Chapter 3 Removal and Replacement Procedures (RRPs) CONTENTS

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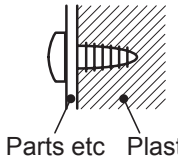
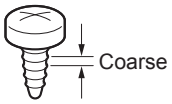
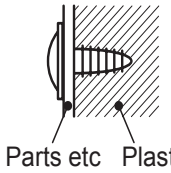
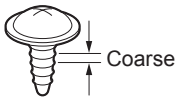
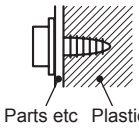
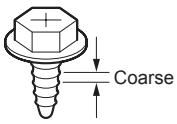
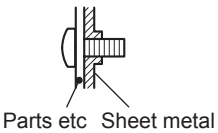
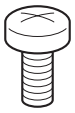
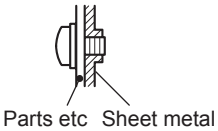
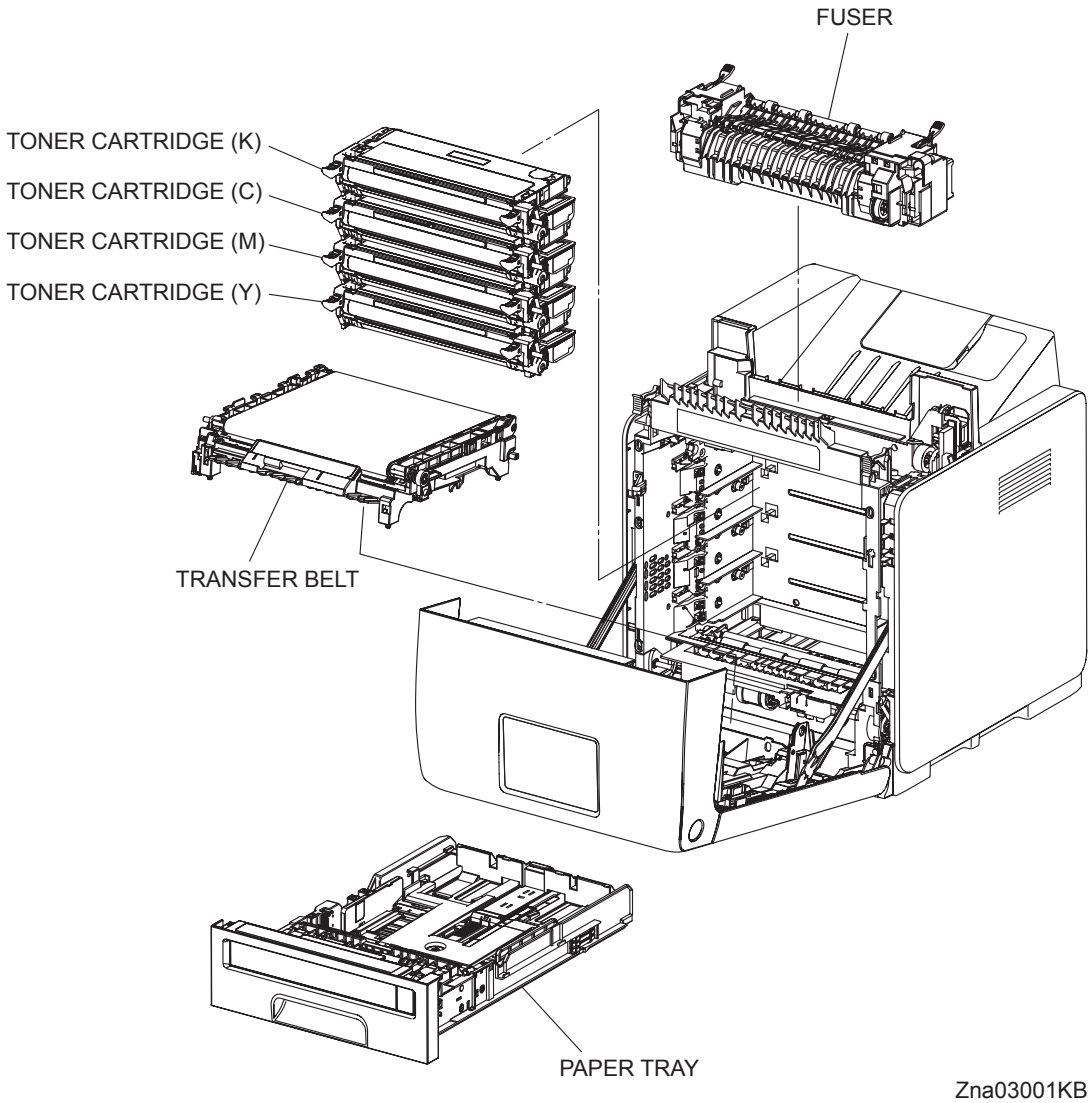
1. Removal and Replacement Procedures (RRPs)

1.1 Before starting service procedure

- Start the procedure after turning off the power and removing the power cord from the outlet.
- When performing the service operation around the FUSER ASSY, ensure that FUSER ASSY and its surrounding area have cooled down sufficiently.
- Pay sufficient attention to the parts during the procedure because they may be broken or may not perform their functions properly if unreasonable force is applied.
- Since various types of screws are used, ensure that the right screws are used in their right positions. Use special caution not to confuse the screws for plastic and the ones for sheet metal, because using the wrong type of screw may result in damage to the screw threads or other troubles.

No.	Type	Application	Shape	How to distinguish	Points to be noted	Major application locations
1	Screw for plastic Silver, tap	Plastic 		・Silver-colored ・Thread is coarser than that of the sheet metal type. ・Screw tip is thin.	Oblique screwing damages the thread because this screw cuts female threads in the base material as it goes in.	
2	Screw for plastic Silver, with flange, tap	Plastic 		・Silver-colored ・With flange ・Thread is coarser than that of the sheet metal type. ・Screw tip is thin.	Oblique screwing damages the thread because this screw cuts female threads in the base material as it goes in.	・Chute assy exit out
3	Screw for plastic Silver, tap, with flange	Plastic 		・Silver-colored ・It has a flange. ・Screw thread is coarse comparing to the sheet metal type. ・Screw tip is thin.	As it has a function to cut the thread by itself, if the screw is inserted in an angle and tightened, the screw thread will be damaged.	・LEVER FUSER D ・LEVER FUSER AD
4	Screw for metal sheet silver	Sheet metal 		・Silver-colored ・Diameter of the thread section is uniform.		
5	Screw for metal sheet Silver, with an external tooth washer	Sheet metal 		・Silver-colored ・Provided with an external tooth washer. ・Diameter of the thread section is uniform.		・Mounting positions of the ground wires.

- Wear a wristband or the like as far as possible to remove static electricity of the human body.
- Keep the front cover closed. Buzzer goes off when the machine is left powered on with the front cover open for five minutes or longer to prevent the drum deterioration due to exposure to light.
- When removing the toner cartridge in a removal/replacement operation, cover the drum to keep it from being exposed to light.
- Remove PAPER TRAY, TRANSFER BELT, TONER CARTRIDGE, and FUSER, and put them in a place where they do not affect the procedure. (Note that the service procedures can be performed with those parts in place depending on the target section of removal/replacement.).



1.2 General notes

- The string "(PL X.Y.Z)" suffixed to the part name in the procedure denotes that the part corresponds to the plate (PL) "X.Y", item "Z" of [Engineering Parts list], and its shape and fitting position can be checked in [Engineering Parts list].
- Directional descriptions used in the procedures are defined as follows:
  - -Front : Direction toward you when facing the front of the printer.
  - -Rear : Direction opposite to the front when facing the front of the printer.
  - -Left : Left-hand direction when facing the front of the printer.
  - -Right : Right-hand direction when facing the front of the printer.

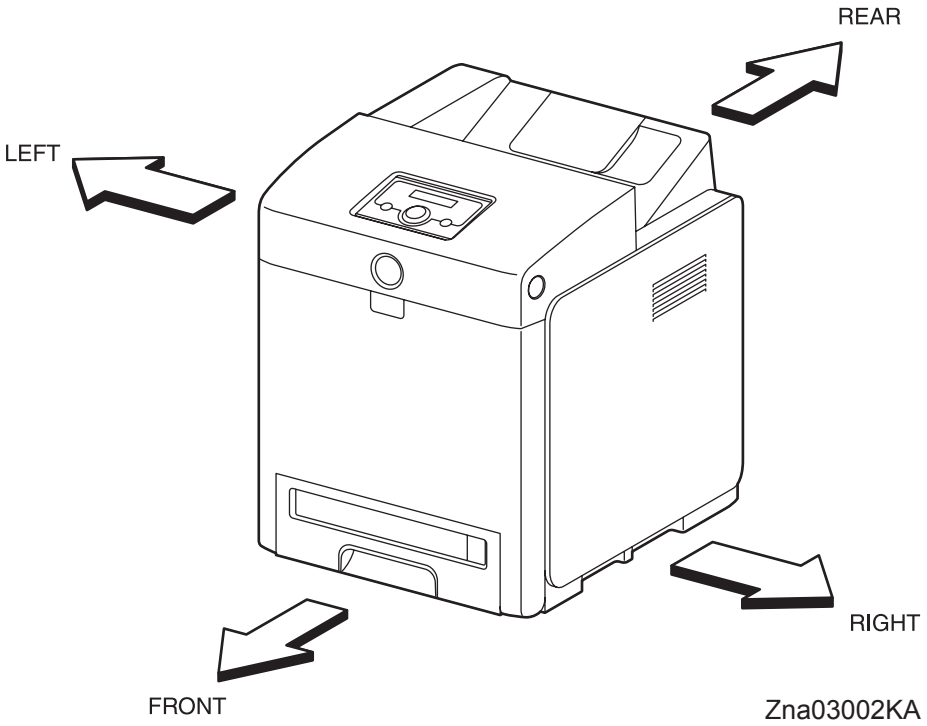
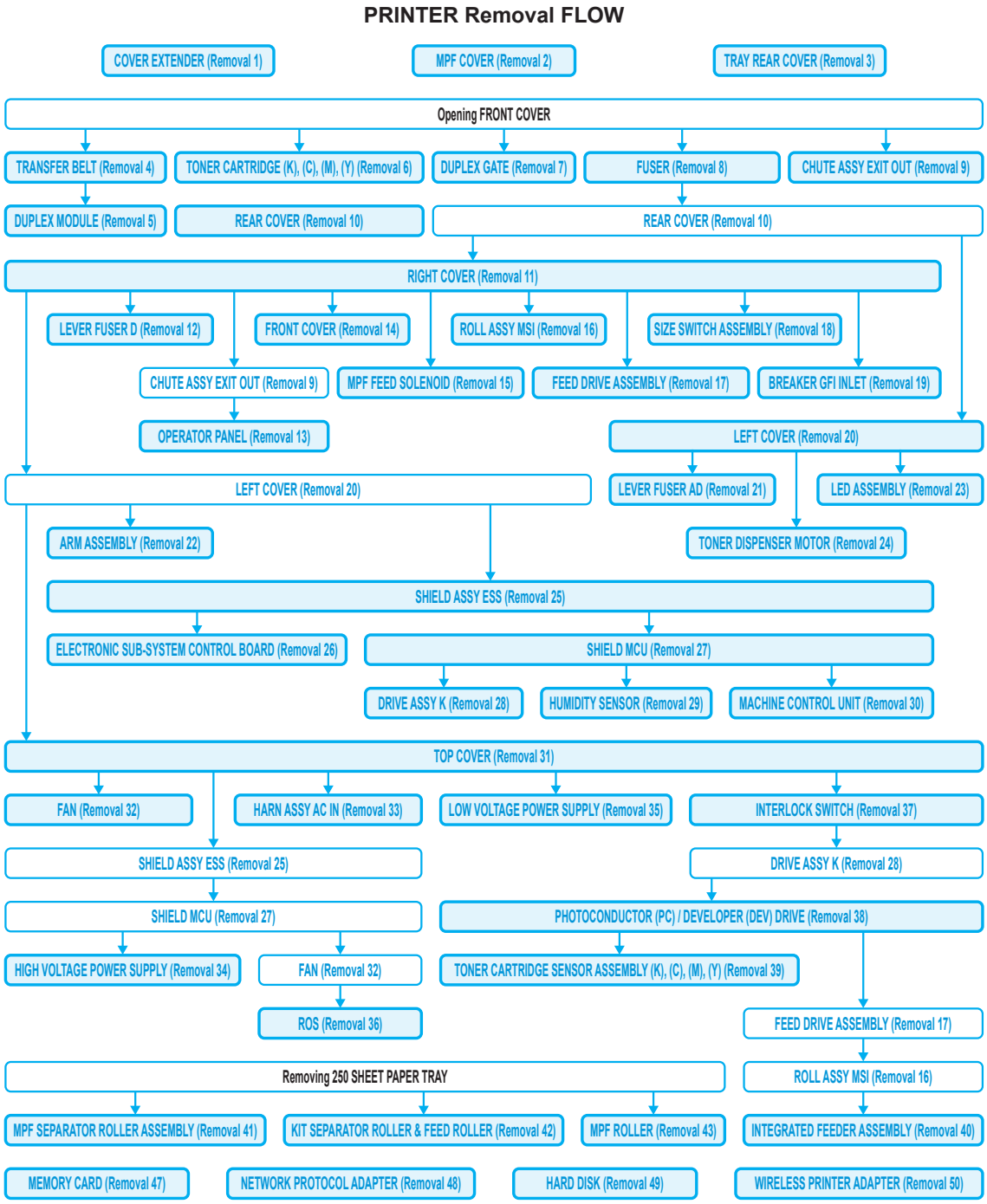


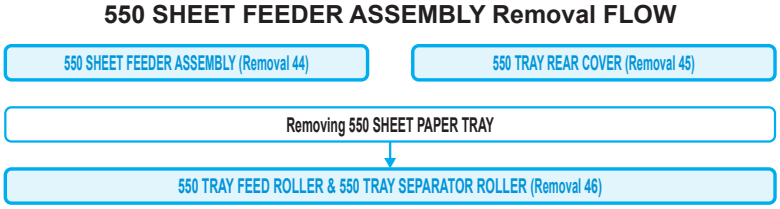
Figure: Definitions of Printer Orientation

- The string "(RRP X.Y)" that appears in or at the end of the procedure denotes that the related service procedure is described in [RRP X.Y].
- Screws shown in the illustrations are to be unscrewed and removed using a Phillips head (cross-slot) screwdriver, unless otherwise specified.
- Black arrows shown in the illustrations denote moving directions. When numbers are assigned to these arrows, they refer to the order in the procedure.
- Refer to [Chapter 4 Plug/Jack (P/J) Connector Locations] for the positions of connectors (P/J).

Removal Flows

The components not connected with arrows in the flow below can be removed independently.

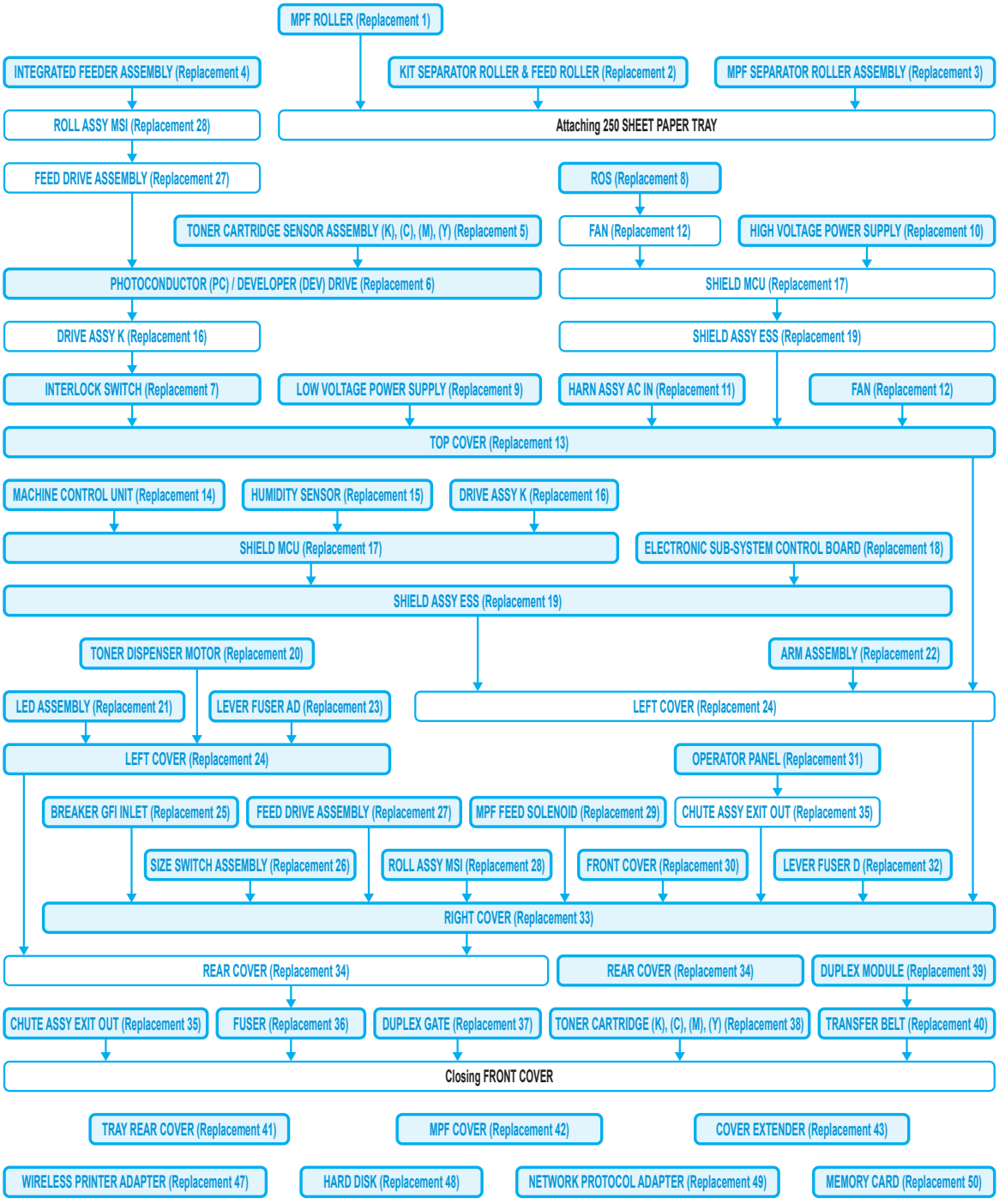




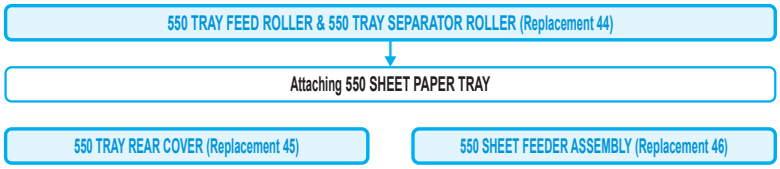
Replacement Flows

The components not connected with arrows in the flow below can be replaced independently. However, the rear cover is an exception when it was removed together with other parts.

PRINTER Replacement FLOW



550 SHEET FEEDER ASSEMBLY Replacement FLOW



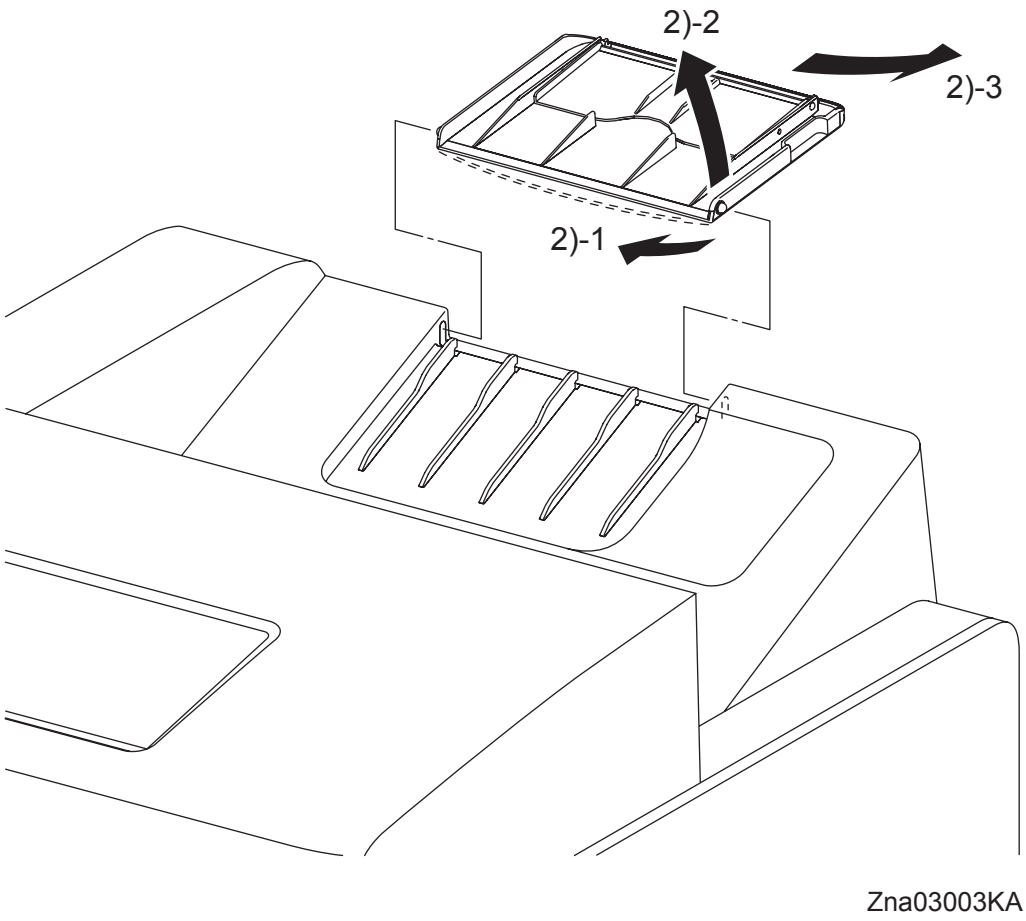
2. Removal Steps

Removal 1 COVER EXTENDER (PL1.1.9)

NOTE

When performing the step described below, take care not to damage the bosses on the COVER EXTENDER.

1) Open the COVER EXTENDER (PL1.1.9).



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2) Remove the COVER EXTENDER (PL1.1.9) by bending it and removing its left and right bosses from the holes on the TOP COVER (PL1.1.1).

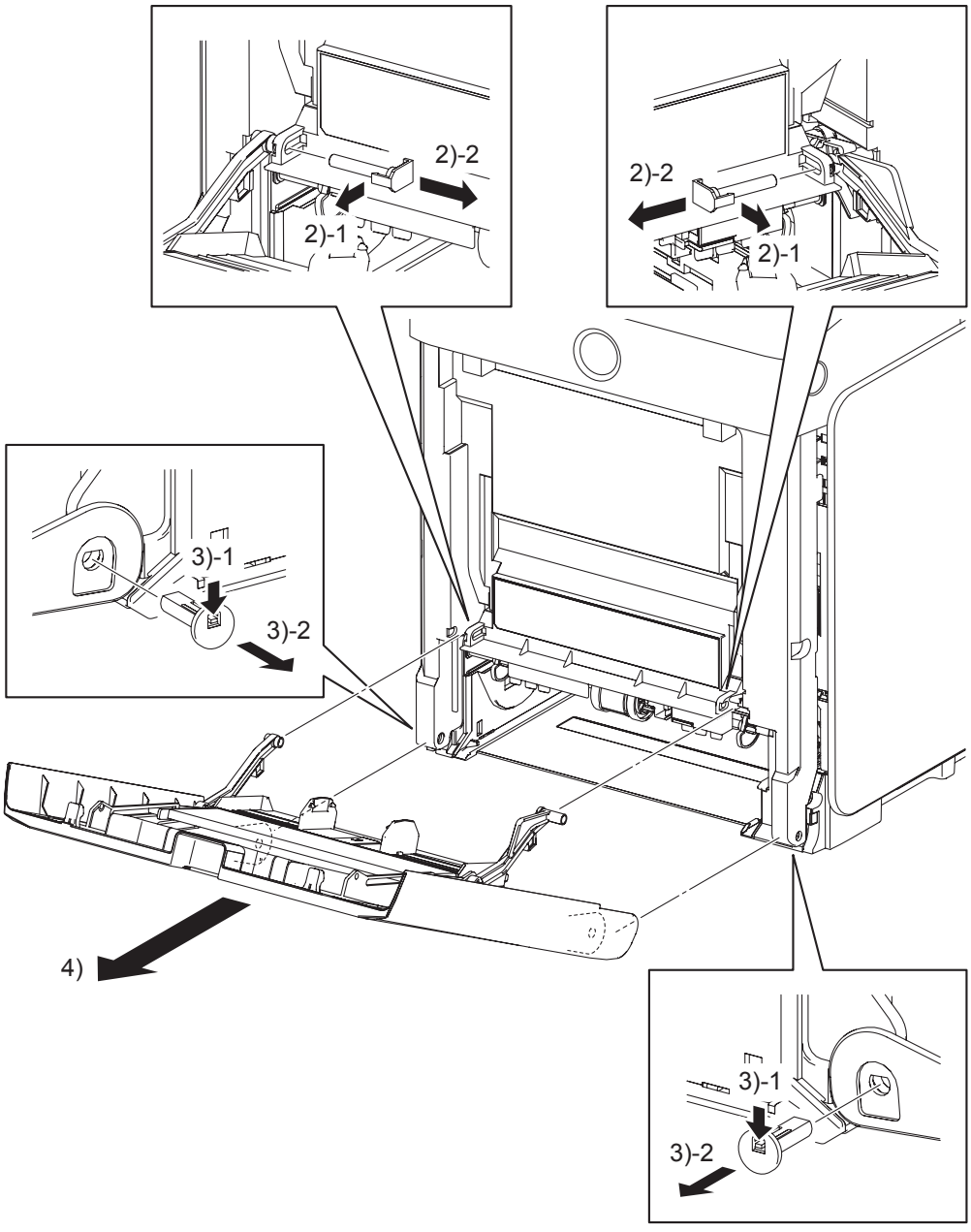
For the replacement procedure of this part, go to:
Replacement 43 COVER EXTENDER (PL1.1.9)

Removal 2 MPF COVER (PL1.2.99)

1) Open the MPF COVER (PL1.2.24).

NOTE

When performing the step described below, take care not to drop or damage the MPF COVER.



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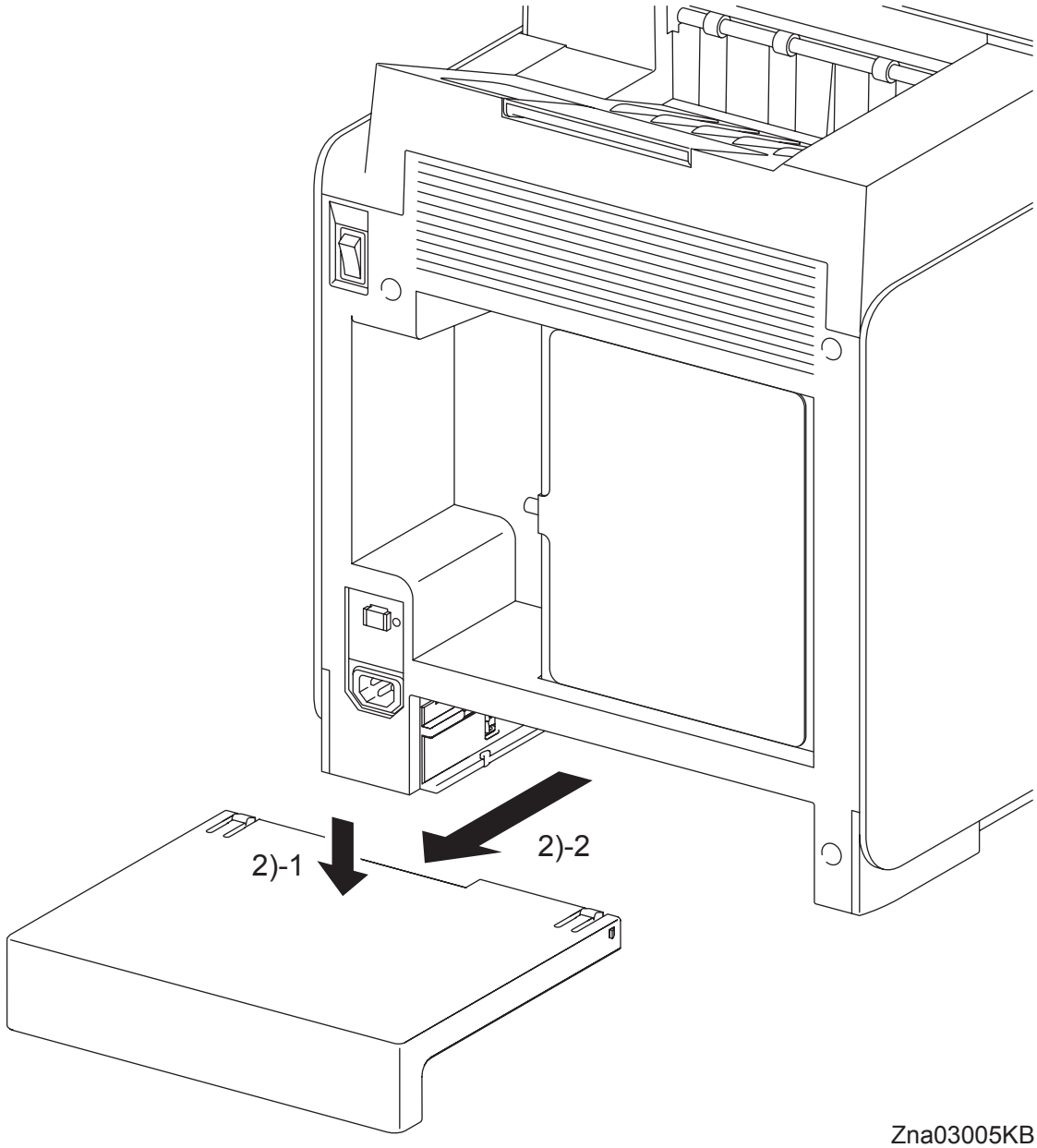
2) Release the hooks on the PIN PIVOT MSIs (PL1.2.17) that pivot the LINK ASSY MSIs (pivoted to the TRAY ASSY MSI BASE at the other end) to the FRONT COVER (PL.1.2.1) at the two locations on the left and right, and then pull out the PIN PIVOT MSIs to the inside.
3) Release the hooks on the SHAFT PIVOT MSIs (PL1.2.30) that pivot the MPF COVER to the printer at the two locations on the left and right, and then pull out the SHAFT PIVOT MSIs to the inside.
4) Remove the MPF COVER from the printer.

Removal 3 TRAY REAR COVER (PL1.1.5)

1) Pull the TRAY REAR COVER (PL1.1.5) backward until it stops.



2) Release the two hooks by depressing the center of the TRAY REAR COVER, and then remove the TRAY REAR COVER from the printer.

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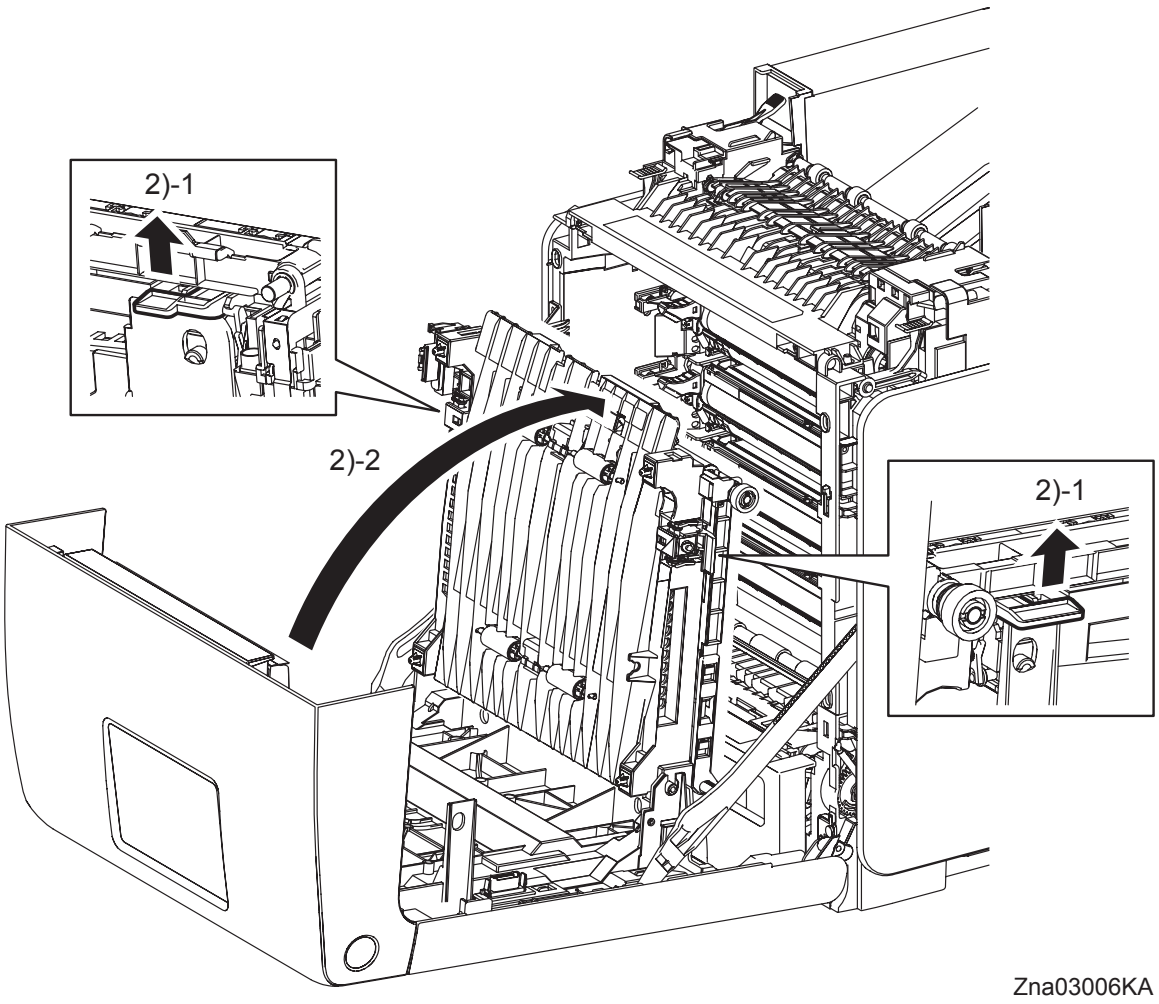
Removal 4 TRANSFER BELT (PL4.1.1)

1) Open the FRONT COVER (PL1.2.1).



2) Release the lock by pulling up the levers on the left and right sides of the TRANSFER BELT (PL4.1.1). Raise the TRANSFER BELT upright.

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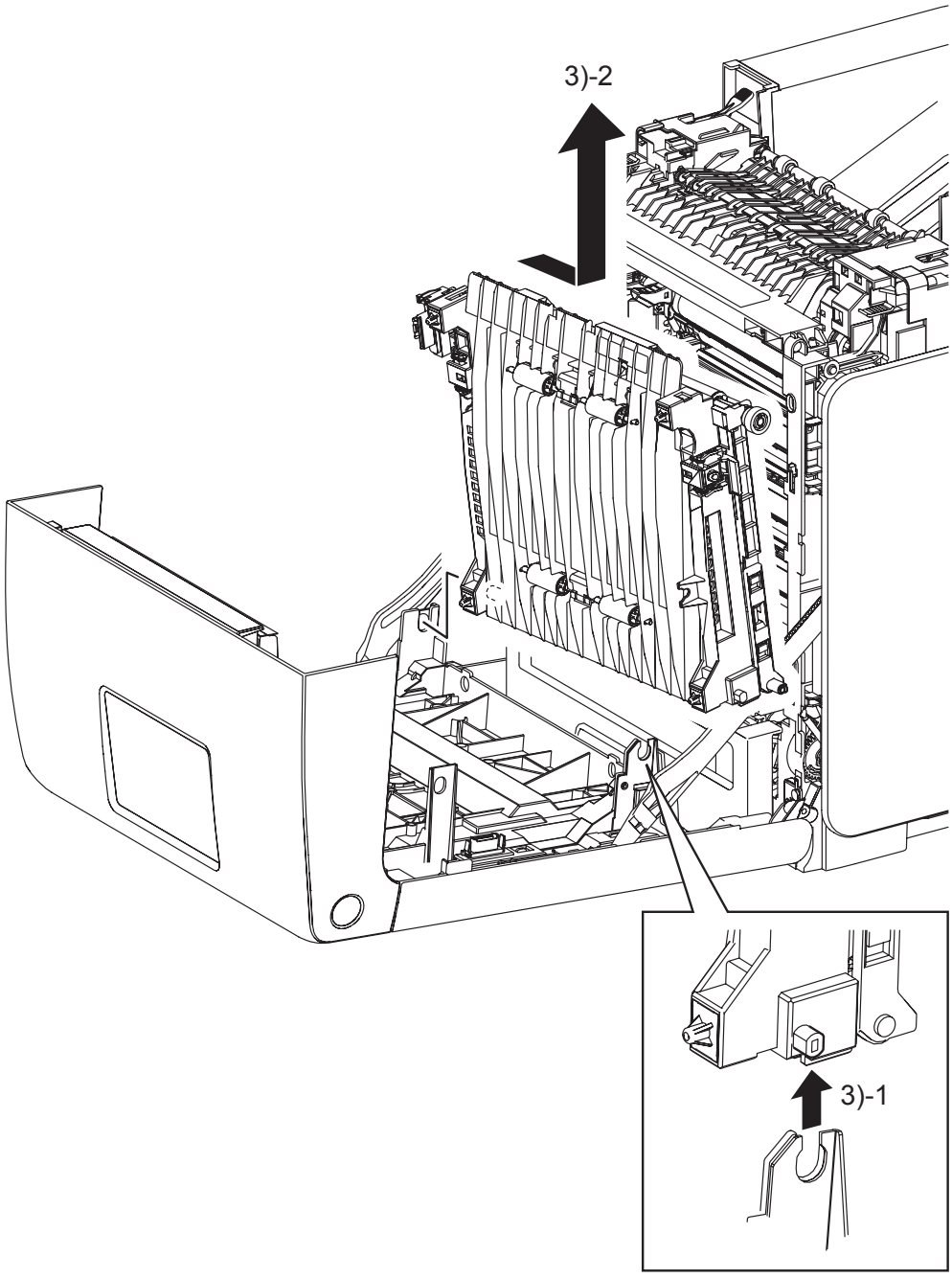
Removal 4 TRANSFER BELT (PL4.1.1)



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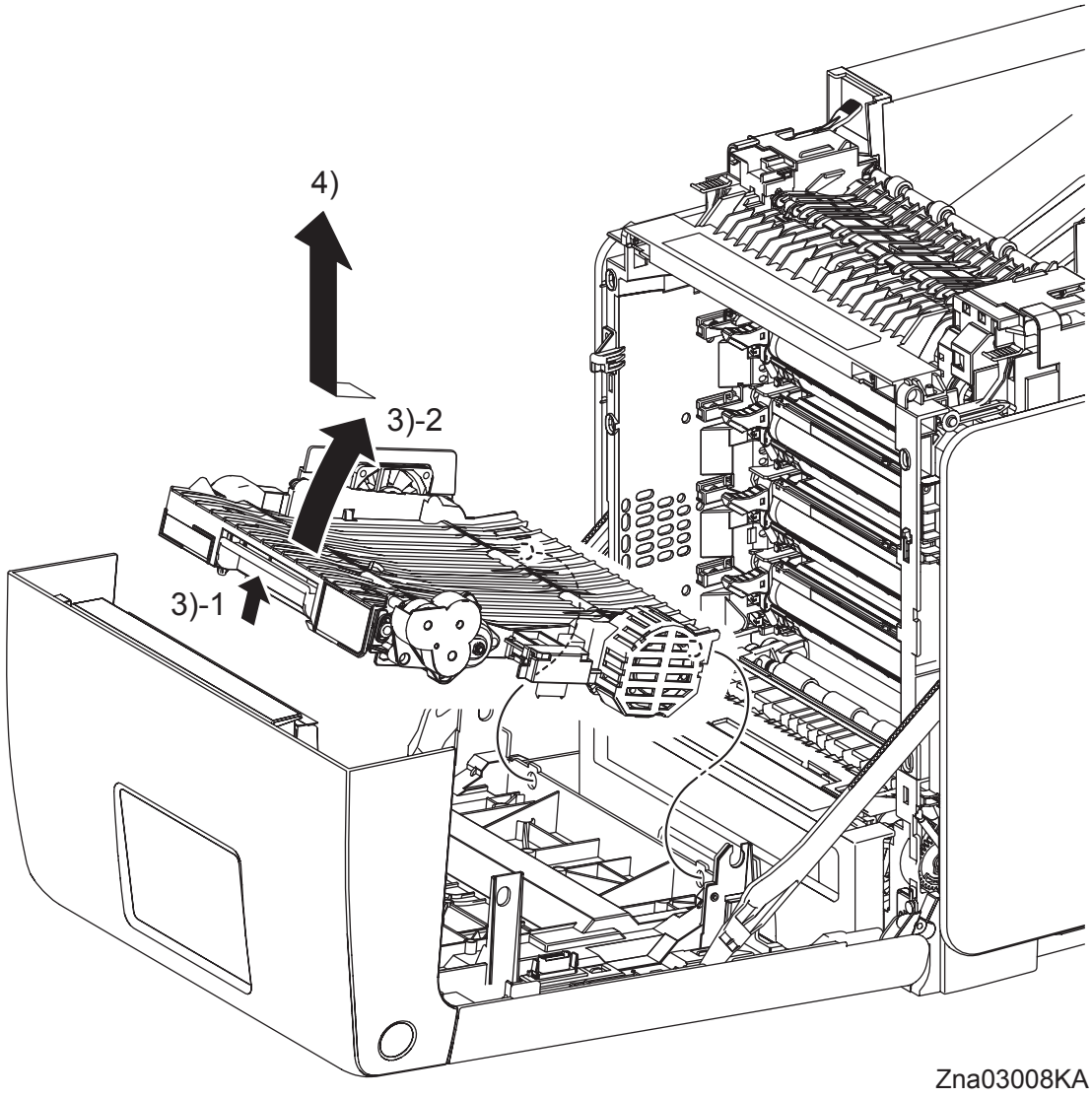
3) Remove the TRANSFER BELT by releasing the left side lug on the TRANSFER BELT from the U-shaped notch of the FRONT COVER and pulling out the right side lug on the TRANSFER BELT from the hole on the FRONT COVER.

Go to the next removal step:
Removal 5 DUPLEX MODULE (PL11.1.1)

Removal 5 DUPLEX MODULE (PL11.1.1)

Steps 1 and 2 are for reference. Before removing this component, check that Steps 1 and 2 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the TRANSFER BELT. (Removal 4)



3) Release the lock by pulling the lever of the DUPLEX MODULE (PL11.1.1), and then raise the DUPLEX MODULE.
4) Release the two bosses on the backside of the DUPLEX MODULE from the holes on the FRONT COVER, and then remove the DUPLEX MODULE.

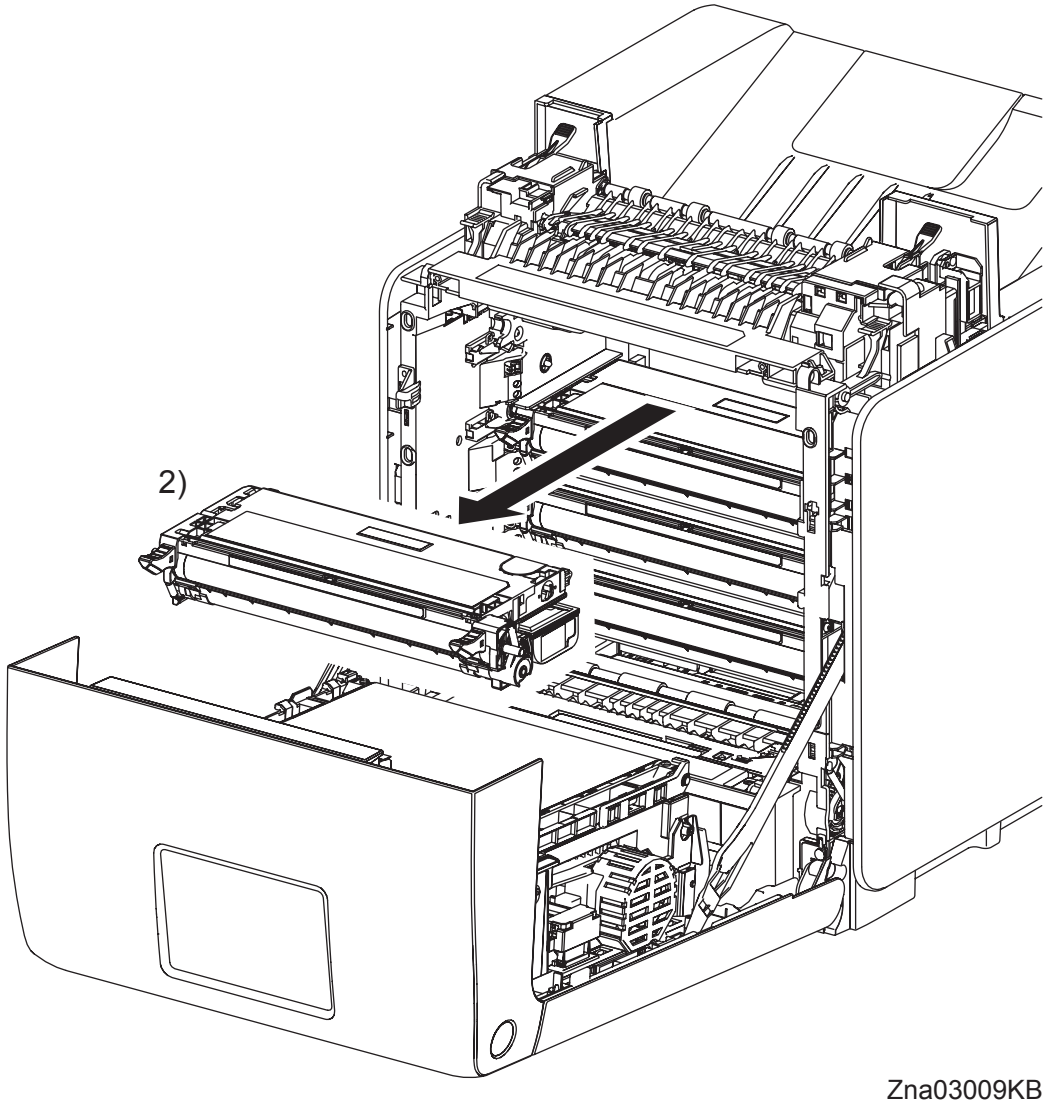
Removal 6 TONER CARTRIDGE (K), (C), (M), (Y) (PL5.1.18-21)

NOTE

Described below is the removal procedure common among the TONER CARTRIDGEs (C), (M), (Y), and (K).

Step 1 is for reference. Before removing this component, check that Step 1 has been performed.

1) Open the FRONT COVER (PL1.2.1).



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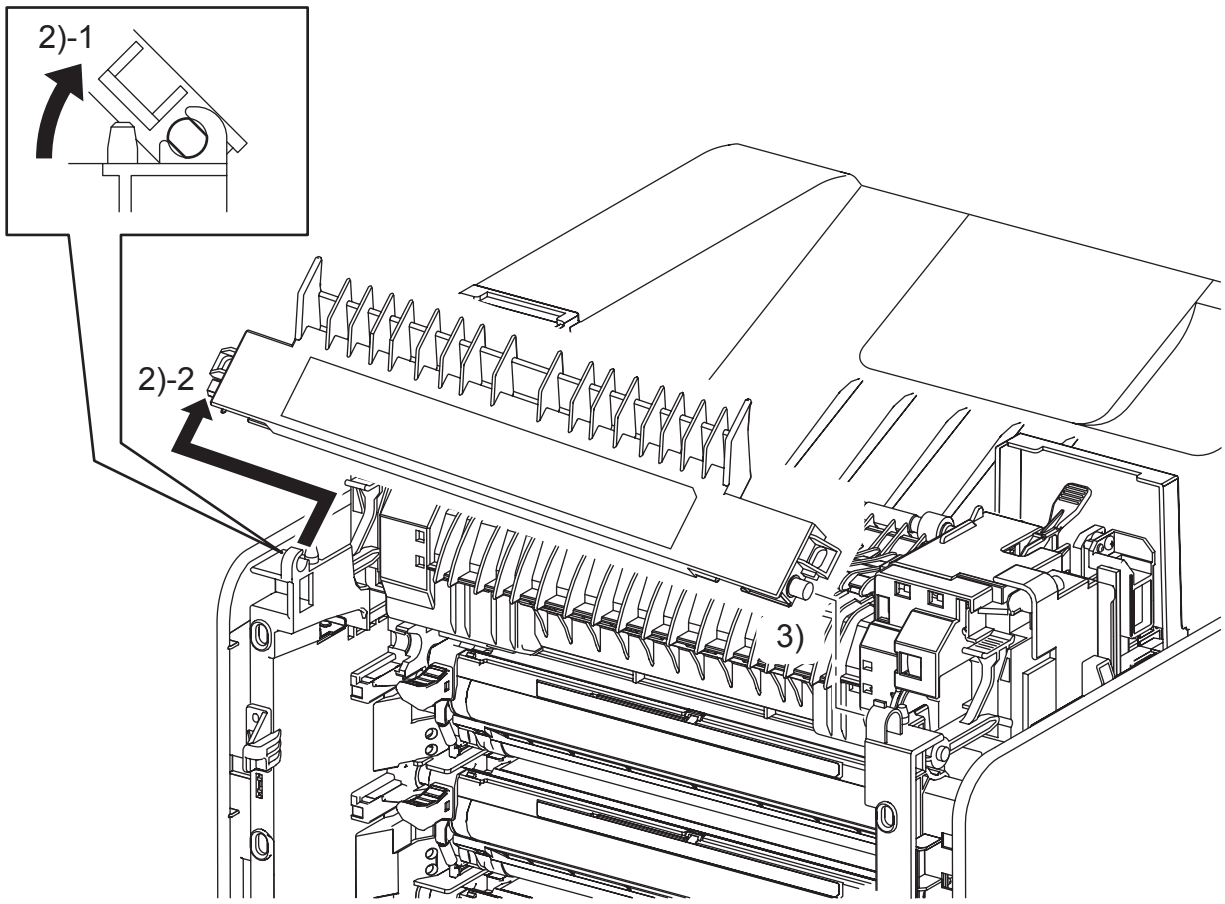
2) Remove the TONER CARTRIDGE toward you by pulling it by the left and right handles.

Removal 7 DUPLEX GATE (PL6.1.13)

NOTE

The FUSER part is very hot. Take added care not to get burned when performing the service operation.

1) Open the FRONT COVER (PL1.2.1).



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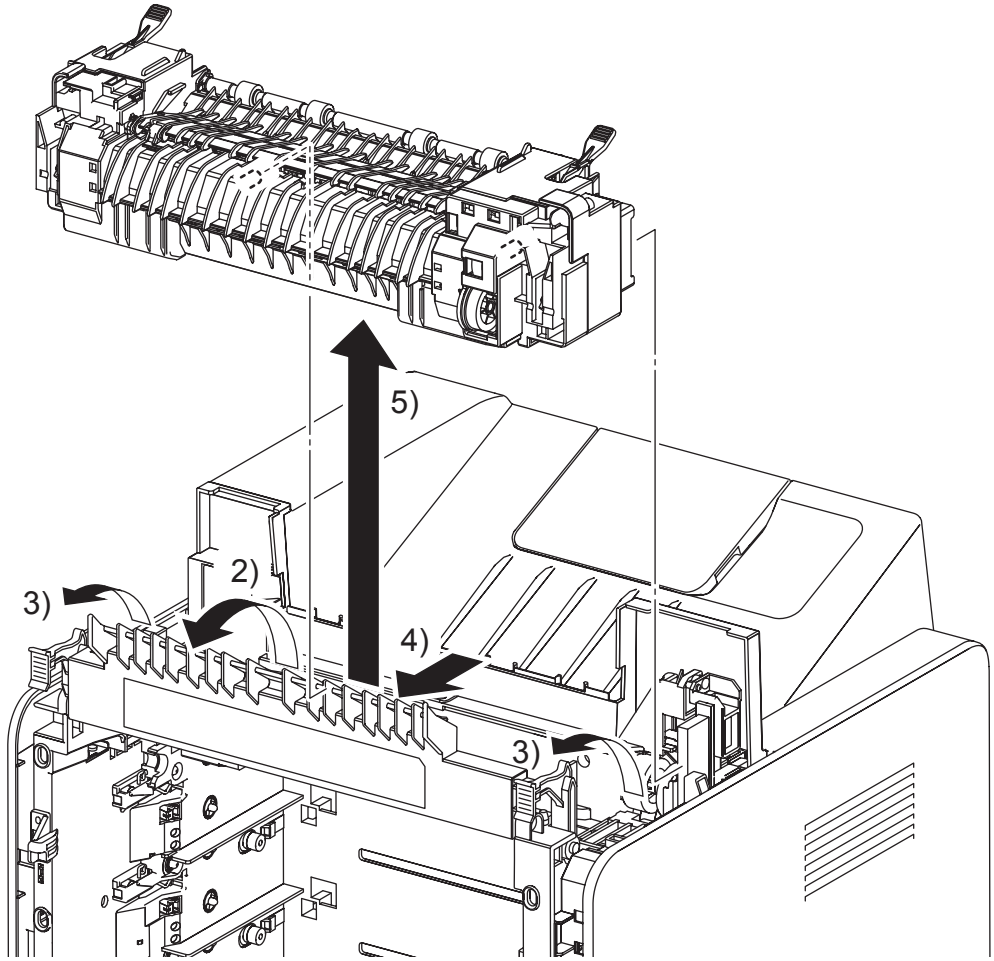
2) Open the DUPLEX GATE (PL6.1.13) to about 45 degrees so that the flat faces of the left side pivot of the DUPLEX GATE comes parallel with the U-shaped notch. Pull out the left side pivot of the DUPLEX GATE from the U-shaped notch diagonally backward.
3) Pull out the right side pivot of the DUPLEX GATE from the hole on the printer.

Removal 8 FUSER (PL6.1.10)

NOTE

The FUSER part is very hot. Take added care not to get burned when performing the service operation.

1) Open the FRONT COVER (PL1.2.1).



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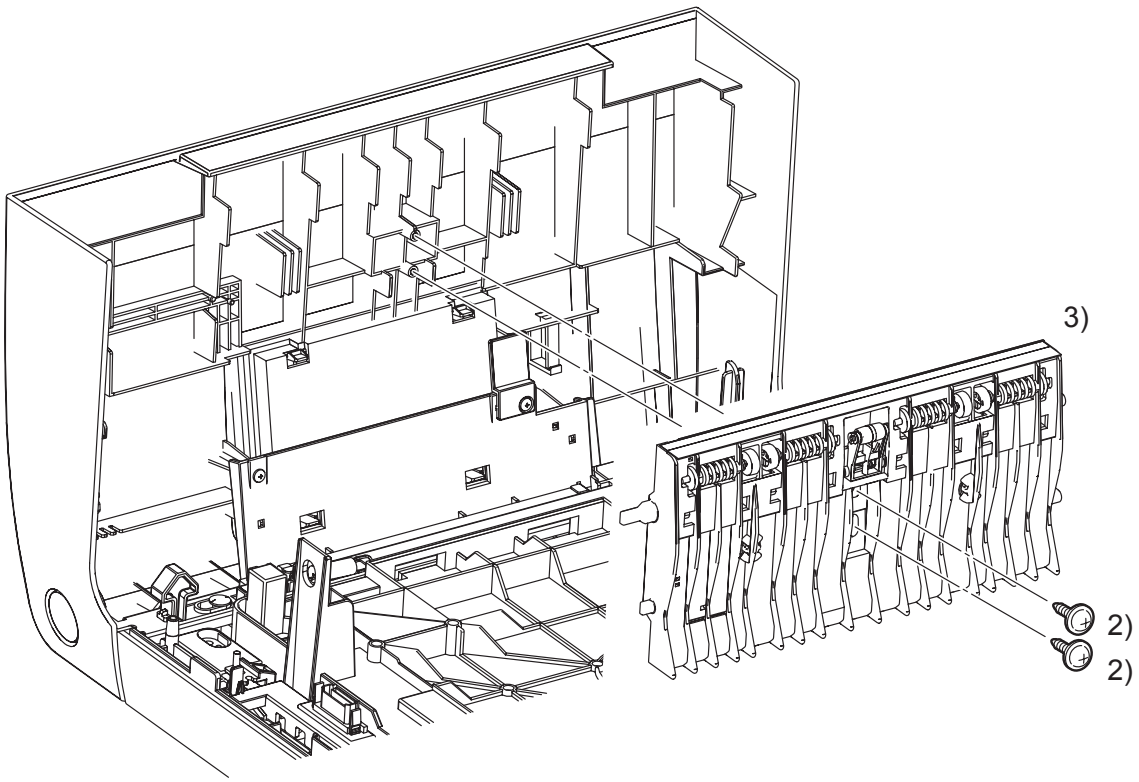
2) Open the DUPLEX GATE (PL6.1.13).
3) Lift the LEVER FUSER D (PL6.1.18) and LEVER FUSER AD (PL6.1.19) up to release the lock of FUSER (PL6.1.10).
4) Shift the FUSER toward you to disengage the FUSER connector (P/J171).
5) Remove the FUSER from the printer.

Removal 9 CHUTE ASSY EXIT OUT (PL6.1.1)

1) Open the FRONT COVER (PL1.2.1).



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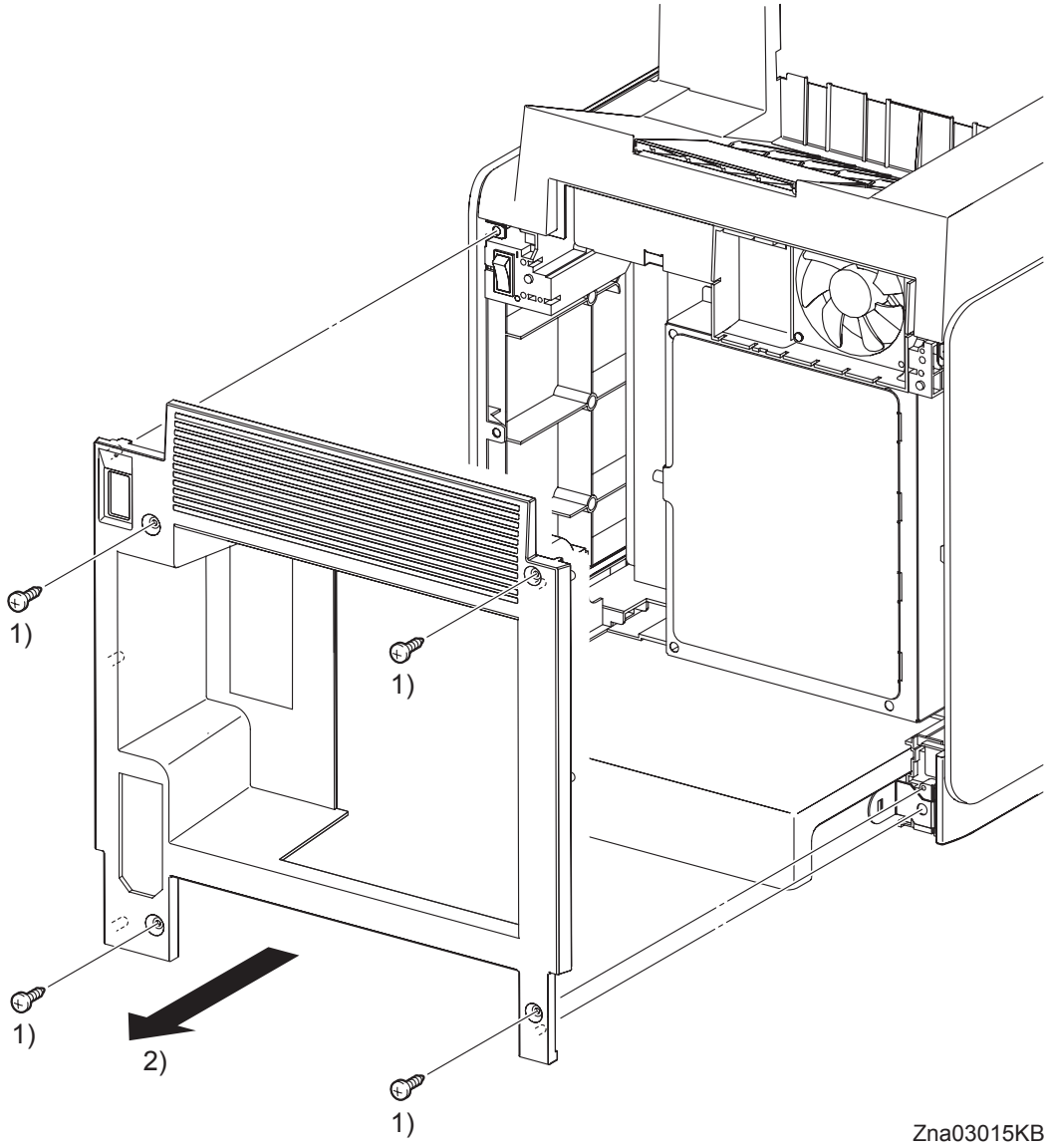
2) Remove two screws (silver, with flange, tap, 10mm) that fix the CHUTE ASSY EXIT OUT (PL6.1.1) to the FRONT COVER.
3) Remove the CHUTE ASSY EXIT OUT from the FRONT COVER.

Removal 10 REAR COVER (PL1.1.4)



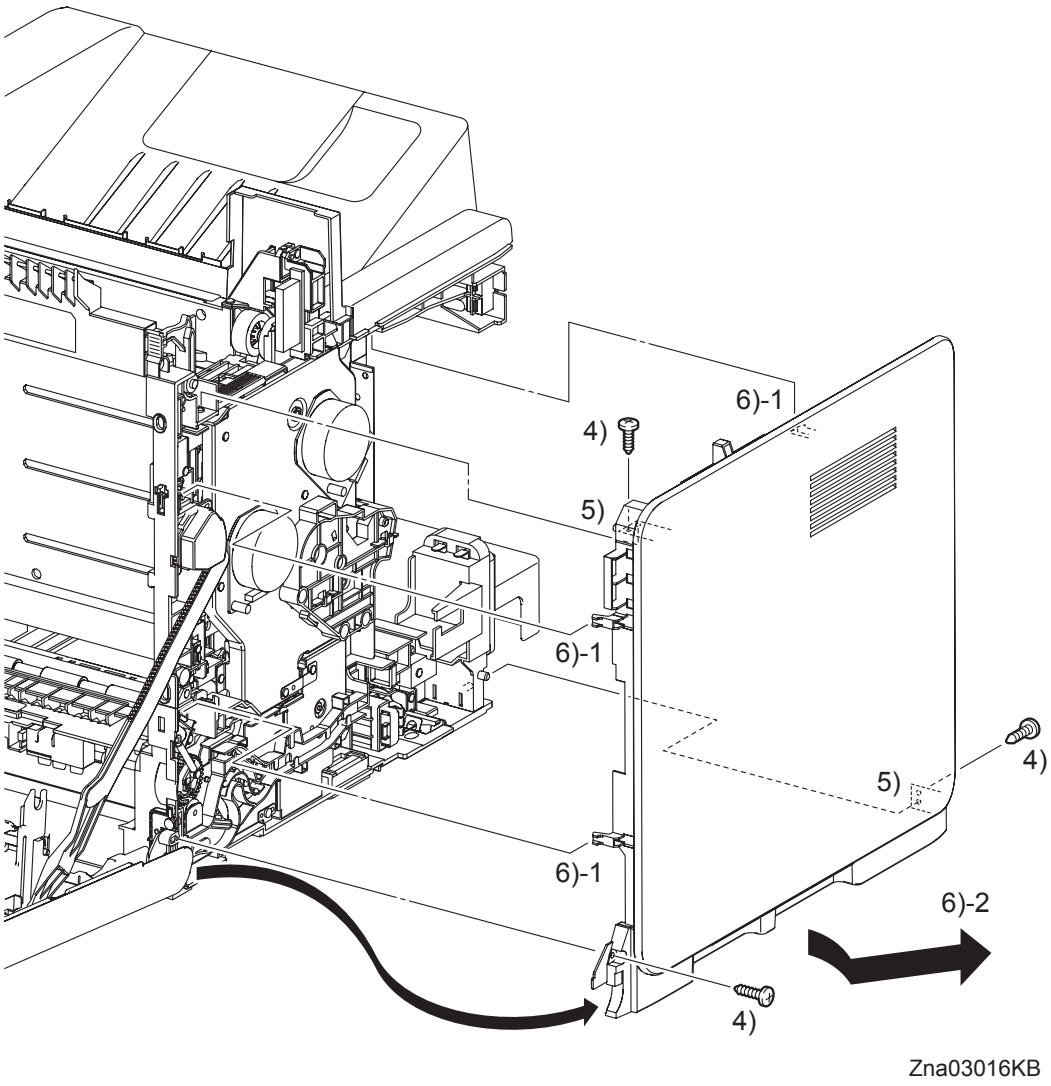
1) Remove four screws (silver, tap, 10mm) that fix the REAR COVER (PL1.1.4) to the printer
2) Remove the REAR COVER from the printer.

Go to the next removal step:
Removal 11 RIGHT COVER (PL1.1.6) or Removal 20 LEFT COVER (PL1.1.7)

Removal 11 RIGHT COVER (PL1.1.6)

Steps 1 through 3 are for reference. Before removing this component, check that Steps 1 through 3 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)



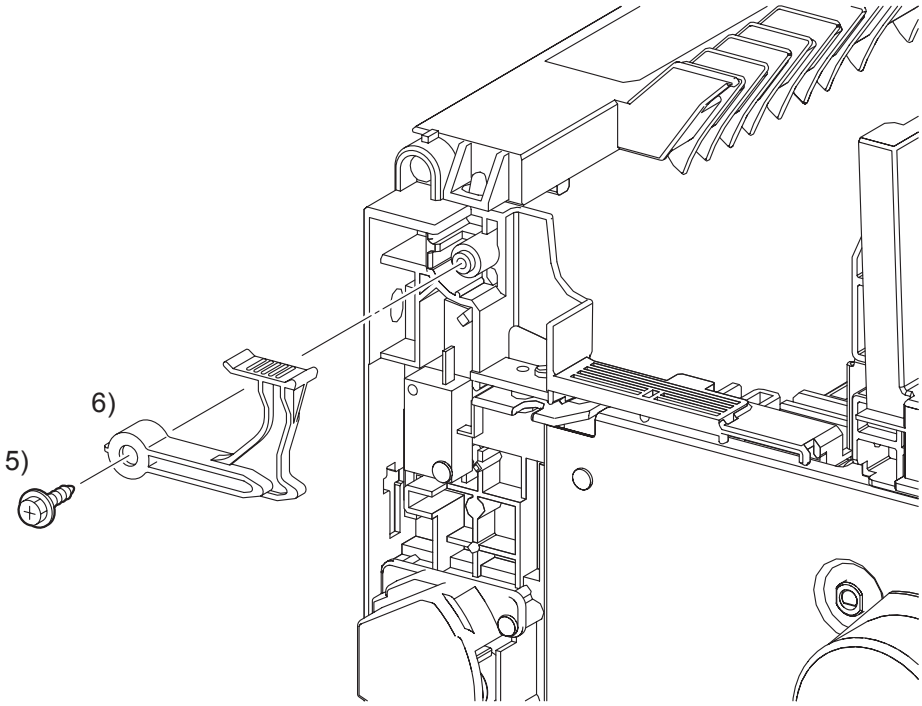
4) Remove three screws (silver, tap, 10mm) that fix the RIGHT COVER (PL1.1.6) to the printer.
5) Release the two holes on the RIGHT COVER from the bosses on the printer.
6) Release the one backside hook and two frontside hooks on the RIGHT COVER, and then remove the RIGHT COVER diagonally backward.

Go to the next removal step:
Removal 12 LEVER FUSER D (PL6.1.18), Removal 13 OPERATOR PANEL (PL1.2.97), Removal 14 FRONT COVER (PL1.2.98), Removal 15 MPF FEED SOLENOID (PL3.1.98), Removal 16 ROLL ASSY MSI (PL3.1.8), Removal 17 FEED DRIVE ASSEMBLY (PL8.1.7), Removal 18 SIZE SWITCH ASSEMBLY (PL7.1.18), Removal 19 BREAKER GFI INLET (PL9.1.43)

Removal 12 LEVER FUSER D (PL6.1.18)

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)



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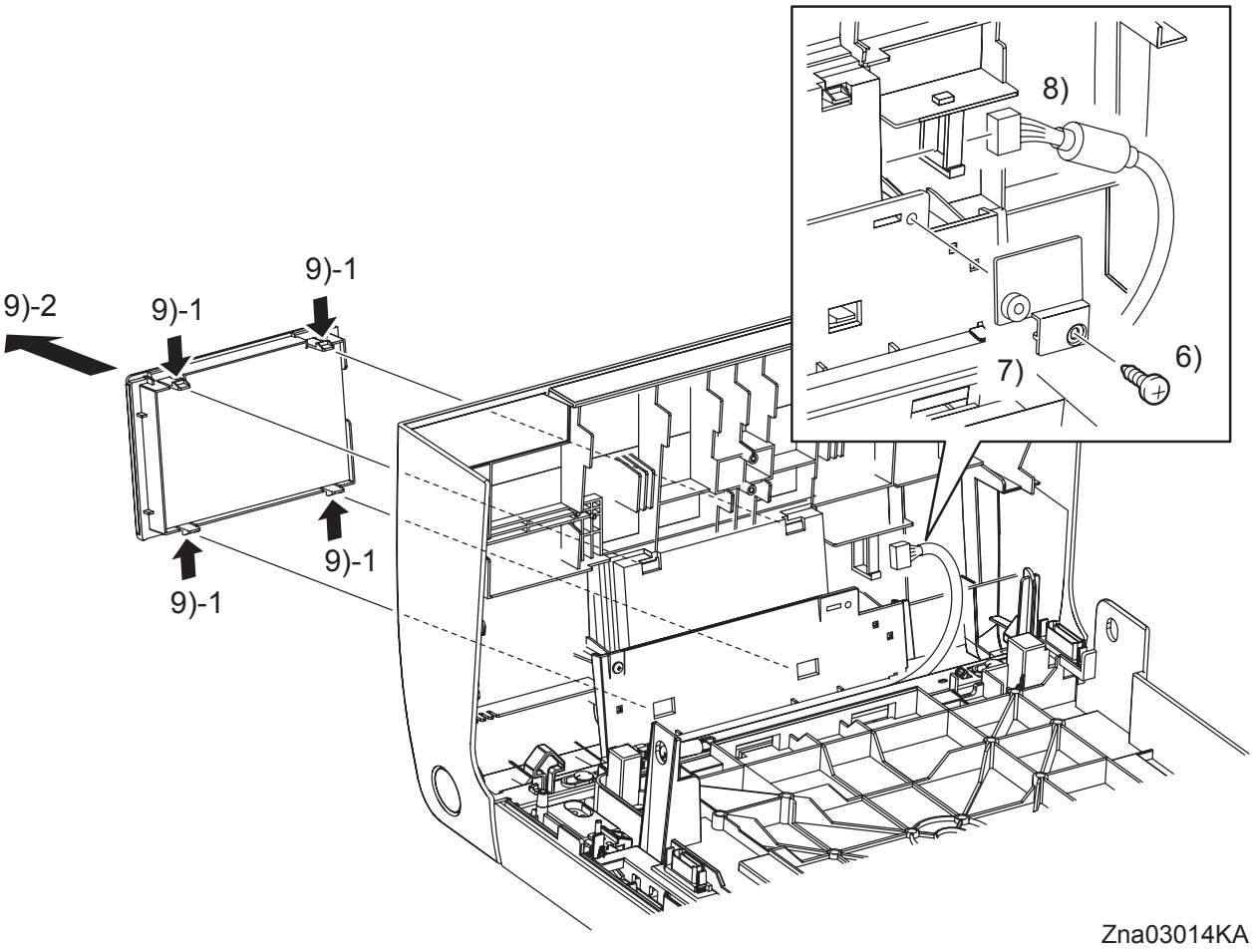
5) Remove the one screw (silver, with flange, tap, 10mm) that fixes the LEVER FUSER D (PL6.1.18) to the printer.
6) Remove the LEVER FUSER D from the printer.

Removal 13 OPERATOR PANEL (PL1.2.97)

Steps 1 through 5 are for reference. Before removing this component, check that Steps 1 and 2 have been performed.

When removing the OPERATOR PANEL only, perform Steps 1, 5, 6, 7, 8, and 9.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the CHUTE ASSY EXIT OUT. (Removal 9)



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6) Remove the one screw (silver, tap, 10mm) that fixes the BRACKET HARNESS (PL1.2.34) to the FRONT COVER.
7) Remove the BRACKET HARNESS from the FRONT COVER.
8) Release the clamp that fixes the core of the HARNESS ASSY OPEPANE (PL1.2.15), and then disengage the connector (P/J220) of the OPERATOR PANEL (PL1.2.16).

NOTE

When performing the step described below, take care not to drop or damage the OPERATOR PANEL.

9) Remove the OPERATOR PANEL by releasing the four hooks that fix the OPERATOR PANEL to the printer.

