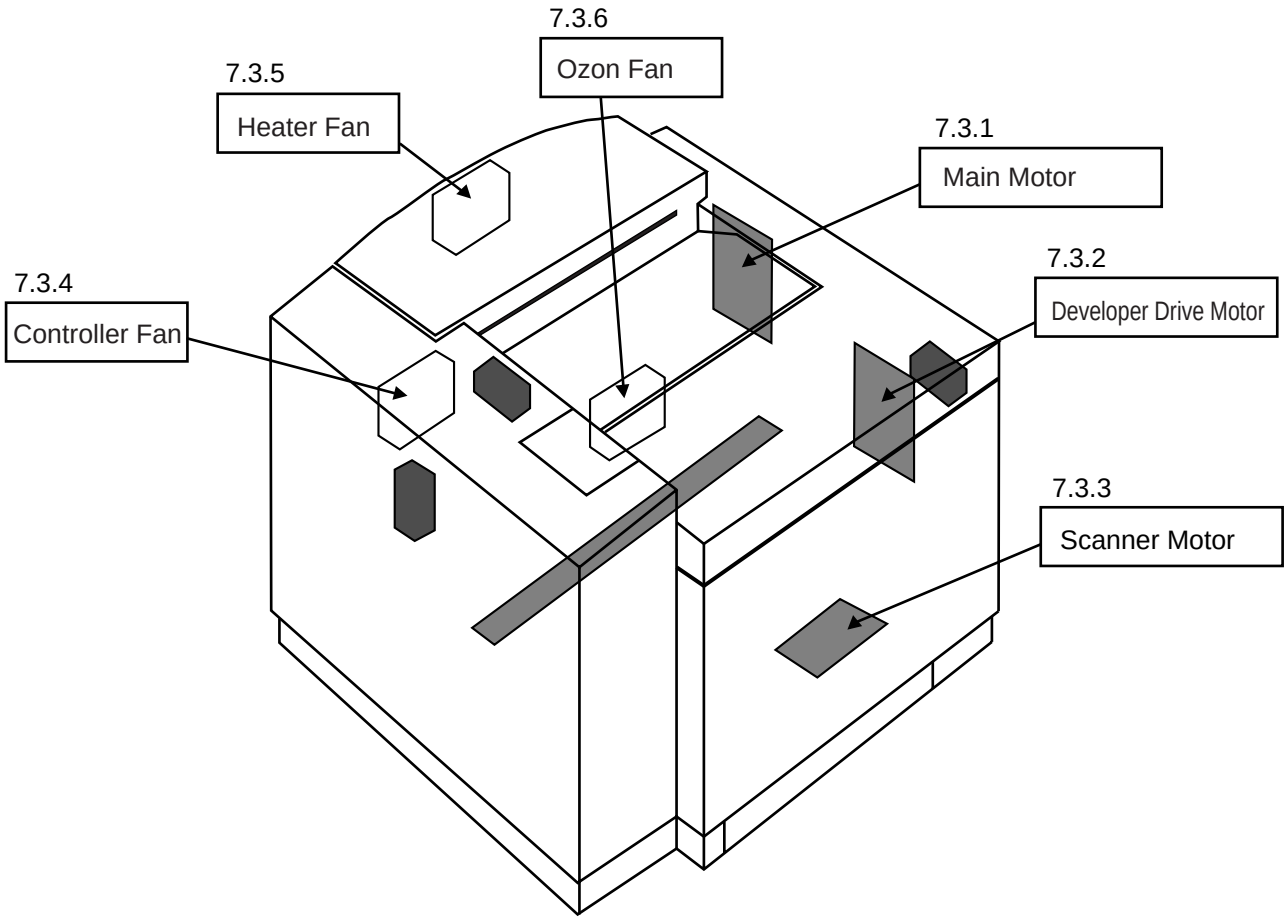


Assembly Procedures

1. Install a new erase lamp.
2. Install the erase lamp to the base frame.
3. After the above , follow exactly the reverse order of disassembling procedures.
4. Upon completion of the installation, connect the power supply cable.
5. Turn the power supply switch ON.
6. Execute the test print in Service Mode.
7. Confirm the operation and print quality.

7.3 Replacement of Motor and Fan Units

[Layout of Motors and Fans]



7.3.1 Main Motor (MM)/Main Gear Unit

Tools

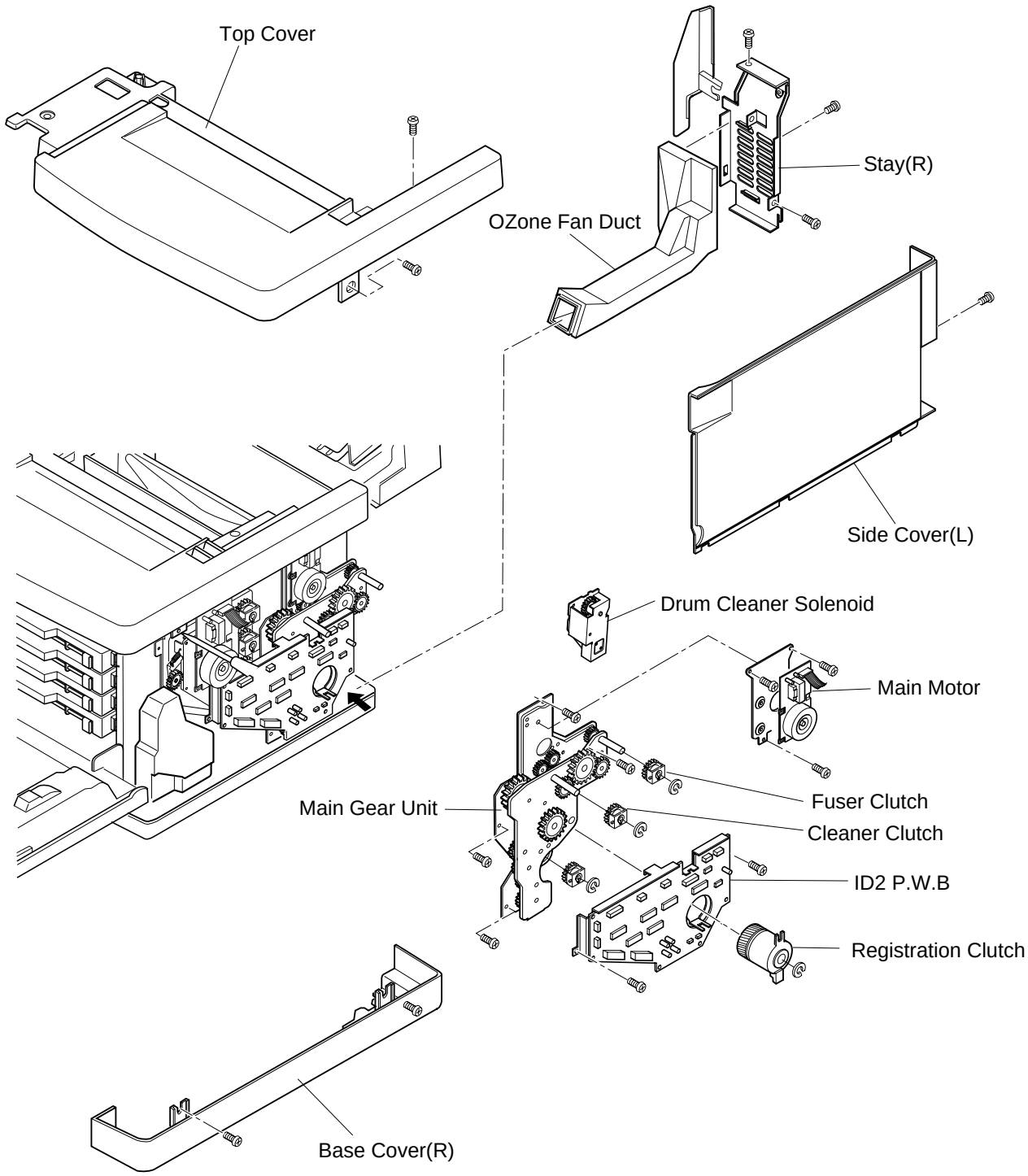
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the photoconductor belt module.
2. Remove the side cover (R). (See the item 7.1.3.)
3. Remove the IOD2 Circut Card base. (See the item 7.2.3.)
4. Disconnect all the harness connector connected with the main motor.
5. Remove ST3 6 (3 pcs.), and the stay (R).
6. Remove the set screw ST3 6 (1 pc.) of fan case. (Ozone fan)
7. Remove the ozone fan duct.
8. Remove the paper feeder clutch. (See the item 7.4.1.)
9. Remove the set screw ST3 6 (4 pcs.) of main gear unit.
10. Pull out the main gear unit from the frame.
11. Remove the set screw ST3 6 (4 pcs.) of main motor from the main gear unit.

Assembly Procedures

1. Install a new main motor to the main gear unit.
2. Install the main gear unit to the main body.
3. After the above , follow exactly the reverse


Top Cover
Stay(R)
OZone Fan Duct
Side Cover(L)
Drum Cleaner Solenoid
Main Motor
Main Gear Unit
Fuser Clutch
Cleaner Clutch
ID2 P.W.B
Registration Clutch
Base Cover(R)

7.3.2 Developer Drive Motor (DM)/Developer Drive Unit

Tools

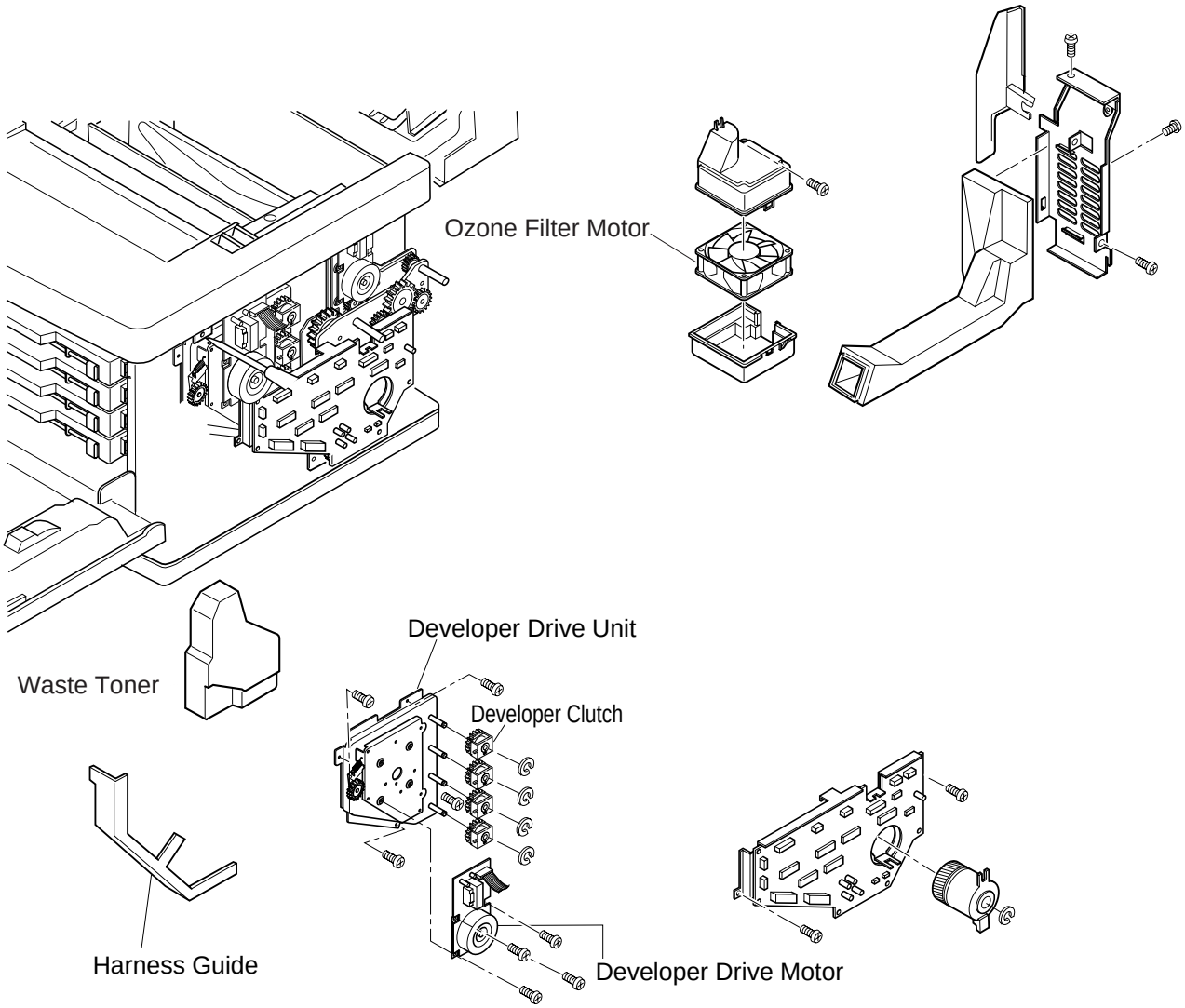
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the toner module.
2. Remove the side cover (R). (See the item 7.1.3.)
3. Remove the IOD2 Circut Card. (See the item 7.2.3.)
4. Remove the harness guide.
5. Remove the connector to be connected to the developer drive motor.
6. Remove the set screw ST3 6 (4 pcs.) of developer gear unit.
7. Remove the developer drive unit.
8. Remove the set screw ST3 6 (4 pcs.) of developer drive motor from the developer drive unit.
9. Remove the developer drive motor.

Assembly Procedures

1. Install a new developer drive motor to the developer drive unit.
2. Install the developer drive unit to the main body.
3. After the above , follow exactly the reverse order of disassembling procedures.


Ozone Filter Motor
Waste Toner
Developer Drive Unit
Developer Clutch
Harness Guide
Developer Drive Motor

7.3.3 Optical Unit (Scanner Motor inclusive)

Tools

Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the toner modules.
2. Remove the photoconductor belt module.
3. Remove the cover 'C'. Cover 'C' is secured by the plastic nubs and hole at three locations in the front side and rear.

a. Release the fixing of three locations (three holes at the rear side).

b. Pulling the cover C toward you, release the fixing of front side lock.

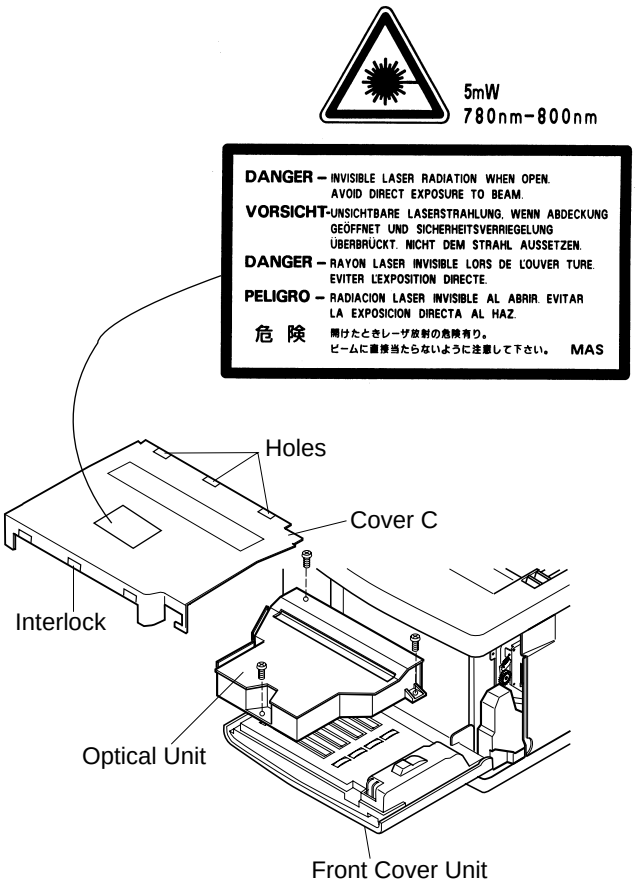
4. Remove the cover 'C' from the printer.
5. Remove the set screw ST3 6 (3 pcs.) of optical unit.
6. Disconnect all the harness connector connected with the optical unit.
7. Remove the optical unit from the printer.

Assembly Procedures

1. Having a new optical unit align the locating boss, install the optical unit into the printer base.
2. After the above , follow exactly the reverse order of disassembling procedures.

WARNING! There is a class b laser within the optical unit. Do not attempt to disassemble the laser. Optical unit is replaced as a whole unit. No adjustment is required to the replaced optical unit. Confirm all the covers have been installed prior to any test run or operation in order to prevent any laser radiation from occurring.

Laser WARNING Label



7.3.4 Control Fan (CTFAN)

Tools

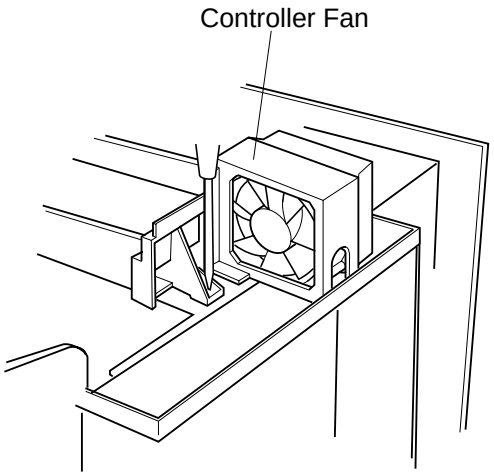
Phillips Screwdriver #1, #2

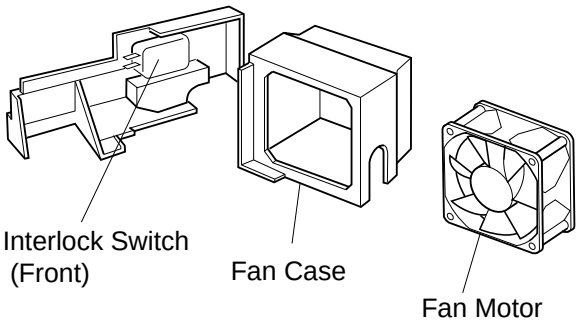
Disassembly Procedures

1. Remove the side cover (LU). (See the item 7.1.1.)
2. Remove the side cover (L). (See the item 7.1.2.)
3. Remove the top cover. (See the item 7.1.4.)
4. Remove the set screw ST3 6 (3 pcs.), and shield cover (upper).
5. Disconnect all the fan motor harness connectors.
6. Remove the set screw ST3 6 (2 pcs.) of fan case assembly.
7. Remove the fan motor from the fan case assembly.

Assembly Procedures

1. Install a new fan motor to the fan case.
2. Install the fan duct assembly to the main body.
3. After the above , follow exactly the reverse order of disassembling procedures.
4. Upon completion of the installation, connect the power supply cable.
5. Turn the power supply switch ON.
6. Execute the test print in Service Mode.
7. Confirm the operation and print quality.





