

# SERVICE MANUAL

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# PREFACE

This manual describes basic functions, theory of electrical and mechanical operations, maintenance and repair procedures of EPSON EPL-N2700 Optional Units. The instructions and procedures included herein are intended for the experienced repair technicians, and attention should be given to the precautions on the preceding page. The chapters are organized as follows:

## **CHAPTER 1. DOUBLE CASSETTE UNIT**

*Describes the step-by-step procedures for disassembling and assembling the Double Cassette Unit.*

## **CHAPTER 2. DUPLEX UNIT**

*Describes the step-by-step procedures for disassembling and assembling the Duplex Unit.*

## **CHAPTER 3. LCC UNIT**

*Describes the step-by-step procedures for disassembling and assembling the LCC Unit.*

## **CHAPTER 4. 5-BIN UNIT**

*Describes the step-by-step procedures for disassembling and assembling the 5-Bin Unit.*

## **CHAPTER 5. 10-BIN UNIT**

*Describes the step-by-step procedures for disassembling and assembling the Double Cassette Unit.*

## **CHAPTER 6. Operating Principles for Optional Units**

*Explains the operating principles of each optional unit.*

# Revision Status

Revision	Issued Date	Description
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**CHAPTER**

**1**

**DOUBLE CASSETTE UNIT**

## 1.1 Installing the Double Cassette Unit

This section describes how to install the Double Cassette Unit to the printer main body. Note you are required to remove any optional unit such as the Double Cassette Unit when servicing the printer. The procedure for removing the Double Cassette Unit is not included since you can remove it by reversing the installation procedure.

1. Open the packing carton and get a Double Cassette Unit and the user's manual.

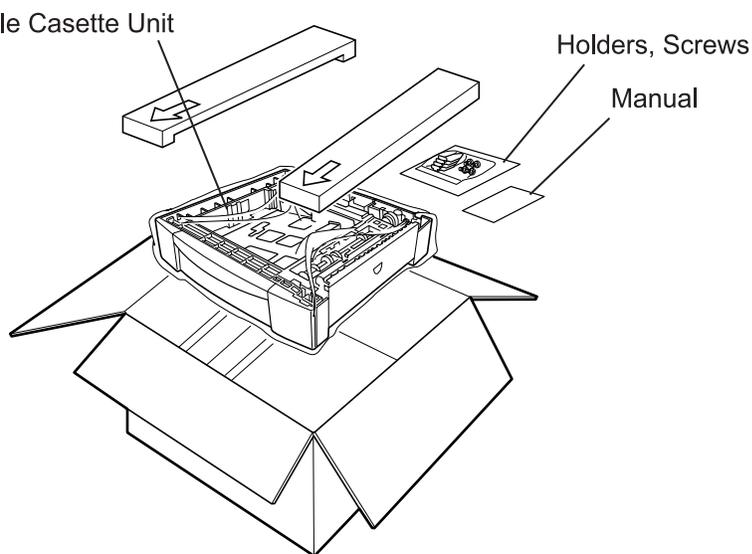


Figure 1-1. Unpacking



After removing the packing materials, please keep them out of children's reach.

2. Pull out the paper cassette and remove the protection materials.

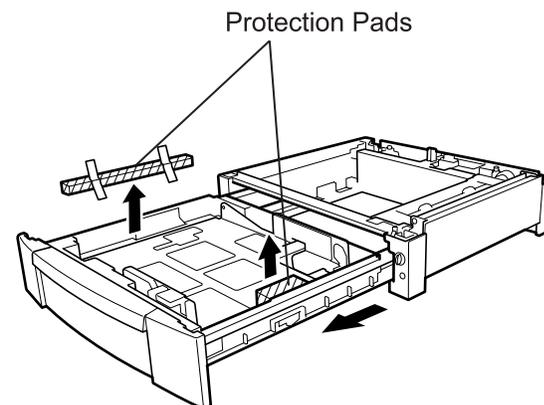


Figure 1-2. Removing the Protection Pads

3. Turn the printer power off and disconnect the AC power cable and interface cable.
4. Remove the bottom cover from the bottom part of the printer.

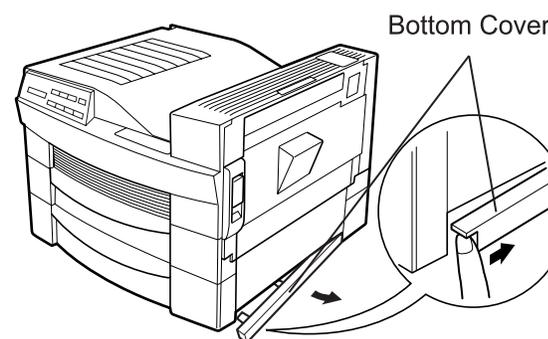


Figure 1-3. Bottom Cover Removal

- Place the printer main body on the Double Cassette Unit.

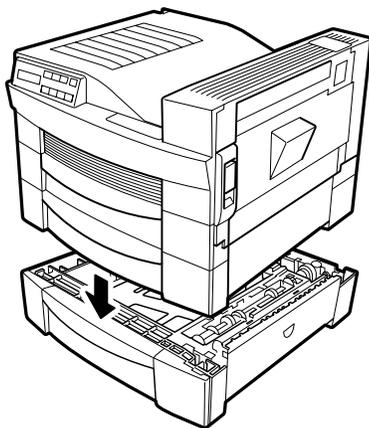


Figure 1-4. Placing the Printer on the Double Cassette Unit

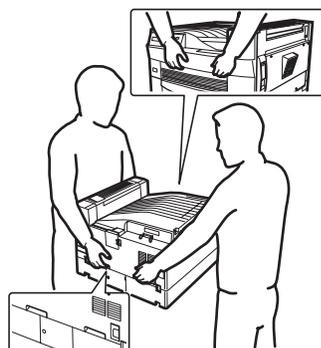


When placing the printer, make sure the following:

- The blue levers on the cassette and the printer are facing in the same direction.
- All corners of the printer are properly aligned with the corresponding ones of the cassette unit.



2 people are required to lift the printer as shown in the figure.



- Attache the bottom cover to the bottom part of the Double Cassette Unit.

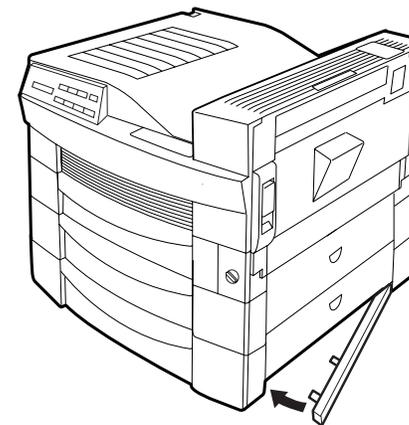


Figure 1-5. Installing the Bottom Cover

- Secure the corners for the printer and the Double Cassette Unit with the holders and screws (1603).

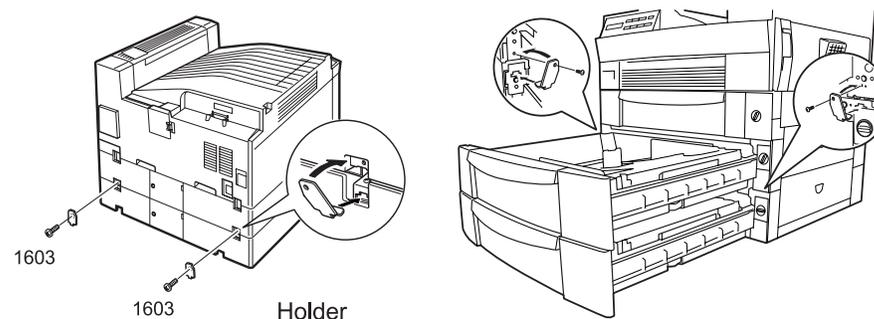


Figure 1-6. Attaching the Holders

- Connect the interface cable and the AC power cable to the printer and turn the printer on.

## 1.2 Disassembly and Assembly of the Double Cassette Unit

This section provides the disassembly procedure for the Double Cassette Unit. Unless otherwise specified, assembly can be performed by following the disassembly procedure in reverse order.