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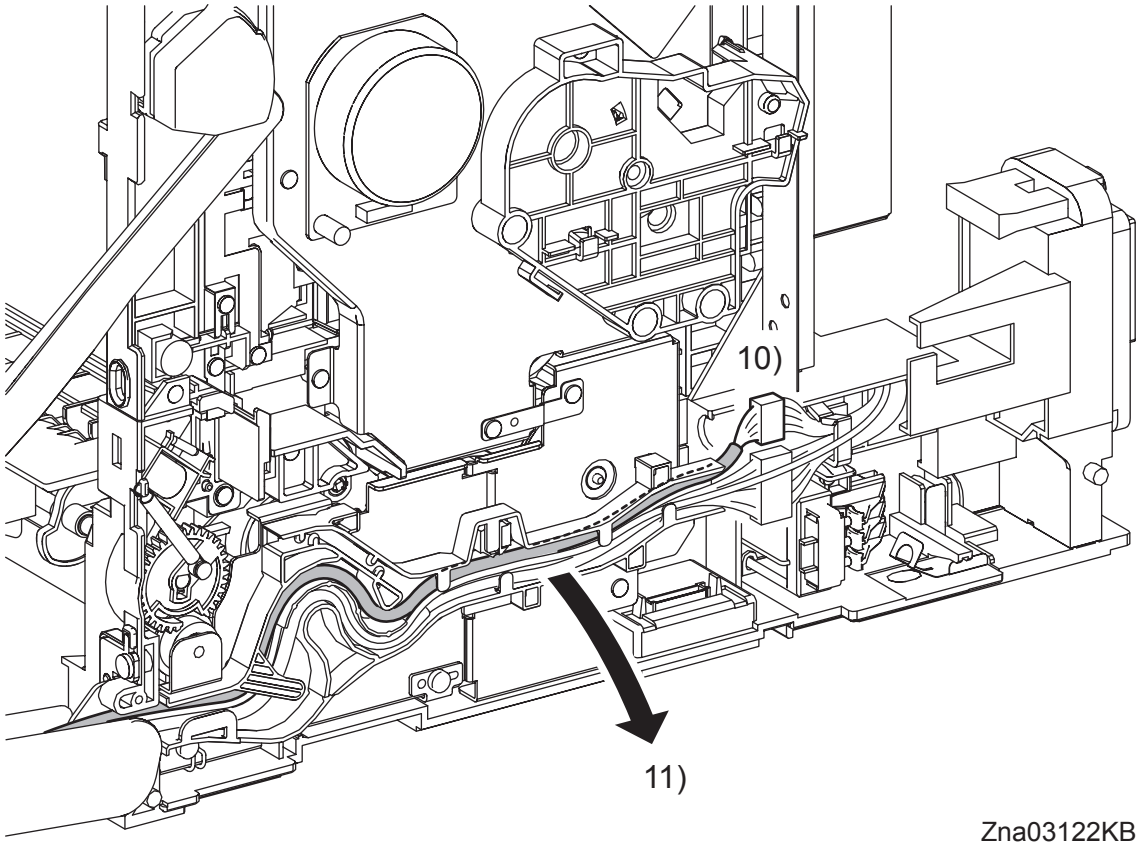
Removal 13 OPERATOR PANEL (PL1.2.97)



10) Disengage the connector (P/J2900) of the HARNESS ASSY OPEPANE.
11) Release the HARNESS ASSY OPEPANE from the DUCT ASSY DRV PH (PL8.1.8).

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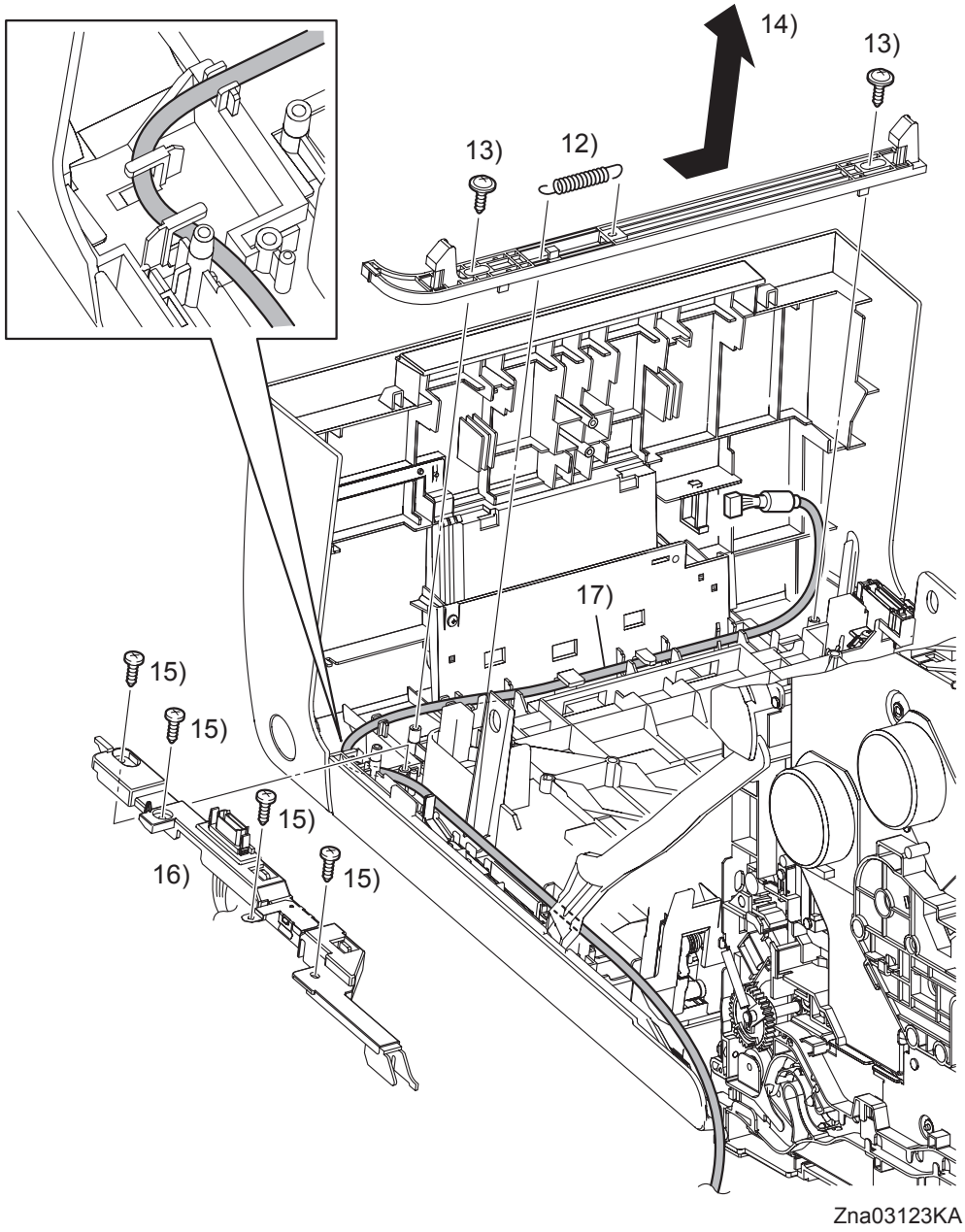
Removal 13 OPERATOR PANEL (PL1.2.97)



12) Remove the SPRING LATCH (PL1.2.3) from the hooks on the LATCH FRONT (PL1.2.4) and the FRONT COVER.
13) Remove two screws (silver, with flange, tap, 10mm) that fix the LATCH FRONT to the FRONT COVER.
14) Slide the LATCH FRONT to the left, and then remove the LATCH FRONT from the FRONT COVER.
15) Remove the four screws (silver, tap, 10mm) that fix the COVER HARNESS (PL1.2.5) to the FRONT COVER.

NOTE

Take care not to move the COVER HARNESS away from the FRONT COVER too far because the COVER HARNESS is secured to the HARNESS ASSY FRONT COVER.

16) Remove the COVER HARNESS from the FRONT COVER.
17) Remove the HARNESS ASSY OPEPANE from the FRONT COVER.

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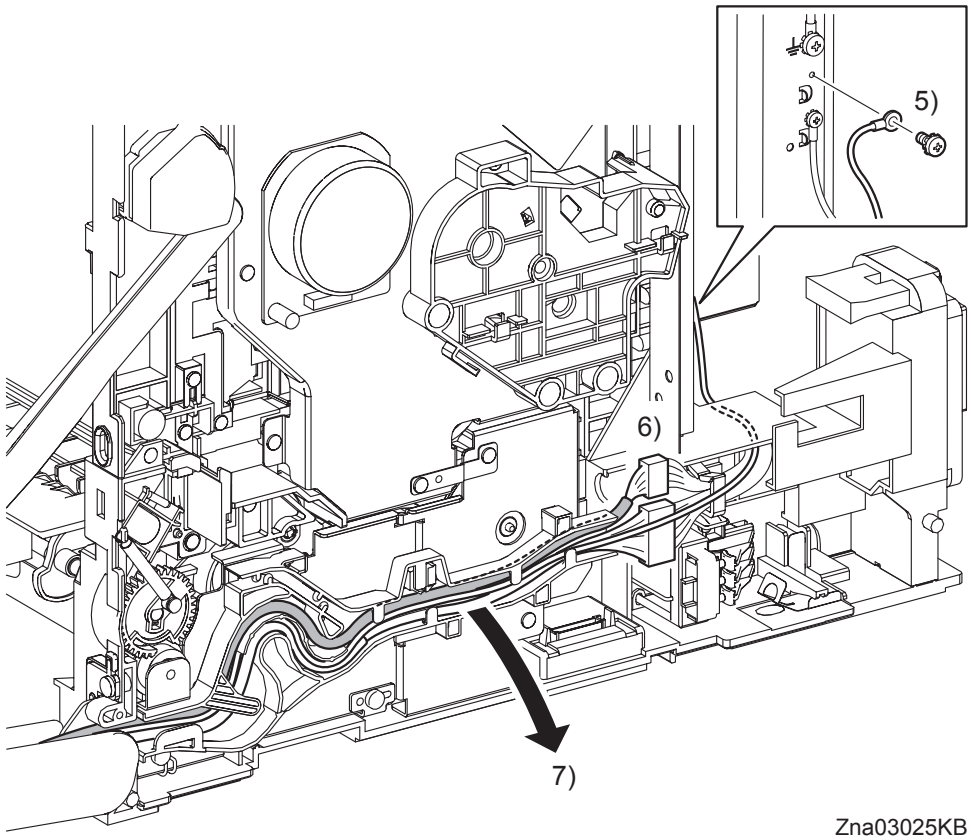
Removal 14 FRONT COVER (PL1.2.98)

NOTE

The procedures described below must be performed with the MPF COVER (PL1.2.24) attached to the FRONT COVER (PL1.2.1).

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)



5) Remove the one screw (silver, with washer, 6mm) that fixes to the printer the ground wire of the HARNESS ASSY FRONT COVER (PL1.2.11).

NOTE

When performing the step below, leave the junction connector on the printer side cable.

6) Disengage the connector (P/J2900) of the HARNESS ASSY OPEPANE (PL1.2.15) and the connector (P/J272) of the HARNESS ASSY FRONT COVER.
7) Release the HARNESS ASSY OPEPANE and the HARNESS ASSY FRONT COVER from the DUCT ASSY DRV PH (PL8.1.8).

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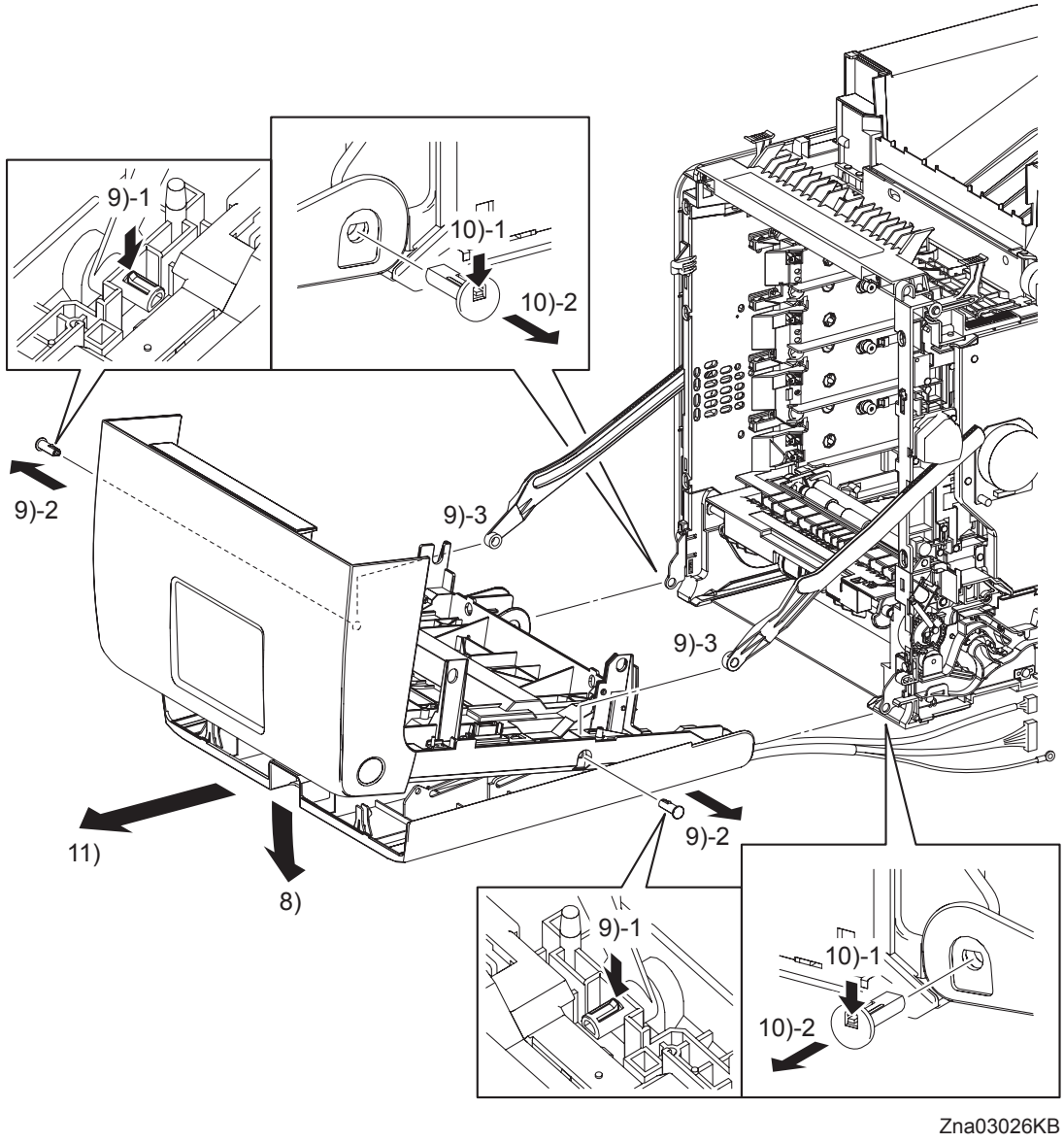
Removal 14 FRONT COVER (PL1.2.98)



8) Open the MPF COVER (PL1.2.24).

NOTE

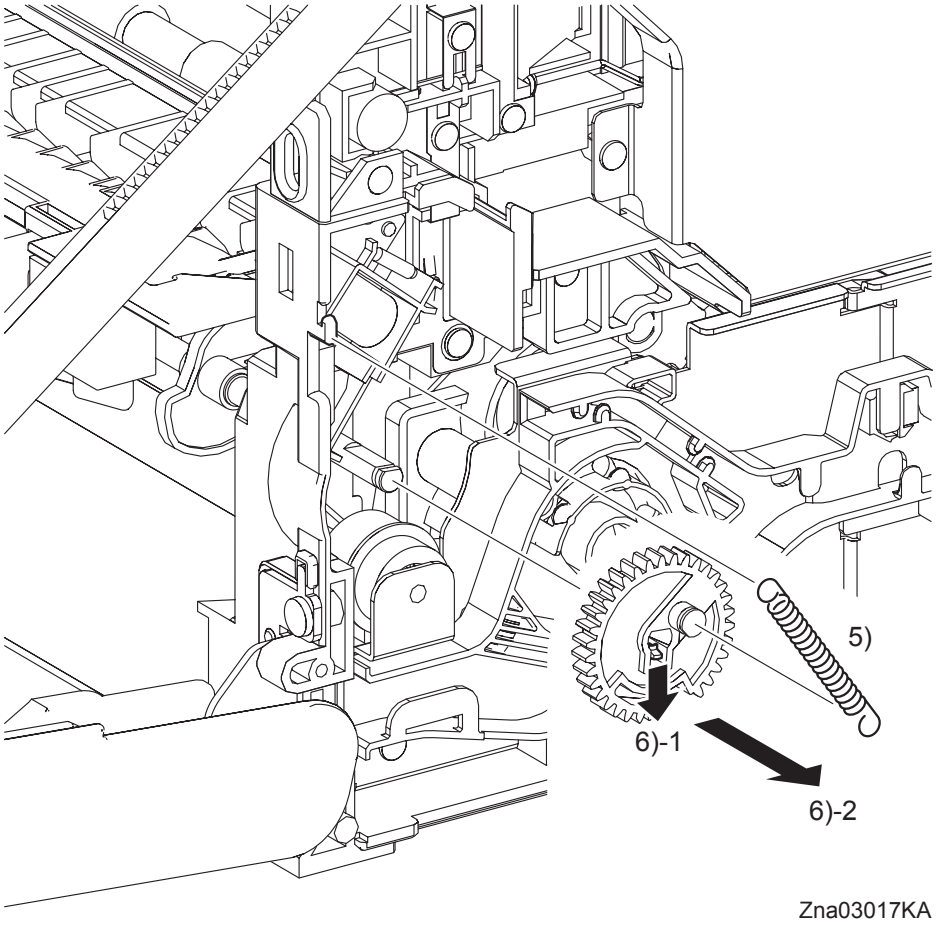
When performing the step described below, take care not to drop and break the FRONT COVER.

9) Release the hook of SHAFT PIVOT (PL1.2.8) on the left and right sides of the FRONT COVER, and then pull out the SHAFT PIVOT to the outside while holding the FRONT COVER. Remove the FRONT COVER from the LINK L (PL7.1.3) and LINK R (PL7.1.13) on the printer.
10) Release the hook of the SHAFT PIVOT MSI (PL1.2.30) that fixes the left and right sides of the FRONT COVER and the MPF COVER to the printer, and then pull out the SHAFT PIVOT MSI to the inside.
11) Remove the FRONT COVER together with the MPF COVER.

Removal 15 MPF FEED SOLENOID (PL3.1.98)

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)



5) Remove the SPRING FEED MSI (PL3.1.4) from the printer.
6) Remove the GEAR MSI (PL3.1.5) from the SHAFT MSI (PL3.1.12) by releasing the hook on the GEAR MSI.

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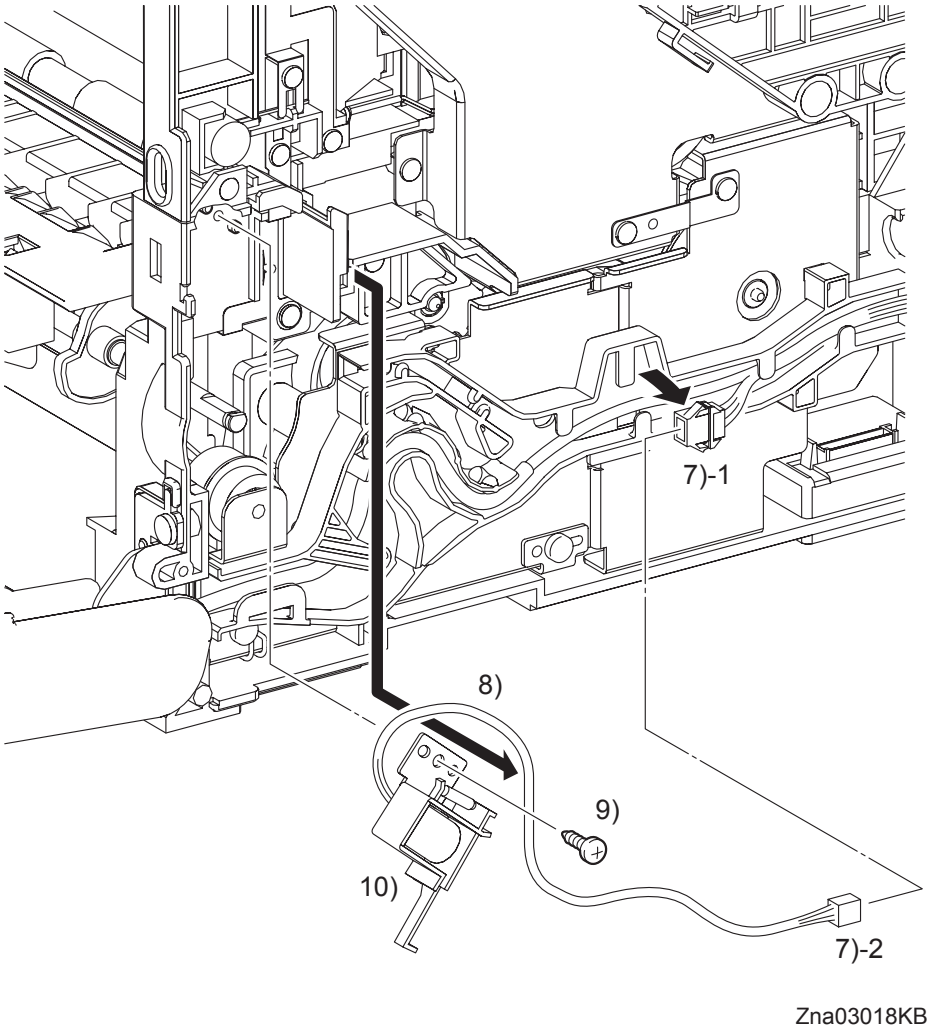
Removal 15 MPF FEED SOLENOID (PL3.1.98)



NOTE

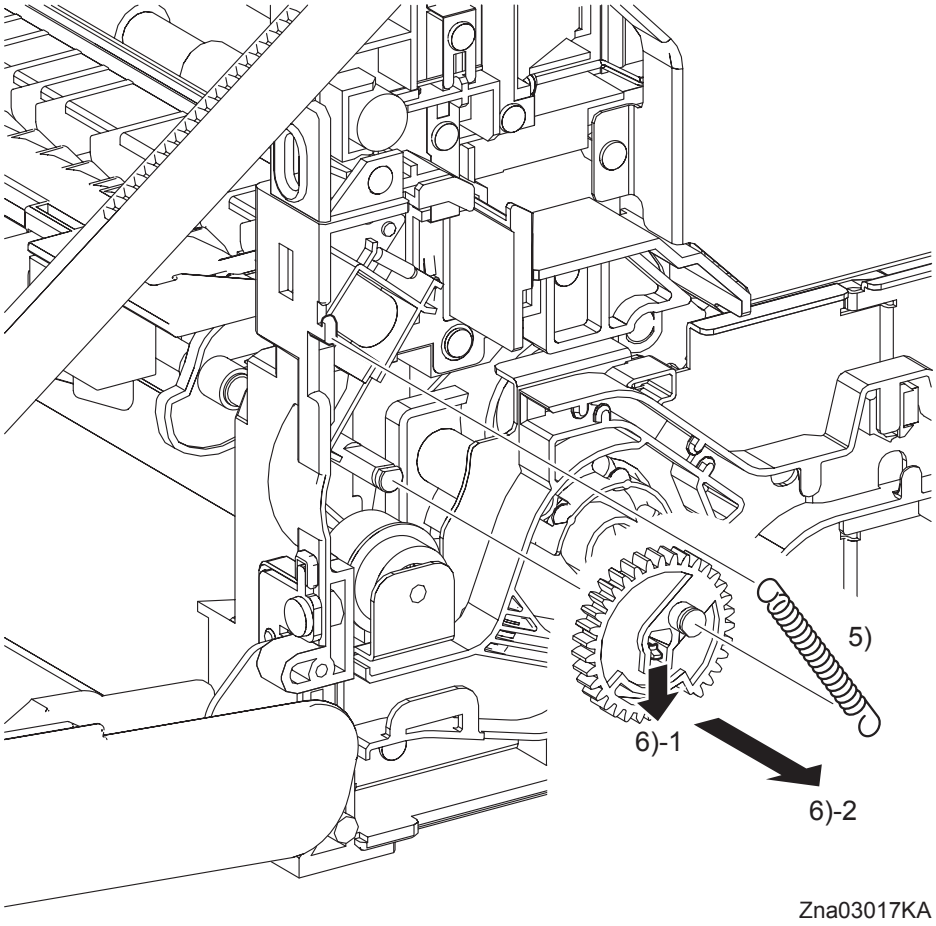
When performing the step below, leave the junction connector on the printer side cable.

7) Disengage the connector (P/J234) of the MPF FEED SOLENOID (PL3.1.3).
8) Remove the harness of the MPF FEED SOLENOID from the DUCT ASSY DRV PH (PL8.1.8).
9) Remove the one screw (silver, tap, 8mm) that fixes the MPF FEED SOLENOID to the printer.
10) Remove the MPF FEED SOLENOID from the printer.

Removal 16 ROLL ASSY MSI (PL3.1.8)

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)



5) Remove the SPRING FEED MSI (PL3.1.4) from the printer.
6) Remove the GEAR MSI (PL3.1.5) from the SHAFT MSI (PL3.1.12) by releasing the hook on the GEAR MSI.

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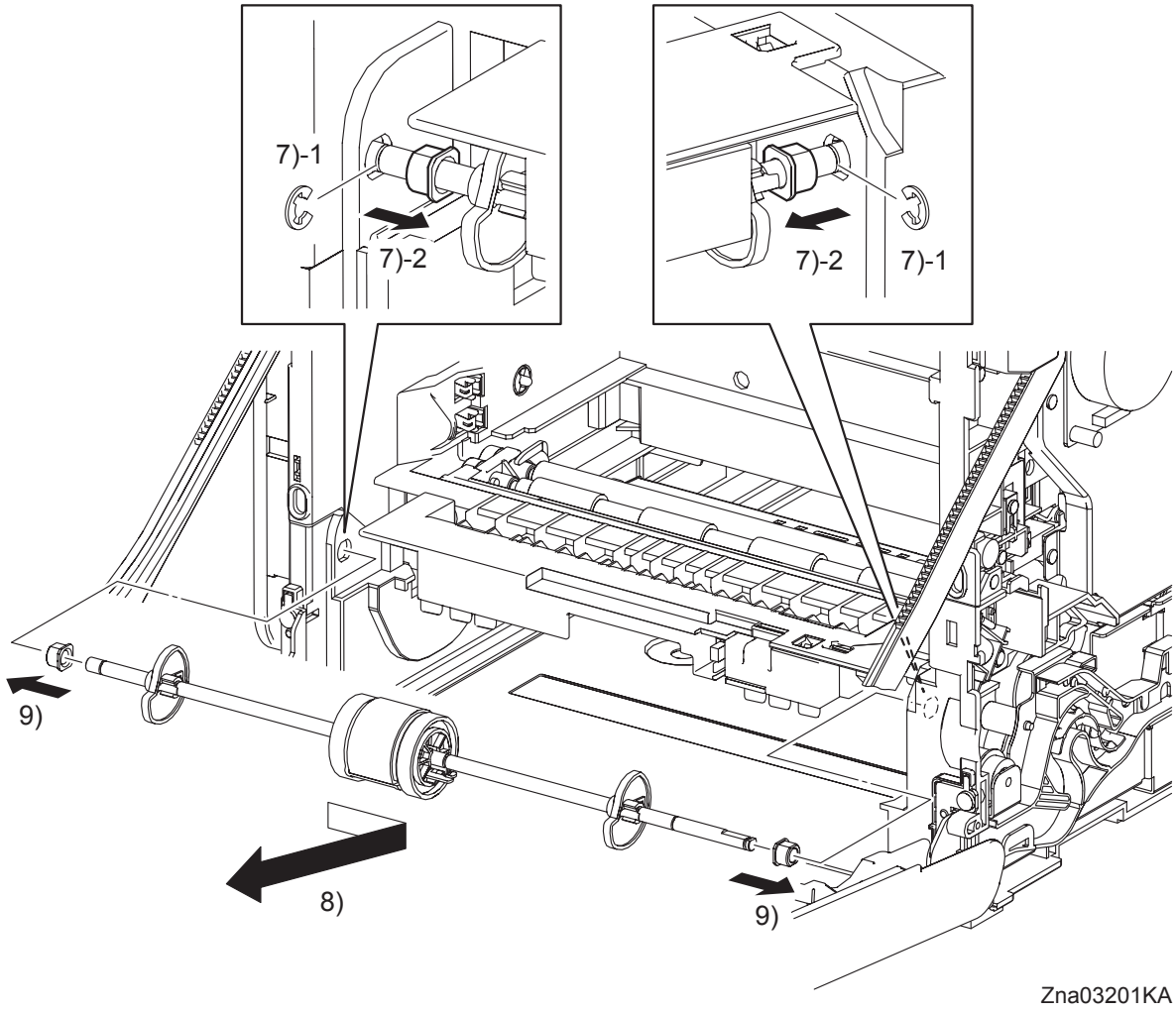
Removal 16 ROLL ASSY MSI (PL3.1.8)



7) Remove the e-rings that fix the BEARING on the left and right sides of the ROLL ASSY MSI (PL3.1.8), and then remove the BEARING to the inside.

NOTE

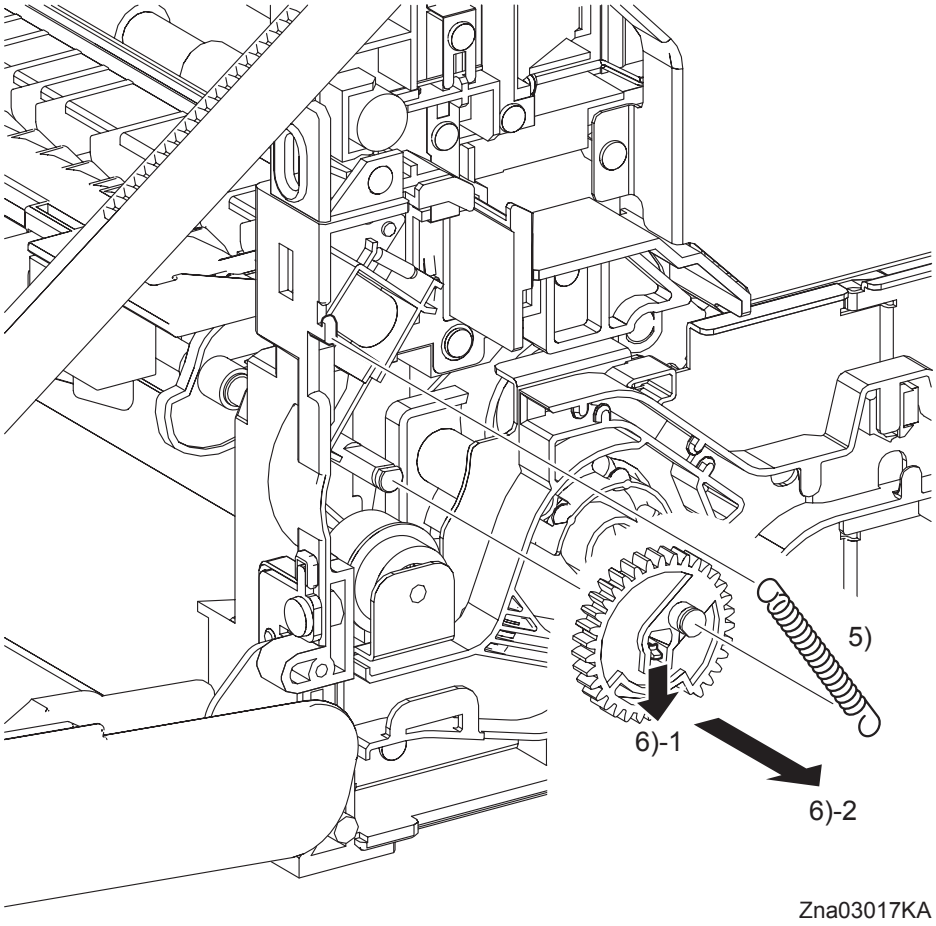
When performing the step described below, take care not to drop and lose the BEARING EARTH and the BEARING.

8) Remove the ROLL ASSY MSI by sliding it to the right and pulling out its left side shaft from the left side hole on the printer and then pulling it out to the lower left.
9) Remove the BEARING EARTH (PL3.1.6) and the BEARING (PL3.1.13) from the ROLL ASSY MSI.

Removal 17 FEED DRIVE ASSEMBLY (PL8.1.7)

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)



5) Remove the SPRING FEED MSI (PL3.1.4) from the printer.
6) Remove the GEAR MSI (PL3.1.5) from the SHAFT MSI (PL3.1.12) by releasing the hook on the GEAR MSI.
7) Remove all the harnesses from the DUCT ASSY DRV PH (PL8.1.8).

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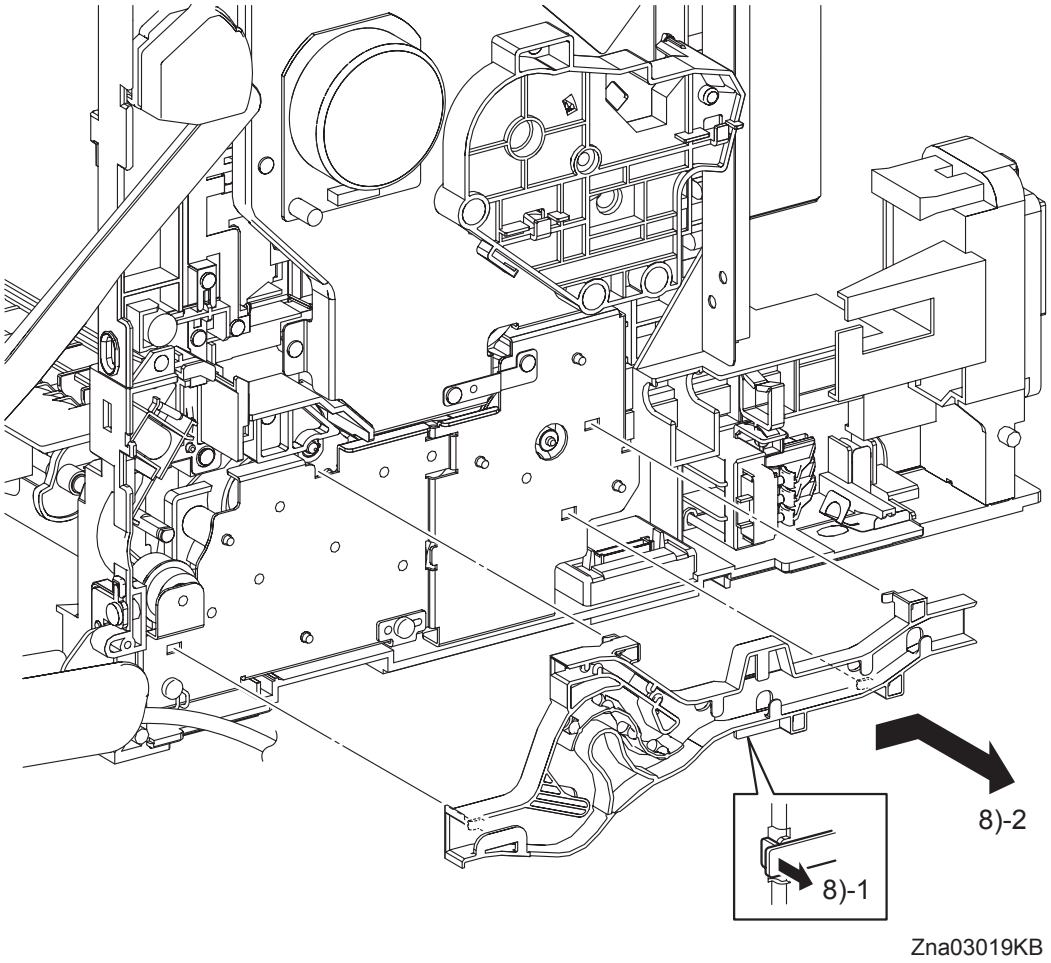
Removal 17 FEED DRIVE ASSEMBLY (PL8.1.7)



8) Remove the DUCT ASSY DRV PH from the FEED DRIVE ASSEMBLY (PL8.1.7) by releasing the hook on the DUCT ASSY DRV PH and moving it slightly backward.

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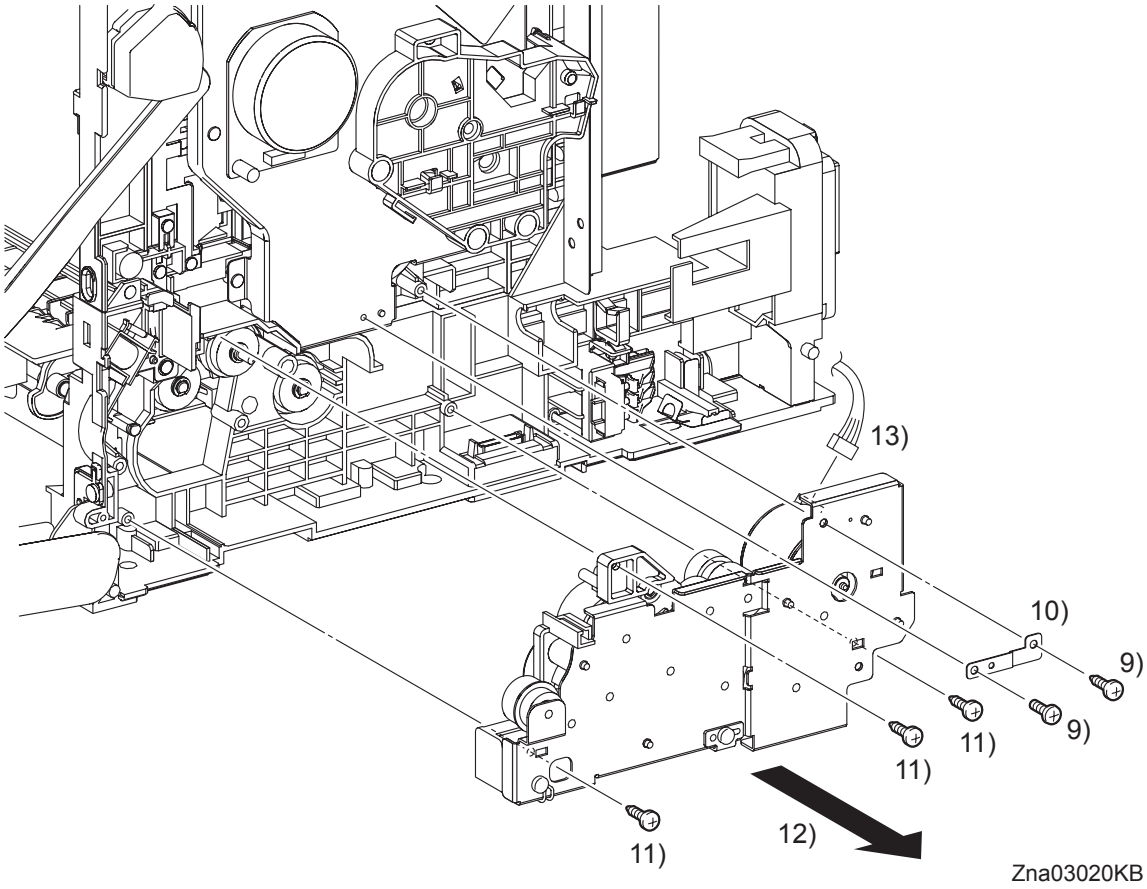
Removal 17 FEED DRIVE ASSEMBLY (PL8.1.7)



9) Remove the one screw (silver, 6mm) and the one screw (silver, tap, 10mm) that fix the PLATE EARTH DRV MP (PL8.1.11) to the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2) and FEED DRIVE ASSEMBLY.
10) Remove the PLATE EARTH DRV MP from the printer.
11) Remove the three screws (silver, tap, 10mm) that fix the FEED DRIVE ASSEMBLY to the printer.

NOTE

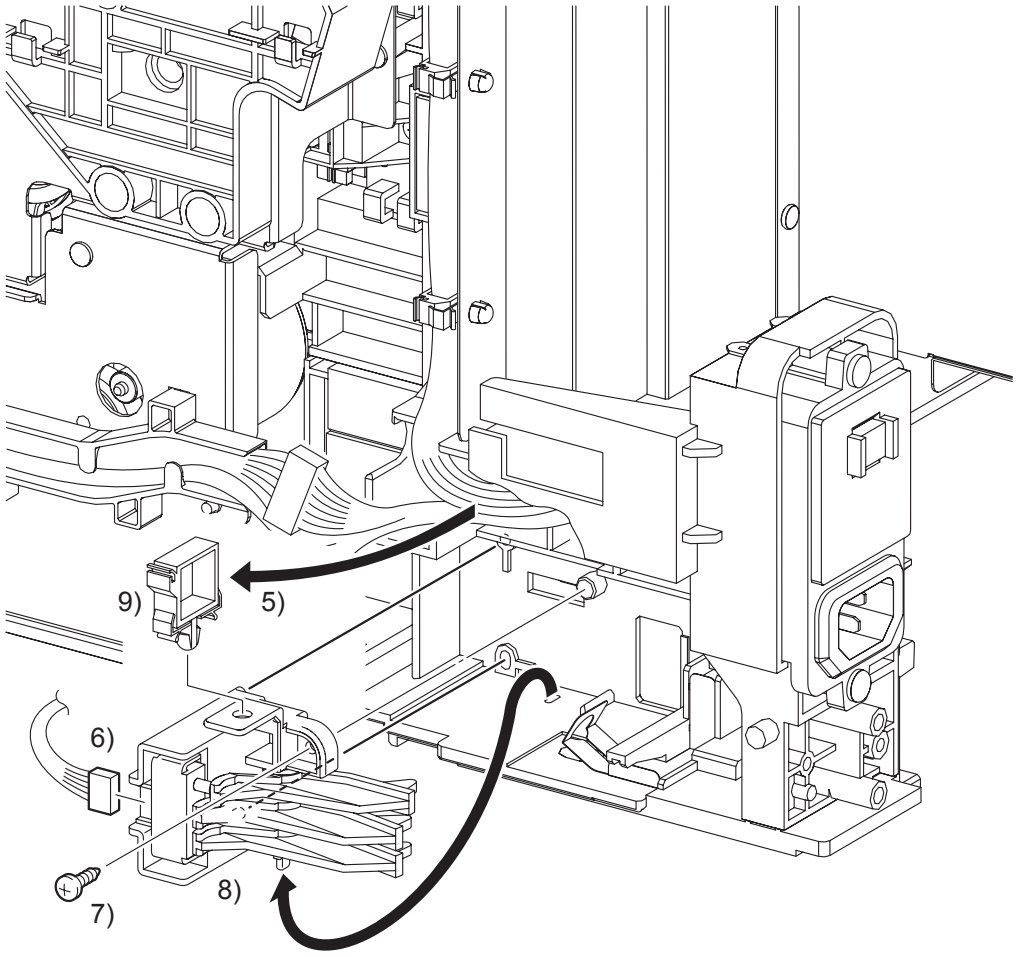
When performing the step described below, take care not to move the FEED DRIVE ASSEMBLY from the printer too far because they are connected with the harness.

12) Remove the FEED DRIVE ASSEMBLY from the printer.
13) Disengage the connector (P/J251) of the FEED DRIVE ASSEMBLY.

Removal 18 SIZE SWITCH ASSEMBLY (PL7.1.18)

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)

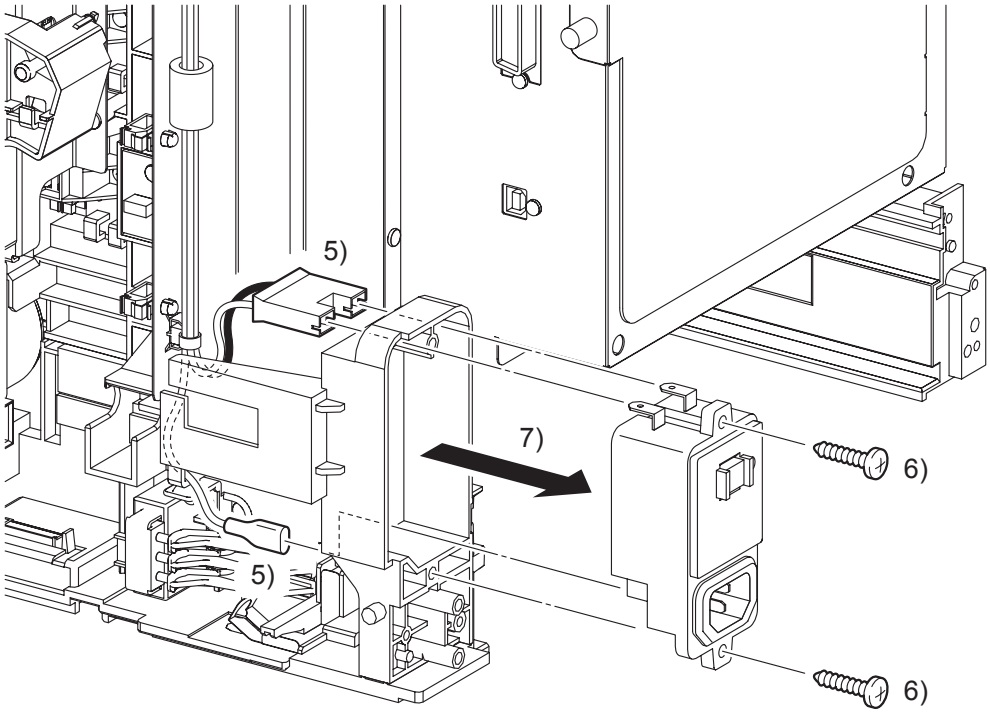


5) Release the clamp on the SIZE SWITCH ASSEMBLY (PL7.1.18), and then remove the harness.
6) Disengage the connector (P/J291) of the SIZE SWITCH ASSEMBLY.
7) Remove the one screw (silver, tap, 10mm) that fixes the SIZE SWITCH ASSEMBLY to the printer.
8) Remove the SIZE SWITCH ASSEMBLY by releasing the two bosses and the backside tab of the SIZE SWITCH ASSEMBLY from the holes on the printer.
9) Remove the clamp from the SIZE SWITCH ASSEMBLY.

Removal 19 BREAKER GFI INLET (PL9.1.43)

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)



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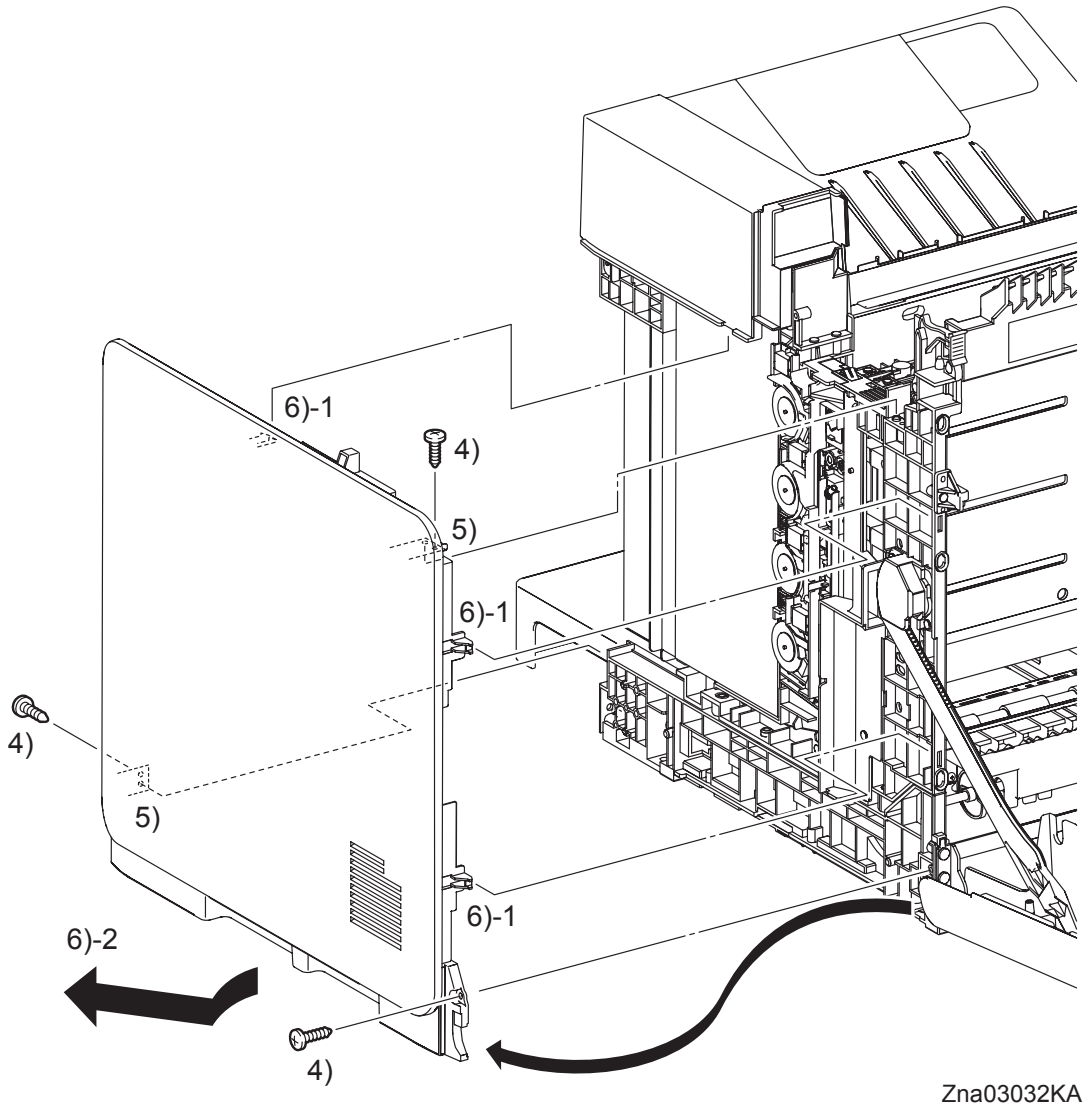
5) Disengage the connector (P/J482) and the FASTON terminal (FS483) on the BREAKER GFI INLET (PL9.1.43).
6) Remove the two screws (silver, tap, 16mm) that fix the BREAKER GFI INLET to the printer.
7) Remove the BREAKER GFI INLET from the printer.

Removal 20 LEFT COVER (PL1.1.7)

Steps 1 through 3 are for reference. Before removing this component, check that Steps 1 through 3 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)



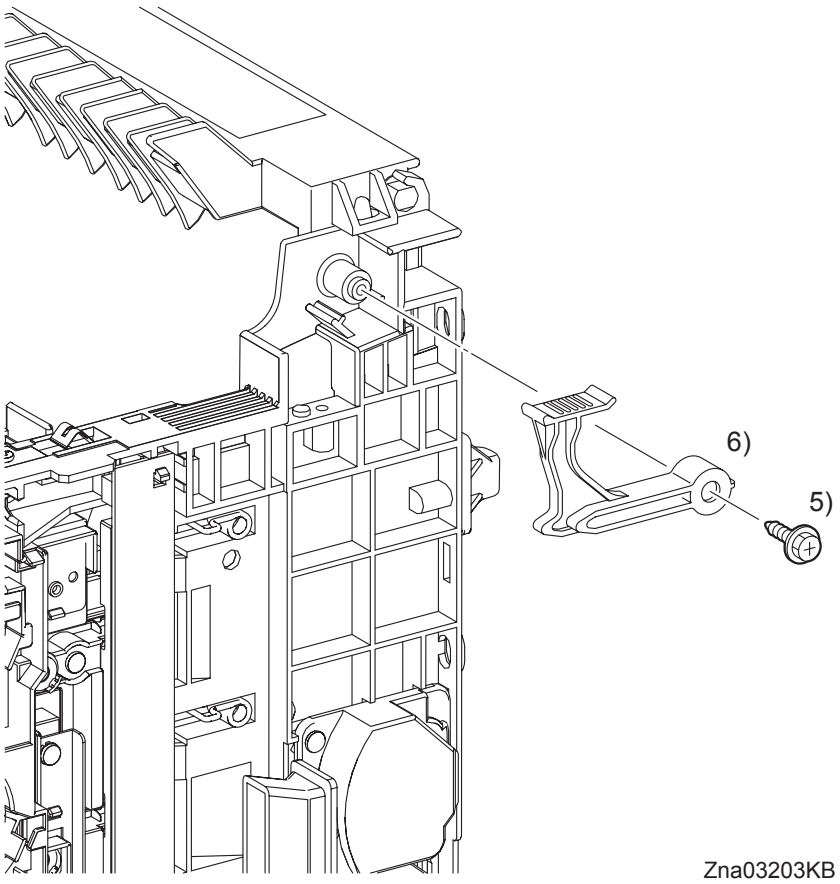
4) Remove three screws (silver, tap, 10mm) that fix the LEFT COVER (PL1.1.7) to the printer.
5) Release the two holes on the LEFT COVER from the bosses on the printer.
6) Release the one backside hook and two front side hooks on the LEFT COVER, and then remove the LEFT COVER from the printer by moving it diagonally backward.

Go to the next removal step:
Removal 21 LEVER FUSER AD (PL6.1.19), Removal 22 ARM ASSEMBLY (PL7.1.98), Removal 23 LED ASSEMBLY (PL5.1.15), Removal 24 TONER DISPENSER MOTOR (PL5.1.12), Removal 25 SHIELD ASSY ESS (PL9.1.45), Removal 31 TOP COVER (PL1.1.1)

Removal 21 LEVER FUSER AD (PL6.1.19)

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the LEFT COVER. (Removal 20)



5) Remove the one screw (silver, with flange, tap, 10mm) that fixes the LEVER FUSER AD (PL6.1.19) to the printer.
6) Remove the LEVER FUSER AD from the printer.

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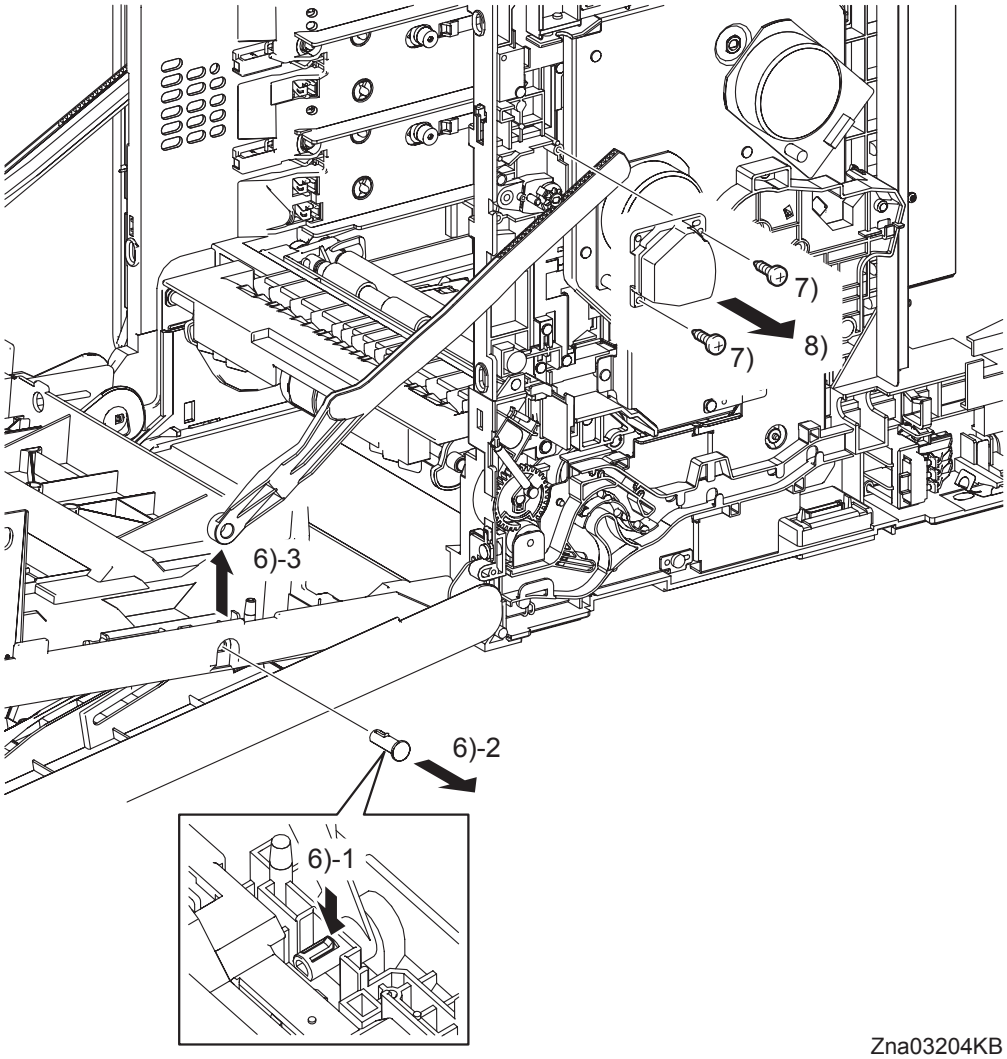
Removal 22 ARM ASSEMBLY (PL7.1.98)

Steps 1 through 5 are for reference. Before removing this component, check that Steps 1 through 5 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)



6) Release the hook of the SHAFT PIVOT (PL1.2.8) that fixes the LINK R (PL7.1.13) to the FRONT COVER (PL1.2.1), an then pull the SHAFT PIVOT to the outside and remove the LINK R from the FRONT COVER.
7) Remove the two screws (silver, tap, 10mm) that fix the SUPPORT LINK R (PL7.1.12) to the printer.
8) Remove the SUPPORT LINK R from the printer.

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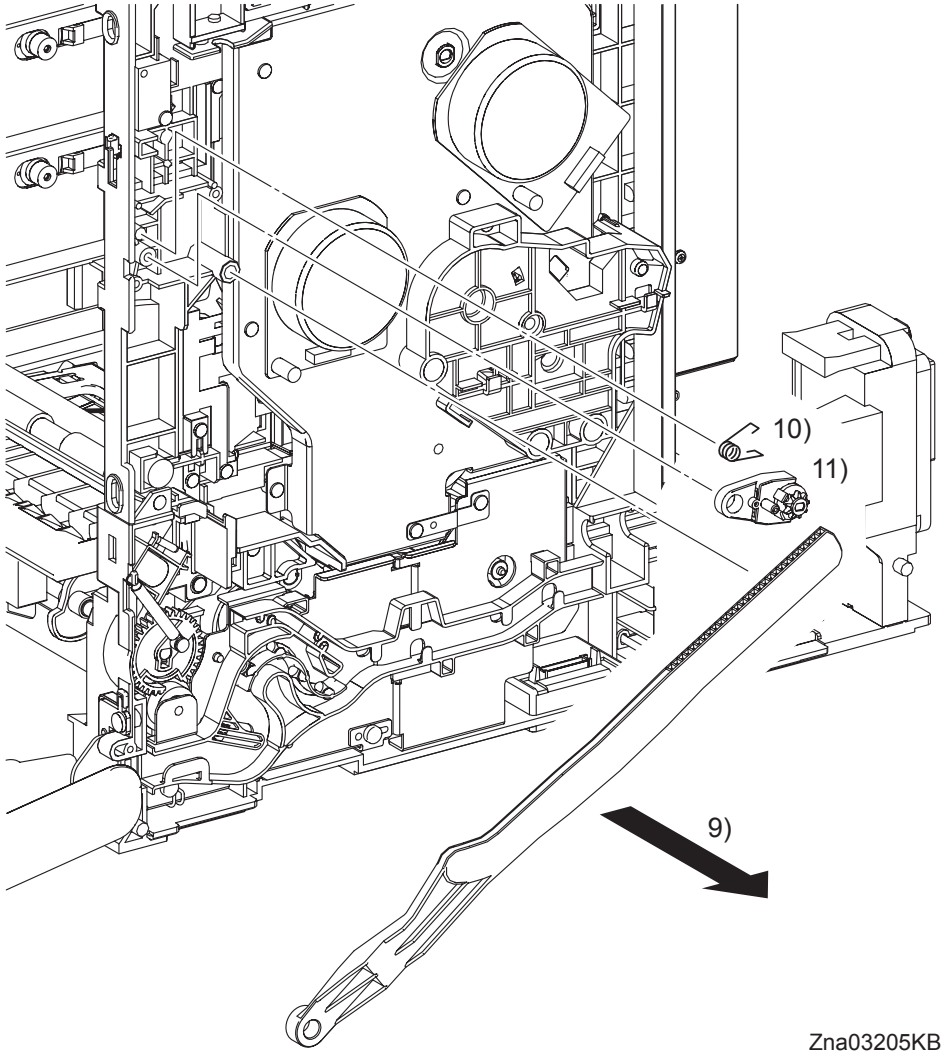
Removal 22 ARM ASSEMBLY (PL7.1.98)



9) Remove the LINK R from the printer.
10) Remove the SPRING SUPPORT (PL7.1.8) from the printer.
11) Remove the HOLDER DAMPER (PL7.1.6) from the printer together with the DAMPER OIL (PL7.1.7).

NOTE

When performing the step describe below, take care not to drop or damage the FRONT COVER.

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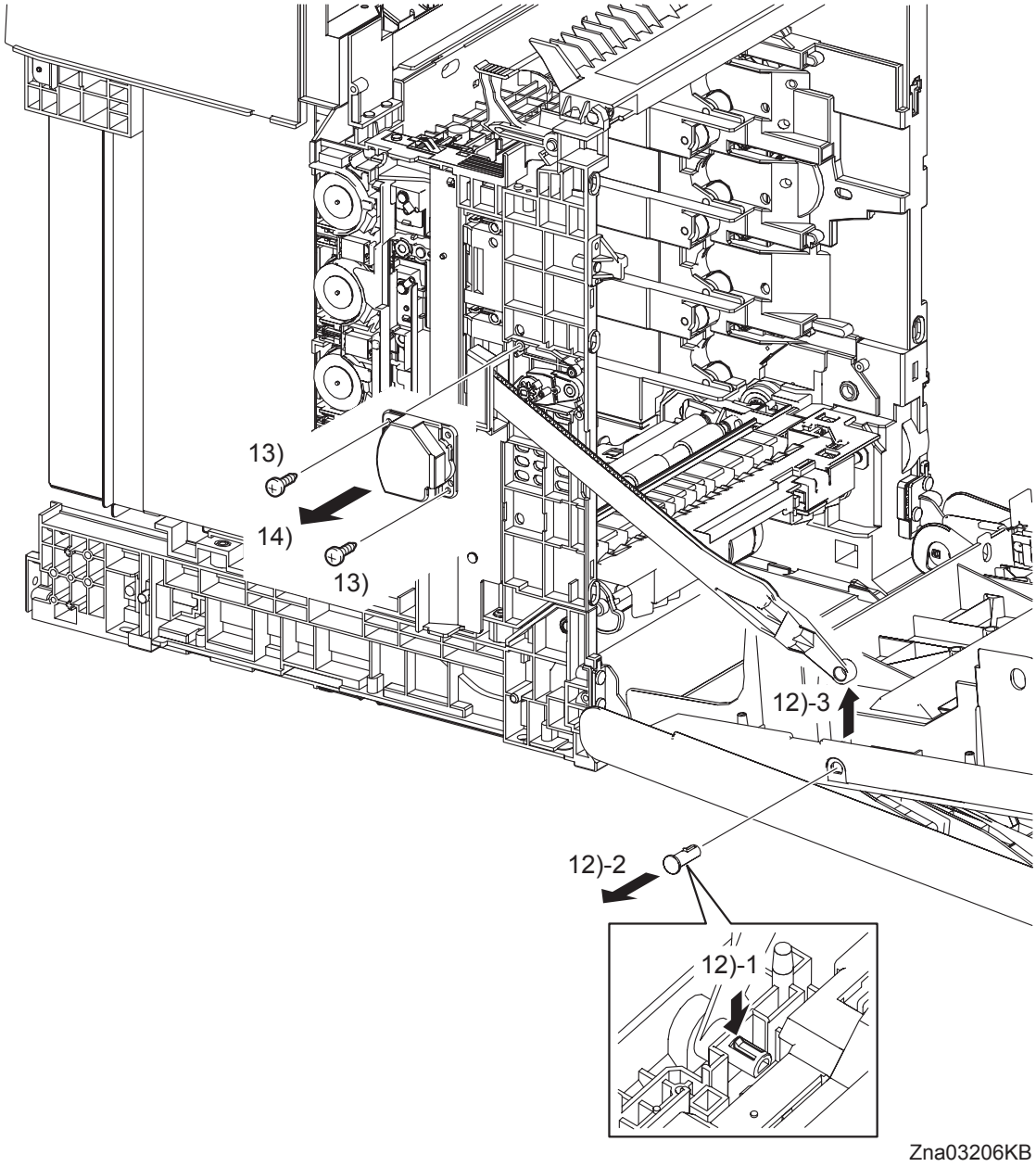
Removal 22 ARM ASSEMBLY (PL7.1.98)



12) Release the hook of the SHAFT PIVOT that fixes the LINK L (PL7.1.3) to the FRONT COVER, and then remove the LINK L from the FRONT COVER by pulling the SHAFT PIVOT to the outside.
13) Remove the two screws (silver, tap, 10mm) that fix the SUPPORT LINK L (PL7.1.2) to the printer.
14) Remove the SUPPORT LINK L from the printer.

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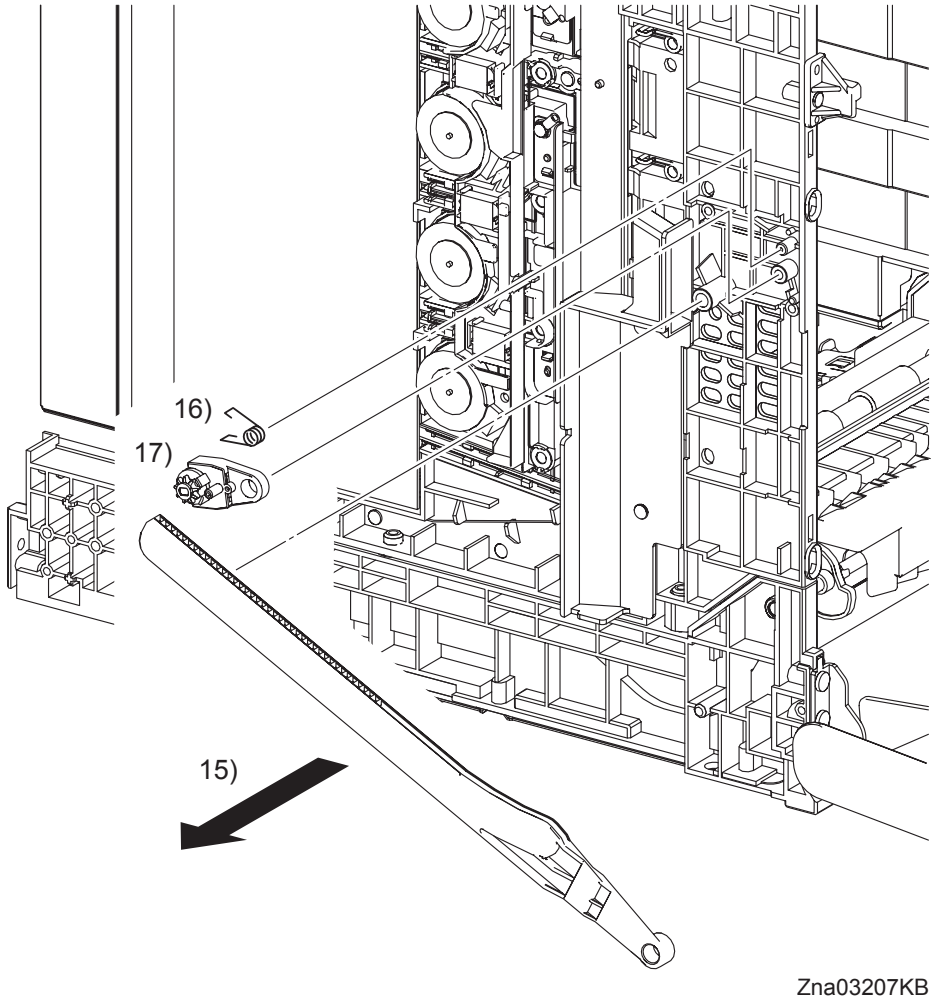
Removal 22 ARM ASSEMBLY (PL7.1.98)

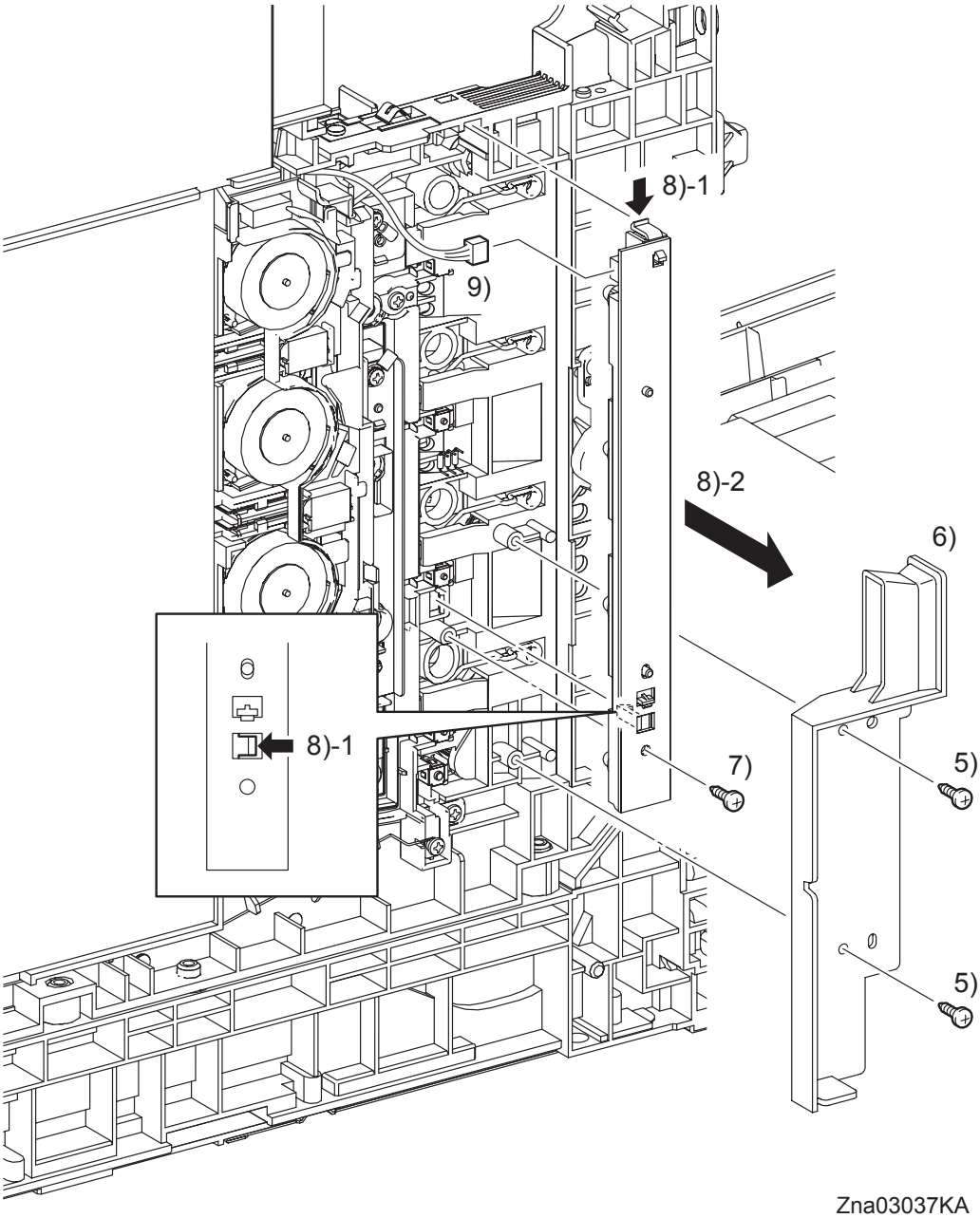


15) Remove the LINK L from the printer.
16) Remove the SPRING SUPPORT (PL7.1.8) from the printer.
17) Remove the HOLDER DAMPER (PL7.1.6) from the printer together with the DAMPER OIL

Removal 23 LED ASSEMBLY (PL5.1.15)

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the LEFT COVER. (Removal 20)



5) Remove two screws (silver, tap, 10mm) that fix the DUCT SIDE L (PL7.1.23) to the printer.
6) Remove the DUCT SIDE L from the printer.
7) Remove one screw (silver, tap, 10mm) that fixes the LED ASSEMBLY (PL5.1.15) to the printer.
8) Remove the LED ASSEMBLY from the printer by releasing its two hooks.
9) Disengage the connector (P/J141) of the LED ASSEMBLY.

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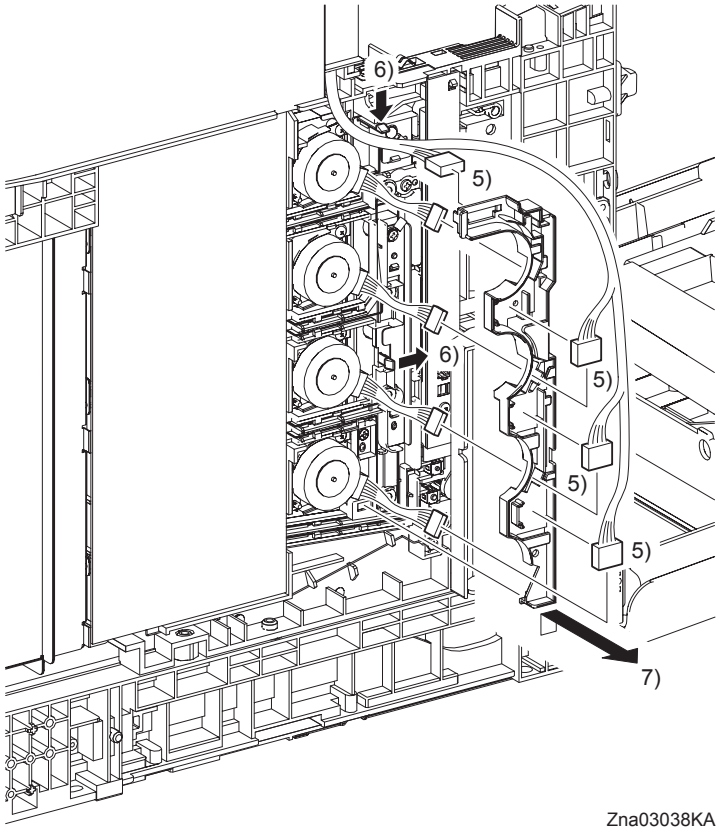
Removal 24 TONER DISPENSER MOTOR (PL5.1.12)

NOTE

Described below is the removal procedure common among the TONER DISPENSER MOTORs (C), (M), (Y), and (K).

Steps 1 through 4 are for reference. Before removing this component, check that Steps 1 through 4 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the LEFT COVER. (Removal 20)



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NOTE

When performing the step below, leave the junction connector on the printer side cable.

5) Release the four sets of connectors and harness of the TONER DISPENSER MOTOR (PL5.1.12) from the DUCT HARNESS MOT (PL5.1.16), and disengage the four sets of connectors of the TONER DISPENSER MOTOR.
6) Release two hooks that fix the DUCT HARNESS MOT to the printer.
7) Release the lug on the DUCT HARNESS MOT from the printer by moving the DUCT HARNESS MOT slightly upward. Pass the four sets connectors of the TONER DISPENSER MOTOR through the hole on the DUCT HARNESS MOT, and then remove the DUCT HARNESS MOT.