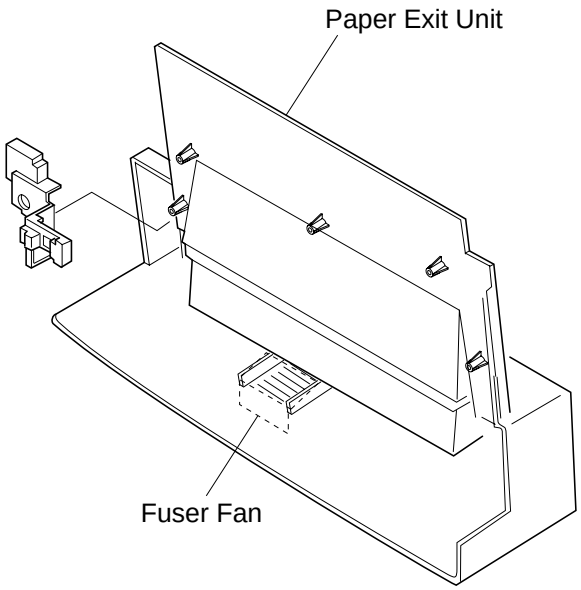
7.3.5 Fuser Fan (FUFAN)

Tools

Phillips Screwdriver #1, #2

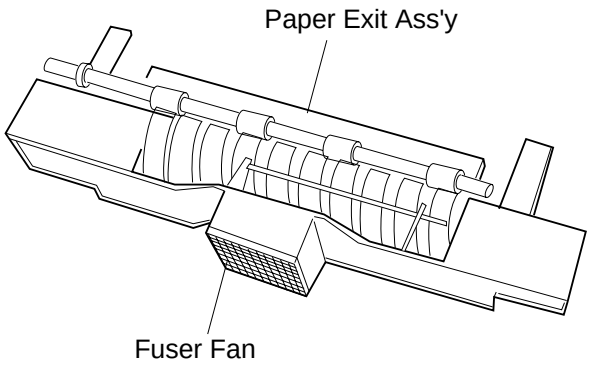
Disassembly Procedures

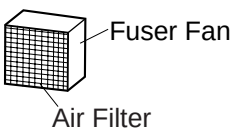
1. Remove the side cover (LU). (See the item 7.1.1.)
2. Remove the side cover (L). (See the item 7.1.2.)
3. Remove the shield cover 'A'.
4. Remove the paper exit unit. (See the item 7.1.5.)
5. Remove the paper exit cover. (See the item 7.1.5.)
6. Remove the fan case assembly from the paper exit guide assembly.
7. Remove the fan motor from the fan case assembly.



Assembly Procedures

1. Install a new fan motor to the paper exit guide assembly.
2. Install the paper exit cover to the paper exit guide assembly.
3. Install the paper exit unit.
4. After the above , follow exactly the reverse order of disassembling procedures.





7.3.6 Ozone Fan (OZFAN)

Tools

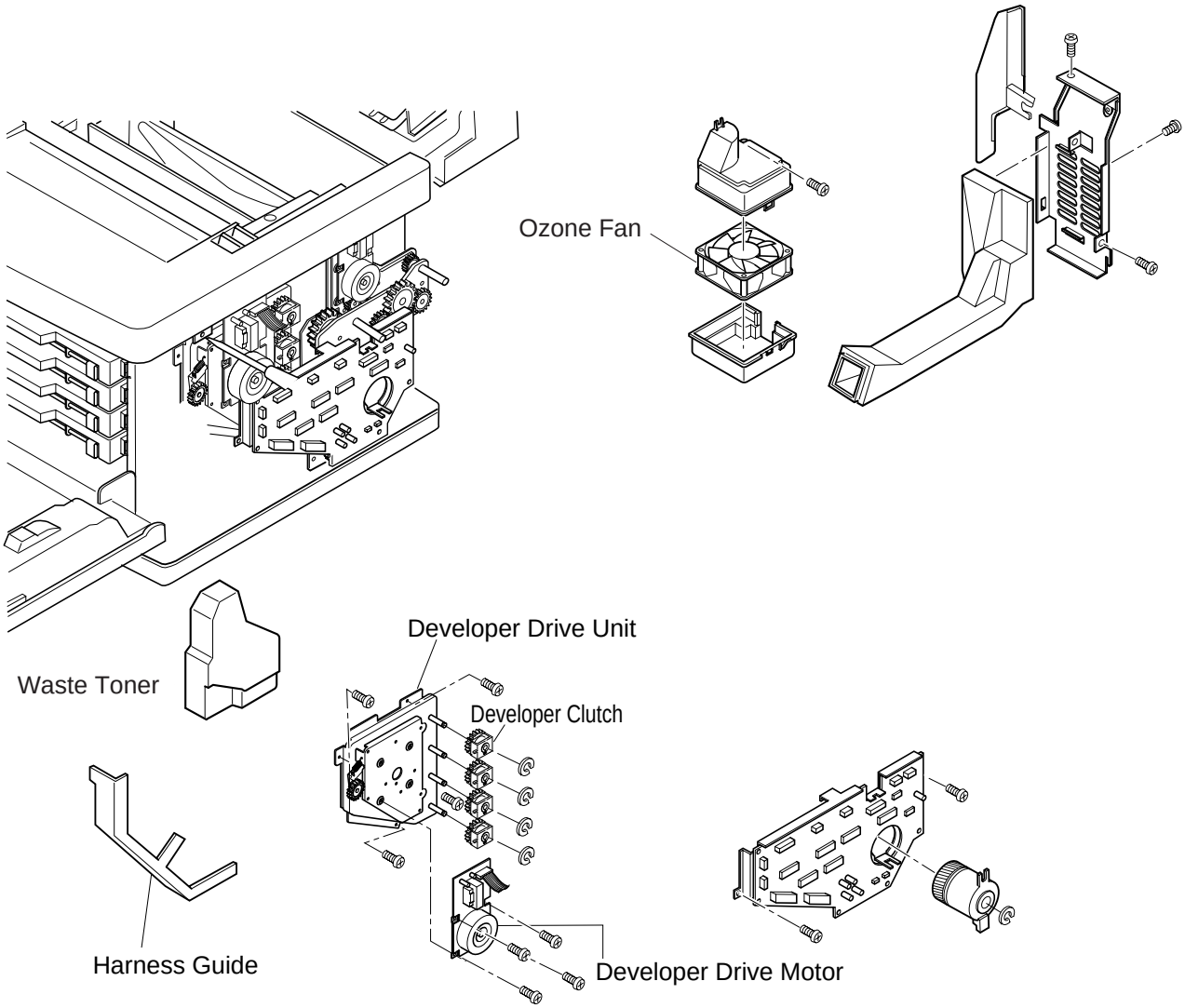
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the toner module.
2. Remove the side cover (R). (See the item 7.1.3.)
3. Remove the IOD2 Circut Card. (See the item 7.2.3.)
4. Remove the harness guide.
5. Remove the connector to be connected to the developer drive motor.
6. Remove the set screw ST3 6 (2 pcs.) of developer gear unit.
7. Remove the developer drive unit.
8. Set the waste toner feeder to be nearly up right position.
9. Remove the set screw ST3 6 (1 pc.) of fan case.
10. Remove the fan case.
11. Remove the fan motor from the fan case.

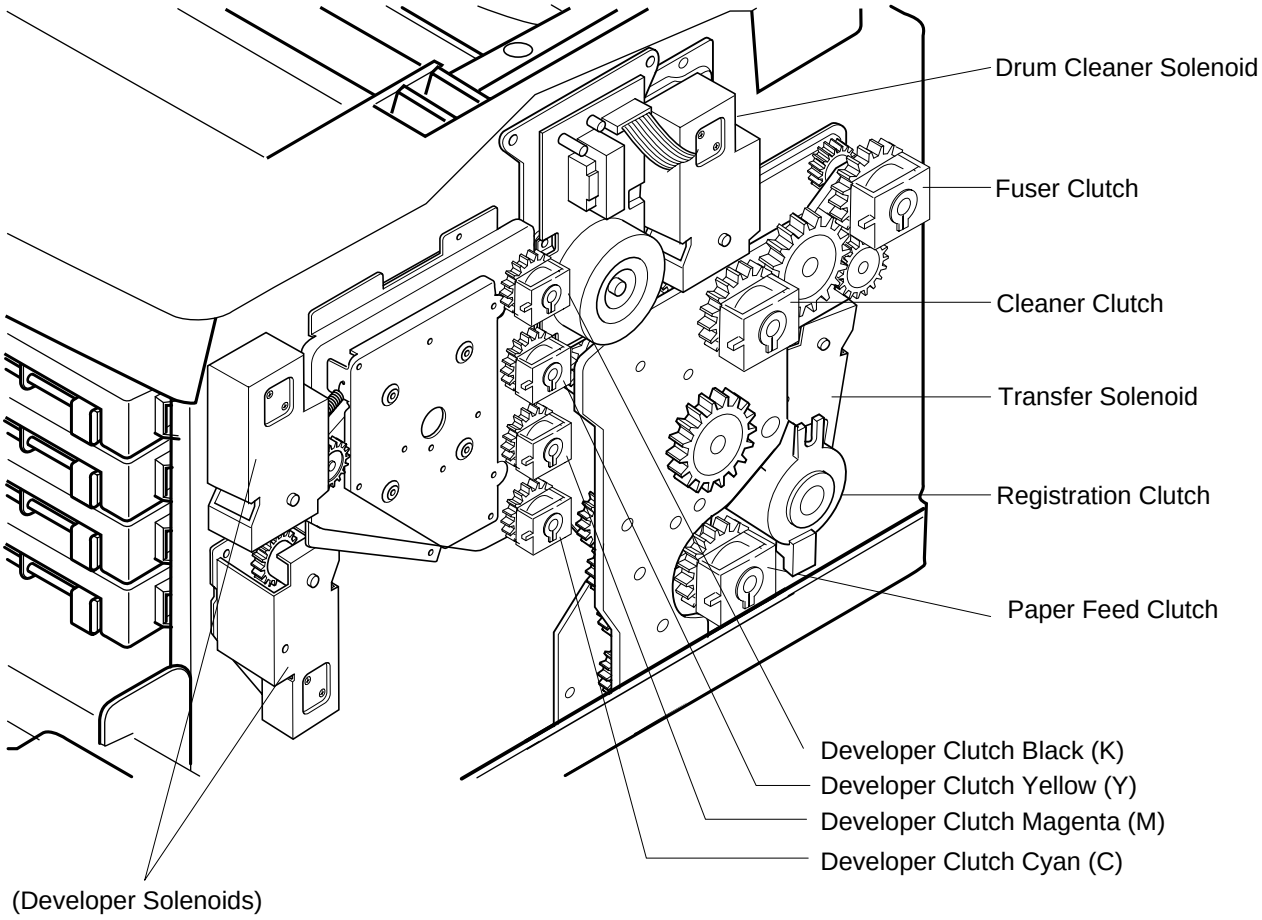
Assembly Procedures

1. Install a new fan motor to the fan case.
2. After the above , follow exactly the reverse order of disassembling procedures.


Ozone Fan
Waste Toner
Developer Drive Unit
Developer Clutch
Harness Guide
Developer Drive Motor

7.4 Replacement of Clutches and Solenoids

[Layout of Clutches and Solenoids]



7.4.1 Paper Feeding Clutch (PCLU)

Tools

Phillips Screwdriver #1, #2

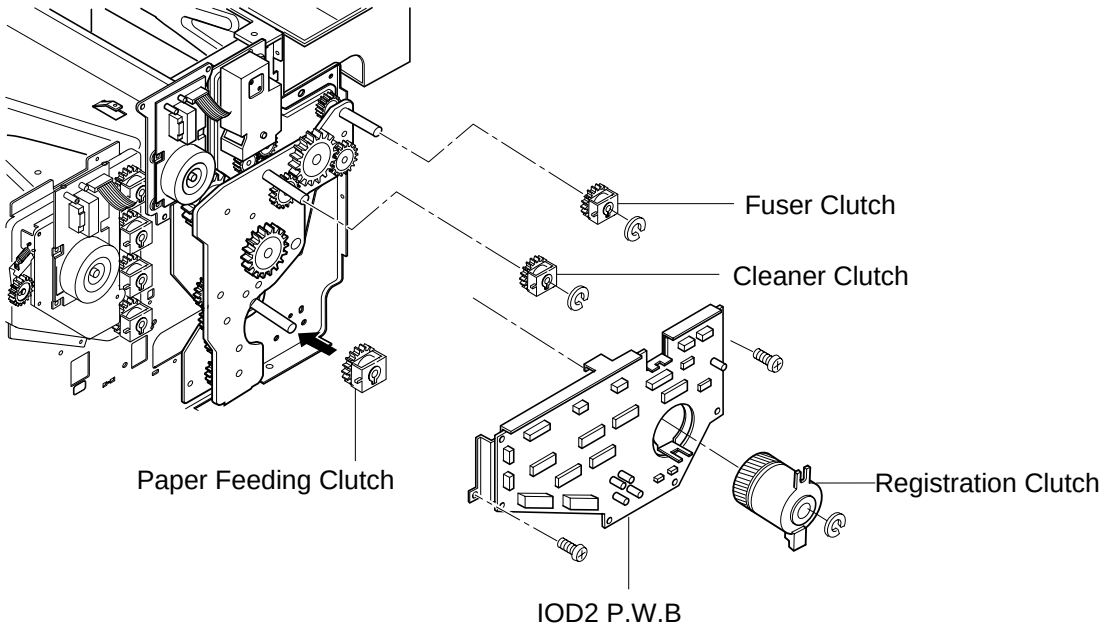
Slotted Screwdriver #1

Disassembly Procedures

1. Remove the side cover (R). (See the item 7.1.3)
2. Remove the IOD2 Circut Card base. (See the item 7.2.3)
3. Remove the C ring fixing the paper feeding clutch.
4. Remove the paper feeding clutch from the shaft.

Assembly Procedures

1. Install a new paper feeding clutch to the shaft. Having the recess of Circut Card. base meet the stopper of paper feeding clutch, install IOD2 Circut Card.
2. Install the C ring to the shaft's groove, and fix the paper feeding clutch.
3. After the above , follow exactly the reverse order of disassembling procedures.



7.4.2 Registration Clutch (RECL)

Tools

Phillips Screwdriver #1, #2

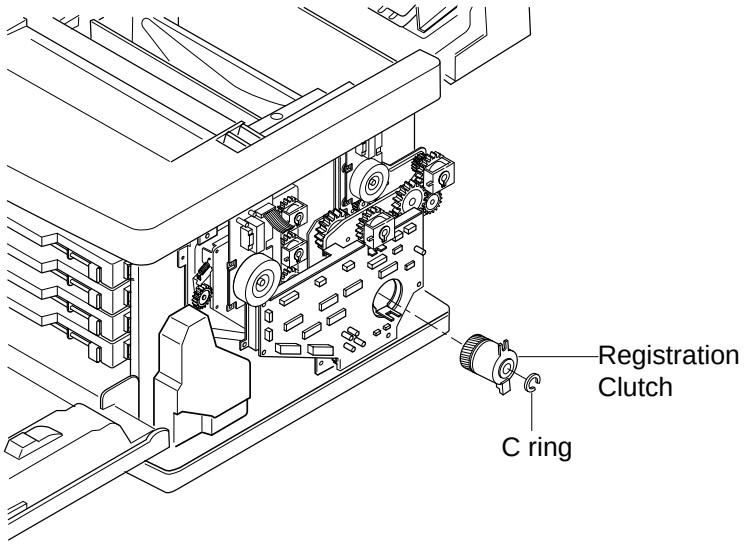
Slotted Screwdriver #1

Disassembly Procedures

1. Remove the side cover (R). (See the item 7.1.3.)
2. Remove all the connector of registration clutch connected with IOD2 Circut Card.
3. Remove the C ring from the shaft.
4. Pull out the registration clutch from the shaft.

Assembly Procedures

1. Install a new registration clutch to the shaft.
2. Install the C ring to the shaft's groove, and fix the registration clutch.
3. Connect the connector with the IOD2 Circut Card.
4. After the above , follow exactly the reverse order of disassembling procedures.



7.4.3 Fuser Clutch (FUCL)

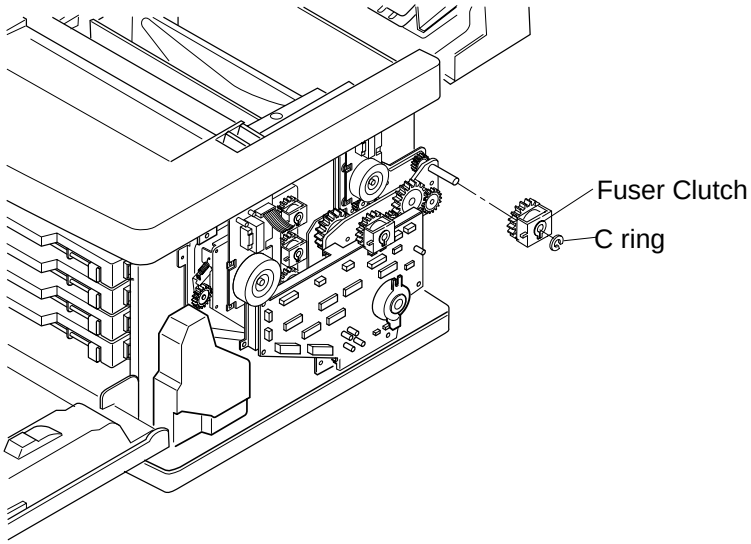
Tools

Phillips Screwdriver #1, #2

Slotted Screwdriver #1

Disassembly Procedures

1. Remove the side cover (R). (See the item 7.1.3.)
2. Remove the connector connected with IOD2 Circut Card.
3. Remove the C ring from the shaft.
4. Pull out the fuser clutch from the shaft.



Assembly Procedures

1. Install a new fuser clutch to the shaft.
2. Install the C ring to the shaft's groove, and secure the fuser clutch.
3. Connect the connector with the IOD2 Circut Card.
4. After the above , follow exactly the reverse order of disassembling procedures.

7.4.4 Cleaner Clutch (FBCL)

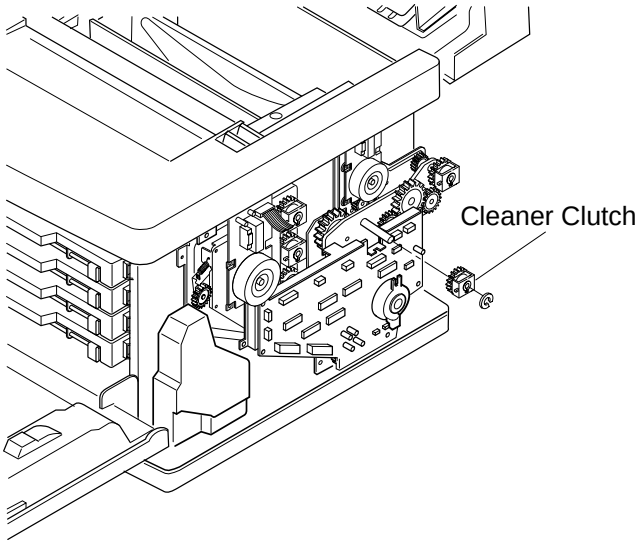
Tools

Phillips Screwdriver #1, #2

Slotted Screwdriver #1

Disassembly Procedures

1. Remove the side cover (R). (See the item 7.1.3 .)
2. Remove the connector of cleaner clutch from IOD2 Circut Card.
3. Remove the C ring from the shaft.
4. Pull out the cleaner clutch from the shaft.



