Container Stacker

Maintenance Manual

Nov., 2005

N901403

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DDP70/DDP92/DDP184

Container Stacker

Maintenance Manual

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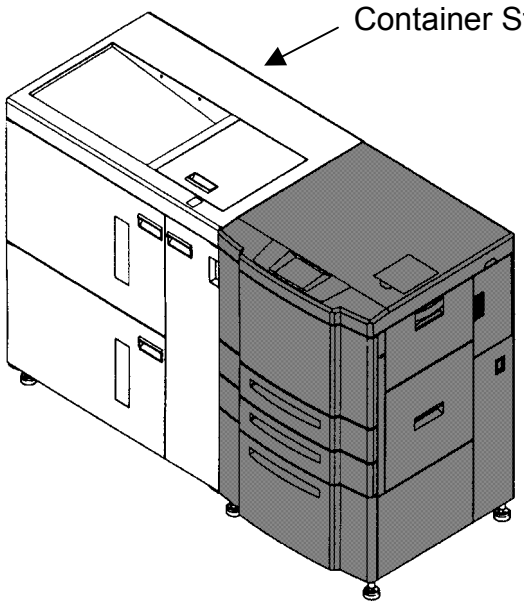

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DDP70 / DDP92 / DDP184 Container Stacker

Maintenance Manual

N901403

Revisions

Rev. for manual	Machine Rev.	Page No. (Contents)	Date
00	-	First Edition	June,2005
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Contents

Chapter1 Outlines

1.1. Characteristics

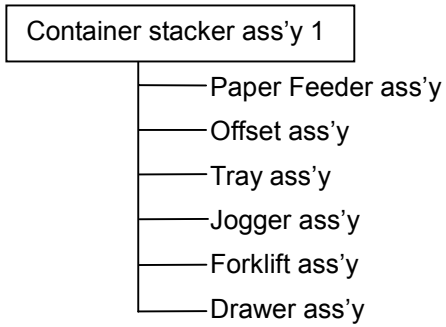
(1)Two types of container stackers are available.
Container stacker ass'y 1: Standard configuration including the 100-sheet sample tray
Container stacker ass'y 2: Add-on configuration including the add-on paper feeder unit instead of the sample tray
(2)High capacity with two 1500-sheet trays
(3)Offset stacking is available.
(4)Various sizes of paper are available.

1.2. Specifications

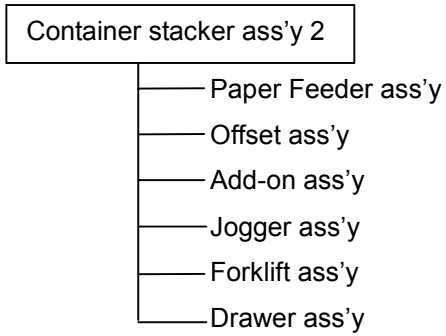
Stacking speed; 70 or 92 pages/minute (Letter, A4/LEF)
Dimensions; 916 X 1008 X 622 mm (container stacker ass'y 1 and 2)
Weight; Container stacker ass'y 1(including sample tray) 147 kg
Container stacker ass'y 2(including add-on paper feeder unit) 155 kg
Paper; Container stacker
(1)Small basket: A4LEF, B5LEF, letterLEF, free-size paper
(182 to 305 mm in width and 182 to 216 mm in length)
(2)Large basket: A4, A3, B5, B4, letter, legal, ledger, free-size paper
(182 to 305 mm in width and 182 to 432 mm in length)
(Note)Limited to the same size.
(3)Sample tray: Free-size paper (A5 to 12 X 18"), tab paper (9 X 11")
(140 to 305 mm in width and 182 to 457 mm in length)
Ream weight; 16 to 42 lbs. (60g/m^2 to 157 g/m^2), 110 lbs. index paper (199 g/m^2)

1.3. Configurations

(1)Container stacker ass'y 1(including sample tray)



(2)Container stacker ass'y 2 (including add-on paper feeder unit)

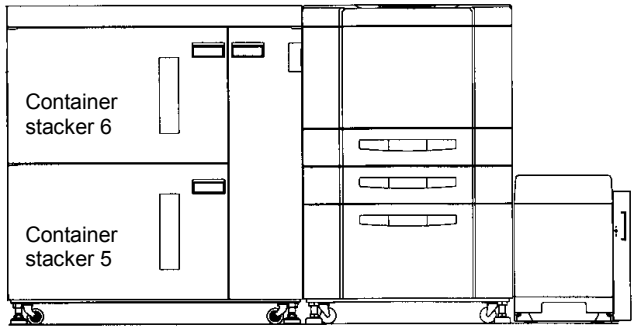


1.4. Types of configurations

This container stacker is configurable into any of the following three configurations in combination with the DDP70/92/184.

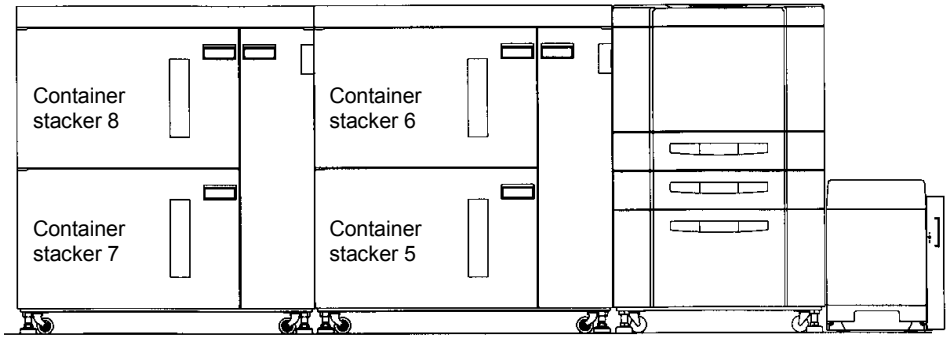
*: These figures show a connection of the DDP70 and the standard finisher designed for the DDP70.

(1) DDP70/92/184 + Container stacker ass'y 1 (including sample tray)



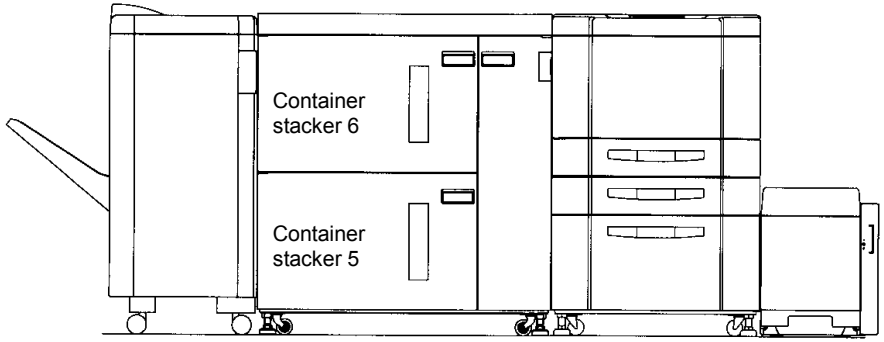
Container stacker ass'y 1 (including sample tray) | DDP70/92/184

(2) DDP70/92/184 + Container stacker ass'y 1 (including sample tray) + Container stacker ass'y 2 (including add-on paper feeder unit)



Container stacker ass'y 1 (including sample tray) | Container stacker ass'y 2 (including add-on paper feeder unit) | DDP70/92/184

(3) DDP70/92/184 + Container stacker ass'y 2 (including add-on paper feeder unit) + Standard finisher



*Standard finisher | Container stacker ass'y 2 (including add-on paper feeder unit) | DDP70/92/184

Chapter 2. Safe Handling of the Container Stacker

This chapter describes the rules for safe handling of the container stacker which must be strictly observed by all maintenance personnel. Before conducting maintenance and inspection of the container stacker, fully comprehend the following.

1. Before conducting maintenance or inspection, be sure to turn off the MAIN AC POWER switch.
2. Make sure that the grounding cable is connected securely to the grounding terminal of the container stacker.
3. If it is absolutely necessary to work with the MAIN AC POWER switch turned on, observe the following:
   (a) Have one person watch while the work is being performed so that the person can turn off the MAIN AC POWER switch at anytime if necessary.
   (b) Never allow two or more persons to work at the same time. It is very dangerous if the drive unit starts operation suddenly.
   (c) Never wear a ring, wristwatch, cuff link, bracelet, metal fastener or any other metallic objects.
   (d) Be sure not to lose or misuse screws. It is good practice to put a sheet of paper under a portion where it is difficult to find small parts if dropped. Make it a rule to put screws back to their original places immediately after removal of a part.
   (e) Be particularly careful not to let any tool or part drop into the container stacker.
4. Whenever working near a rotating part, stop the rotation and ascertain the shape of it. The projection of a rotating part is very dangerous as it cannot be seen when rotating. During work, pay attention to ties, sleeves, shirts and long hair so that they may not be caught in the rotating part.
5. Before handling a movable part, make certain that it has completely stopped.
6. Wear eye protection whenever the following jobs are to be performed;
   (a) To hammer pins or rivets
   (b) To perform works using a hand drill
   (c) To mount or dismount springs
   (d) To perform soldering or cutting wires
   (e) To clean parts
7. In order to check the power supply of the printer, label the breaker nothing,"Do not switch the power ON" to prevent other personnel from turning it on by mistake when the switch on the breaker in the computer room has been put OFF.
8. Make sure that the power is turned off when replacing a PCB.
9. Store detached covers in a proper place to avoid other people from tripping or stumbling over them.
10. Do not leave any tool in the container stacker nor leave any tool on the floor. It is dangerous if a tool is dropped into the container stacker. Place tools under a desk or a table to avoid other people from tripping or slipping on them.
11. When you are going to move the container stacker, first check to see that no maintenance personnel or customers are around a dangerous position.
12. Be sure to observe the cautions specified in this Maintenance Manual and perform maintenance carefully.
13. Be sure that nobody touches the container stacker and carefully recheck if there is incorrect wiring, incorrect connections, or tools remaining on the container stacker before turning on the MAIN AC POWER switch.
14. Put all the covers of the container stacker back to their original positions and make the final checks without fail.
15. Make a general inspection of the container stacker before returning it to the customer.
16. After removing the Ground Cables, always install them to their original positions.

Chapter 3. General Information

This chapter describes cautions and general matters in relation to maintenance.

It is particularly essential to observe the precautions described in section 3.1.

3.1. Maintenance Precautions

(1) Thoroughly read through and understand the instructions described in Chapter 2 “Safe Handling of the Container Stacker” to handle the container stacker safely .

(2) Do not place any part such as screws on the upper cover as it may drop and get lost.