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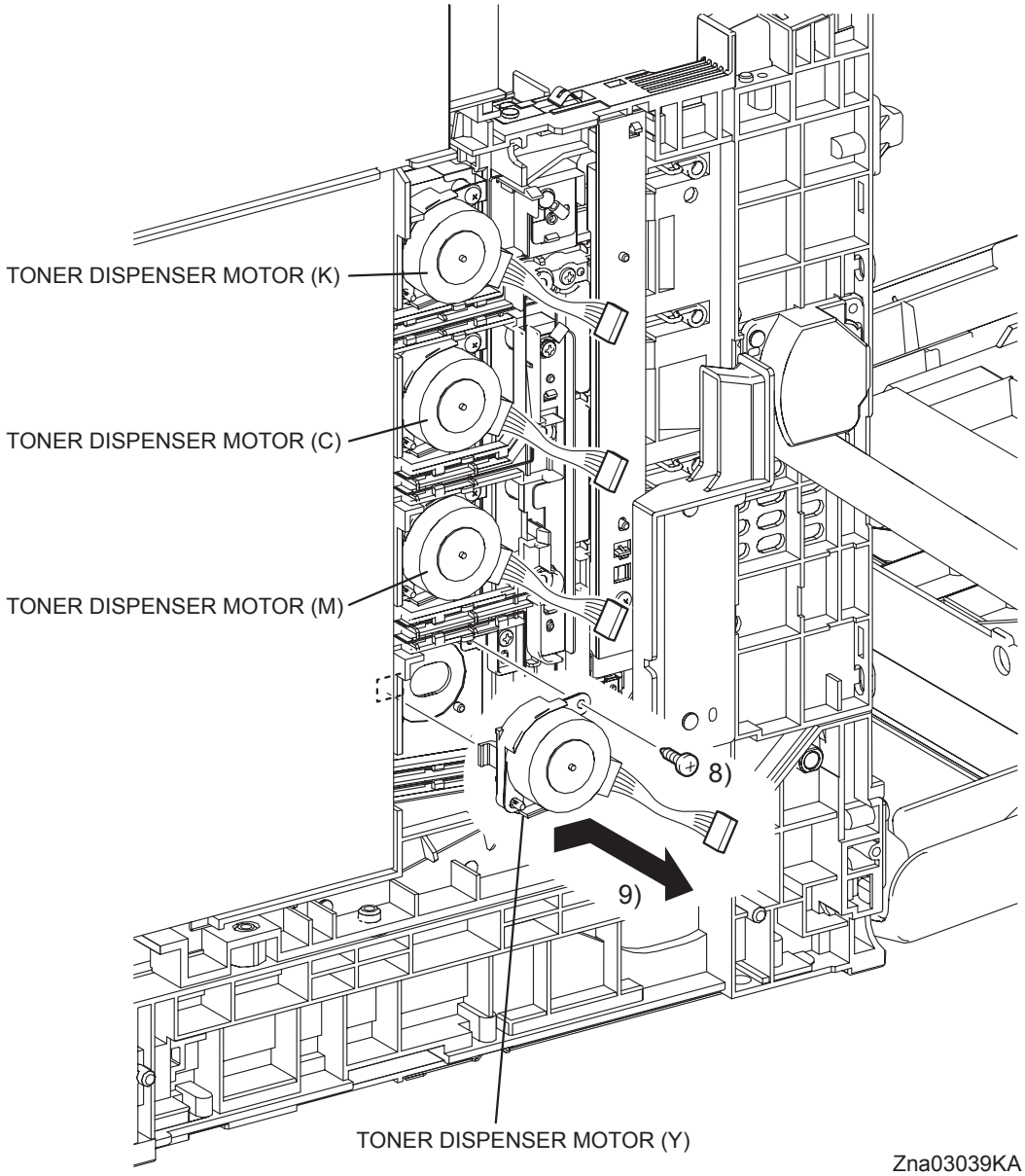
Removal 24 TONER DISPENSER MOTOR (PL5.1.12)



8) Remove the one screw (silver, tap, 10mm) that fixes the TONER DISPENSER MOTOR to the printer.
9) Release the lug on the TONER DISPENSER MOTOR by moving the TONER DISPENSER MOTOR slightly upward. Remove the TONER DISPENSER MOTOR from the printer.

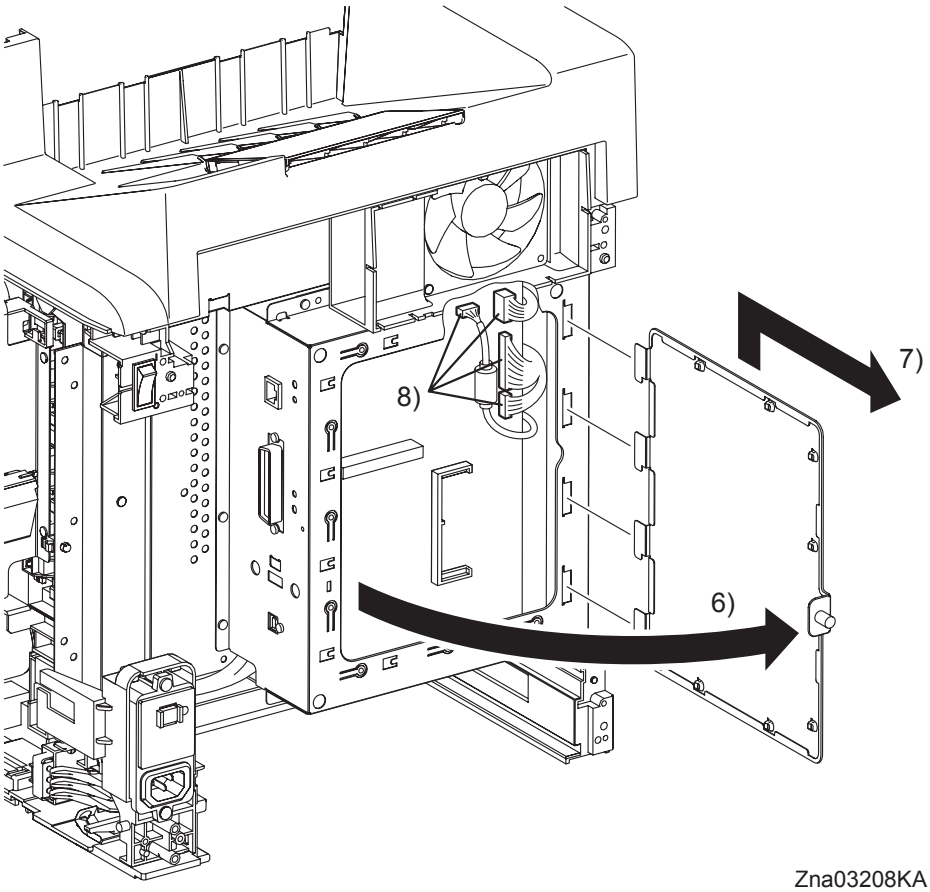
Removal 25 SHIELD ASSY ESS (PL9.1.45)

NOTE

If there are the WIRELESS PRINTER ADAPTER and the HARD DISC on the ELECTRONIC SUB-SYSTEM CONTROL BOARD, remove it before working.

Steps 1 through 5 are for reference. Before removing this component, check that Steps 1 through 5 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)



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6) Loosen the SCREW KNURLING (PL9.1.44) and open the SHIELD WINDOW (PL9.1.21).
7) Lift the SHIELD WINDOW slightly up to release the four tabs of the SHIELD WINDOW from the holes of the SHIELD ESS (PL9.1.25)
8) Disengage all the connectors of the ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27).

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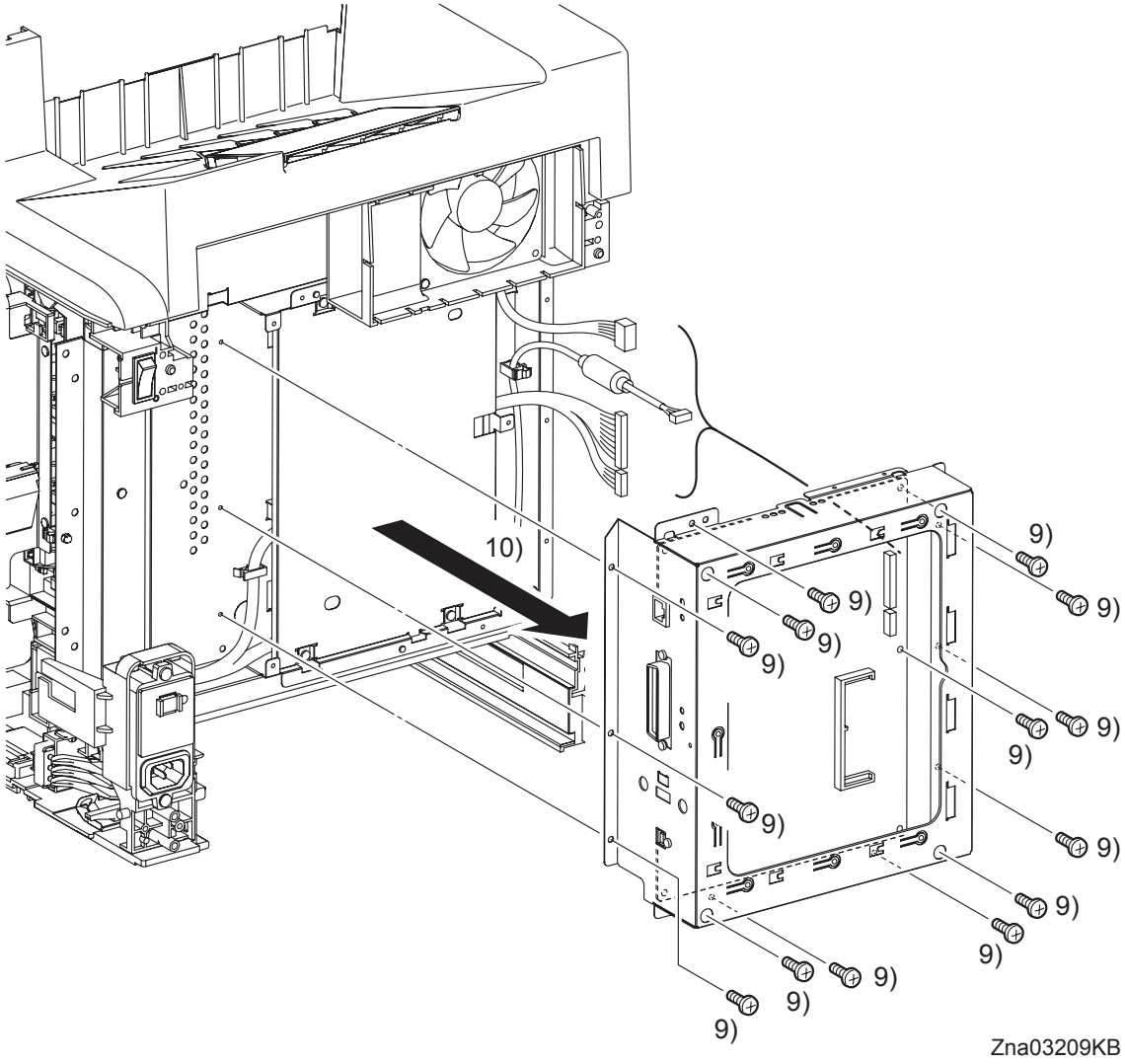
Removal 25 SHIELD ASSY ESS (PL9.1.45)



9) Remove the fourteen screws (silver, 6mm) that fix the SHIELD ASSY ESS (PL9.1.45) to the printer.
10) Remove the SHIELD ASSY ESS from the printer.

Go to the next removal step:
Removal 26 ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27), Removal 27 SHIELD MCU (PL9.1.42)

Removal 26 ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27)

NOTE

Use a wristband to protect the PWB from electrostatic damage.

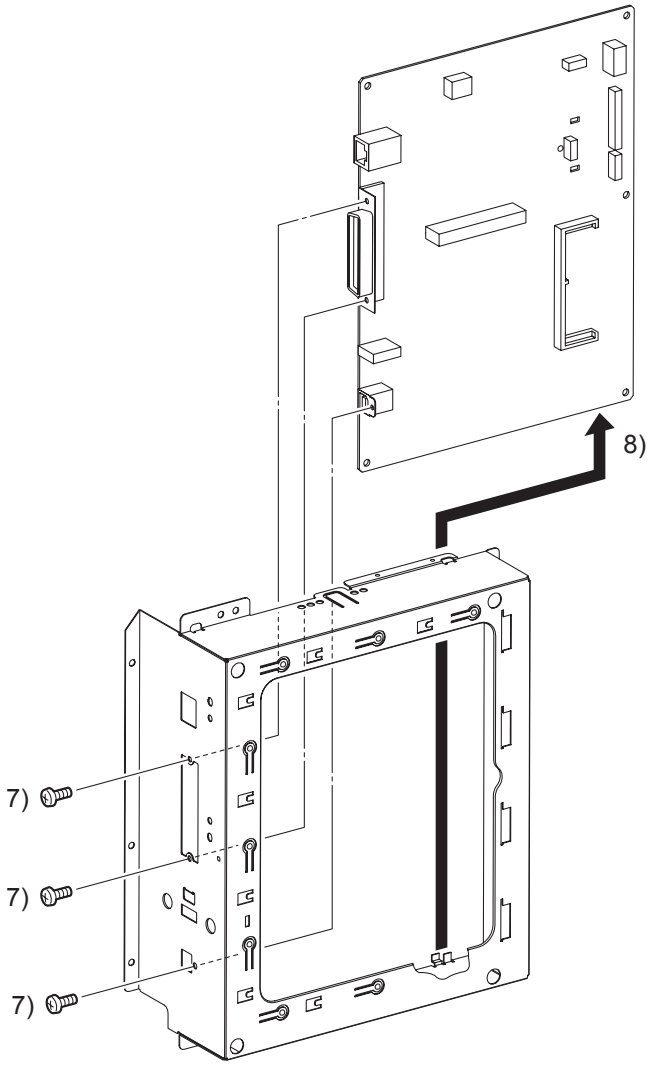
Steps 1 through 6 are for reference. Before removing this component, check that Steps 1 through 6 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)

NOTE

If there are the WIRELESS PRINTER ADAPTER and the HARD DISC on the ELECTRONIC SUB-SYSTEM CONTROL BOARD, remove it before removing the SHIELD ASSY ESS.

6) Remove the SHIELD ASSY ESS. (Removal 25)



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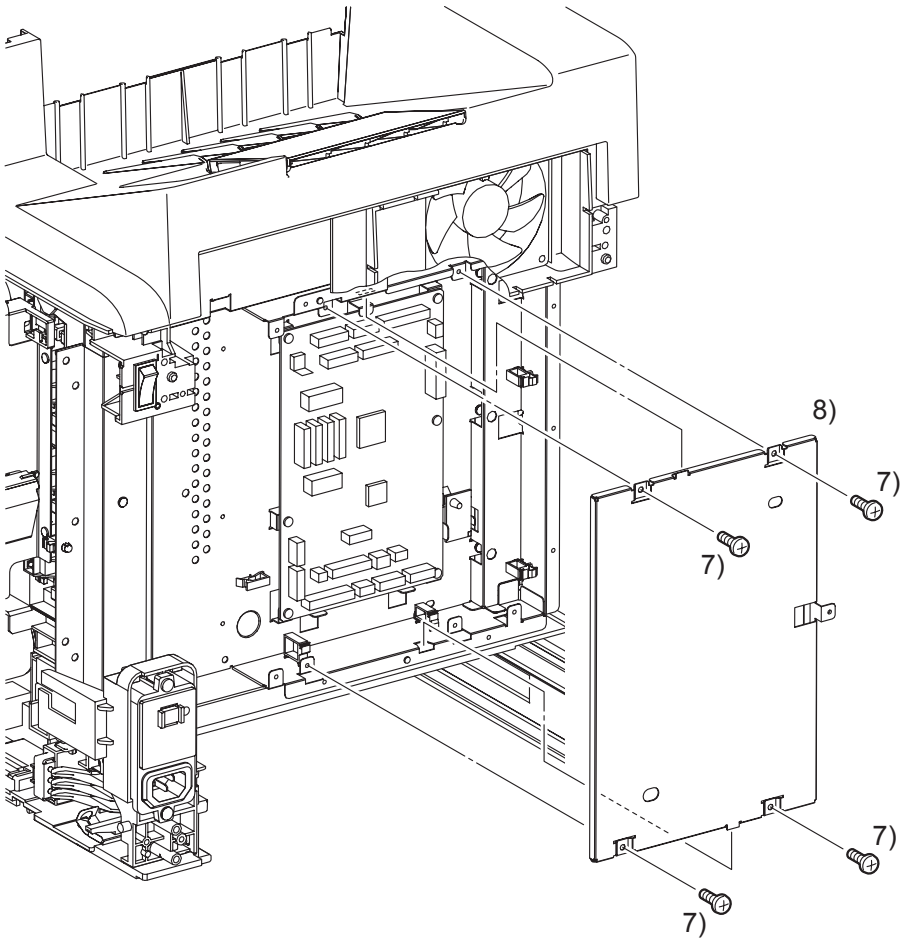
7) Remove all the screws that fix the connectors of the ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27) to the SHIELD ESS (PL9.1.25).
8) Remove the ELECTRONIC SUB-SYSTEM CONTROL BOARD from the SHIELD ESS.

Removal 27 SHIELD MCU (PL9.1.42)

Steps 1 through 6 are for reference. Before removing this component, check that Steps 1 through 6 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the SHIELD ASSY ESS. (Removal 25)



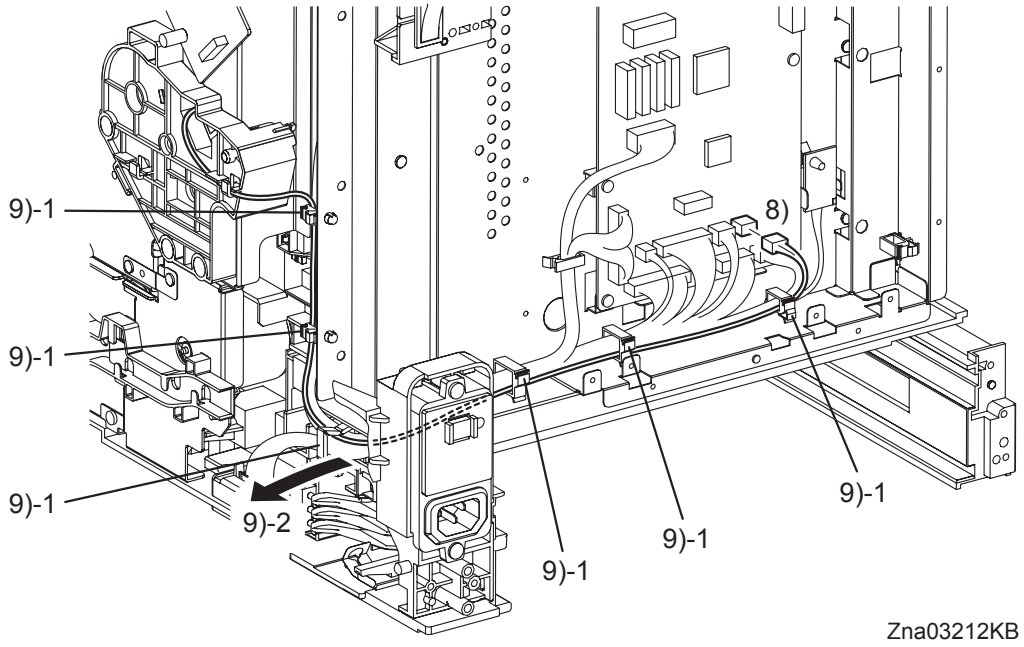
7) Remove the four screws (silver, 6mm) that fix the SHIELD MCU (PL9.1.42) to the printer.
8) Release the two tabs of the SHIELD MCU from the holes of the SHIELD REAR, and then remove the SHIELD MCU from the printer.

Go to the next removal step:
Removal 28 DRIVE ASSY K (PL8.1.10), Removal 29 HUMIDITY SENSOR (PL9.1.19), Removal 30 MACHINE CONTROL UNIT (PL9.1.20)

Removal 28 DRIVE ASSY K (PL8.1.10)

Steps 1 through 7 are for reference. Before removing this component, check that Steps 1 through 7 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the SHIELD ASSY ESS. (Removal 25)
7) Remove the SHIELD MCU. (Removal 27)



8) Disengage the connector (P/J20) on the MACHINE CONTROL UNIT (PL9.1.20).
9) Release the harness of the K Mode Sensor from the six clamps, and then put the harness into the hole of the frame to remove it.

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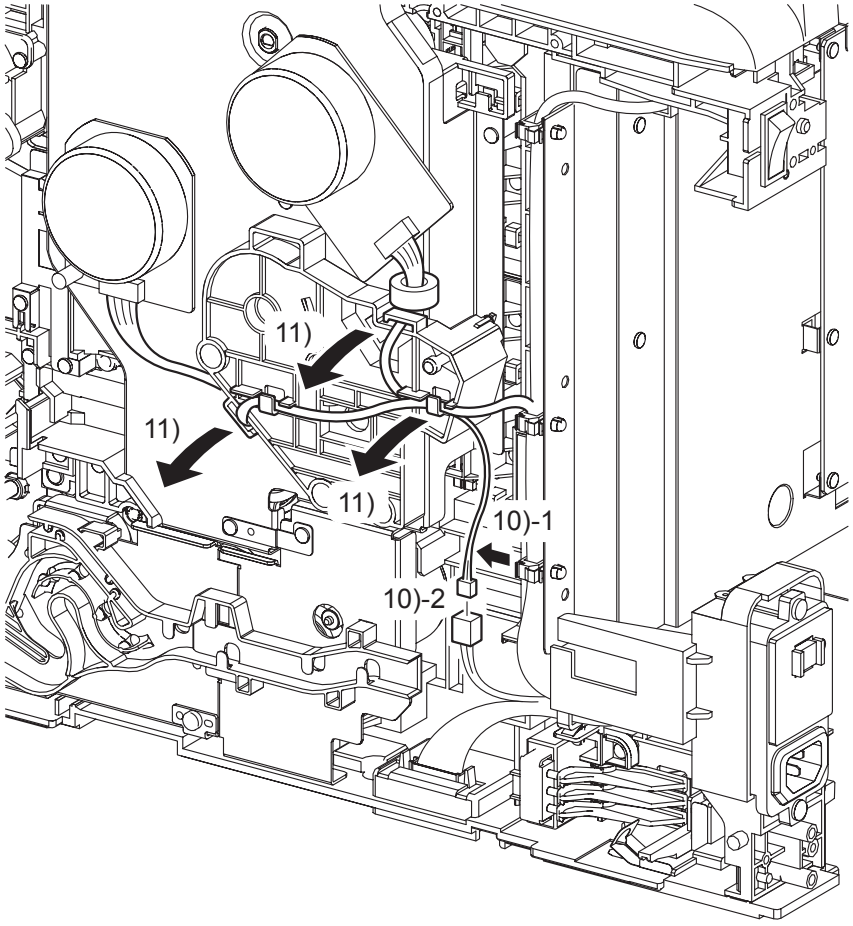
Removal 28 DRIVE ASSY K (PL8.1.10)



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NOTE

When performing the step below, leave the junction connector on the printer side cable.

10) Release the harness of the K Mode Solenoid in the DRIVE ASSY from the clamp, and then disengage the connector (P/J241).
11) Release the harness connected to the Main Motor and the Sub Motor in the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2) from the hook of the DRIVE ASSY K.

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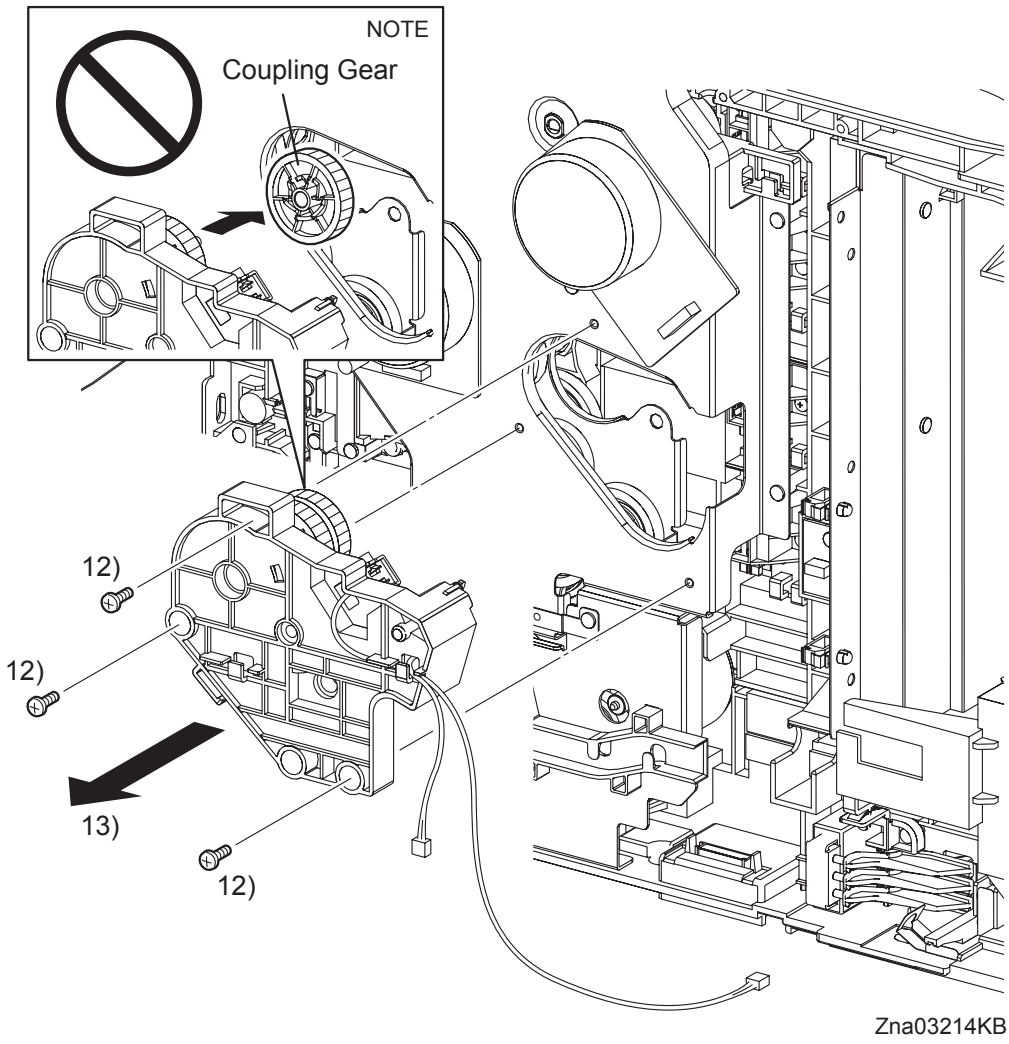
Removal 28 DRIVE ASSY K (PL8.1.10)



12) Remove the three screws (silver, 6mm) that fix the DRIVE ASSY K to the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE.

NOTE

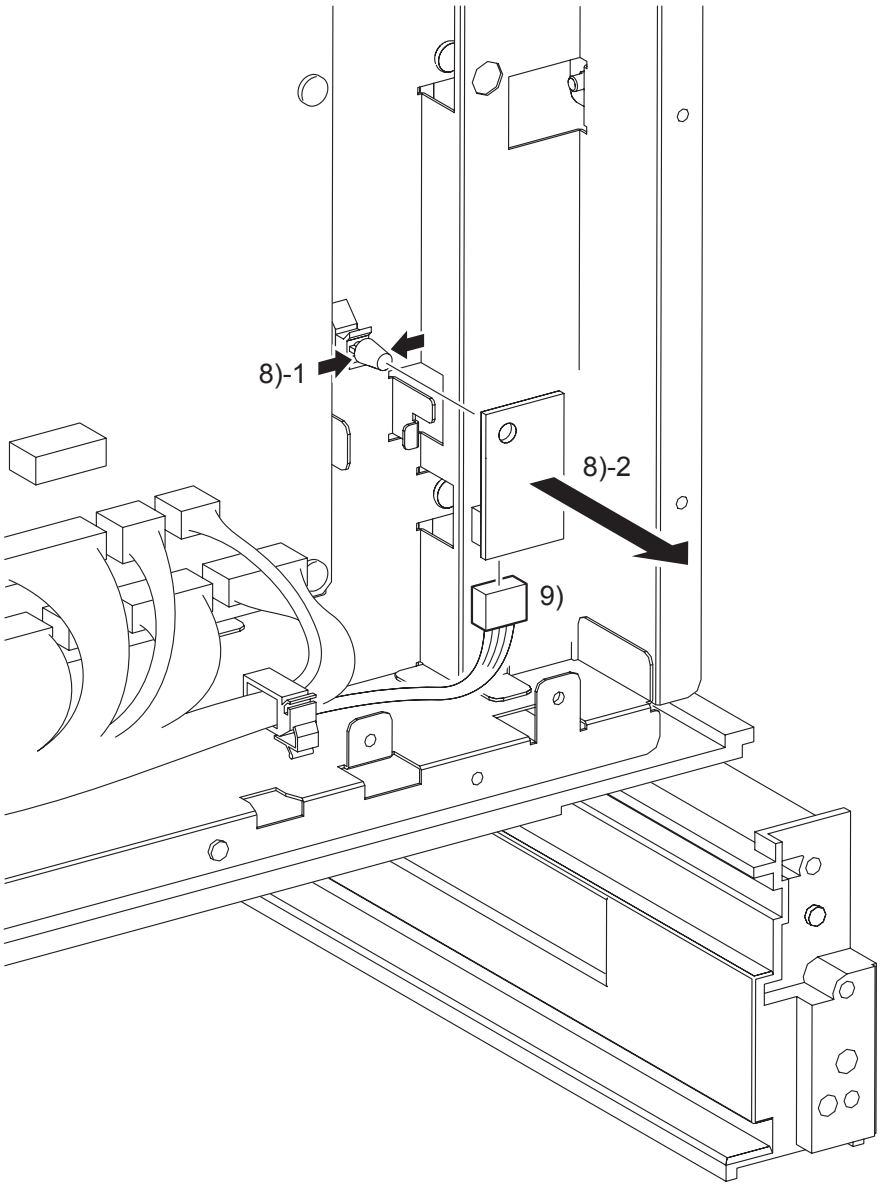
When carrying out the work described next procedure, take care not to drop the coupling gear to inside.

13) Remove the DRIVE ASSY K from the printer.

Removal 29 HUMIDITY SENSOR (PL9.1.19)

Steps 1 through 7 are for reference. Before removing this component, check that Steps 1 through 7 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the SHIELD ASSY ESS. (Removal 25)
7) Remove the SHIELD MCU. (Removal 27)



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8) Release the hook of the SPACER (PL9.1.18), and then remove the HUMIDITY SENSOR from the printer.
9) Disengage the connector (P/J261) of the HUMIDITY SENSOR (PL9.1.19).

Removal 30 MACHINE CONTROL UNIT (PL9.1.20)

NOTE

Never fail to perform the diagnostic operation described below. Otherwise the data will be lost in the worst case.

NOTE

Use a wristband to protect the PWB from electrostatic damage.

1) Perform NVM Save to evacuate the MCU data.
2) Turn on the power while pressing the ▶key, ◀key, and [MENU] key on the control panel.
3) Enter the password, press the ▲ key twice, and press the ✓ key once. The diagnostic screen comes up.
4) Press the ▼ key several times until "IOT Diag" is displayed. Press the ✓ key once.
5) Press the ▼ key several until "NVM Settings" is displayed. Press the ✓ key once.
6) Press the ▼ key several times until "SaveNVM to ESS" is displayed. Press the ✓ key once.
7) Press the ✓ key twice, and SaveNVM to ESS is performed.
8) After SaveNVM to ESS is complete, press the [CANCEL] key several times until "IOT Diag" is displayed.
9) Press the ▼ key several times until "Complete" is displayed.
10) Press the ✓ key three times. "Ready to Print" is displayed.
11) Turn off the power.
12) Remove the POWER CORD from the AC outlet.

Steps 13 through 18 are for reference. Before removing this component, check that Steps 13 through 18 have been performed.

13) Remove the FUSER. (Removal 8)
14) Remove the REAR COVER. (Removal 10)
15) Remove the RIGHT COVER. (Removal 11)
16) Remove the LEFT COVER. (Removal 20)
17) Remove the SHIELD ASSY ESS. (Removal 25)
18) Remove the SHIELD MCU. (Removal 27)

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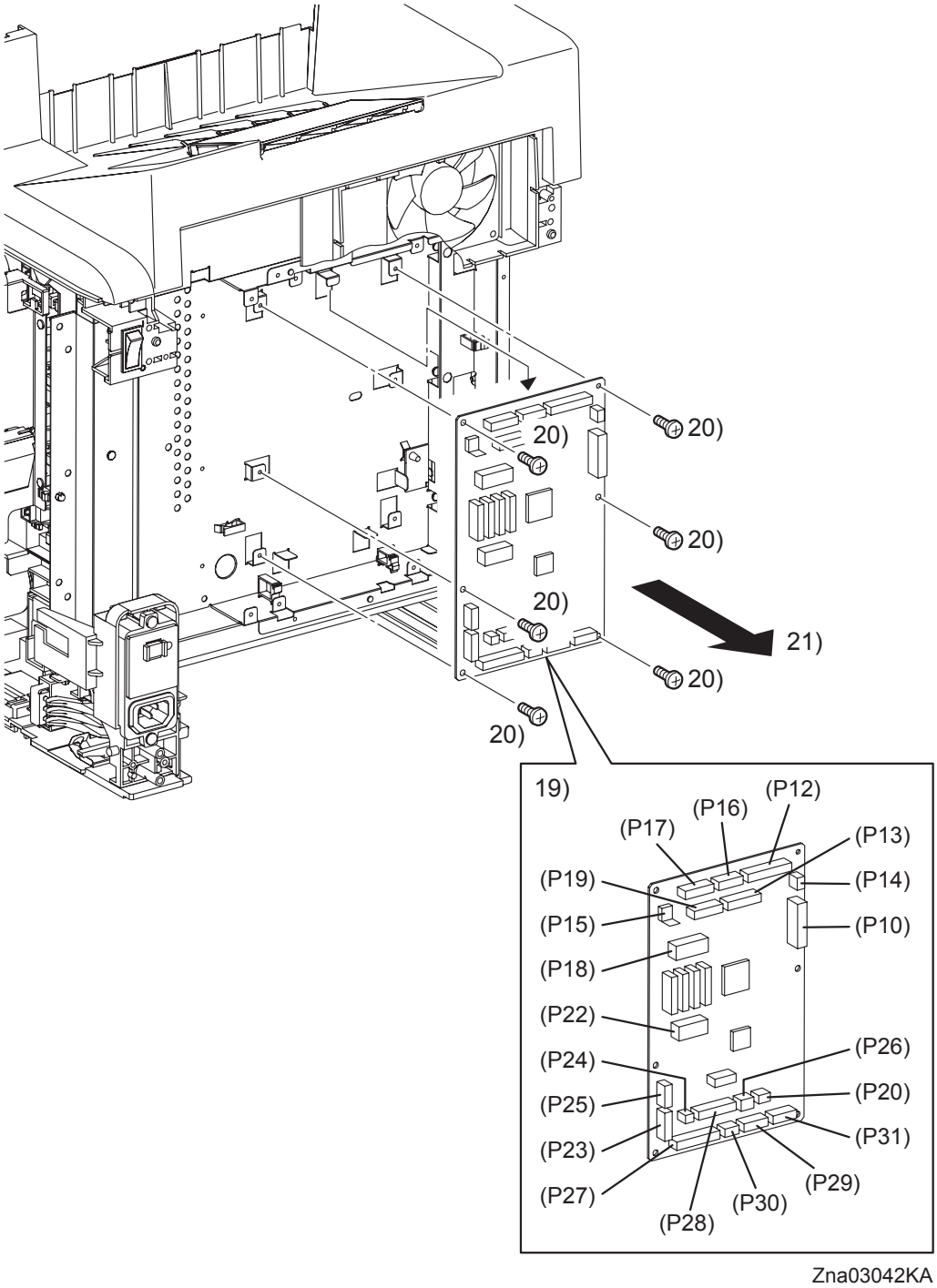
Removal 30 MACHINE CONTROL UNIT (PL9.1.20)

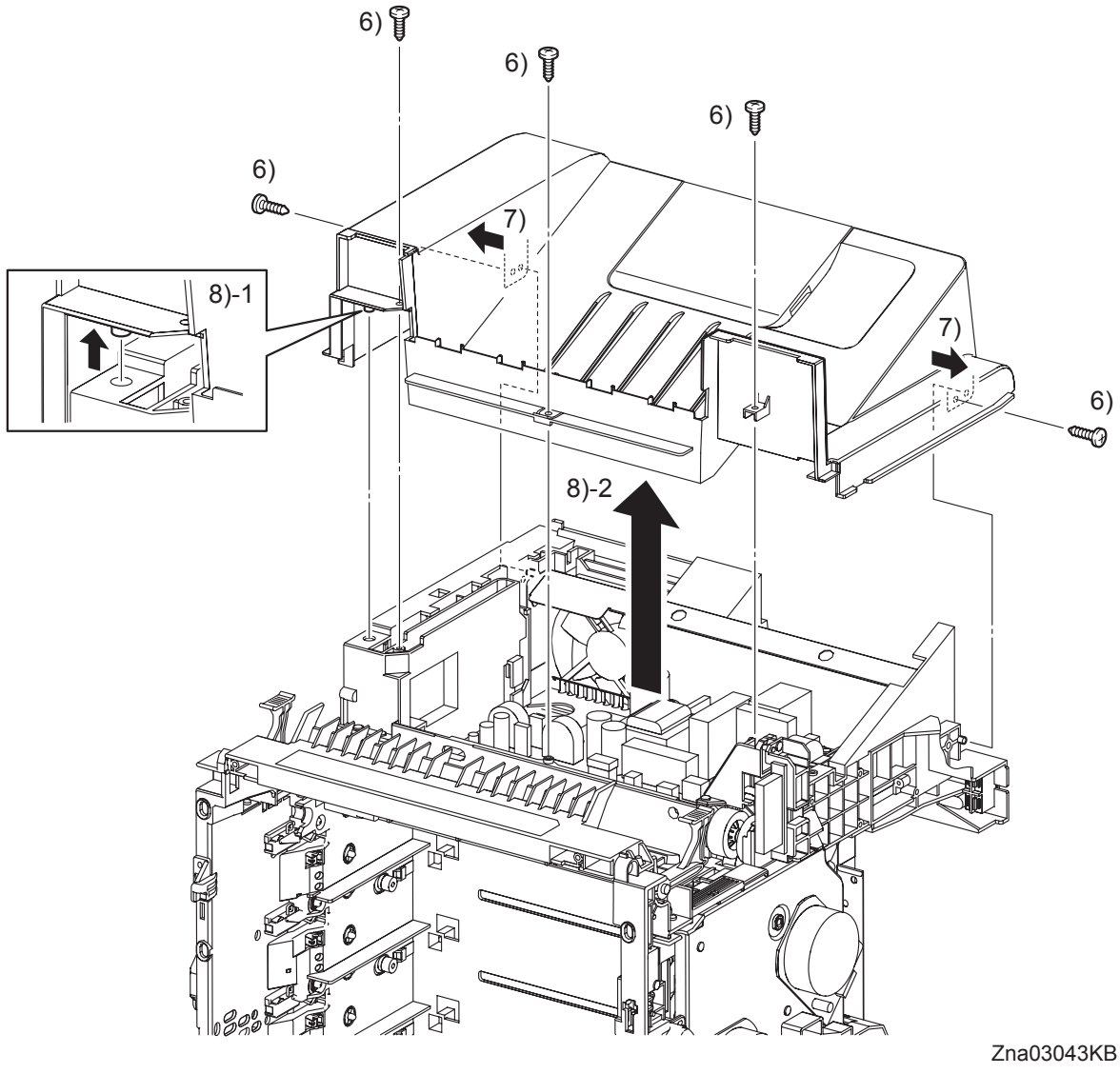


19) Disengage all the connectors of the MACHINE CONTROL UNIT (PL9.1.20).
20) Remove six screws (silver, 6mm) that fix the MACHINE CONTROL UNIT to the printer.
21) Remove the MACHINE CONTROL UNIT from the printer.

Removal 31 TOP COVER (PL1.1.1)

Steps 1 through 5 are for reference. Before removing this component, check that Steps 1 through 5 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)



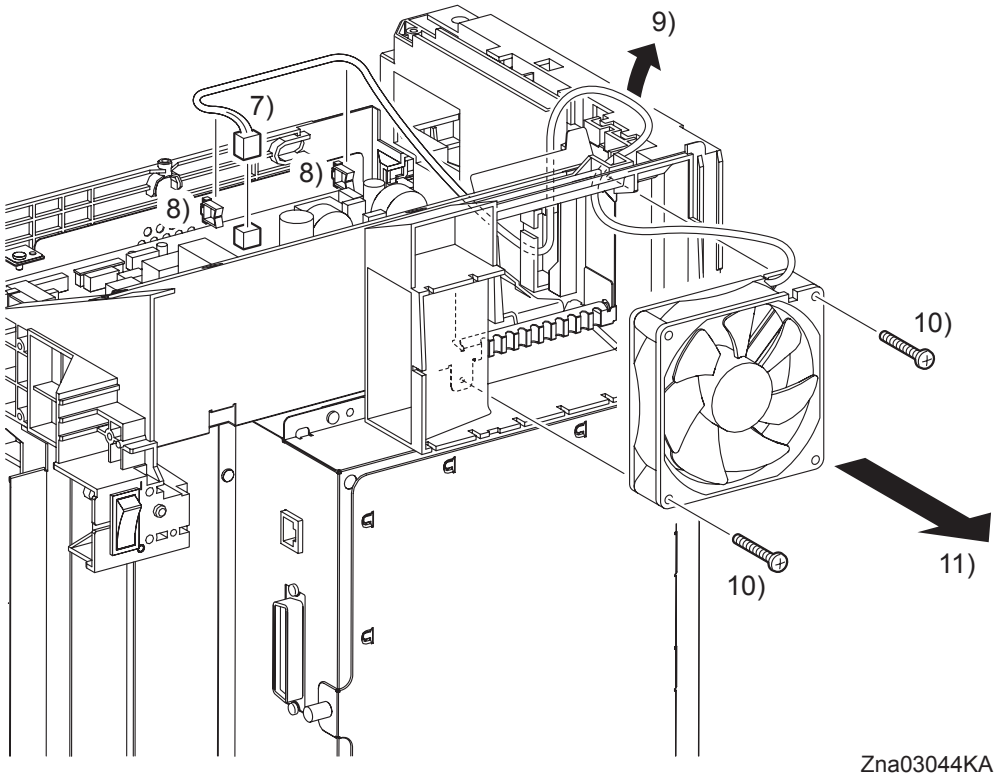
6) Remove the five screws (silver, tap, 10mm) that fix the TOP COVER (PL1.1.1) to the printer.
7) Disengage the two holes of the TOP COVER from the left and right bosses of the printer.
8) Lift up the TOP COVER to disengage the front and left bosses of the TOP COVER from the holes of the printer. Remove it.

Go to the next removal step:
Removal 32 FAN (PL9.1.10) or Removal 37 INTERLOCK SWITCH (PL9.1.3)

Removal 32 FAN (PL9.1.10)

Steps 1 through 6 are for reference. Before removing this component, check that Steps 1 through 6 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the TOP COVER. (Removal 31)

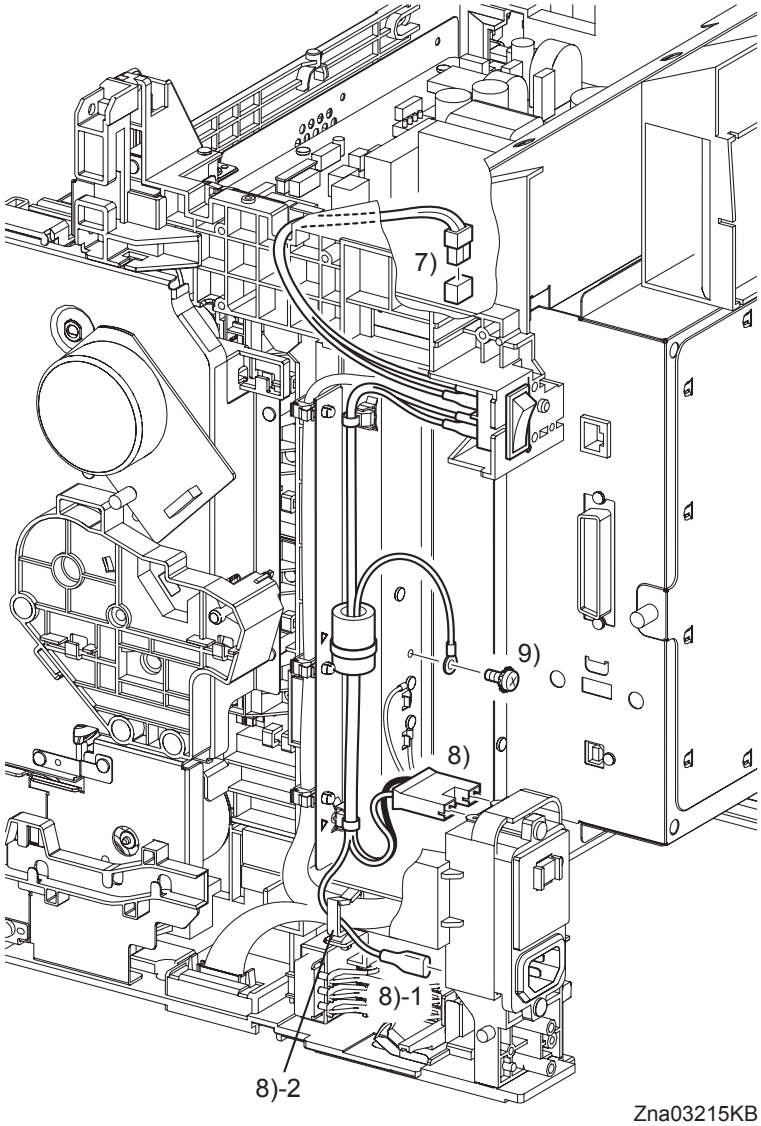


7) Disengage the connector (P/J503) of the FAN (PL9.1.10) on the LOW VOLTAGE POWER SUPPLY (PL9.1.4).
8) Remove the harness of the FAN by releasing the clamps.
9) Release the harness of the FAN from the hook of the printer.
10) Remove the two screws (silver, 30mm) that fix the FAN to the printer.
11) Remove the FAN from the printer.

Removal 33 HARN ASSY AC IN (PL9.1.16)

Steps 1 through 6 are for reference. Before removing this component, check that Steps 1 through 6 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the TOP COVER. (Removal 31)



7) Disengage the connector (P/J48) on the LOW VOLTAGE POWER SUPPLY (PL9.1.4).
8) Disengage the connector (P/J482) and FASTON terminal (FS483) on the BREAKER GFI INLET (PL9.1.43), and then release the grounding wire of the HARN ASSY AC IN (PL9.1.16) from the clamp.
9) Remove the one screw (silver, with washer, M4, 6mm) that fixes the grounding terminal of the HARN ASSY AC IN to the printer.

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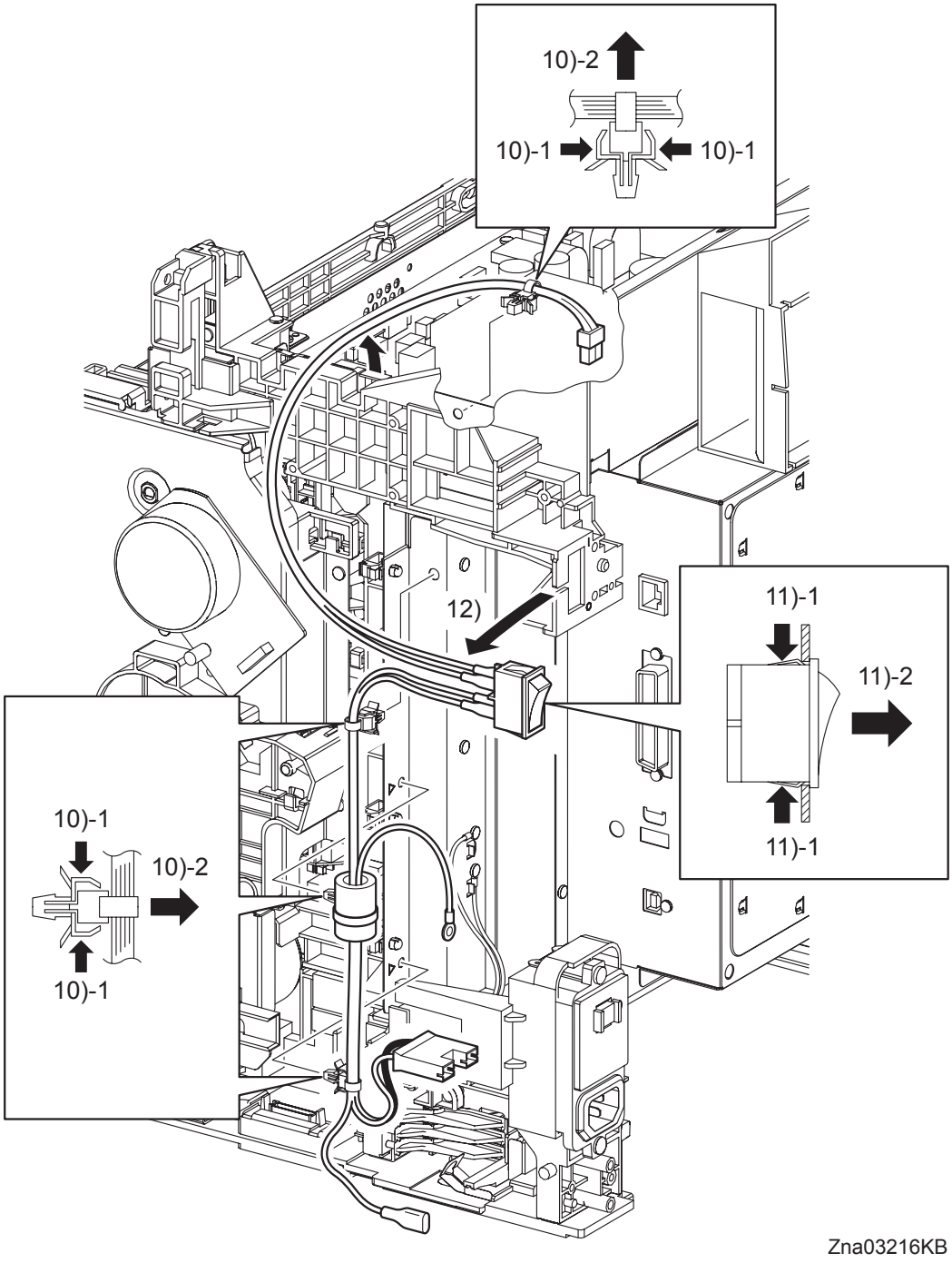
Removal 33 HARN ASSY AC IN (PL9.1.16)



10) Release the harness of the HARN ASSY AC IN from the four clamps.
11) Release the hook of the POWER SWITCH to remove the POWER SWITCH from the printer.
12) Remove the HARN ASSY AC IN from the printer.

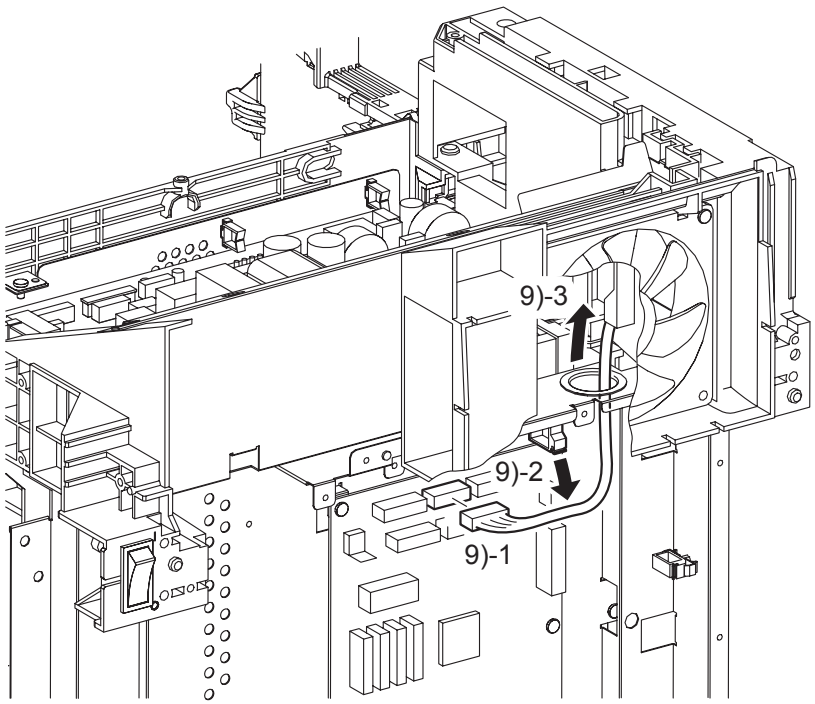
Removal 34 HIGH VOLTAGE POWER SUPPLY (PL5.1.17)

NOTE

Use a wristband to protect the PWB from electrostatic damage.

Steps 1 through 8 are for reference. Before removing this component, check that Steps 1 through 8 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the TOP COVER. (Removal 31)
7) Remove the SHIELD ASSY ESS. (Removal 25)
8) Remove the SHIELD MCU. (Removal 27)



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9) Disengage the connector (P/J16) of the HIGH VOLTAGE POWER SUPPLY (PL5.1.17) on the MACHINE CONTROL UNIT (PL9.1.20), and then pass the connector through the hole on the SHIELD REAR (PL9.1.11).

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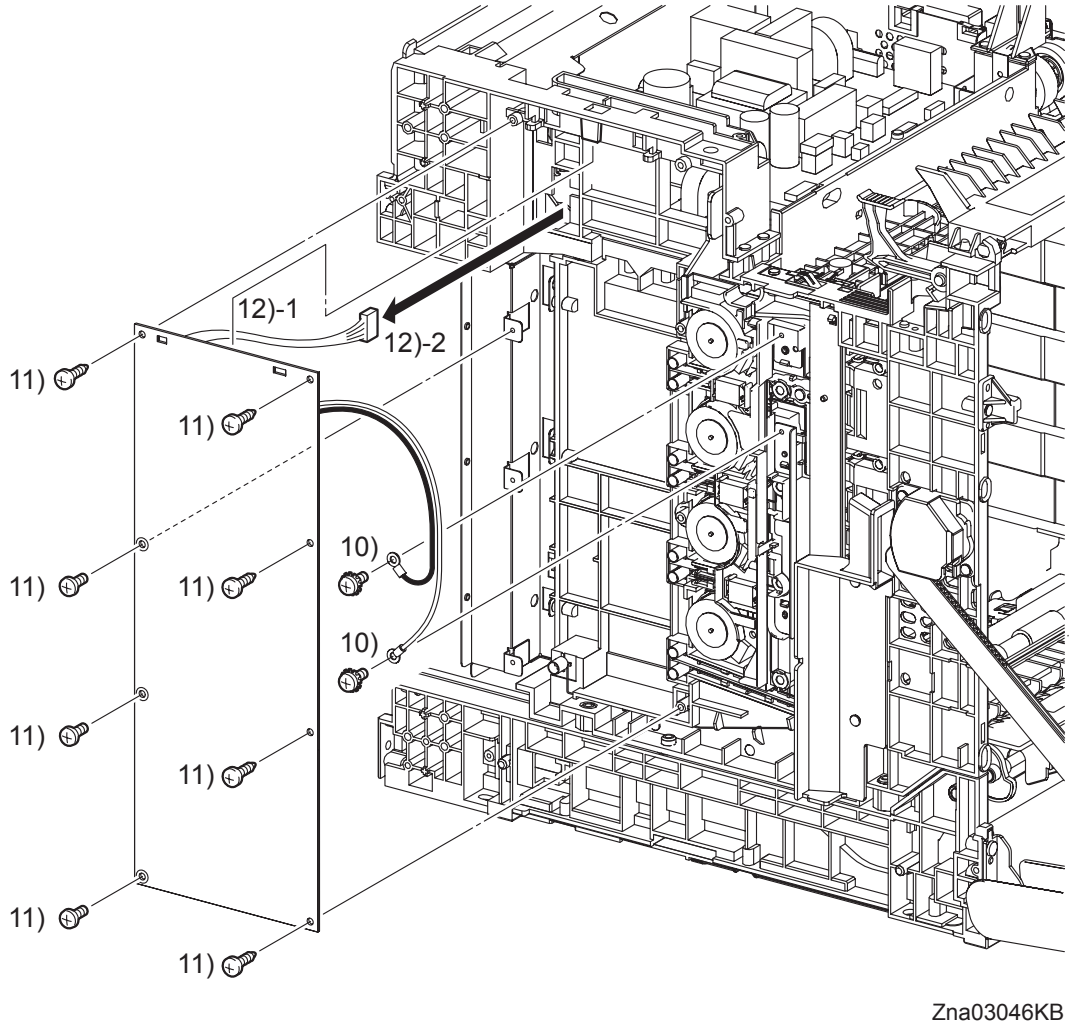
Removal 34 HIGH VOLTAGE POWER SUPPLY (PL5.1.17)



10) Remove the two screws (silver, with washer, 6mm) that fix the two harnesses of the HIGH VOLTAGE POWER SUPPLY.
11) Remove five screws (silver, tap, 10mm) and three screws (silver, 6mm) that fix the HIGH VOLTAGE POWER SUPPLY to the printer.
12) Remove the HIGH VOLTAGE POWER SUPPLY by releasing the upper part of the HIGH VOLTAGE POWER SUPPLY from the two lugs on the printer. Pull out the connector of the HIGH VOLTAGE POWER SUPPLY from the hole on the printer.

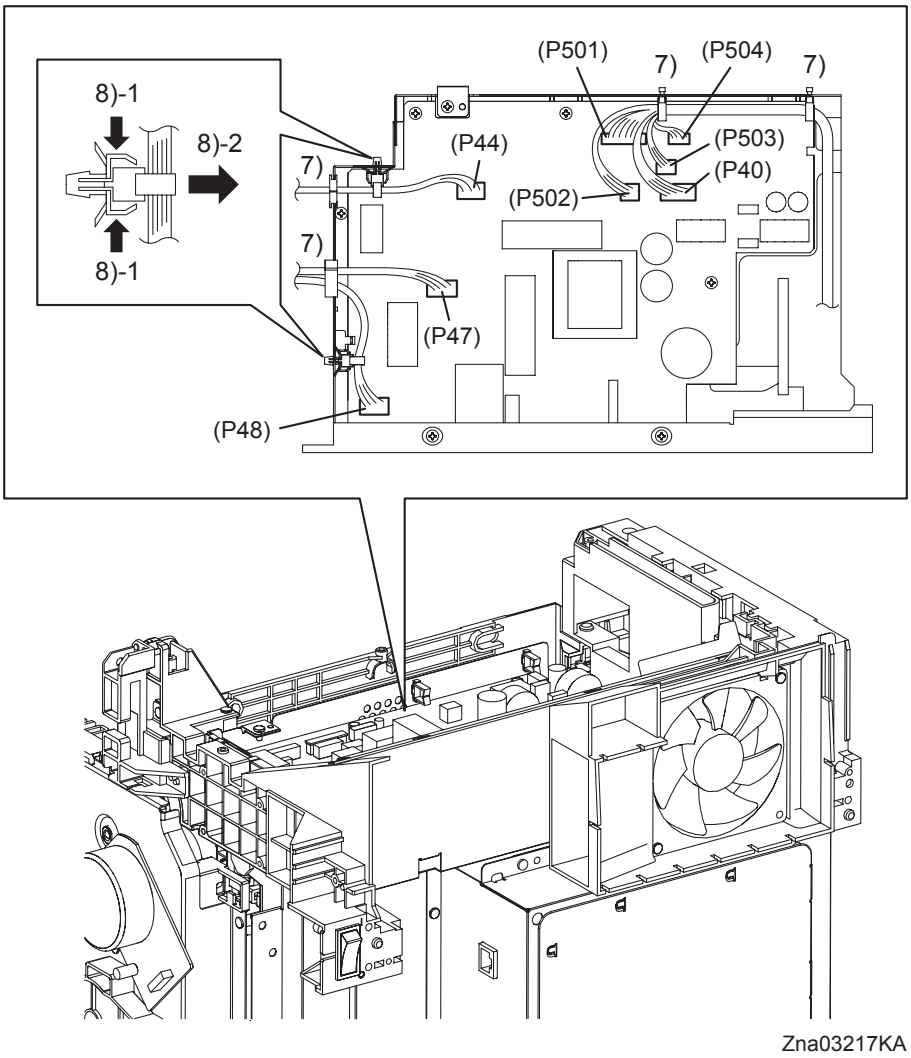
Removal 35 LOW VOLTAGE POWER SUPPLY (PL9.1.4)

NOTE

Use a wristband to protect the PWB from electrostatic damage.

Steps 1 through 6 are for reference. Before removing this component, check that Steps 1 through 6 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the TOP COVER. (Removal 31)



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7) Disengage all the connectors of the LOW VOLTAGE POWER SUPPLY (PL9.1.4), and then release the harness from the clamps.
8) From the SHIELD LVPS (PL9.1.9), remove the clamp that fixes the harness of the INTER-LOCK SWITCH (PL9.1.3) and the clamp that fixes the harness of the HARN ASSY AC IN (PL9.1.16).

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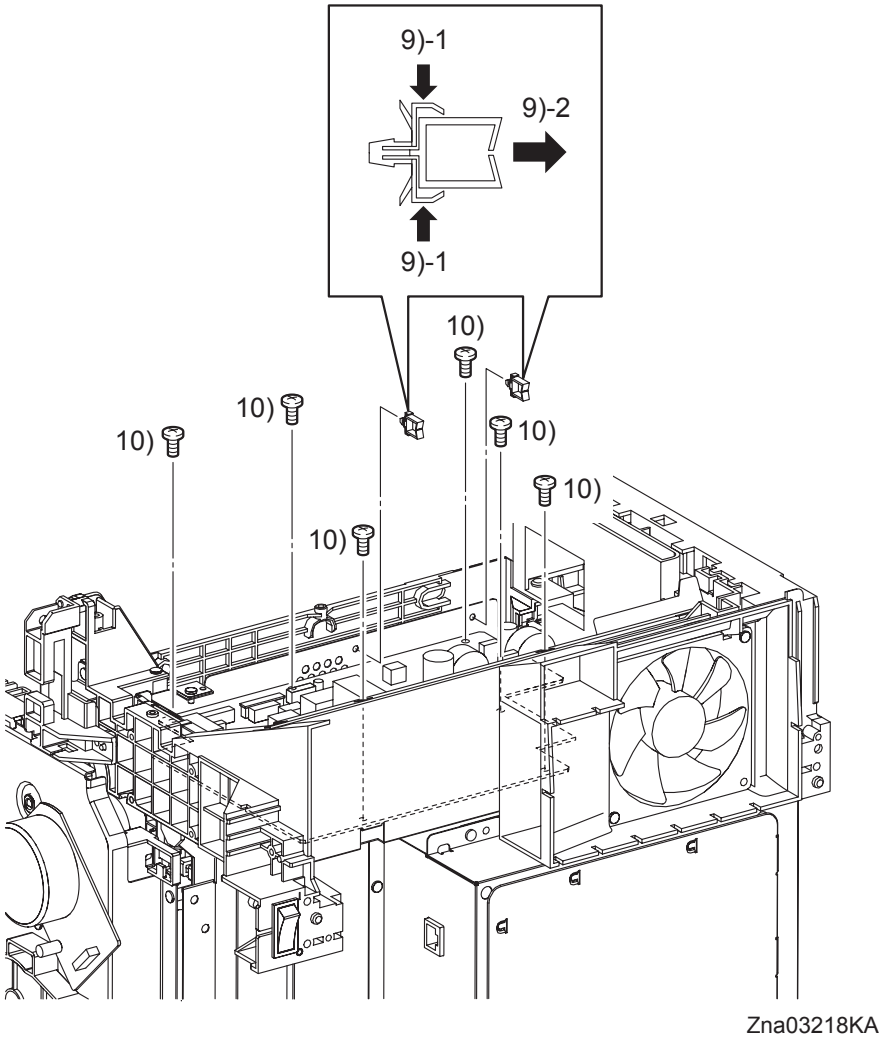
Removal 35 LOW VOLTAGE POWER SUPPLY (PL9.1.4)



9) Remove the two clamps on the SHIELD LVPS.
10) Remove six screws (silver, 6mm) that fix the LOW VOLTAGE POWER SUPPLY to the SHIELD LVPS.

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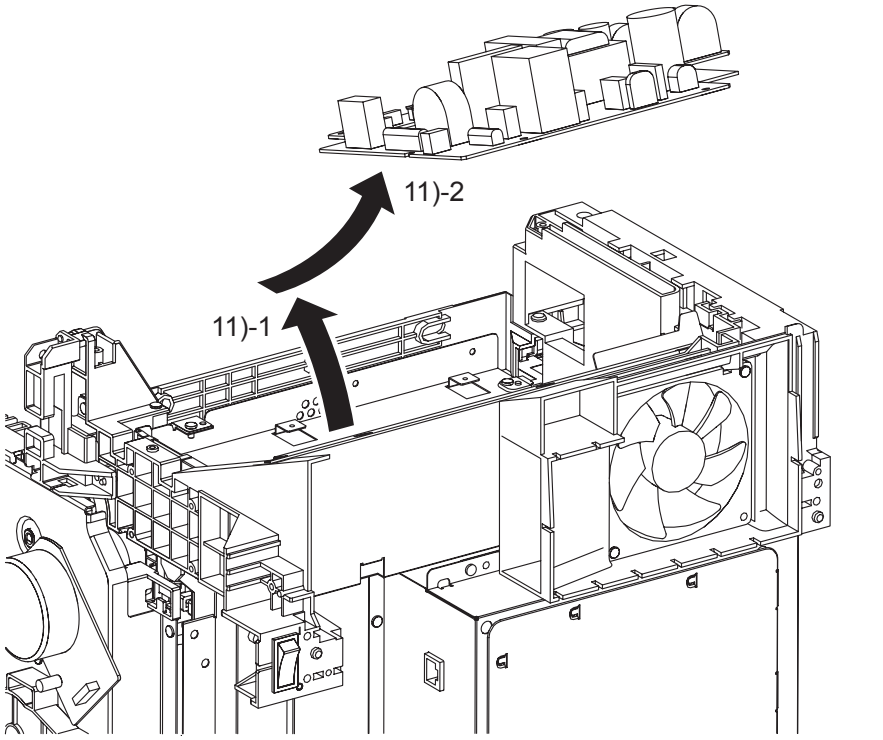
Removal 35 LOW VOLTAGE POWER SUPPLY (PL9.1.4)



11) Shift the LOW VOLTAGE POWER SUPPLY to the left side while holding up the rear side of the LOW VOLTAGE POWER SUPPLY, and then remove the LOW VOLTAGE POWER SUPPLY from the printer.

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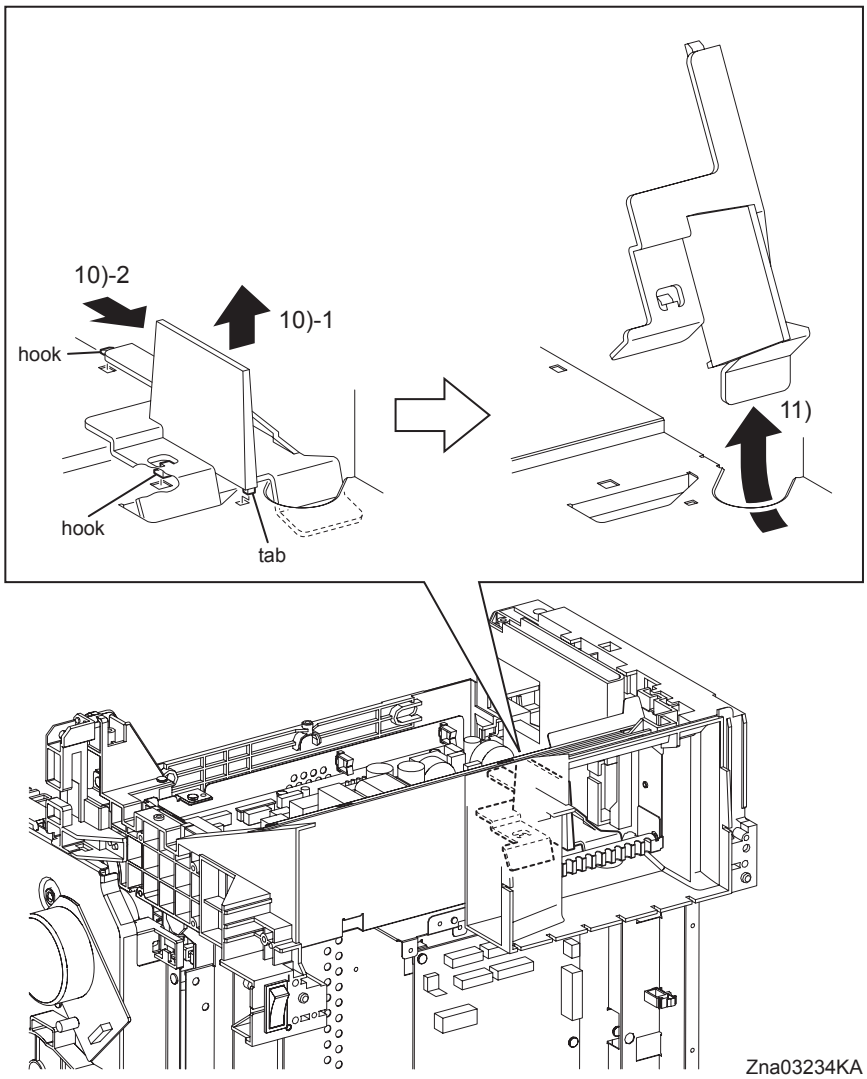
Removal 36 ROS (PL5.1.99)

Steps 1 through 9 are for reference. Before removing this component, check that Steps 1 through 9 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the TOP COVER. (Removal 31)
7) Remove the SHIELD ASSY ESS. (Removal 25)
8) Remove the SHIELD MCU. (Removal 27)
9) Remove the FAN. (Removal 32)



10) Raise the DUCT AIRFLOW (PL9.1.41) slightly until its tab is released from the hole on the SHIELD LVPS(PL9.1.9), and then move the DUCT AIRFLOW rearward until its two hooks are released.
11) Remove the DUCT AIRFLOW from the printer.

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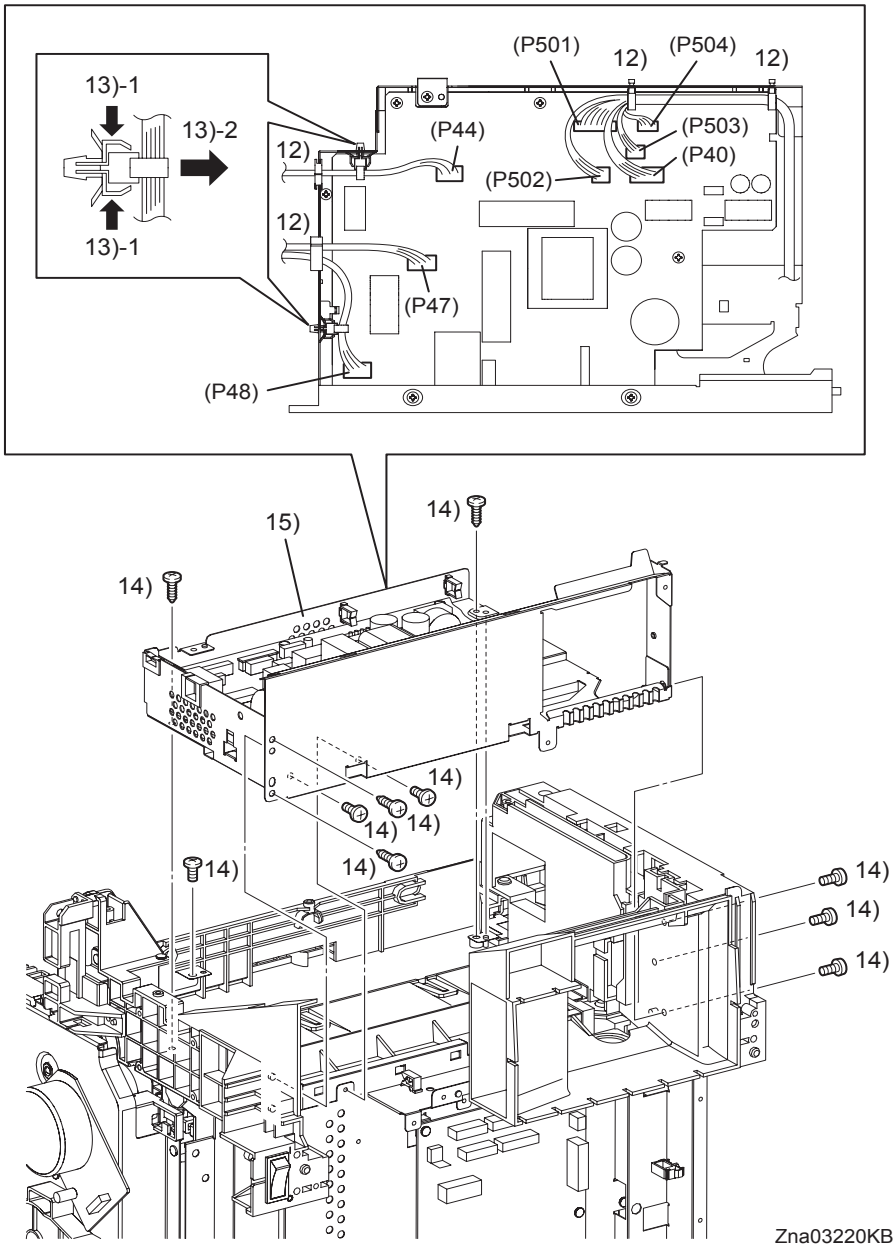
Removal 36 ROS (PL5.1.99)



12) Disengage all the connectors of the LOW VOLTAGE POWER SUPPLY (PL9.1.4), and then release the harness from the clamps.

13) From the SHIELD LVPS, remove the clamp that fixes the harness of the INTERLOCK SWITCH (PL9.1.3) and the clamp that fixes the harness of the HARN ASSY AC IN (PL9.1.16).