### 1.2.1 Paper Take-up Roller Removal

1. Release the lock on the Paper Take-up Roller and slide the roller along the axle plate to remove the roller.

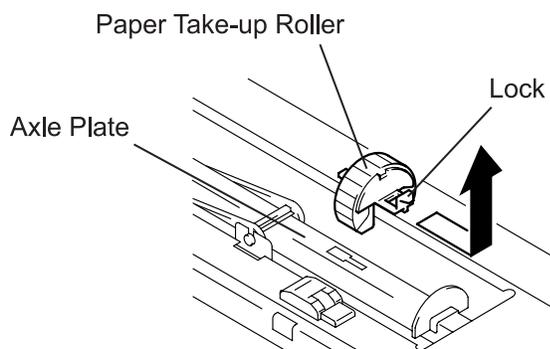
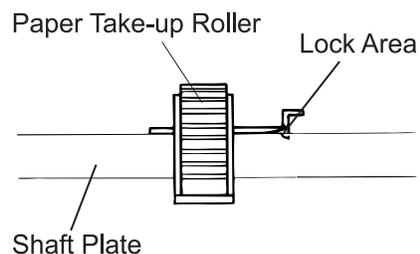


Figure 1-7. Paper Take-up Roller Removal



When installing the Paper Take-up Roller, ensure the roller is securely locked as shown in the figure below.



If you have replaced the Paper Take-up Roller, perform “LC2 Counter Clear” in the maintenance menu. In case 2 Double Cassette Unit are connected, perform “LC3 Counter Clear” as well.

### 1.2.2 Paper Empty Sensor Removal

1. Release three hooks attaching the holder to the guide plate and remove the holder. (See Figure 1-8.)
2. Remove the screw (3501) securing the paper empty sensor bracket to the guide plate. (See Figure 1-8.)
3. Remove the stopper for the Paper Empty Sensor and remove the sensor. (See Figure 1-8.)
4. Disconnect the harness from the Paper Empty Sensor.

### 1.2.3 Paper Near Empty Sensor Removal

1. Release three hooks attaching the holder to the guide plate and remove the holder.
2. Remove the screw (3501) securing the paper near empty sensor bracket to the guide plate.
3. Remove the stopper for the Paper Near Empty Sensor and remove the sensor.
4. Disconnect the harness from the Paper Near Empty Sensor.

### 1.2.4 Paper Feed Sensor Removal

1. Remove the screw (3501) securing the paper feed sensor bracket to the guide plate and remove the bracket.
2. Remove the stopper for the Paper Feed Sensor and remove the sensor.
3. Disconnect the harness from the Paper Feed sensor.

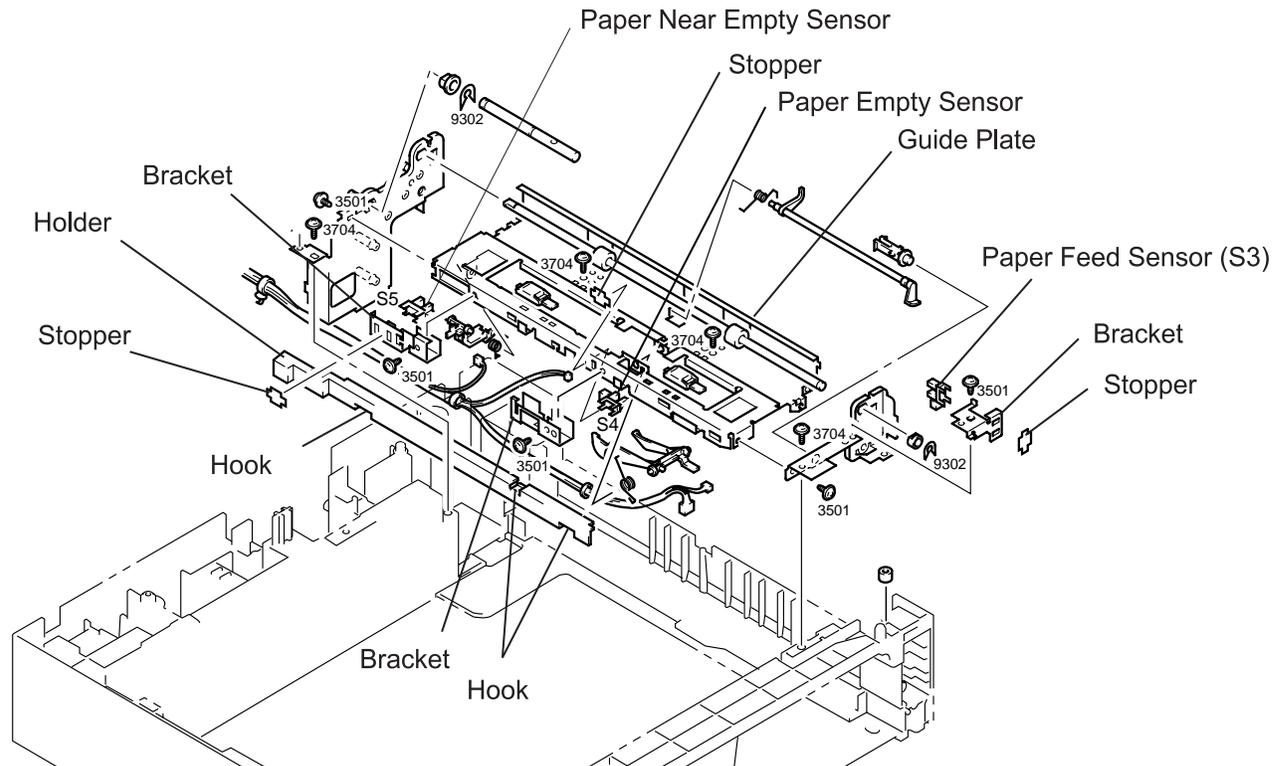


Figure 1-8. Removal of the Paper Empty / Paper Near Empty / Paper Feed Sensors

### 1.2.5 Paper Size Sensor (Paper Size Switch) Removal

1. Remove three screws (3704) securing the paper size sensor bracket to the frame in the Double Cassette Unit, and remove the bracket along with the paper size sensor.
2. Remove the screw (3501) securing the paper size sensor cover to the bracket and remove the cover from the bracket.
3. Release the hook securing the Paper Size Sensor to the inner bracket and remove the sensor from the bracket.
4. Disconnect the harness from the Paper Size Sensor.

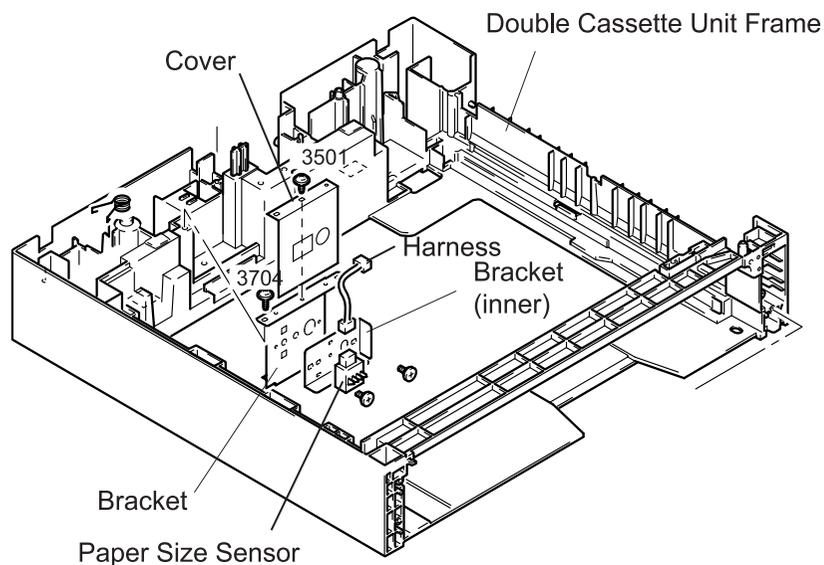


Figure 1-9. Paper Size Sensor Removal

### 1.2.6 Controller Board (PWB-A) Removal

1. Remove the screw (3727) securing the cover and remove the cover.
2. Remove harnesses from the connectors on the PWB-A.
3. Remove two screws (3501) securing the PWB-A to the bracket and the PWB support, and remove the PWB-A.