Assembly Procedures

1. Install a new cleaner clutch to the shaft.
2. Install the C ring to the shaft's groove, and secure the cleaner clutch.
3. After the above, follow exactly the reverse order of disassembling procedures.

7.4.5 Developer Clutch (K, Y, M, C)

Tools

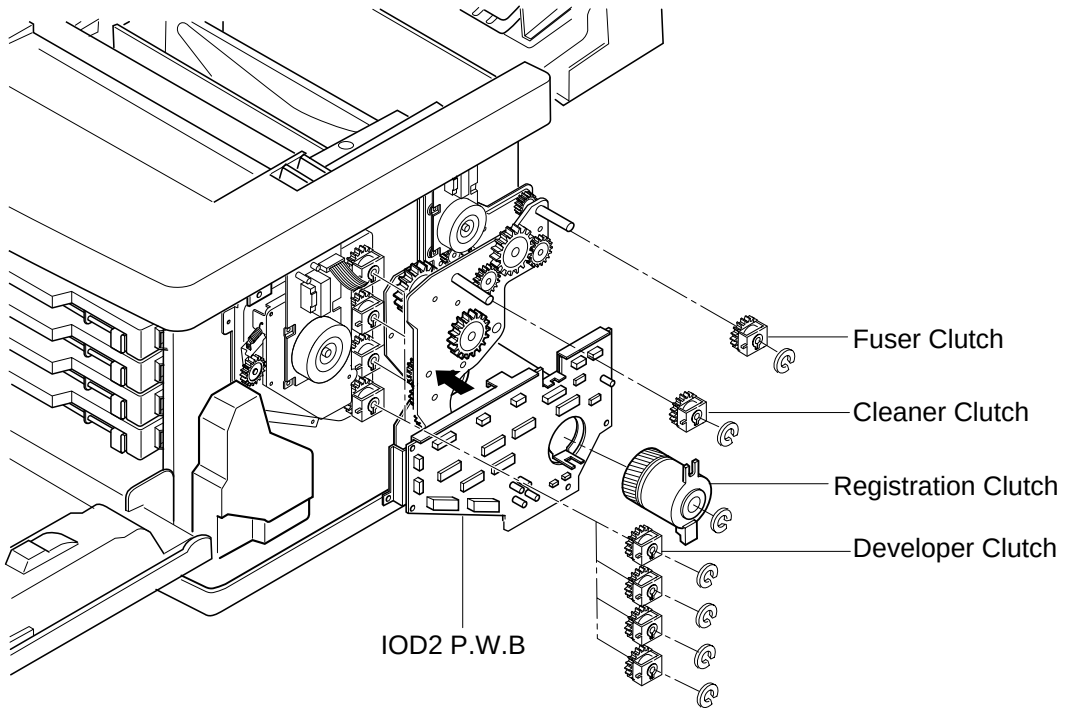
Phillips Screwdriver #1, #2 Slotted Screwdriver #1

Disassembly Procedures

1. Remove the side cover (R). (See the item 7.1.3.)
2. Remove IOD2 Circut Card. base. (See the item 7.2.3.)
3. Remove the C ring of the suspect developer clutch (K,Y,M, or C) from the shaft.
4. Pull out the subject developer clutch from the shaft.

Assembly Procedures

1. Install a new developer clutch to the shaft.
2. Install the C ring to the shaft's groove, and fix the developer clutch.
3. After the above , follow exactly the reverse order of disassembling procedures.
4. Upon completion of the installation, connect the power supply cable.



7.4.6 Transfer Solenoid (TRSOL)

Tools

Phillips Screwdriver #1, #2

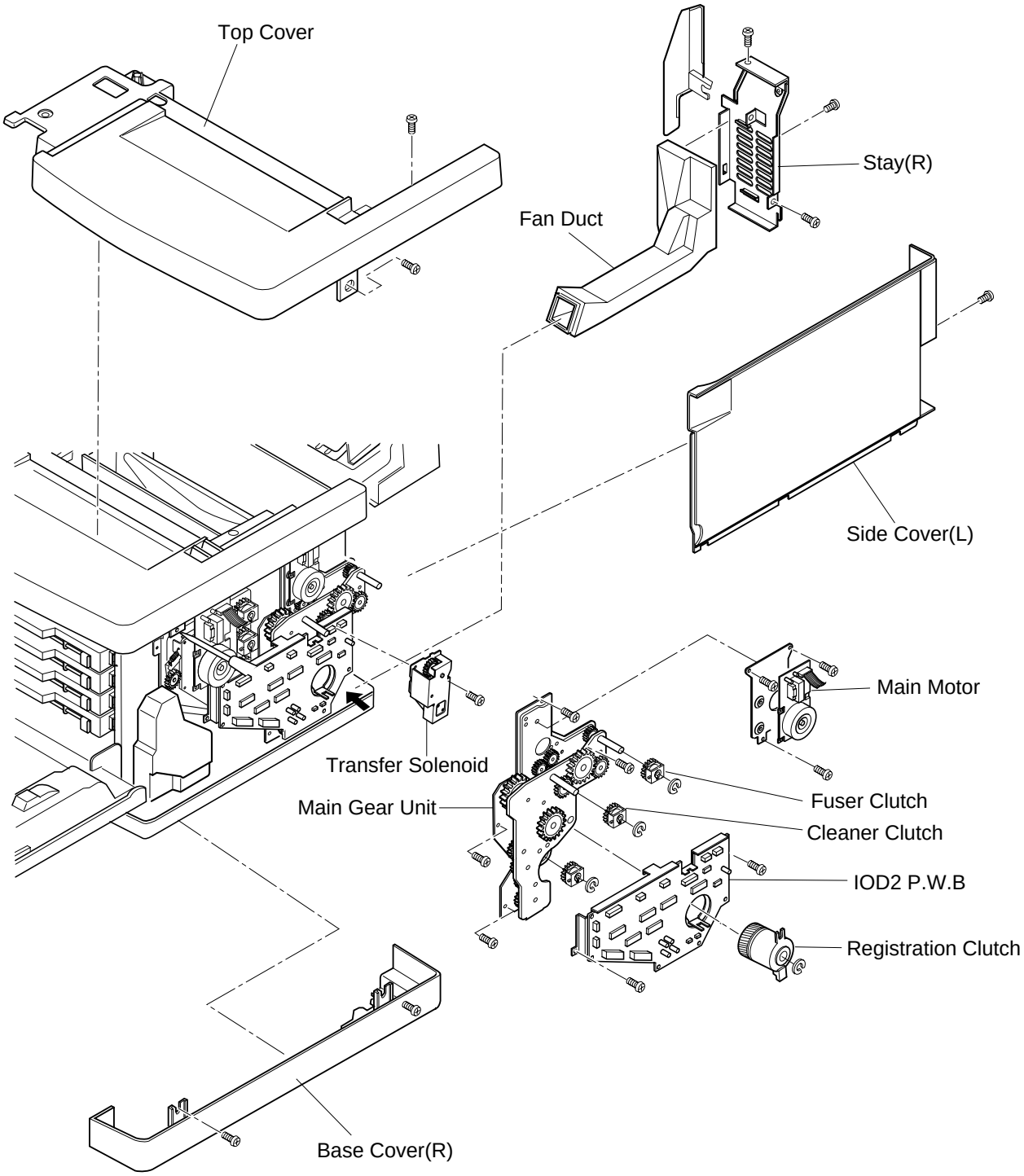
Slotted Screwdriver #1

Disassembly Procedures

1. Remove the side cover (R). (See the item 7.1.3.)
2. Remove the IOD2 Circut Card. (See the item 7.2.3.)
3. Remove the main gear unit. (See the item 7.3.1.)
4. Remove the set screw ST3 6 (2 pcs.) of tension solenoid.
5. Remove the tension solenoid.

Assembly Procedures

1. Install a new tension solenoid.
2. After the above , follow exactly the reverse order of disassembling procedures.


Top Cover
Stay(R)
Fan Duct
Side Cover(L)
Transfer Solenoid
Main Motor
Main Gear Unit
Fuser Clutch
Cleaner Clutch
IOD2 P.W.B
Registration Clutch
Base Cover(R)

7.4.7 Drum Cleaner Solenoid (FBSOL)

Tools

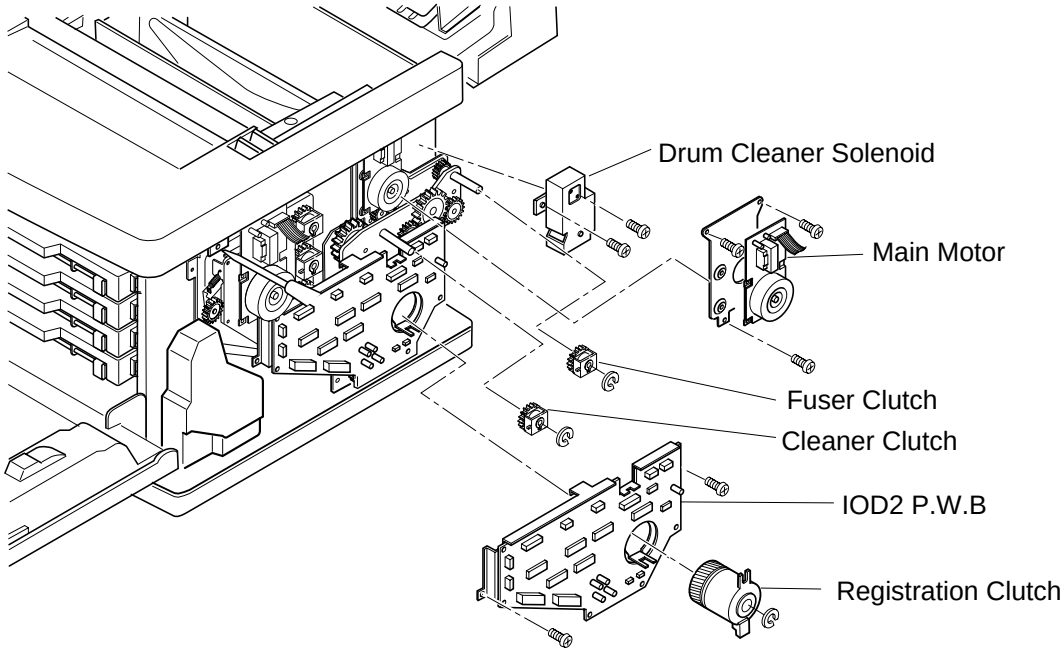
Phillips Screwdriver #1, #2, Slotted Screwdriver #1

Disassembly Procedures

1. Remove the side cover (R). (See the item 7.1.3.)
2. Remove IOD2 Circut Card base. (See the item 7.2.3.)
3. Remove the main motor/gear unit. (See the item 7.3.1.)
4. Remove the set screw ST3 6 (2 pcs.) of drum cleaner solenoid.
5. Remove the drum cleaner solenoid.

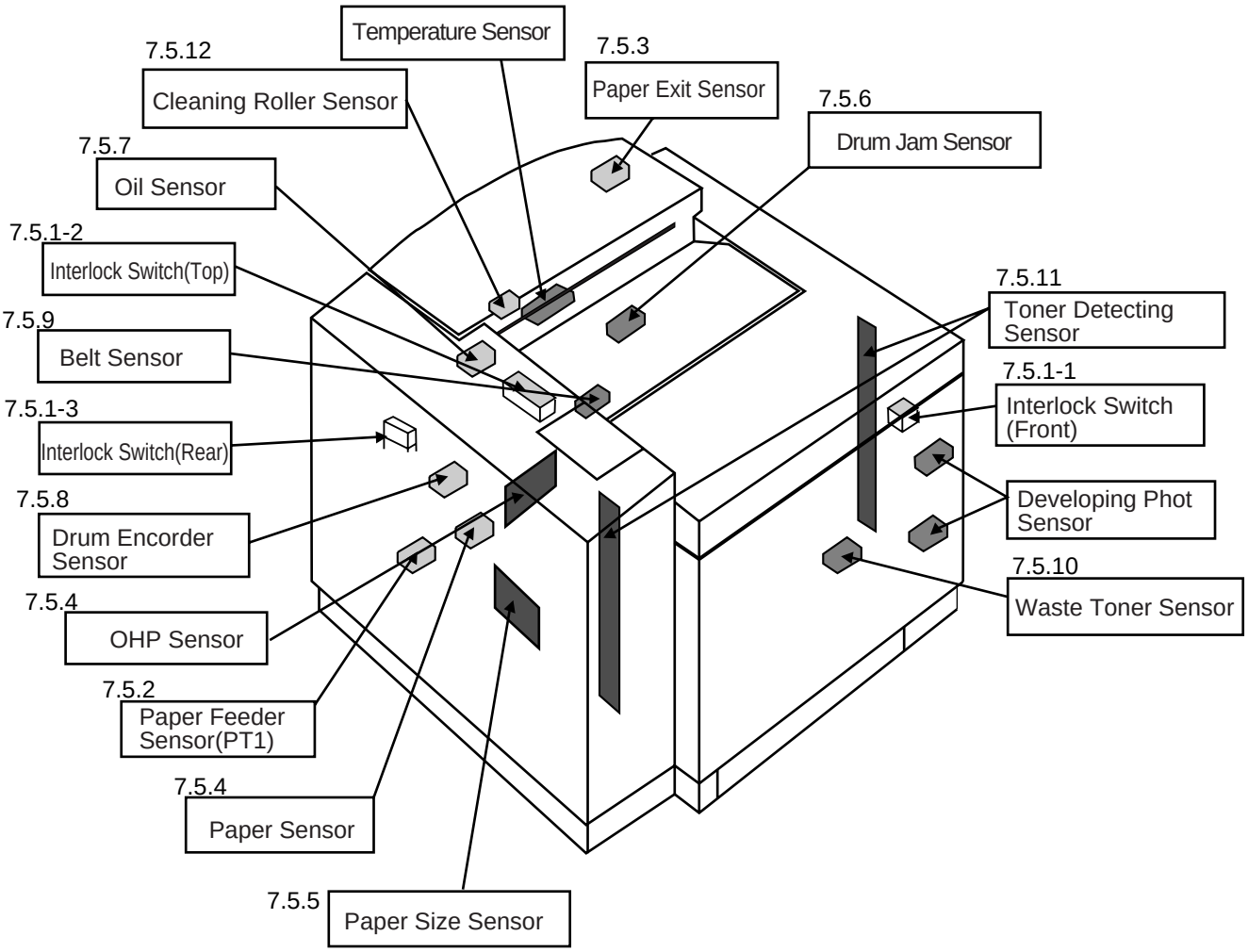
Assembly Procedures

1. Install a new drum cleaner solenoid.
2. After the above , follow exactly the reverse order of disassembling procedures.
3. Upon completion of the installation, connect the power supply cable.
4. Turn the power supply switch ON.
5. Execute the test print in Service Mode.
6. Confirm the operation and print quality.



7.5 Replacement of Sensors

[Layout of Sensors]



7.5.1-1 Interlock Switch (Front)

Tools

Phillips Screwdriver #1

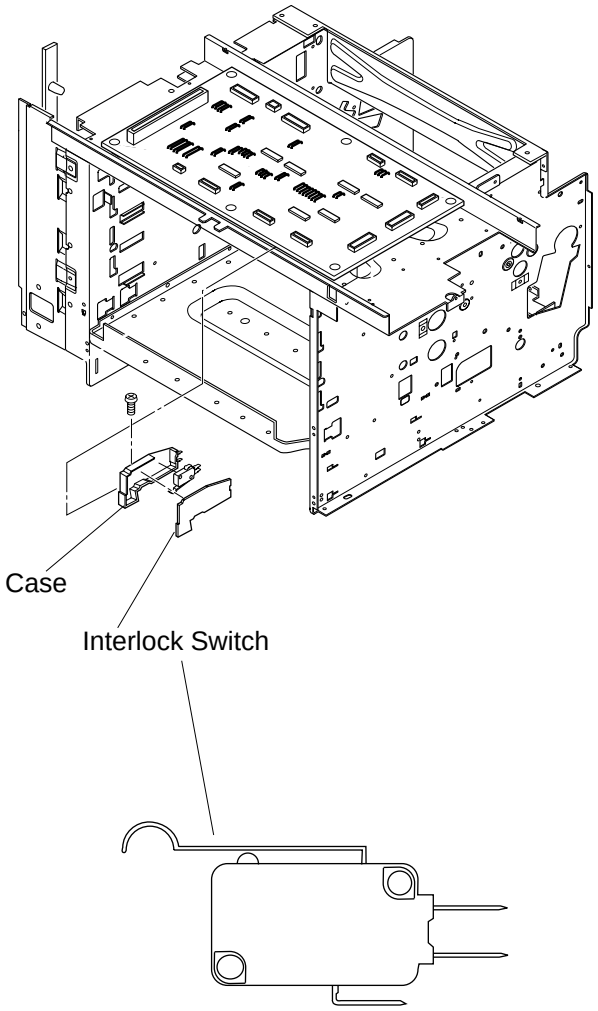
Disassembly Procedures

1. Remove the top cover. (See the item 7.1.4.)
2. Remove the shield cover (upper).
3. Remove the switch from the stay U.
4. Remove the connector.
5. Remove the switch from the switch case.

Assembly Procedures

1. Install a new switch to the switch base.
2. Connect the connector.
3. Install the switch case to the stay U.

Caution! Since the interlock switch is an important part for the safety, confirm after installation that the switch operates normally.