3.2. External view of Container Stacker

(1)Container Stacker Ass’y 1 (Sample tray)

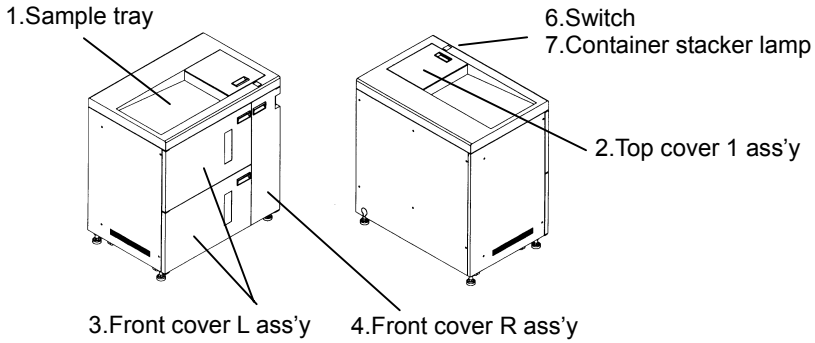


Fig. 3-1. External view of Container Stacker Ass’y 1

(2)Container Stacker Ass’y 2 (Including add-on paper feeder unit)

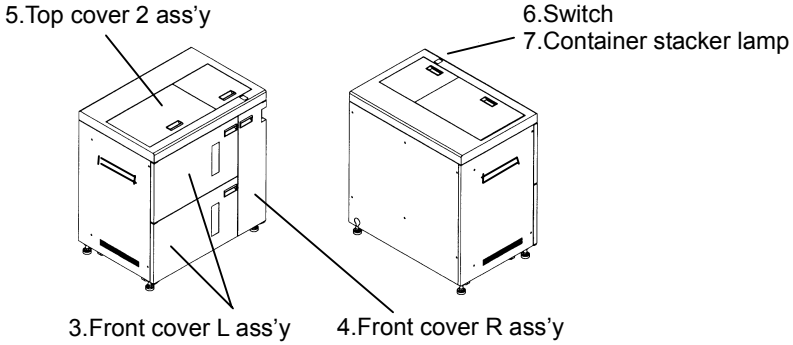


Fig. 3-2. External view of Container Stacker Ass’y 2

(3)MAIN AC POWER switch

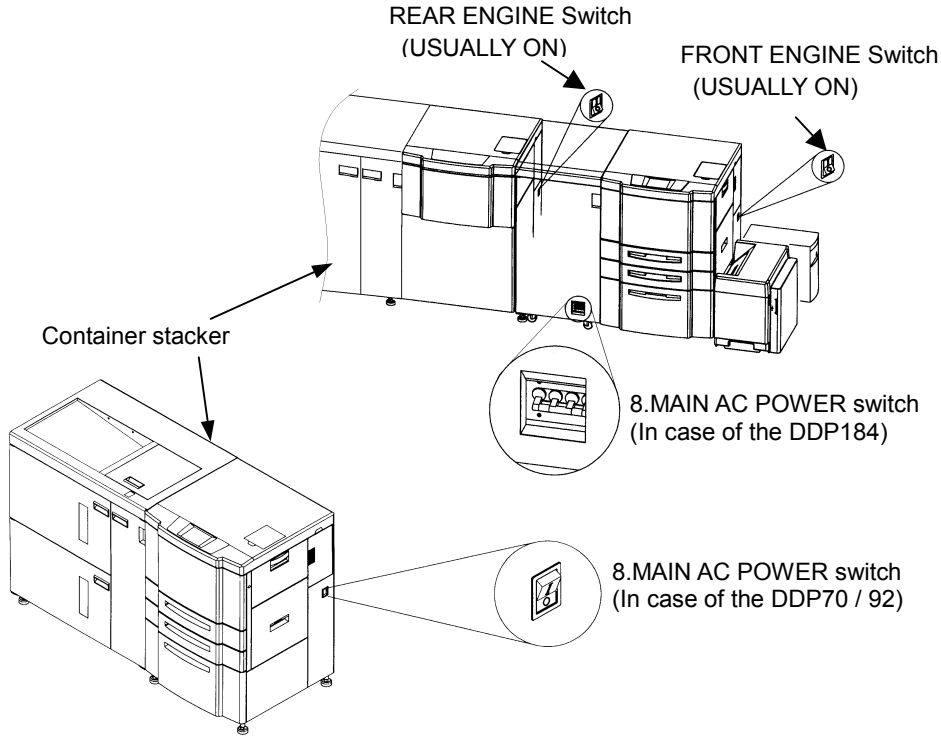


Fig. 3-3. Location of the MAIN AC POWER switch

1. Sample tray Dischages 100 sheets of paper.
2. Top cover 1 ass’y Open this cover if a paper jam occurs.
3. Front cover L ass’y Open this cover to remove stack of paper.
4. Front cover R ass’y Open this cover if a paper jam occurs.
5. Top cover 2 ass’y Open this cover if a paper jam occurs.
6. Switch Push this switch when taking out a paper.
7. Container stacker lamp It is possible to do the use and the non- use confirmation of container stacker.
8. MAIN AC POWER switch The power switch is to turn the printer,container stacker on and off.

3.3. Switches and Indicator Lamps

(1) Container stacker indicator lamp

1.Lights up Discharging paper to the stacker.
The paper of stacker is full of the time of the print standing-by.

2.Quick Blinks The table is moving down.

3.Slow Blinks The front cover cover(L) ass'y can be opened.
(The condition that a table has been unloaded most down.)

4.Goes out The stacker is not in operation.

(2) Switch

1.By pressing the switch of the container stacker that is not in operation, the table moves down and the paper can be removed.

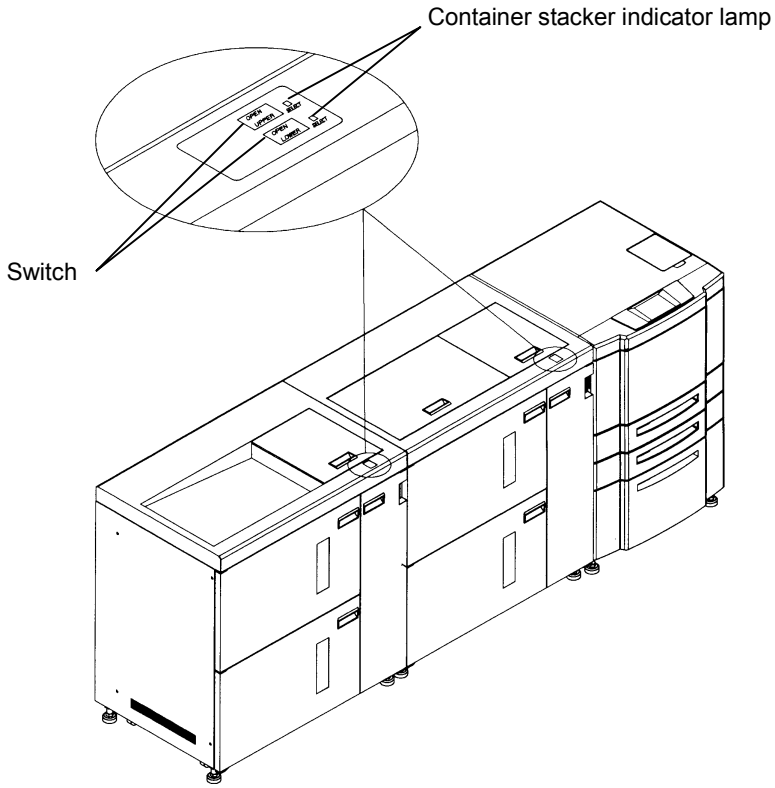
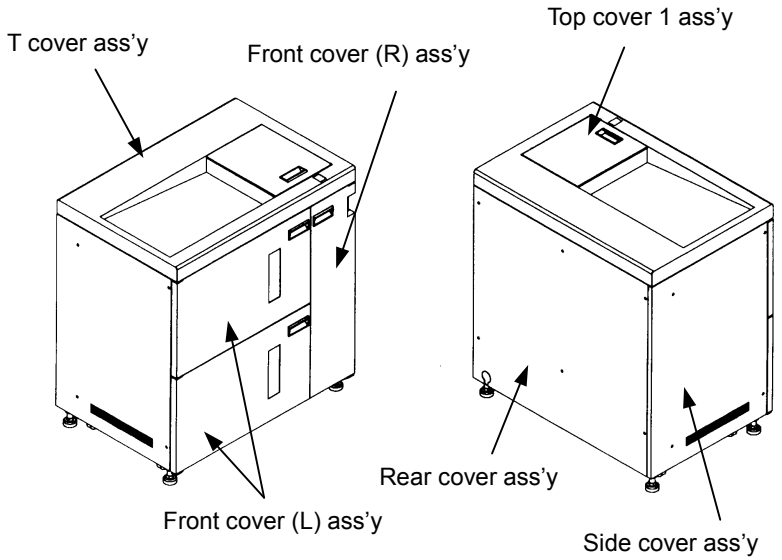


Fig. 3-4. Switch and indicator lamp locations

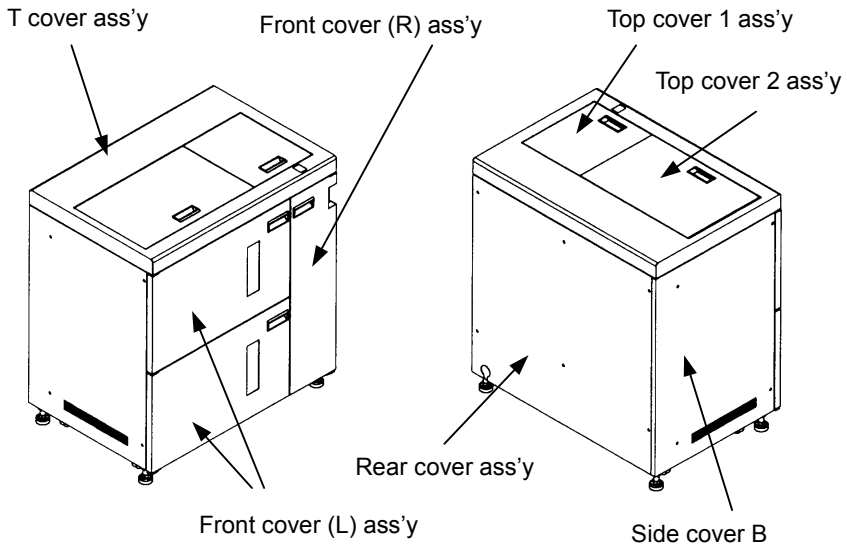
3.4. Covers

3.4.1 Cover locations and opening directions

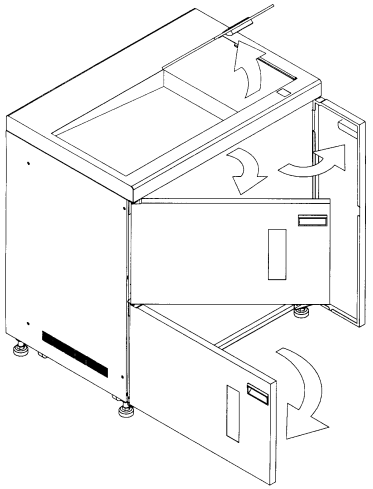
Container stacker ass'y 1 (including sample tray)



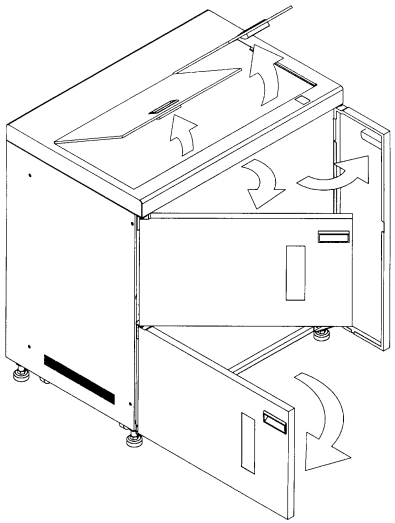
Container stacker ass'y 2 (including add-on paper feeder unit)



Container stacker ass'y 1 (including sample tray)



Container stacker ass'y 2 (including add-on paper feeder unit)