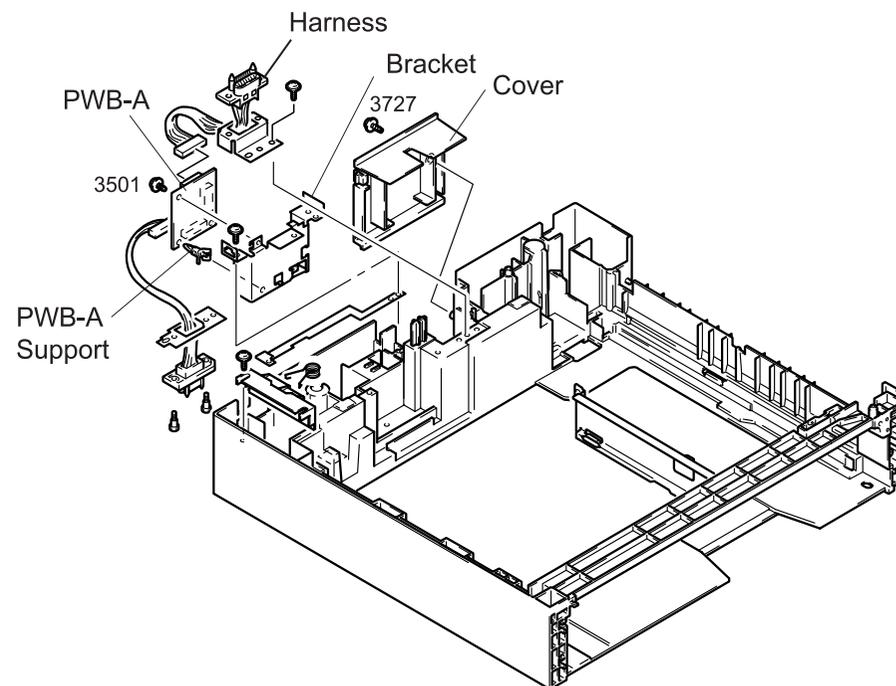


Figure 1-10. PWB-A Removal

## 1.2.7 Paper Take-up Solenoid Removal

1. Remove the tension spring hooked to the gear 31T.
2. Remove the screw (3501) securing the paper take-up solenoid cover to the bracket and remove the cover.
3. Remove the screw (3501) securing the Paper Take-up Solenoid to the bracket and remove the solenoid from the bracket.
4. Disconnect the harness from the connector on the solenoid.

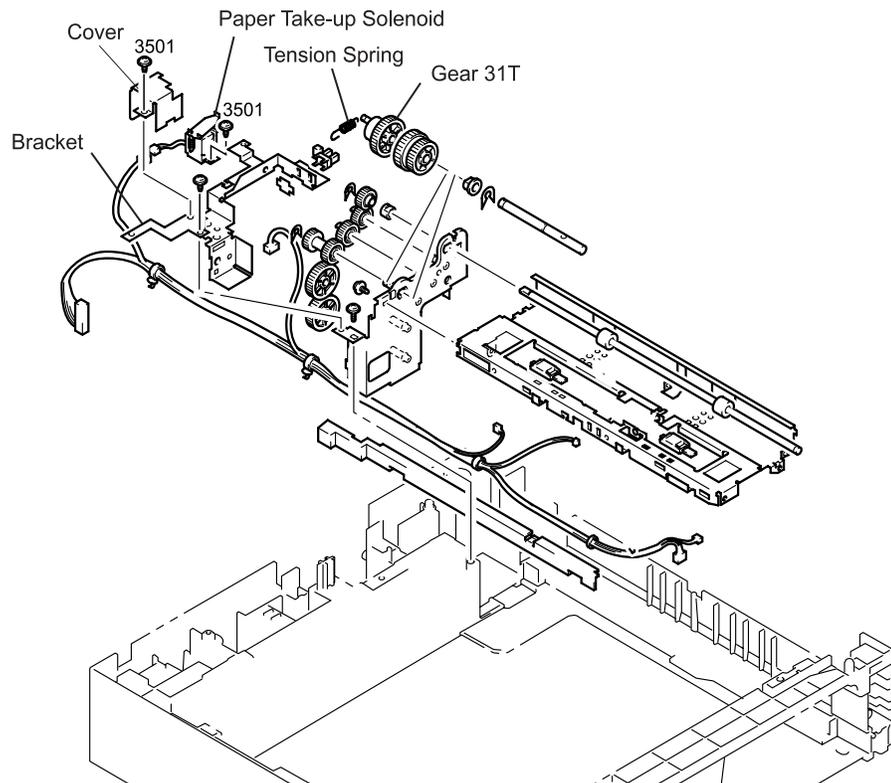
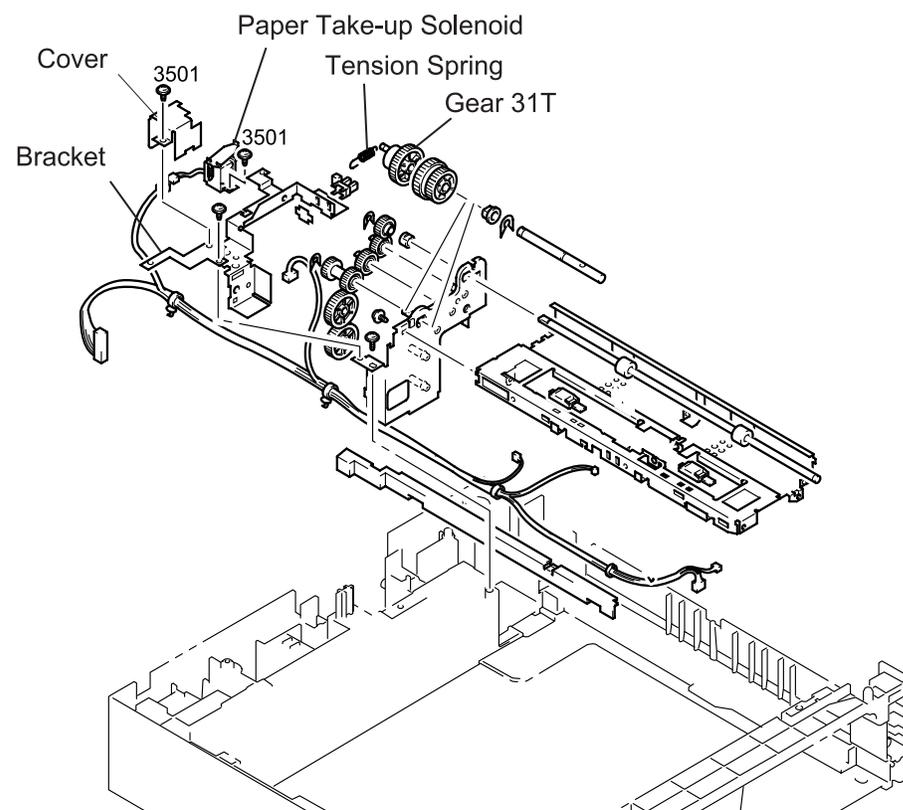


Figure 1-11. Paper Take-up Solenoid Removal

## 1.2.8 Right Door Set Sensor Removal

1. Remove the tension spring hooked to the gear 31T.
2. Remove two screws (3704) securing the PWB-A board bracket to the Double Cassette Unit Frame and remove the bracket. (See Section 1.2.7.)
3. Remove the screw (3501) securing the plate spring to the bracket and remove the plate spring from the bracket.
4. Remove the following screws:
  - Two screws (3704) securing the solenoid bracket to the Double Cassette Unit Frame.
  - Four screws (3704) securing the Paper Take-up Mechanism (including the axle plate, guide plate, and bracket) to the 2nd Cassette Frame.
  - The screw (3501) securing the rail and axle plate.
5. Lift up the Paper Take-up Solenoid and bracket.
6. Remove two screws (3501) securing the solenoid bracket to the Paper Take-up mechanism and remove the solenoid bracket.
7. Remove the stopper securing the Right Door Set Sensor to the solenoid bracket.
8. Release the hook fixing the Right Door Set Sensor to the solenoid bracket and remove the sensor.
9. Disconnect the harness from the connector on the Right Door Set Sensor.