7.5.1-2 Interlock Switch (Top) (for Paper Exit Unit)

Tools

Phillips Screwdriver #1, #2

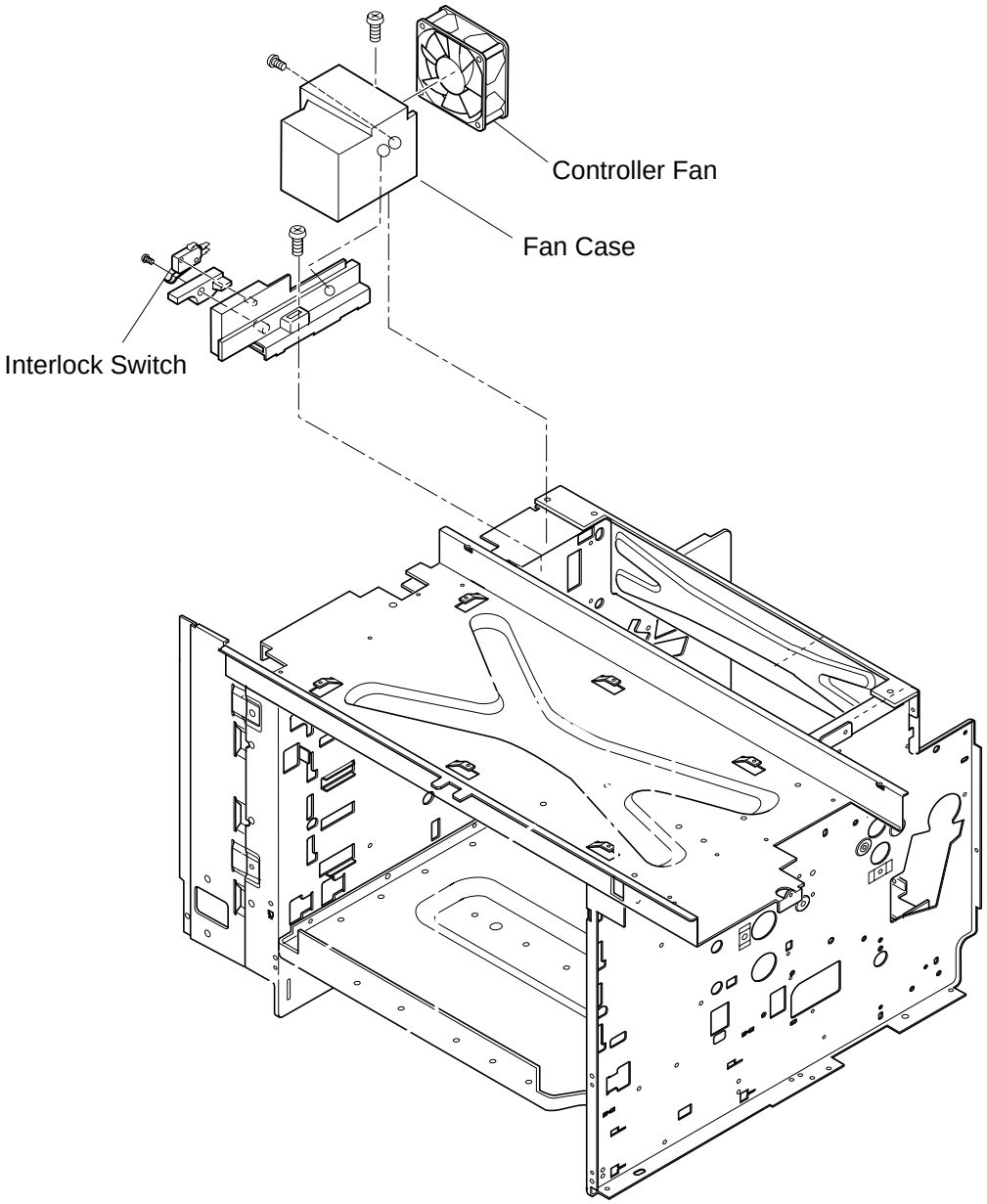
Disassembly Procedures

1. Remove the side cover (LU). (See the item 7.1.1.)
2. Remove the top cover. (See the item 7.1.4.)
3. Remove the set screw ST3 6 (2 pcs.), and the control fan assembly.
4. Remove the set screw BT3 8 (1 pc.), and switch base from the control fan assembly.
5. Remove the connector.
6. Remove the switch from the switch base.

Assembly Procedures

1. Install a new switch to the switch base.
2. After the above, follow exactly the reverse order of disassembling procedures.

Caution! Since the interlock switch is an important part for the safety, confirm after installation that the switch operates normally.


Controller Fan
Fan Case
Interlock Switch

7.5.1-3 Interlock Switch (Rear)

Tools

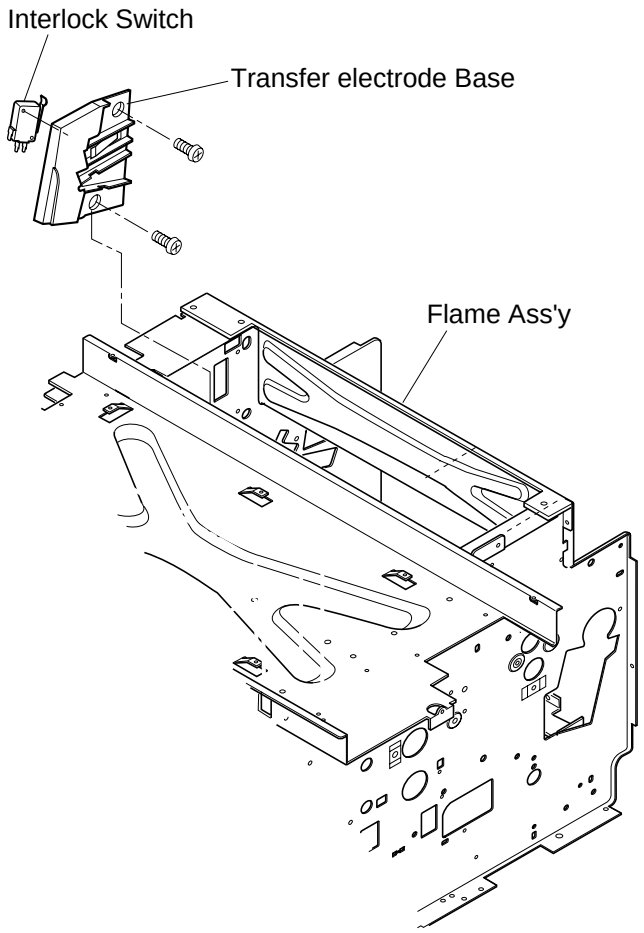
Phillips Screwdriver #1

Disassembly Procedures

1. Remove the side cover (L). (See the item 7.1.2.)
2. Remove the transfer drum. (See the item 7.6.3.)
3. Remove the set screw ST3 6 (2 pcs.) of transfer electrode base.
4. Remove the transfer electrode base from the frame.
5. Disconnect all the harness connectors connected with the interlock switch.
6. Remove the micro switch from the transfer electrode base.

Assembly Procedures

1. Install a new interlock switch to the transfer electrode base.
2. After the above , follow exactly the reverse order of disassembling procedures.



7.5.2 Paper Sensor (Paper Feeding Sensor PT1)

Tools

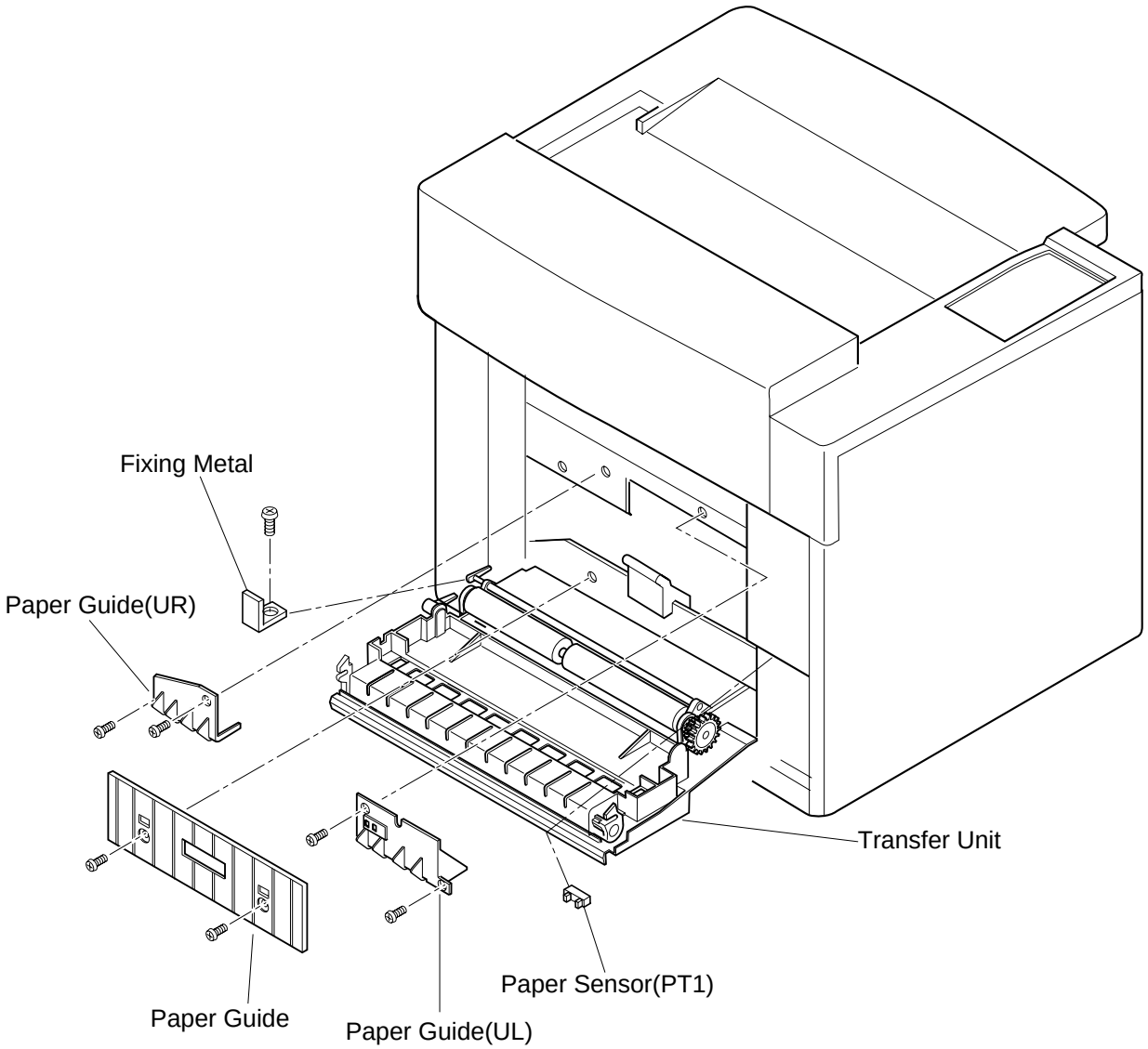
Phillips Screwdriver #1

Disassembly Procedures

1. Remove the transfer drum. (See the item 7.6.1.)
2. Remove the set screw ST3 6 (2 pcs.), and the paper guide (UR) assembly.
3. Unlock the paper feeding sensor from the rear side of the hole where the paper guide (UR) has been removed.
4. Remove the paper feeding sensor from the stay feeder.
5. Disconnect the all the connectors connected with the paper feeding sensor.

Assembly Procedures

1. Install a new paper feeding sensor to the stay feeder.
2. Connect the harness connectors with the paper feeding sensor.
3. After the above , follow exactly the reverse order of disassembling procedures.


Fixing Metal
Paper Guide(UR)
Transfer Unit
Paper Sensor(PT1)
Paper Guide
Paper Guide(UL)

7.5.3 Paper Sensor (Paper Exit Sensor PT2)

Tools

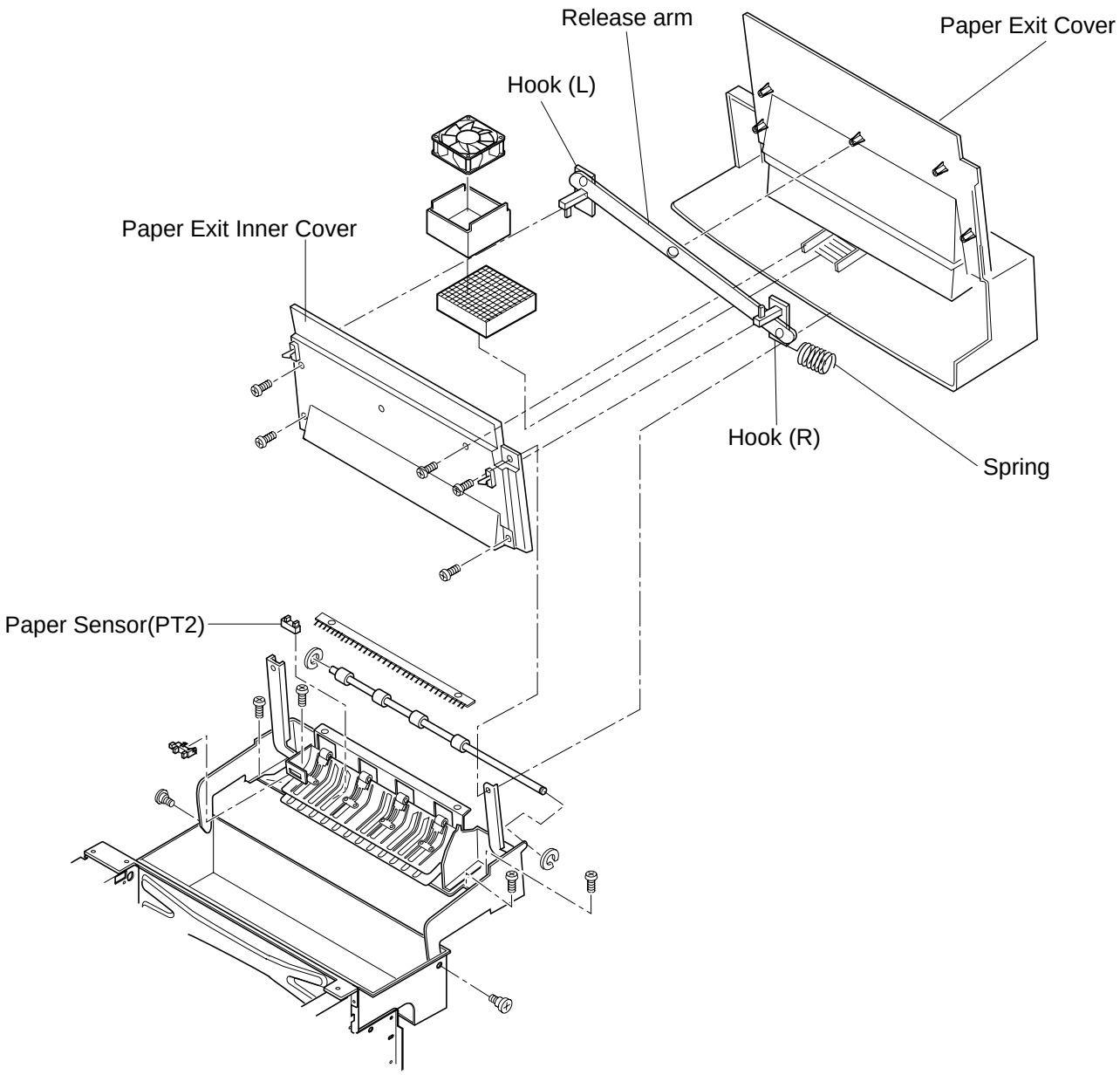
Phillips Screwdriver #2

Disassembly Procedures

1. Remove the paper exit cover. (See the item 7.1.5.)
2. Disconnect the harness connector connected to the the paper exit sensor (PT2).
3. Remove the paper exit sensor from the paper exit guide (paper exit stay).

Assembly Procedures

1. Install a new paper exit sensor to the paper guide.
2. Connect the harness connectors with the paper exit sensor.
3. After the above , follow exactly the reverse order of disassembling procedures.


Release arm
Paper Exit Cover
Hook (L)
Paper Exit Inner Cover
Hook (R)
Spring
Paper Sensor(PT2)

7.5.4 Paper Empty Sensor (PE)/OHP Sensor (OHP)

Tools

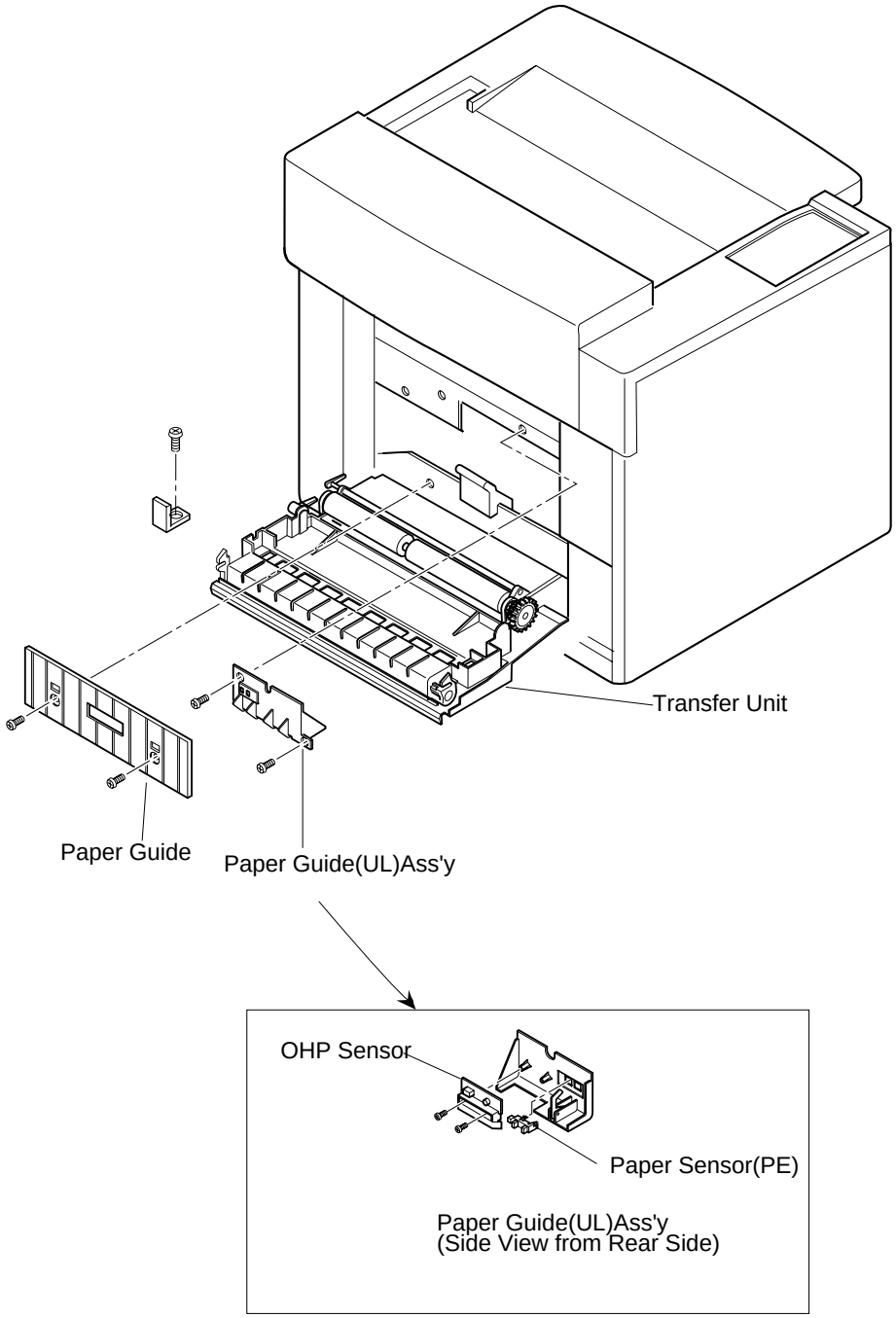
Phillips Screwdriver #1

Disassembly Procedures

1. Remove the transfer unit. (See the item 7.6.1.)
2. Remove the set screw ST3 6 (2 pcs.) of paper guide (L).
3. Remove the paper guide (L).
4. Remove the set screw ST3 6 (2 pcs.) of paper guide assembly (UR).
5. Remove the connector connected with the sensor.
6. Remove the paper guide assembly (UR).
7. Remove the paper empty sensor (PE) from the paper guide assembly (UR), or remove the set screw BT3 8 (2 pc.) of OHP sensor (OHP) from the paper guide assembly (UR).
8. Remove the OHP sensor (OHP).