14) Remove the six screws (silver, 6mm), the two screws (silver, tap, 8mm) and the two screws (silver, tap, 10mm) that fix the LVPS ASSY (PL9.1.40) to the printer.

15) Release the three holes of the SHIELD LVPS from the bosses of the printer, lift the LVPS ASSY up and remove it.

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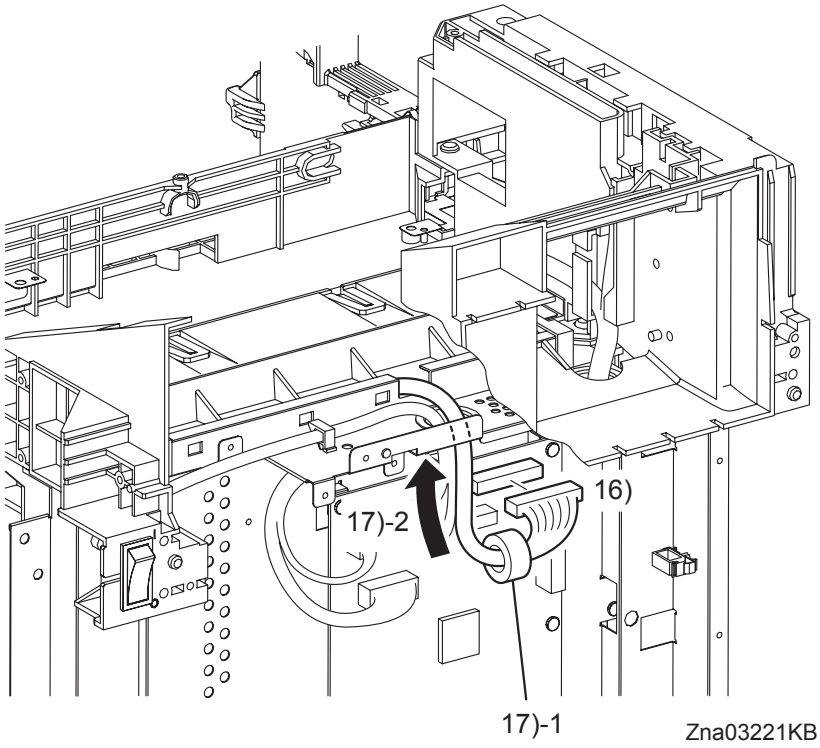
Removal 36 ROS (PL5.1.99)



16) Disengage the connector (P/J12) of the ROS (PL5.1.2) from the MACHINE CONTROL UNIT (PL9.1.20).
17) Remove the CORE (PL5.1.22) from the harness of the ROS, and then pull out the connector through the hole on the SHIELD REAR (PL9.1.11).

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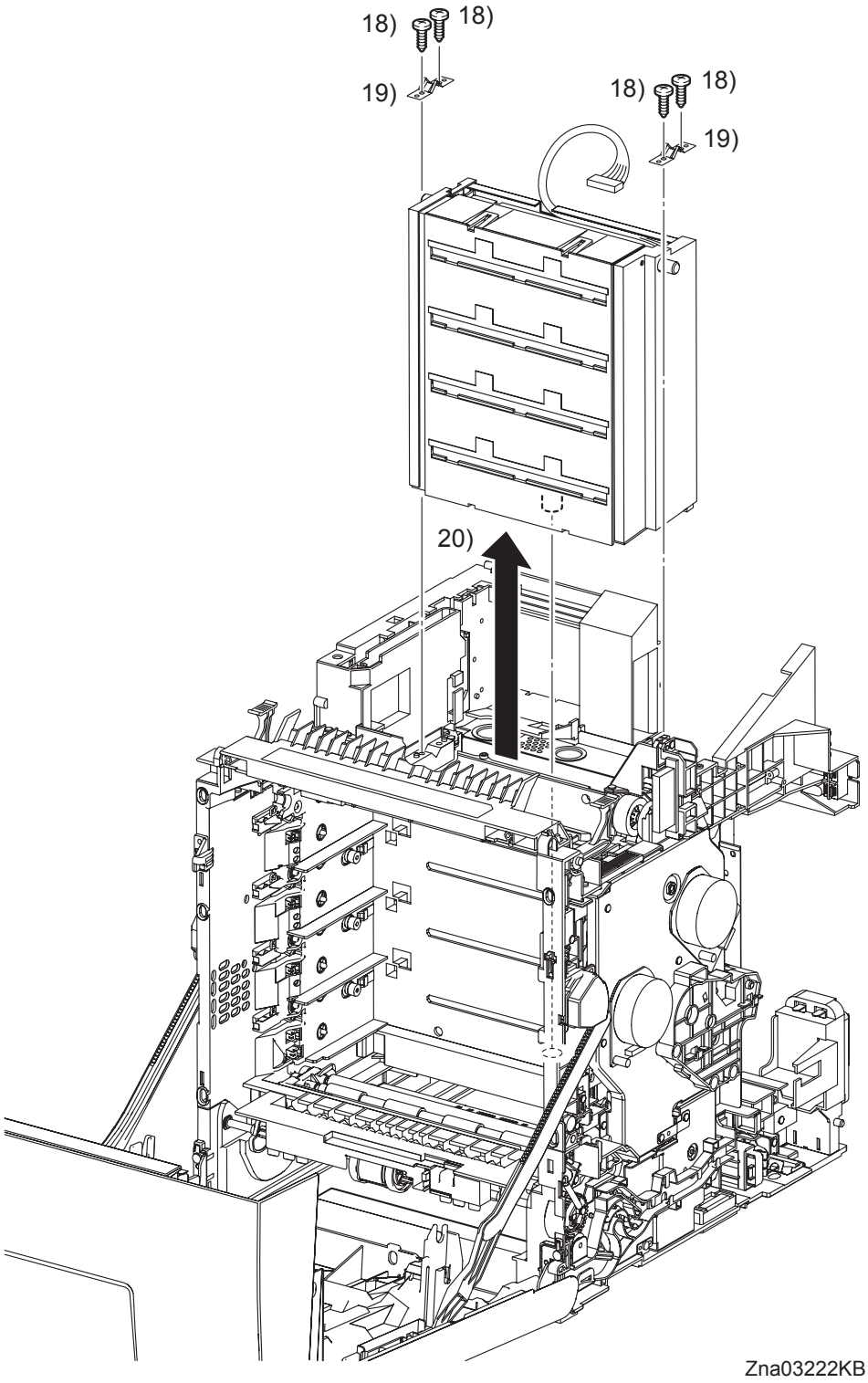
Removal 36 ROS (PL5.1.99)

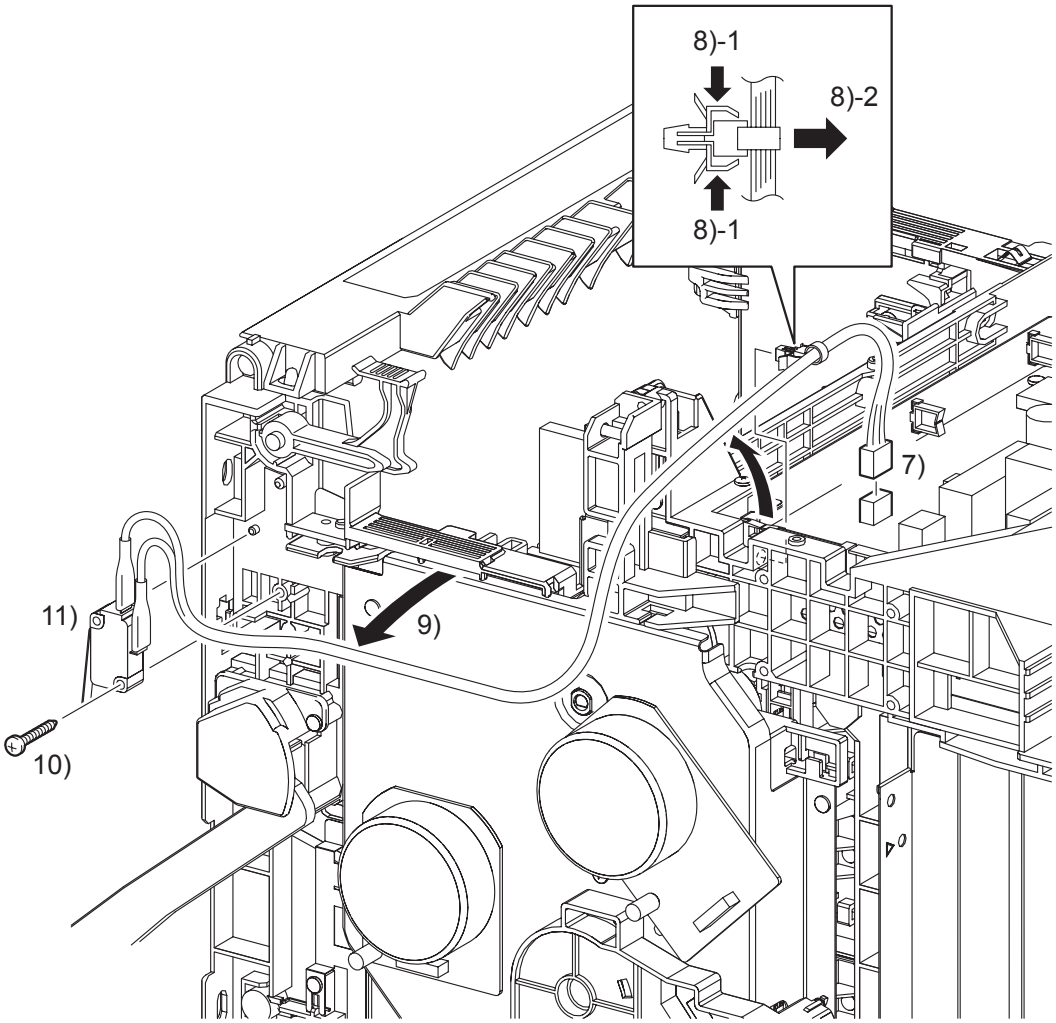


18) Remove the four screws (silver, tap, 10mm) that fix the two SPRING ROSs (PL5.1.1) to the printer at the left and right sides.
19) Remove the left and right SPRING ROSs from the printer.
20) Remove the ROS from the printer by pulling it up slowly.

Removal 37 INTERLOCK SWITCH (PL9.1.3)

Steps 1 through 6 are for reference. Before removing this component, check that Steps 1 through 6 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the TOP COVER. (Removal 31)



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7) Disengage the connector (P/J44) of the INTERLOCK SWITCH on the LOW VOLTAGE POWER SUPPLY (PL9.1.4).
8) Remove the clamp on the SHIELD LVPS (PL9.1.9) that fix the harness of the INTERLOCK SWITCH.
9) Remove the harness of the INTERLOCK SWITCH from the duct of the printer.
10) Remove the one screw (silver, tap, 16mm) that fixes the INTERLOCK SWITCH to the printer.
11) Remove the INTERLOCK SWITCH.

Go to the next removal step:

Removal 38 PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2)

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Removal 38 PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2)

Steps 1 through 8 are for reference. Before removing this component, check that Steps 1 through 8 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the TOP COVER. (Removal 31)

NOTE

When performing the step described below, it is not necessary to disengage the connector of the INTERLOCK SWITCH.

7) Remove the INTERLOCK SWITCH. (Removal 37)

NOTE

When performing the step described below, it is not necessary to disengage the connector of the DRIVE ASSY K.

8) Remove the DRIVE ASSY K. (Removal 28)

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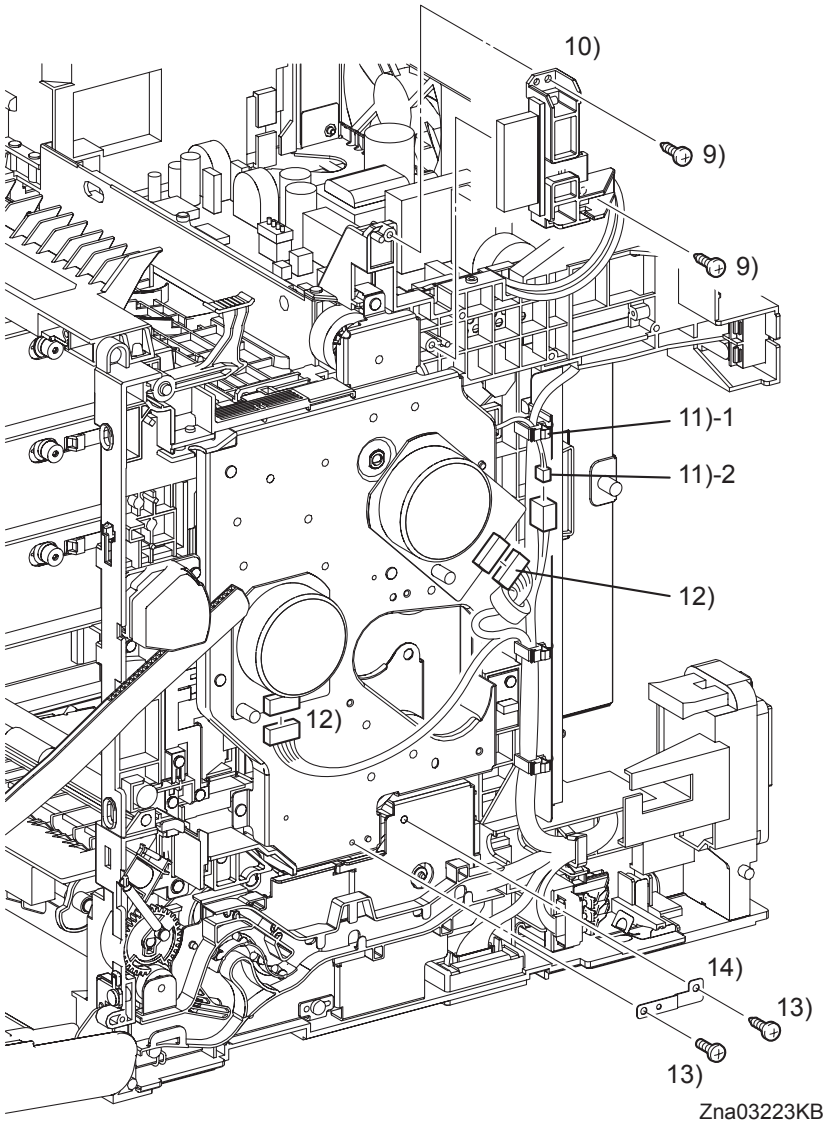
Removal 38 PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2)



9) Remove two screws (silver, tap, 10mm) that fix the BRACKET FUSER (PL6.1.12) to the printer.

NOTE

When performing the step described below, take care not to move the BRACKET FUSER from the printer too far because they are connected with the harness.

10) Remove the BRACKET FUSER from the printer.

NOTE

When performing the step below, leave the junction connector on the printer side cable.

11) Release the harness of the Exit Clutch in the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2) from the clamp, and then disengage the connector (P/J235).
12) Disengage the Main Motor connector (P/J222) and the Sub Motor connector (P/J221).
13) Remove the one screw (silver, 6mm) and the one screw (silver, tap, 10mm) that fix the PLATE EARTH DRV MP (PL8.1.11) to the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE and FEED DRIVE ASSEMBLY (PL8.1.7).
14) Remove the PLATE EARTH DRV MP from the printer.

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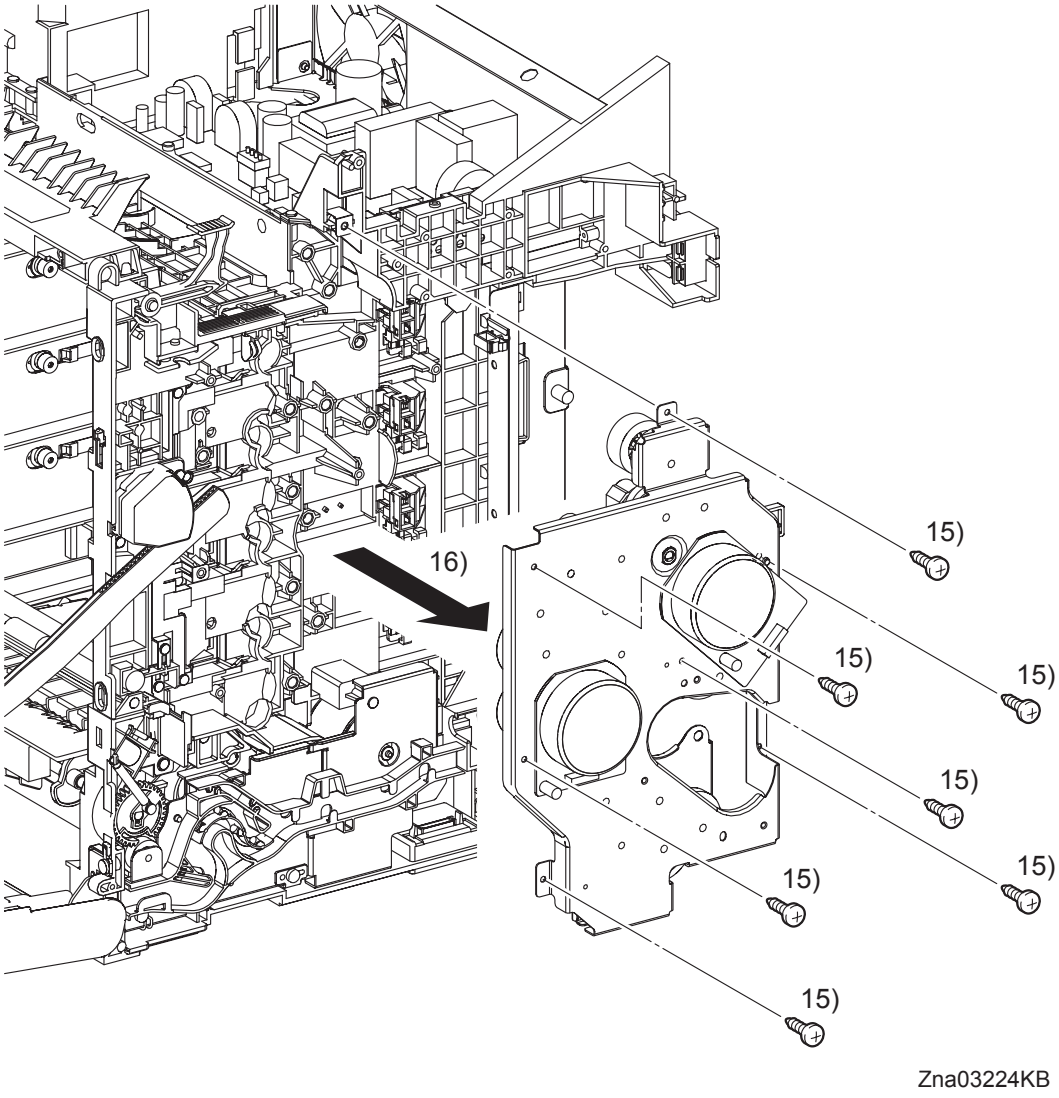
Removal 38 PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2)



15) Remove the seven screws (silver, tap, 10mm) that fix the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE to the printer.
16) Remove the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE from the printer.

Go to the next removal step:
Removal 39 TONER CARTRIDGE SENSOR ASSEMBLY (K), (C), (M), (Y) (PL5.1.4)

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Removal 39 TONER CARTRIDGE SENSOR ASSEMBLY (K), (C), (M), (Y) (PL5.1.4)

NOTE

Described below is the removal procedure common among the TONER CARTRIDGE SENSOR ASSEMBLYs (C), (M), (Y), and (K).

Steps 1 through 9 are for reference. Before removing this component, check that Steps 1 through 9 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the TOP COVER. (Removal 31)
7) Remove the INTERLOCK SWITCH. (Removal 37)
8) Remove the DRIVE ASSY K. (Removal 28)
9) Remove the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE. (Removal 38)

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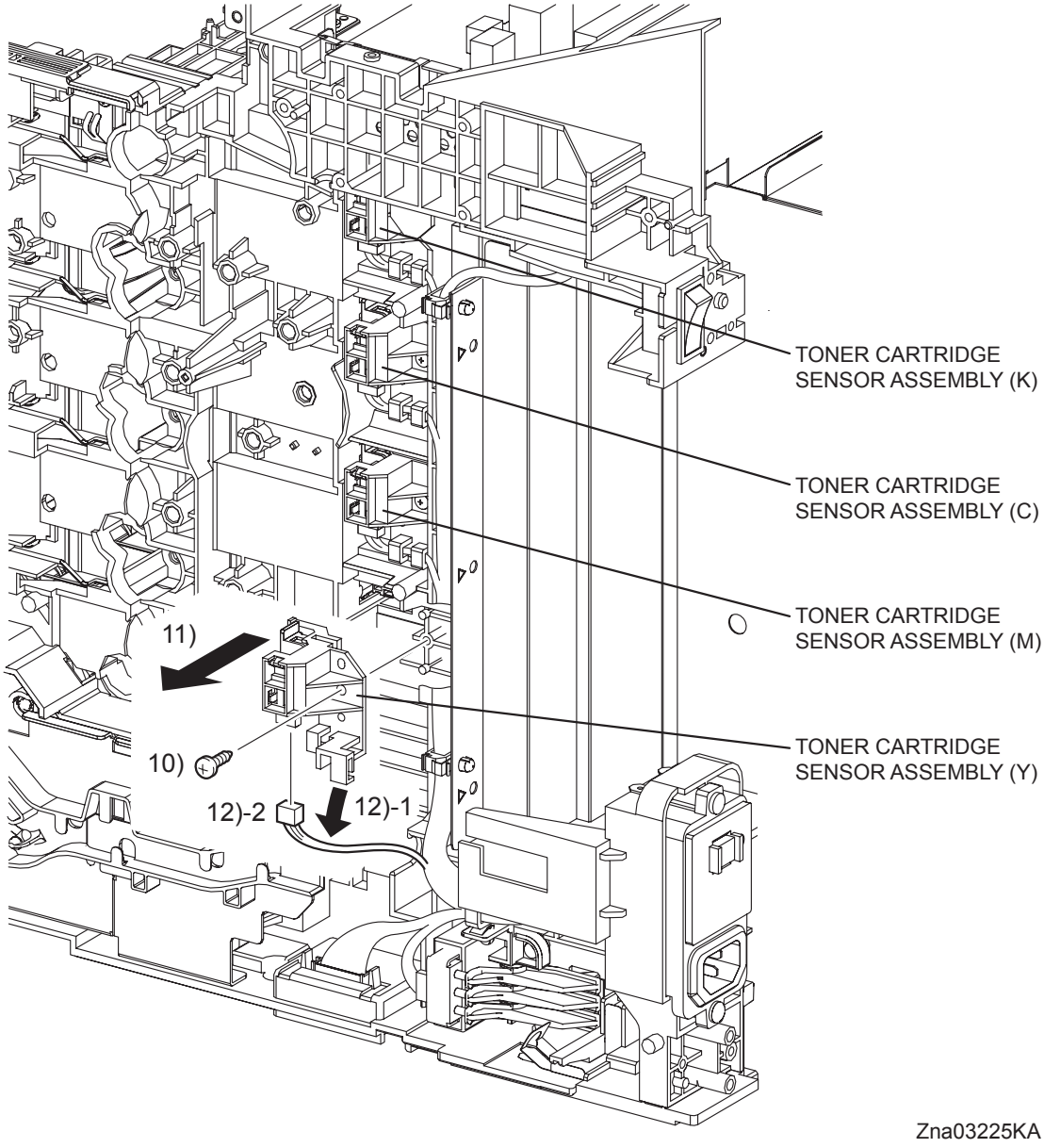
Removal 39 TONER CARTRIDGE SENSOR ASSEMBLY (K), (C), (M), (Y) (PL5.1.4)

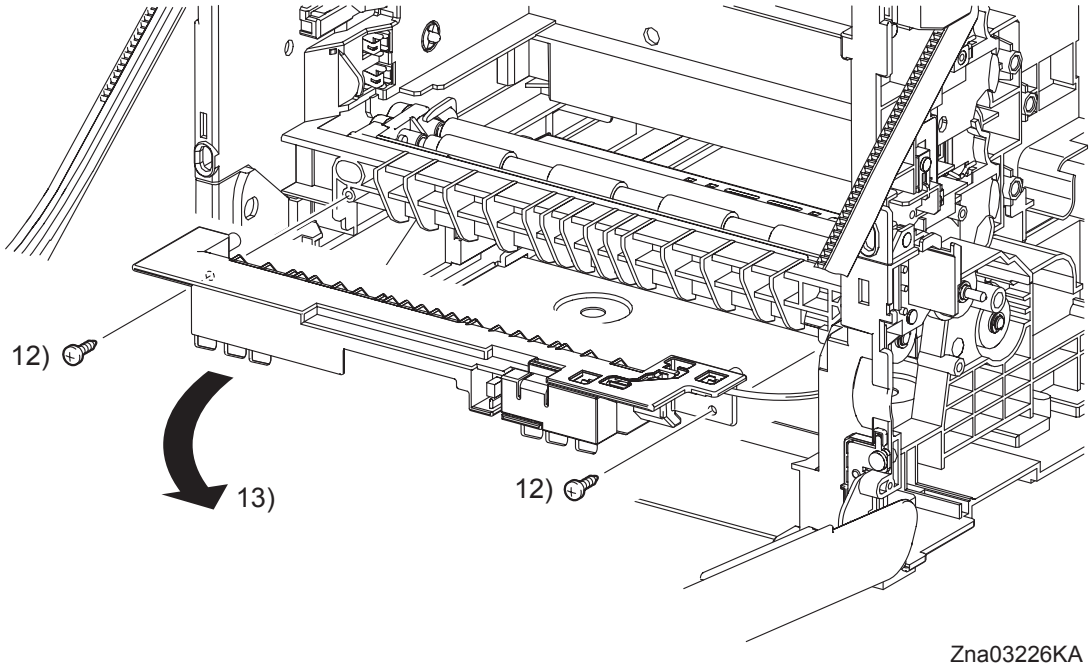


10) Remove the one screw (silver, tap, 10mm) that fixes the TONER CARTRIDGE SENSOR ASSEMBLY (PL5.1.4) to the printer.
11) Remove the TONER CARTRIDGE SENSOR ASSEMBLY from the printer.
12) Release the harness from the hook of the TONER CARTRIDGE SENSOR ASSEMBLY, and then disengage the connector.

Removal 40 INTEGRATED FEEDER ASSEMBLY (PL3.2.99)

Steps 1 through 11 are for reference. Before removing this component, check that Steps 1 through 11 have been performed.

1) Open the FRONT COVER (PL1.2.1).
2) Remove the FUSER. (Removal 8)
3) Remove the REAR COVER. (Removal 10)
4) Remove the RIGHT COVER. (Removal 11)
5) Remove the LEFT COVER. (Removal 20)
6) Remove the TOP COVER. (Removal 31)
7) Remove the INTERLOCK SWITCH. (Removal 37)
8) Remove the DRIVE ASSY K. (Removal 28)
9) Remove the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE. (Removal 38)
10) Remove the FEED DRIVE ASSEMBLY. (Removal 17)
11) Remove the ROLL ASSY MSI. (Removal 16)



NOTE When performing the step described below, it is not necessary to remove the SENSOR PHOTO (PL3.1.15) and COVER SNR (PL3.1.16).

12) Remove two screws (silver, tap, 10mm) that fix the CHUTE MSI (PL3.1.14) to the printer.

NOTE When performing the step described below, take care not to move the CHUTE MSI from the printer too far because they are connected with the harness.

13) Remove the CHUTE MSI from the printer.

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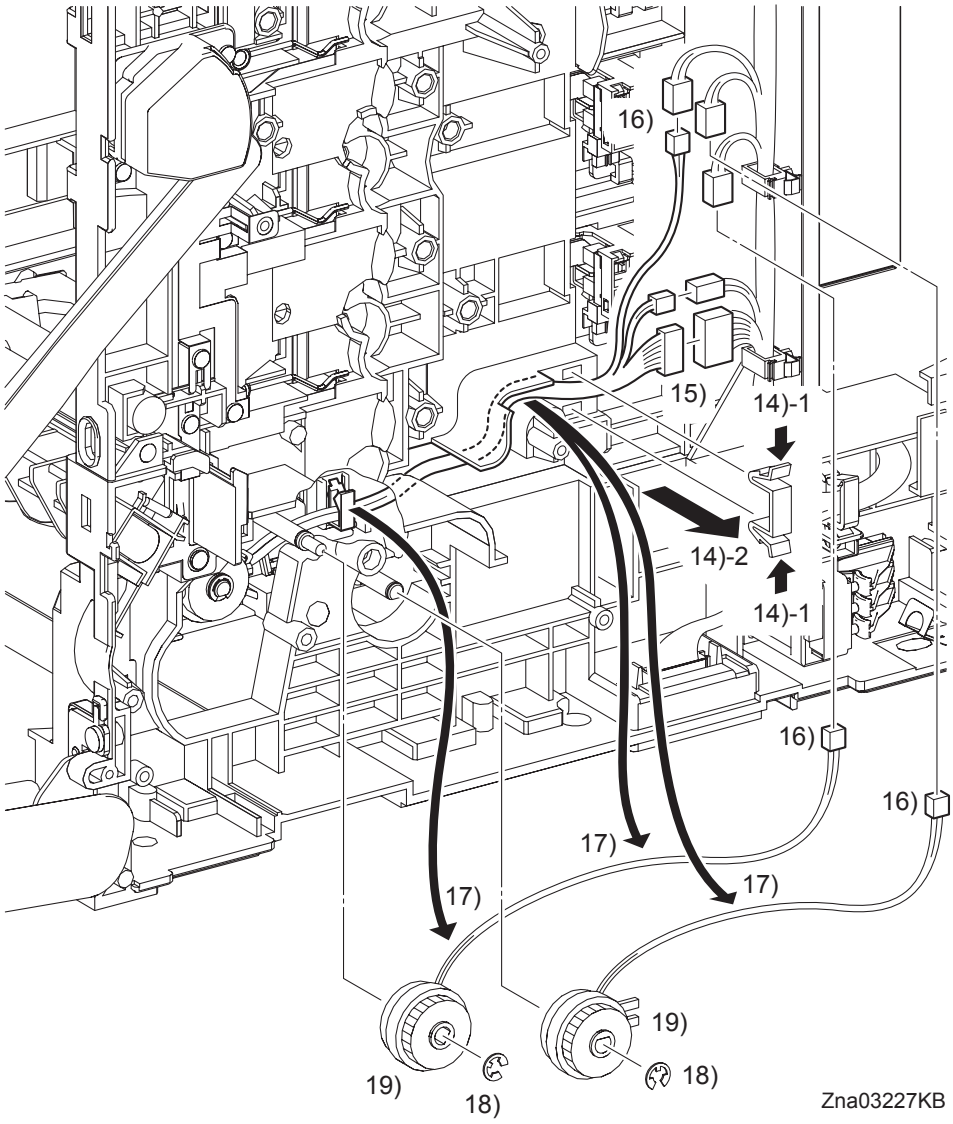
Removal 40 INTEGRATED FEEDER ASSEMBLY (PL3.2.99)



14) Release the two hooks of the CLAMP (PL3.1.20), remove the CLAMP from the printer.

NOTE

When performing the step below, leave the junction connector on the printer side cable.

15) Disengage the connectors (P/J292 and P/J301) of the INTEGRATED FEEDER ASSEMBLY (PL3.2.1).

16) Disengage the connector (P/J231) of the CLUTCH ASSY PH REGI (PL3.2.23), the connector (P/J233) of the CLUTCH ASSY PH FEED (PL3.2.24), and the connector (P/J232) of the CLUTCH ASSY PH TURN (PL.3.2.25).

17) Release the each harness from the clamp on the INTEGRATED FEEDER ASSEMBLY and the hook of the printer.

18) Remove the e-rings that fix the CLUTCH ASSY PH REGI and the CLUTCH ASSY PH FEED to the INTEGRATED FEEDER ASSEMBLY.

19) Remove the CLUTCH ASSY PH REGI and the CLUTCH ASSY PH FEED from the INTEGRATED FEEDER ASSEMBLY.

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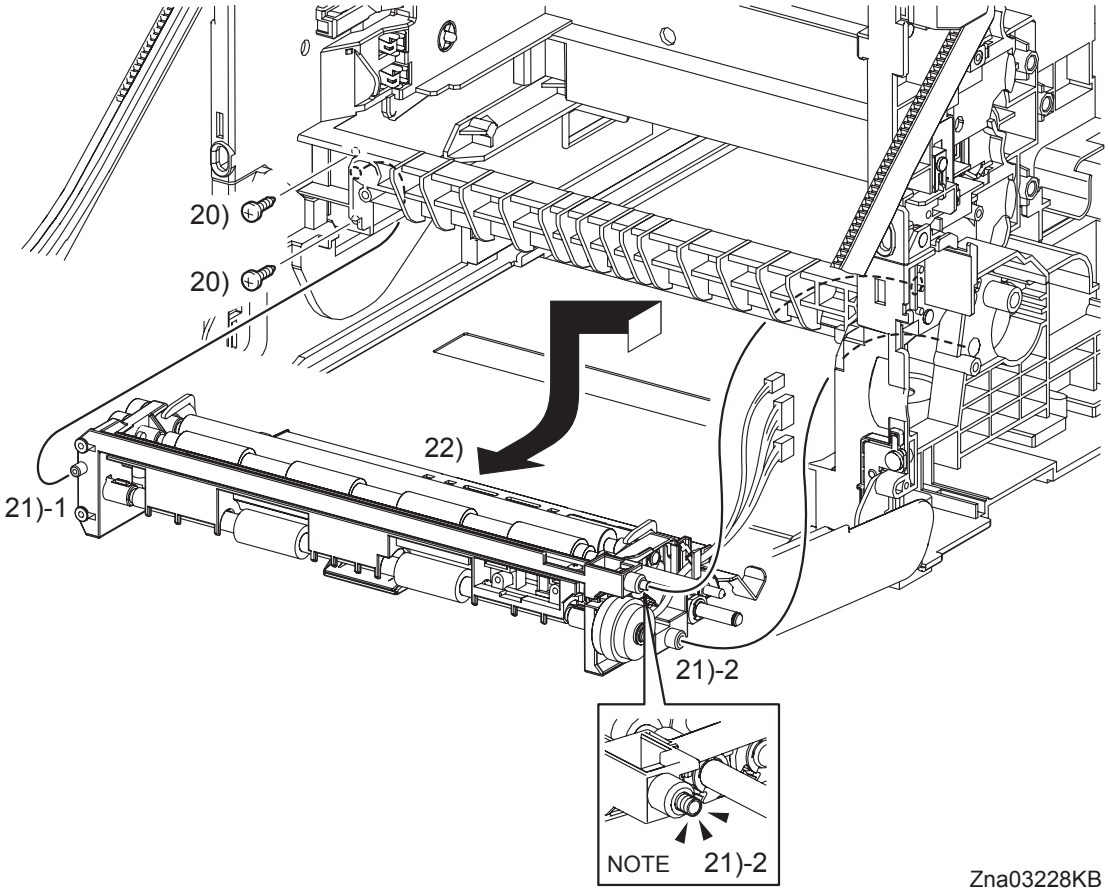
Removal 40 INTEGRATED FEEDER ASSEMBLY (PL3.2.99)



20) Remove two screws (silver, tap, 10mm) that fix the INTEGRATED FEEDER ASSEMBLY to the printer.

NOTE

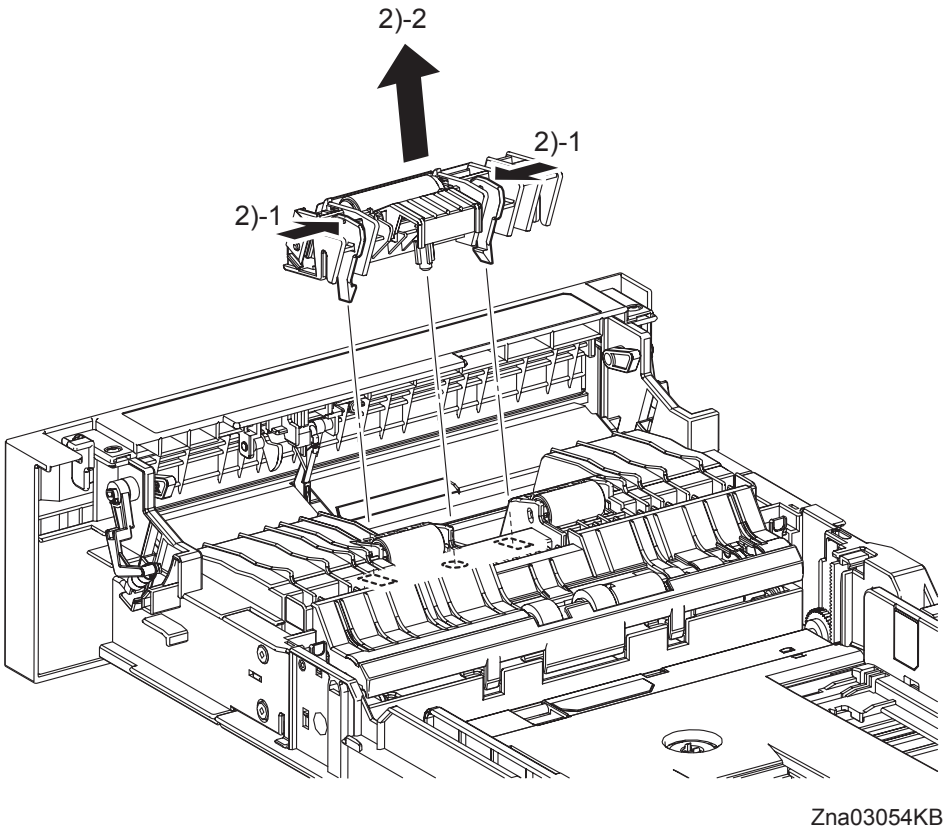
When performing the step described below, take care not to drop and lose the SPRING EARTH on the right side of the INTEGRATED FEEDER ASSEMBLY.

21) Release the left side boss on the INTEGRATED FEEDER ASSEMBLY from the hole on the printer. Move the INTEGRATED FEEDER ASSEMBLY slightly backward to the left and release the two bosses (One is provided with the SPRING EARTH.) on the right side from the hole on the printer.

22) Remove the INTEGRATED FEEDER ASSEMBLY from the printer by pulling out its right pivot and clutch from the hole on the printer.

Removal 41 MPF SEPARATOR ROLLER ASSEMBLY (PL2.1.99)

1) Remove the 250 SHEET PAPER TRAY (PL2.1.1) from the printer.



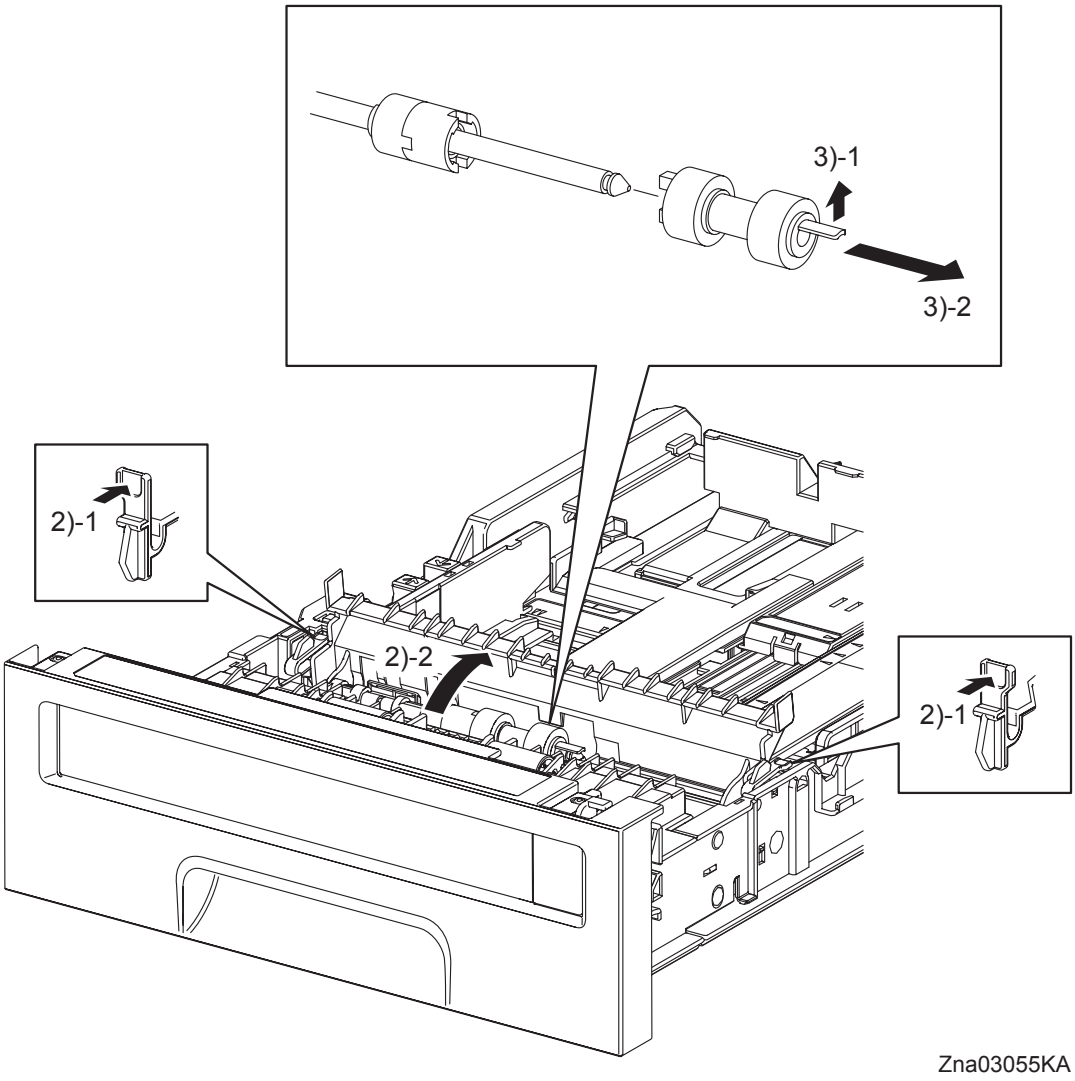
2) Release the two hooks of the MPF SEPARATOR ROLLER ASSEMBLY (PL2.1.3) and then remove the MPF SEPARATOR ROLLER ASSEMBLY from the 250 SHEET PAPER TRAY.

Removal 42 KIT SEPARATOR ROLLER & FEED ROLLER (PL2.2.99)

NOTE

When replacing the SEPARATOR ROLLER or the FEED ROLLER replace the SEPARATOR ROLLER and the two FEED ROLLERs at the same time.

1) Remove the 250 SHEET PAPER TRAY (PL2.1.1) from the printer.



2) Release the left and right hooks of the CVR SPRTR CST (PL2.2.13), and then open the CVR SPRTR CST.
3) Release the hook of the SEPARATOR ROLLER (PL2.2.17), and then remove the SEPARATOR ROLLER from the SHAFT SEPARATOR (PL2.2.15).

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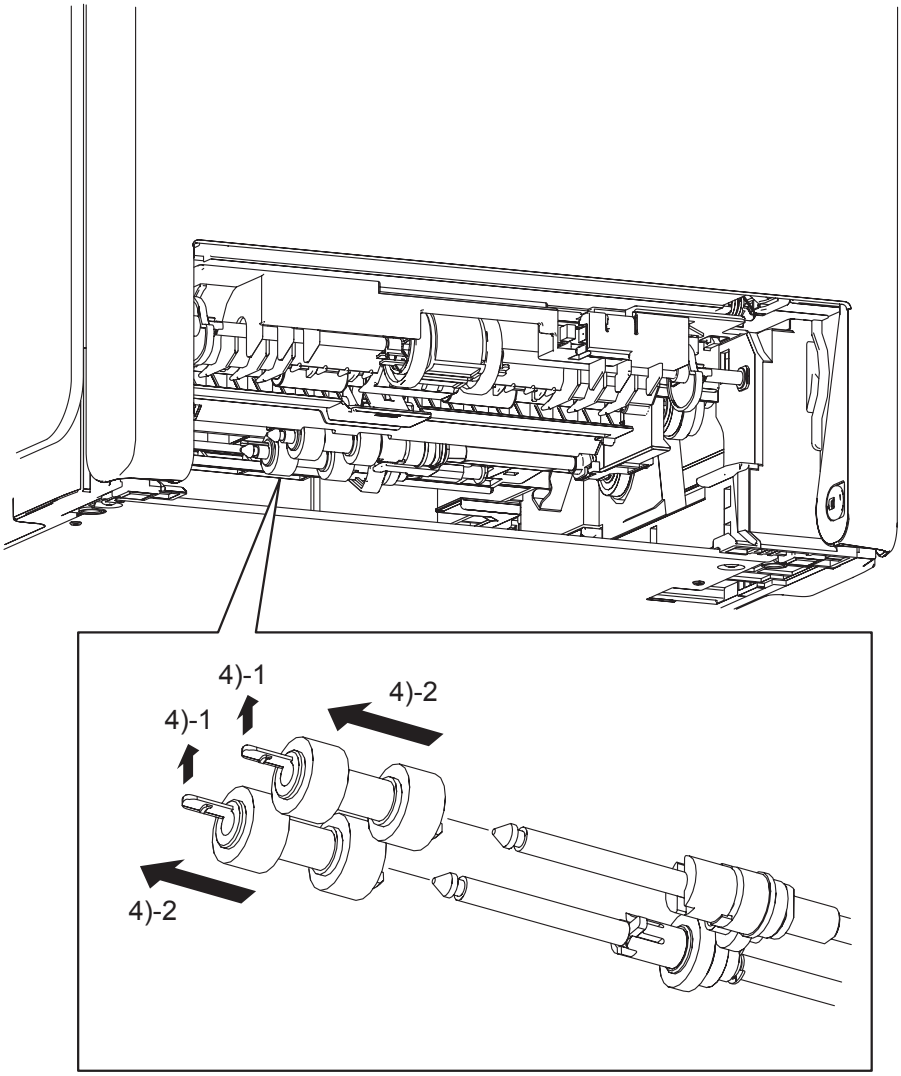
Removal 42 KIT SEPARATOR ROLLER & FEED ROLLER (PL2.2.99)



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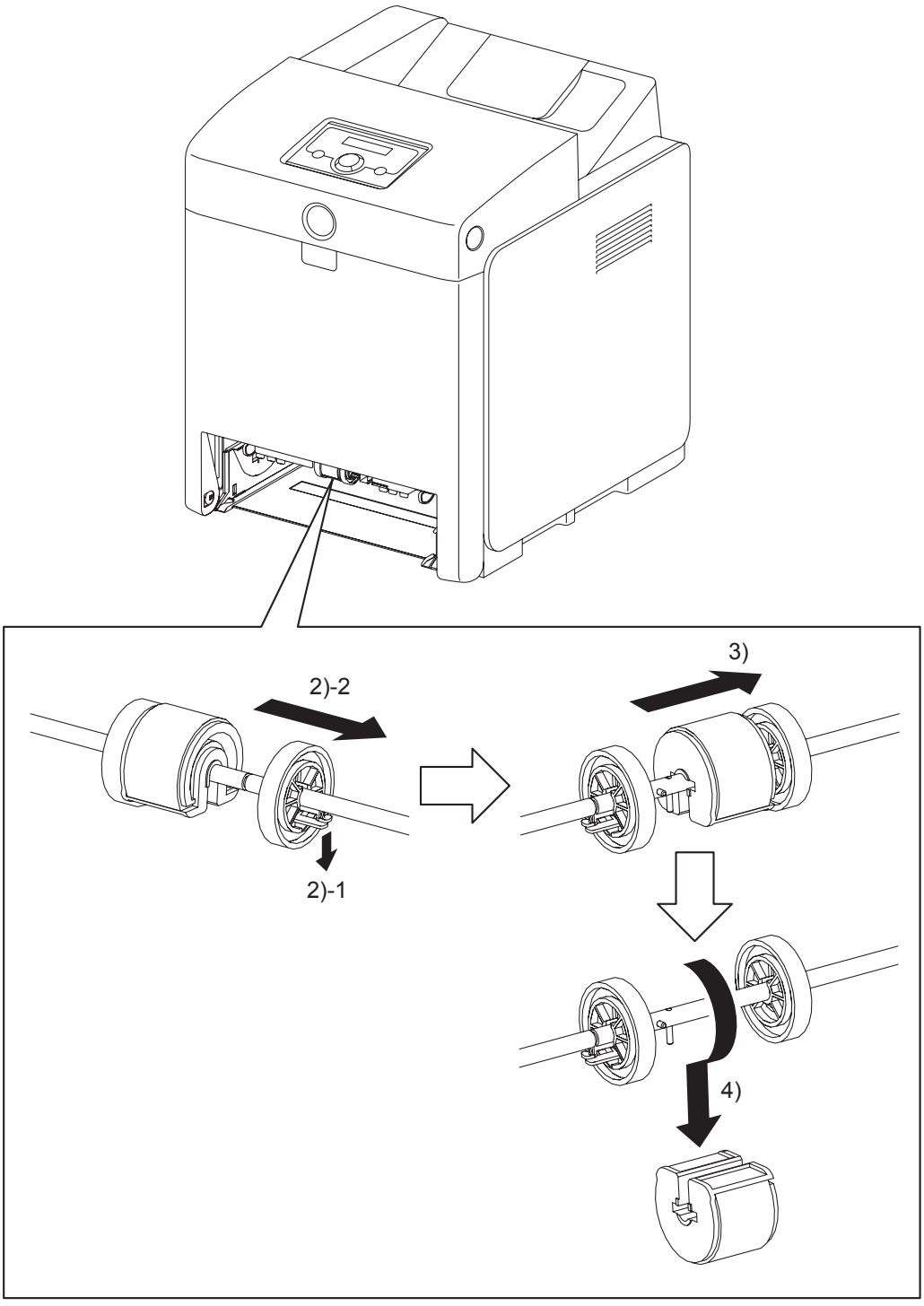
4) Release the hooks of the FEED ROLLERs (PL3.2.53) and remove the FEED ROLLERs from the shafts.

Removal 43 MPF ROLLER (PL3.1.99)

1) Remove the 250 SHEET PAPER TRAY (PL2.1.1) from the printer.



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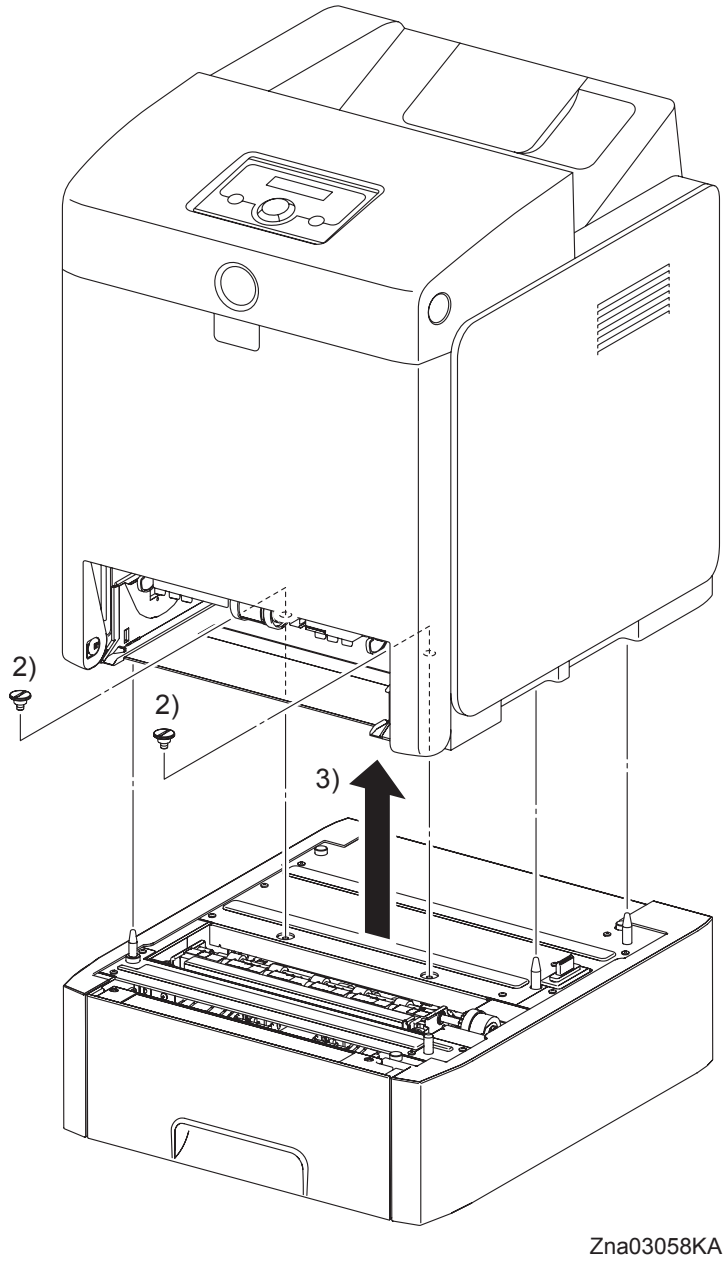
2) Release the hook of the ROLL CORE MSI (PL3.1.9) on the right of the MPF ROLLER (PL 3.2.10), and slide the ROLL CORE MSI to the right.
3) Release the groove on the MPF ROLLER from the vertical pin mounted on the SHAFT MSI (PL3.1.12) by sliding the MPF ROLLER to the right.
4) Remove the MPF ROLLER from the SHAFT MSI by rotating the MPF ROLLER 180 degrees.

Removal 44 550 SHEET FEEDER ASSEMBLY (PL12.1.1)

1) Remove the 250 SHEET PAPER TRAY (PL2.1.1) of the printer.



2) Remove two FEEDER SCREWS (PL12.1.3) that fix the 550 SHEET FEEDER ASSEMBLY (PL12.1.1) to the printer.

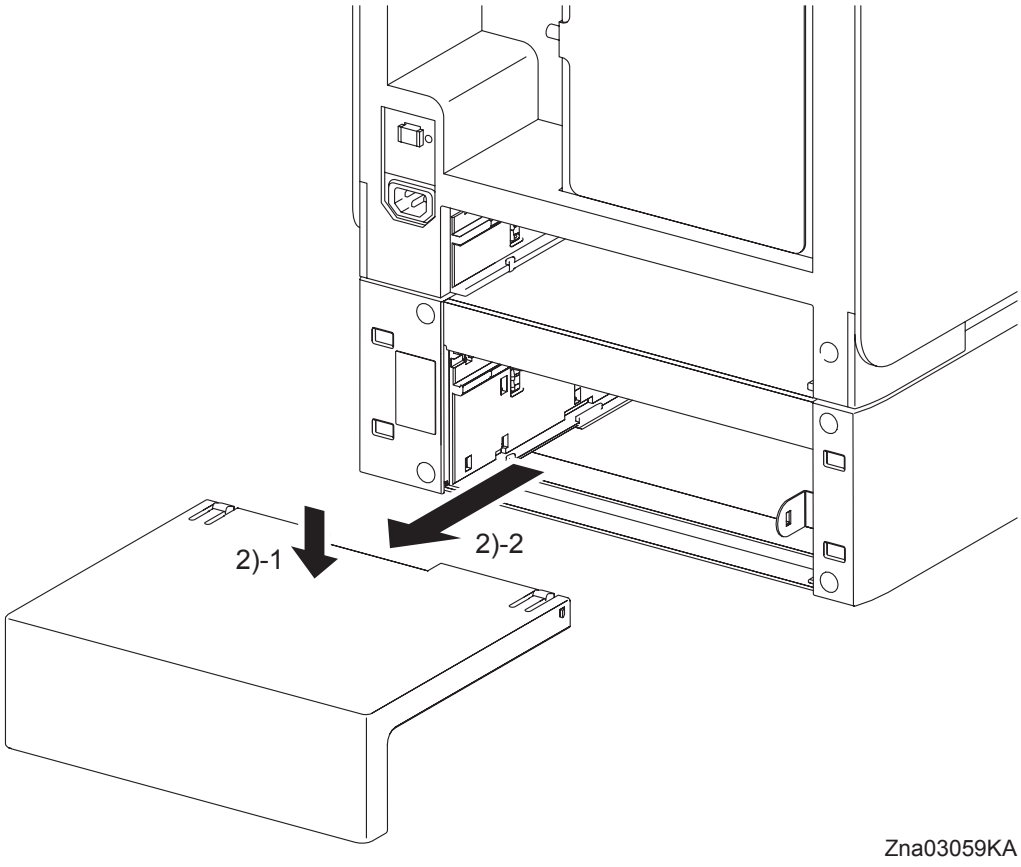
NOTE

The printer must be lifted by two people.

3) Lift up the printer to separate it from the 550 SHEET FEEDER ASSEMBLY.

Removal 45 550 TRAY REAR COVER (PL12.1.4)

1) Pull the 550 TRAY REAR COVER backward until it stops



2) Release the two hooks by depressing the center of the 550 TRAY REAR COVER, and then remove the 550 TRAY REAR COVER from the 550 SHEET FEEDER ASSEMBLY (PL12.1.1).

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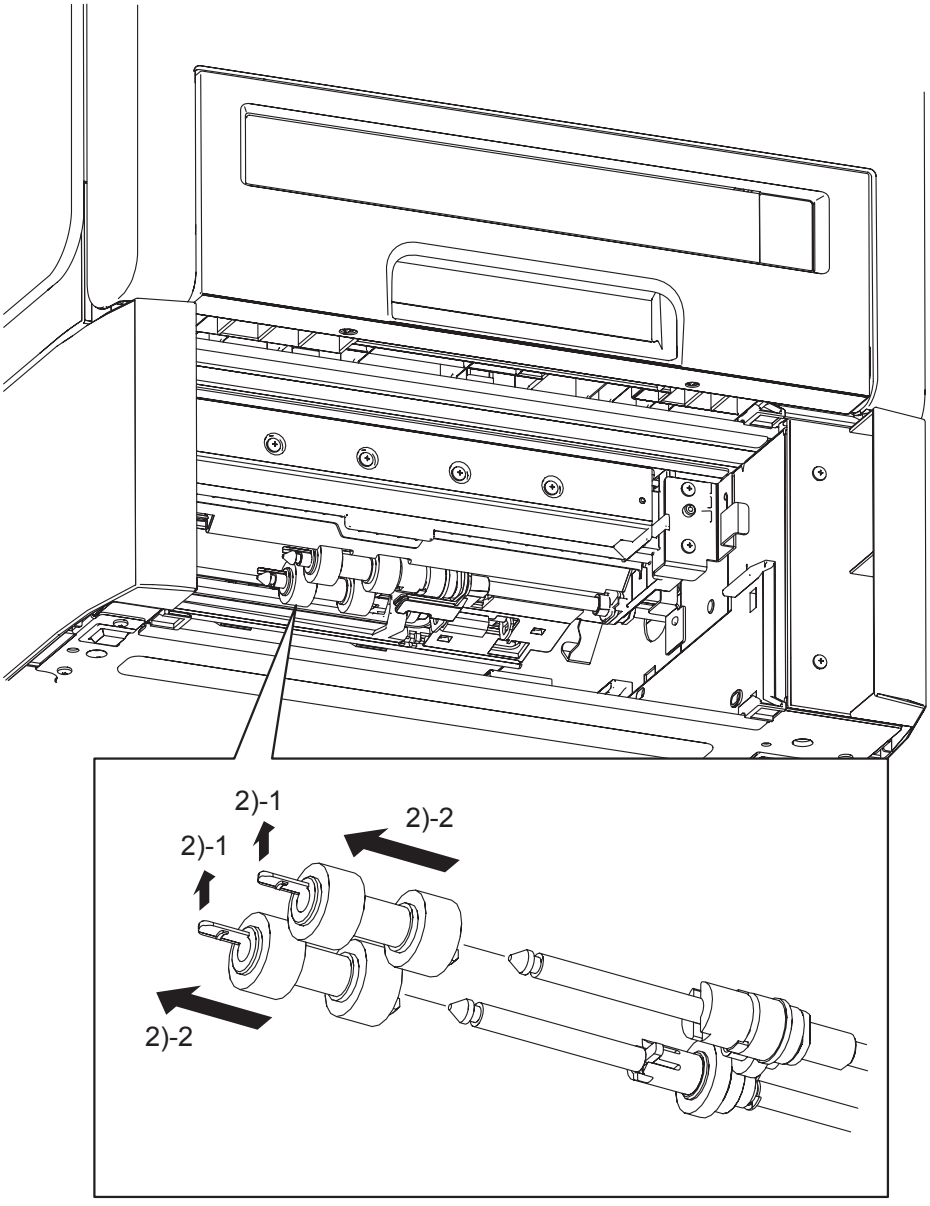
Removal 46 550 TRAY FEED ROLLER (PL12.3.29) & 550 TRAY SEPARATOR ROLLER (PL12.5.17)

NOTE

When replacing the 550 TRAY SEPARATOR ROLLER or the 550 TRAY FEED ROLLER replace the 550 TRAY SEPARATOR ROLLER and the two 550 TRAY FEED ROLLERs at the same time.

1) Remove the 550 SHEET PAPER TRAY (PL12.4.1) from the 550 SHEET FEEDER ASSEMBLY (PL12.1.1).



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2) Release the hooks of the 550 TRAY FEED ROLLERs (PL12.3.29), and then remove the 550 TRAY FEED ROLLERs from the shafts.

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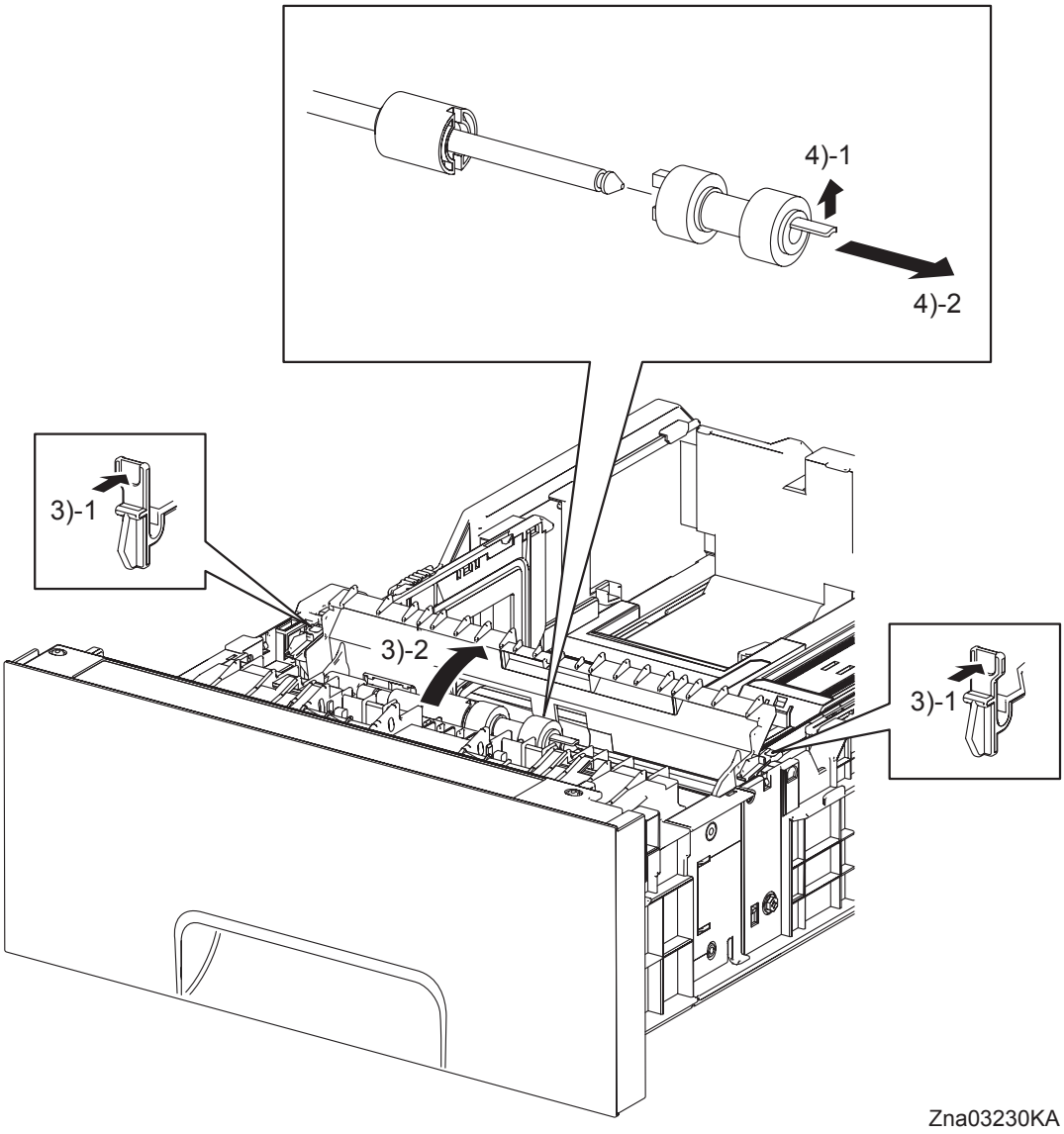
Removal 46 550 TRAY FEED ROLLER (PL12.3.29) & 550 TRAY SEPARATOR ROLLER (PL12.5.17)

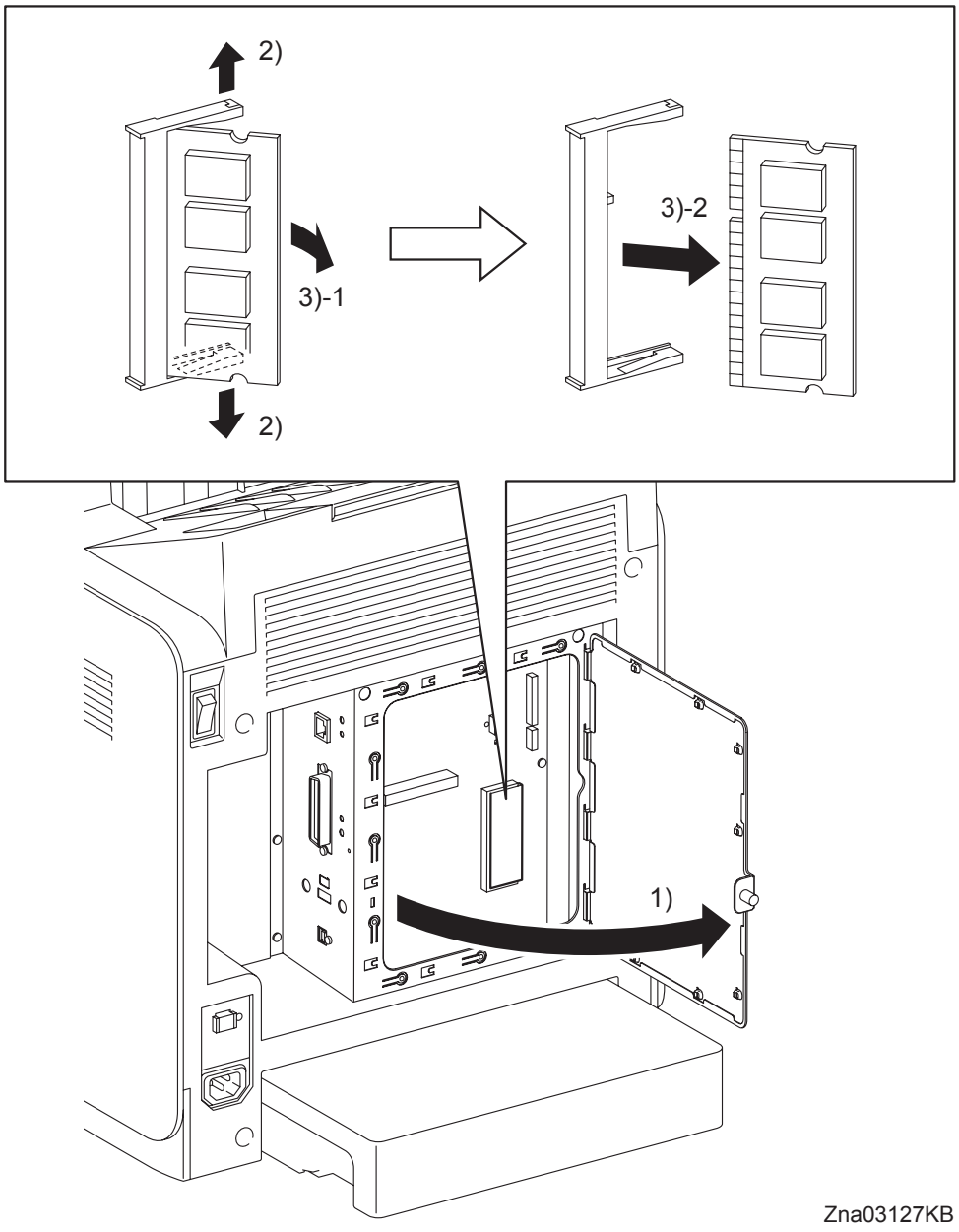


3) Release the left and right hooks of the CVR SPRTR CST (PL12.5.13), and then open the CVR SPRTR CST.
4) Release the hook of the 550 TRAY SEPARATOR ROLLER (PL12.5.17), and then remove the 550 TRAY SEPARATOR ROLLER from the SHAFT RETARD (PL12.5.15).

Removal 47 MEMORY CARD (PL9.1.30)

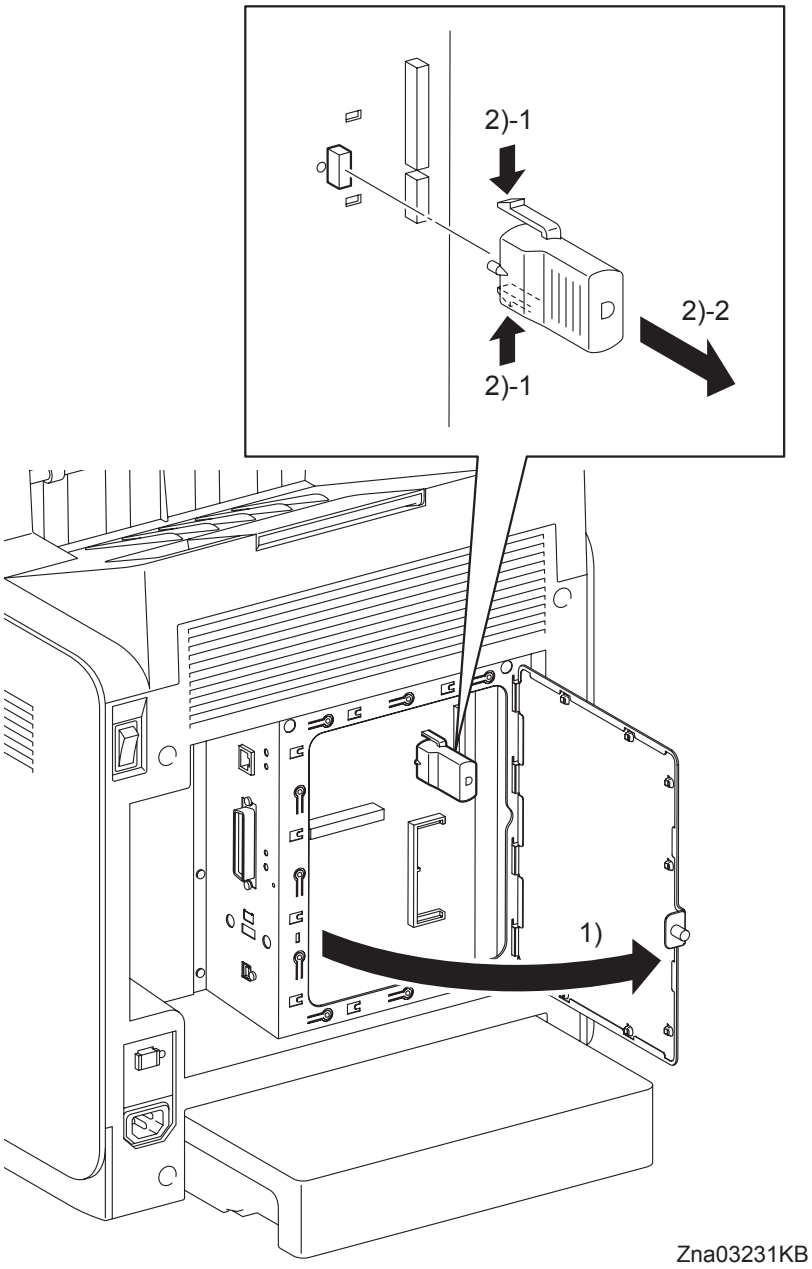
NOTE

Use a wristband to protect the MEMORY CARD from electrostatic damage.



1) Loosen the SCREW KNURLING (PL9.1.44), and then open the SHIELD WINDOW (PL9.1.21).
2) Gently spread open both the tabs on the socket holding the MEMORY CARD (PL9.1.30) until the MEMORY CARD pops up slightly.
3) Remove the MEMORY CARD.