**Figure 1-12. Right Door Set Sensor Removal**

## 1.3 Maintenance of the Double Cassette Unit

The maintenance method of the Double Cassette Unit is mostly the same as for the printer body. Therefore, this section only describes the method specific to the Double Cassette Unit.



**Do not use any solvent, including alcohol.**

### 1.3.1 Cleaning the Paper Take-up Roller

1. Remove the Paper Take-up Roller. (Refer to Section 1.2.1.)
2. Wipe the Paper Take-up Roller with a soft cloth moistened with water.

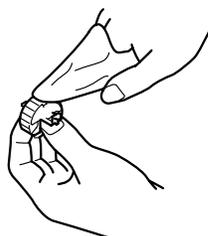


Figure 1-13. Cleaning the Paper Take-up Roller

### 1.3.2 Cleaning the Transport Roller

1. Open the side cover.
2. Wipe the Transport Roller with a soft cloth moistened with water.

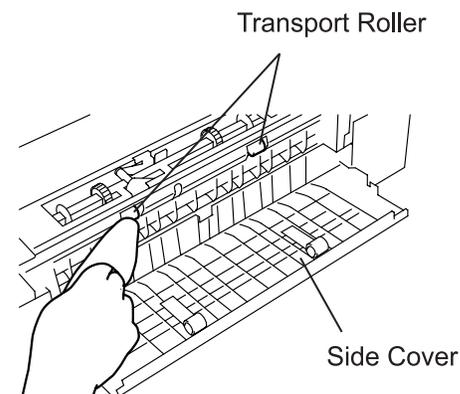


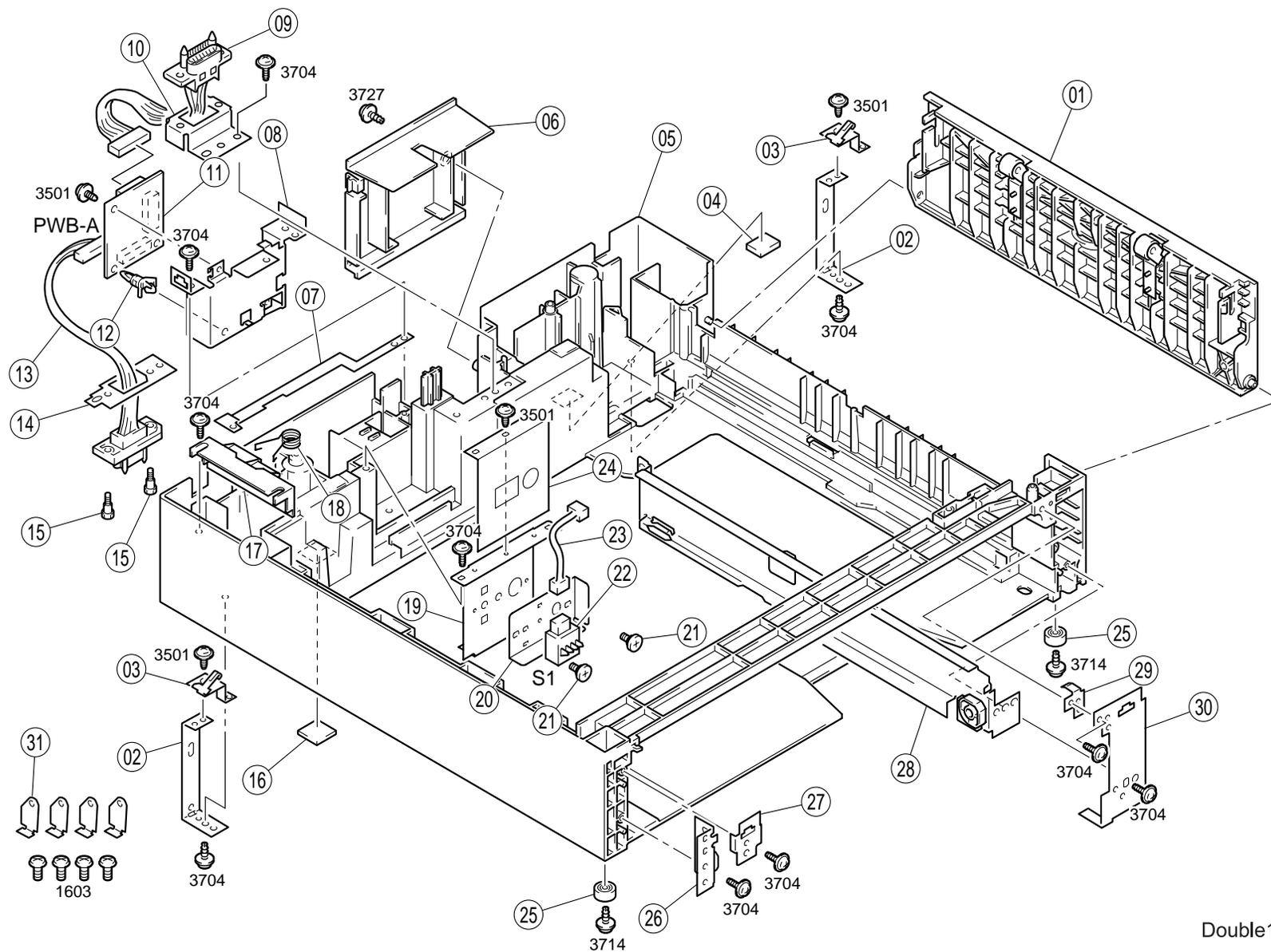
Figure 1-14. Cleaning the Transport Roller