Assembly Procedures

1. Install a new paper empty sensor (PE) or a new OHP sensor (OHP) to the paper guide assembly (UR).
2. After the above , follow exactly the reverse order of disassembling procedures.


Transfer Unit
Paper Guide
Paper Guide(UL)Ass'y
OHP Sensor
Paper Sensor(PE)
Paper Guide(UL)Ass'y
(Side View from Rear Side)

7.5.5 Paper Size Sensor (PSU)

Tools

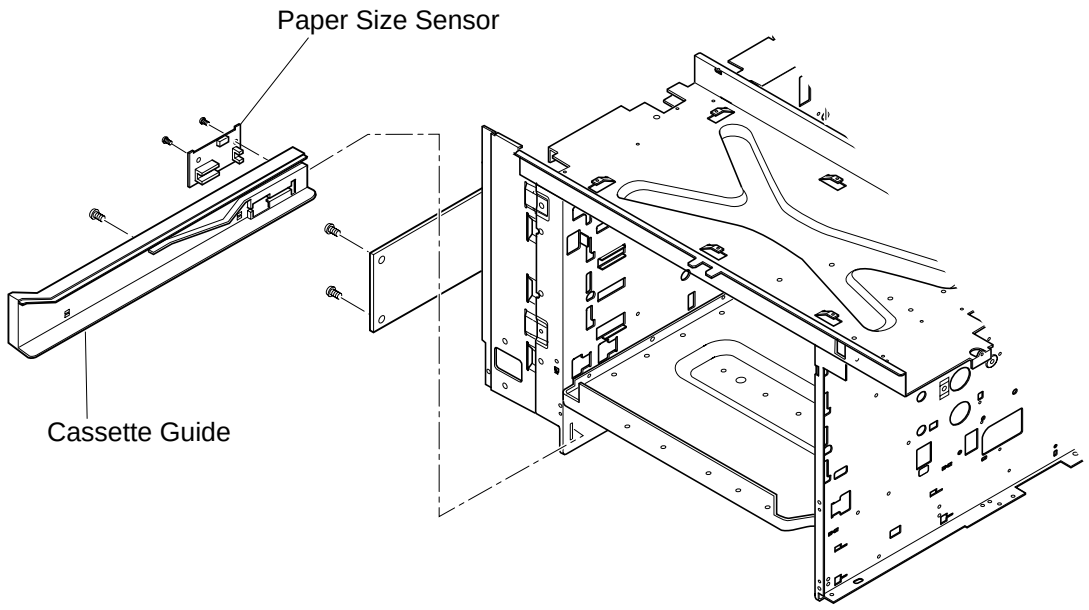
Phillips Screwdriver

Disassembly Procedures

1. Remove the side cover (L). (See the item 7.1.2.)
2. Remove the power supply unit. (See the item 7.2.5.)
3. Remove the set screw ST3 6 (2 pcs.) of the paper cassette guide (L) assembly.
4. Pull the paper cassette guide toward you.
5. Remove the connector for the paper size sensor.
6. Remove the paper cassette guide (L) assembly from the frame.
7. Remove the set screw BT3 8 (2 pcs.) of paper size sensor from the cassette guide (L).

Assembly Procedures

1. Install a new paper size sensor (PSU) to the paper cassette guide (R).
2. After the above, follow exactly the reverse order of disassembling procedures.



7.5.6 Drum Jam Sensor (DPJ)

Tools

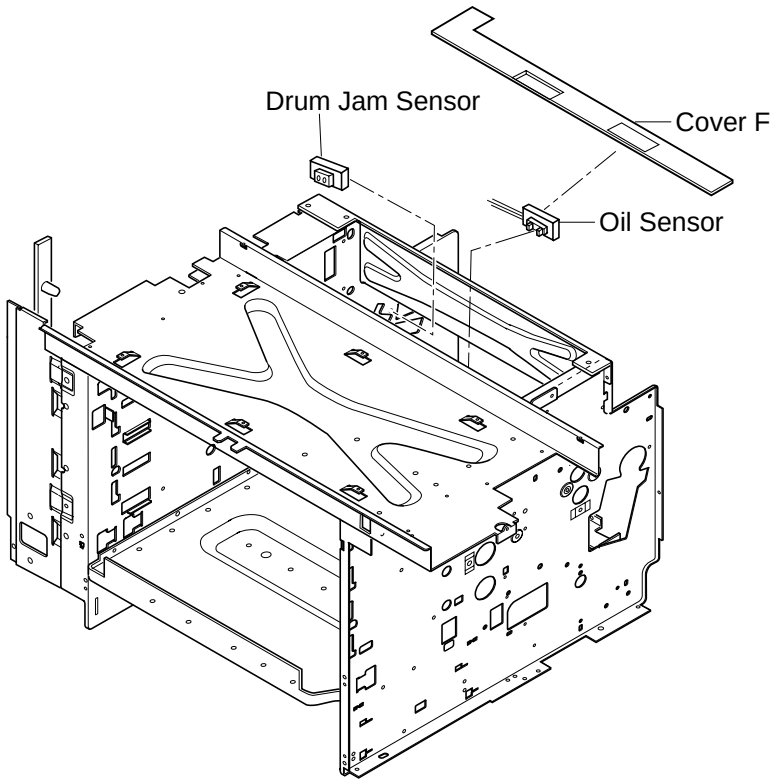
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the fuser unit.
2. Remove the photoconductor belt module.
3. Remove the drum cleaner.
4. Remove the transfer drum. (See the item 7.6.3.)
5. Remove the sensor cover.
6. Disconnect all the connectors connected with the drum jam sensor.
7. Remove the drum jam sensor from the stay B.

Assembly Procedures

1. Install a new drum jam sensor (DPJ) to the stay B.
2. After the above, follow exactly the reverse order of disassembling procedures.



7.5.7 Oil Sensor (OIL)

Tools

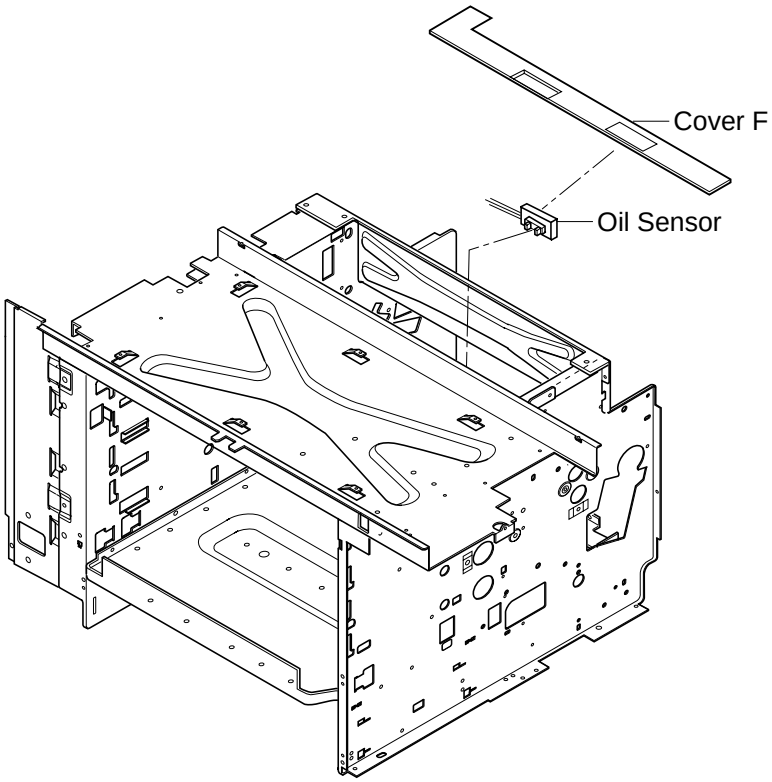
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the fuser unit.
2. Remove the side cover (LU). (See the item 7.1.1.)
3. Remove the side cover (L). (See the item 7.1.2.)
4. Remove the top cover. (See the item 7.1.4.)
5. Remove the controller case 'A' assembly. (See the item 7.2.5.)
6. Disconnect the oil sensor connector.
7. Remove the sensor cover.
8. Remove the set screw ST3 6 (2 pcs.) of oil sensor.
9. Remove the oil sensor.

Assembly Procedures

1. Install a new oil sensor.
2. After the above , follow exactly the reverse order of disassembling procedures.



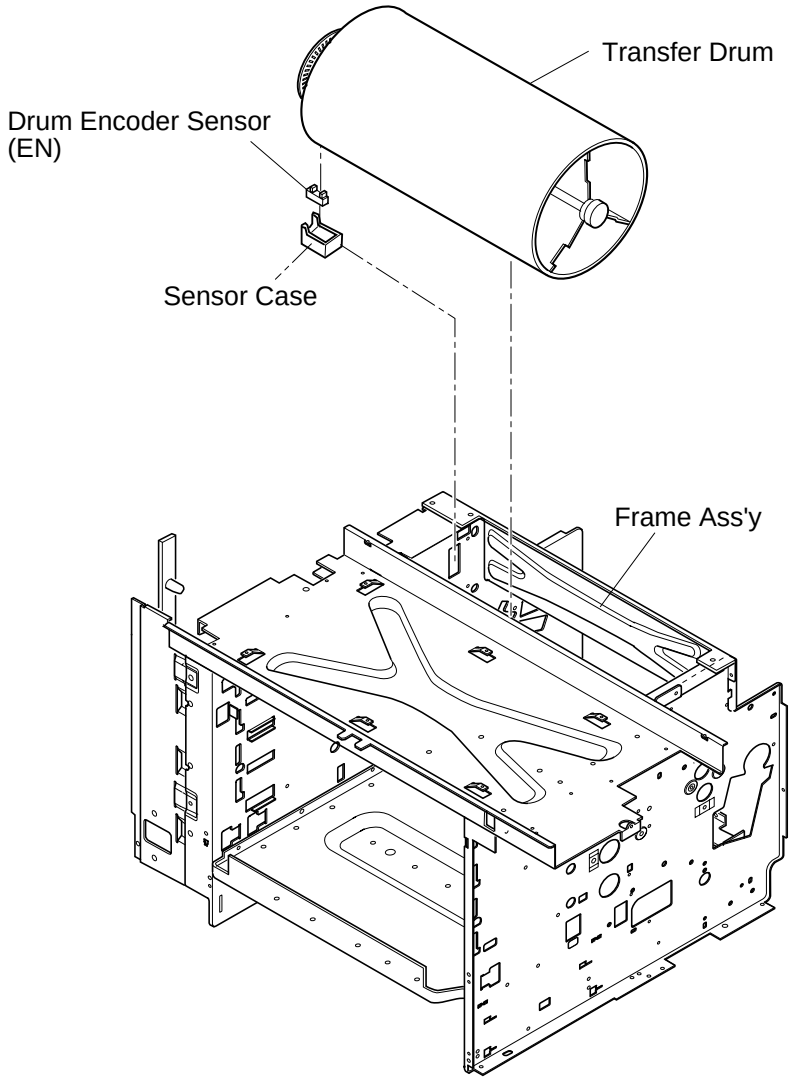
7.5.8 Drum Encoder Sensor (EN)

Tools

Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the toner module.
2. Remove the photoconductor belt module.
3. Remove the drum cleaner.
4. Remove the fuser unit.
5. Remove the side cover (L). (See the item 7.1.2.)
6. Remove the top cover. (See the item 7.1.4.)
7. Remove the transfer drum. (See the item 7.6.3.)
8. Remove the high voltage unit. (See the item 7.2.6.)
9. Remove the sensor holder assembly from the frame (L).
10. Disconnect the connectors connected with the encoder sensor.
11. Remove the encoder sensor from the sensor holder.



Assembly Procedures

1. Install a new drum encoder sensor to the sensor holder.
2. Connect the connectors with the encoder sensor.
3. Install the sensor holder assembly to the frame (L).
4. After the above , follow exactly the reverse order of disassembling procedures.

7.5.9 Belt Sensor (PBS)

Tools

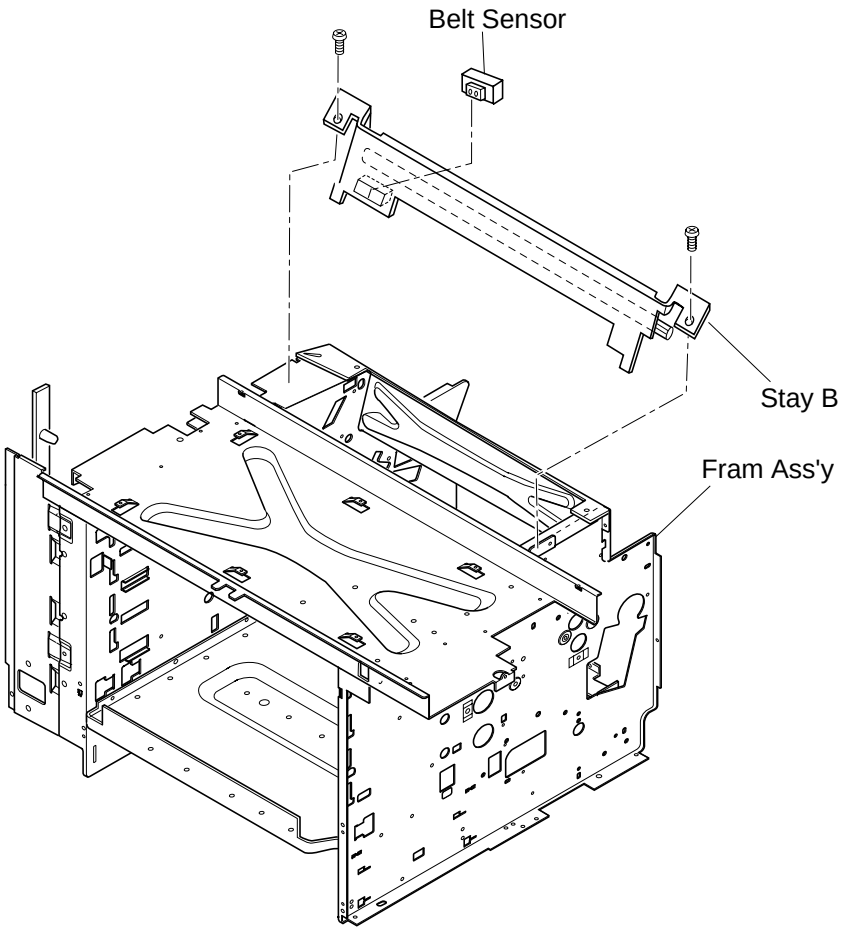
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the toner module.
2. Remove the photoconductor belt module.
3. Remove the drum cleaner.
4. Remove the top cover. (See the item 7.1.4.)
5. Remove the control fan assembly. (See the item 7.3.4.)
6. Remove the set screw ST3 6 (2 pcs.) of the stay 'A'.
7. Pull up the stay 'A'.
8. Disconnect all the connectors connected with the belt sensor.
9. Remove the belt sensor from the stay 'A'.

Assembly Procedures

1. Install a new belt sensor to the stay 'A'.
2. Connect the connectors with the belt sensor.
3. After the above , follow exactly the reverse order of disassembling procedures.



7.5.10 Waste Toner Sensor (WTS)

Tools

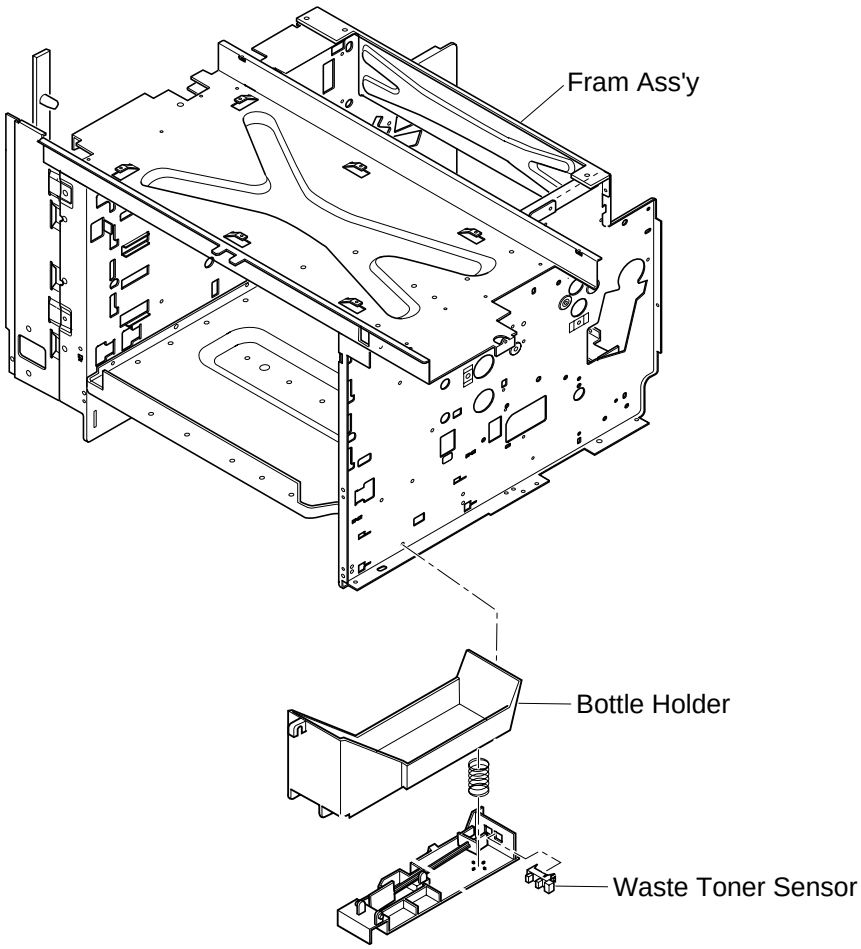
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the side cover (R). (See the item 7.1.3.)
2. Lift up the bottle holder. (Remove the waste toner sensor by removing the hooked pawl.)
3. Disconnect all the connectors connected with the waste toner sensor.