Removal 48 NETWORK PROTOCOL ADAPTER (PL9.1.46)

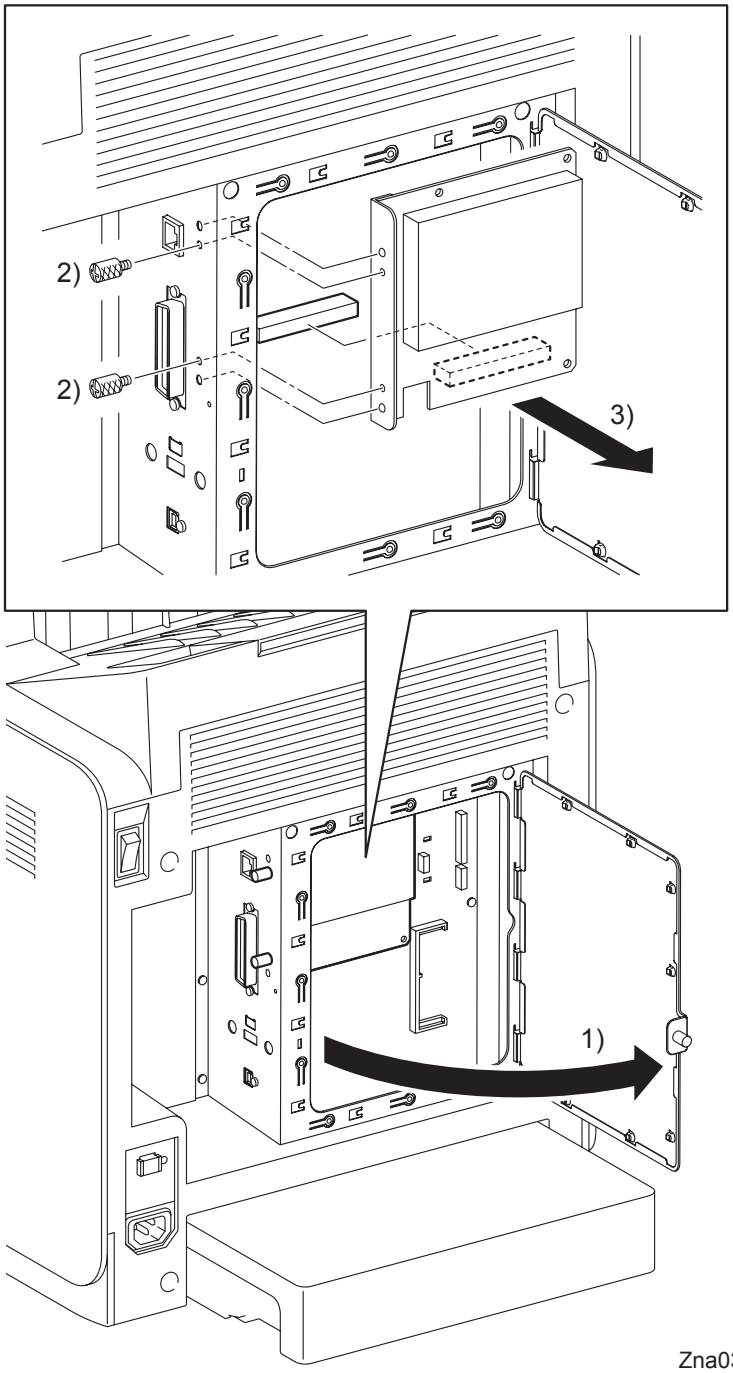


1) Loosen the SCREW KNURLING (PL9.1.44), and then open the SHIELD WINDOW (PL9.1.21).
2) Release the two hooks of the NETWORK PROTOCOL ADAPTER (PL9.1.46) to remove the NETWORK PROTOCOL ADAPTER from the ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27).

Removal 49 HARD DISK (PL9.1.47)

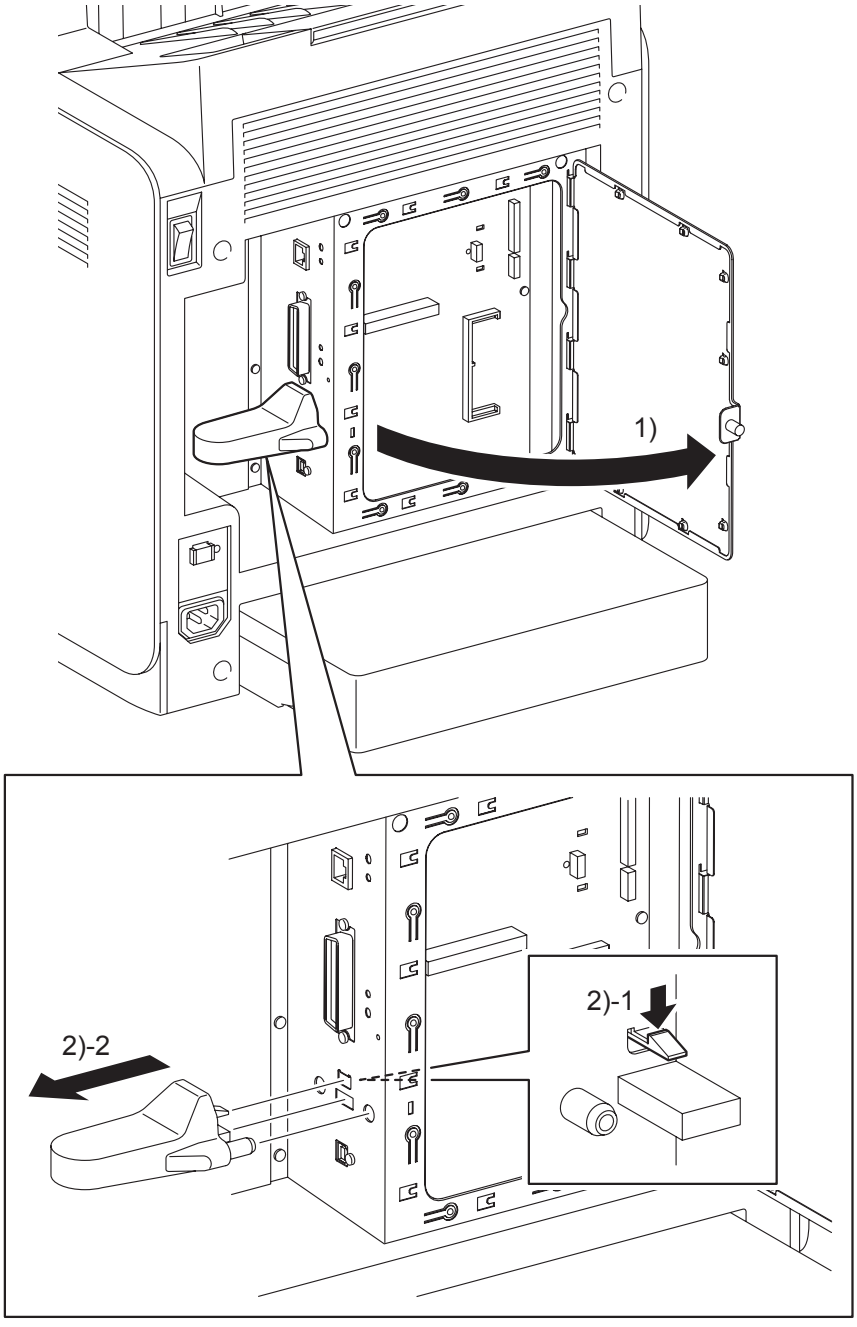
NOTE

Use a wristband to protect the HDD from electrostatic damage.



1) Loosen the SCREW KNURLING (PL9.1.44), and then open the SHIELD WINDOW (PL9.1.21).
2) Remove the two SCREW KNURLINGs (PL9.1.22) that fix the HARD DISK (PL9.1.47) to the printer.
3) Remove the HARD DISK from the ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27).

Removal 50 WIRELESS PRINTER ADAPTER (PL9.1.32)



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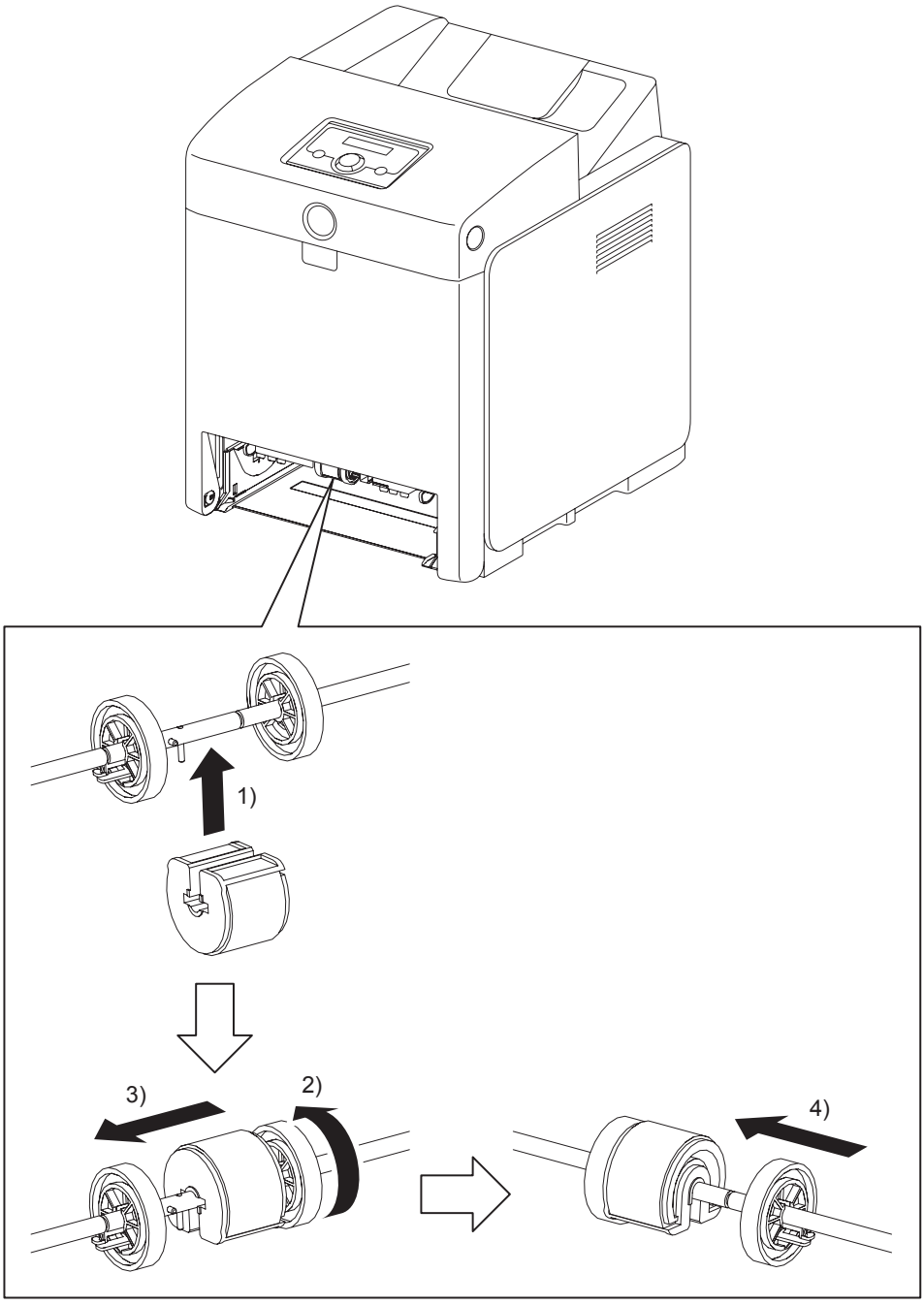
1) Loosen the SCREW KNURLING (PL9.1.44), and then open the SHIELD WINDOW (PL9.1.21).
2) Release the one hook of the WIRELESS PRINTER ADAPTER (PL9.1.32) to remove the WIRELESS PRINTER ADAPTER from the ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27).

3. Replacement Steps

Replacement 1 MPF ROLLER (PL3.1.99)



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1) Fit the MPF ROLLER to the SHAFT MSI with the groove of the MPF ROLLER facing upward.
2) Rotate the MPF ROLLER 180 degrees so that the pin on the SHAFT MSI is aligned with the groove on the MPF ROLLER.
3) Slide the MPF ROLLER to the right so that the MPF ROLLER covers the pin on the SHAFT MSI.
4) Slide the right ROLL CORE MSI to the left. Secure the hook on the ROLL CORE MSI into the groove on the SHAFT MSI.
5) Replace the 250 SHEET PAPER TRAY to the printer.

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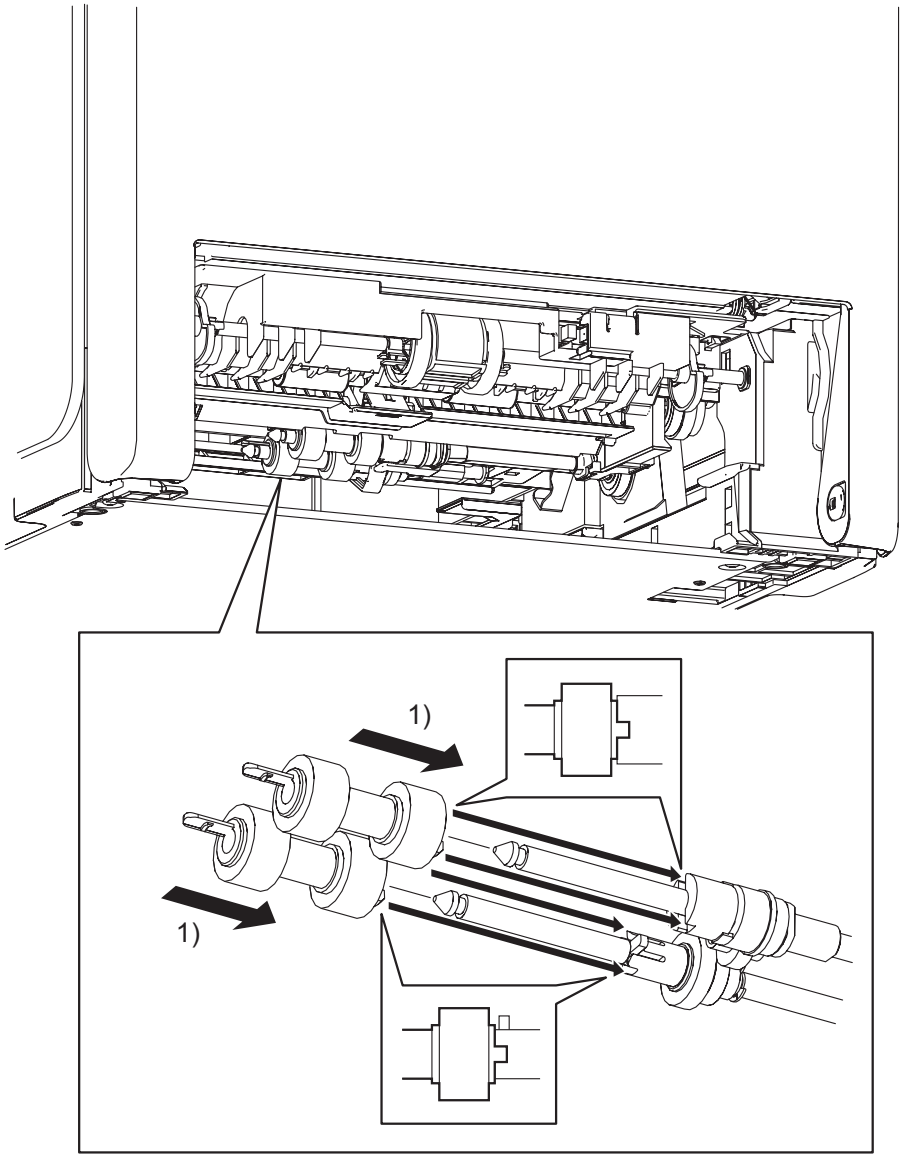
Replacement 2 KIT SEPARATOR ROLLER & FEED ROLLER (PL2.2.99)

NOTE

When replacing the SEPARATOR ROLLER or the FEED ROLLER replace the SEPARATOR ROLLER and the two FEED ROLLERs at the same time.



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1) Slide the FEED ROLLERs onto the shafts so that the lugs on the FEED ROLLERs are mated with the notches on the GEAR NUDGER A4 (PL3.2.46) and CLUTCH ONEWAY FEED (PL3.2.52). Lock the hooks on the other end of the FEED ROLLERs into the grooves on the shafts.

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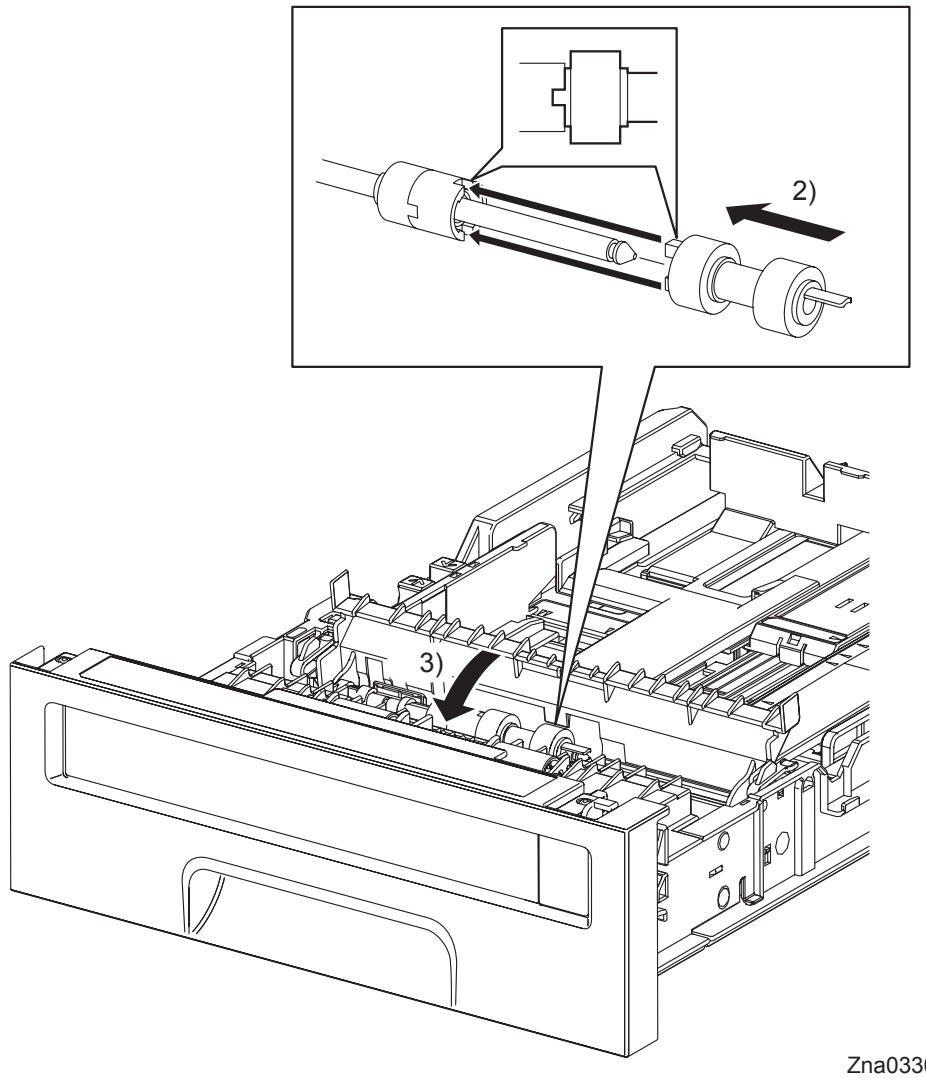
Replacement 2 KIT SEPARATOR ROLLER & FEED ROLLER (PL2.2.99)



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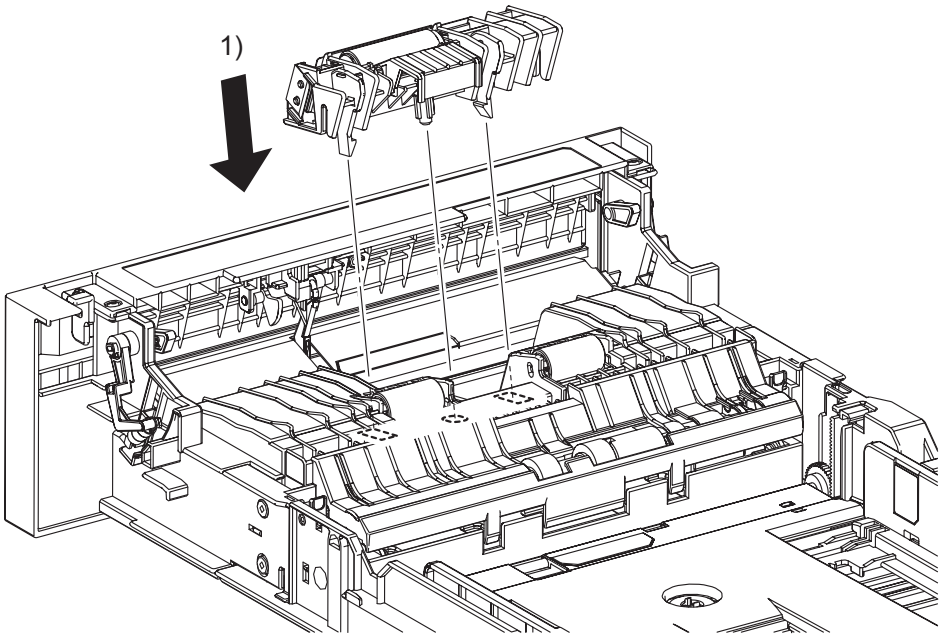
2) Slide the SEPARATOR ROLLER onto the SHAFT SEPARATOR so that the lug on the SEPARATOR ROLLER is mated with the notch on the CLUTCH FRICTION SPRTR (PL2.2.16). Secure the hook on the other end of the SEPARATOR ROLLER into the groove on the SHAFT SEPARATOR.
3) Close the CVR SPRTR CST.
4) Replace the 250 SHEET PAPER TRAY to the printer.

Replacement 3 MPF SEPARATOR ROLLER ASSEMBLY (PL2.1.3)



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1) Replace the MPF SEPARATOR ROLLER ASSEMBLY by mating the bosses of the MPF SEPARATOR ROLLER ASSEMBLY with the holes of the 250 SHEET PAPER TRAY. Secure the MPF SEPARATOR ROLLER ASSEMBLY with the two backside hooks.
2) Replace the 250 SHEET PAPER TRAY to the printer.

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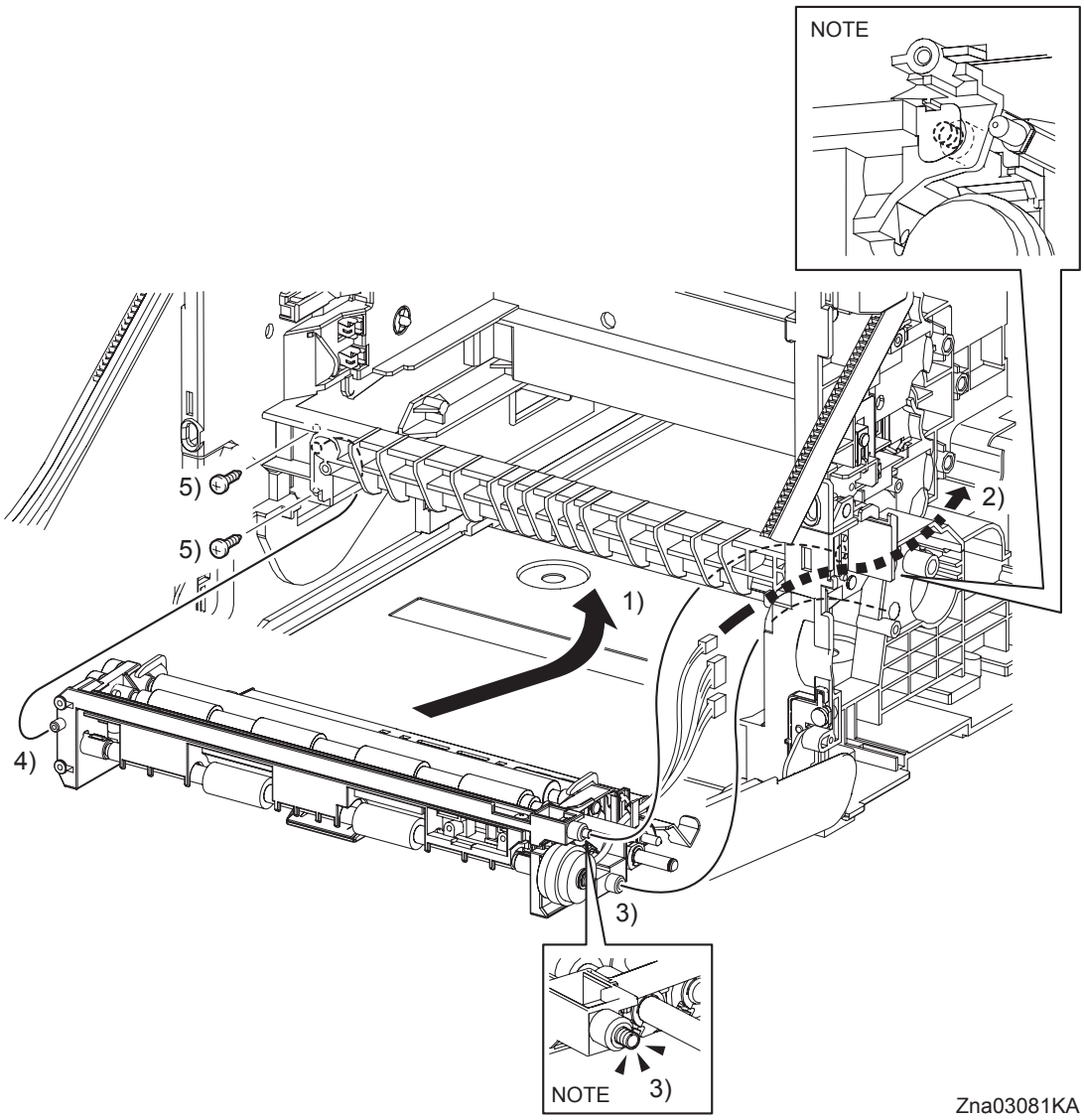
Replacement 4 INTEGRATED FEEDER ASSEMBLY (PL3.2.99)



NOTE When performing the step described below, take care not to drop and lose the SPRING EARTH on the right side of the INTEGRATED FEEDER ASSEMBLY.

NOTE When performing the step described below, check that the SPRING EARTH on the right side of the INTEGRATED FEEDER ASSEMBLY is in contact with the PLATE EARTH of the printer.

1) Insert the INTEGRATED FEEDER ASSEMBLY diagonally into the printer so that the right side of the INTEGRATED FEEDER ASSEMBLY goes in first.
2) Route the harness with the two connectors coming from the INTEGRATED FEEDER ASSEMBLY and the connector of the CLUTCH ASSY PH TURN out of the hole on the printer from inside.
3) Insert the bearing, the clutch and the two bosses (One is provided with the SPRING EARTH.) on the right side of the INTEGRATED FEEDER ASSEMBLY to the holes on the printer.
4) Insert the left side boss of the INTEGRATED FEEDER ASSEMBLY into the hole on the printer.
5) Secure the INTEGRATED FEEDER ASSEMBLY to the printer using the two screws (silver, tap, 10mm).

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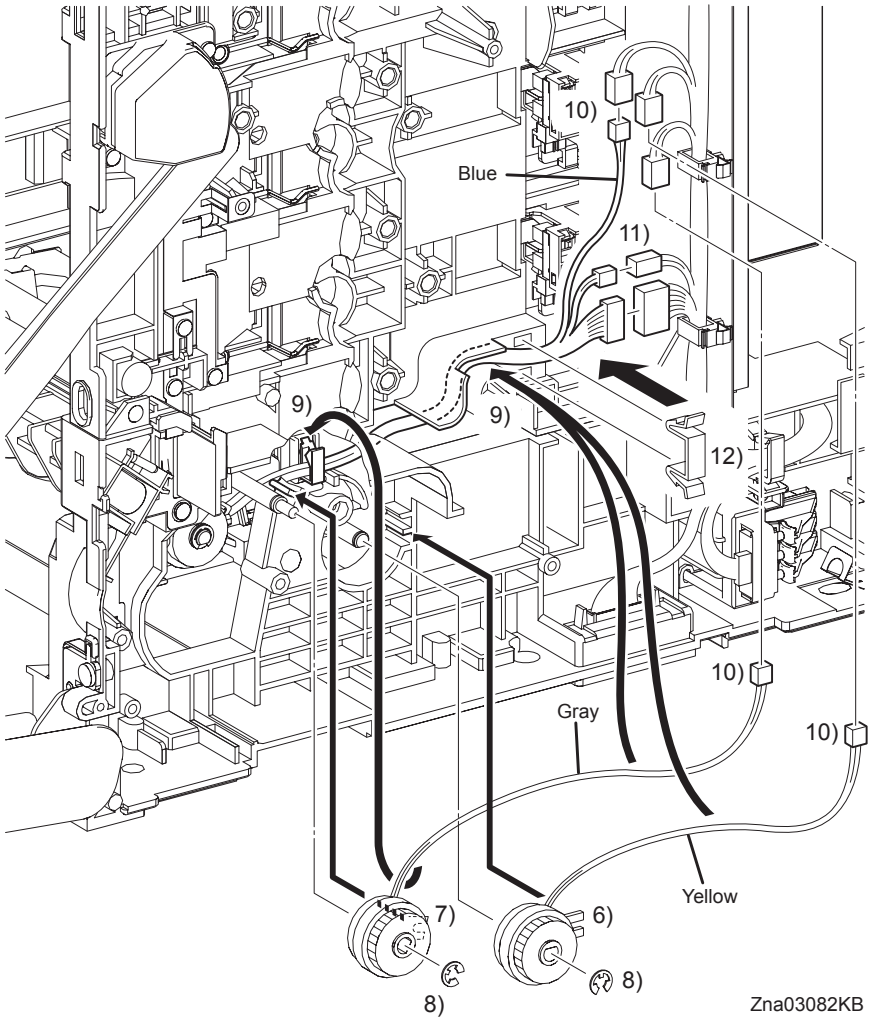
Replacement 4 INTEGRATED FEEDER ASSEMBLY (PL3.2.99)



NOTE

When replacing the CLUTCH, match the harness color of the CLUTCH with that of the fitting groove of the CLUTCH.
The harness color of the CLUTCH ASSY PH REGI is gray.
The harness color of the CLUTCH ASSY PH FEED is yellow.
The harness color of the CLUTCH ASSY PH TURN is blue.

6) Replace the CLUTCH ASSY PH FEED to the INTEGRATED FEEDER ASSEMBLY by mating the fitting groove the CLUTCH ASSY PH FEED with the lug on the INTEGRATED FEEDER ASSEMBLY.
7) Replace the CLUTCH ASSY PH REGI to the printer by mating the fitting groove on the CLUTCH ASSY PH REGI with the lug on the printer.
8) Replace the CLUTCH ASSY PH REGI and CLUTCH ASSY PH FEED to the INTEGRATED FEEDER ASSEMBLY using the e-rings.
9) Route the harnesses along the printer and bind them with the clamps on the INTEGRATED FEEDER ASSEMBLY and the printer.

NOTE

When engaging the connectors of the CLUTCHes, match the color of the CLUTCH harness with that of the harness on the printer side.

10) Engage the connector (P/J231) of the CLUTCH ASSY PH REGI, the connector (P/J233) of the CLUTCH ASSY PH FEED, and the connector (P/J232) of the CLUTCH ASSY PH TURN.
11) Engage the connectors (P/J292 and P/J301) of the INTEGRATED FEEDER ASSEMBLY.
12) Attach the CLAMP to the frame of the printer, secure the harness using the CLAMP.

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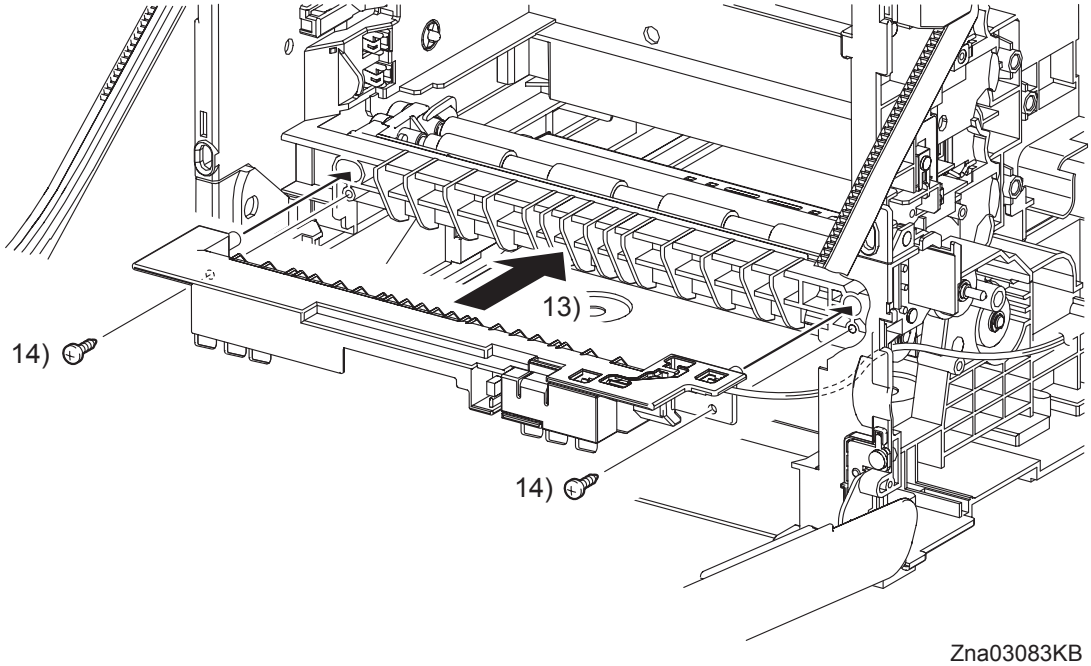
Replacement 4 INTEGRATED FEEDER ASSEMBLY (PL3.2.99)



NOTE

When performing the step described below, ensure that the harness will not be caught between the CHUTE MSI and the printer.

13) Replace the CHUTE MSI by mating the two bosses on the CHUTE MSI with the holes on the printer.

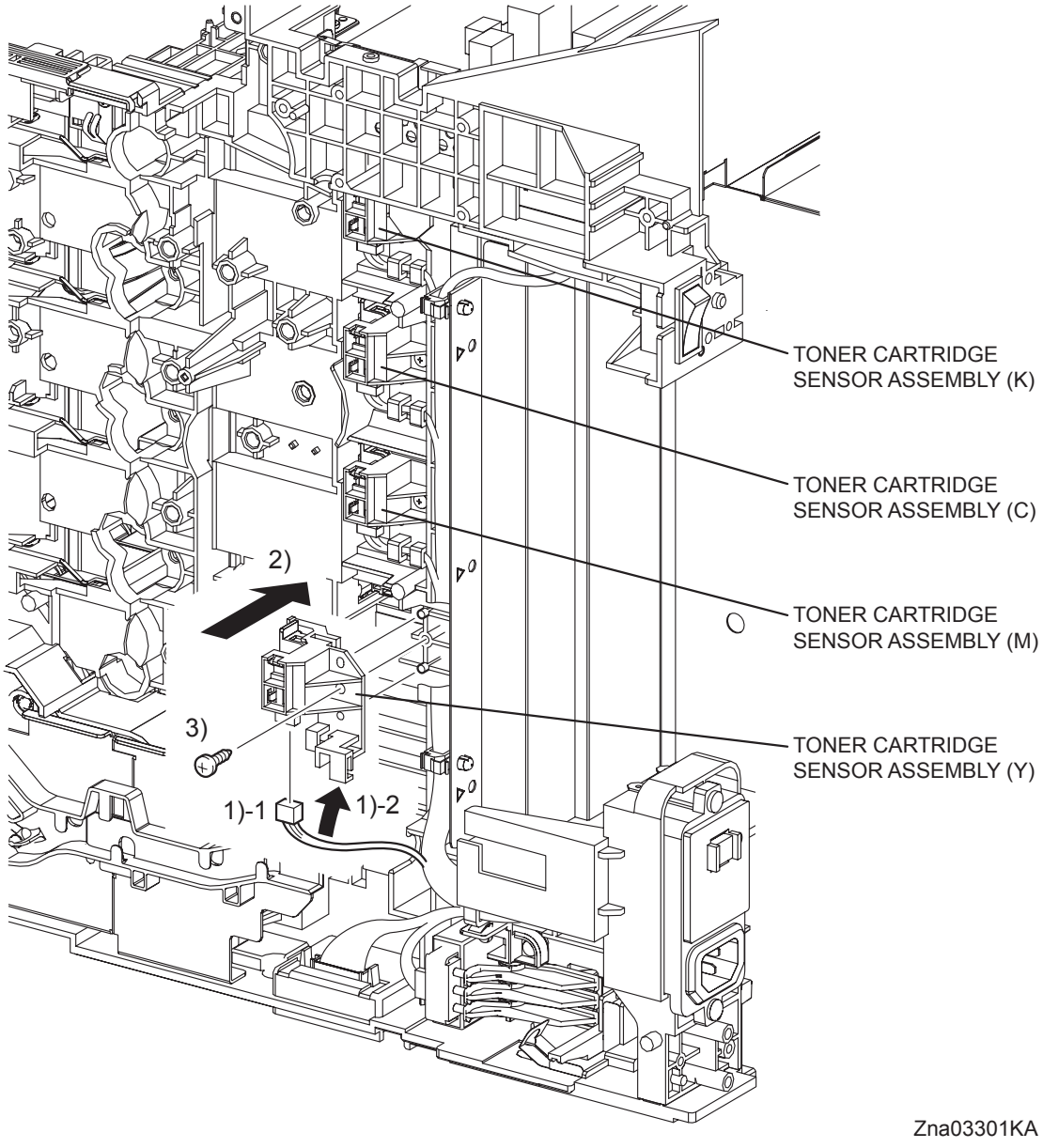
14) Secure the CHUTE MSI to the printer using the two screws (silver, tap, 10mm).

Go to the next replacement step:
Replacement 28 ROLL ASSY MSI (PL3.1.8)

Replacement 5 TONER CARTRIDGE SENSOR ASSEMBLY (K), (C), (M), (Y) (PL5.1.4)

NOTE

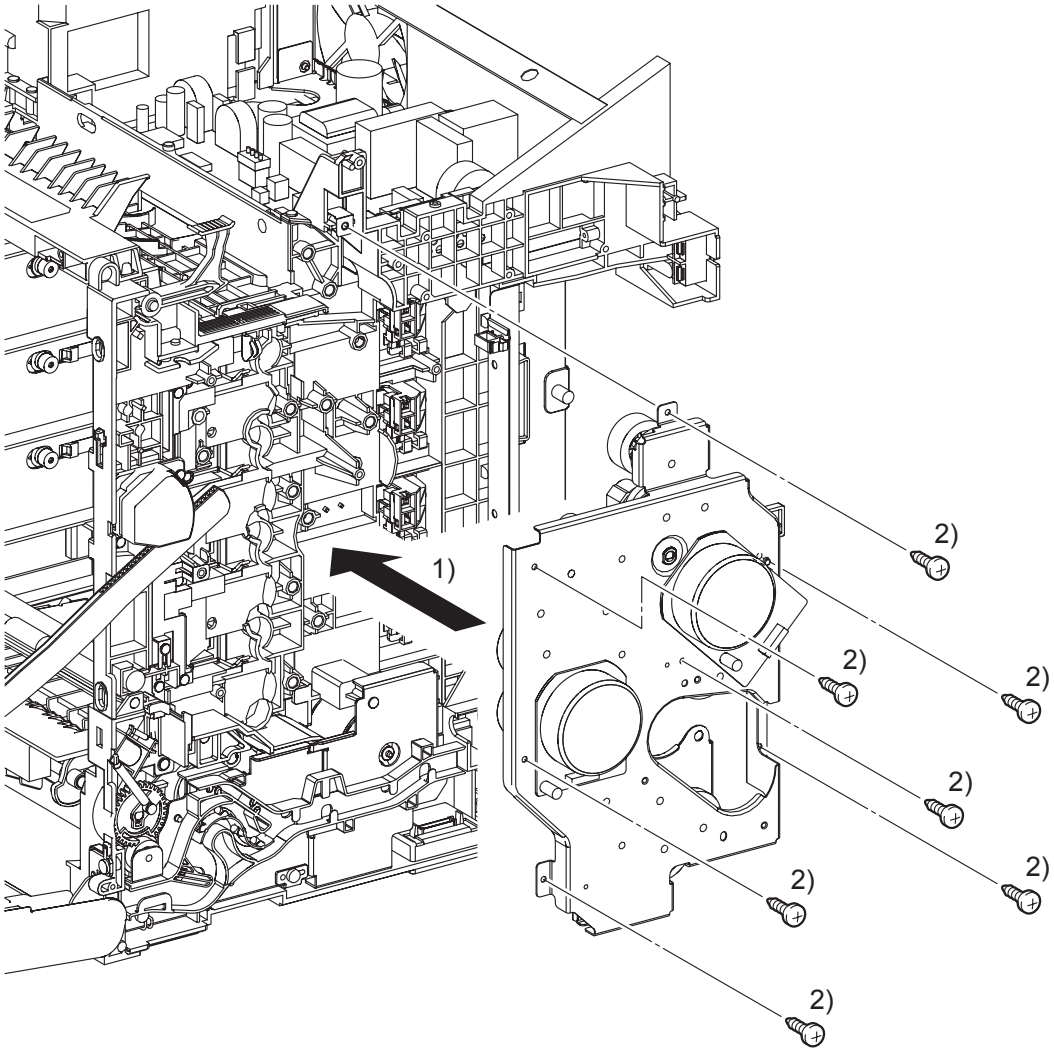
Described below is the replacement procedure common among TONER CARTRIDGE SENSOR ASSYs (C), (M), (Y), and (K).



1) Engage the connector of the TONER CARTRIDGE SENSOR ASSEMBLY, and then route the harness to hook of the TONER CARTRIDGE SENSOR ASSEMBLY.
2) Mate the two holes on the TONER CARTRIDGE SENSOR ASSEMBLY with the bosses on the printer.
3) Secure the TONER CARTRIDGE SENSOR ASSEMBLY to the printer using the one screw (silver, tap, 10mm).

Go to the next replacement step:
Replacement 6 PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2)

Replacement 6 PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2)



1) Replace the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE by aligning the gear of each drive of the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE with the holes on the printer.
2) Secure the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE to the printer using the seven screws (silver, tap, 10mm).

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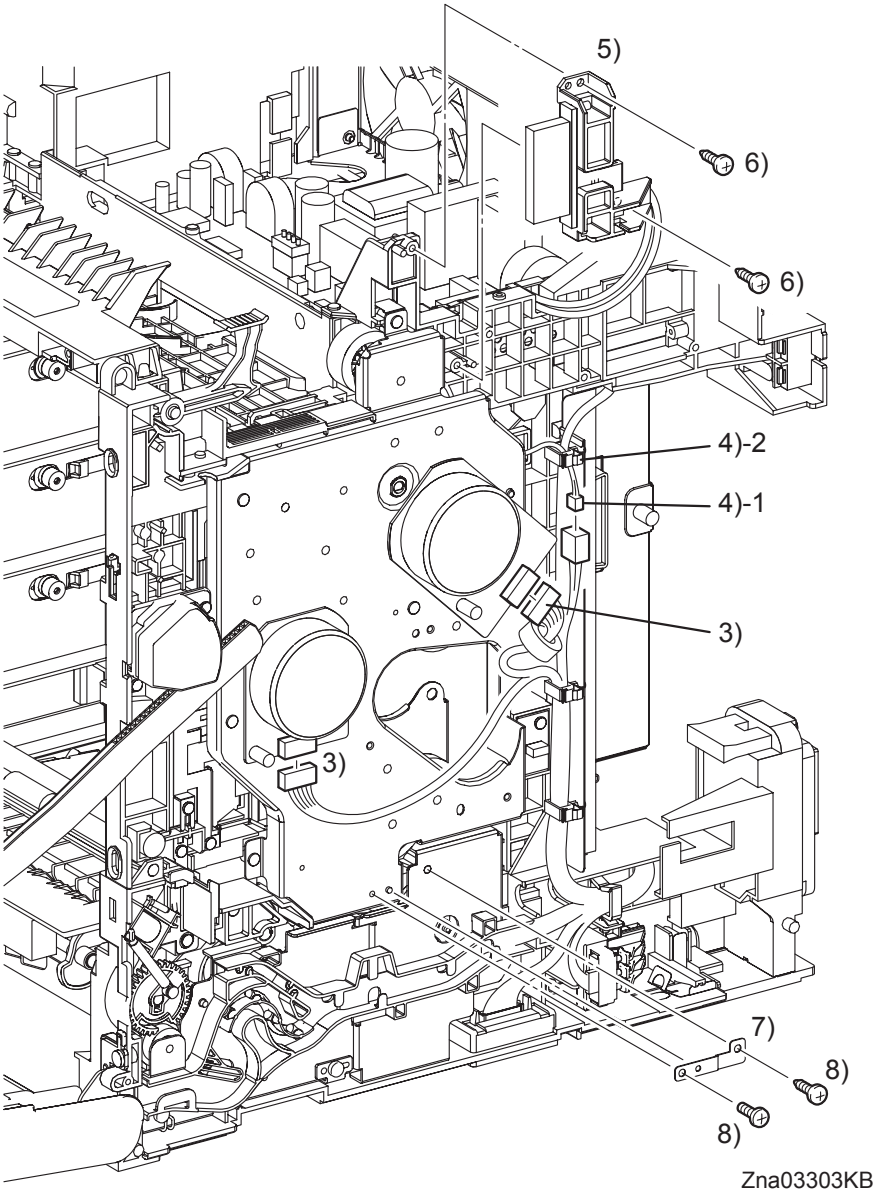
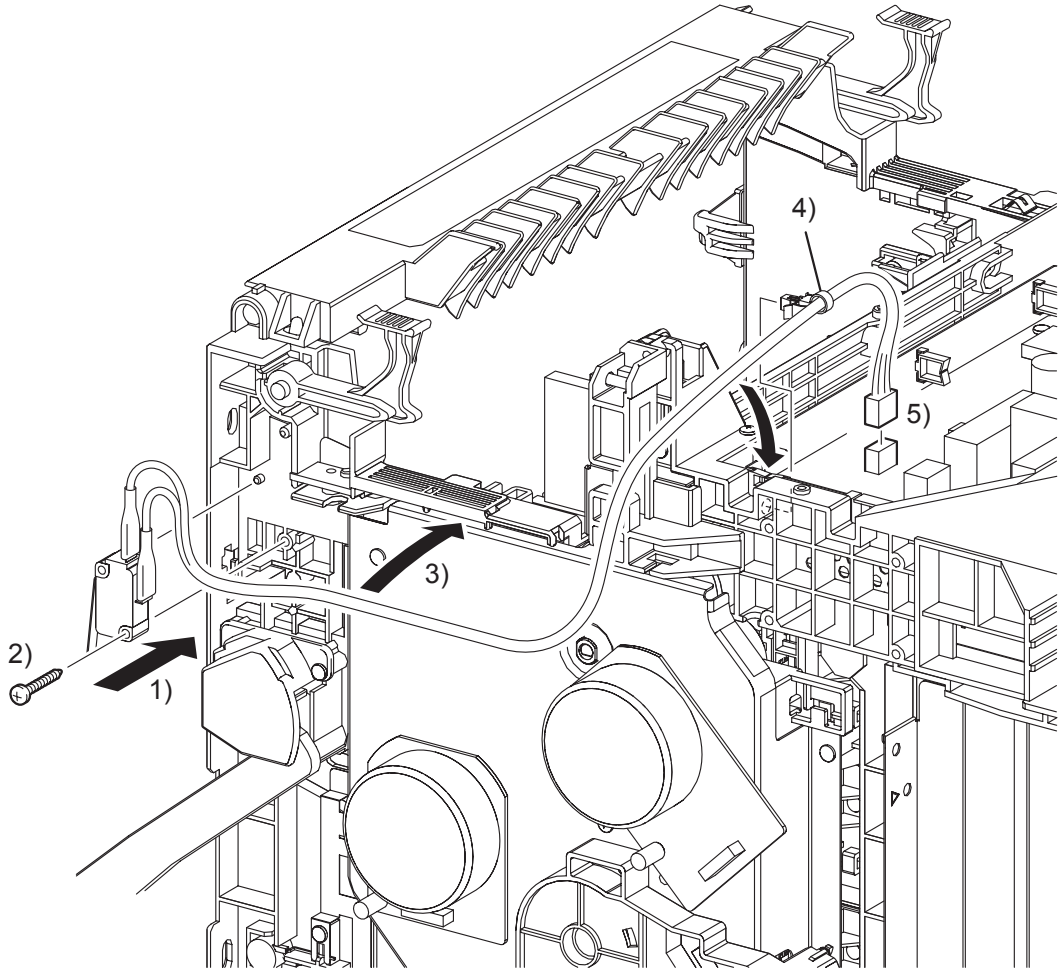
Replacement 6 PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE (PL8.1.2)



3) Engage the two connectors with the Main Motor and the Sub Motor.
4) Engage the connector (P/J235) of the Exit Clutch in the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE, and then fix the harness using the clamp.
5) Replace the BRACKET FUSER by mating its two holes with the bosses on the printer.
6) Secure the BRACKET FUSER using the two screws (silver, tap, 10mm).
7) Mate the one hole on the PLATE EARTH DRV MP with the boss on the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE.
8) Secure the PLATE EARTH DRV MP to the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE and FEED DRIVE ASSEMBLY using the one screw (silver, 6mm) and the one screw (silver, tap, 10mm).

Go to the next replacement step:
Replacement 16 DRIVE ASSY K (PL8.1.10)

Replacement 7 INTERLOCK SWITCH (PL9.1.3)



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1) Replace the INTERLOCK SWITCH by mating the hole on the INTERLOCK SWITCH with the boss on the printer.
2) Secure the INTERLOCK SWITCH to the printer using the one screw (silver, tap, 16mm).
3) Route the harness of the INTERLOCK SWITCH to the duct of the printer.
4) Replace the clamp that fixes the harness of the INTERLOCK SWITCH to the SHIELD LVPS.
5) Engage the connector (P/J44) of the INTERLOCK SWITCH to the LOW VOLTAGE POWER SUPPLY.

Go to the next replacement step:
Replacement 13 TOP COVER (PL1.1.1)

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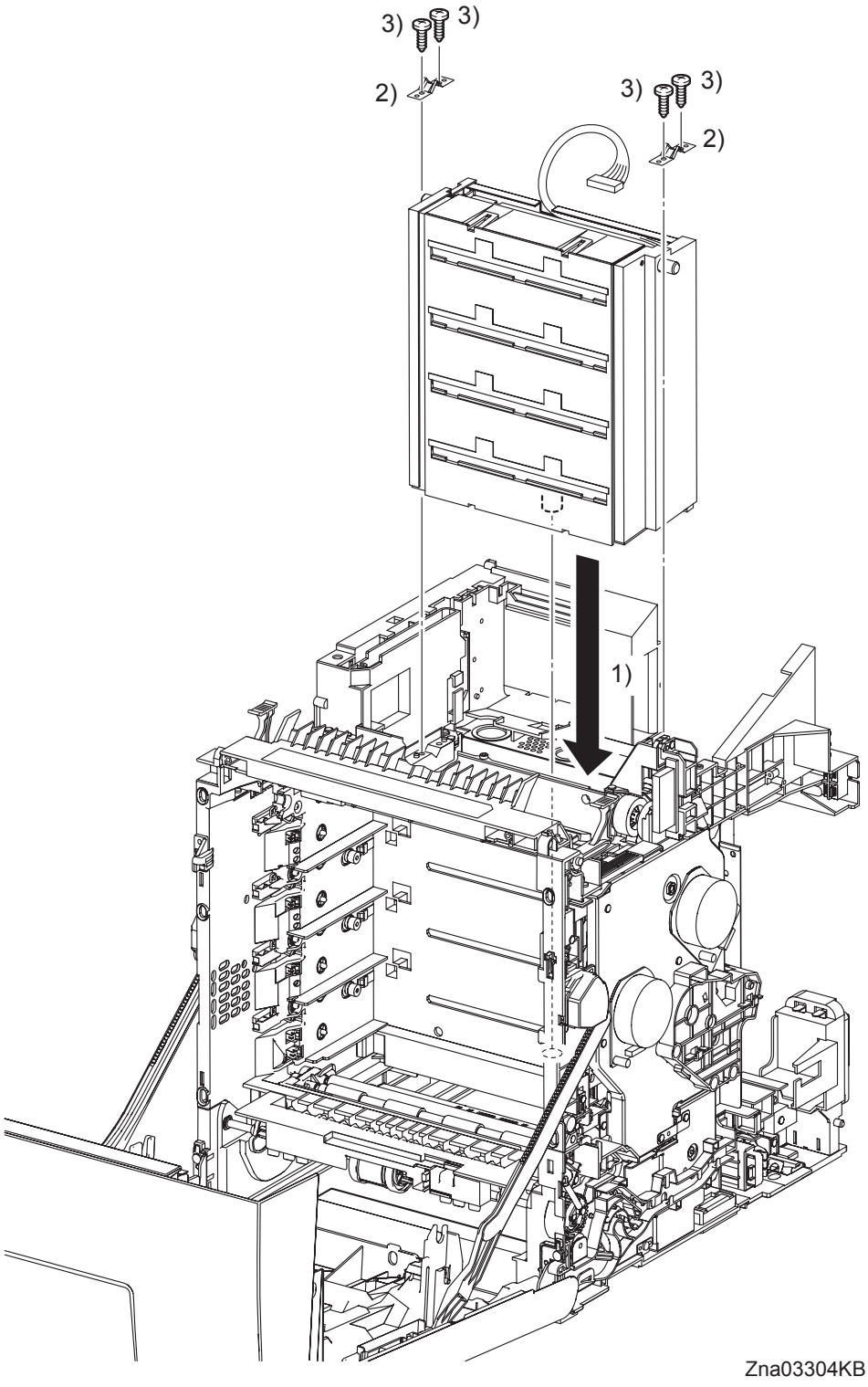
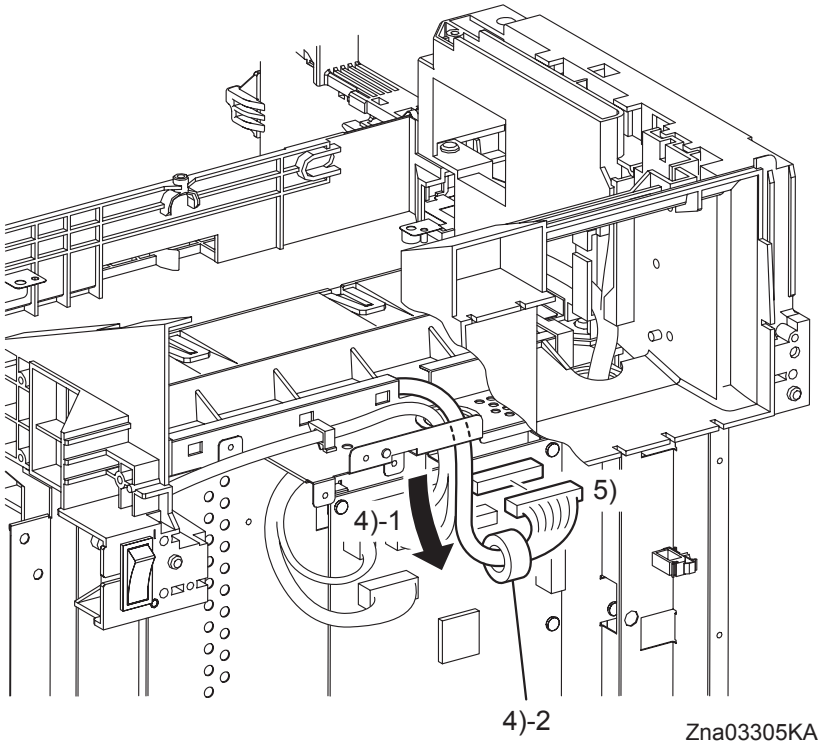
Replacement 8 ROS (PL5.1.99)



1) Insert the ROS by mating the backside boss of the ROS with the hole on the printer.
2) Place the two SPRING ROSs onto the left and right side bosses on the ROS so that the holes of SPRING ROSs are mated with the bosses on the printer.
3) Secure the SPRING ROSs to the printer using the four screws (silver, tap, 10mm).

Continues to the next page.

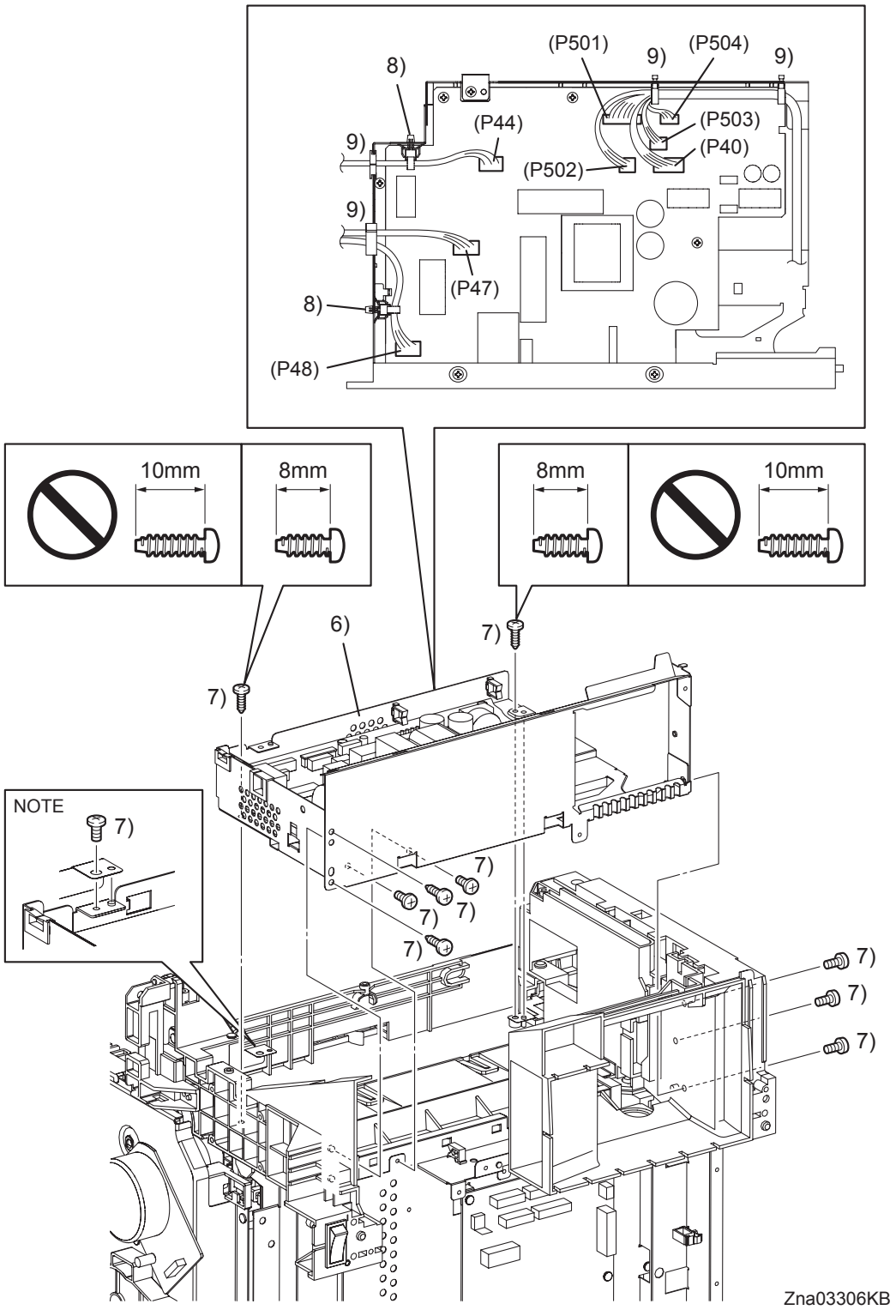
Replacement 8 ROS (PL5.1.99)



4) Pass the connector of the ROS through the hole on the SHIELD REAR, and then replace the CORE to the harness of the ROS.
5) Engage the connector (P/J12) of the ROS with the connector on the MACHINE CONTROL UNIT.

Continues to the next page.

Replacement 8 ROS (PL5.1.99)



NOTE When securing the one positions shown in the figure, make sure that the SHIELD LVPS is under the PLATE EARTH.

Continues to the next page.

6) Replace the LVPS ASSY to the printer by mating the three holes on the SHIELD LVPS with the bosses on the printer.

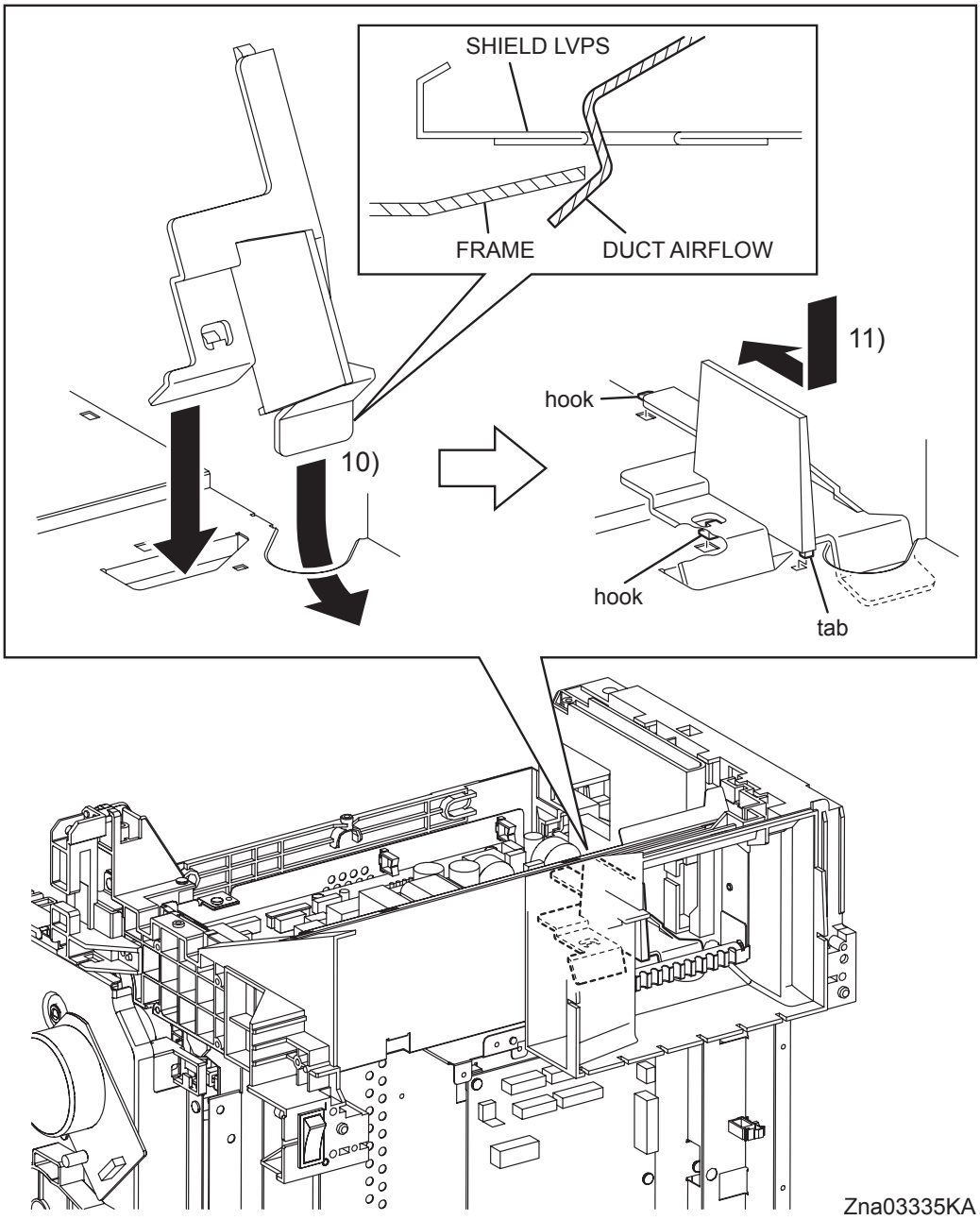
NOTE

Ensure the 8mm screws are used to secure the uppper side of the LVPS ASSY. Use of 10mm screws will damage the frame.

7) Secure the LVPS ASSY to the printer using the six screws (silver, 6mm), the two screws (silver, tap, 8mm) and the two screws (silver, tap, 10mm).
8) Replace the clamps that fix the harness of the INTERLOCK SWITCH and HARN ASSY AC IN to the SHIELD LVPS.
9) Engage all the connectors of the LOW VOLTAGE POWER SUPPLY, and then secure the harness with the clamps.

Continues to the next page.

Replacement 8 ROS (PL5.1.99)



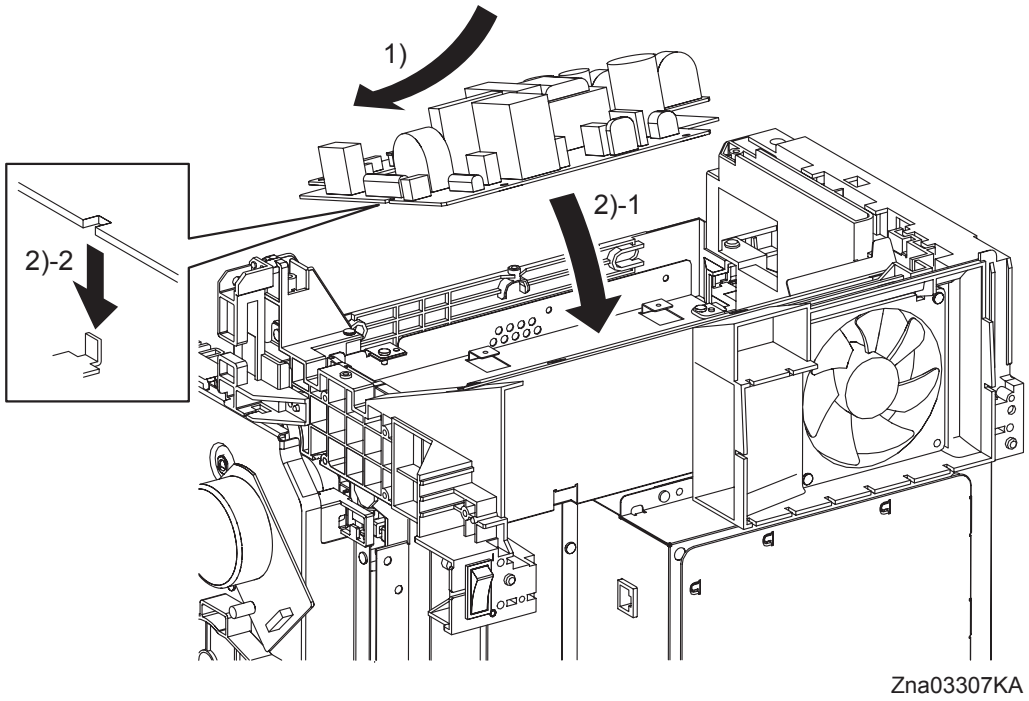
10) Install the DUCT AIRFLOW to the printer by slipping in its rear end underneath the frame.
11) Mate the two hooks of the DUCT AIRFLOW with the holes of the SHIELD LVPS. Move the DUCT AIRFLOW frontward until it is secured onto the SHIELD LVPS at the two hooks and one tab.

Go to the next replacement step:
Replacement 12 FAN (PL9.1.10)

Replacement 9 LOW VOLTAGE POWER SUPPLY (PL9.1.4)

NOTE

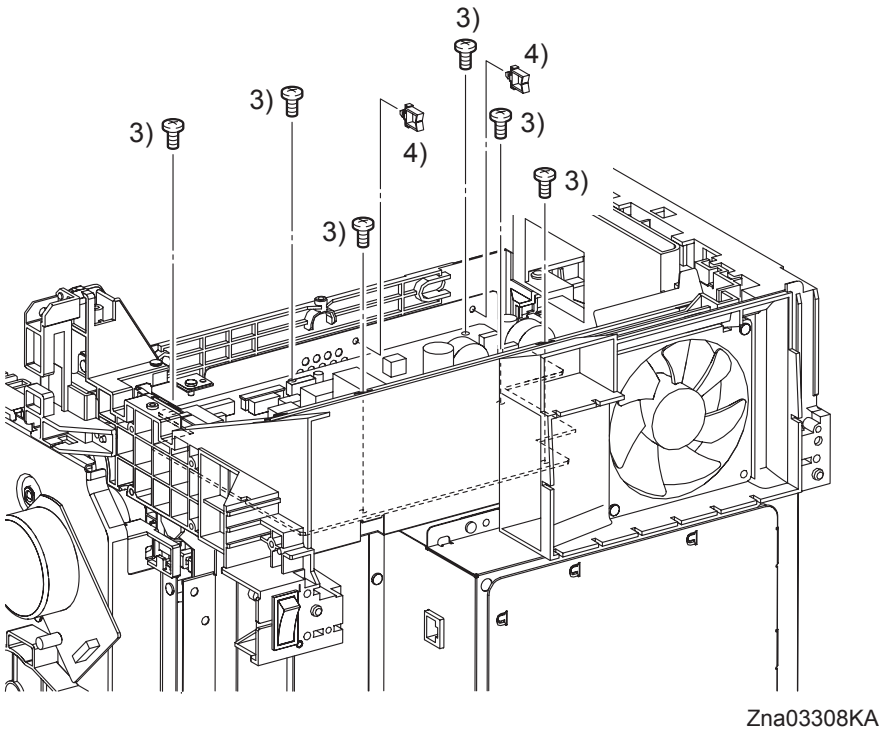
Use a wristband to protect the PWB from electrostatic damage.



1) Put the LOW VOLTAGE POWER SUPPLY on the SHIELD LVPS with holding up the rear side of the LOW VOLTAGE POWER SUPPLY.
2) Mate the notch of the LOW VOLTAGE POWER SUPPLY to the tab of the SHIELD LVPS to attach the LOW VOLTAGE POWER SUPPLY.

Continues to the next page.

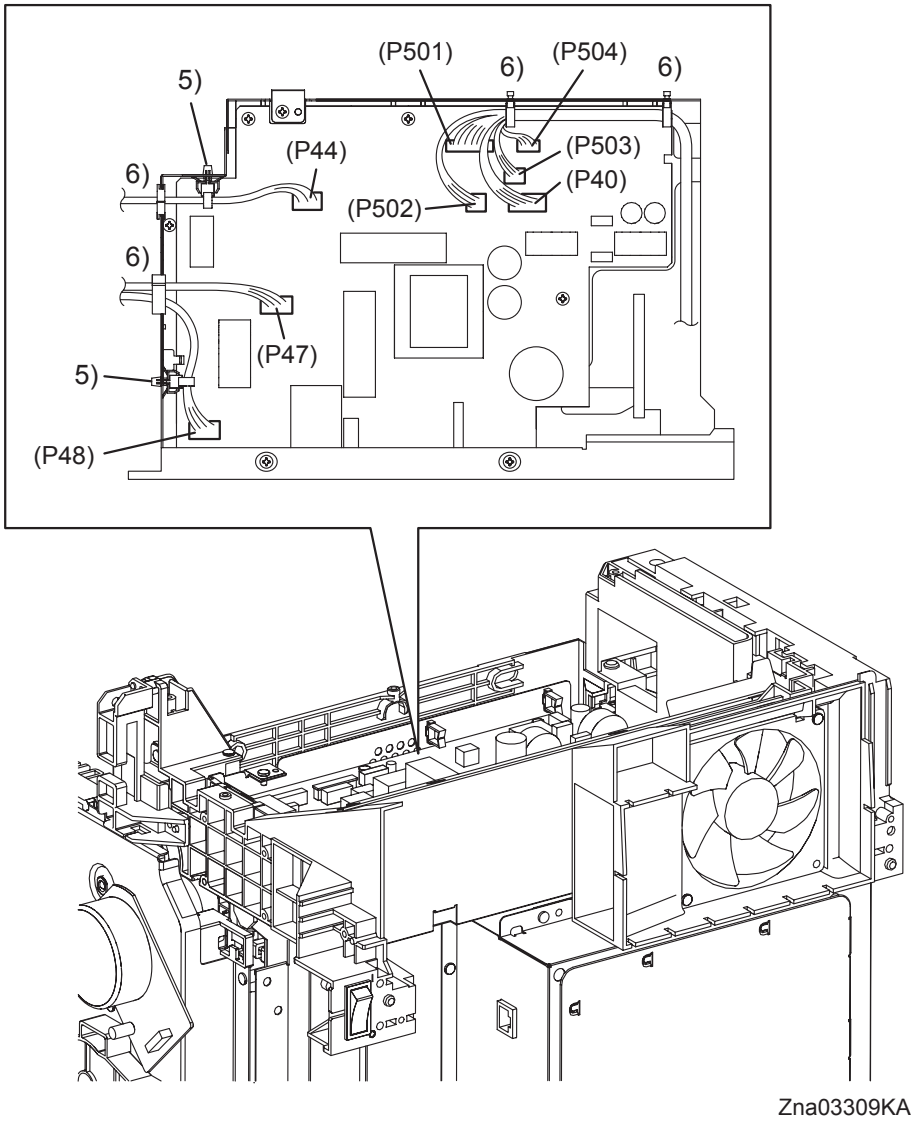
Replacement 9 LOW VOLTAGE POWER SUPPLY (PL9.1.4)



3) Secure the LOW VOLTAGE POWER SUPPLY to the SHIELD LVPS using the six screws (silver, 6mm).
4) Attach the two clamps to the SHIELD LVPS.

Continues to the next page.

Replacement 9 LOW VOLTAGE POWER SUPPLY (PL9.1.4)



5) Replace the clamps that fix the harness of the INTERLOCK SWITCH and HARN ASSY AC IN to the SHIELD LVPS.
6) Engage all the connectors of the LOW VOLTAGE POWER SUPPLY, and then secure the harness with the clamps.

Go to the next replacement step:
Replacement 13 TOP COVER (PL1.1.1)

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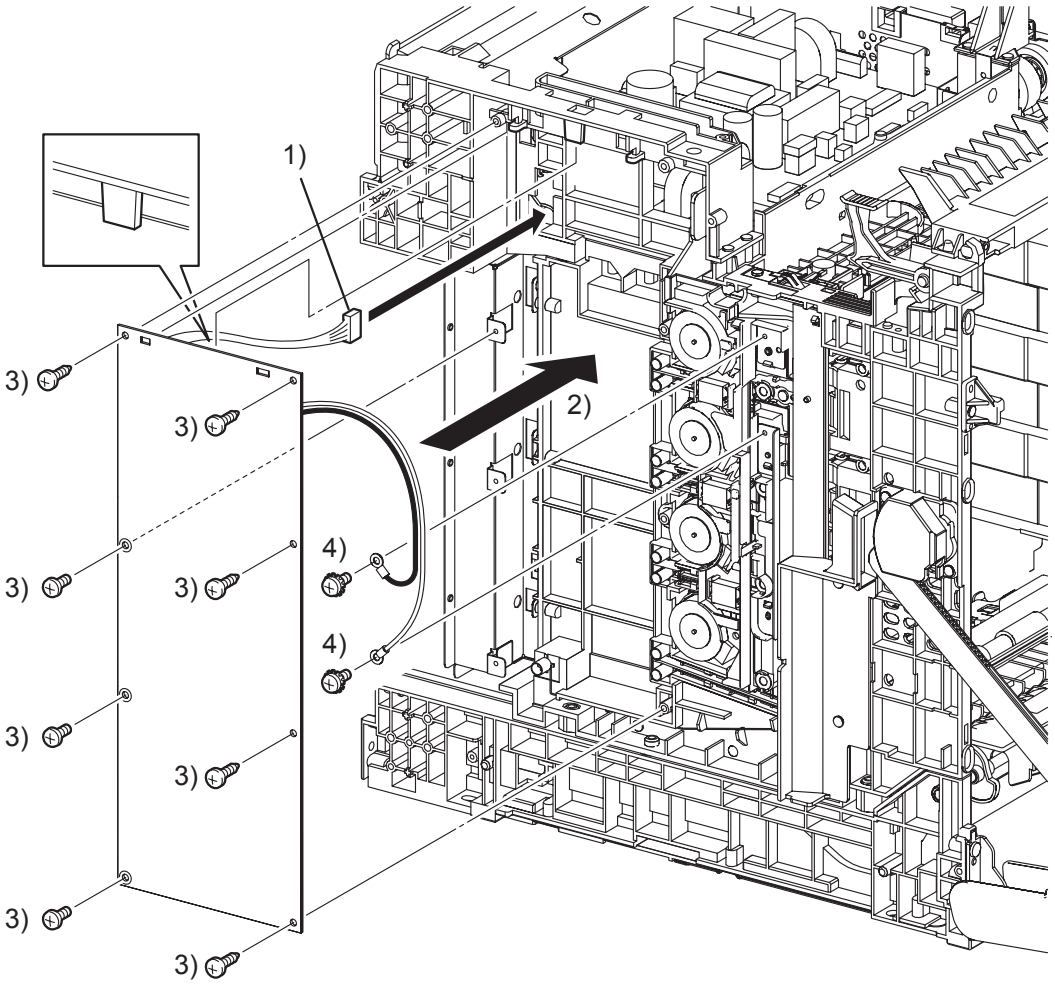
Replacement 10 HIGH VOLTAGE POWER SUPPLY (PL5.1.17)

NOTE

Use a wristband to protect the PWB from electrostatic damage.