3.4.2 Removal of covers

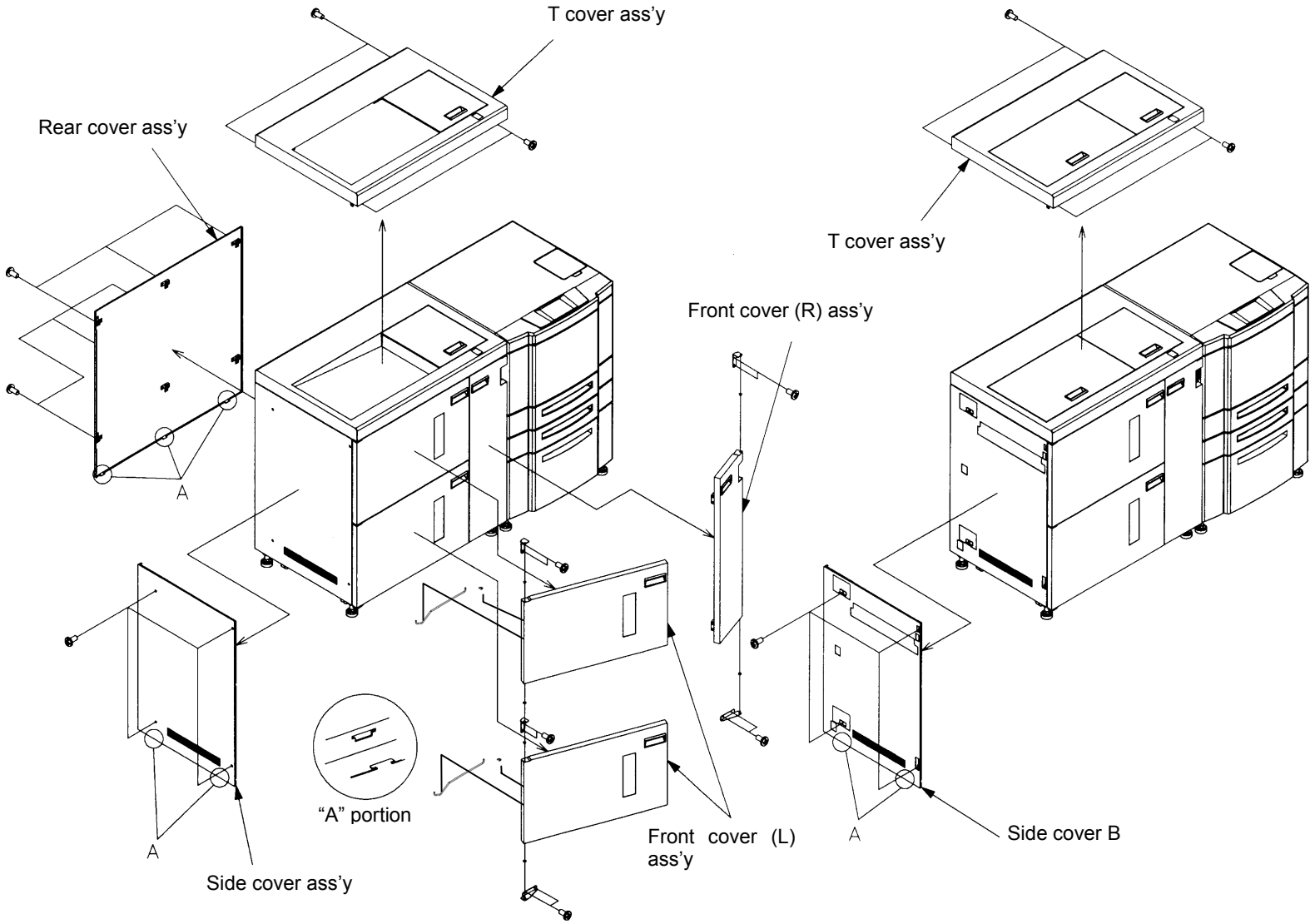


Fig. 3-7. Removal of covers

3.5. Tools Required

The tools which are necessary for maintenance of the container stacker are listed below.

Table 3-1. Names of general tools (Scale in metric)

No.	Name	Specification
1	Phillips screwdriver	No. 2 shaft length; approx. 100 mm
2	Phillips screwdriver	No. 2 long shaft length; approx. 300 mm
3	Phillips screwdriver	No. 2 short shaft length; approx. 40 mm
4	Flatblade screwdriver	Tip width; approx. 6 mm Shaft length; approx. 100 mm
5	Precision screwdriver set	Tip width; 2.0 to 2.5 mm
6	Hexagon wrench set	Width across flat; 1.4 mm (essential)
7	Long-nose chain plier with side cutter (Radio nipper)	
8	Adjustable open end wrench	Span; 30 mm

Table 3-2. Measuring instrument

No.	Name	Usage
1.	Multimeter	Measurement of voltage and resistance

Table 3-3. Consumables

No.	Name	Usage
1.	Clean, dry cloth	Cleaning contaminated areas of the container stacker
2.	Silicon grease (Shinetsu Silicon:G501)	The lubrication of the A operation part of linear sleeve

Table 3-4. Others

No.	Name	Usage
1.	Vacuum cleaner (toner proof)	Cleaning dusty areas in the container stacker

3.6. Motor, Solenoid Location

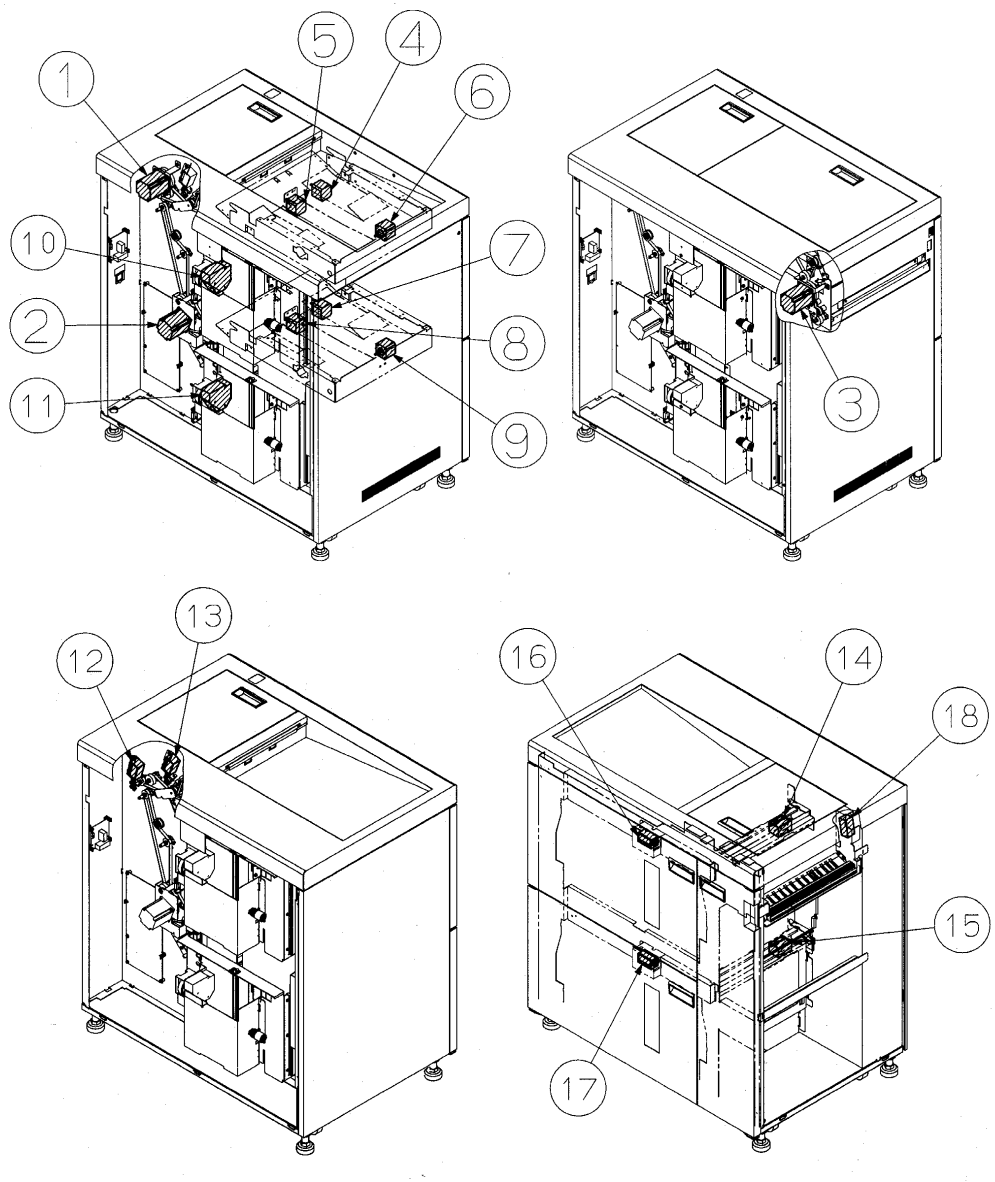


Figure 3-8 Motor, Solenoid Location

Table 3-5. Motor, Solenoid List

No.	Name	Mark	Ref. Item	Parts Catalog			Remark
				List	Item No.	Block	
1.	Upper Motor	M605	6.3.7	5	50	SM1	
2.	Lower Motor	M609	6.3.8	5	50	SM1	
3.	Option Feed Motor	M602	6.6.13	7	50	SM3	
4.	F Jogger Motor U	M606	6.1.14	3	7	SJ	
5.	R Jogger Motor U	M607	6.1.15	3	7	SJ	
6.	Stopper Motor U	M608	6.1.13	3	7	SJ	
7.	F Jogger Motor L	M612	6.1.14	3	7	SJ	
8.	R Jogger Motor L	M613	6.1.15	3	7	SJ	
9.	Stopper Motor L	M614	6.1.13	3	7	SJ	
10.	Table Motor U	M611	6.2.6	4	18,16*	SL	
11.	Table Motor L	M616	6.2.6	4	18,16*	SL	
12.	U-L Gate Solenoid	SL606	6.3.25	5	63	SM1	
13.	Additional Gate Solenoid	SL607	6.3.25	5	63	SM1	
14.	Offset Solenoid U	SL603	6.4.14	6	22	SM2	
15.	Offset Solenoid L	SL605	6.4.14	6	22	SM2	
16.	Drawer Lock Solenoid	SL602	6.8.10	1	33	S	
17.	Drawer Lock Solenoid	SL604	6.8.10	1	33	S	
18.	Decurler Solenoid	SL608	6.3.19	5	63	SM1	

* Use these parts only for RoHS (from S/N QXX604XXXXX)