Assembly Procedures

1. Install a new waste toner sensor.
2. Connect the connectors with the waste toner sensor.
3. After the above, follow exactly the reverse order of disassembling procedures.



7.5.11 Toner Sensor Assembly (TPD)/(TTR)

Tools

Phillips Screwdriver #1, #2

Disassembly Procedures

(TPD):

1. Remove the side cover (R). (See the item 7.1.3.)
2. Remove the developer drive unit. (See the item 7.3.2.)
3. Remove the set screw ST3 6 (2 pcs.) of toner sensor Circut Card.
4. Disconnect all the connectors connected with the toner sensor Circut Card.

(TTR):

1. Remove the side cover (L). (See the item 7.1.2.)
2. Remove the high voltage unit (HVU). (See the item 7.2.6.)
3. Remove the DC power supply unit (LVPS). (See the item 7.2.5.)
4. Remove the set screw ST3 6 (3 pcs.) of toner sensor Circut Card.
5. Remove the toner sensor Circut Card.

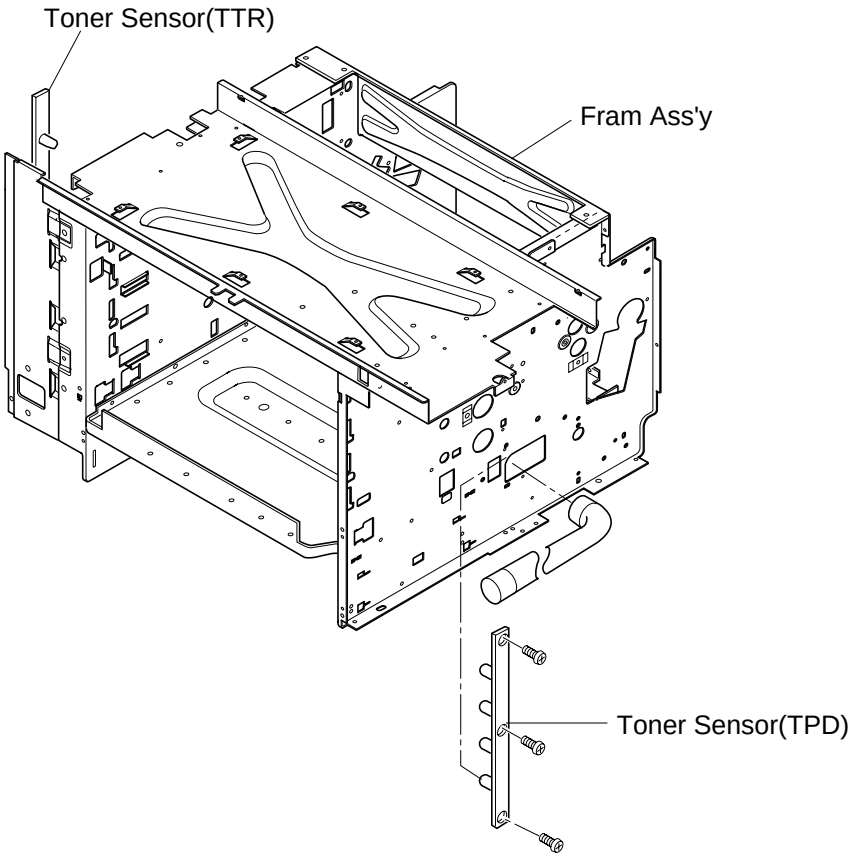
Assembly Procedures

(TPD):

1. Connect the connectors with a new toner sensor Circut Card.
2. Install the toner sensor Circut Card. to the engine frame (R).

(TTR):

1. Connect the connectors with a new toner sensor Circut Card.
2. Install the toner sensor Circut Card. to the engine frame (L).
3. After the above, follow exactly the reverse order of disassembling procedures.


Toner Sensor(TTR)
Fram Ass'y
Toner Sensor(TPD)

7.6 Replacement of Rollers and the Drum

7.6.1 Transfer Unit

Tools

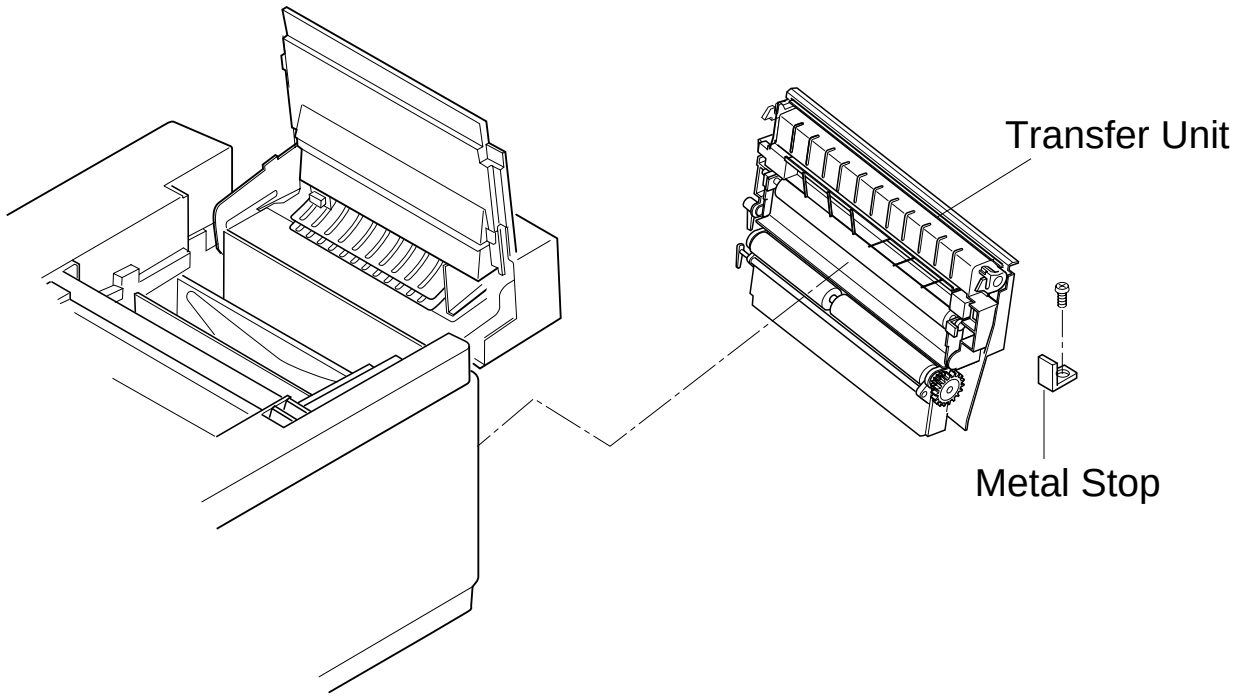
Phillips Screwdriver #1

Disassembly Procedures

1. Remove the set screw ST3 6 (1 pc.) of transfer unit metal stop.
2. Open the front cover unit.
3. Remove the support shaft from the installation hole of frame.
4. Remove the transfer unit.

Assembly Procedures

1. Have a new transfer unit meet the installation hole of base.
2. Install the transfer unit fixing metal.



7.6.2 Register Roller

Tools

Phillips Screwdriver #1

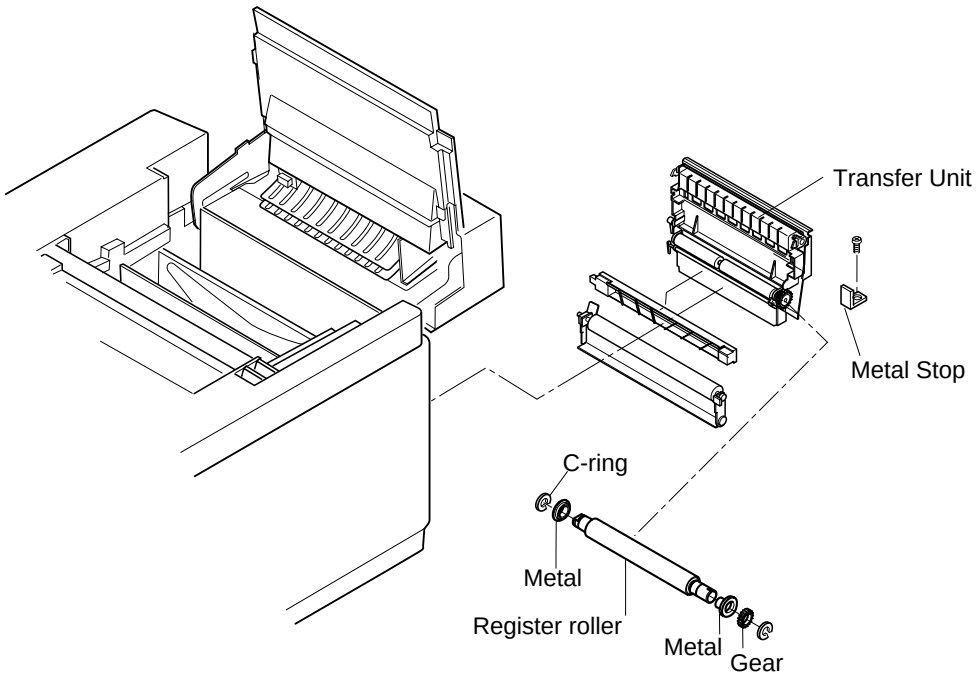
Slotted Screwdriver #1

Disassembly Procedures

1. Open the transfer unit.
2. Remove the roller fixing C ring at both sides.
3. Remove the gear from the shaft.
4. Remove the shaft support at the both sides.
5. Remove the register roller.

Assembly Procedures

1. Prepare a new register roller.
2. Install the register roller to the frame's hole.
3. Install the shaft support at the both sides.
4. Install the gear to the shaft.
5. Secure the shaft support and gear with the C- ring.



7.6.3 Transfer Drum

Tools

Phillips Screwdriver #1, #2

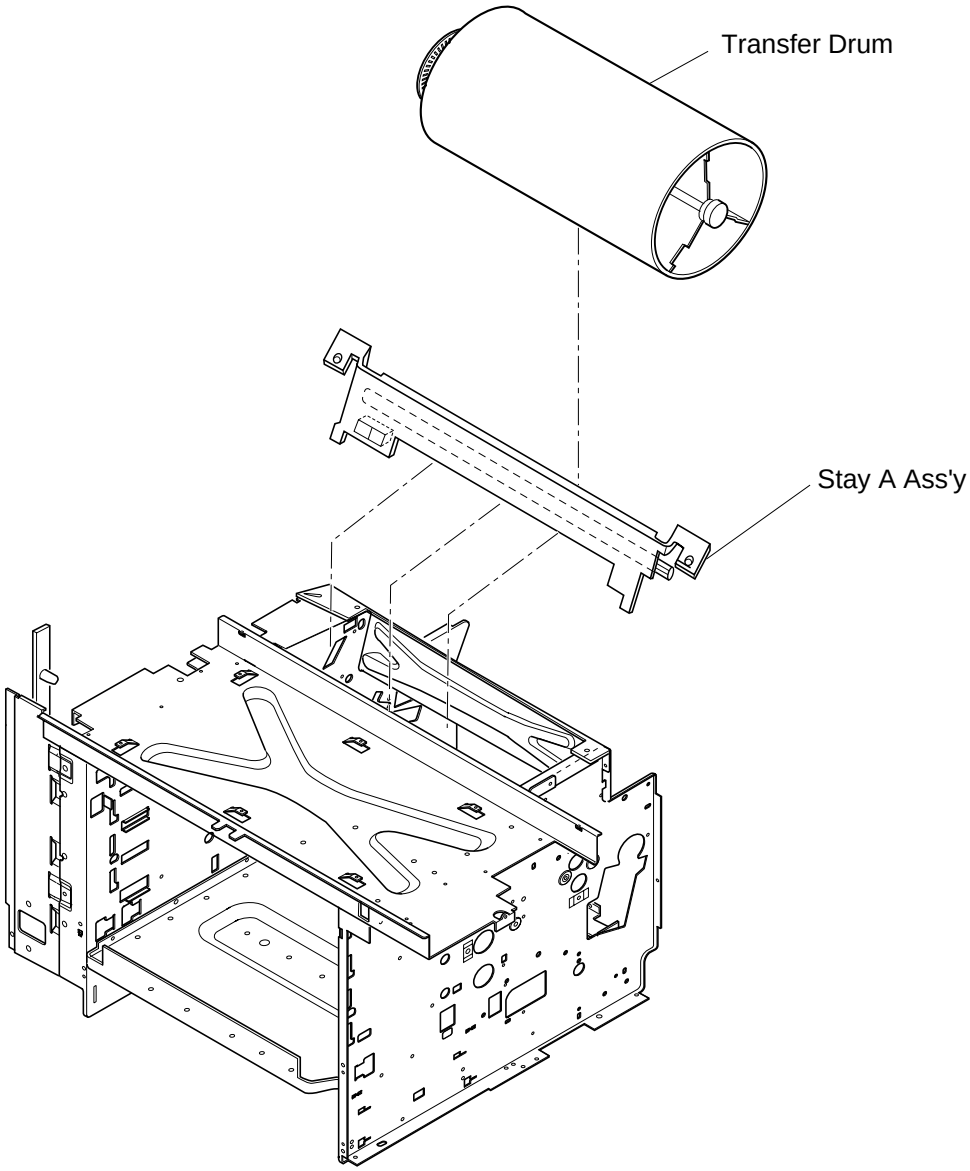
Disassembly Procedures

1. Remove the toner module.
2. Remove the photoconductor belt module.
3. Remove the fuser unit.
4. Remove the cleaner cover.
5. Remove the drum cleaner.
6. Open the transfer unit.
7. Remove the top cover. (See the item 7.1.4.)
8. Remove the control fan assembly. (See the item 7.3.4.)
9. Remove the connector connected to the belt marker sensor.
10. Remove the set screw ST3 6 (2 pcs.) of stay 'A'.
11. Wrap transfer drum surface with paper so that the transfer drum will not be scratched.
12. Remove the stay 'A' assembly.
13. Push the transfer drum from the transfer unit side, and remove the transfer drum from the shaft support.
14. Pull up and remove the transfer drum from the top.

Assembly Procedures

1. Put a new transfer drum into main body from the top.
2. Have the transfer drum's shaft meet the drum shaft support.
3. Pushing the transfer drum, fit it into the shaft support.
4. Install the stay A assembly.
5. After the above, follow exactly the reverse order of disassembling procedures.

Caution! Do not touch the transfer drum surface with bare hands, or scratch it.


Transfer Drum
Stay A Ass'y

7.6.4 Paper Feed Roller/Separator Pad

Tools

Phillips Screwdriver #1

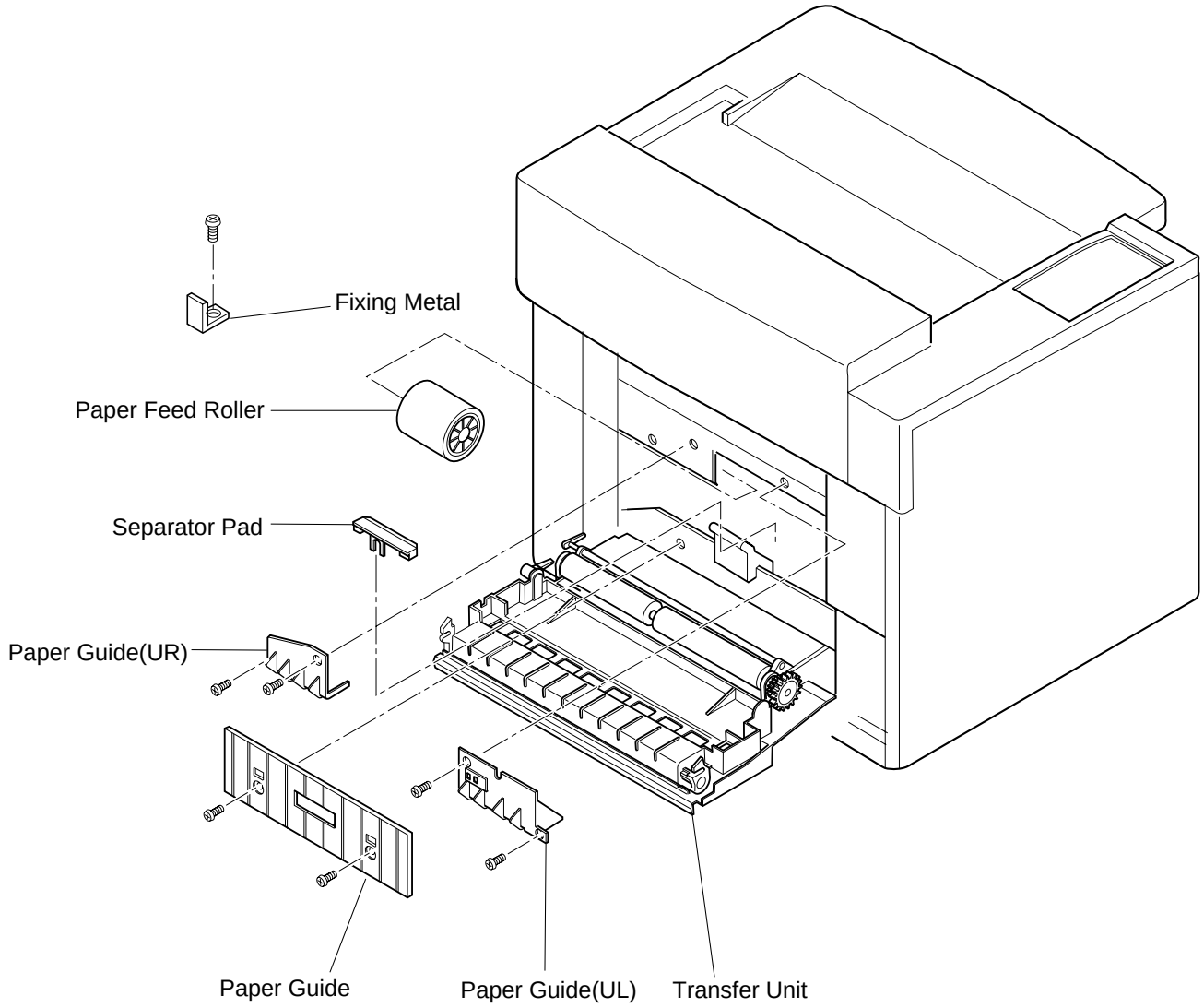
Disassembly Procedures

1. Remove the paper feeding cassette.
2. Remove the transfer unit. (See the item 7.6.1.)
3. Remove the set screw ST3 6 (2 pcs.) of paper guide (L).
4. Remove the paper guide (L).
5. Remove the set screw ST3 6 (2 pcs.) of paper guide (UR).
6. Remove the paper guide (UR).
7. Disconnect all the harness connectors connected with the OHP sensor and paper sensor.
8. Sliding the paper feeding roller to the right side, remove it from the shaft.
9. Pull up and remove the separator pad.