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1) Pass the connector of the HIGH VOLTAGE POWER SUPPLY through the hole of the printer.
2) Replace the HIGH VOLTAGE POWER SUPPLY by mating the two holes on the upper part of the HIGH VOLTAGE POWER SUPPLY with the bosses on the printer and inserting the upper part of the HIGH VOLTAGE POWER SUPPLY into the backside tab on the printer.

NOTE

In the step described below, out of the screw fixing positions of the HIGH VOLTAGE POWER SUPPLY, the three screw fixing positions with white bearing surfaces must be fixed with the 6mm silver screws.

3) Secure the HIGH VOLTAGE POWER SUPPLY with the five screws (silver, tap, 10mm) and the three screws (silver, 6mm).

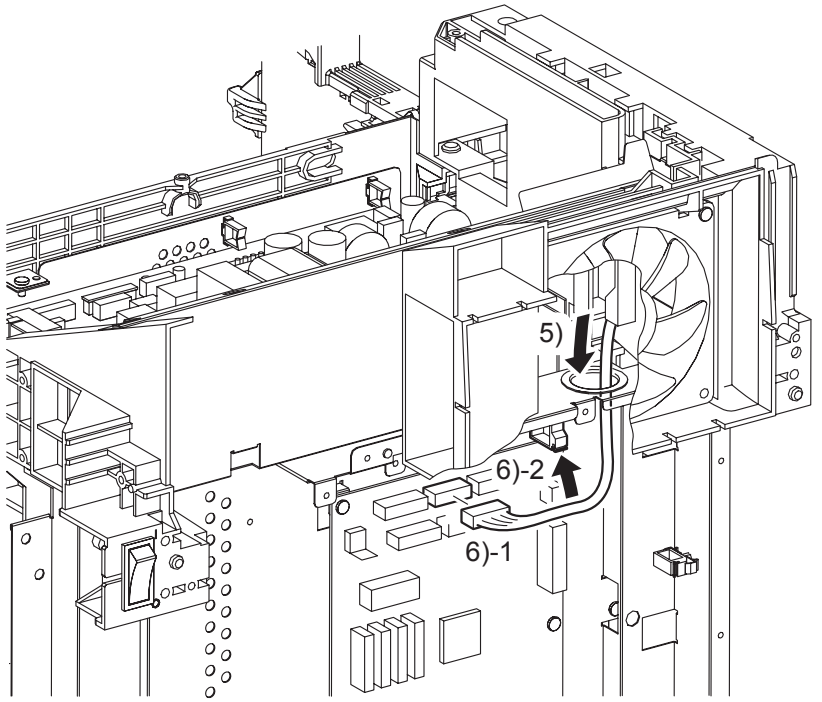
NOTE

When performing the step described below, secure the red harness on the upper side and secure the white harness on the lower side.

4) Secure the two harnesses of the HIGH VOLTAGE POWER SUPPLY using the two screws (silver, with washer, 6mm).

Continues to the next page.

Replacement 10 HIGH VOLTAGE POWER SUPPLY (PL5.1.17)



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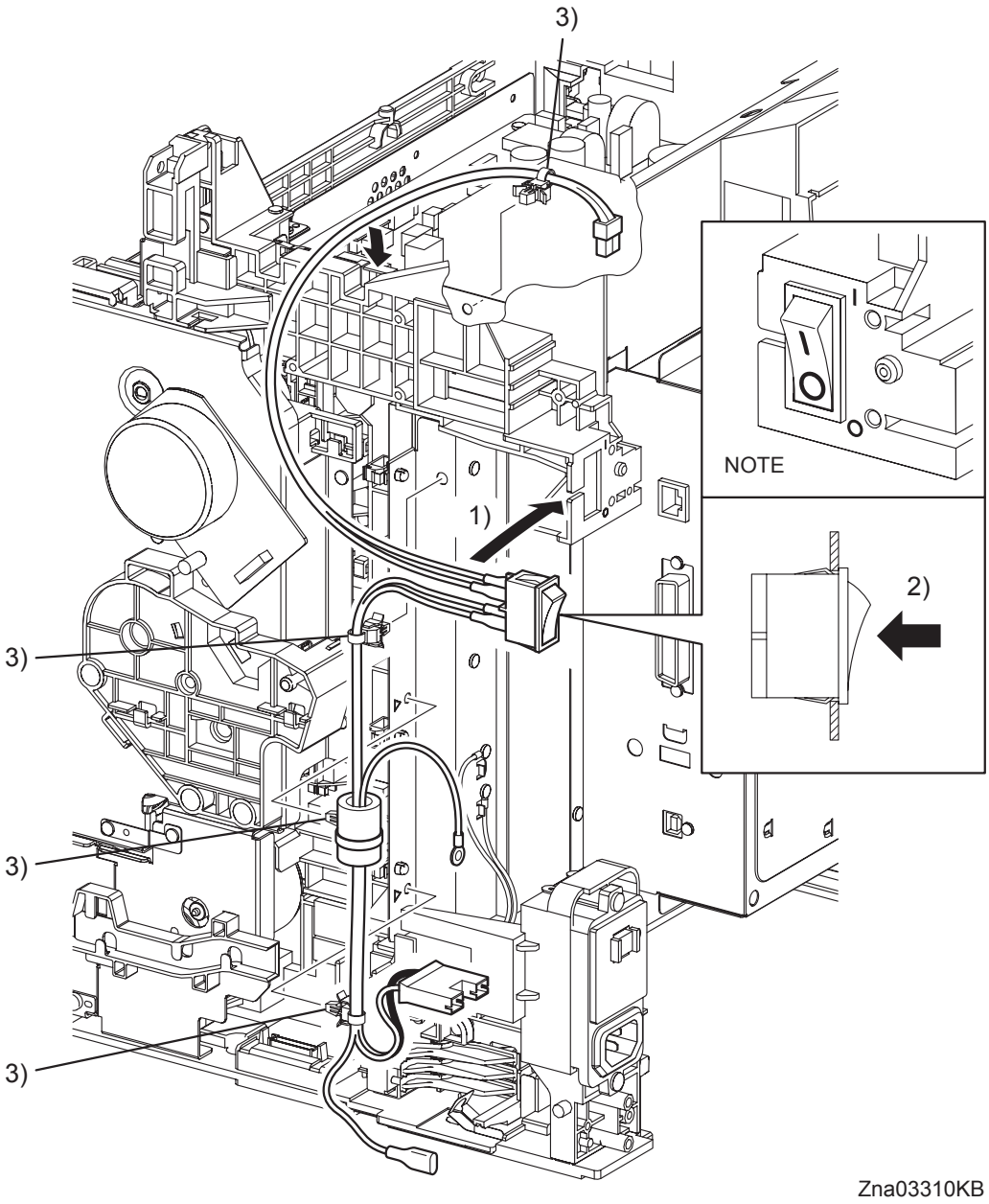
5) Route the harness of the HIGH VOLTAGE POWER SUPPLY to the printer and pass the connector into the hole on the SHIELD REAR.
6) Engage the connector (J16) of the HIGH VOLTAGE POWER SUPPLY to the connector (P16) of the MACHINE CONTROL UNIT.

Go to the next replacement step:
Replacement 13 TOP COVER (PL1.1.1)

Replacement 11 HARN ASSY AC IN (PL9.1.16)



1) Pass the HARN ASSY AC IN into the inside of the printer, through the notch of the printer.

NOTE When replacing the POWER SWITCH, match the ON/OFF mark of the POWER SWITCH with the mark on the FRAME.

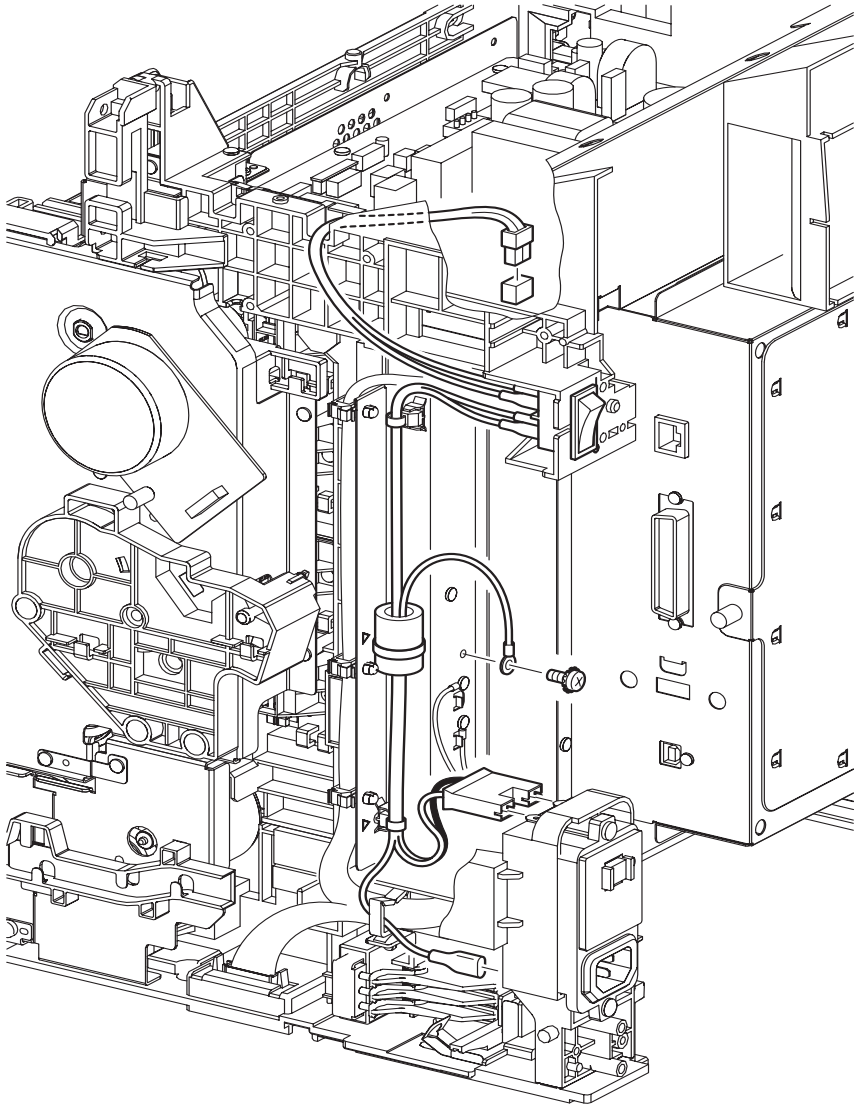
2) Replace the POWER SWITCH to the printer, and secure with the hook.

NOTE The delta mark is stamped on each clamp mounting hole of SHIELD REAR.

3) Attach the four clamps to the holes on the SHIELD LVPS and the SHIELD REAR.

Continues to the next page.

Replacement 11 HARN ASSY AC IN (PL9.1.16)



Zna03311KB

NOTE

Attach the grounding terminal of the HARN ASSY AC IN to the hole of grounding mark.

4) Fix the grounding terminal of the HARN ASSY AC IN using the one screw (silver, with washer, M4, 6mm).
5) Engage the FASTON terminal (FS483) of the HARN ASSY AC IN with the BREAKER GFI INLET, and then fix the grounding wire using the clamp.

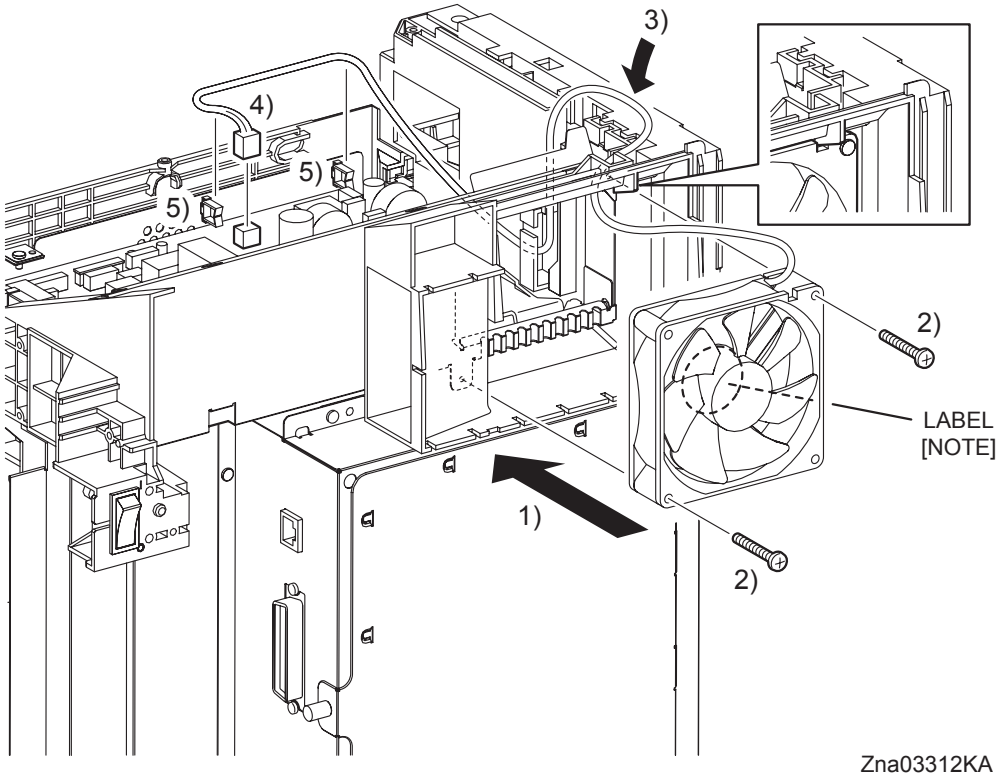
NOTE

When performing the step describe below, do not confuse the connector fitting position.

6) Engage the connector (P/J482) of the HARN ASSY AC IN to the BREAKER GFI INLET.
7) Engage the connector (P/J48) of the HARN ASSY AC IN to the LOW VOLTAGE POWER SUPPLY.

Go to the next replacement step:
Replacement 13 TOP COVER (PL1.1.1)

Replacement 12 FAN (PL9.1.10)



NOTE

When performing the step described below, take care to check the orientation of the FAN. (Attach the FAN so that its labeled surface faces front.)

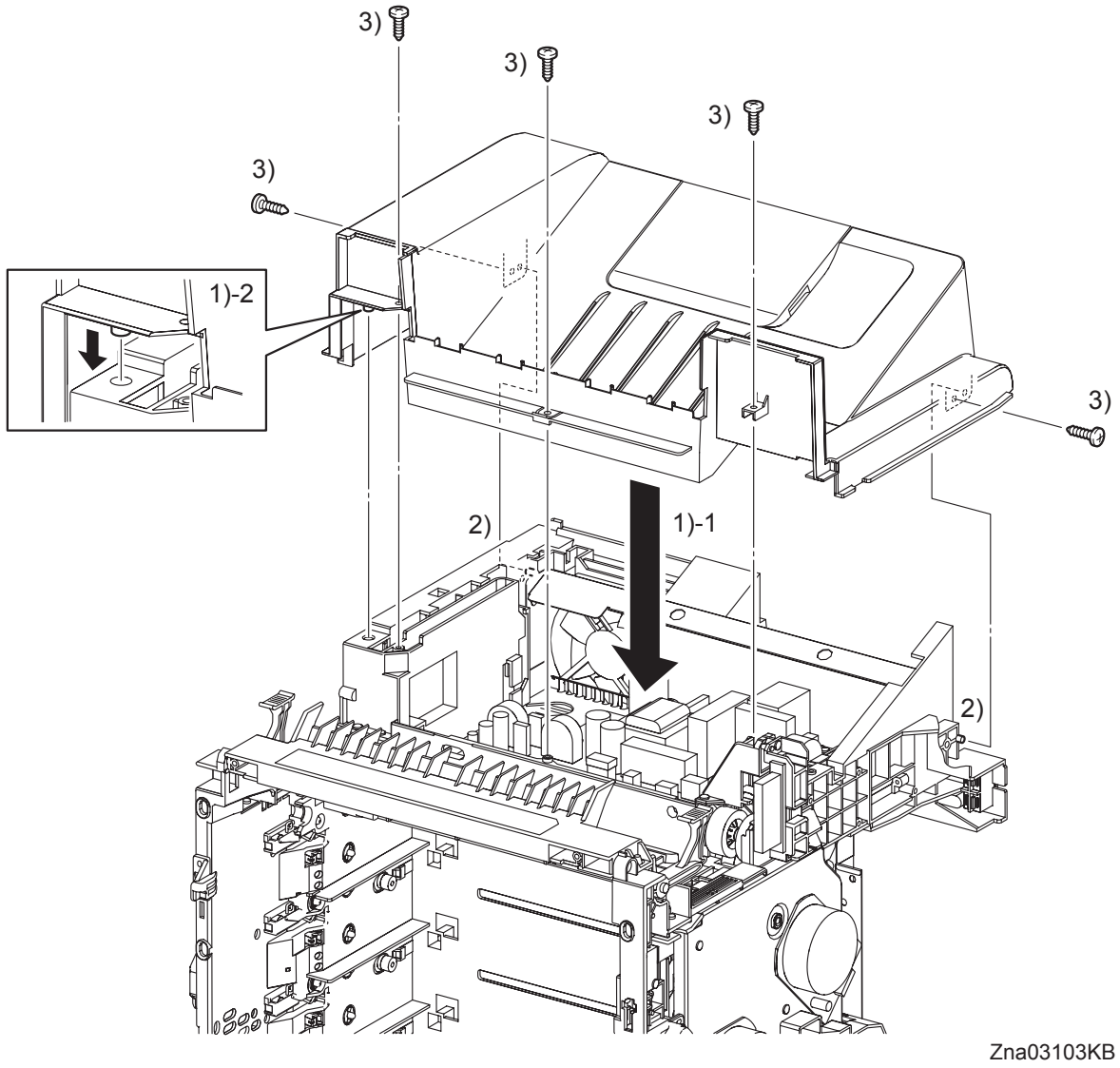
NOTE

When performing the step describe below, ensure that the harness of the FAN will not be caught between the FAN and the SHIELD LVPS.

1) Mate the notch of the FAN with the rib of the printer and attach the FAN to the printer.
2) Secure the FAN to the printer using the two screws (silver, 30mm).
3) Route the harness of the FAN to the hook on the frame.
4) Engage the connector (P/J503) of the FAN to the LOW VOLTAGE POWER SUPPLY.
5) Secure the harness of the FAN with the clamp.

Go to the next replacement step:
Replacement 13 TOP COVER (PL1.1.1)

Replacement 13 TOP COVER (PL1.1.1)



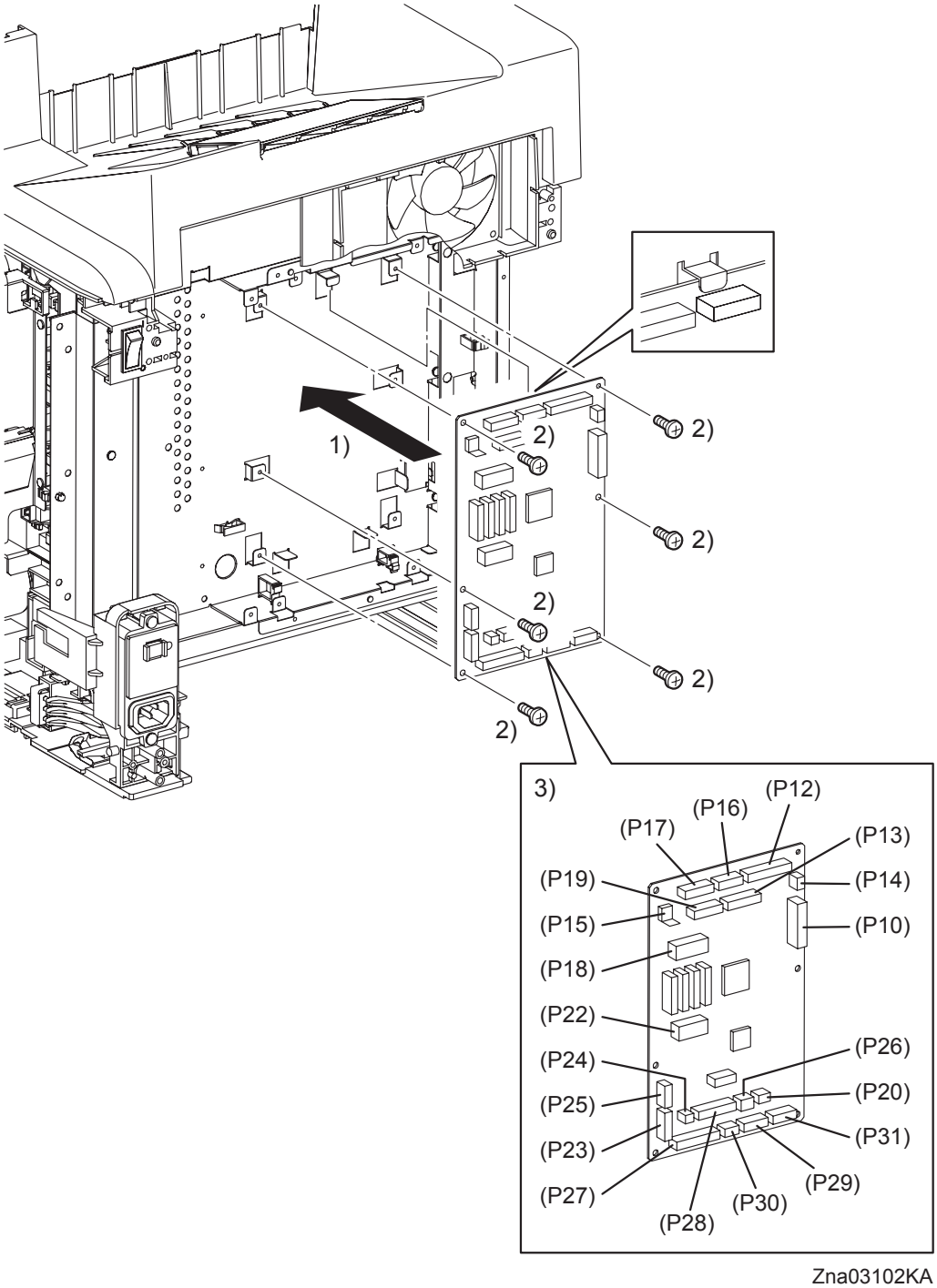
1) Mate the left side boss of the TOP COVER with the hole of the printer, set the TOP COVER to the printer.
2) Mate the holes of the TOP COVER with the left and right bosses of the printer, attach the TOP COVER.
3) Fix the TOP COVER to the printer with the five screws (silver, tap, 10mm).

Go to the next replacement step:
Replacement 24 LEFT COVER (PL1.1.7)

Replacement 14 MACHINE CONTROL UNIT (PL9.1.20)

NOTE

Use a wristband to protect the PWB from electrostatic damage.



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1) Replace the MACHINE CONTROL UNIT to the printer.
2) Secure the MACHINE CONTROL UNIT using the six screws (silver, 6mm).
3) Engage all the connectors of the MACHINE CONTROL UNIT.

Continues to the next page.

Replacement 14 MACHINE CONTROL UNIT (PL9.1.20)

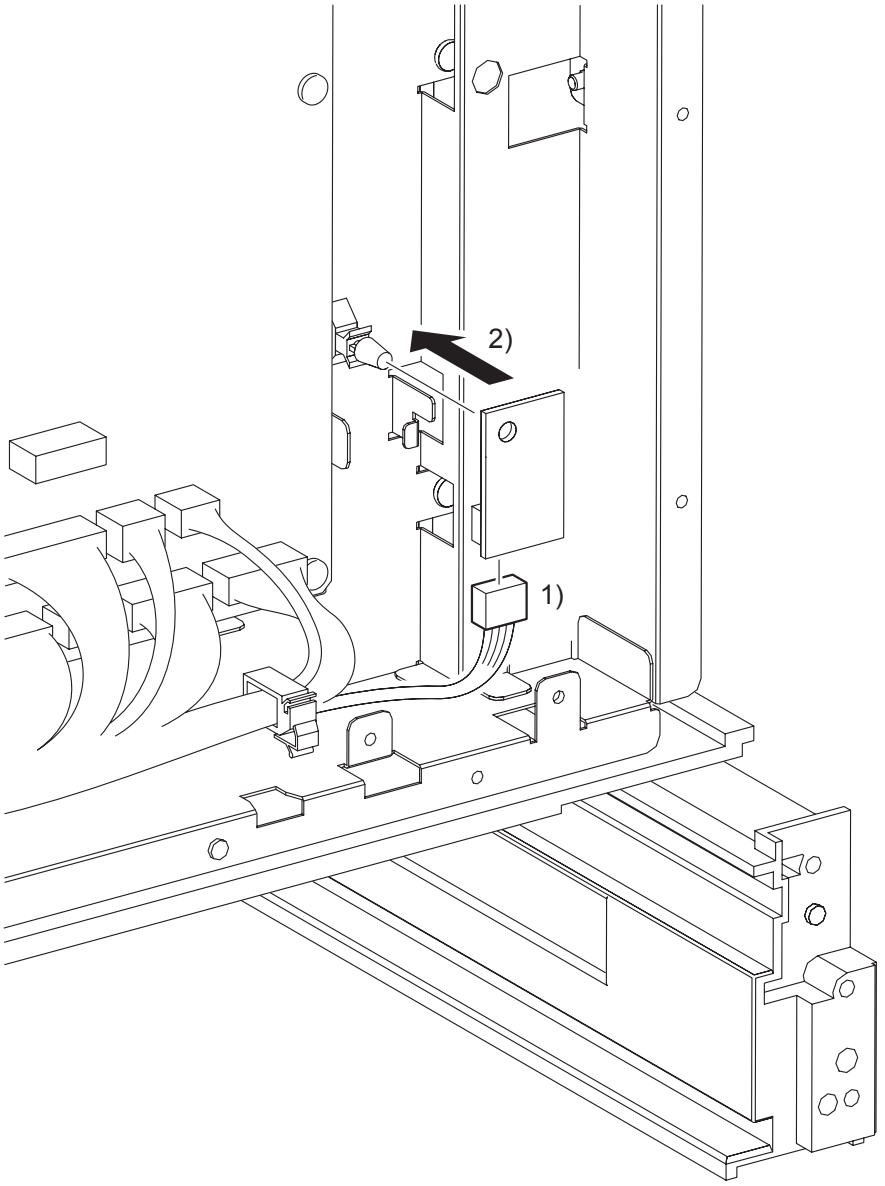
NOTE

When the MACHINE CONTROL UNIT is replaced with a new one, perform the following steps. (After completing all the steps up to Replacement 50.)

4) Plug in the power cord to the outlet, and power on the printer.
5) Perform the diagnostic operation of NVM Load, and write the data into MCU.
6) Turn on the power while pressing the ▶ key, the ◀ key and the [MENU] key on the control panel.
7) Enter the password, push the ▲ key twice and push the ✓ key once. The diagnostic screen comes up.
8) Press the ▼ key several times until "IOT Diag" is displayed. Press the ✓ key once.
9) Press the ▼ key several times until "NVM Settings" is displayed. Press the ✓ key once.
10) Press the ▼ key several times until "LoadNVM from ESS" is displayed. Press the ✓ key once.
11) Press the ✓ key twice, and LoadNVM from ESS is performed.
12) After the LoadNVM from ESS is complete, press the [CANCEL] key several times until "IOT Diag" is displayed.
13) Press the ▼ key several times until "Complete" is displayed.
14) Press the ✓ key three times, and "Ready to Print" is displayed.

Go to the next replacement step:
Replacement 17 SHIELD MCU (PL9.1.42)

Replacement 15 HUMIDITY SENSOR (PL9.1.19)



Zna03101KA

1) Engage the connector (P/J261) of the HUMIDITY SENSOR.
2) Replace the HUMIDITY SENSOR to the printer, and secure with the hook of the SPACER.

Go to the next replacement step:
Replacement 17 SHIELD MCU (PL9.1.42)

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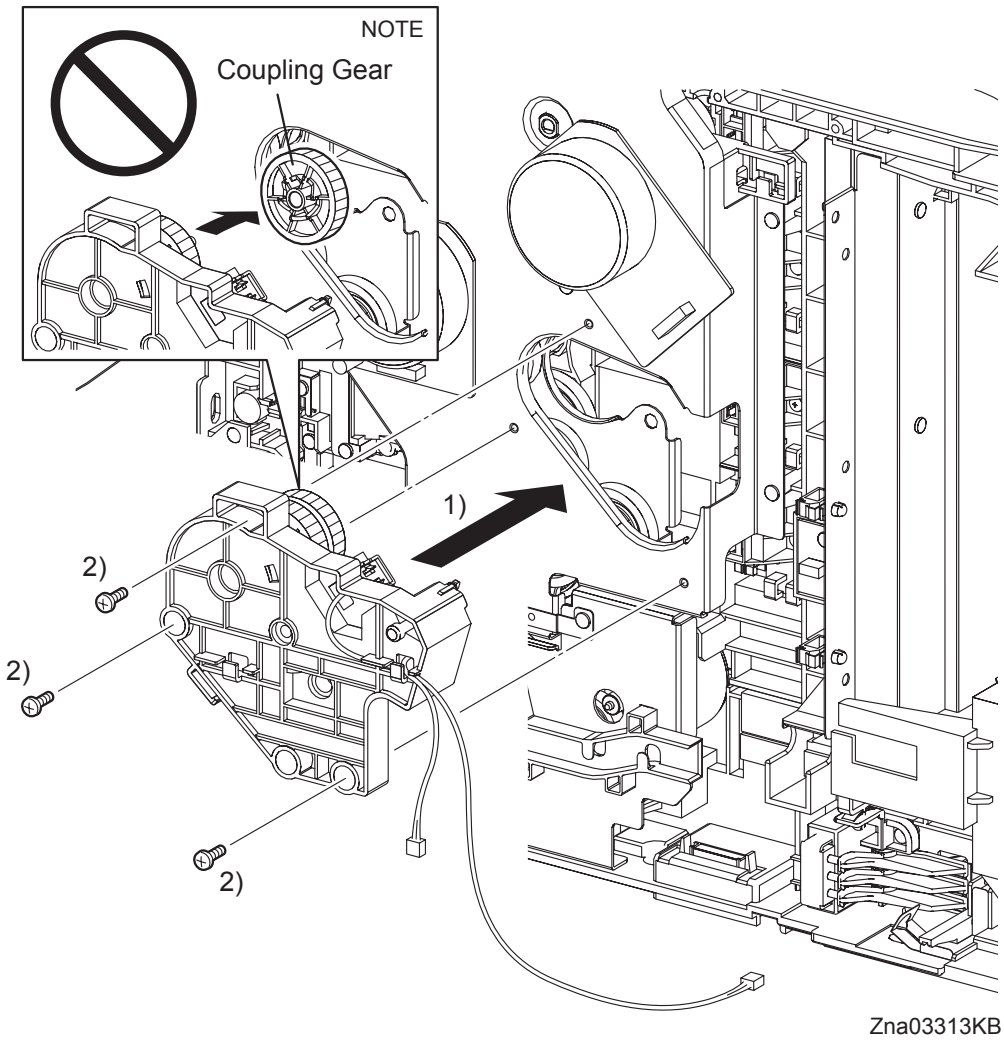
Replacement 16 DRIVE ASSY K (PL8.1.10)



NOTE

When carrying out the work described next procedure, take care not to drop the coupling gear to inside.

1) Replace the DRIVE ASSY K to the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE.
2) Secure the DRIVE ASSY K to the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE using the three screws (silver, 6mm).

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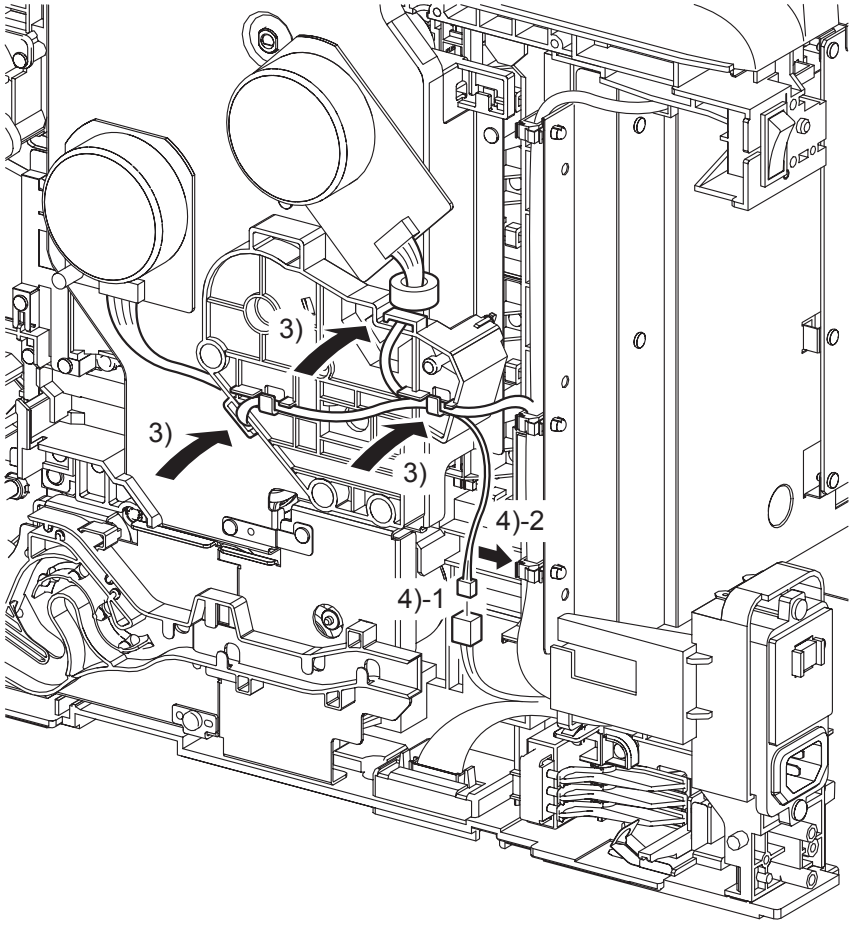
Replacement 16 DRIVE ASSY K (PL8.1.10)



Zna03314KB

3) Route the connecting harness of the Main Motor and the Sub Motor to the hook on the DRIVE ASSY K.
4) Engage the connector (P/J241) of the K Mode Solenoid in the DRIVE ASSY K, and then fix the harness using the clamp.

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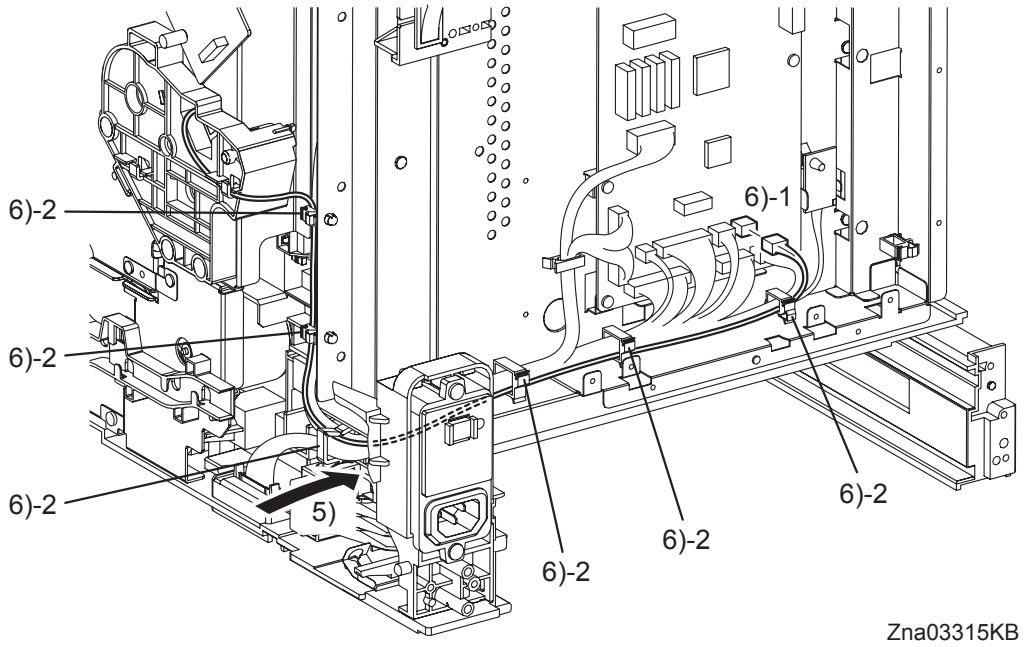
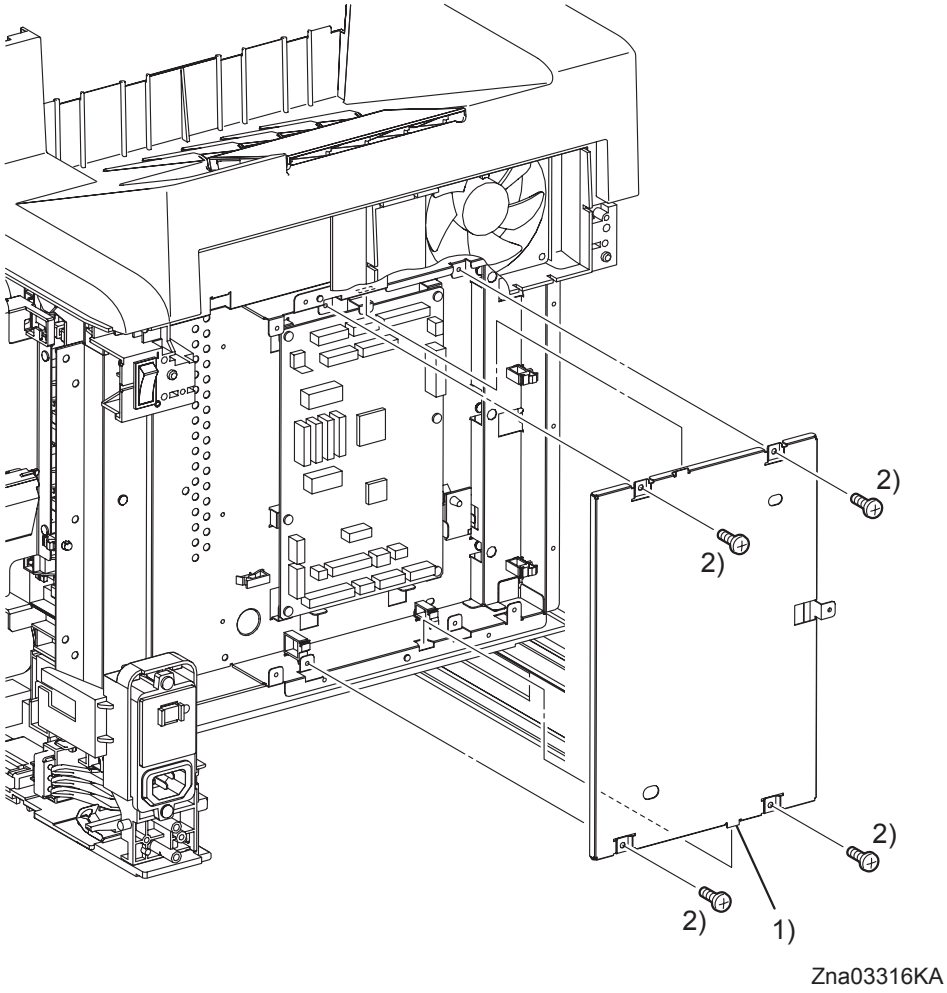
Replacement 16 DRIVE ASSY K (PL8.1.10)



5) Route the harness of the K Mode Sensor in the DRIVE ASSY K into the inside through the hole of the frame.
6) Engage the connector (P/J20) of the K Mode Sensor to the MACHINE CONTROL UNIT, and then fix the harness using the six clamps.

Go to the next replacement step:
Replacement 17 SHIELD MCU (PL9.1.42)

Replacement 17 SHIELD MCU (PL9.1.42)



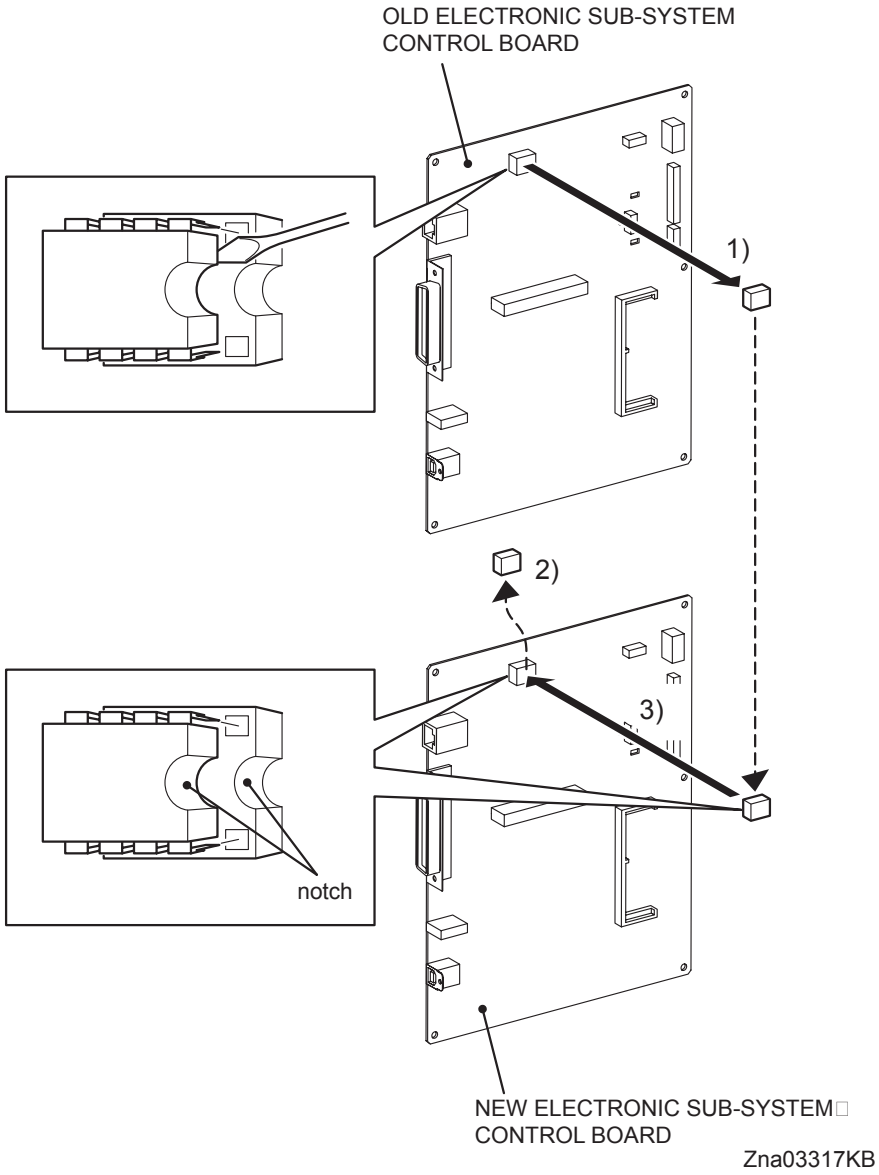
1) Engage the two tabs of the SHIELD MCU to the holes of the SHIELD REAR, and then attach the SHIELD MCU to the printer.
2) Secure the SHIELD MCU to the printer using the four screws (silver, 6mm).

Go to the next replacement step:
Replacement 19 SHIELD ASSY ESS (PL9.1.45)

Replacement 18 ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27)

NOTE

Use a wristband to protect the PWB from electrostatic damage.



NOTE

When the ELECTRONIC SUB-SYSTEM CONTROL BOARD is replaced with a new one, he replacement steps 1) to 3) are required. These steps are not required when no replacement is performed.

NOTE

Do not press the PWB when removing the NVM ROM.

NOTE

Take care not to bend the terminal section of NVM when performing the step described below.

Continues to the next page.

Replacement 18 ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27)

1) Remove the NVM, using a miniature screwdriver or the like, from the IC socket on the old ELECTRONIC SUB-SYSTEM CONTROL BOARD that was removed from the printer.
2) Remove the NVM from the IC socket on the new ELECTRONIC SUB-SYSTEM CONTROL BOARD using a miniature screwdriver or the like.

NOTE

Do not use the NVM removed from the new ELECTRONIC SUB-SYSTEM CONTROL BOARD.

NOTE

Ensure that the orientation of the NVM is correct when performing the following step.

3) Install the NVM that was removed from old ELECTRONIC SUB-SYSTEM CONTROL BOARD on the IC socket of the new ELECTRONIC SUB-SYSTEM CONTROL BOARD with its notch aligned with the notch in the IC socket.

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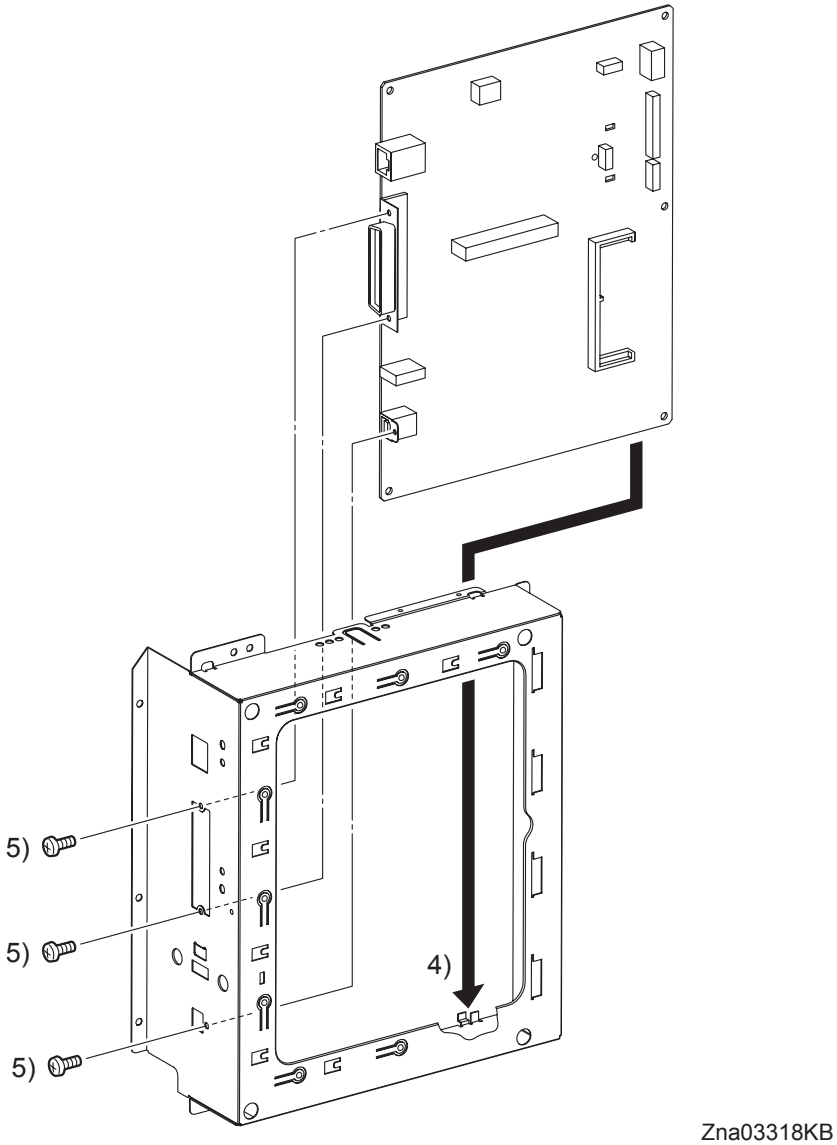
Replacement 18 ELECTRONIC SUB-SYSTEM CONTROL BOARD (PL9.1.27)



4) Replace the SHIELD ESS to the ELECTRONIC SUB-SYSTEM CONTROL BOARD.
5) Secure the SHIELD ESS to the connectors of the ELECTRONIC SUB-SYSTEM CONTROL BOARD with the screws.

Go to the next replacement step:
Replacement 19 SHIELD ASSY ESS (PL9.1.45)

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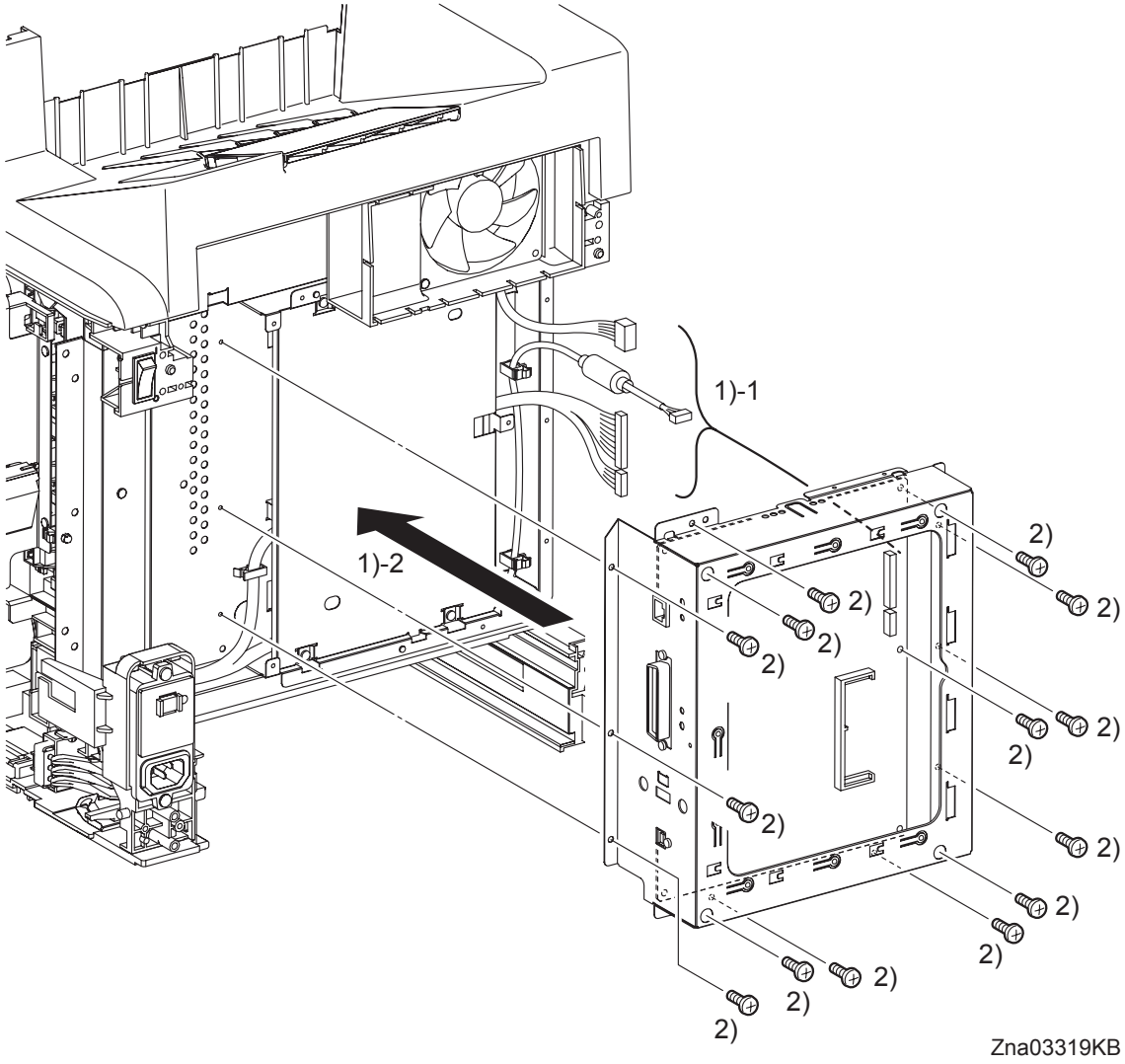
Replacement 19 SHIELD ASSY ESS (PL9.1.45)



NOTE

When performing the step described below, ensure that the harness will not be caught between the printer and the SHIELD ASSY ESS.

1) Route the four connectors to between the ELECTRONIC SUB-SYSTEM CONTROL BOARD and the SHIELD ESS, and then attach the SHIELD ASSY ESS to the printer.
2) Secure the SHIELD ASSY ESS to the printer using the fourteen screws (silver, 6mm).

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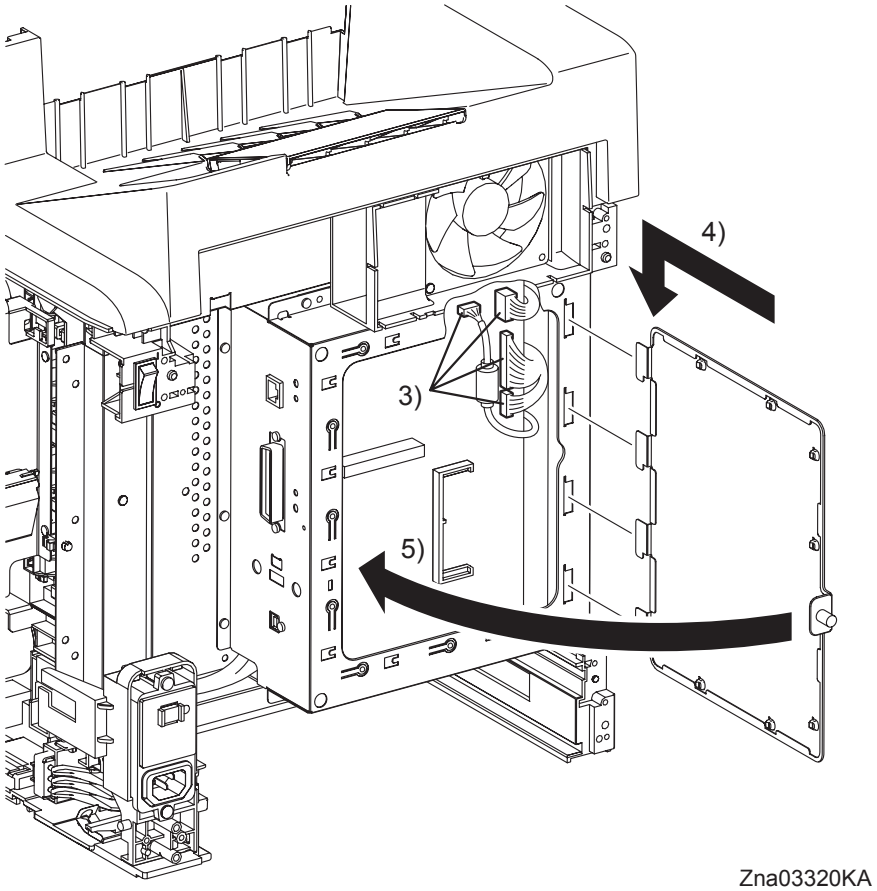
Replacement 19 SHIELD ASSY ESS (PL9.1.45)



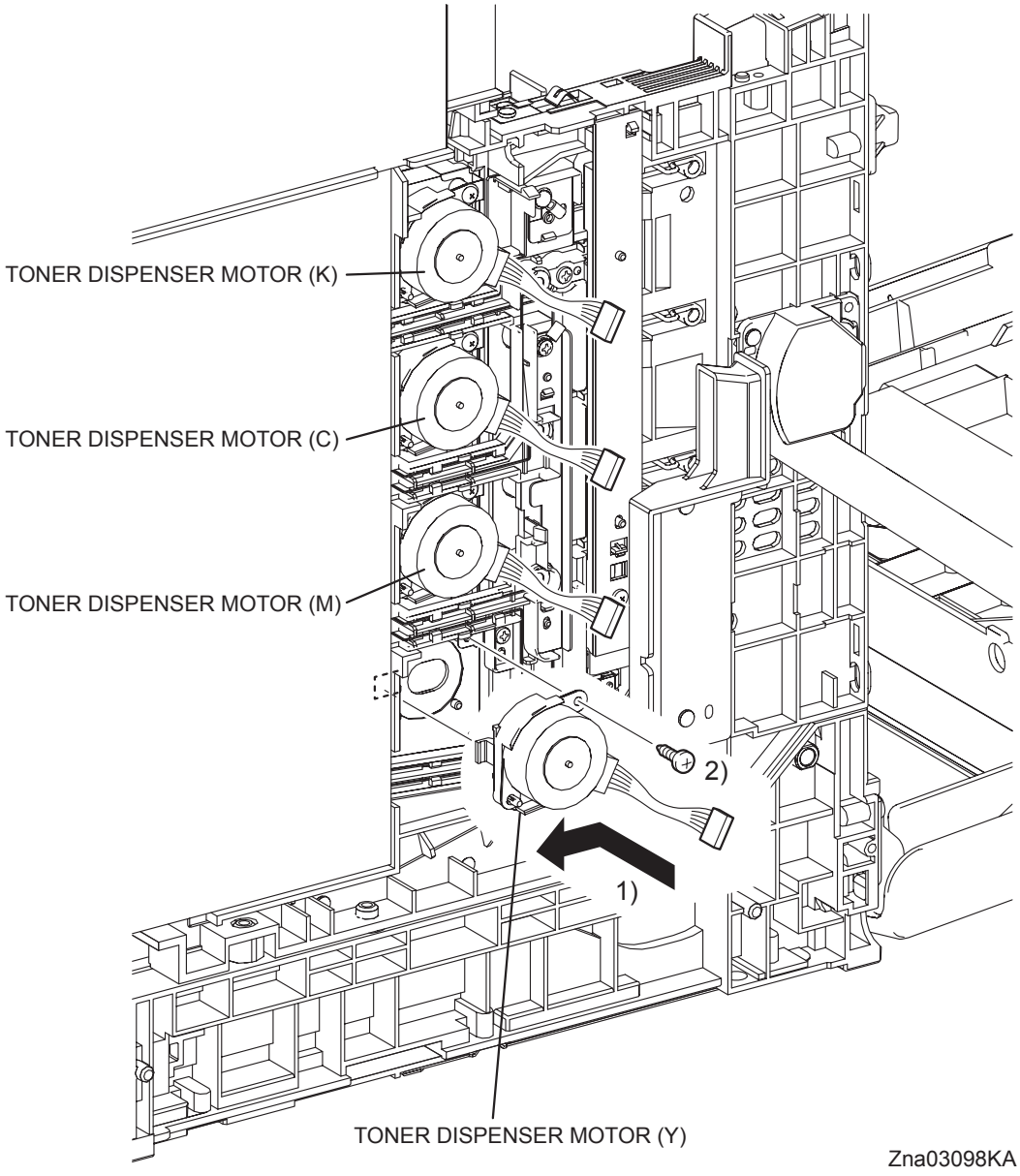
3) Engage all the connectors of the ELECTRONIC SUB-SYSTEM CONTROL BOARD.
4) Engage the four tabs of SHIELD WINDOW to the holes of the SHIELD ESS with opening the SHIELD WINDOW.
5) Close the SHIELD WINDOW and secure the SCREW KNURLING.

Go to the next replacement step:
Replacement 24 LEFT COVER (PL1.1.7)

Replacement 20 TONER DISPENSER MOTOR (PL5.1.12)

NOTE

Described below is the replacement procedure common among TONER DISPENSER MOTORs (C), (M), (Y), and (K).



1) Replace the TONER DISPENSER MOTOR to the printer by mating the tab of the TONER DISPENSER MOTOR with the hole on the printer and moving it slightly backward.
2) Secure the TONER DISPENSER MOTOR to the printer using the one screw (silver, tap, 10mm).

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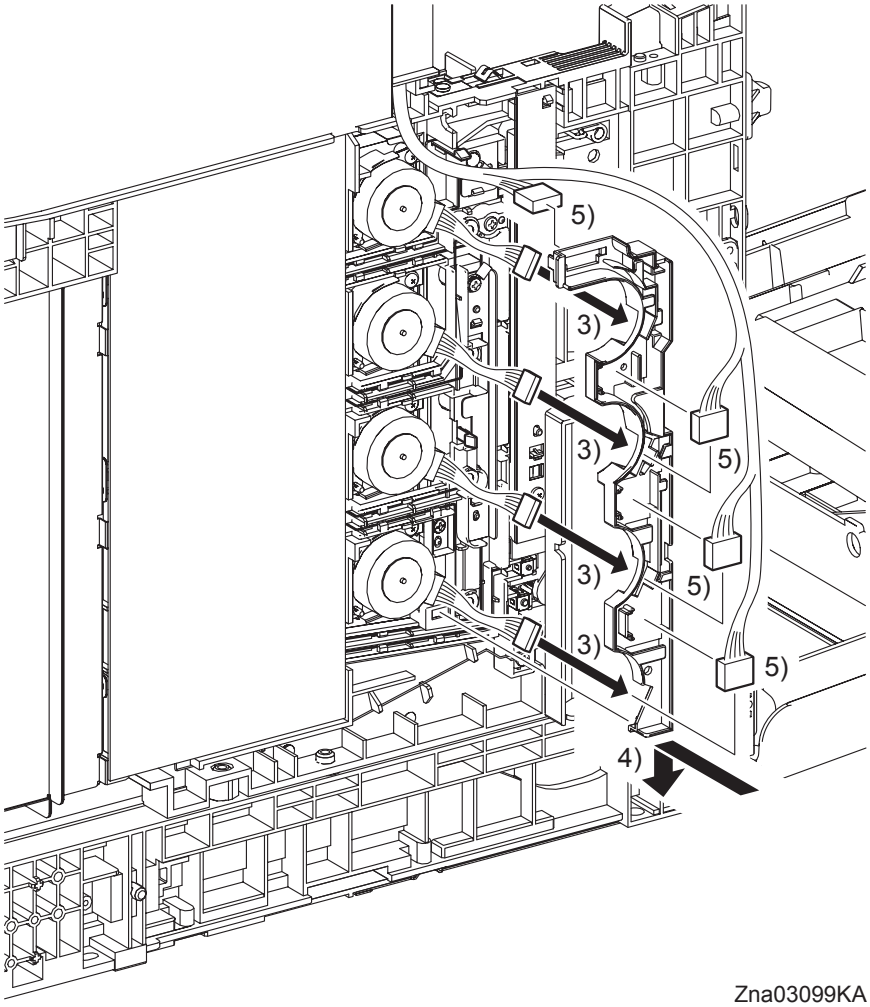
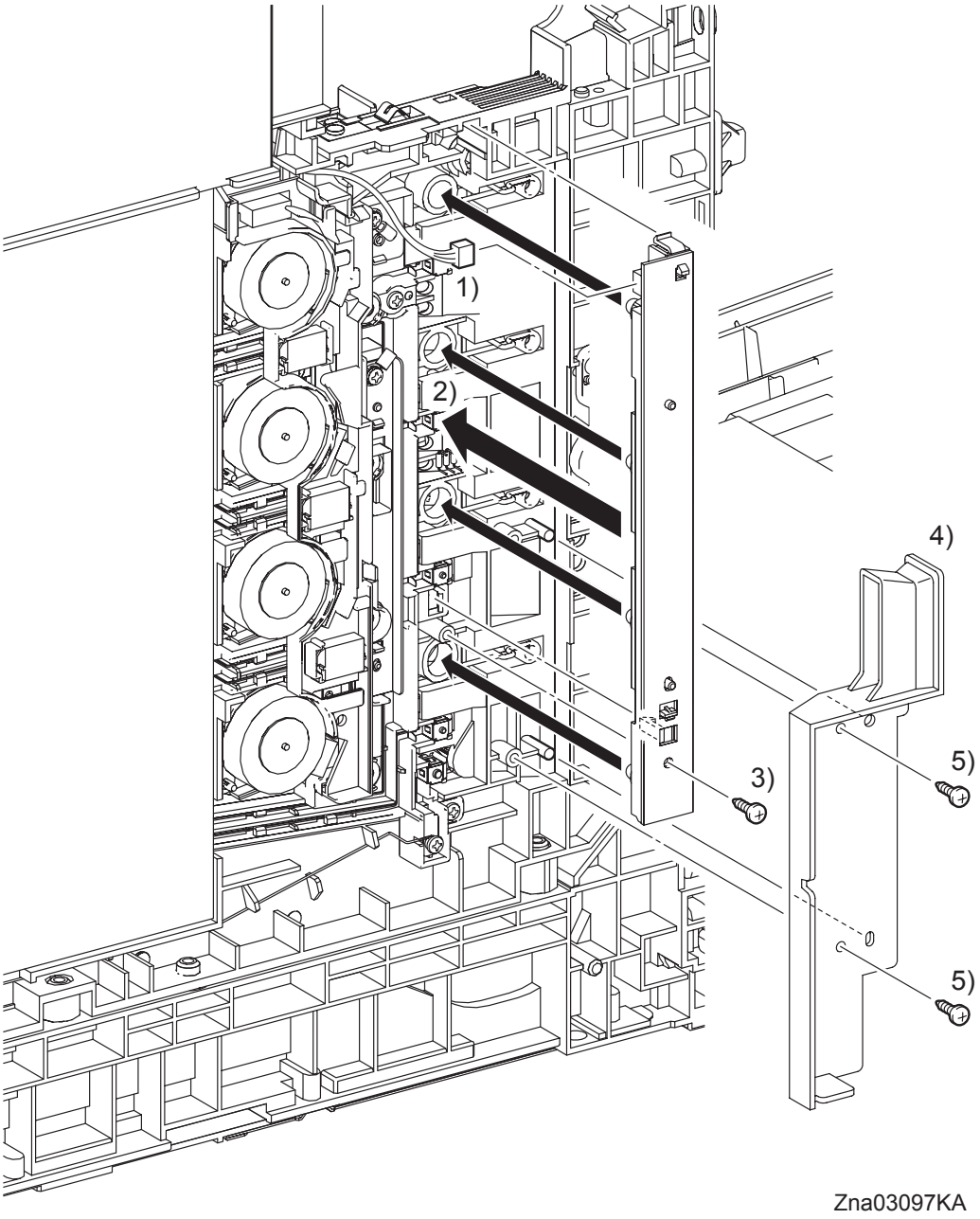
Replacement 20 TONER DISPENSER MOTOR (PL5.1.12)



3) Pass the four sets of connectors of the TONER DISPENSER MOTOR through the hole of the DUCT HARNESS MOT.
4) Mate the tab of the DUCT HARNESS MOT with the hole on the printer, and secure the DUCT HARNESS MOT with the two hooks on the printer.
5) Engage the four sets of connectors of the TONER DISPENSER MOTOR and route the harness along the DUCT HARNESS MOT.

Go to the next replacement step:
Replacement 24 LEFT COVER (PL1.1.7)

Replacement 21 LED ASSEMBLY (PL5.1.15)



1) Engage the connector (P/J141) of the LED ASSEMBLY.
2) Mate the four LEDs on the LED ASSEMBLY with the holes on the printer, and then secure the LED ASSEMBLY at the two hooks.
3) Fix the LED ASSEMBLY to the printer using the one screw (silver, tap, 10mm).
4) Replace the DUCT SID L by mating the two holes on the DUCT SIDE L with the bosses on the printer.
5) Secure the DUCT SIDE L to the printer using the two screws (silver, tap, 10mm).

Go to the next replacement step:
Replacement 24 LEFT COVER (PL1.1.7)

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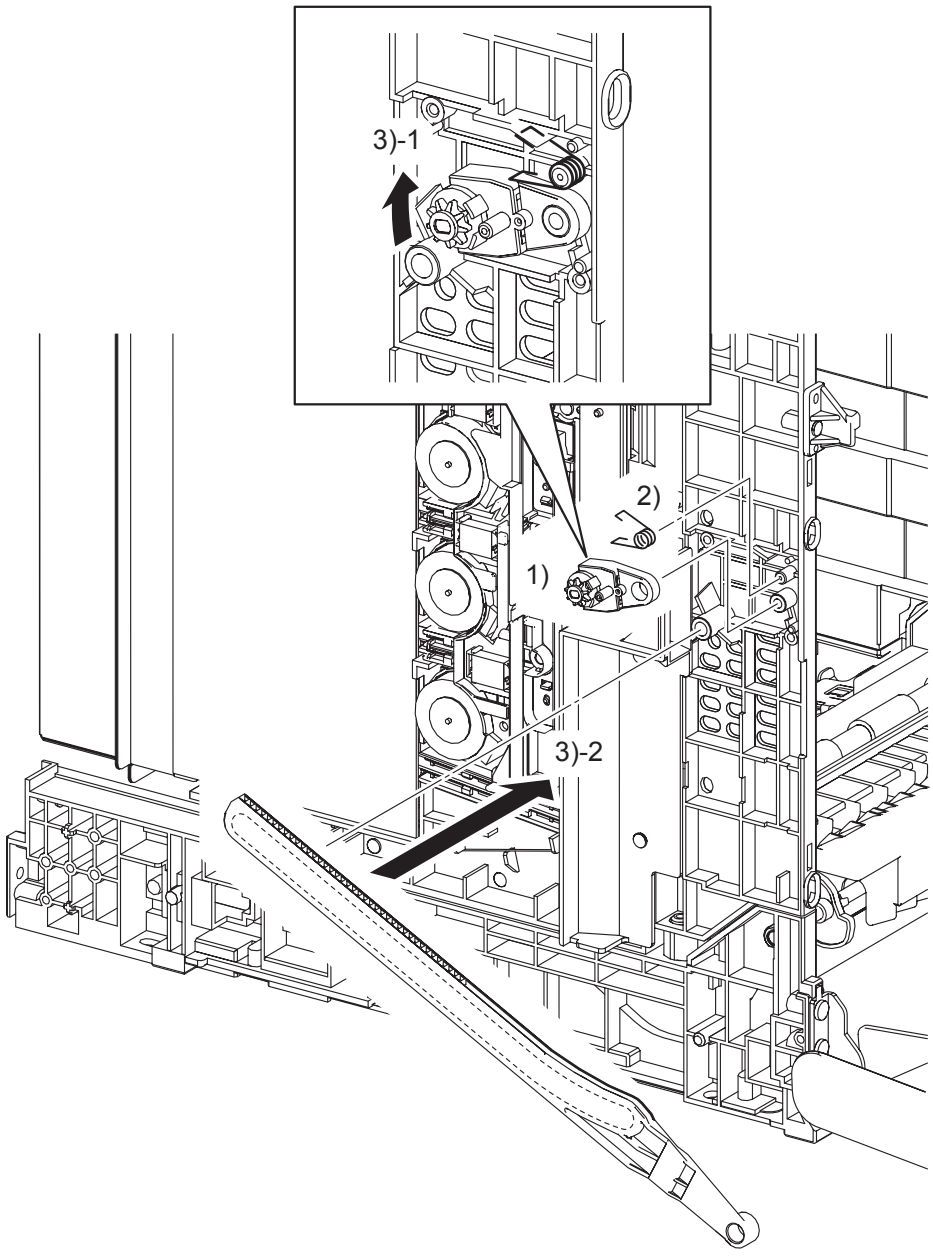
Replacement 22 ARM ASSEMBLY (PL7.1.98)



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1) Replace the HOLDER DAMPER to the printer together with the DAMPER OIL.
2) Replace the SPRING SUPPORT to the printer
3) Replace the LINK L by mating the backside groove on the LINK L with the boss on the printer and pulling the DAMPER OIL slightly upward.

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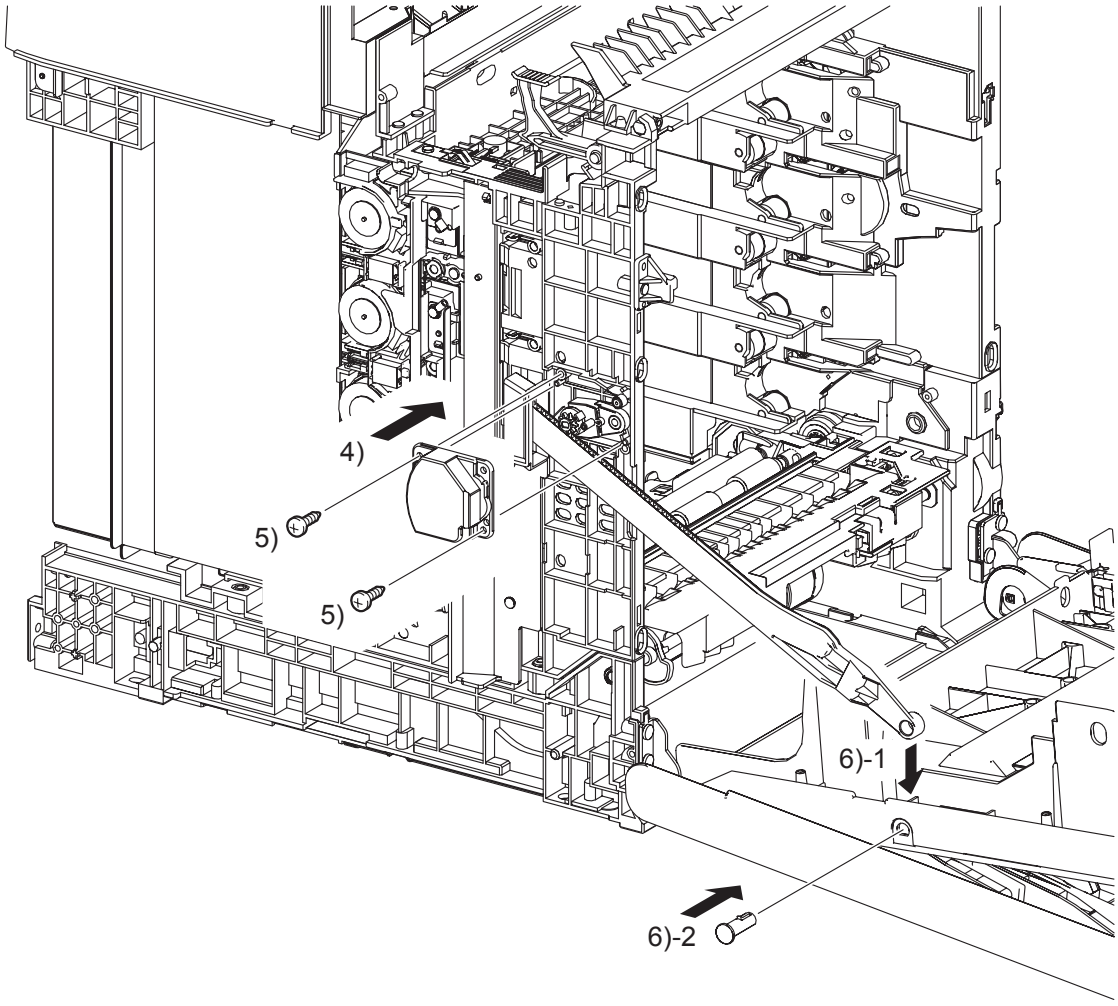
Replacement 22 ARM ASSEMBLY (PL7.1.98)



4) Replace the SUPPORT LINK L by mating the two holes of the SUPPORT LINK L with the bosses on the printer.
5) Secure the SUPPORT LINK L using the two screws (silver, tap, 10mm).
6) Mate the fitting hole on the LINK L with the left side fitting hole on the FRONT COVER. Insert the SHAFT PIVOT and secure with the hook.