## 1.4 Exploded Diagrams for Double Cassette Unit

### 1.4.1 Housing

Table 1-1. Part List - Housing

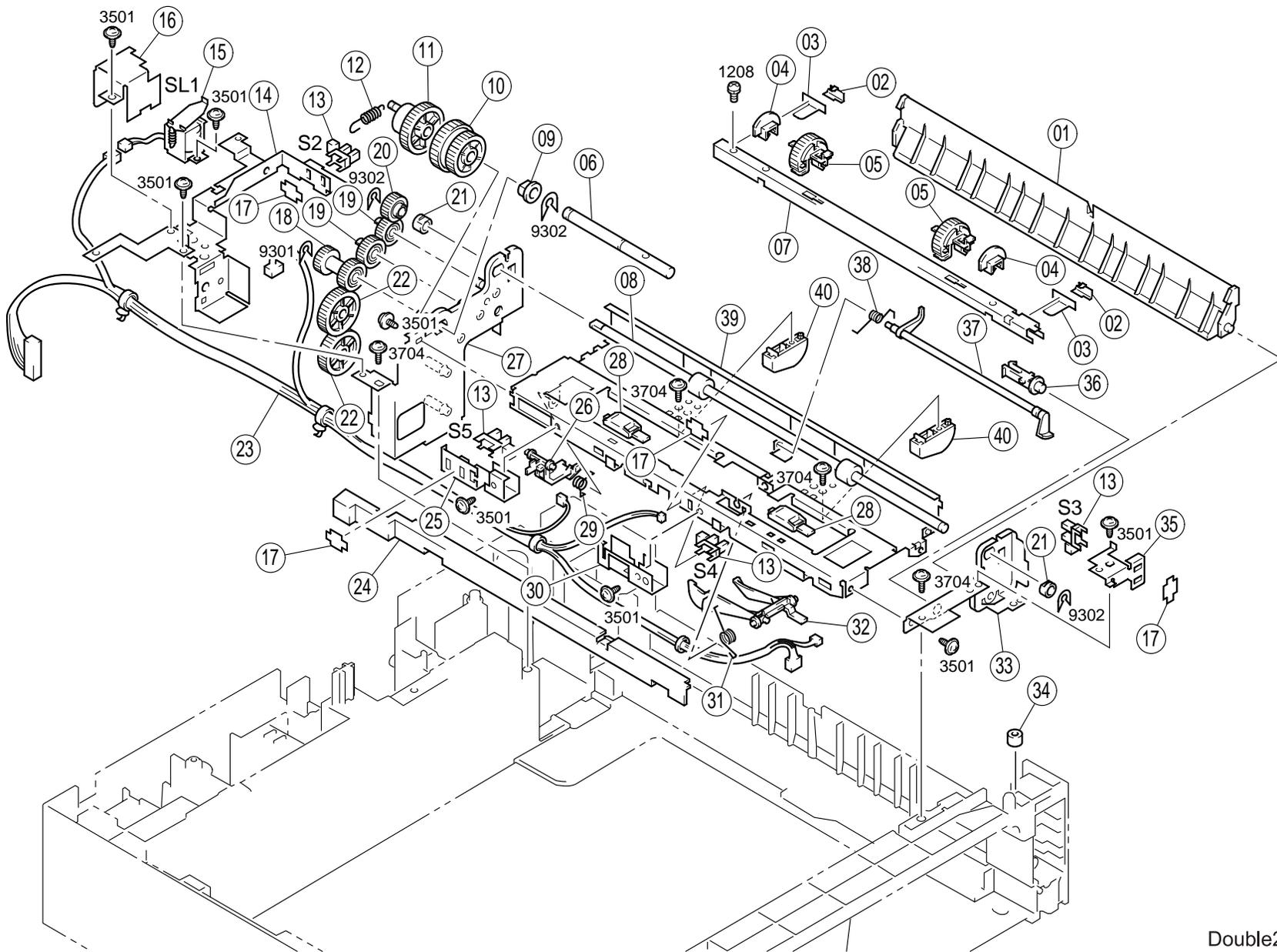
No.	Part Name	No.	Part Name
01	GUIDE	17	HOLDER
02	BRACKET	18	SPRING
03	PLATE SPRING	19	BRACKET
04	RUBBER FOOT	20	BRACKET
05	FRAME	21	SHOULDER SCREW
06	COVER	22	SWITCH, SIZE (S1)
07	GROUND PLATE	23	HARNESS
08	BRACKET	24	COVER
09	HARNESS	25	RUBBER FOOT
10	BRACKET	26	BRACKET
11	PW BOARD-A, MAIN (PWB-A)	27	BRACKET
12	PWB SUPPORT 6.35H	28	RAIL
13	HARNESS	29	PLATE SPRING
14	BRACKET	30	BRACKET
15	SHOULDER SCREW	31	HOLDER
16	RUBBER FOOT	-	-



## 1.4.2 Paper Take-up Section

Table 1-2. Part List - Paper Take-up Section

No.	Part Name	No.	Part Name
01	GUIDE PLATE	21	BUSHING
02	HOLDER	22	GEAR 34T
03	POLYESTER FILM	23	HARNESS
04	COLLAR	24	HOLDER
05	ROLLER	25	BRACKET
06	SHAFT	26	LEVER
07	AXLE PLATE	27	AXLE PLATE
08	ROLLER	28	SPACER
09	BUSHING	29	TORSION SPRING
10	GEAR 30/36T	30	BRACKET
11	GEAR 31T	31	TORSION SPRING
12	TENSION SPRINT	32	ACTUATOR
13	PHOTO INTERRUPTER (2S-5)	33	BRACKET
14	BRACKET	34	COLLAR
15	SOLENOID, TAKE-UP (SL1)	35	BRACKET
16	BRACKET	36	SHAFT
17	STOPPER	37	ACTUATOR
18	GEAR 16/20T	38	TORSION SPRING
19	GEAR 20T	39	GUIDE PLATE
20	GEAR 18T	40	GUIDE

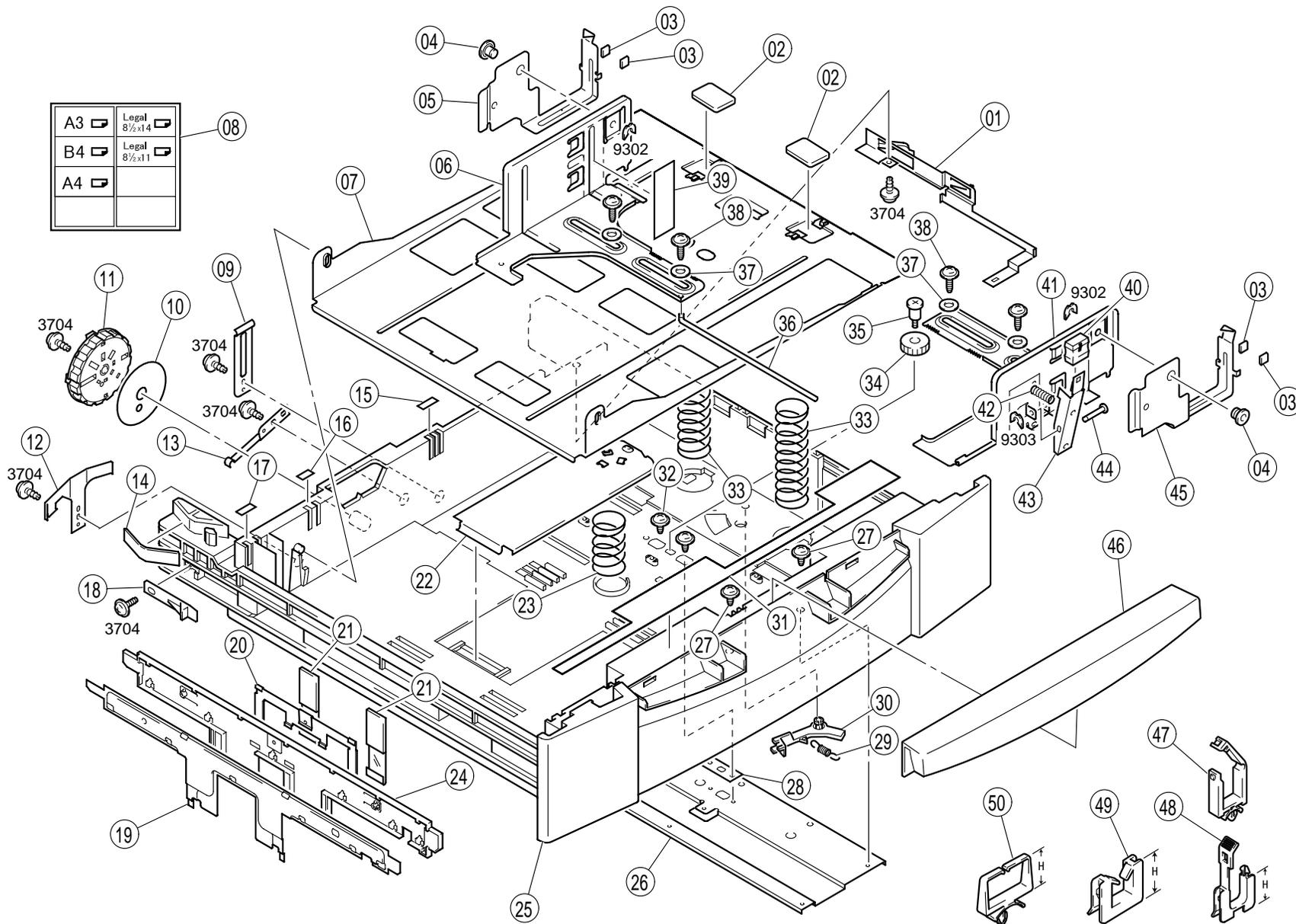


Double2

### 1.4.3 Paper Tray Unit

Table 1-3. Part List - Paper Tray Unit

No.	Part Name	No.	Part Name	No.	Part Name
01	GROUND PLATE	18	STOPPER	35	SHOULDER SPRING
02	CORK	19	REINFORCE PLATE	36	SHAFT
03	COLLAR	20	PLATE SPRING	37	WASHER
04	HOLD PLATE	21	SHEET	38	SCREW
05	GUIDE PLATE	22	LIFTING PLATE	39	LABEL MAX LEVEL
06	REGULATING PLATE	23	PRESSURE SPRING	40	KNOB
07	LIFTING PLATE	24	REGULATING PLATE	41	REGULATING PLATE
08	LABEL PAPER SIZE	25	CASSETTE BODY	42	PRESSURE SPRING
09	PLATE SPRING	26	REINFORCE PLATE	43	LAVER
10	LABEL PAPER SIZE	27	SCREW	44	SHAFT
11	LEVER	28	PLATE	45	GUIDE PLATE
12	PLATE SPRING	29	TENSION SPRING	46	HANDLE
13	PLATE SPRING	30	LEVER	47	WIRING SADDLE 5.2H
14	FRICTION SHEET	31	LABEL CASSETTE	48	EDGE COVER 15.4H
15	LABEL	32	SCREW	49	EDGE COVER 8.5H
16	LABEL	33	PRESSURE SPRING	50	WIRE SADDLE 6.4H
17	LABEL	34	GEAR 14T	-	-