3.7. Switch, Sensor Location

Table 3-6Switch, Sensor List

No.	Name	Mark	Ref. Item	Parts Catalog			Remark
				List	Item No.	Block	
1.	Paper Path Sensor 1	S611	6.3.3(2)	5	8	SM1	
2.	Paper Path Sensor 2	S612	6.3.3(1)	5	8	SM1	
3.	Paper Path Sensor 3	S613	6.4.7	6	61	SM2	
4.	Paper Path Sensor 4	S614	6.4.7	6	61	SM2	
5.	Paper Path Sensor 5	S615	6.6.2	7	14	SM3	
6.	Paper Path Sensor 6	S616	6.6.3	7	14	SM3	
7.	Paper Path Sensor 7	S630	6.3.3(1)	5	8	SM1	
8.	JAM Sensor U	S653	6.1.7 6.8.5	3	29	SJ	
9.	JAM Sensor L	S655	6.1.7 6.8.5	3	29	SJ	
10.	Table Height Sensor U	S620	6.1.6	3	13	SJ	
11.	Table Height Sensor L	S680	6.1.6	3	13	SJ	
12.	Paper Empty Sensor U	S657	6.1.8	3	30	SJ	
13.	Paper Empty Sensor L	S660	6.1.8	3	30	SJ	
			6.8.6	1	45	S	
14.	F Jogger Home Sensor U	S619	6.1.3	3	26	SJ	
15.	R Jogger Home Sensor U	S618	6.1.4	3	26	SJ	
16.	Stopper Home Sensor U	S617	6.1.2	3	26	SJ	
17.	F Jogger Home Sensor L	S679	6.1.3	3	26	SJ	
18.	R Jogger Home Sensor L	S678	6.1.4	3	26	SJ	
19.	Stopper Home Sensor L	S677	6.1.2	3	26	SJ	
20.	L Basket Sensor U	S634	6.8.8	1	43	S	
21.	S Basket Sensor U	S635	6.8.8	1	43	S	
22.	L Basket Sensor L	S633	6.8.8	1	43	S	
23.	S Basket Sensor L	S636	6.8.8	1	43	S	
24.	Stack 1000 Sensor U	S624	6.2.7	4	55	SL	
25.	Stack Full Sensor U	S626	6.2.7	4	55	SL	
26.	Stack 500 Sensor U	S623	6.2.7	4	55	SL	
27.	Table Lower Limit Sensor U	S627	6.2.7	4	55	SL	
28.	Table Over Load Sensor U	S628	6.2.2	4	42	SL	
29.	Table Upper Limit Sensor U	S629	6.2.7	4	55	SL	
30.	Stack 1000 Sensor L	S684	6.2.7	4	55	SL	
31.	Stack Full Sensor L	S686	6.2.7	4	55	SL	
32.	Stack 500 Sensor L	S683	6.2.7	4	55	SL	
33.	Table Lower Limit Sensor L	S687	6.2.7	4	55	SL	
34.	Table Over Load Sensor L	S688	6.2.2	4	42	SL	
35.	Table Upper Limit Sensor L	S689	6.2.7	4	55	SL	
36.	Top Cover SW	S605	6.8.4	1	52	S	
37.	Vertical Cover SW	S606	6.8.7	1	49	S	
38.	Front Cover SW U	S607	6.8.9	1	44	S	
39.	Front Cover SW L	S608	6.8.9	1	44	S	