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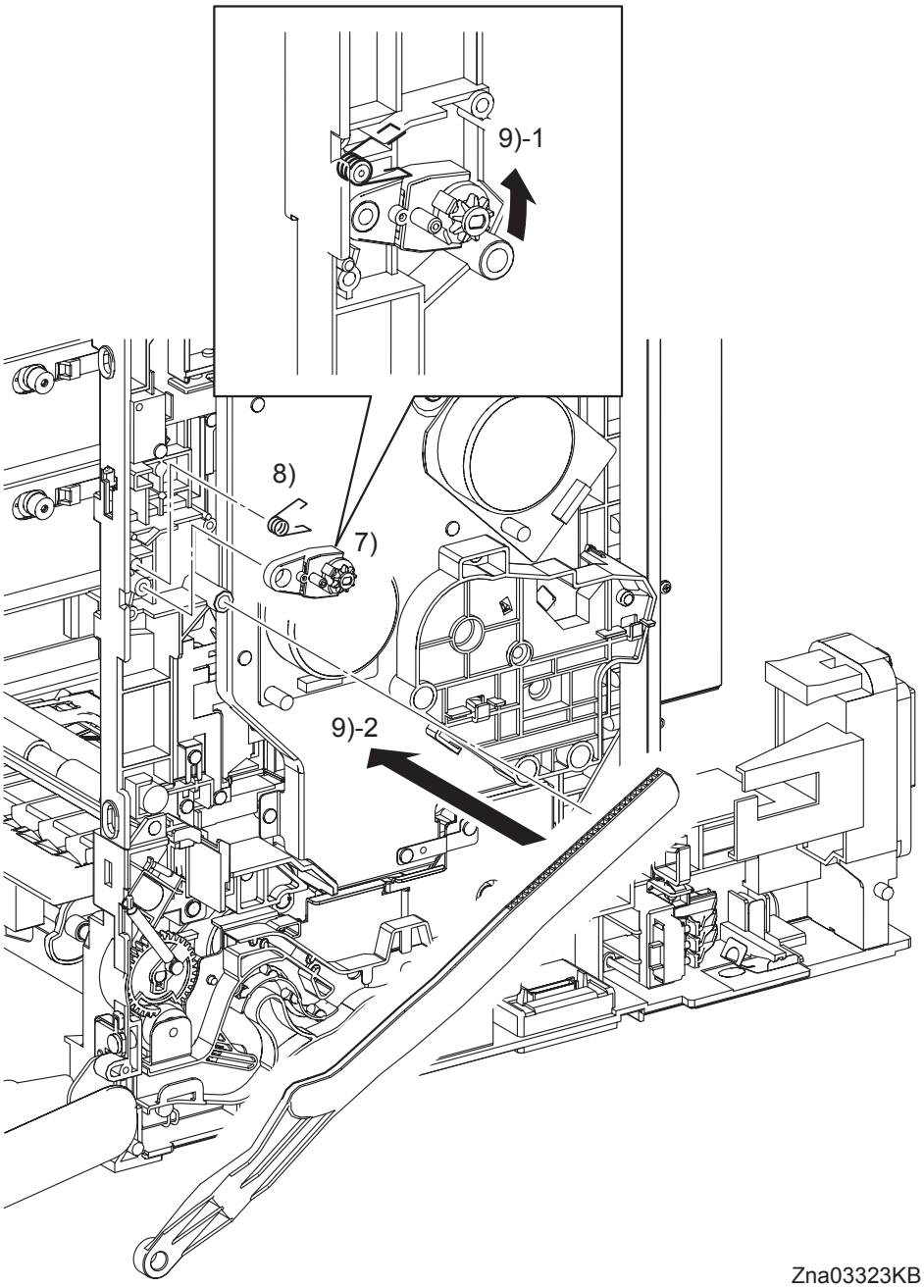
Replacement 22 ARM ASSEMBLY (PL7.1.98)



7) Replace the HOLDER DAMPER to the printer together with the DAMPER OIL.
8) Replace the SPRING SUPPORT to the printer.
9) Replace the LINK R by mating the backside groove on the LINK R with the boss on the printer and then pulling the DAMPER OIL slightly upward.

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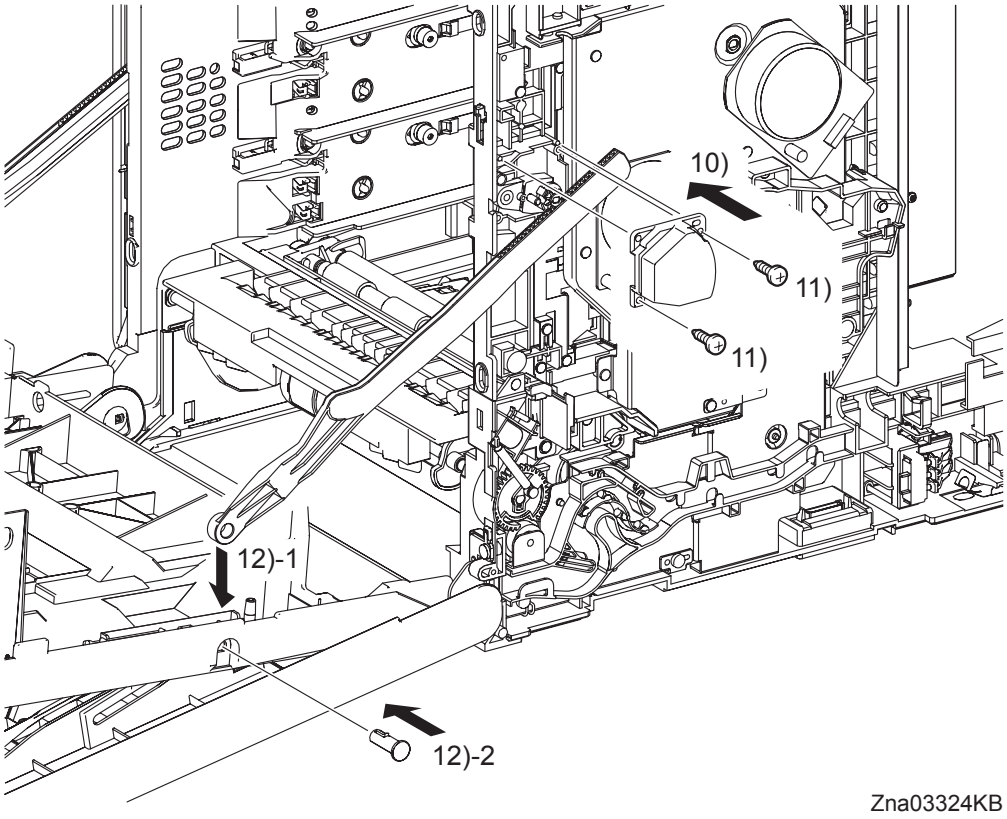
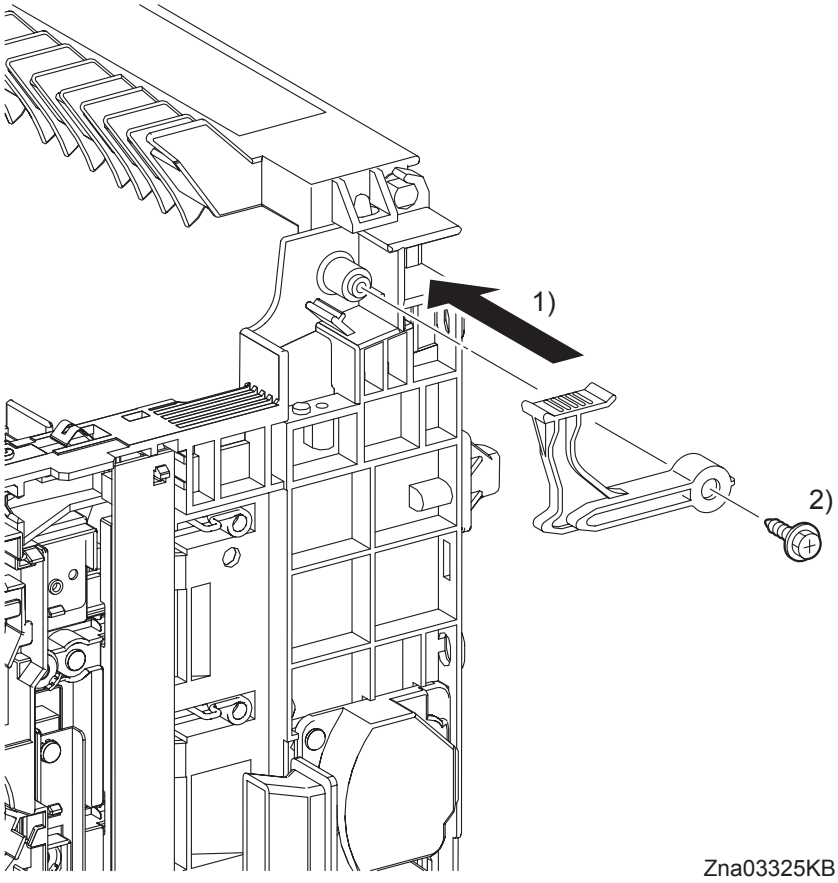
Replacement 22 ARM ASSEMBLY (PL7.1.98)



10) Replace the SUPPORT LINK R by mating the two holes on the SUPPORT LINK R with the bosses on the printer.
11) Secure the SUPPORT LINK R to the printer using the two screws (silver, tap, 10mm).
12) Mate the fitting hole on the LINK R with the right side fitting hole on the FRONT COVER. Insert the SHAFT PIVOT and secure using the hook.

Go to the next replacement step:
Replacement 24 LEFT COVER (PL1.1.7)

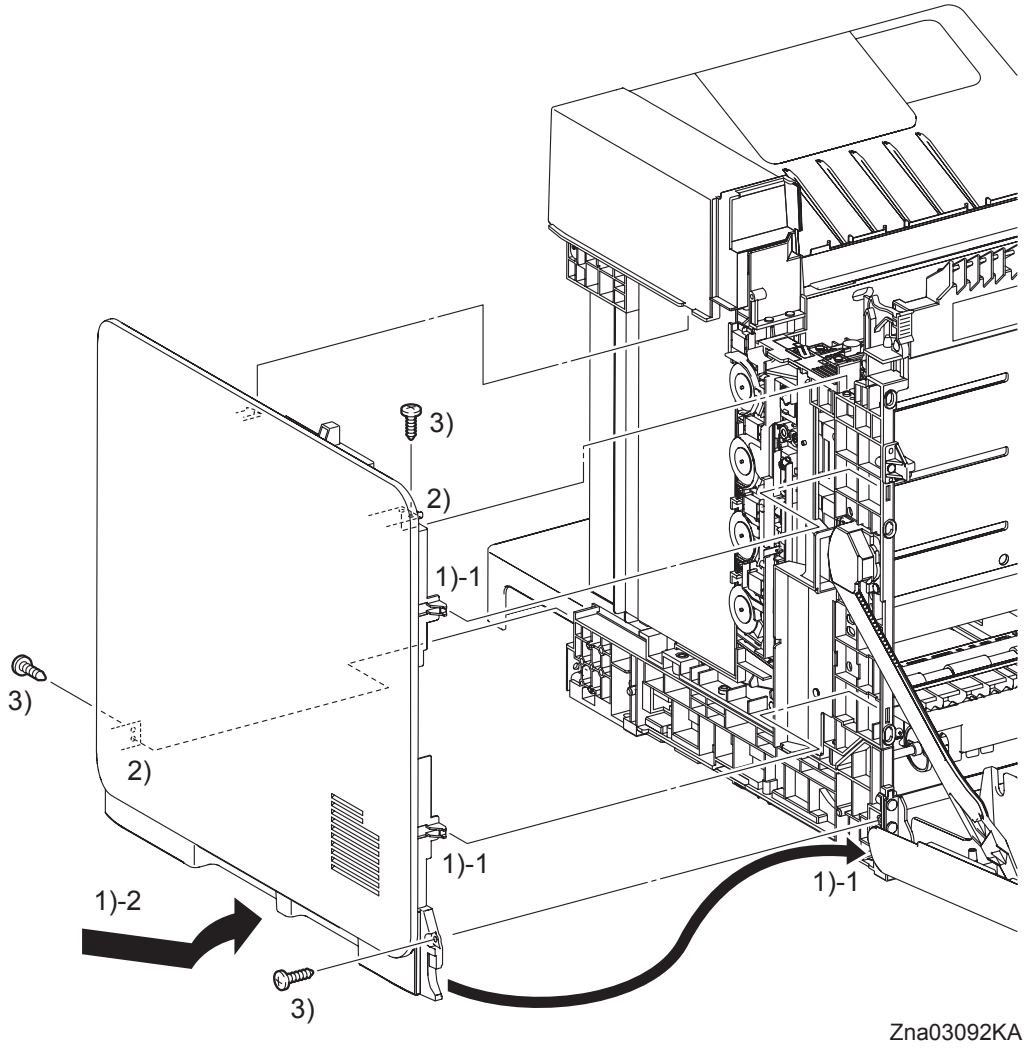
Replacement 23 LEVER FUSER AD (PL6.1.19)



1) Attach the LEVER FUSER AD to the printer.
2) Secure the LEVER FUSER AD to the printer using the one screw (silver, with flange, tap, 10mm).

Go to the next replacement step:
Replacement 24 LEFT COVER (PL1.1.7)

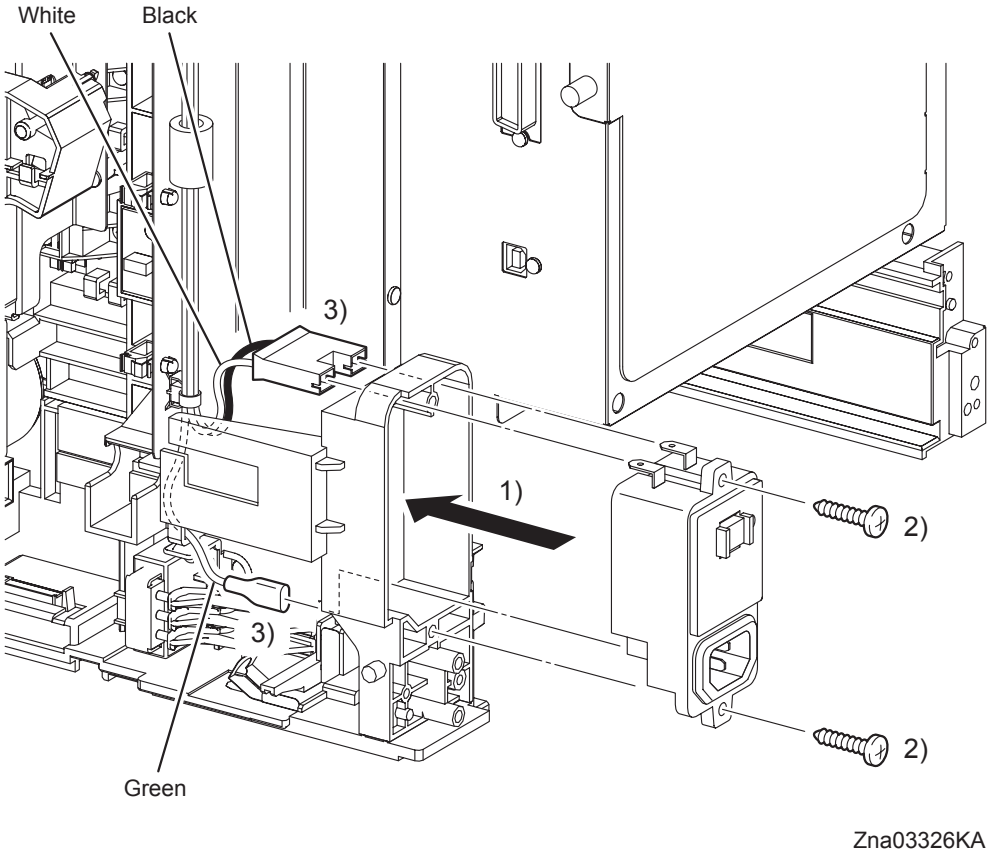
Replacement 24 LEFT COVER (PL1.1.7)



1) Insert the front side of the LEFT COVER between the FRONT COVER and the printer, and mate the two front side hooks of the LEFT COVER with the printer.
2) Mate the holes on the LEFT COVER with the two bosses on the printer.
3) Secure the LEFT COVER to the printer using the three screws (silver, tap, 10mm).

Next Replacement steps.
Replacement 33 RIGHT COVER (PL1.1.6) or Replacement 34 REAR COVER (PL1.1.4)

Replacement 25 BREAKER GFI INLET (PL9.1.43)



1) Attach the BREAKER GFI INLET to the printer.
2) Secure the BREAKER GFI INLET to the printer using the two screws (silver, tap, 16mm).

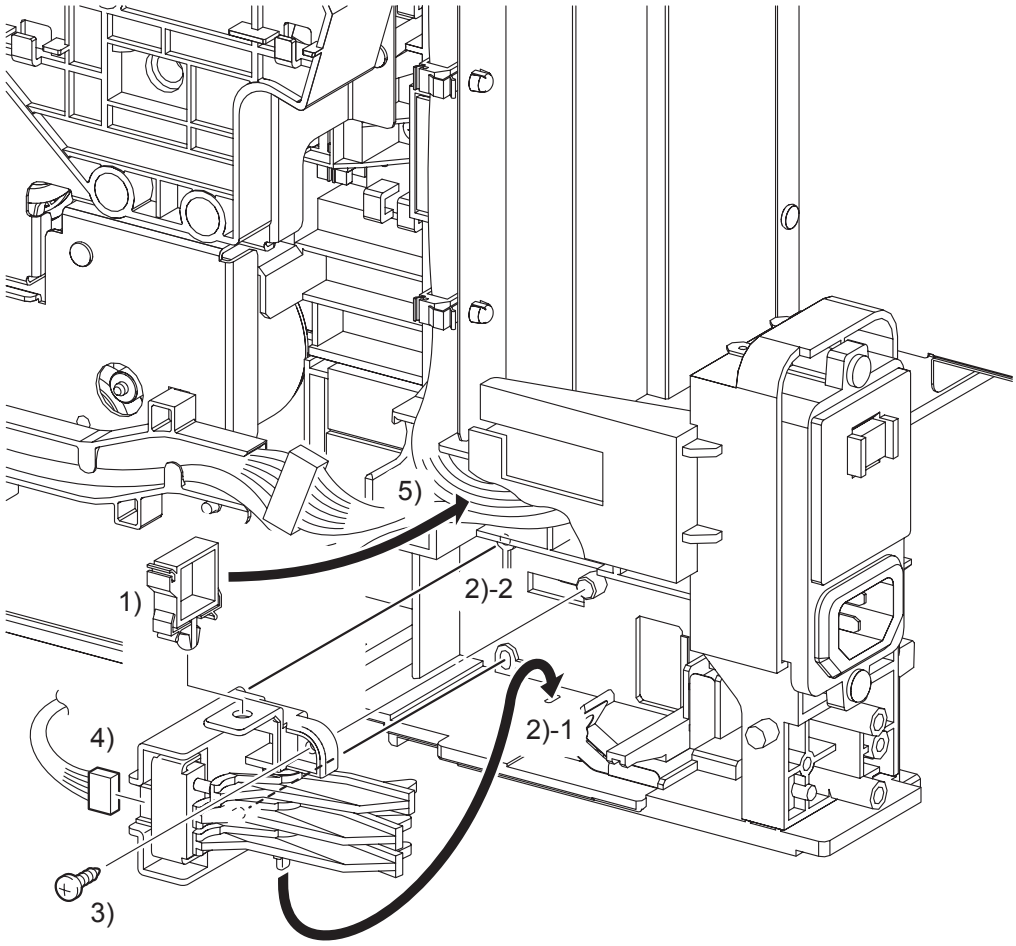
NOTE

When performing the step describe below, do not confuse the connector fitting position.

3) Engage the connector (P/J482) and the FASTON terminal (FS483) of the BREAKER GFI INLET.

Next Replacement steps.
Replacement 33 RIGHT COVER (PL1.1.6)

Replacement 26 SIZE SWITCH ASSEMBLY (PL7.1.18)



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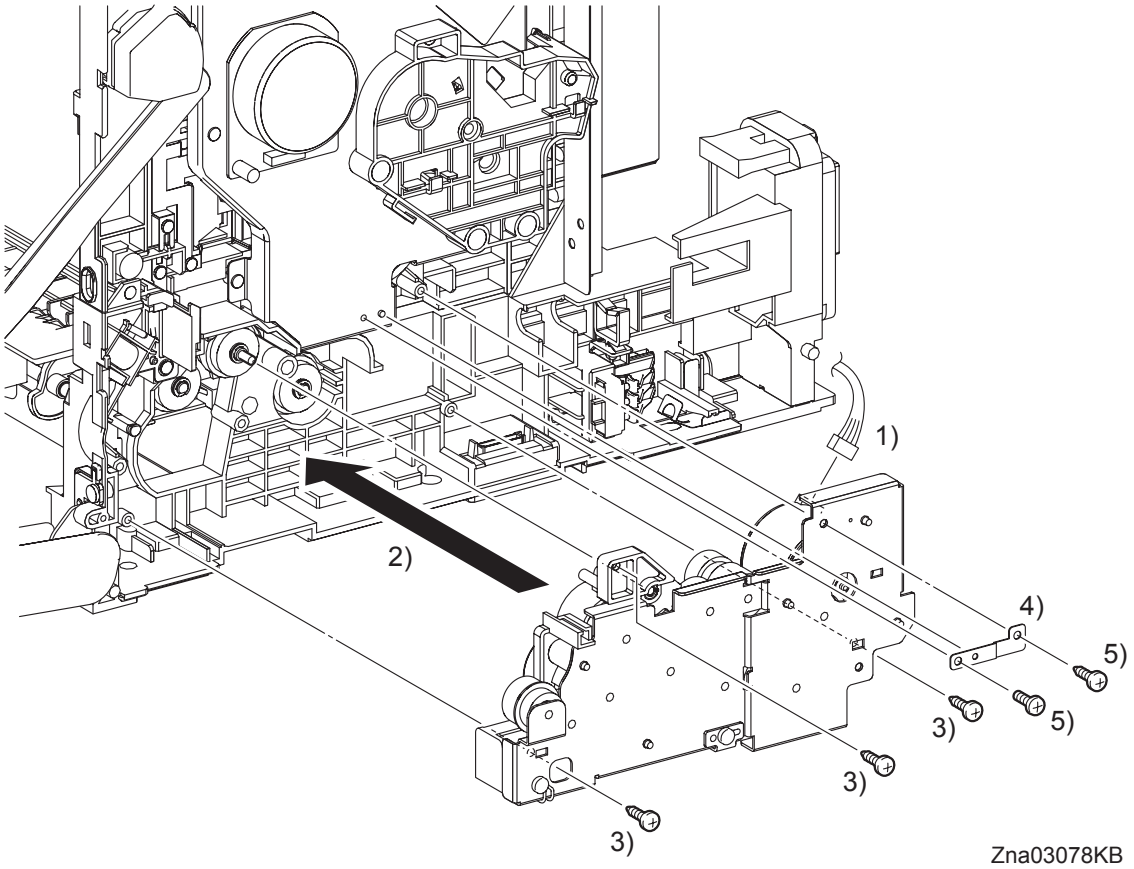
1) Replace the clamp to the SIZE SWITCH ASSEMBLY.
2) Insert the backside tab of the SIZE SWITCH ASSEMBLY into the hole on the printer and insert the two bosses of the SIZE SWITCH ASSEMBLY into the holes on the printer.
3) Secure the SIZE SWITCH ASSEMBLY to the printer using the one screw (silver, tap, 10mm).
4) Engage the connector (P/J291) of the SIZE SWITCH ASSEMBLY.
5) Secure the harness using the clamp of the SIZE SWITCH ASSEMBLY.

Go to the next replacement step:
Replacement 33 RIGHT COVER (PL1.1.6)

Replacement 27 FEED DRIVE ASSEMBLY (PL8.1.7)



1) Engage the connector (P/J251) of the FEED DRIVE ASSEMBLY.
2) Engage the BEARING of the FEED DRIVE ASSEMBLY with the shaft of the ROLL REGI RUBBER (PL3.2.7), and then attach the FEED DRIVE ASSEMBLY to the printer.
3) Secure the FEED DRIVE ASSEMBLY to the printer using the three screws (silver, tap, 10mm).
4) Mate the one hole on the PLATE EARTH DRV MP with the boss on the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE.
5) Secure the PLATE EARTH DRV MP to the PHOTOCONDUCTOR (PC) / DEVELOPER (DEV) DRIVE and FEED DRIVE ASSEMBLY using the one screw (silver, 6mm) and the one screw (silver, tap, 10mm).

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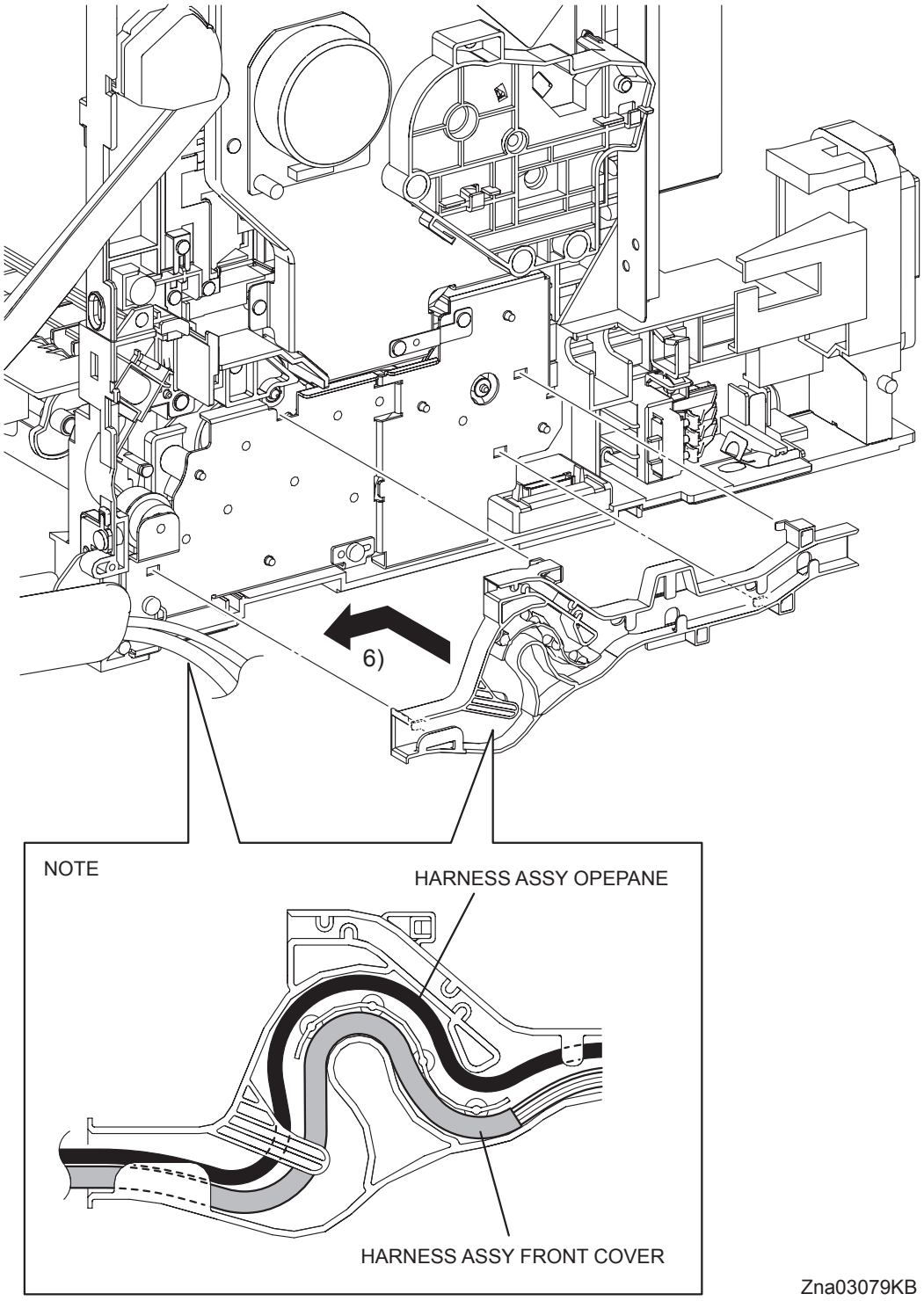
Replacement 27 FEED DRIVE ASSEMBLY (PL8.1.7)



6) Mate the four hooks on the DUCT ASSY DRV PH with the holes on the FEED DRIVE ASSY. Secure the DUCT ASSY DRV PH by moving it frontward allowing the hooks to lock into place.

NOTE When performing the step below, route the HARNESS ASSY OPEPANE over the HARNESS ASSY FRONT COVER.

7) Route all the harnesses along the DUCT ASSY DRV PH.

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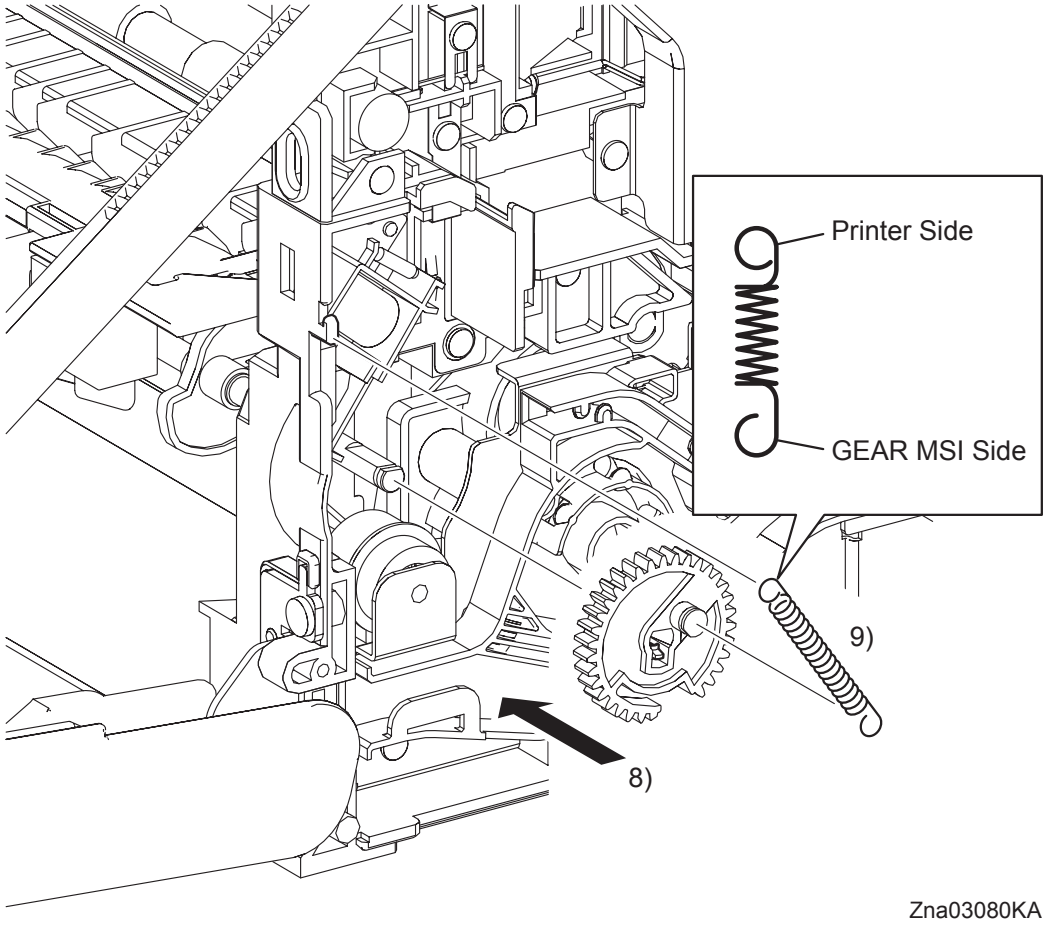
Replacement 27 FEED DRIVE ASSEMBLY (PL8.1.7)



NOTE When performing the step described below, turn the flat surface of the SHAFT MSI face upward for ease of work.

8) Replace the GEAR MSI to the SHAFT MSI and lock the hook of the GEAR MSI into the groove of the SHAFT MSI.

NOTE When performing the step described below, pay attention to the orientation of the SPRING FEED MSI. Ensure that the longer J-shaped hook of the SPRING FEED MSI is anchored to the GEAR MSI.

9) Anchor the SPRING FEED MSI to the GEAR MSI and the printer.

Go to the next replacement step:
Replacement 33 RIGHT COVER (PL1.1.6)

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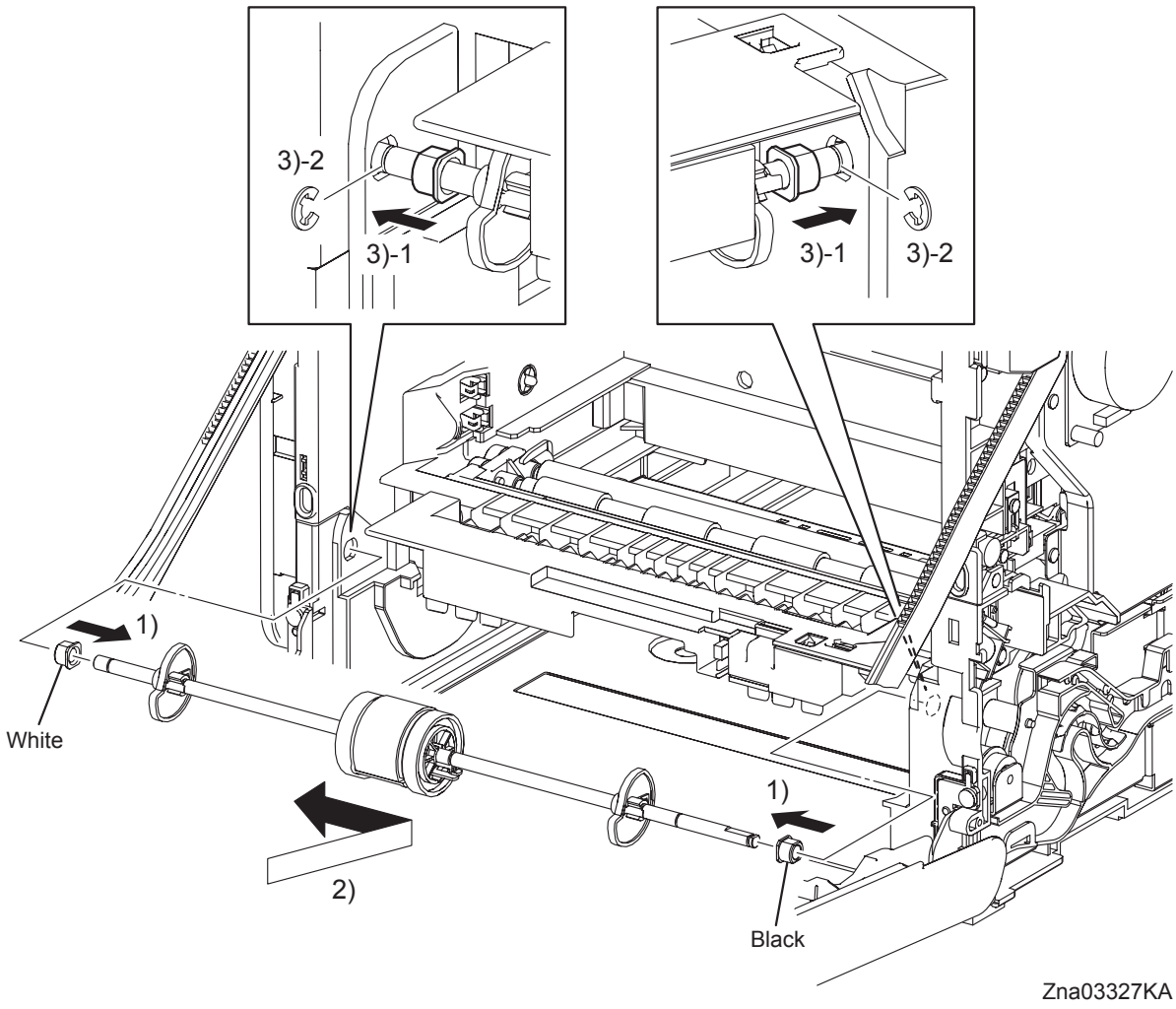
Replacement 28 ROLL ASSY MSI (PL3.1.8)



NOTE

When performing the step described below, ensure that the color of each BEARING is correct.
The color of the right BEARING is black.
The color of the left BEARING is white.

1) Attach the BEARING EARTH and the BEARING to the ROLL ASSY MSI.
2) Replace the ROLL ASSY MSI to the printer by inserting the right and left ends of the ROLL ASSY MSI into the holes on the printer.
3) Slide the left and right of the BEARINGs outward into the holes on the printer, and secure using the e-rings.

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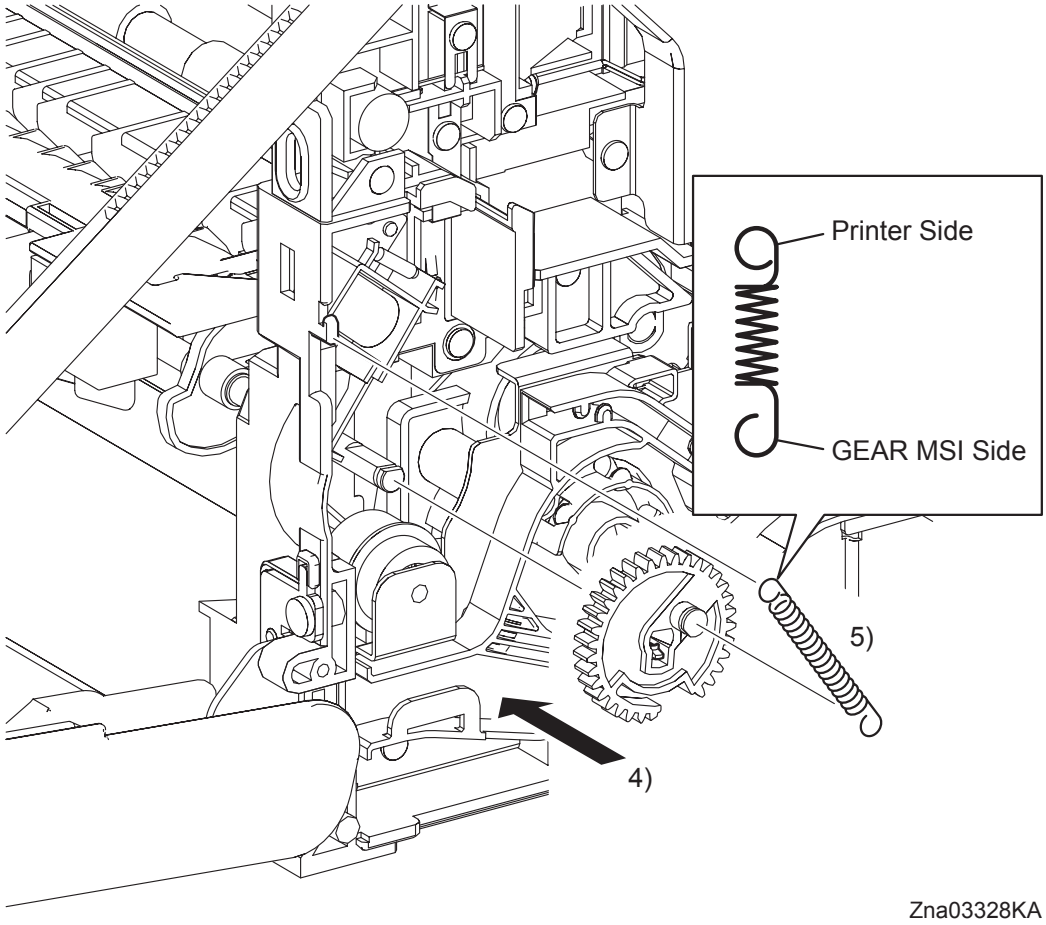
Replacement 28 ROLL ASSY MSI (PL3.1.8)



NOTE

When performing the step described below, turn the flat surface of the SHAFT MSI face upward for ease of work.

4) Replace the GEAR MSI to the SHAFT MSI and lock the hook of the GEAR MSI into the groove of the SHAFT MSI.

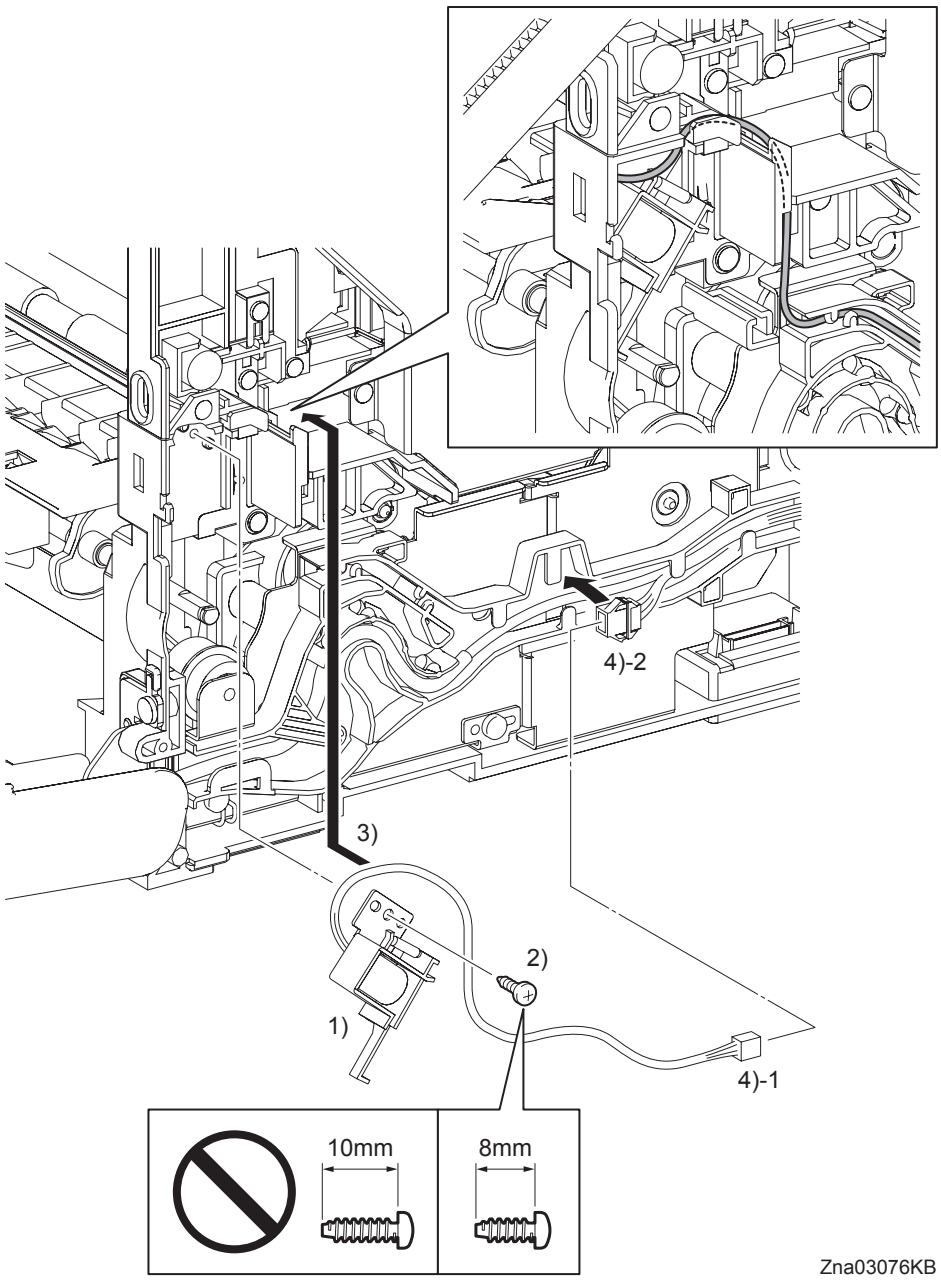
NOTE

When performing the step described below, pay attention to the orientation of the SPRING FEED MSI. Ensure that the longer J-shaped hook of the SPRING FEED MSI is anchored to the GEAR MSI.

5) Anchor the SPRING FEED MSI to the GEAR MSI and the printer.

Go to the next replacement step:
Replacement 33 RIGHT COVER (PL1.1.6)

Replacement 29 MPF FEED SOLENOID (PL3.1.98)



1) Replace the MPF FEED SOLENOID to the printer by mating the two holes on the MPF FEED SOLENOID with the bosses on the printer.

NOTE
Ensure that 8mm screws are used to secure the MPF FEED SOLENOID. Use of 10mm screws will damage the frame.

2) Secure the MPF FEED SOLENOID to the printer using the one screw (silver, tap, 8mm).
3) Route the harness of the MPF FEED SOLENOID to the DUCT ASSY DRV PH.

NOTE
The harness color of the MPF FEED SOLENOID (gray) does not match that of the printer (yellow).

4) Engage the connector (P/J234) of the MPF FEED SOLENOID.

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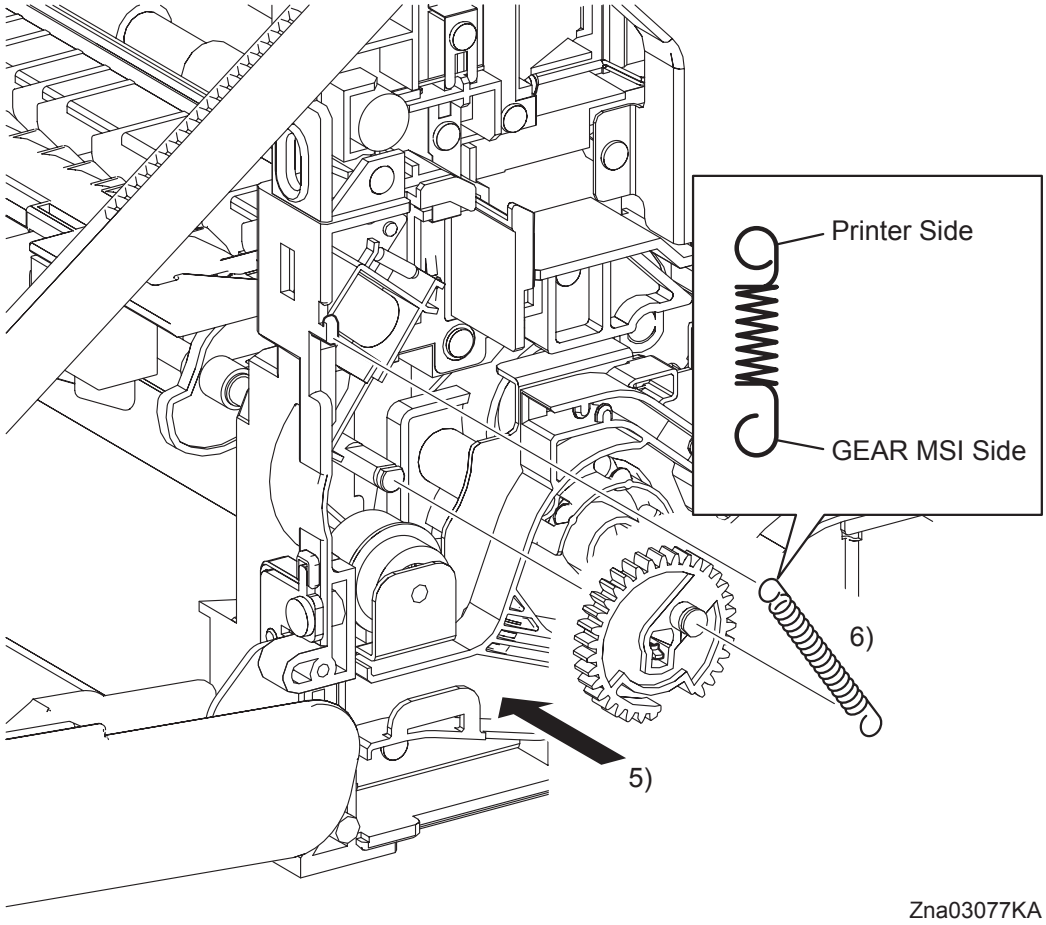
Replacement 29 MPF FEED SOLENOID (PL3.1.98)



NOTE When carrying out the work shown below, it is easier to put the D-cut surface of the SHAFT MSI on the top.

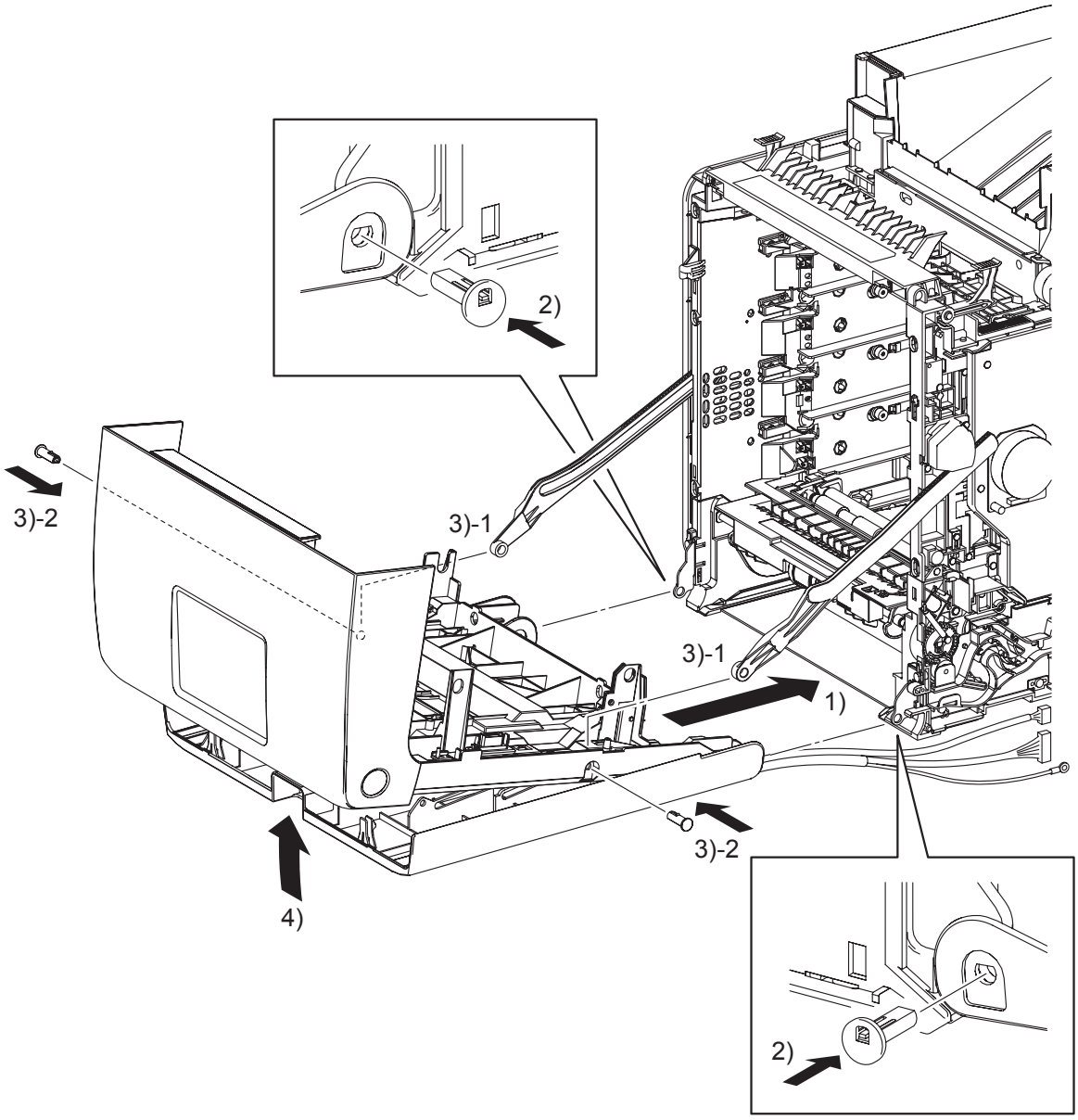
5) Replace the GEAR MSI to the SHAFT MSI and lock the hook on the GEAR MSI into the groove on the SHAFT MSI.

NOTE When carrying out the work shown below, pay attention to attach the SPRING FEED MSI in the right direction.
Attach the hyperelliptic side of the SPRING FEED MSI to the GEAR MSI.

6) Anchor the SPRING FEED MSI to the printer and GEAR MSI.

Go to the next replacement step:
Replacement 33 RIGHT COVER (PL1.1.6)

Replacement 30 FRONT COVER (PL1.2.98)



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1) Align the left and right side holes on the FRONT COVER and MPF COVER to the fitting holes on the printer.
2) Insert the SHAFT PIVOT MSIs into the left and right sides fitting holes of the FRONT COVER and the MPF COVER, and then secure the SHAFT PIVOT MSIs with the hooks.
3) Align the left and right side fitting holes of the FRONT COVER with the fitting hole of the LINK L and the LINK R, and then insert the SHAFT PIVOTs. Secure the SHAFT PIVOTs with the hooks.
4) Close the MPF COVER.

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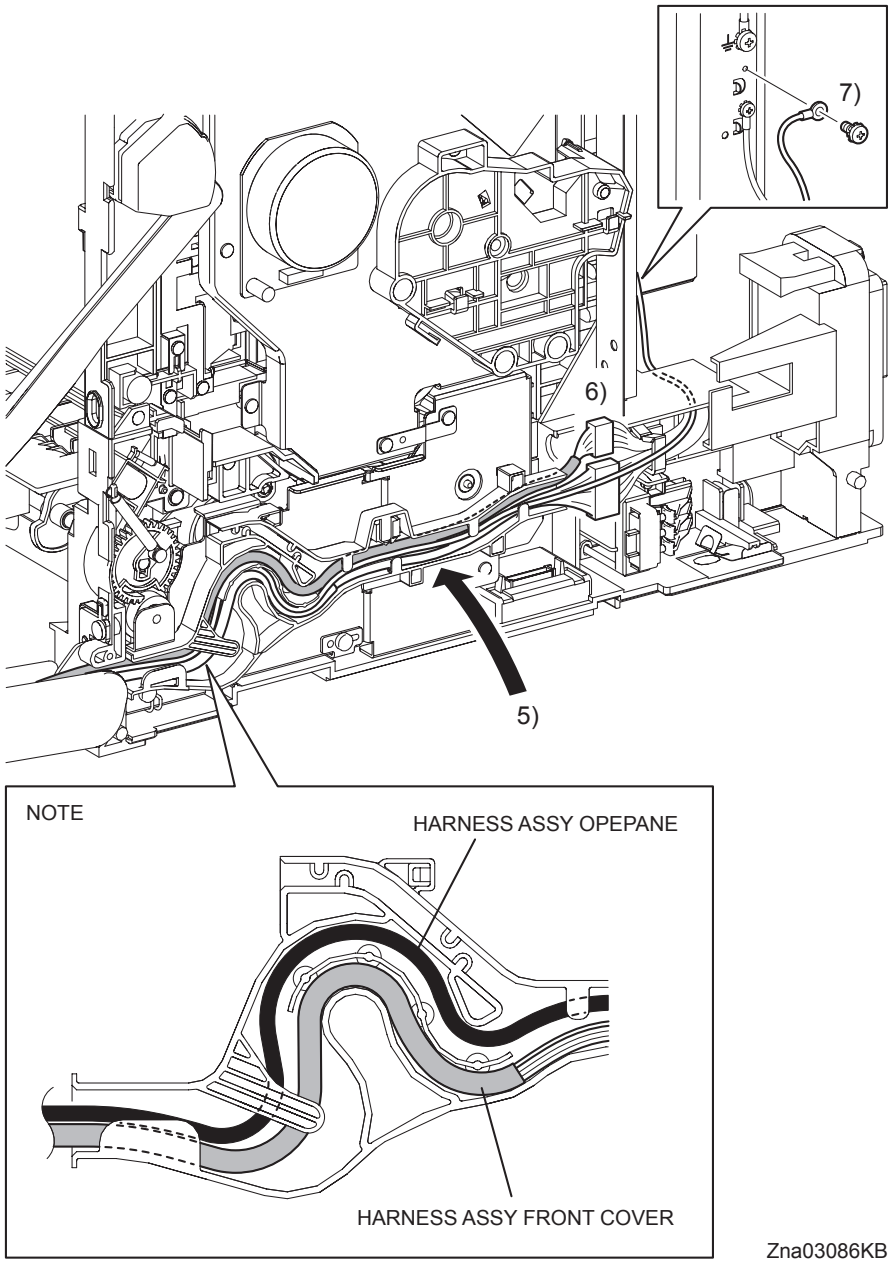
Replacement 30 FRONT COVER (PL1.2.98)

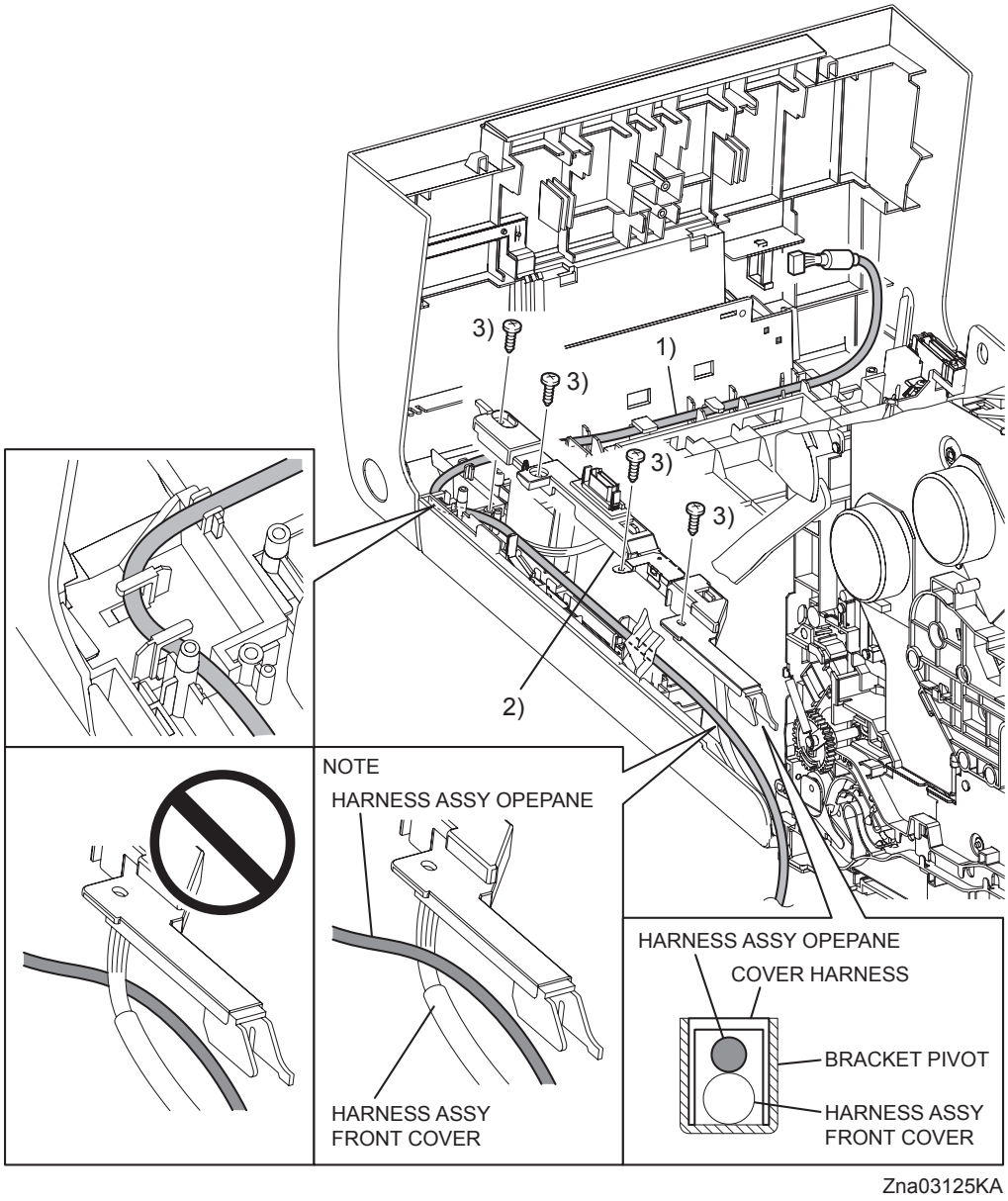


NOTE When performing the step below, route the HARNESS ASSY OPEPANE over the HARNESS ASSY FRONT COVER.

5) Route the HARNESS ASSY OPEPANE and the HARNESS ASSY FRONT COVER along the DUCT ASSY DRV PH.
6) Engage the connector (P/J272) of the HARNESS ASSY FRONT COVER and the connector (P/J2900) of the HARNESS ASSY OPEPANE.
7) Secure the ground wire of the HARNESS ASSY FRONT COVER to the printer using the one screw (silver, with washer, 6mm).

Go to the next replacement step:
Replacement 33 RIGHT COVER (PL1.1.6)

Replacement 31 OPERATOR PANEL (PL1.2.97)



1) Route the HARNESS ASSY OPEPANE through the notch on the lib of the FRONT COVER and the hook.

NOTE When performing the step below, route the HARNESS ASSY OPEPANE so that it crosses the HARNESS ASSY FRONT COVER.

2) Replace the COVER HARNESS by mating the hole of the COVER HARNESS with the boss on the FRONT COVER.

NOTE When performing the step below, check that the HARNESS ASSY OPEPANE is routed over.

3) Secure the COVER HARNESS to the FRONT COVER using the four screws (silver, tap, 10mm).

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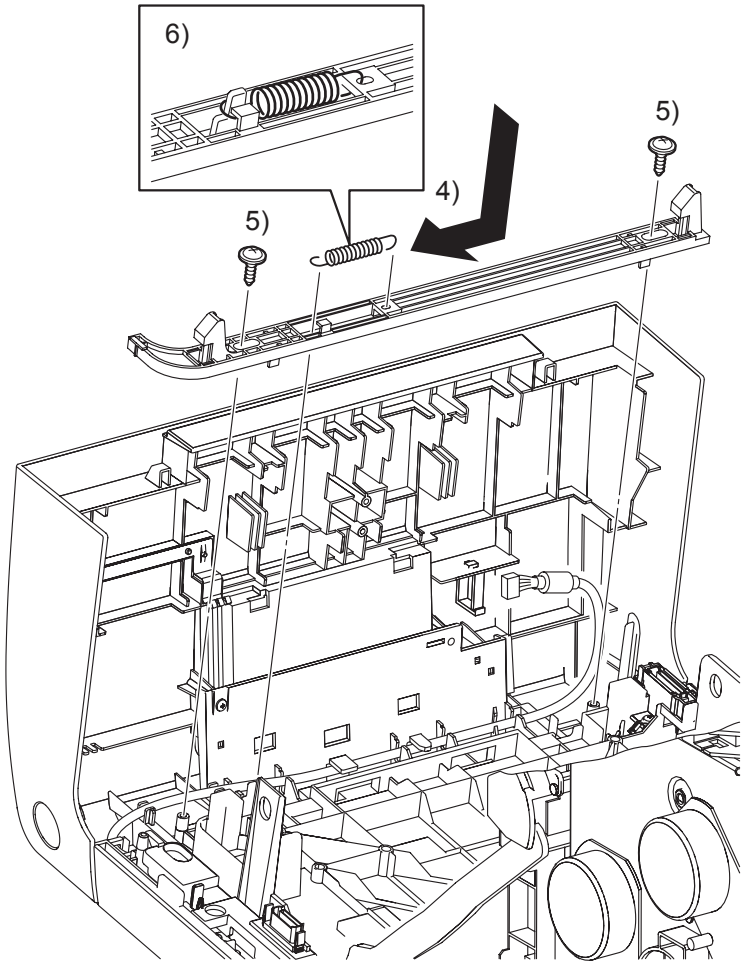
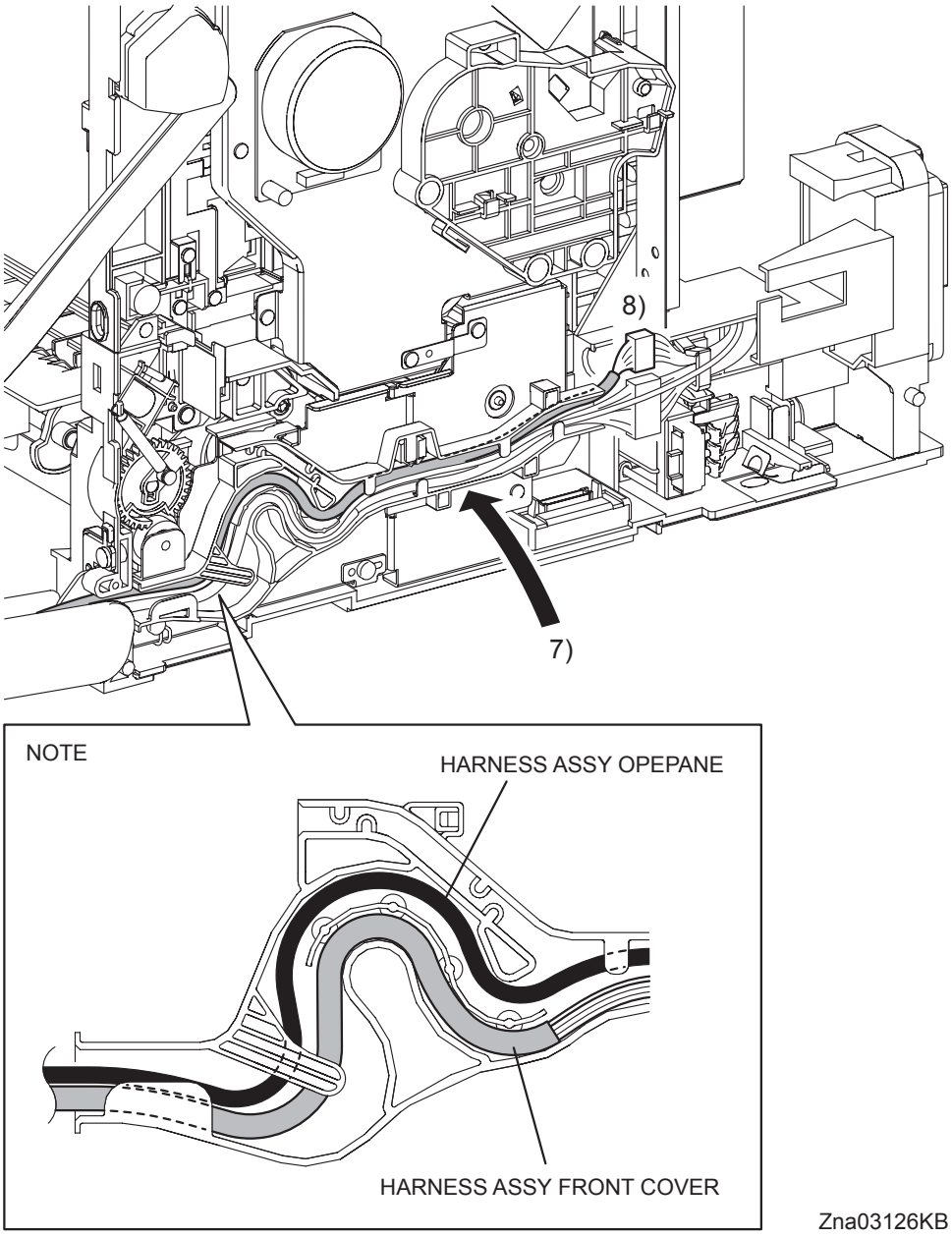
Replacement 31 OPERATOR PANEL (PL1.2.97)



4) Replace the LATCH FRONT to the FRONT COVER by mating the two holes of the LATCH FRONT with the studs on the FRONT COVER
5) Secure the LATCH FRONT to the FRONT COVER using the two screws (silver, with flange, tap, 10mm).
6) Anchor the SPRING LATCH to the hole on the LATCH FRONT and the peg on the FRONT COVER.

Continues to the next page.

Replacement 31 OPERATOR PANEL (PL1.2.97)



NOTE When performing the step below, rote the HARNESS ASSY OPEPANE on the most outward position.

7) Route the HARNESS ASSY OPEPANE along the DUCT ASSY DRV PH.
8) Engage the connector (P/J2900) of the HARNESS ASSY OPEPANE.

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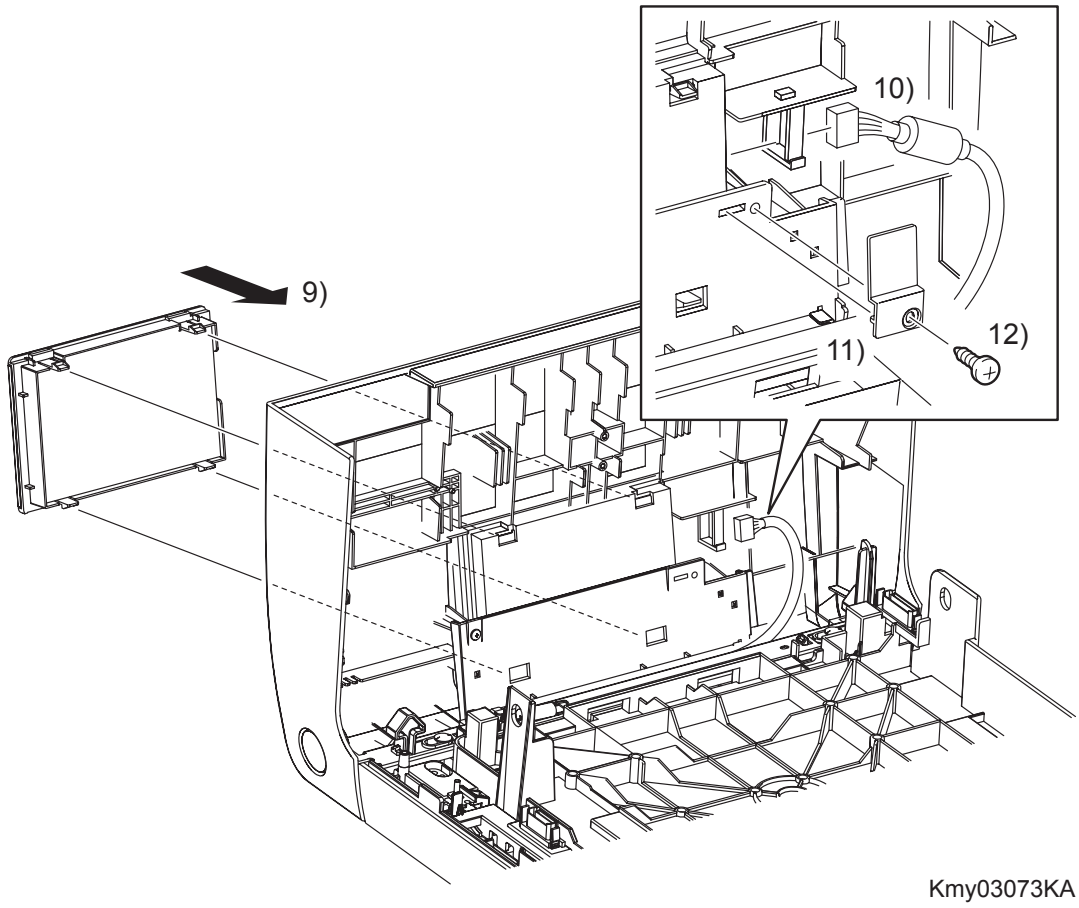
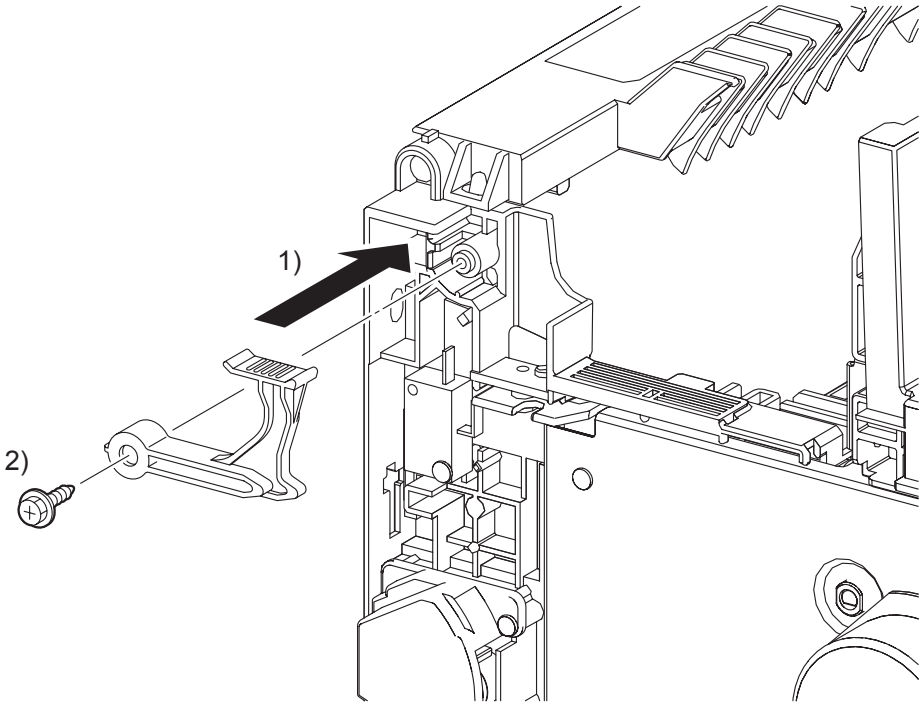
Replacement 31 OPERATOR PANEL (PL1.2.97)



9) Replace the OPERATOR PANEL to the FRONT COVER and secure at the four hooks.
10) Engage the connector (P/J220) of the OPERATOR PANEL, and then fix the core of the HARNESS ASSY OPEPANE with the clamp.
11) Replace the BRACKET HARNESS by mating the lug on the BRACKET HARNESS with the hole of the FRONT COVER,
12) Secure the BRACKET HARNESS to the FRONT COVER using the one screw (silver, tap, 10mm).