**CHAPTER**

**2**

**DUPLEX UNIT**

## 2.1 Installing the Duplex Unit

This section describes how to install the Duplex Unit to the printer main body. Note you are required to remove optional units such as the Duplex Unit when servicing the printer. The procedure for removing the Duplex Unit is not included since you can remove it by reversing the installation procedure.

1. Open the packing carton and get a Duplex Unit and a user's manual.

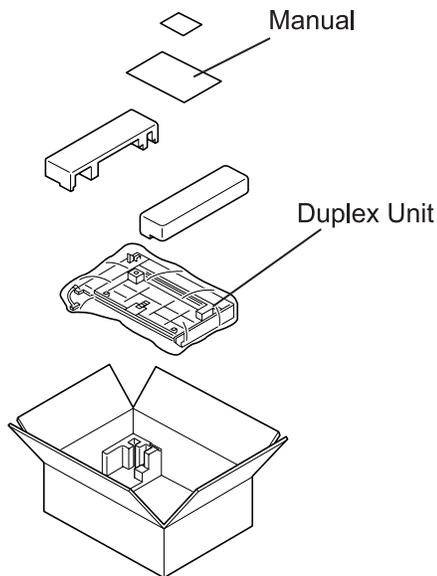


Figure 2-1. Unpacking



After removing the packing materials, please keep them out of children's reach.

2. Remove the protection materials and tapes from the Duplex Unit.
3. Turn the printer power off and disconnect the AC power cable and interface cable.
4. Remove the plastic cover covering the harness connecting the duplex unit to the printer main body.
5. Remove the screw (3541) securing the CN cover to the rear right corner of the printer body and remove the CN cover.

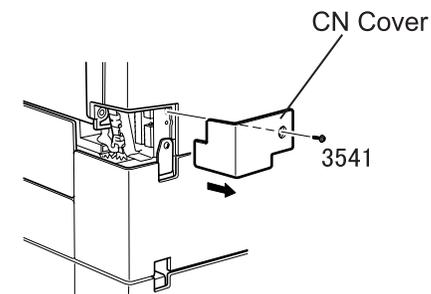


Figure 2-2. CN Cover Removal

6. Remove the screw (3727) securing the gear cover to the fuser cover and remove the gear cover.

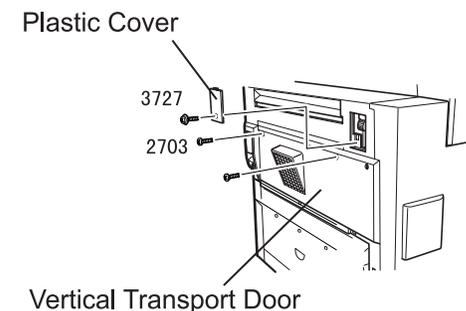


Figure 2-3. Plastic Cover Removal

7. Remove two screws (2703) attached to the vertical transport door.
8. Remove two screws (3727) securing the vertical transport support cover to the bottom part of the printer and remove the vertical transport support cover.

Vertical Transport Support Cover

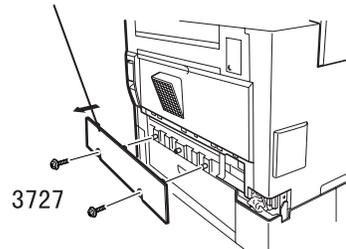


Figure 2-4. Support Cover Removal

9. Using a phillips screw driver, secure the install the Duplex Unit to the vertical transport door using two screws included with the Duplex Unit.

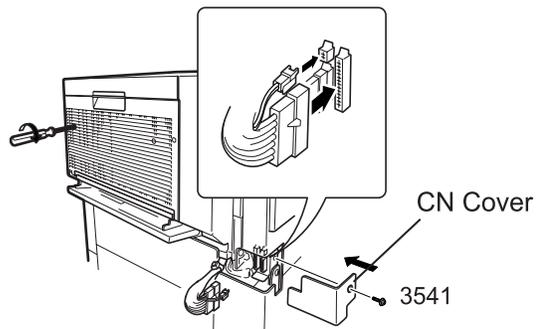
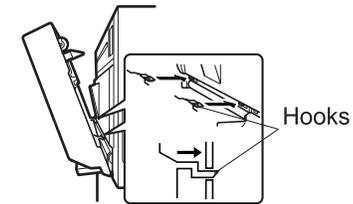


Figure 2-5. Duplex Unit Installation

10. Connect the harness from the Duplex Unit to the connector on the printer main body.
11. Fasten three screws (3727) (attachment of the unit) to secure the new sub cover included with the Duplex Unit to the printer.
12. Fasten the screw (3541) to fix the CN cover to the printer.



- **When placing the Duplex Unit, make sure two hooks securely fit in the installation holes on the printer.**



- **Before attaching the CN cover, make sure printer connection harness is securely connected**

13. Connect the interface cable and the AC power cable to the printer and turn the printer on.

## 2.2 Disassembly and Assembly of the Duplex Unit

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### 2.2.1 Duplex Unit Door Set Sensor Removal

1. Remove the Duplex Unit. (Refer to Section 2.1.)
2. Open the Duplex Unit Door.
3. Remove the stopper securing the door set sensor to the Duplex Unit Frame and unhook the sensor from the frame.
4. Disconnect the harness from the connector on the sensor.

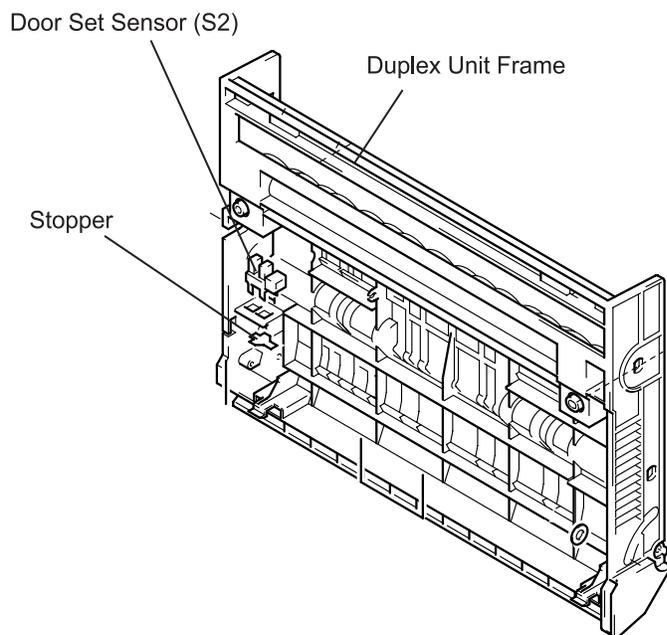


Figure 2-6. Paper Take-up Roller Removal

## 2.2.2 Main Board Removal

1. Remove the Duplex Unit. (Refer to Section 2.1.)
2. Remove two screws securing the cover to the Duplex Unit.
3. Open the Duplex Unit door and release two hooks securing the cover to the Duplex Unit Frame, and remove the cover.
4. Disconnect the harness from the connector on the Main Board.
5. Remove two screws (3504) securing the Main Board to the Duplex Unit and remove the Main Board.