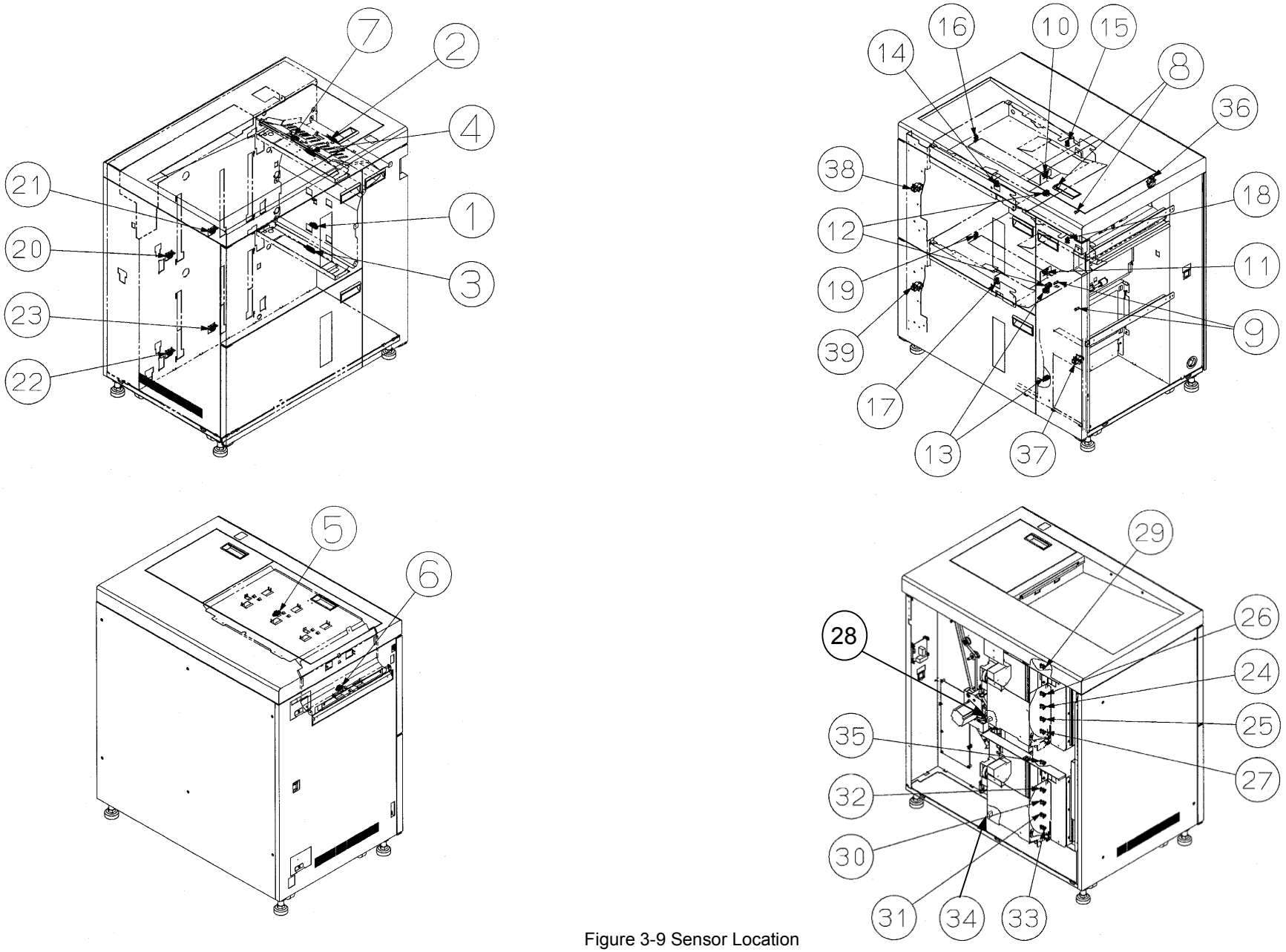


Figure 3-9 Sensor Location

3.8. Block Wiring

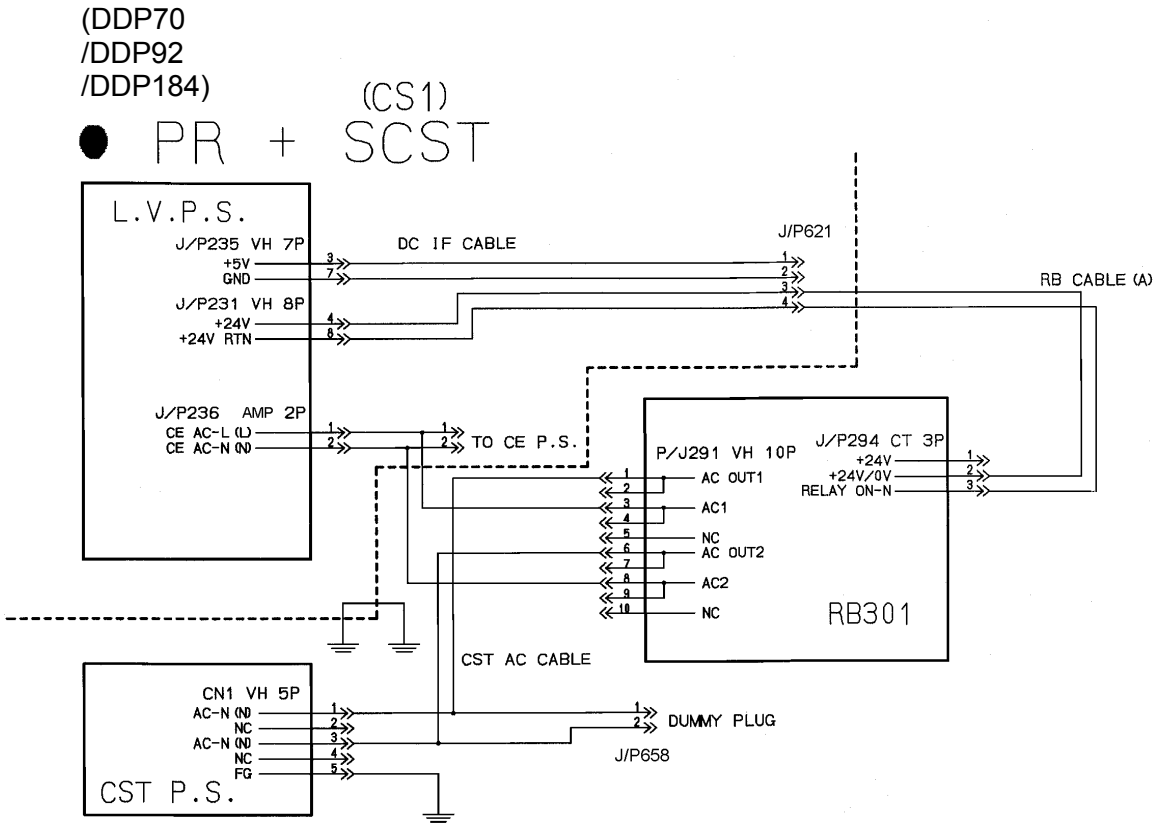


Figure 3-10 Block Wiring

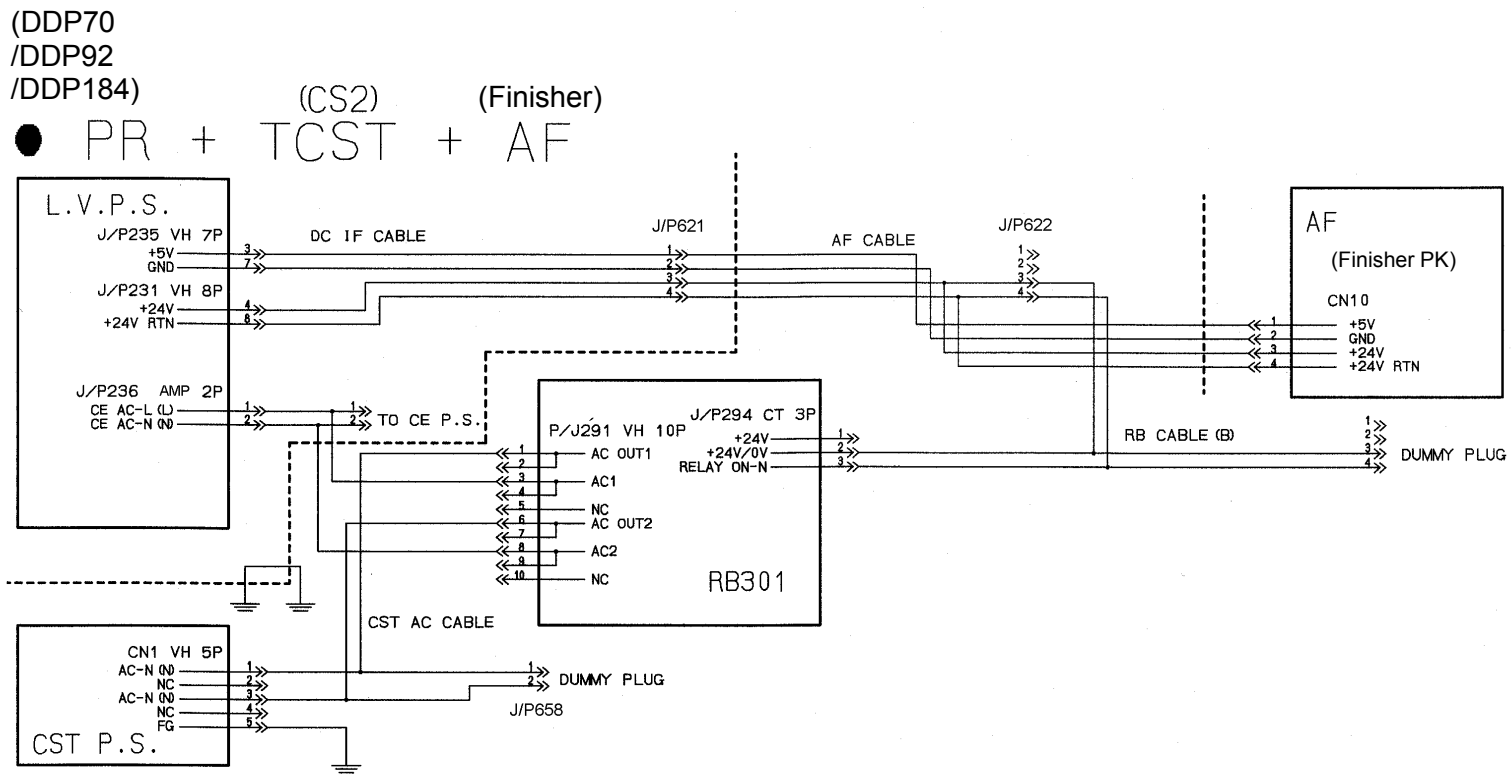


Figure 3-11 Block Wiring

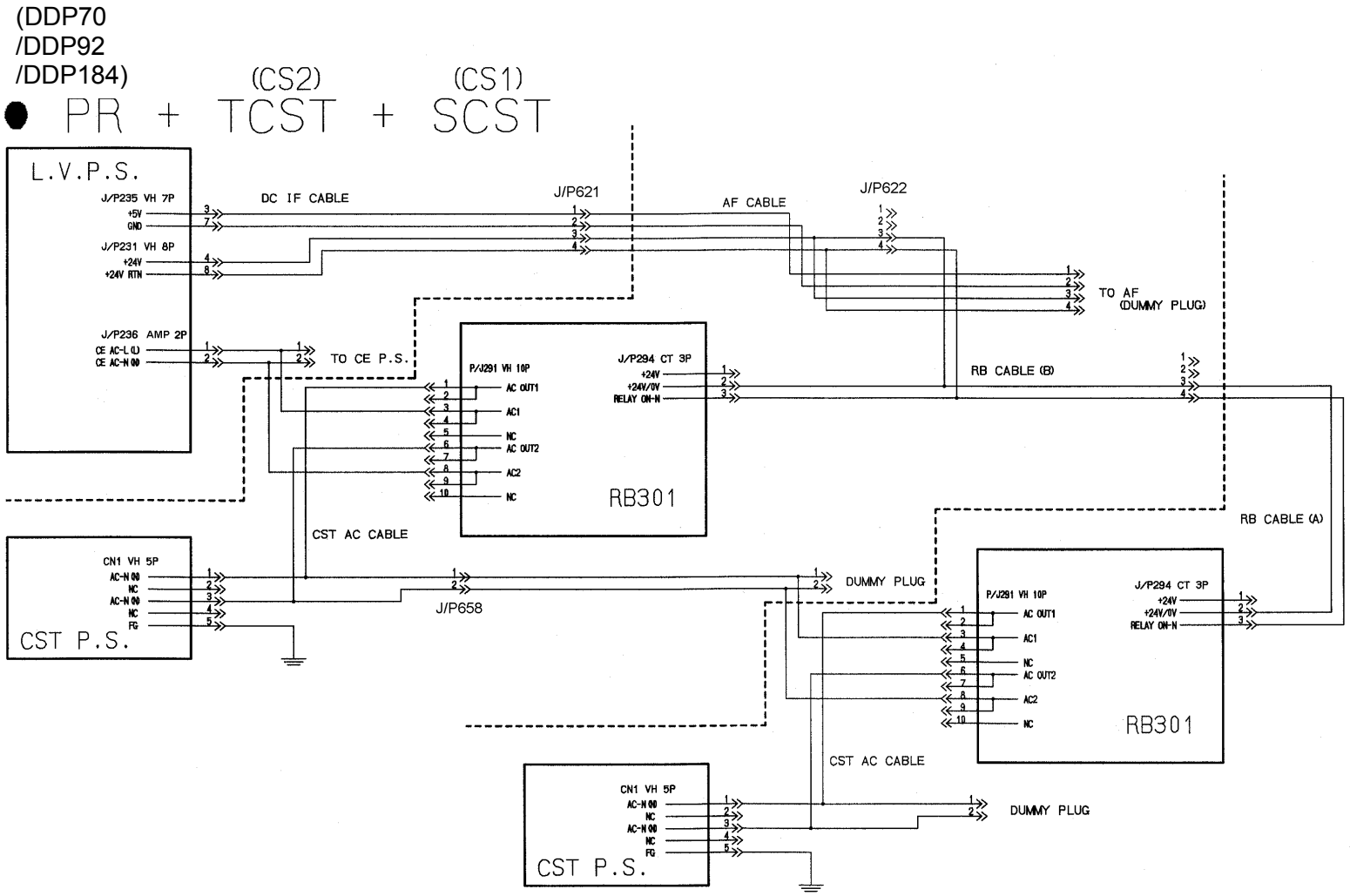


Figure 3-12 Block Wiring

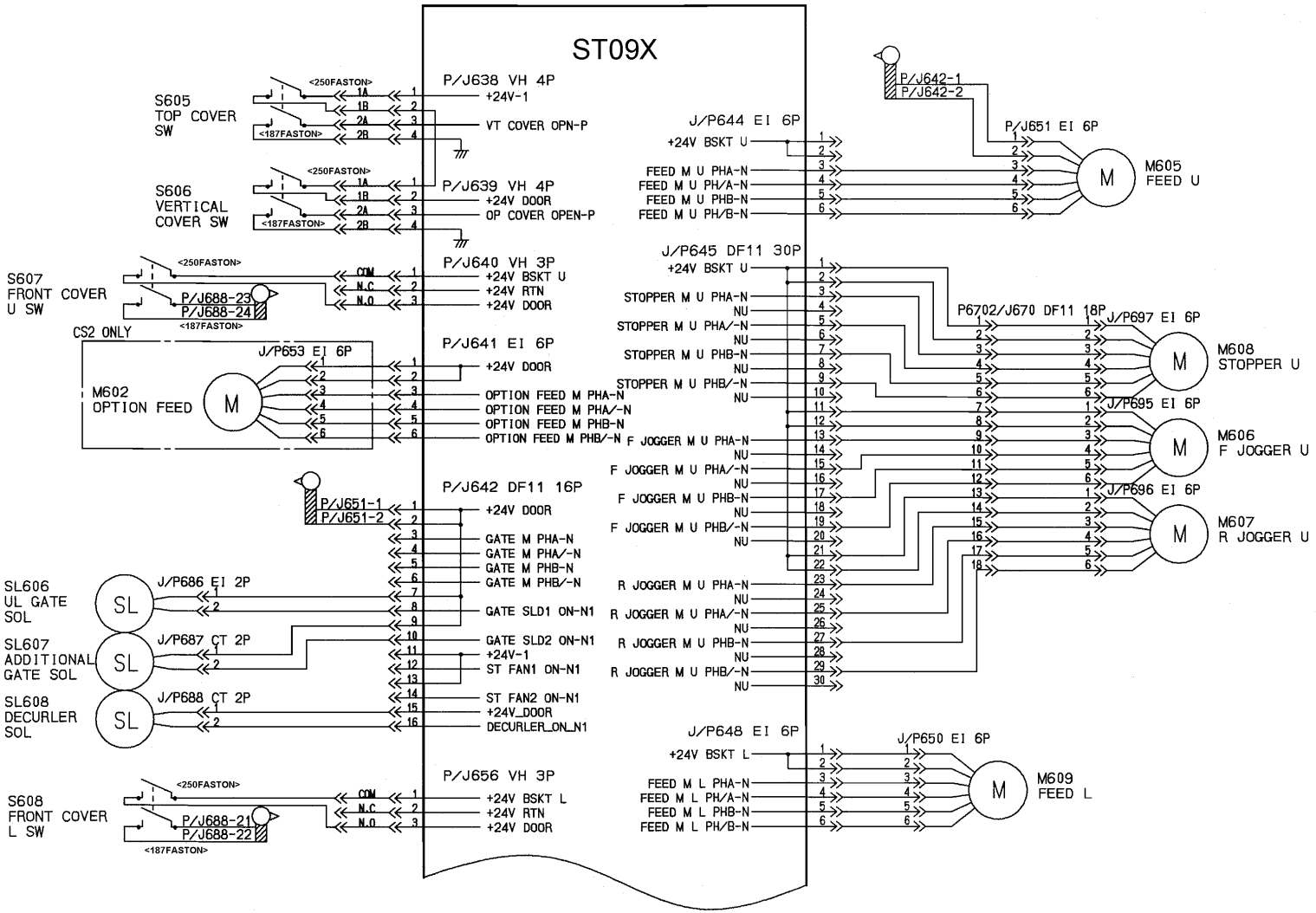


Figure 3-13 Block Wiring

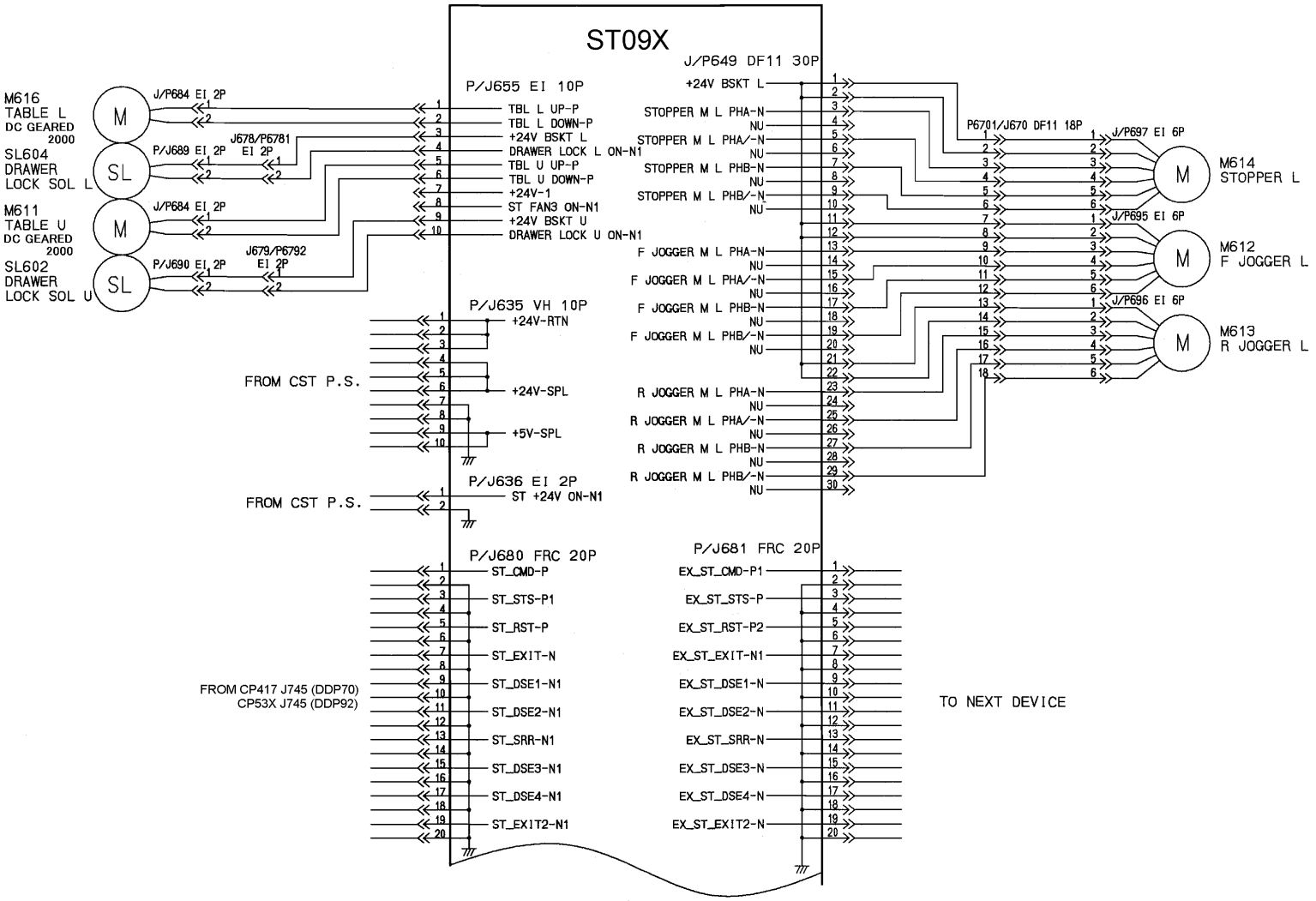


Figure 3-14 Block Wiring

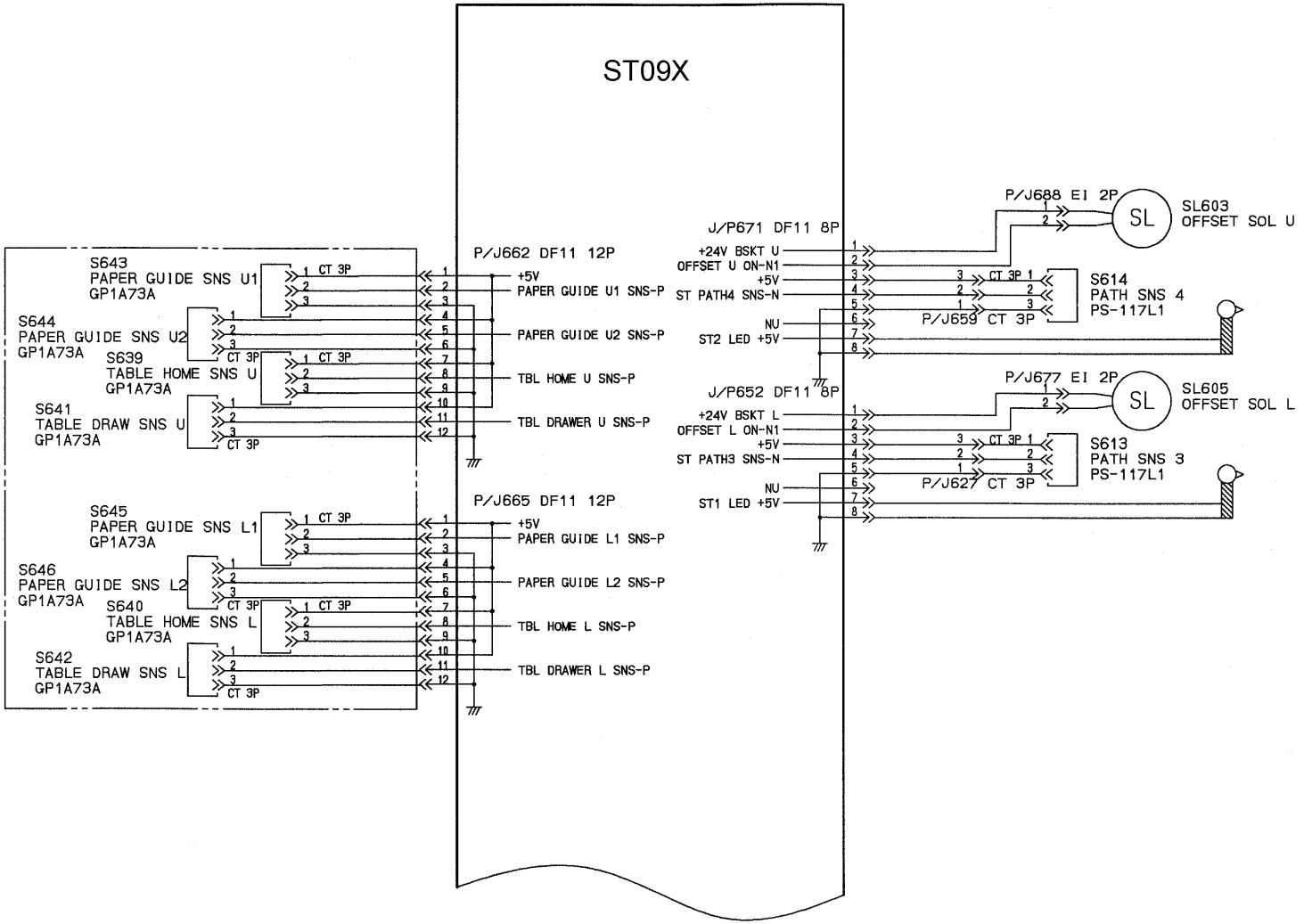


Figure 3-15 Block Wiring

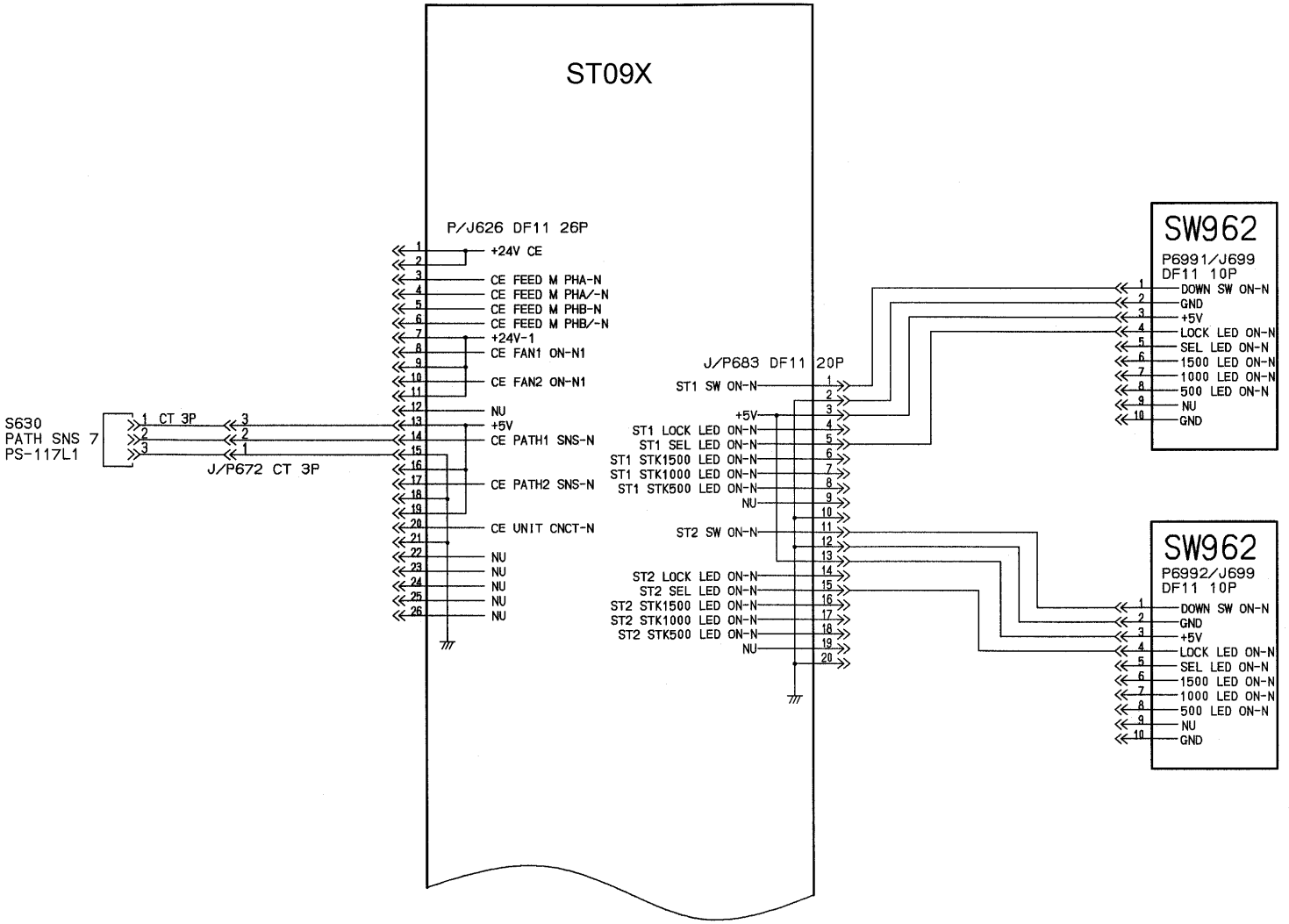


Figure 3-16 Block Wiring

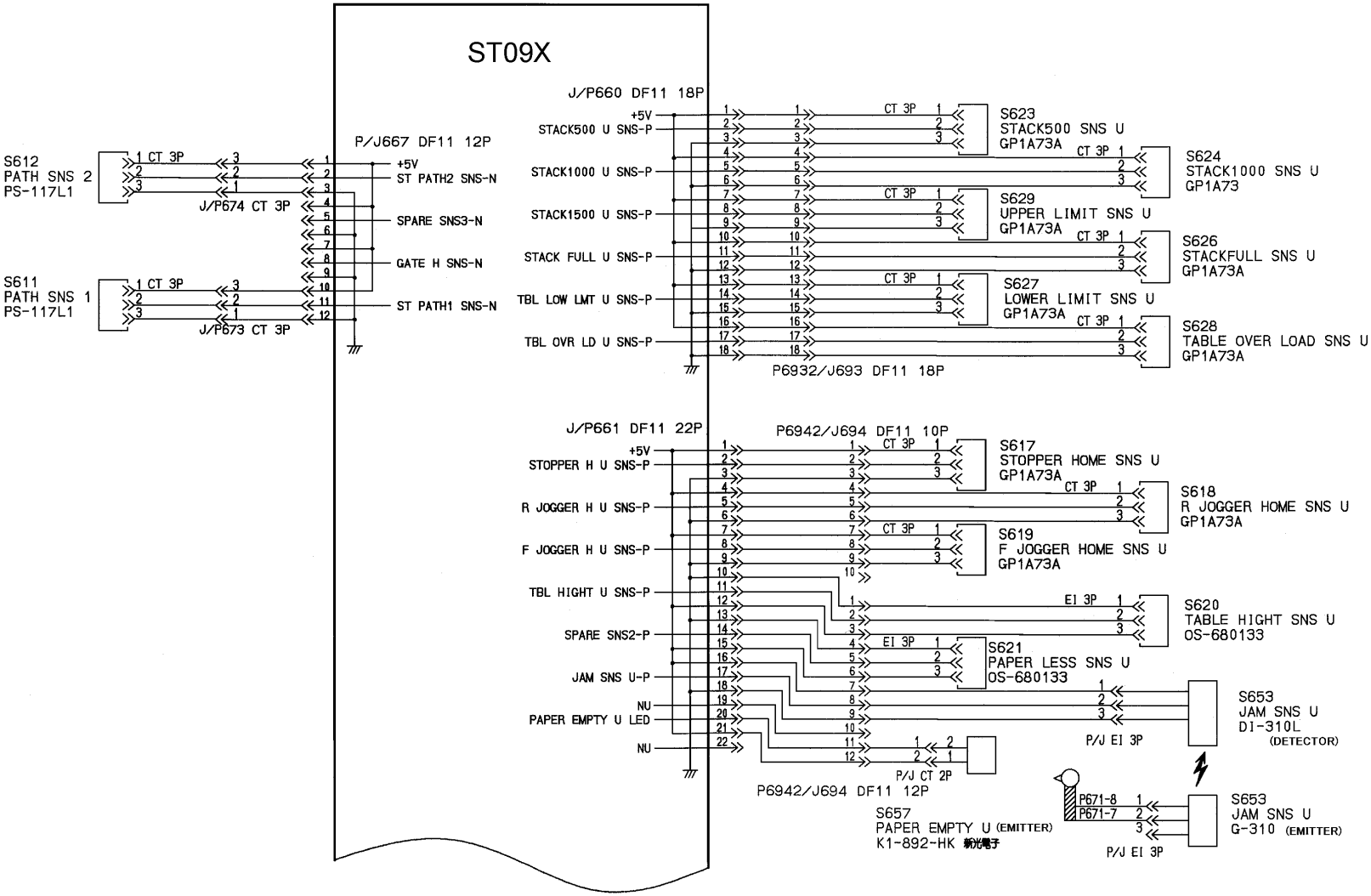


Figure 3-17 Block Wiring

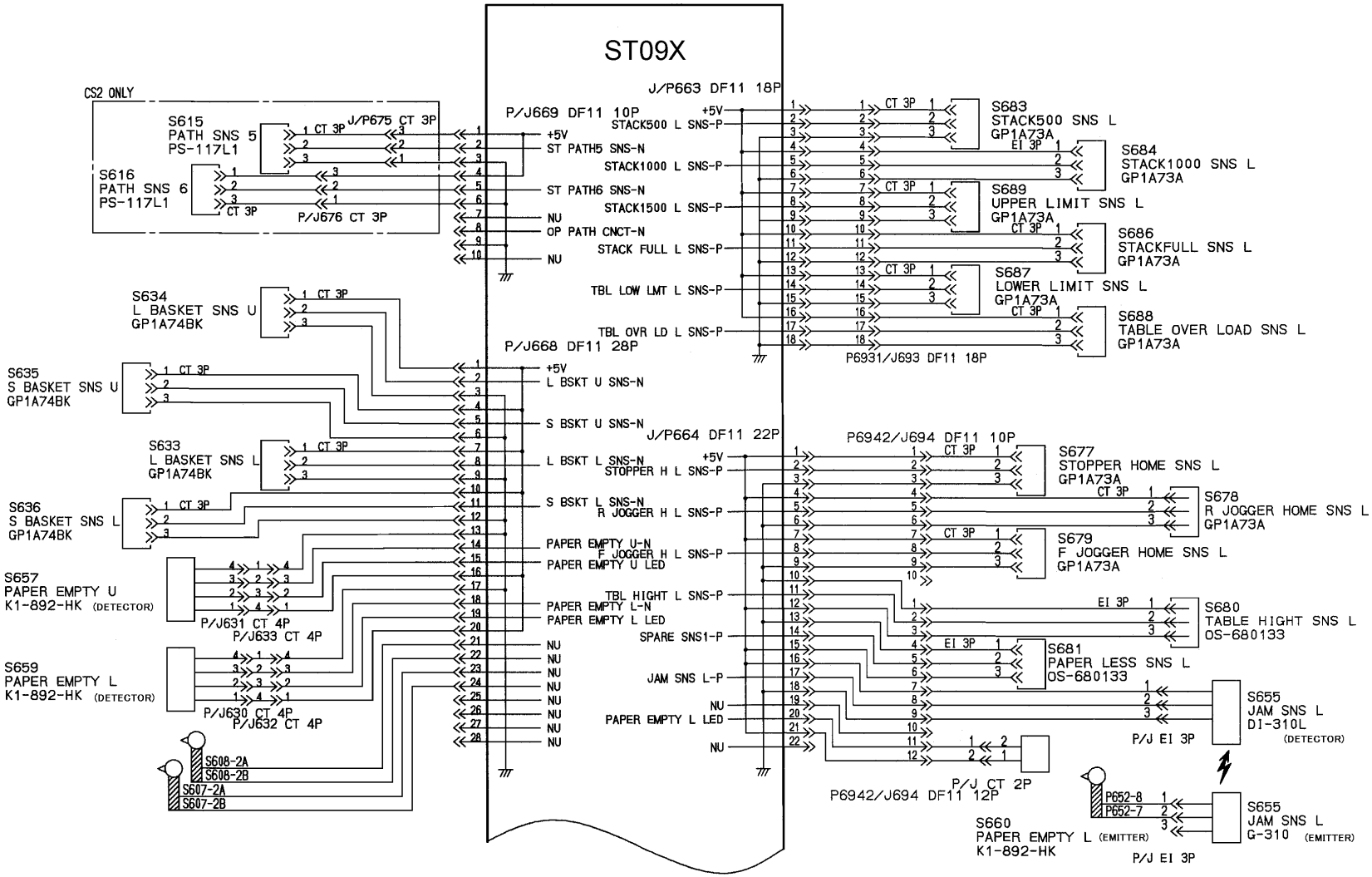


Figure 3-18 Block Wiring

Chapter 4. Preventive Maintenance

This section contains information for maintenance of the container stacker for continuous failure-free, high-quality performance. This section also includes the procedures for cleaning the exterior and interior of the container stacker. While performing any maintenance procedure, visually inspect the container stacker for loose, broken or missing cables, connectors or other parts. In addition, inspect that there is no scratch on the conveyance belt and no toner is spilt on or near the print path.

PREVENTIVE MAINTENANCE SCHEDULE

Most of the preventive maintenance procedures are not specified the maintenance cycles. The determining factor for when to perform maintenance depends on the extent of use. If the container stacker is used more heavily, it requires more frequent preventive maintenance.

4.1. Operator's Works

Table 4-1 shows the operator's works and the frequencies. See "Container Stacker User's Guide" for details of each item.

Table 4-1. Operator's work, checking and cleaning

	Preventive maintenance item	Frequency