Go to the next replacement step:
Replacement 33 RIGHT COVER (PL1.1.6)

Replacement 32 LEVER FUSER D (PL6.1.18)



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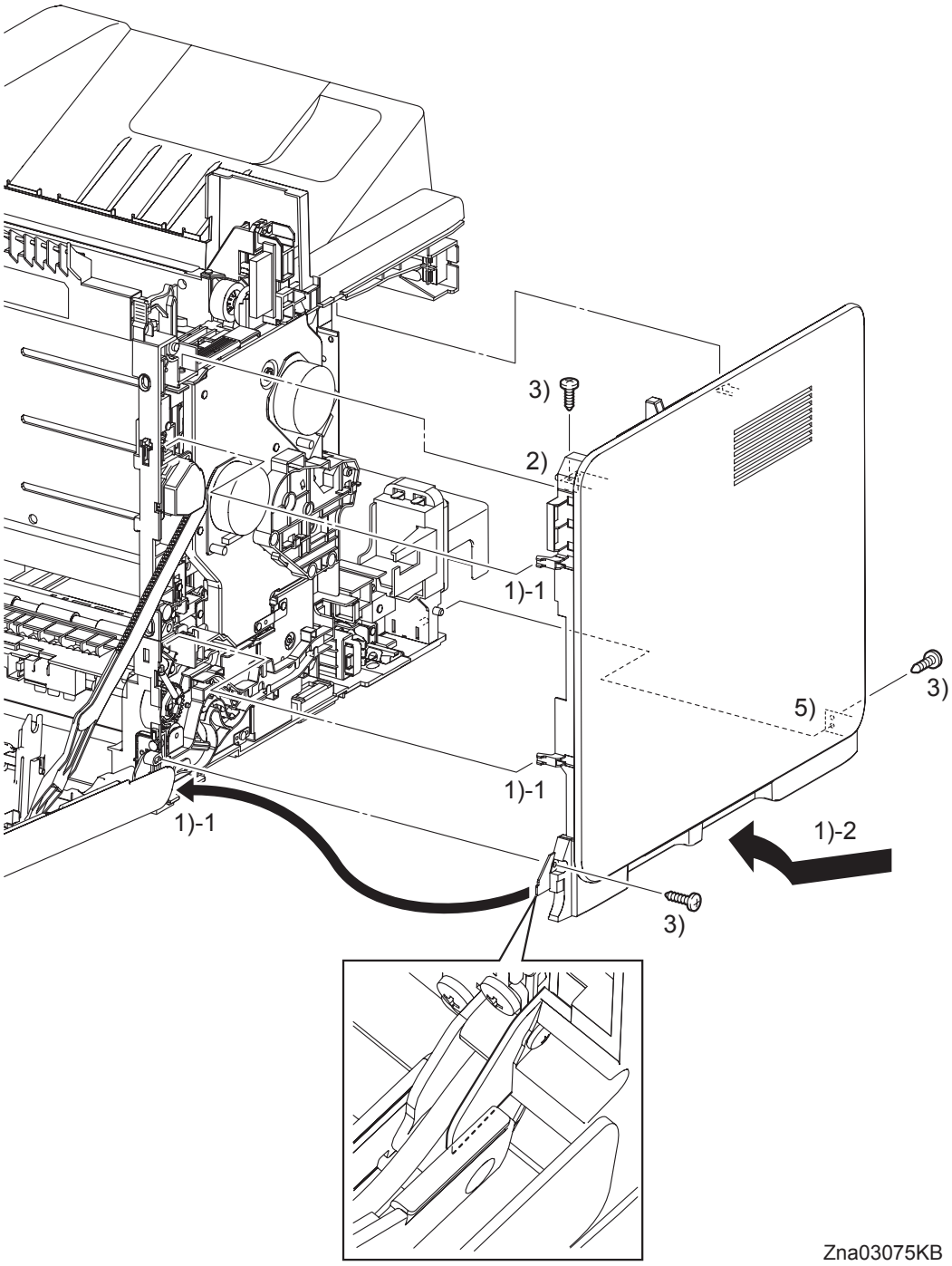
1) Attach the LEVER FUSER D to the printer.
2) Secure the LEVER FUSER D to the printer using the one screw (silver, with flange, tap, 10mm).

Go to the next replacement step:
Replacement 33 RIGHT COVER (PL1.1.6)

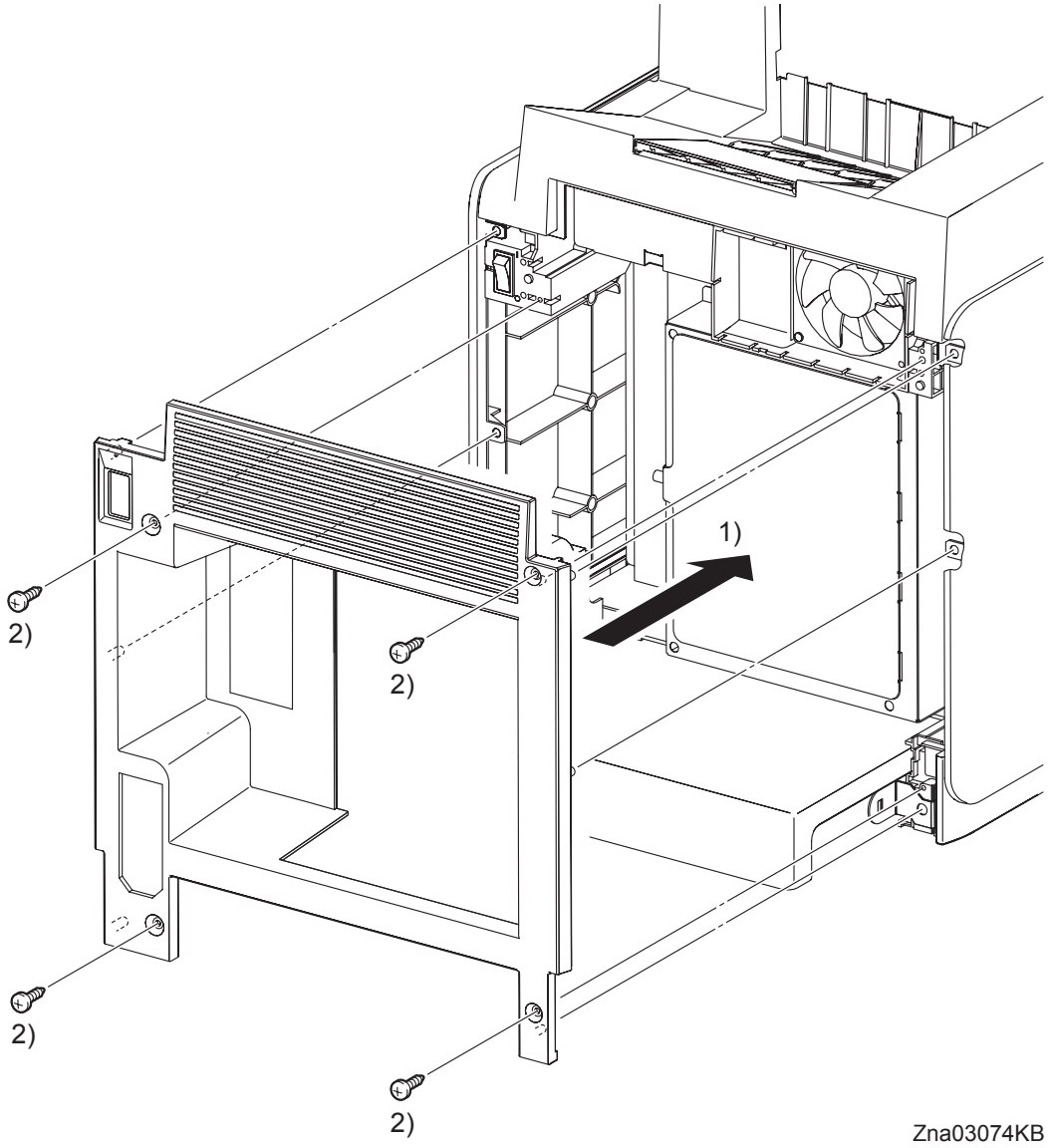
Replacement 33 RIGHT COVER (PL1.1.6)



1) Insert the front side of the RIGHT COVER between the FRONT COVER and the printer. Mate the two front side hooks of the RIGHT COVER with the holes on the printer.
2) Mate the holes of the RIGHT COVER with the two bosses on the printer.
3) Secure the RIGHT COVER to the printer using the three screws (silver, tap, 10mm).

Go to the next replacement step:
Replacement 34 REAR COVER (PL1.1.4)

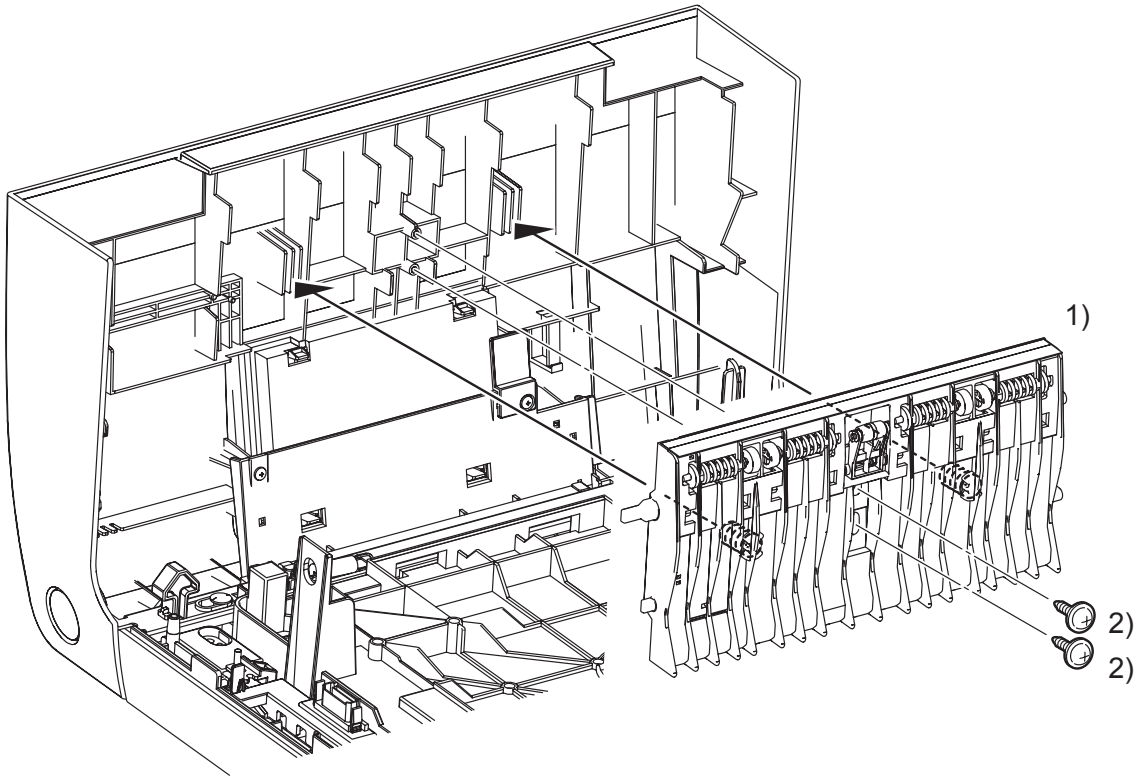
Replacement 34 REAR COVER (PL1.1.4)



1) Replace the REAR COVER by mating the six bosses on the REAR COVER with the holes on the printer, the RIGHT COVER (PL1.1.6), and the LEFT COVER (PL1.1.7).
2) Secure the REAR COVER to the printer using the four screws (silver, tap, 10mm).

Go to the next replacement step:
Replacement 36 FUSER (PL6.1.10)

Replacement 35 CHUTE ASSY EXIT OUT (PL6.1.1)



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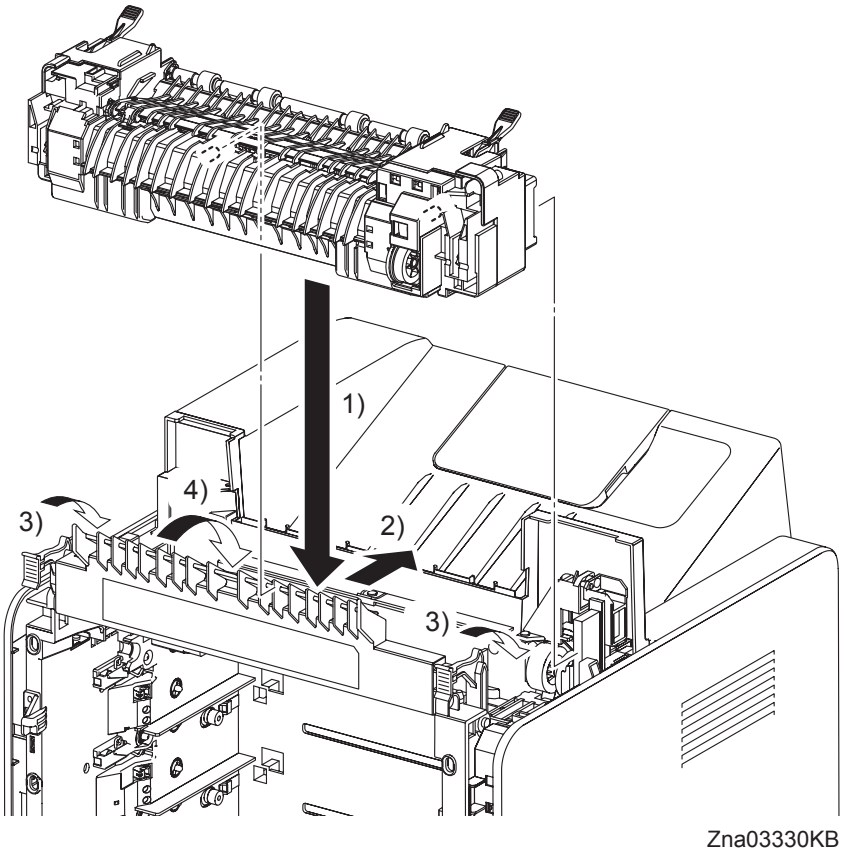
1) Replace the CHUTE ASSY EXIT OUT to the FRONT COVER by mating the two springs of the CHUTE ASSY EXIT OUT with the ribs on the FRONT COVER.
2) Secure the CHUTE ASSY EXIT OUT to the FRONT COVER using the two screws (silver, with flange, tap, 10mm).
3) Close the FRONT COVER.

Replacement 36 FUSER (PL6.1.10)

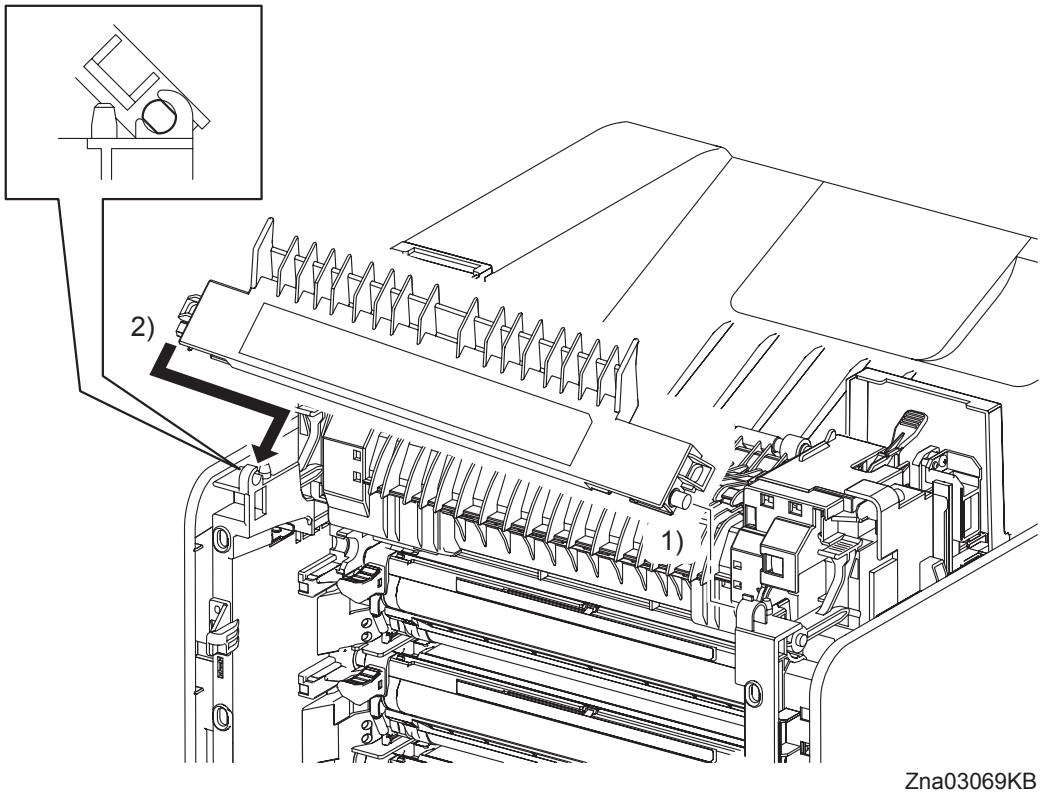


1) Put the FUSER on the printer.
2) Insert the two rear side bosses of the FUSER into the holes on the printer by moving the FUSER slightly backward.
3) Push down the LEVER FUSER D and the LEVER FUSER AD to lock the FUSER.
4) Close the DUPLEX GATE.
5) Close the FRONT COVER.

Replacement 37 DUPLEX GATE (PL6.1.13)

NOTE

The FUSER part is very hot. Take added care not to get burned when performing the service operation.

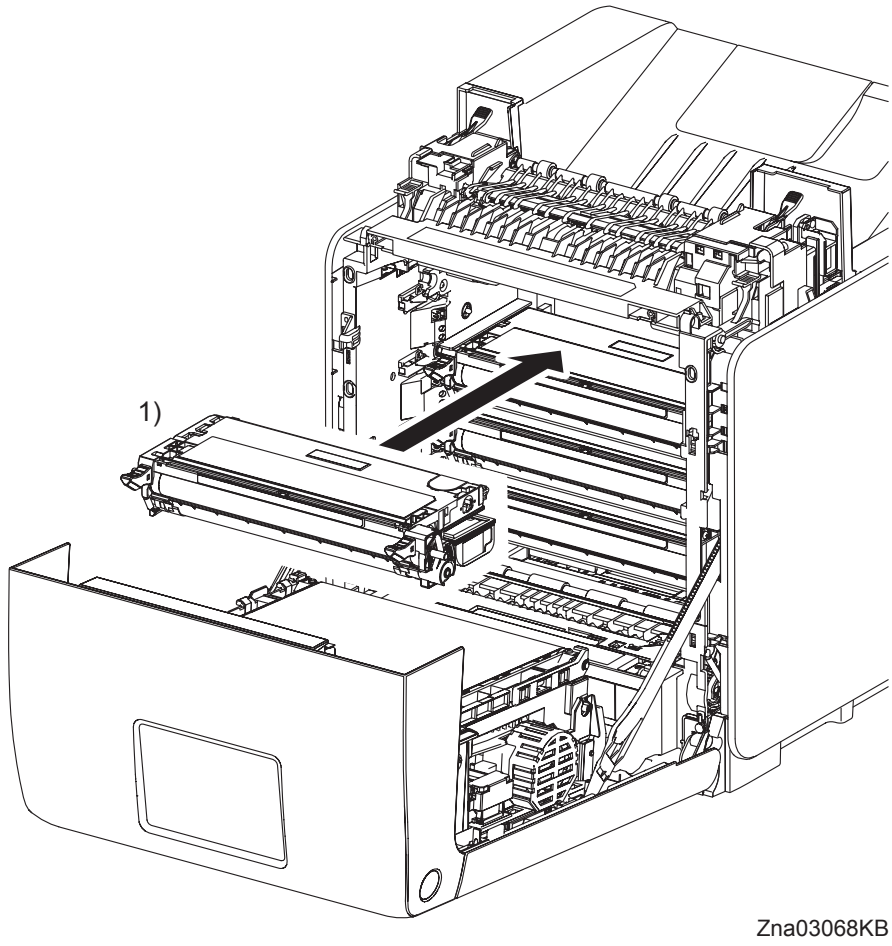


1) Insert the right side boss of the DUPLEX GATE with the hole of the printer.
2) Open the DUPLEX GATE (PL6.1.13) to about 45 degrees so that the flat faces of the left side pivot of the DUPLEX GATE comes parallel with the U-shaped notch. Push in the left side pivot of the DUPLEX GATE into the U-shaped notch diagonally forward.
3) Close the DUPLEX GATE.
4) Close the FRONT COVER.

Replacement 38 TONER CARTRIDGE (K), (C), (M), (Y) (PL5.1.18)

NOTE

Described below is the replacement procedure common among TONER CARTRIDGEs (C), (M), (Y), and (K).

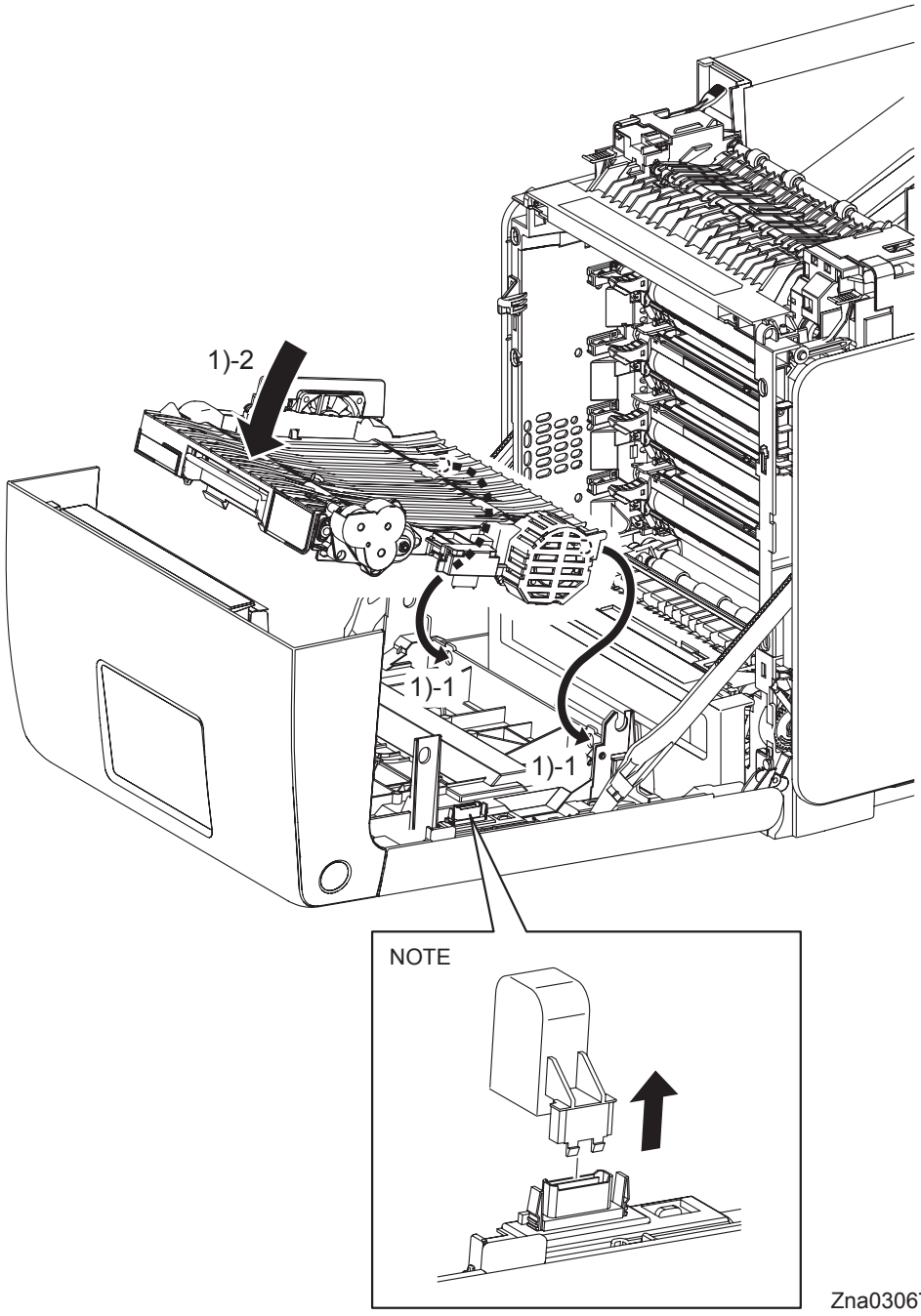


NOTE

If all the TONER CARTRIDGEs are removed, attach them in the order of Yellow, Magenta, Cyan, and Black from the bottom.

1) Replace the TONER CARTRIDGE inserting it by the left and right handles along the guide on the printer.
2) Close the FRONT COVER.

Replacement 39 DUPLEX MODULE (PL11.1.1)



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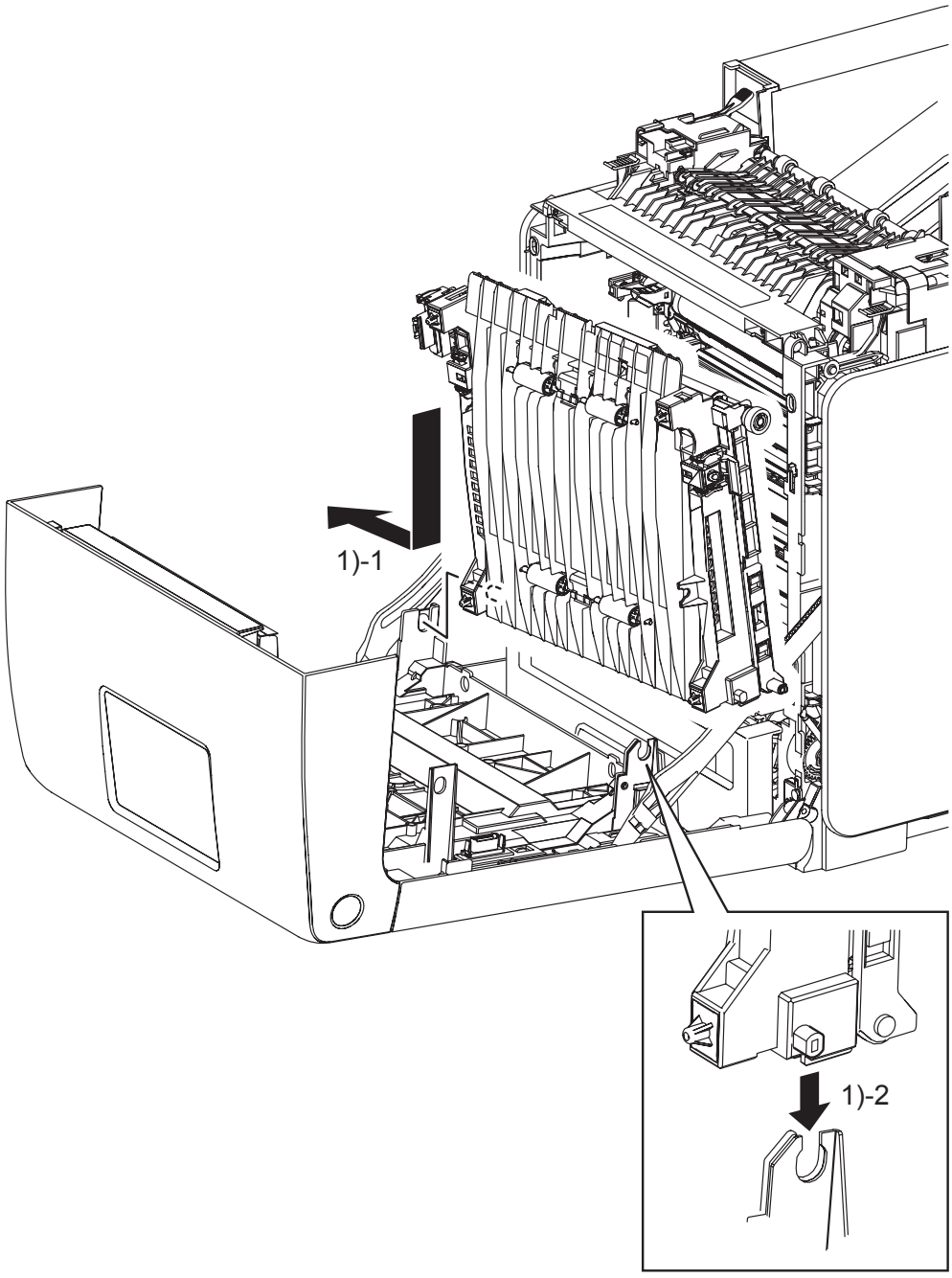
NOTE

Remove the CAP CONNECTOR DRAWER (PL1.2.38) of the connector of the FRONT COVER when installing new DUPLEX MODULE.

1) Replace the DUPLEX MODULE slowly by mating the two backside bosses of the DUPLEX MODULE with the holes on the FRONT COVER, and then secure with the lever.

Go to the next replacement step:
Replacement 40 TRANSFER BELT (PL4.1.1)

Replacement 40 TRANSFER BELT (PL4.1.1)



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1) Replace the TRANSFER BELT by inserting the right side boss on the TRANSFER BELT into the hole on the FRONT COVER and then inserting the left side boss on the TRANSFER BELT into the U-shaped groove on the FRONT COVER.

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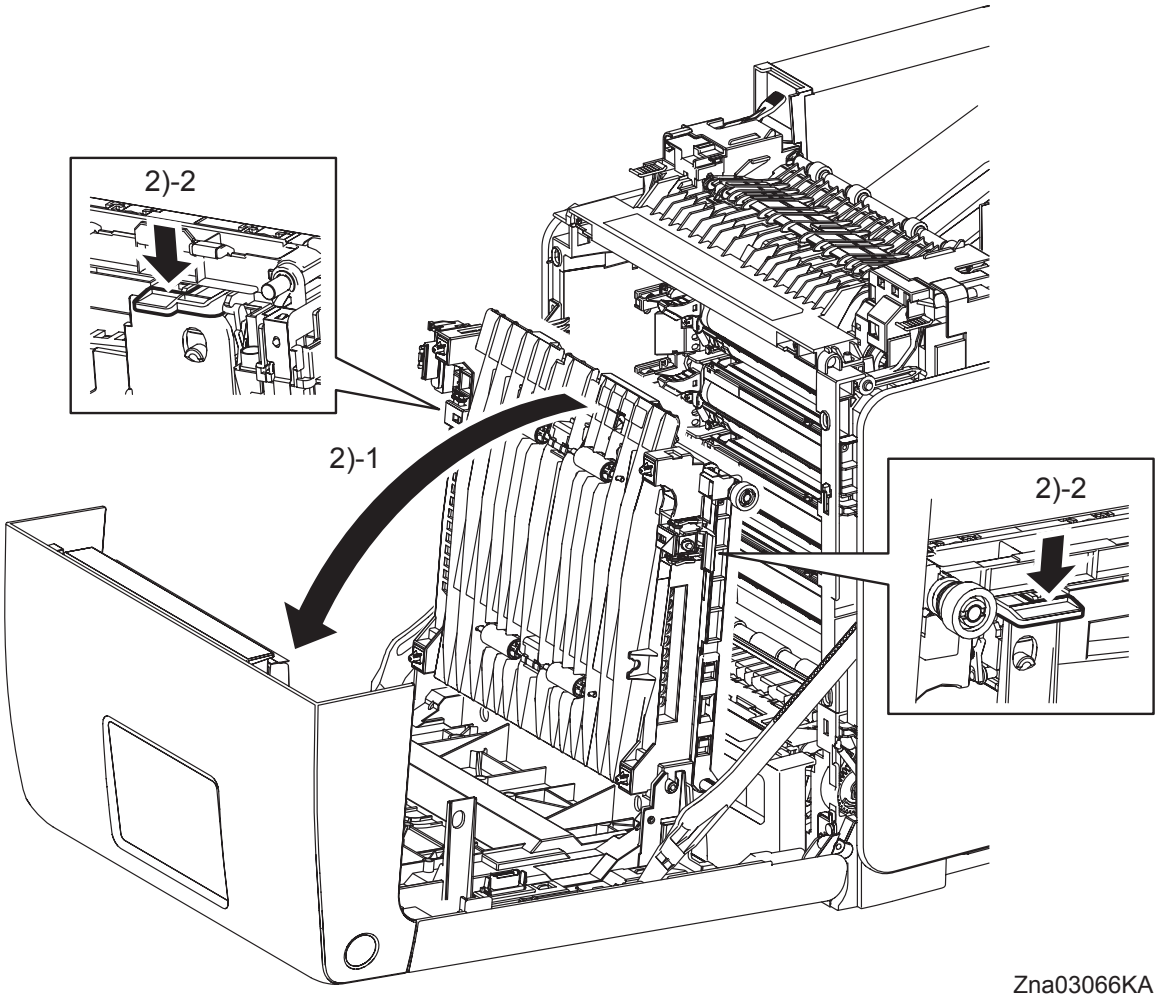
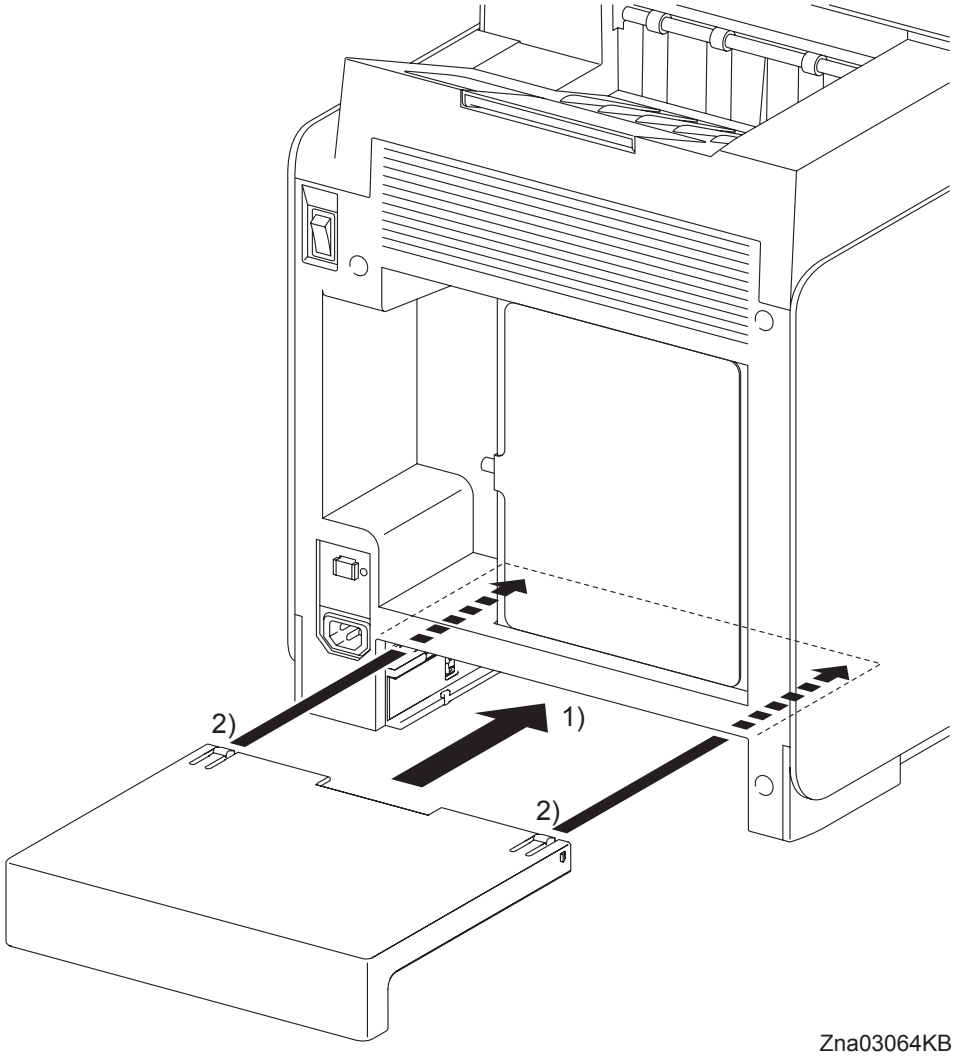
Replacement 40 TRANSFER BELT (PL4.1.1)



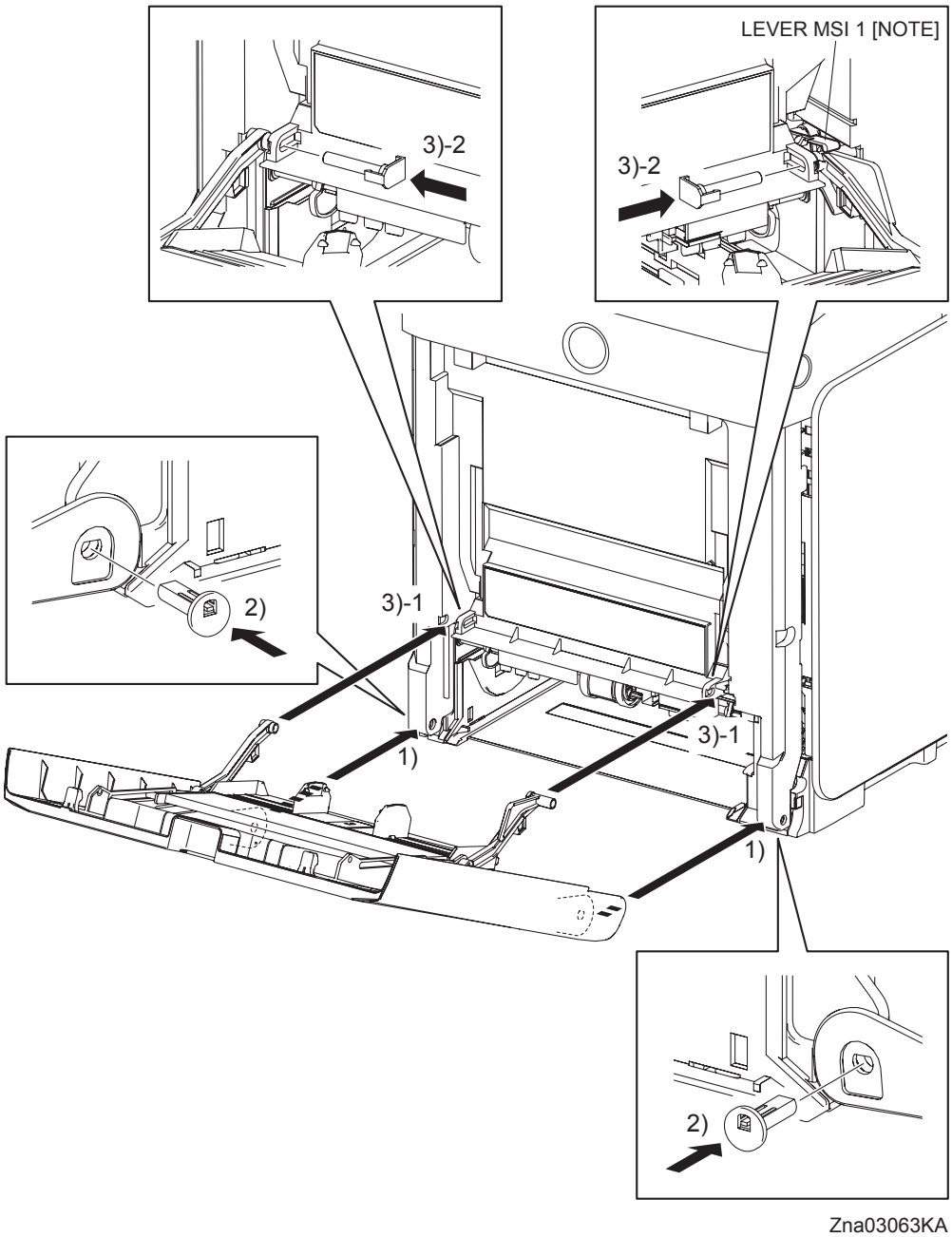
2) Tilt the TRANSFER BELT slowly, and then secure with the left and right levers.
3) Close the FRONT COVER.

Replacement 41 TRAY REAR COVER (PL1.1.5)



1) Insert the TRAY REAR COVER into the printer.
2) Secure by locking the two front hooks on TRAY REAR COVER to the printer.

Replacement 42 MPF COVER (PL1.2.99)



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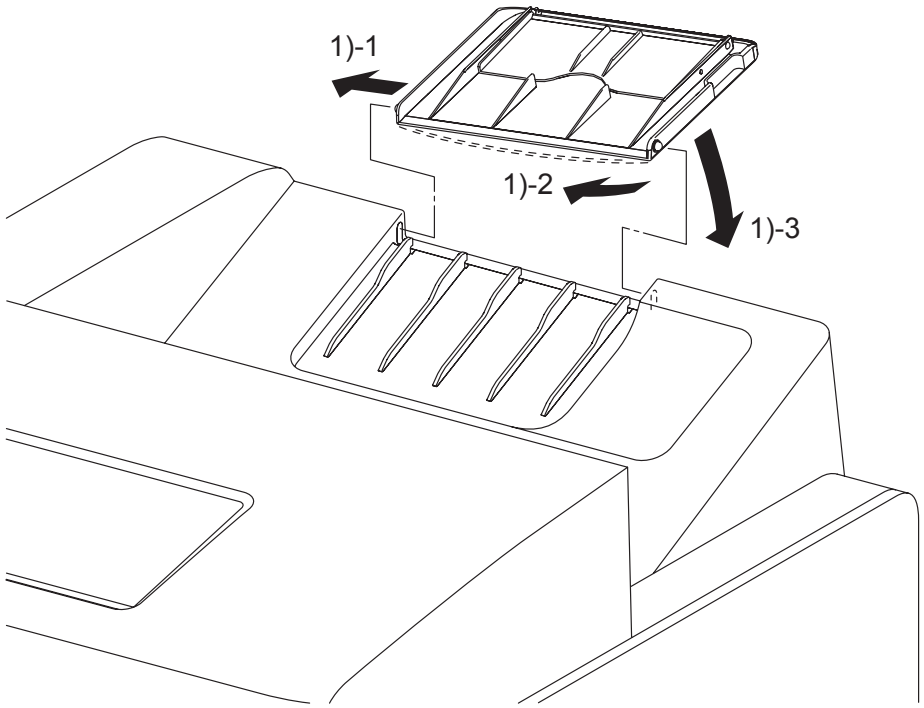
1) Replace the MPF COVER to the FRONT COVER by mating the left and right side fitting holes on the MPF COVER with the holes on the FRONT COVER.
2) Insert the SHAFT PIVOT MSI into the left and right side fitting holes on the MPF COVER, and then secure the SHAFT PIVOT MSI with the hook.

NOTE

When performing the step described below, make sure that the LEVER MSI 1 is on the LINK ASSY MSI R.

3) Mate the LINK ASSY MSIs on the left and right sides of the MPF COVER with the fitting holes on the FRONT COVER. Insert the PIN PIVOT MSI and secure with the hook.
4) Close the MPF COVER.

Replacement 43 COVER EXTENDER (PL1.1.9)



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NOTE

When performing the step described below, take care not to damage the boss of the COVER EXTENDER.

1) Insert one of the bosses of the COVER EXTENDER, at its open position, into the hole on the TOP COVER, and then bend the COVER EXTENDER to slip the other boss into place.
2) Close the COVER EXTENDER.

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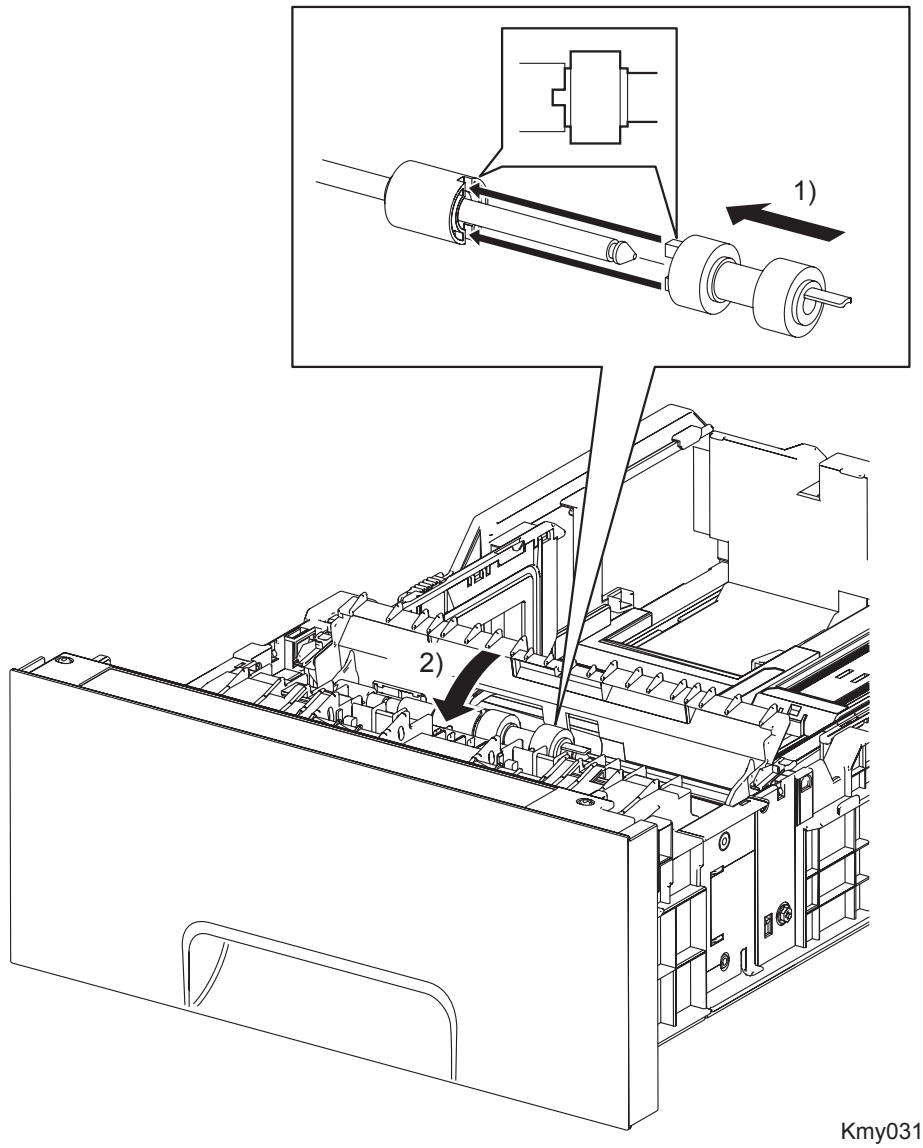
Replacement 44 550 TRAY FEED ROLLER (PL12.3.29) & 550 TRAY SEPARATOR ROLLER (PL12.5.17)

NOTE

When replacing the 550 TRAY SEPARATOR ROLLER or the 550 TRAY FEED ROLLER replace the 550 TRAY SEPARATOR ROLLER and the two 550 TRAY FEED ROLLERs at the same time.



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1) Slide the 550 TRAY SEPARATOR ROLLER onto the SHAFT SEPARATOR so that the lug on the 550 TRAY SEPARATOR ROLLER is mated with the notch on the CLUTCH FRICTION SPRTR (PL12.5.16). Lock the hook on the other end of the 550 TRAY SEPARATOR ROLLER into the groove on the SHAFT SEPARATOR.
2) Close the CVR SPRTR CST.

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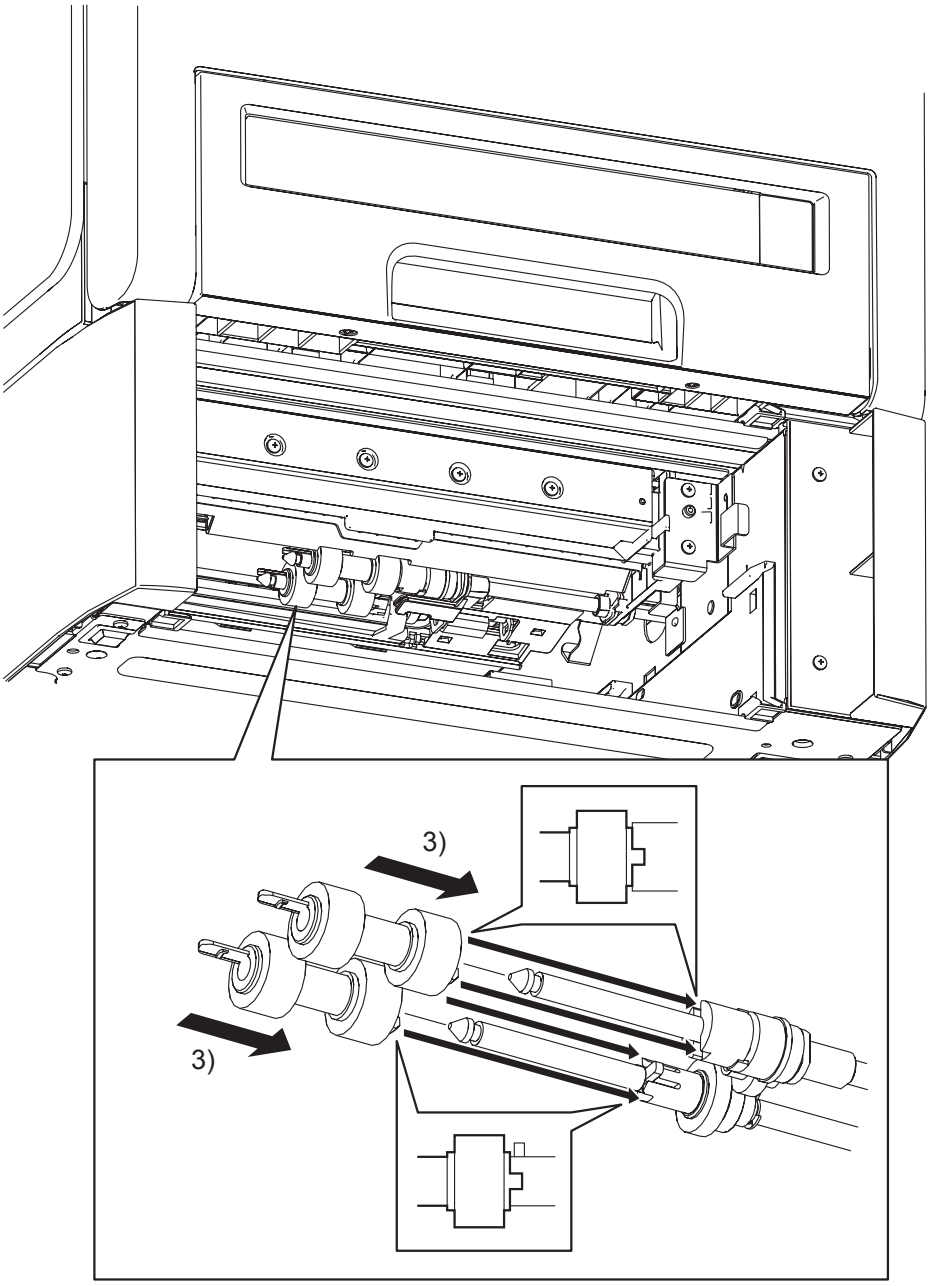
Replacement 44 550 TRAY FEED ROLLER (PL12.3.29) & 550 TRAY SEPARATOR ROLLER (PL12.5.17)



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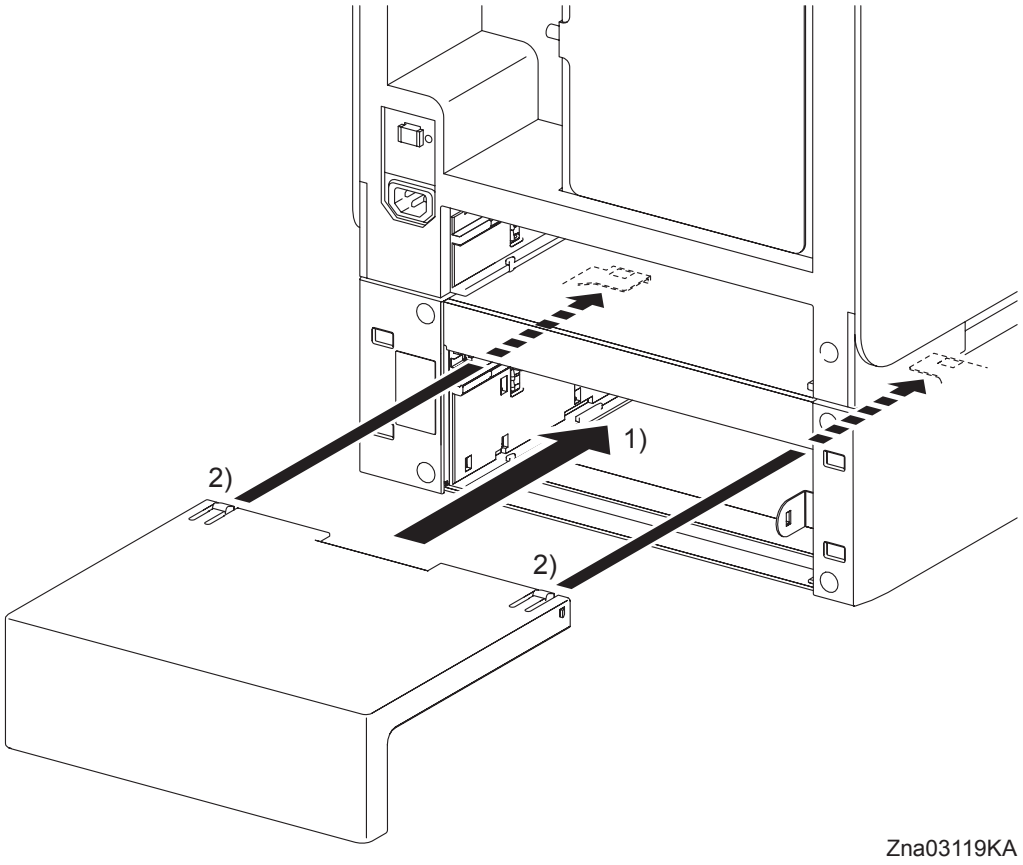
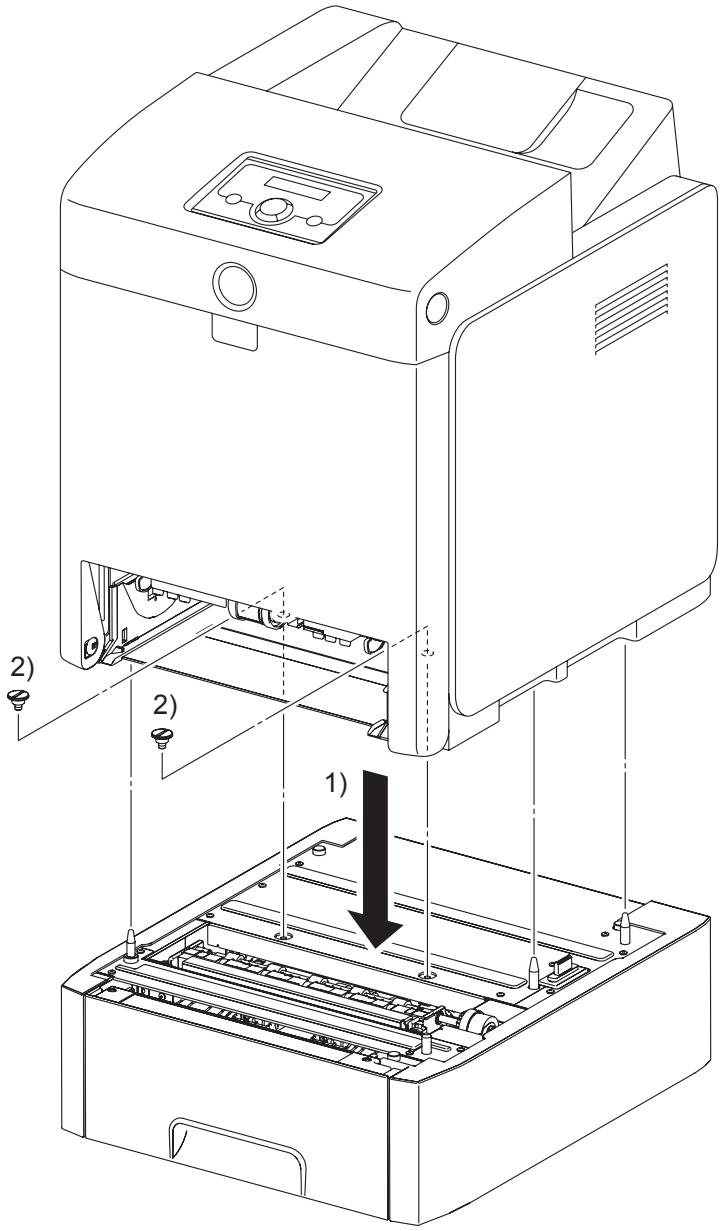
3) Slide the 550 TRAY FEED ROLLERs onto the shafts so that the lugs on the 550 TRAY FEED ROLLERs are mated with the notches on the ROLL ASSY GEAR NUDGERs (PL12.3.22) and CLUTCH ONE WAY FEED (PL12.3.28). Lock the hooks on the other end of the 550 TRAY FEED ROLLERs into the grooves on the shafts.
4) Replace the 550 SHEET PAPER TRAY to the 550 SHEET FEEDER ASSEMBLY.

Replacement 45 550 TRAY REAR COVER (PL12.1.4)



1) Insert the 550 TRAY REAR COVER into the 550 SHEET FEEDER ASSEMBLY.
2) Push the 550 TRAY REAR COVER frontward until it is locked to the 550 SHEET FEEDER ASSEMBLY at the two hooks on its front edge.

Replacement 46 550 SHEET FEEDER ASSEMBLY (PL12.1.1)

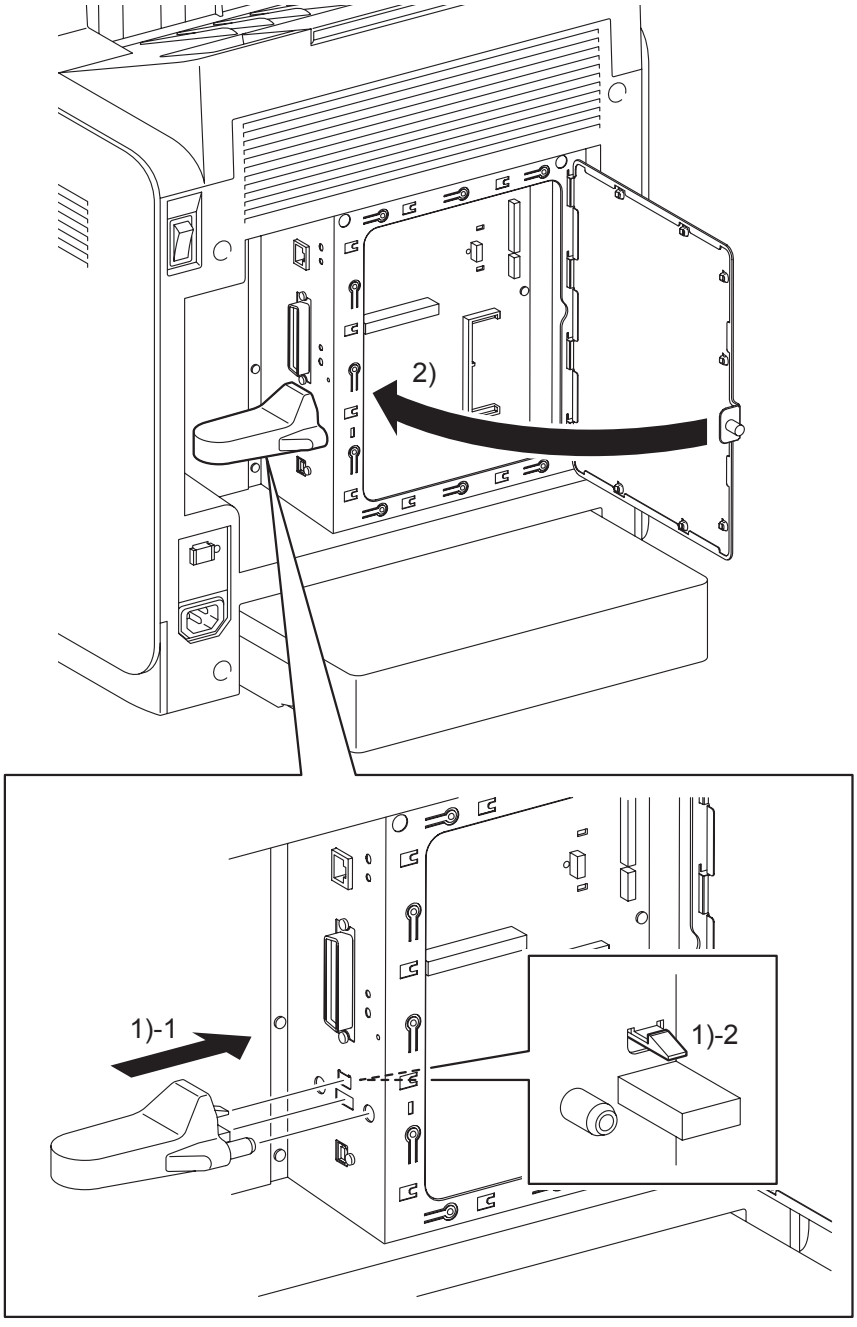


NOTE

The printer must be lifted by two people.

1) Place the printer on the 550 SHEET FEEDER ASSEMBLY with the four holes on the bottom of the printer aligned with the studs on the 550 SHEET FEEDER ASSEMBLY.
2) Secure the printer to the 550 SHEET FEEDER ASSEMBLY using the two FEEDER SCREWS.
3) Replace the 250 SHEET PAPER TRAY to the printer.

Replacement 47 WIRELESS PRINTER ADAPTER (PL9.1.32)



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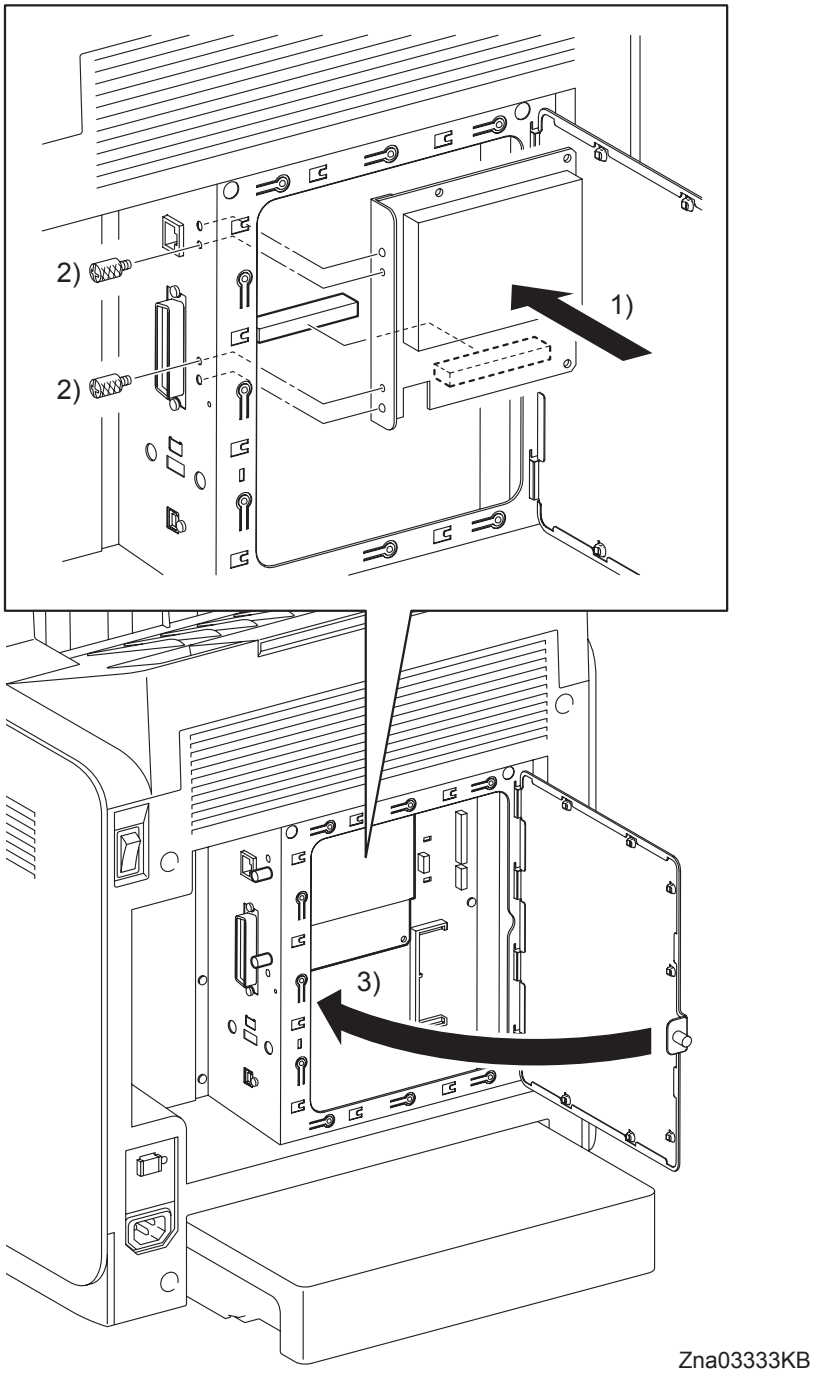
1) Attach the WIRELESS PRINTER ADAPTER to the ELECTRONIC SUB-SYSTEM CONTROL BOARD and fix it.
2) Close the SHIELD WINDOW and secure the SCREW KNURLING.

Replacement 48 HARD DISK (PL9.1.47)

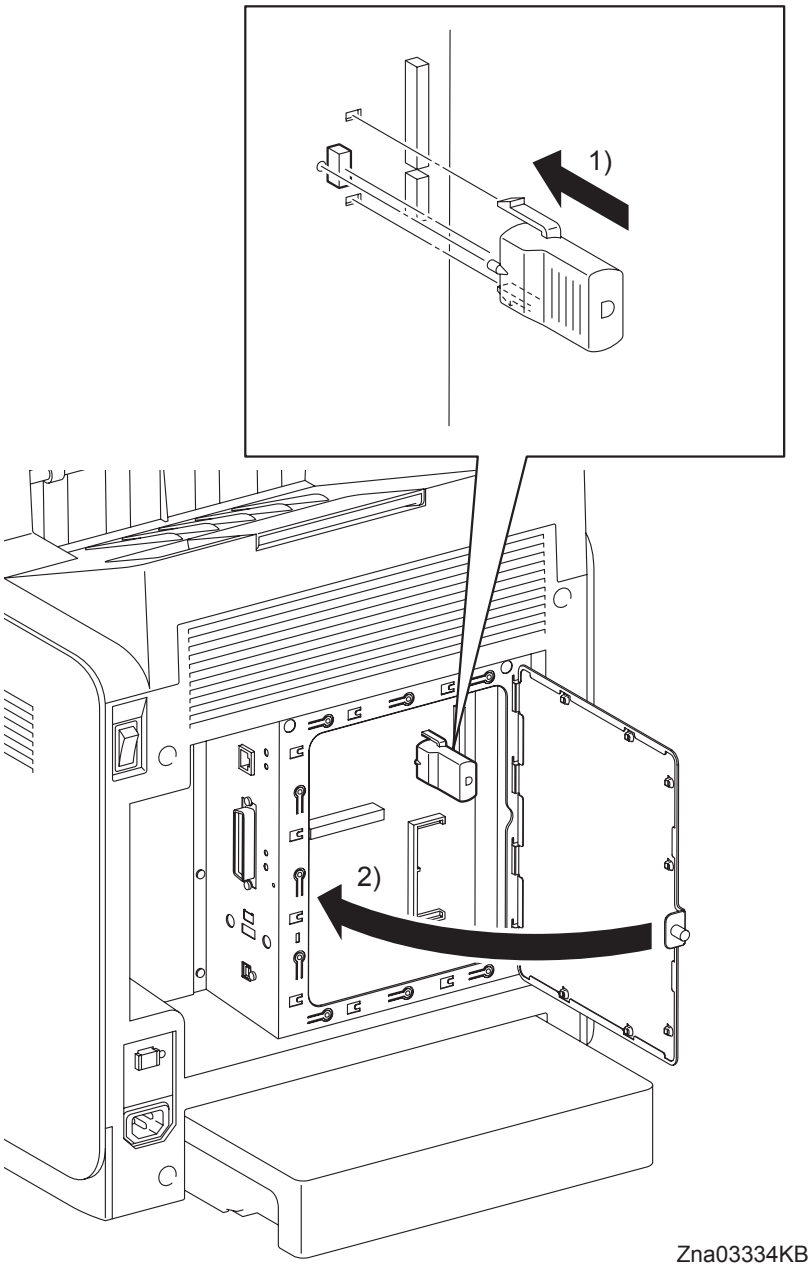
NOTE

Use a wristband to protect the HDD from electrostatic damage.



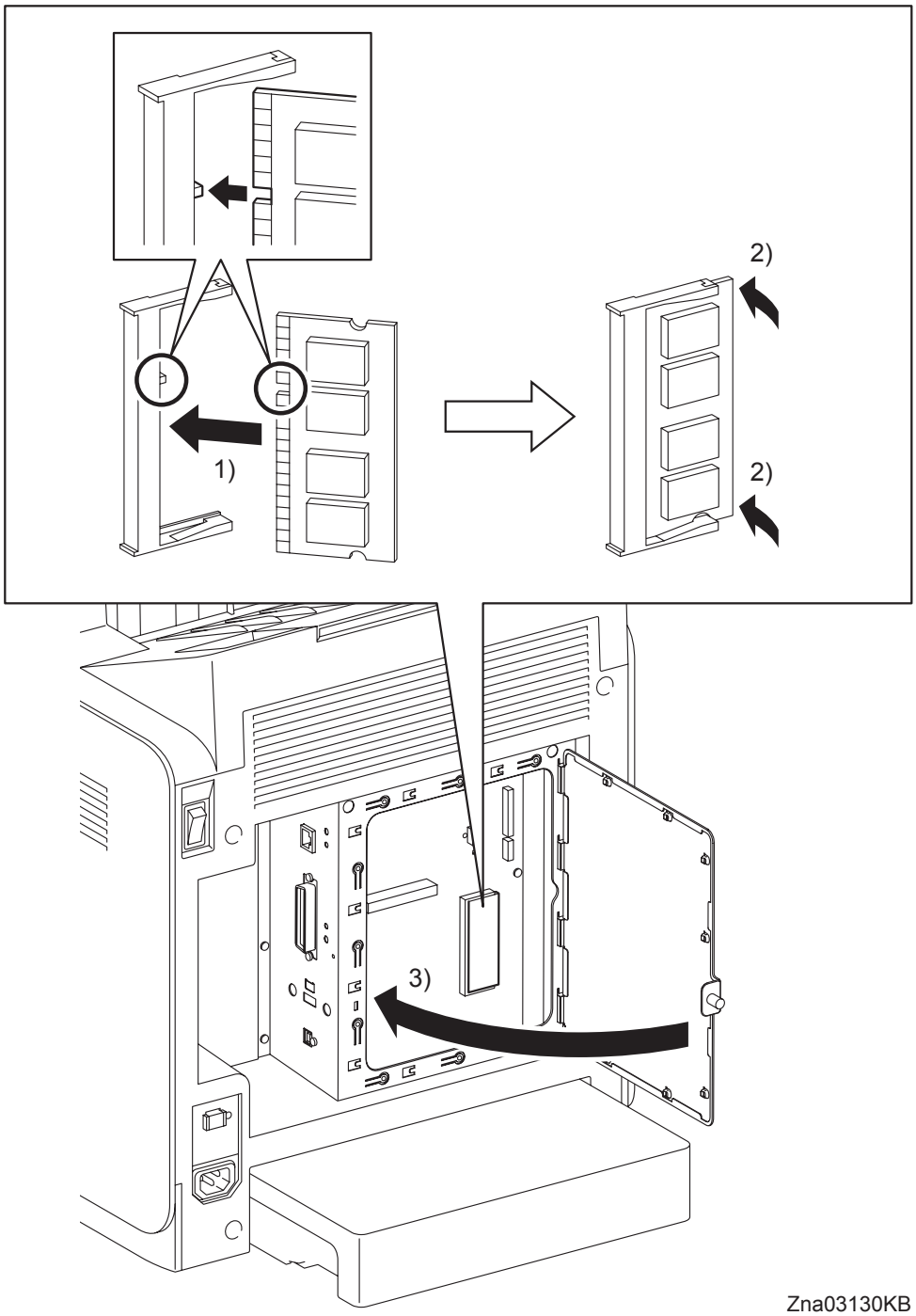
1) Mate the two bosses on the HARD DISK with the holes on the printer, and then replace the HARD DISK to the ELECTRONIC SUB-SYSTEM CONTROL BOARD.
2) Secure the HARD DISK to the printer using the two SCREW KNURLINGs (PL9.1.22).
3) Close the SHIELD WINDOW and secure the SCREW KNURLING.

Replacement 49 NETWORK PROTOCOL ADAPTER (PL9.1.46)



1) Engage the NETWORK PROTOCOL ADAPTER to the connector (J16) on the ELECTRONIC SUB-SYSTEM CONTROL BOARD and fix it.
2) Close the SHIELD WINDOW and secure the SCREW KNURLING.

Replacement 50 MEMORY CARD (PL9.1.30)



1) Fit the MEMORY CARD into the socket by mating the notch of the MEMORY CARD with the lug on the socket.
2) Push the MEMORY CARD toward the ELECTRONIC SUB-SYSTEM CONTROL BOARD until it snaps into place.
3) Close the SHIELD WINDOW and secure the SCREW KNURLING.