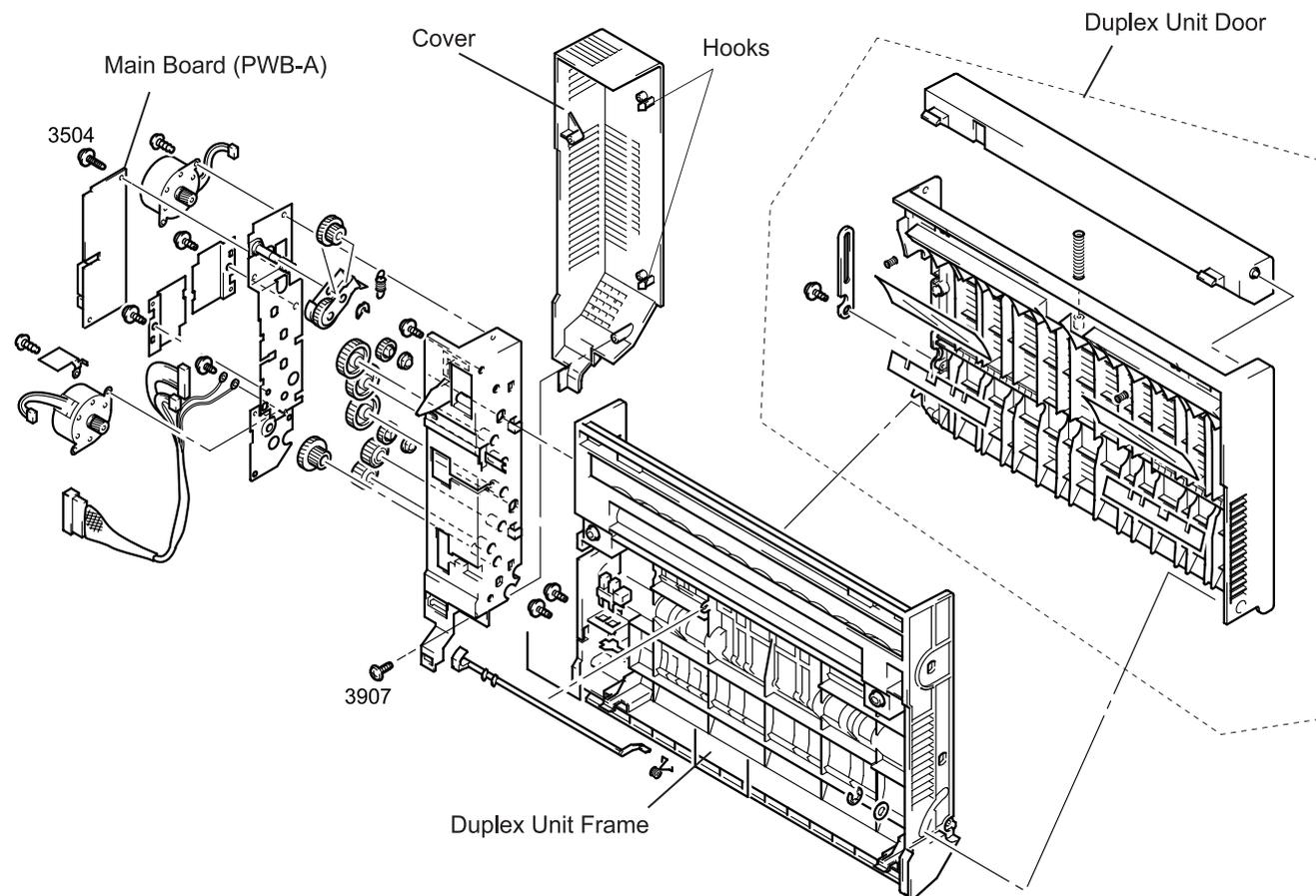


Figure 2-7. Main Board Removal

### 2.2.3 Switch Back Motor Removal

1. Remove the Duplex Unit. (Refer to Section 2.1.)
2. Remove two screws (3907) securing the cover to the Duplex Unit.
3. Open the Duplex Unit door and release two hooks fixing the cover to the Duplex Unit frame. Then remove the cover.
4. Remove the harness for the Switch Back Motor from the connector on the Main Board.
5. Remove two screws (3104) securing the Switch Back Motor to the Duplex Unit and remove the Switch Back Motor.

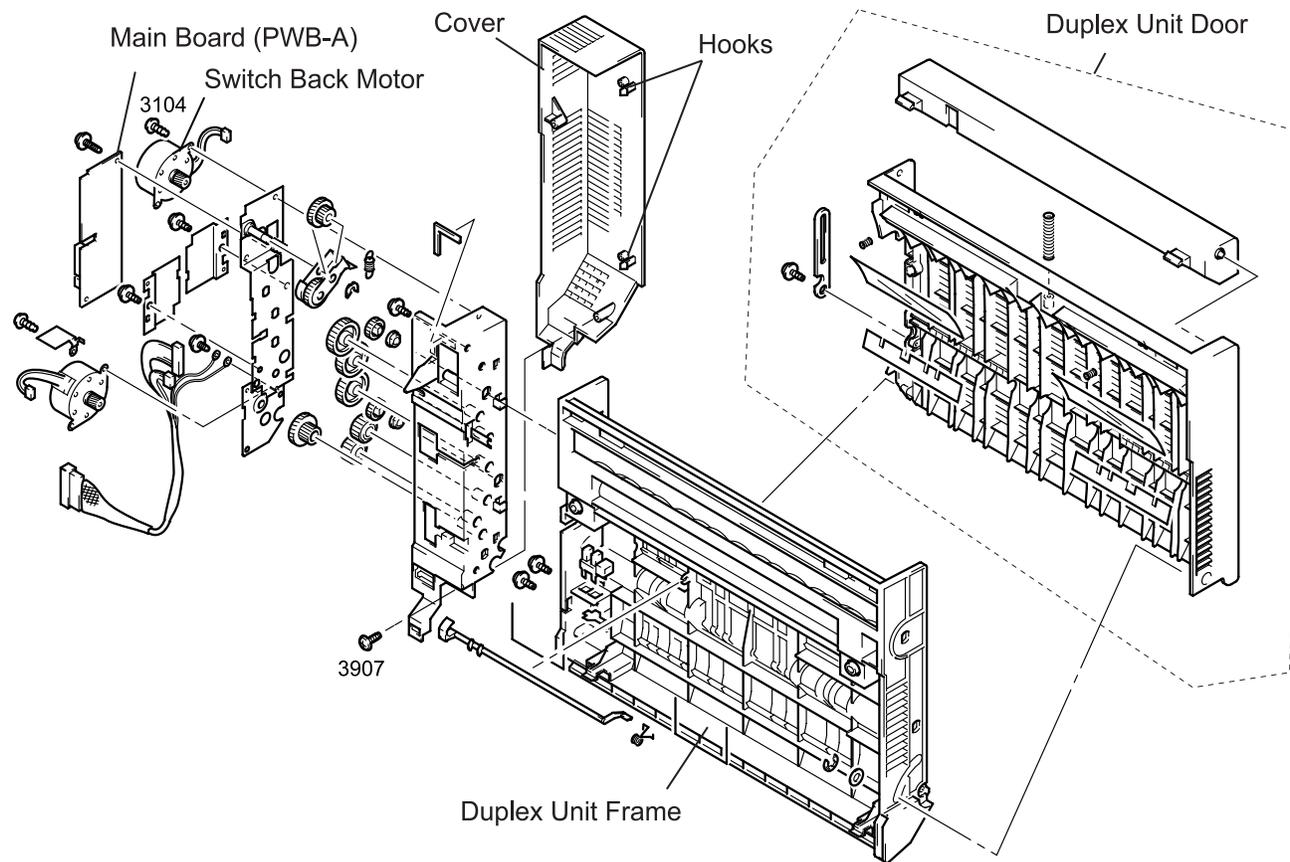


Figure 2-8. Switch Back Motor Removal

## 2.2.4 Transport Motor Removal

1. Remove the Duplex Unit. (Refer to Section 2.1.)
2. Remove two screws (3907) securing the cover to the Duplex Unit.
3. Open the Duplex Unit door and release two hooks fixing the cover to the Duplex Unit frame. Then remove the cover.
4. Remove the harness for the Transport Motor from the connector on the main board.
5. Remove two screws (3104) securing the Transport Motor to the Duplex Unit and remove the Transport Motor and the plate.