Work	Turning on/off the power	Before and after each use
	Removal of paper (basket/sample tray)	
	Replacement of the basket	
Checking and cleaning	Removal of jammed paper	
	Cleaning of the basket, sample tray and covers	Daily

4.2. Periodic Checking by Service Engineer

This section describes maintenance items and the frequencies performed by service engineers. The checking intervals are based on the standard printer operating conditions described below. Check the operating conditions and make sure that maintenance and checks are performed at intervals appropriate for the actual condition.

Standard usage - Printing volume : 200 K images/month (DDP70)
: 300 K images/month (DDP92)
Power-on time : 200 hrs/month
Operating time : 60 hrs/month

Note:

Definition of number of printed pages: Simplex printing. A sheet of A4-sized paper is counted as one page, and a sheet of A3-sized paper is counted as two pages.

Abbreviation: Ki = 1,000 images

M2 = Once every two months

4.2.1. Items and intervals of periodic checking

Table 4-2. Items and intervals of periodic checking

Item No.	Items	Frequency		Work time required (min.)	Tools required	Reference (section)
		Number of printed pages (Ki)	Interval			
1	Checking of Bearing guide	4,800	-	20	-	4.3.1

4.2.2. Items and intervals of periodic cleaning

Table 4-3. Items and intervals of periodic cleaning

Item No.	Items	Frequency		Work time required (min.)	Tools required	Reference (section)
		Number of printed pages (Ki)	Interval			
1	Covers and sample tray	-	Per visit	3	-	4.4.1
2	Basket	-	Per visit	2	-	4.4.2

4.2.3. Parts for Periodic Replacement and Frequencies

Table 4-4. Parts for periodic replacement and frequencies

Item No.	Parts for periodic replacement	DWG. No.	Q'ty	Frequency		Work time required (min.)	Reference (section)