Assembly Procedures

1. Install a new separator pad.
2. Install a new paper feed roller.
3. After the above, follow exactly the reverse order of disassembling procedures.

Caution! Do not touch the surface of paper feed roller and separator pad.


Fixing Metal
Paper Feed Roller
Separator Pad
Paper Guide(UR)
Paper Guide
Paper Guide(UL)
Transfer Unit

7.6.5 Front Cover Unit

Tools

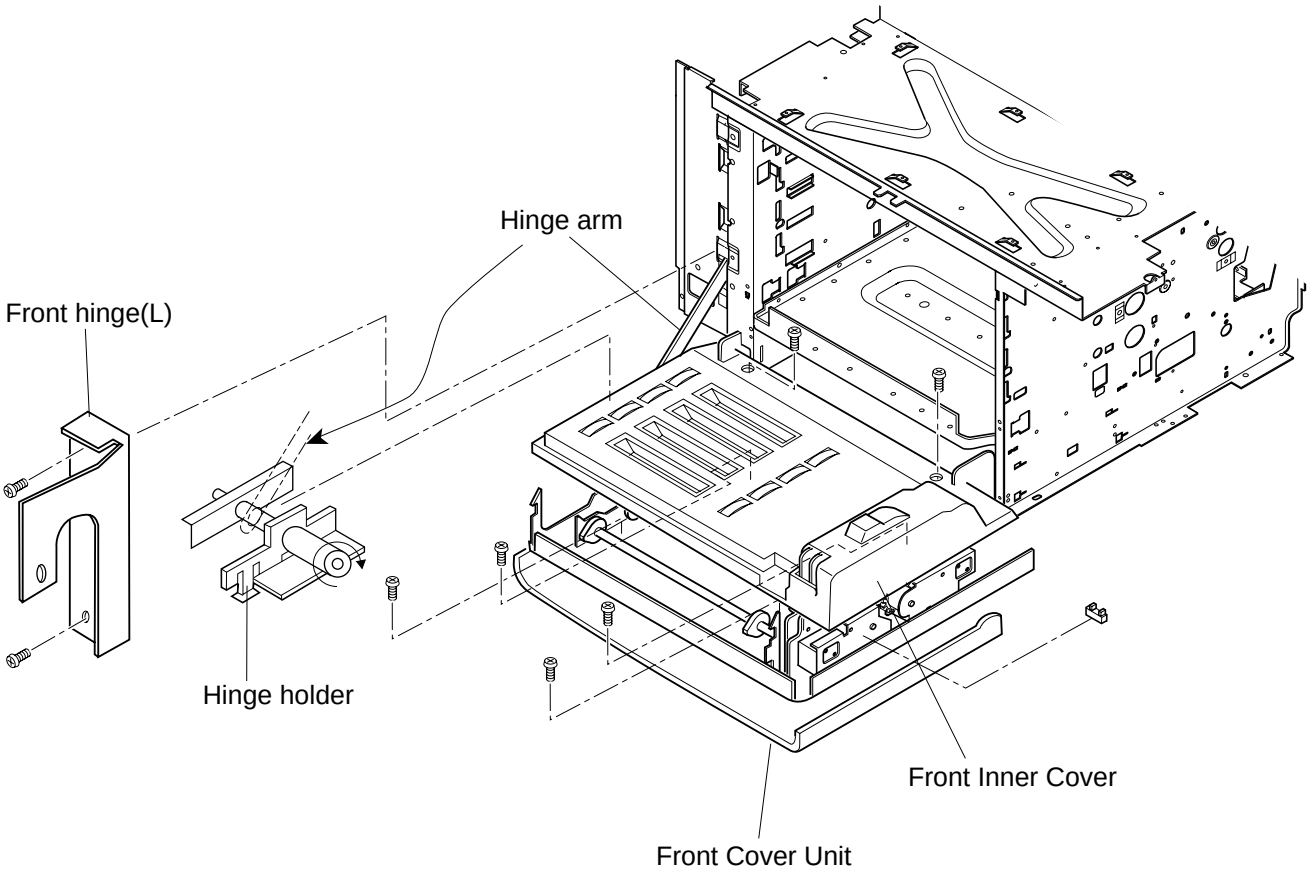
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the side cover (L).(See the item 7.1.2.)
2. Remove the base cover (L). (See the item 7.1.10.)
3. Open the front cover unit.
4. Remove the set screw BT4 8 (2 pcs.) of front cover (inner).
5. Remove the coupling arm of waster toner tray.
6. Release the hinge holder of hinge arm's fixing pin.
7. Remove the fixing pin, and remove the coupling of hinge arm.
8. Remove the front cover (inner).
9. Disconnect all the harness connectors connected with the developer position sensor and developer solenoid.
10. Remove the set screw ST3 6 (2 pcs.) of front hinge (L).
11. Remove the front hinge (L) from the frame.
12. Sliding the front cover unit to the right side, remove the coupling of hinge's fixing pin at the right side.

Assembly Procedures

1. Prepare a new front cover unit assembly.
2. Couple the hinge pin of right side with the front cover unit.
3. Have the hook of left front hinge (L) meet the frame, hook the left front hinge.
4. Fix the front hinge (L) by screwing.
5. Couple the hinge arm to the front cover with the fixing pin.
6. Lock the fixing pin with the hinge holder.
7. After the above, follow exactly the reverse order of disassembling procedures.


Hinge arm
Front hinge(L)
Hinge holder
Front Inner Cover
Front Cover Unit

7.6.6 Paper Exit Roller

Tools

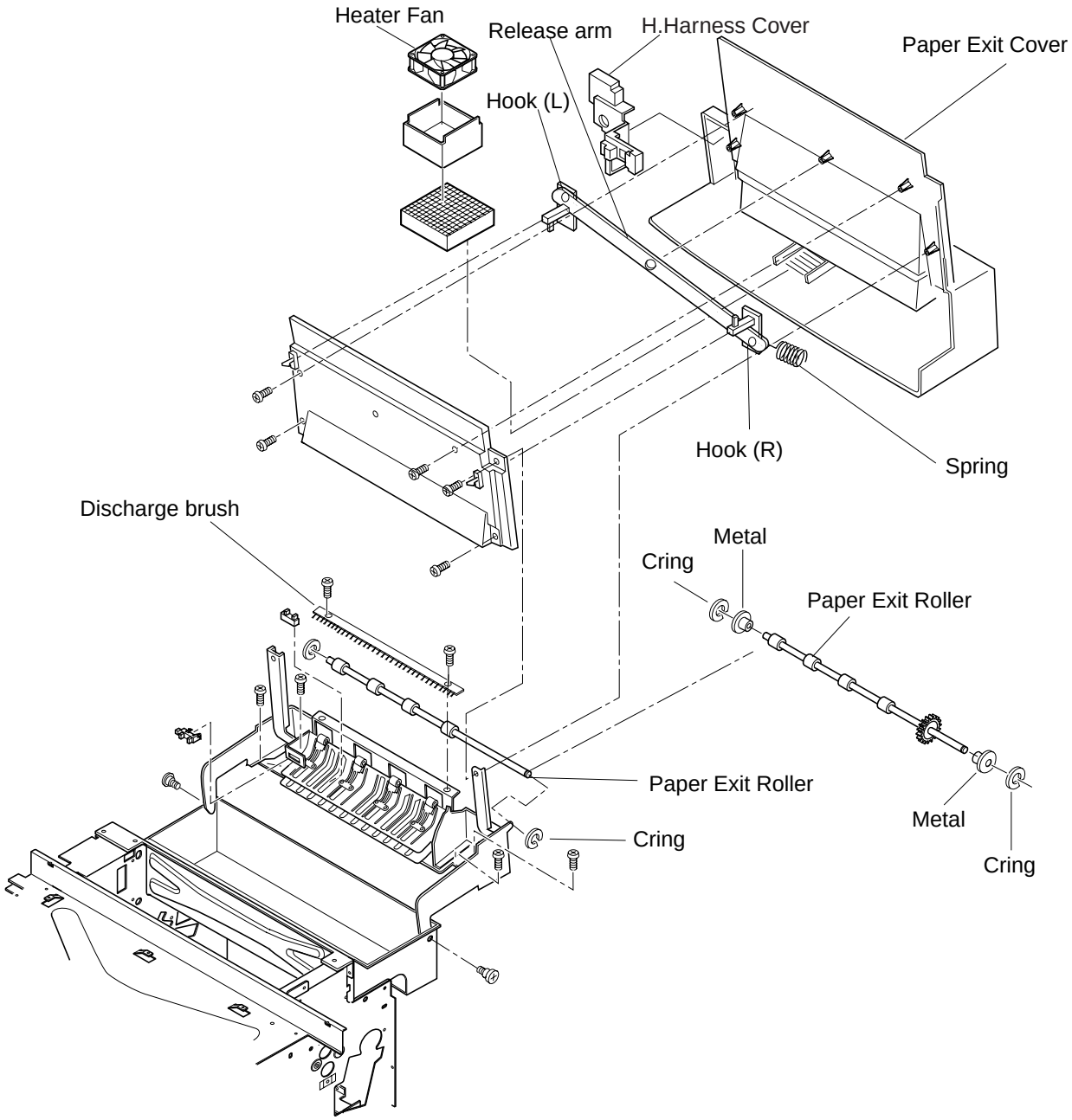
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the paper exit unit. (See the item 7.1.5.)
2. Remove the paper exit cover. (See the item 7.1.5.)
3. Remove the C ring of both sides (left and right).
4. Remove the shaft support at the both sides.
5. Remove the paper exit roller from the frame.

Assembly Procedures

1. Put a new paper exit roller through the frame's hole.
2. Install the shaft support of both sides (left and right).
3. Install the C ring of both sides to the groove of paper exit roller.


Heater Fan
Release arm
H.Harness Cover
Paper Exit Cover
Hook (L)
Hook (R)
Spring
Discharge brush
Metal
Cring
Paper Exit Roller
Paper Exit Roller
Metal
Cring
Cring

7.6.7 Discharger Brush

Tools

Phillips Screwdriver #1, #2

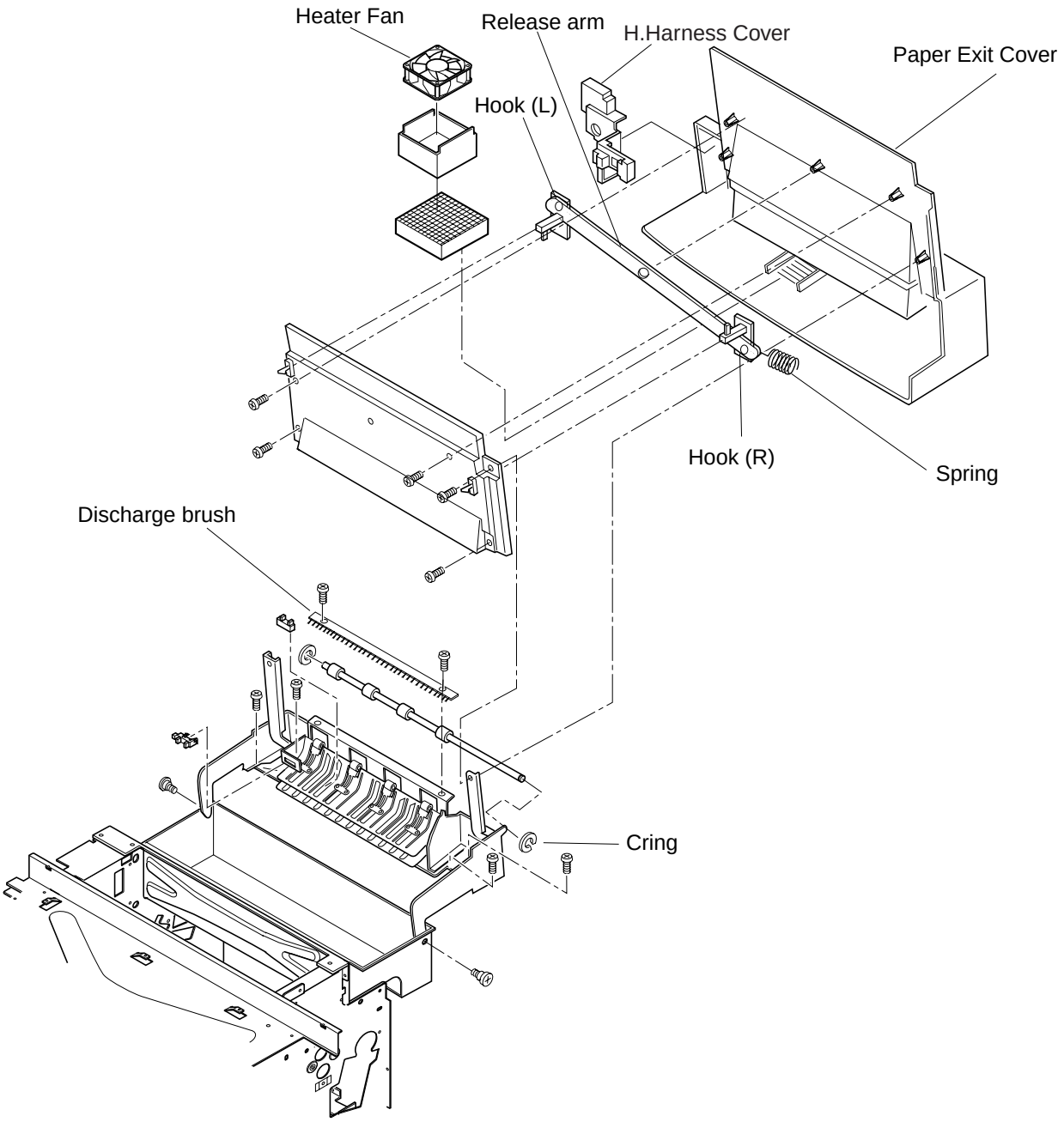
Disassembly Procedures

1. Remove the paper exit unit. (See the item 7.1.5.)
2. Remove the paper exit cover. (See the item 7.1.5.)
3. Remove the paper exit front cover.
4. Remove the set screw BT4 6 (2 pcs.) of discharger brush.
5. Remove the discharger brush.

Assembly Procedures

1. Install a new discharger brush to the paper exit unit.

Caution! Do not deform the fur brush of discharger brush.


Heater Fan
Release arm
H.Harness Cover
Paper Exit Cover
Hook (L)
Hook (R)
Spring
Discharge brush
Cring

7.6.8 Waste Toner Feeder D (Stay 'A' Assembly)

Tools

Phillips Screwdriver #2

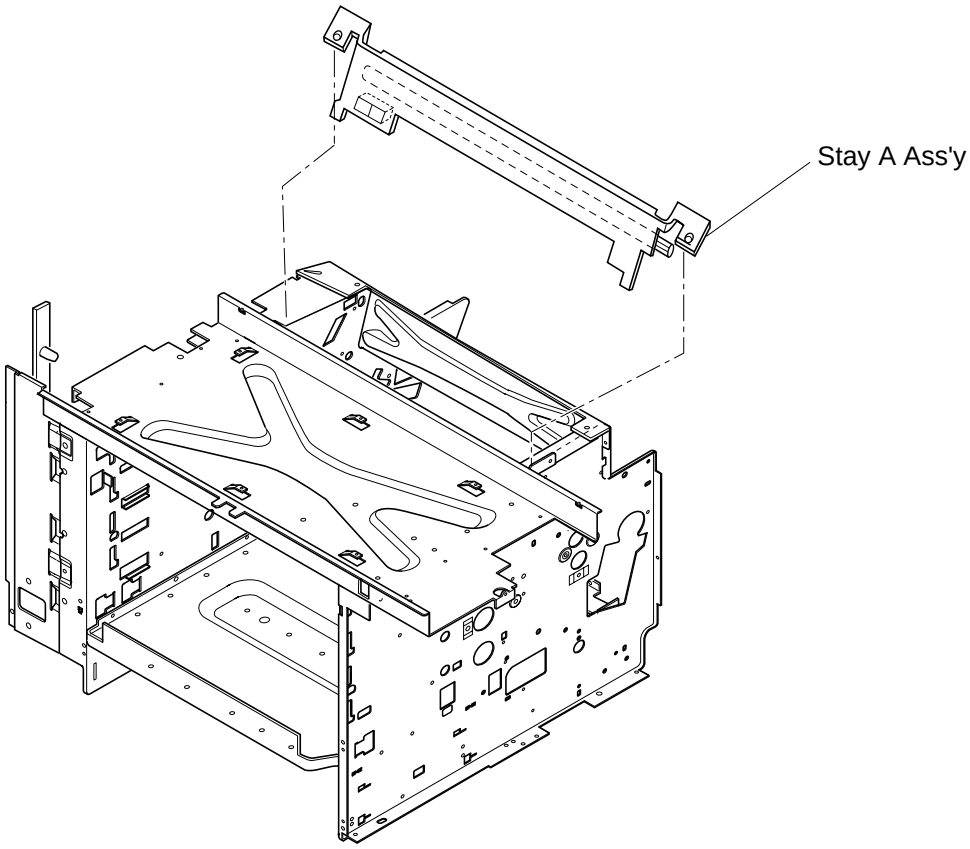
Disassembly Procedures

1. Remove the photoconductor belt module.
2. Remove the toner module.
3. Remove the drum cleaner.
4. Remove the side cover (LU). (See the item 7.1.1.)
5. Remove the top cover. (See the item 7.1.4.)
6. Remove the control fan assembly. (See the item 7.3.5.)
7. Remove the set screw ST3 6 (2 pcs.) of stay 'A'.
8. Disconnect the connector connected with the belt sensor.
9. Pull up the stay 'A' assembly along the guide.

Assembly Procedures

1. Install the new stay 'A' assembly.
2. After the above, follow exactly the reverse order of disassembling procedures.

Caution! Do not touch or scratch the transfer drum.
Do not deform the sealing mylar of waste toner feeder D.