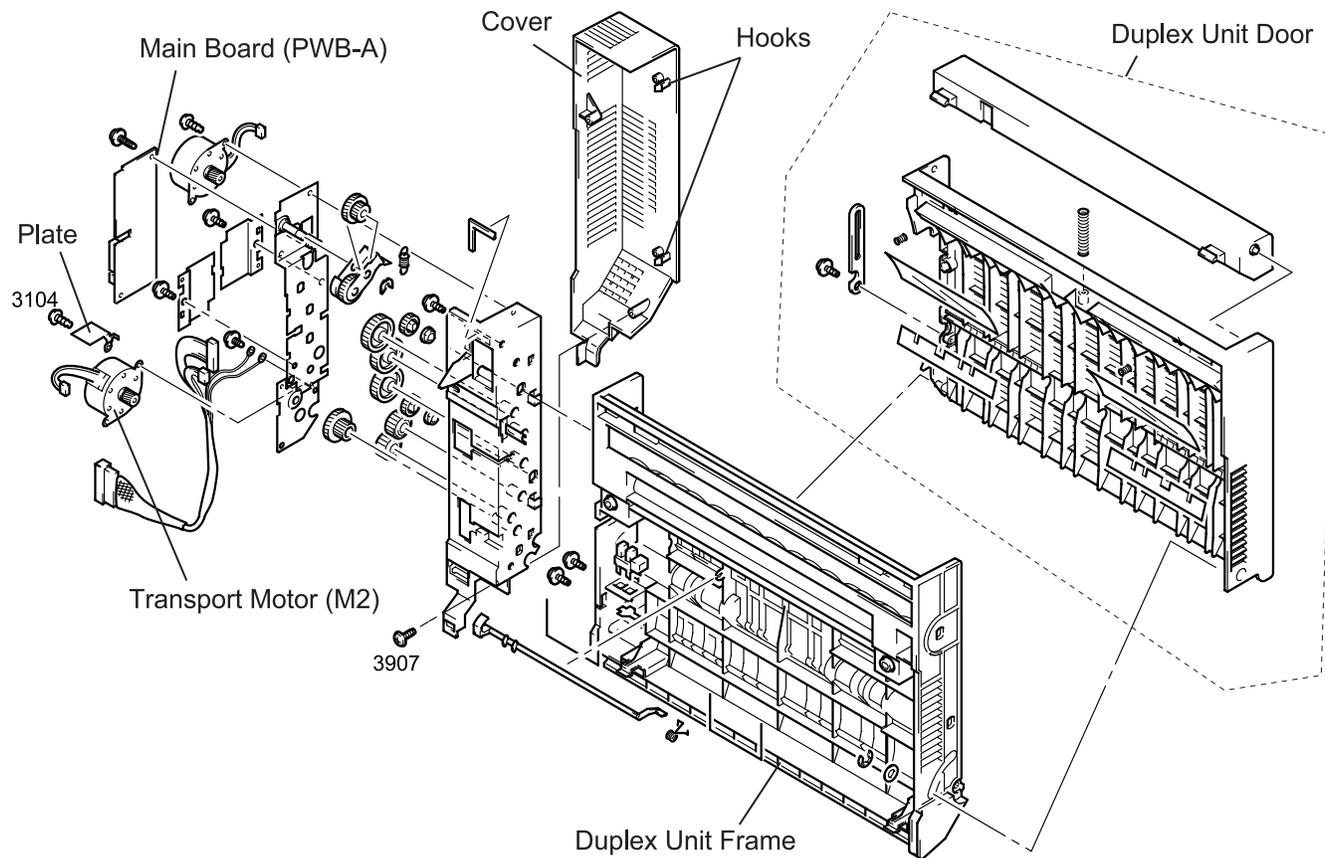
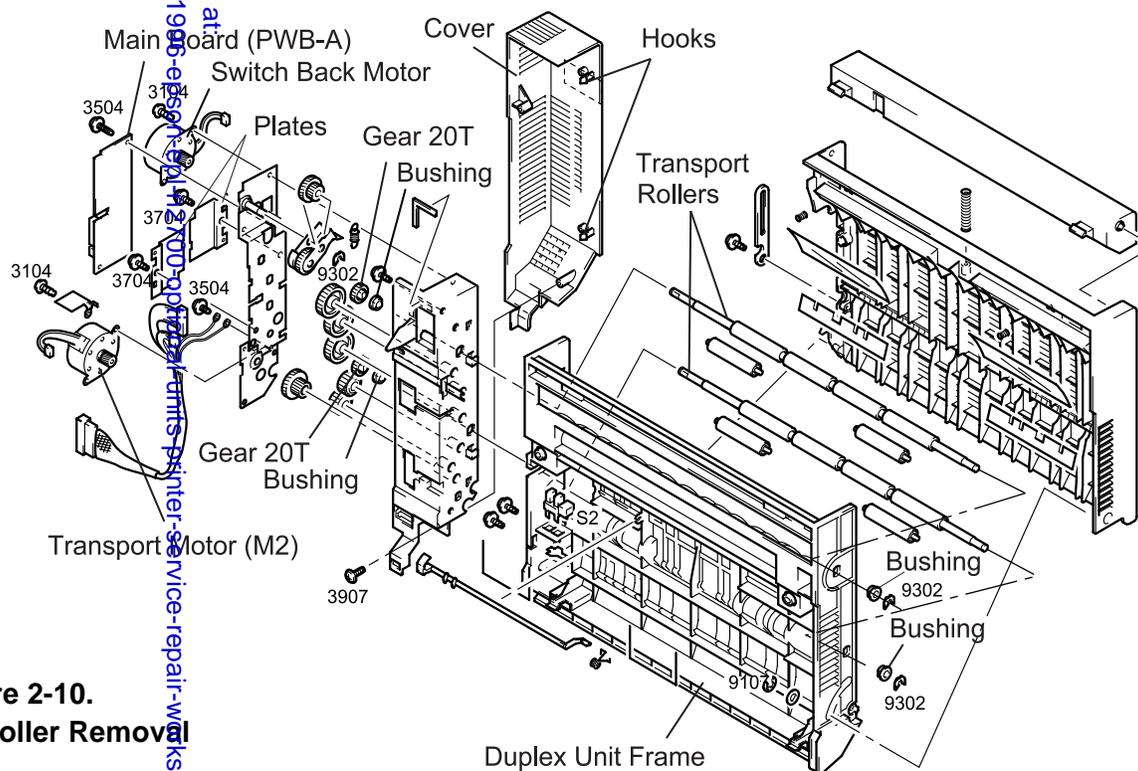


Figure 2-9. Transport Motor Removal

## 2.2.5 Transport Roller Removal

1. Remove the Duplex Unit. (Refer to Section 2.2.1.)
2. Remove two screws (3907) securing the cover to the Duplex Unit.
3. Open the Duplex Unit door and release two hooks fixing the cover to the Duplex Unit frame. Then remove the cover.
4. Remove the Main Board. (Refer to Section 2.2.2.)
5. Remove the Switch Back Motor. (Refer to Section 2.2.3.)
6. Remove the Transport Motor. (Refer to Section 2.2.4.)
7. Remove the screw (3504) securing the ground cable to the axle plate and remove the ground cable.
8. Remove three screws (3704) securing two plates to the holder through the axel plate and remove the plates and the axel plate.
9. Release the hooks on the gears 20T attached to the Transport Rollers and remove the gears 20T and the bushings.
10. Remove the E-ring (9302) from each transport roller shaft and remove the bushing from the transport roller shaft.
11. Remove the Transport Rollers from the Duplex Unit.



**Figure 2-10.**  
Transport Roller Removal