				Number of printed pages (Ki)	Interval		
1	Idler roller (S)	G8511204 (N424467)	8	9,600	-	30	6.4.10
2	Paddle	G8511205 (N424501)	2	9,600	-		6.4.6
3	Paddle	G8511206 (N4245012)	8	9,600	-		

Note: Determine the replacement interval of a part referring to the indication of the counter. Note that the replacement intervals are not displayed on the operator panel of the printer. Make a memo of such counter figures when replacing the parts in order to know when they should be replaced next time.

Note: The replacement interval must be based on the printing conditions shown below.

When using Xerox 4024 20-lbs. letter-sized paper or 17-lbs. A4-sized paper at print ratio 4.0%: temperature 19 to 25^{0}C, humidity 40 to 60%

4.3. Periodic checking

4.3.1. Checking of bearing guide

CAUTION: Move the table down to the lowermost position and turn off the AC POWER switch before maintenance.

Applicable jigs and tools: Phillips screwdriver

[Cleaning procedure]

1. Remove the Fork lift ass'y(see section 6.2.1).
2. Apply the grease on Bearing guide touch with ballbearing.

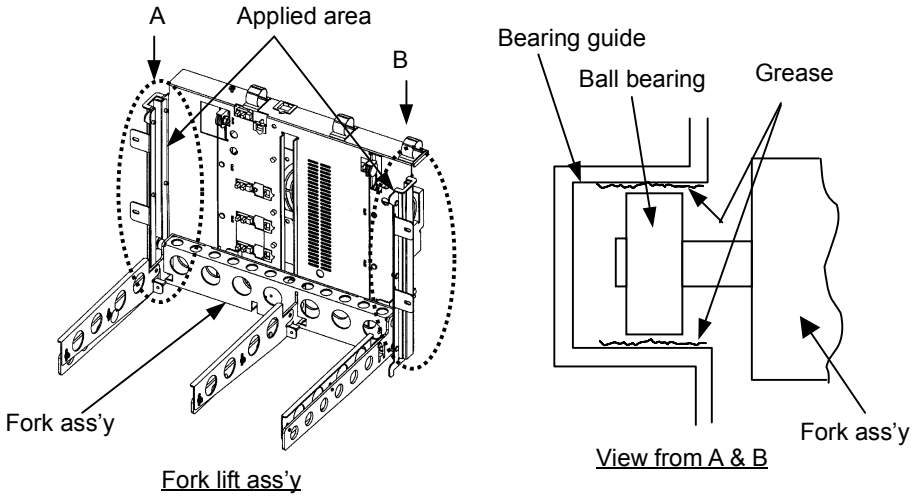


Fig. 4-1. Cleaning of bearing guide

[Assembling procedure]

1. Reverse the above procedure for reassembly.

4.4. Cleaning

4.4.1. Cleaning of covers and sample tray

CAUTION: Be sure to turn OFF the MAIN AC POWER switch prior to performing the maintenance.

Applicable jigs and tools: Clean, dry cloths

[Cleaning procedure]

1. Remove paper from the sample tray.
2. Wipe the covers and the sample tray with a clean cloth dampened with water.
3. Wipe them dry with a clean, dry cloth.

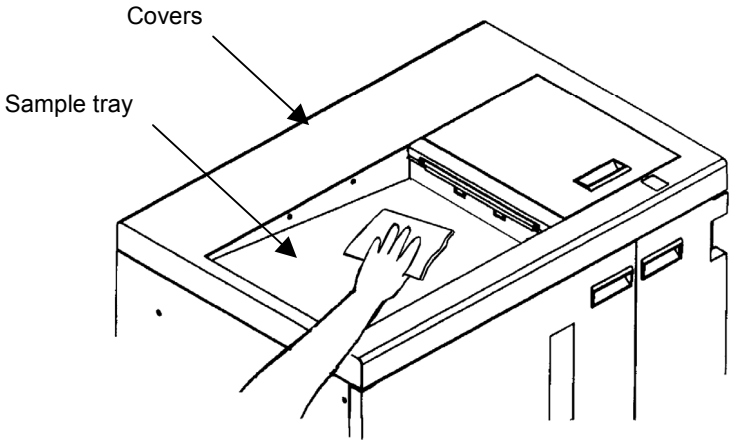


Fig. 4-2. Cleaning of covers and sample tray

4.4.2. Cleaning of basket

CAUTION: Be sure to turn OFF the MAIN AC POWER switch prior to performing the maintenance.