Stay A Ass'y

7.6.9 Fuser Connector

Tools

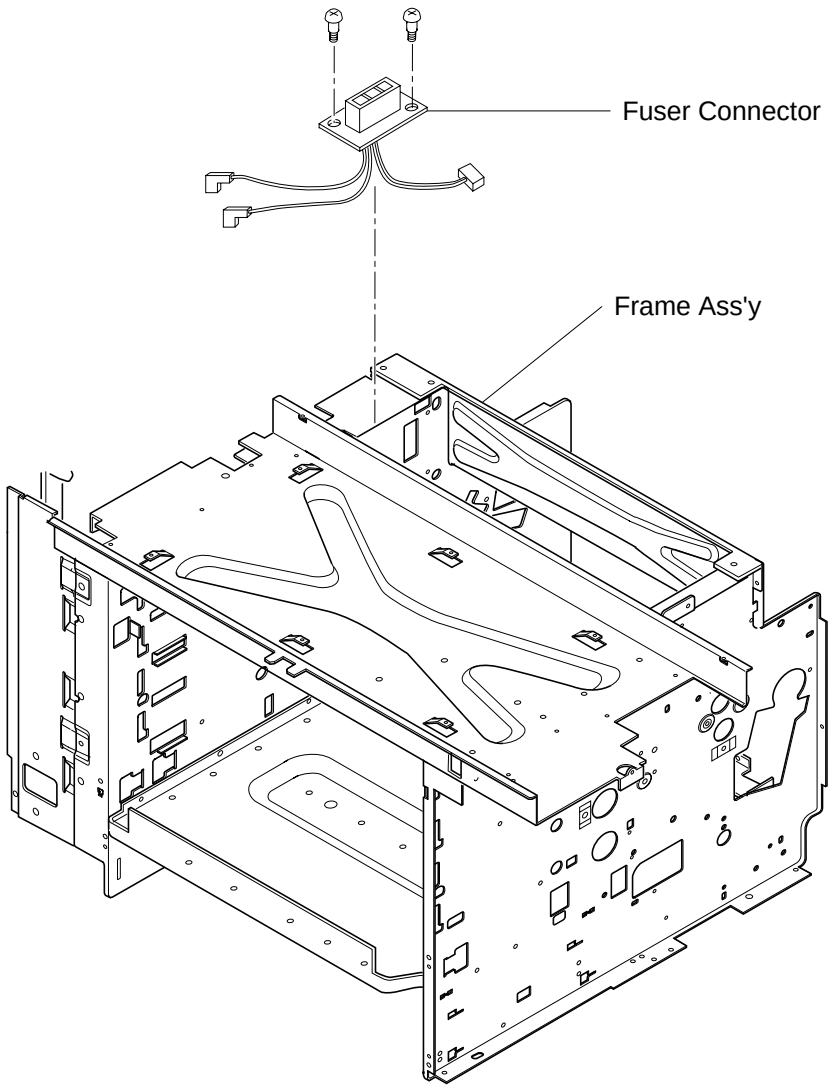
Phillips Screwdriver #1, #2

Disassembly Procedures

1. Remove the fuser unit.
2. Remove the side cover (L). (See the item 7.1.2.)
3. Remove the shield case A assembly. (See the item 7.2.5.)
4. Remove the PN/PH connector connected with the DC power supply unit.
5. Remove the set screw SP3 8 (2 pcs.) of fuser connector.
6. Remove the fuser connector. * Set screw of fuser connector is unique.

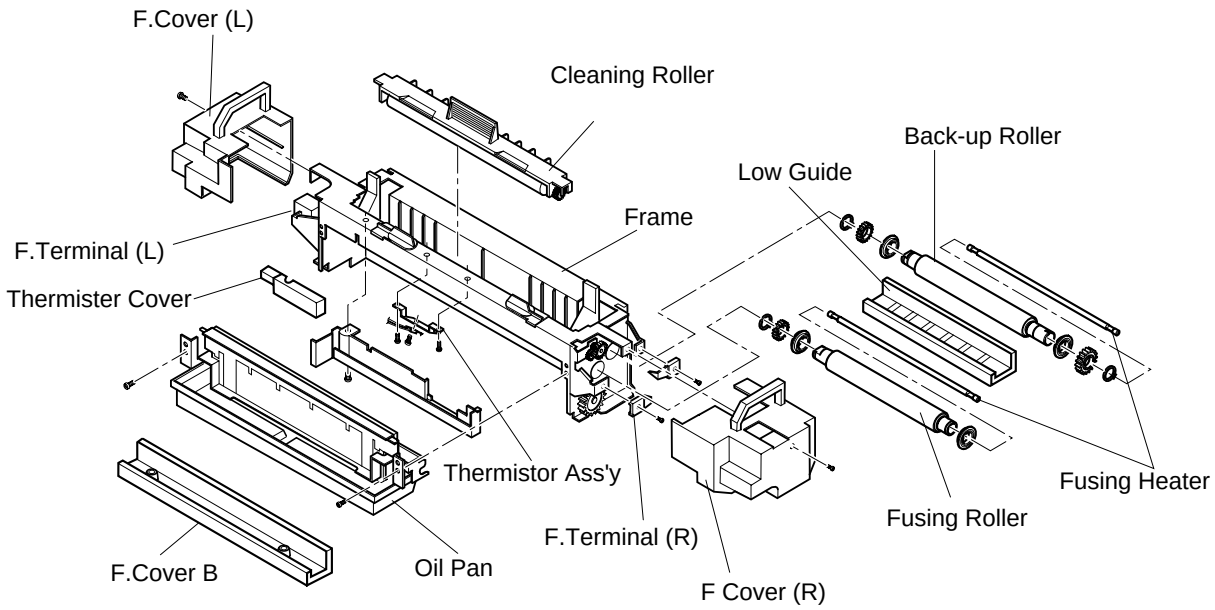
Assembly Procedures

1. Install a new fuser connector.
2. After the above, follow exactly the reverse order of disassembling procedures.



7.7 Replacement of Fuser Unit

[Layout of Fuser Unit Parts]



Caution!

1. Fuser unit consists of important parts in terms of the safety. Therefore, replacement of parts or disassembly and maintenance work should be done at the appropriate facilities by skillful service personnel acquainted with electrical safety. After the assembling work, the product safety should be reconfirmed.

2. Since the fuser unit is very hot, make sure that the fuser unit and perimeter is well cooled down prior to starting the replacement of parts. Otherwise, you may get burn when touching the hot areas.

3. Fuser unit contains the silicone oil. Care not to drop the silicone oil on the floor, otherwise, the floor is very slippery and dangerous.

7.7.1 Fusing Heater Lamp

Tools

Phillips Screwdriver #1, #2

Disassembly Procedures : See the layout of fuser unit parts.

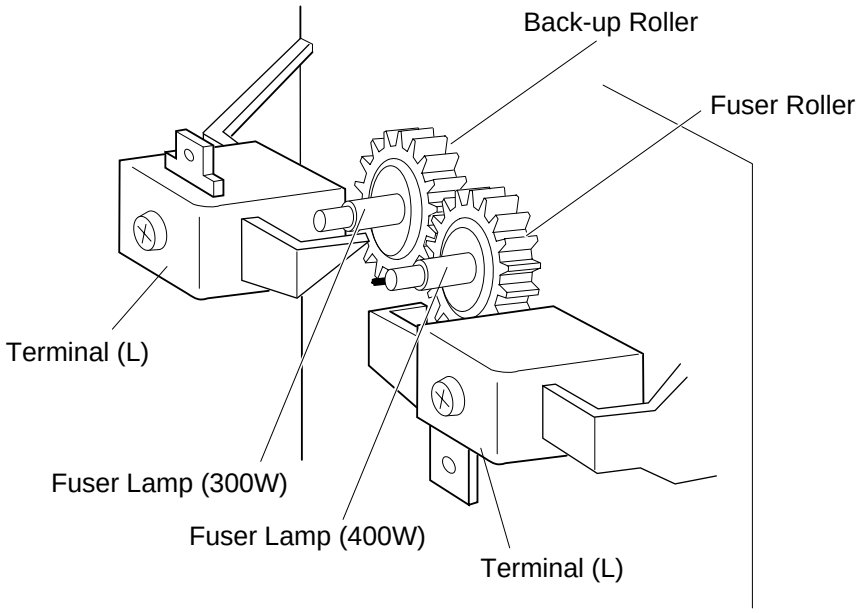
1. Remove the set screw ST3X6 (1 pc.) of F. cover (L), and F. cover (L).
2. Remove the set screw ST3X6 (1 pc.) of F. cover (R), and F. cover (R).
3. Pull F. terminal (L) of fuser roller side toward you, and remove the fusing heater lamp (400W) from F. terminal.
4. Pull out the fusing heater lamp (400W) from the fuser roller (inside).
5. Pull F. terminal (L) of back-up roller side toward you, and remove the fusing heater lamp (300W) from F. terminal.
6. Pull out the fusing heater lamp (300W) from the back-up roller (inside).

Assembly Procedures

1. Prepare a new heater lamp (300W)/(400W). (2 heater lamps come in one set.)
2. Insert the heater lamp (300W) into the back-up roller.
3. Support the electrode of heater lamp with the F. terminal (R) and (L) at the back-up roller side.
4. Insert the heater lamp (400W) into the fuser roller.
5. Support the electrode of heater lamp with the F. terminal (R) and (L) at the fuser roller side.
6. Install F. terminal (L) and F. terminal (R).

Caution! Do not touch the surface of heater lamp with dirty hands.
Capacity of the heater lamp is different between the fuser roller side and back-up roller side. Each capacity is marked on the insulator of lamp's electrode.

Fuser roller side: 400W (Length: 342mm)
Back-up roller side: 300W (Length: 332mm)


Back-up Roller
Fuser Roller
Terminal (L)
Fuser Lamp (300W)
Fuser Lamp (400W)
Terminal (L)

7.7.2 Fuser Roller

Tools

Phillips Screwdriver #1, #2

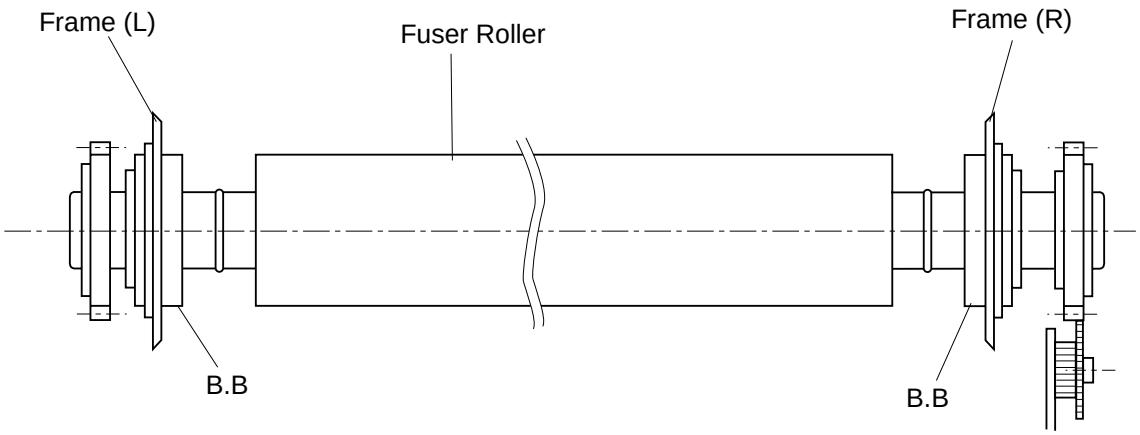
Disassembly Procedures : See the layout of fuser unit parts.

1. Remove the fusing heater lamp (400W).(See the item 7.7.1.)
2. Remove the set screw FST3X10 (1 pcs.) of F. terminal (R), and remove F. terminal (R)
3. Remove the set screw ST3X6 (2 pcs.) of oil pan.
4. Remove the oil pan.
5. Remove the set screw ST3X6 (2 pcs.) of frame assembly.
6. Open the upper face of frame assembly.
7. Remove the fuser roller from the frame.

Assembly Procedures

1. Install a new fuser roller to the frame.
2. After the above, follow exactly the reverse order of disassembling procedures.

Caution! Do not touch the surface of fuser roller with bare hands.
Do not let any foreign particle such as debris adhere to the surface of fuser roller.



7.7.3 Back-Up Roller

Tools

Phillips Screwdriver #1, #2

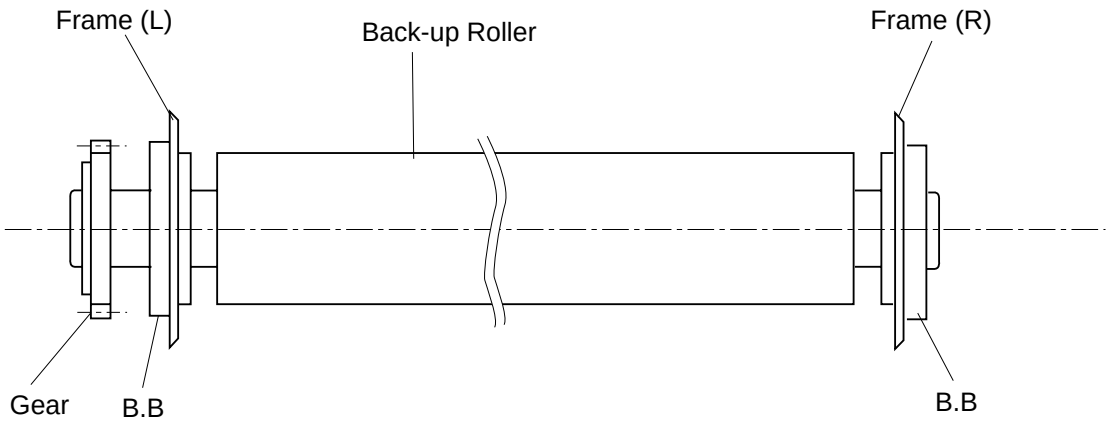
Disassembly Procedures : See the layout of fuser unit parts.

1. Remove the fusing heater lamp (300W).(See the item 7.7.1.)
2. Remove the set screw ST3X6 (2 pcs.) of oil pan.
3. Remove the oil pan.
4. Remove the set screw ST3X6 (2 pcs.) of F. cover 'B'.
5. Remove the F. cover 'B'.
6. Remove the set screw F4X6 (2 pcs.) of low guide.
7. Remove the low guide.
8. Remove the set screw ST3X6 (2 pcs.) of frame assembly.
9. Open the upper face of frame assembly.
10. Remove the back-up roller from the frame.

Assembly Procedures

1. Install a new back-up roller to the frame.
2. After the above, follow exactly the reverse order of disassembling procedures.

Caution! Do not let any foreign particle such as debris adhere to the surface of back-up roller.



7.7.4 Thermistor Assembly

Tools

Phillips Screwdriver #1, #2

Disassembly Procedures : See the layout of fuser unit parts.

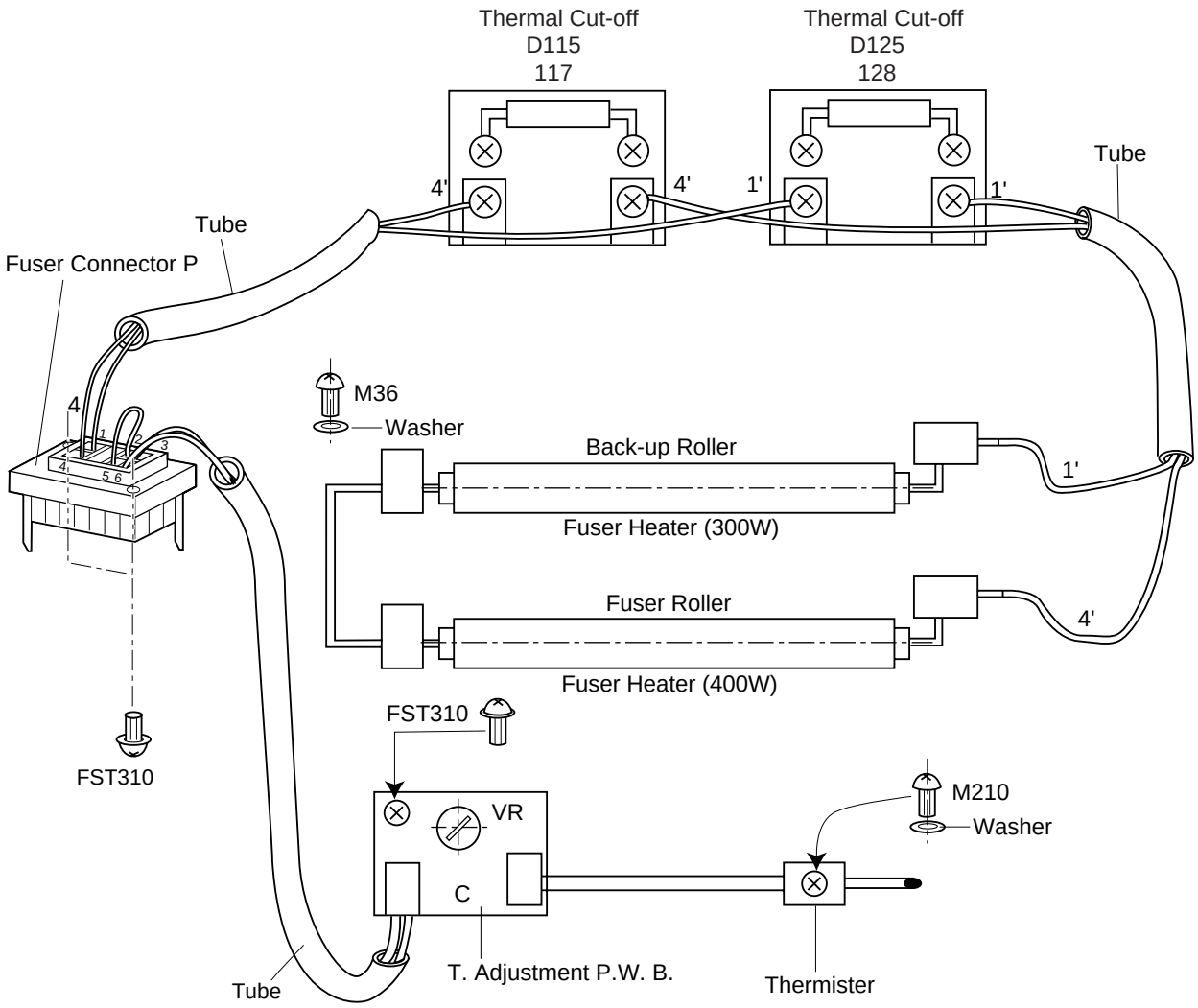
1. Remove the F. cover (R).
2. Remove the F. cover (L).
3. Remove the oil pan.
4. Remove the F. cover 'B'.
5. Remove the set screw BT3 8 of thermistor cover.
6. Remove the thermistor cover.
7. Remove the set screw M2X10 of thermistor.
8. Remove the thermistor.
9. Remove the set screw FST3X10 of temperature adjustment Circut Card.
10. Remove the temperature adjustment Circut Card.
11. Remove the set screw M3X6 of harness #4 connected to the temperature fuse base (D115).
12. Remove the set screw M3 X6 of harness #1 connected to the temperature fuse base (D125).
13. Remove the set screw FST3 X10 (2 pcs.) of fuser connector.
14. Remove the thermistor assembly (including fuser connector) from the fuser unit.

Assembly Procedures

1. Prepare a new thermistor assembly.
2. Follow exactly the reverse order of disassembling procedures. Care not to apply any extra force to the sensor of thermistor.

Caution!

1. Replacement work of the thermistor assembly is very much related with the product safety. Therefore, the replacement work should be done at the appropriate facilities by skillful service personnel acquainted with the electrical safety.
2. After the replacement work, make sure to implement the dielectric test of fuser unit (1500V, 1 minute), and confirm the temperature control.



Wiring of Fuser Unit