Applicable jigs and tools: Vacuum cleaner

[Cleaning procedure]

1. Open the front cover L ass'y (see section 3.4.1).
2. Slide out the drawer ass'y (see section 6.8.15).
3. Remove paper dust settled at the corners inside the basket with a vacuum cleaner.

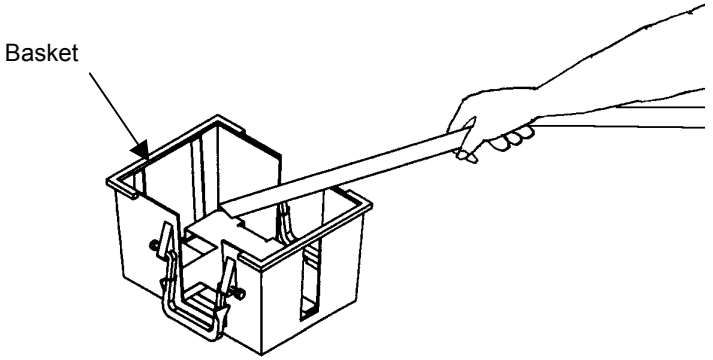


Fig. 4-3. Cleaning of basket

[Assembling procedure]

1. Reverse the above procedure for reassembly.

Chapter 5. Troubleshooting

5.1. Stacking Error

5.1.1. Stacking error

Primary factor; Paper is stacked improperly.			
Phenomenon	Causes and check points	Corrective actions	Reference section
1. Paper is stacked improperly.	1. Paper is curled. Check for the amount of paper curl and the direction.	Turn paper in the hopper upside down for adjustment. Replace the paper.	
	2. Static electricity is built up in paper.	Flip through the sheets of paper in the basket to check it. Replace the discharger.	6.4.5 6.6.9

5.1.2. Stacking error in the sample tray only

Primary factor; Paper is stacked improperly in the sample tray only.			
Phenomenon	Causes and check points	Corrective actions	Reference section
1. Paper is stacked improperly in the sample tray only.	1. Static electricity is built up in paper.	Replace the discharger.	6.5.2
	2. The stacking capacity is exceeded.	Remove the paper.	
	3. Different sized papers are stacked.	Remove the paper.	

5.1.3. Stacking error in a certain stacker only

Primary factor; Paper is stacked improperly in the container stacker 6.			
Phenomenon	Causes and check points	Corrective actions	Reference section
1. Paper is stacked improperly in a certain stacker only.	1. Static electricity is built up in paper.	Replace the discharger.	6.4.5
	2. Paper is skewed.	Replace the idler roller ass'y. Replace the idler roller (S). Reset the pressure roller ass'y. Reset the extension spring.	6.4.9 6.4.10 6.3.1(1) 6.3.2(1)
	3. Stopper plate operates improperly. (1) Stopper plate hits against paper and paper is folded. (2) Stopper plate does not contact paper.	Reset the stopper plate ass'y. Replace the timing belt. Adjust the tension of the timing belt. Reset the stopper home sensor. Adjust the stopper position.	6.1.9 6.1.2 7.2.5
	4. Jogger plate F ass'y and jogger plate R ass'y operate improperly. (1) Jogger plate hits against paper and paper is folded. (2) Jogger plate does not contact paper.	Reset the jogger plate F ass'y. Reset the jogger plate R ass'y. Replace the timing belt. Adjust the tension of the timing belt. Reset the F jogger home sensor. Reset the R jogger home sensor. Adjust the jogger position.	6.1.10 6.1.3 6.1.4 7.2.5
	5. Solenoid of the offset unit does not operate. (1) Paper hits against the jogger plate and paper is folded.	Replace the solenoid ass'y.	6.4.14

Primary factor; Paper is stacked improperly in the container stacker 5.			
Phenomenon	Causes and check points	Corrective actions	Reference section
1. Paper is stacked improperly in the lower container stacker 1.	1. Static electricity is built up in paper.	Replace the discharger.	6.4.5
	2. Paper is skewed.	Replace the idler roller ass'y. Replace the idler roller (S). Reset the pressure roller ass'y. Reset the extension spring. Check that the L paper guide B1 ass'y is closed. Check that the L paper guide B2 ass'y is closed.	6.4.9 6.4.10 6.3.1(2) 6.3.2(2)
	3. Stopper plate operates improperly. (1) Stopper plate hits against paper and paper is folded. (2) Stopper plate does not contact paper.	Reset the stopper plate ass'y. Replace the timing belt. Adjust the tension of the timing belt. Reset the stopper home sensor. Adjust the stopper position.	6.1.9 6.1.2 7.2.5
	4. Jogger plate F ass'y and jogger plate R ass'y operate improperly. (1) Jogger plate hits against paper and paper is folded. (2) Jogger plate does not contact paper.	Reset the jogger plate F ass'y. Reset the jogger plate R ass'y. Replace the timing belt. Adjust the tension of the timing belt. Reset the F jogger home sensor. Reset the R jogger home sensor. Adjust the jogger position.	6.1.10 6.1.3 6.1.4 7.2.5
	5. Solenoid of the offset unit does not operate. (1) Paper hits against the jogger plate and paper is folded.	Replace the solenoid ass'y.	6.4.14

Primary factor; Paper is stacked improperly in the container stacker 8.			
Phenomenon	Causes and check points	Corrective actions	Reference section
1. Paper is stacked improperly in the upper container stacker 2.	1. Static electricity is built up in paper.	Replace the discharger.	6.4.5 6.6.9
	2. Paper is skewed.	Replace the idler roller ass'y. Replace the idler roller (S). Reset the pressure roller ass'y. Reset the extension spring. Check that the U paper guide B ass'y is closed.	6.4.9 6.4.10 6.3.1(1) 6.3.2(1) 6.6.5 6.6.6 6.6.7 6.6.8
	3. Stopper plate operates improperly. (1) Stopper plate hits against paper and paper is folded. (2) Stopper plate does not contact paper.	Reset the stopper plate. Replace the timing belt. Adjust the tension of the timing belt. Reset the stopper home sensor. Adjust the stopper position.	6.1.9 6.1.2 7.2.5
	4. Jogger plate F ass'y and jogger plate R ass'y operate improperly. (1) Jogger plate hits against paper and paper is folded. (2) Jogger plate does not contact paper.	Reset the jogger plate F ass'y. Reset the jogger plate R ass'y. Replace the timing belt. Adjust the tension of the timing belt. Reset the F jogger home sensor. Reset the R jogger home sensor. Adjust the jogger position.	6.1.10 6.1.3 6.1.4 7.2.5
	5. Solenoid of the offset unit does not operate. (1) Paper hits against the jogger plate and paper is folded.	Replace the solenoid ass'y.	6.4.14

Primary factor; Paper is stacked improperly in the container stacker 7.			
Phenomenon	Causes and check points	Corrective actions	Reference section
1. Paper is stacked improperly in the lower container stacker 2.	1. Static electricity is built up in paper.	Replace the discharger.	6.4.5 6.6.9
	2. Paper is skewed.	Replace the idler roller ass'y. Replace the idler roller (S). Reset the pressure roller ass'y. Reset the extension spring. Check that the L paper guide B1 ass'y is closed. Check that the L paper guide B2 ass'y is closed. Check that the U paper guide B is closed.	6.4.9 6.4.10 6.3.1(2) 6.3.2(2) 6.6.5 6.6.6 6.6.7 6.6.8
	3. Stopper plate operates improperly. (1) Stopper plate hits against paper and paper is folded. (2) Stopper plate does not contact paper.	Reset the stopper plate. Replace the timing belt. Adjust the tension of the timing belt. Reset the stopper home sensor. Adjust the stopper position.	6.1.9 6.1.2 7.2.5
	4. Jogger plate F ass'y and jogger plate R ass'y operate improperly. (1) Jogger plate hits against paper and paper is folded. (2) Jogger plate does not contact paper.	Reset the jogger plate F ass'y. Reset the jogger plate R ass'y. Replace the timing belt. Adjust the tension of the timing belt. Reset the F jogger home sensor. Reset the R jogger home sensor. Adjust the jogger position.	6.1.10 6.1.3 6.1.4 7.2.5
	5. Solenoid of the offset unit does not operate. (1) Paper hits against the jogger plate and paper is folded.	Replace the solenoid ass'y.	6.4.14

5.2. Panel Error

Primary factor; Panel does not function.			
Phenomenon	Causes and check points	Corrective actions	Reference section
1. Container stacker indicator lamp does not light up during discharging paper.	1. PCB is faulty.	Replace PCB: ST09X P/K, SW962 P/K	6.8.2 6.8.3
	2. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly: ST09X-SW962	
2. Table does not move down even though the switch of the container stacker that is not in operation is pushed.	1. PCB is faulty.	Replace PCB: ST09X P/K, SW962 P/K	6.8.2 6.8.3
	2. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly: ST09X-SW962	
See figure 5-1 in section 5.2.			

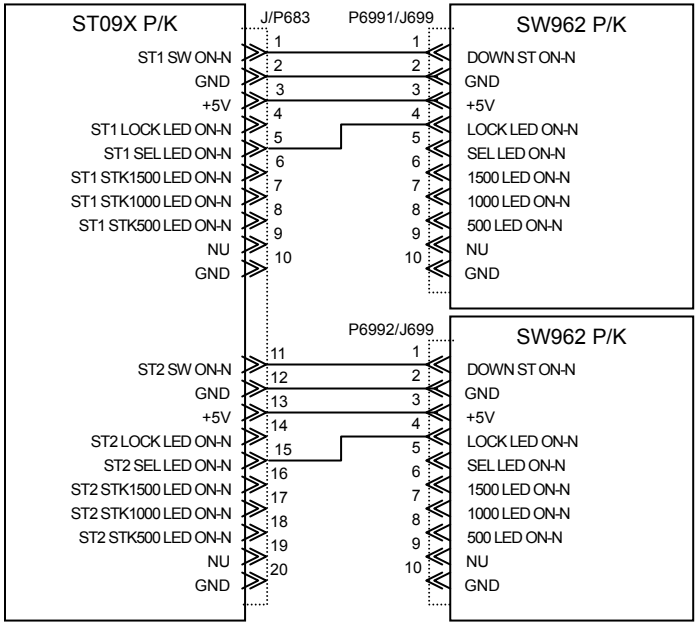


Fig. 5-1 Panel Error

5.3. Error Codes

Error code	Error	Description	Reference section
E00B	Stacker 5 Full	Stacker 5 is full of paper.	5.3.1
E00C	Stacker 6 Full	Stacker 6 is full of paper.	5.3.1
E00E	Stacker 7 Full	Stacker 7 is full of paper.	5.3.1
E00F	Stacker 8 Full	Stacker 8 is full of paper.	5.3.1
E029	Stacker 5 Basket Nonset	No basket is set in the stacker 5.	5.3.2
E02A	Stacker 6 Basket Nonset	No basket is set in the stacker 6.	5.3.2
E02B	Stacker 7 Basket Nonset	No basket is set in the stacker 7.	5.3.2
E02C	Stacker 8 Basket Nonset	No basket is set in the stacker 8.	5.3.2
E02D	CNT.STK Top Cover Open	Top cover of the container stacker is open.	5.3.3
E02E	Stacker 5 Front Cover Open	Front cover of the stacker 5 is open.	5.3.4
E03A	Stacker 6 Front Cover Open	Front cover of the stacker 6 is open.	5.3.4
E038	CNT.SKT V.Path Cover Open	Vertical path cover of the container stacker is open.	5.3.5
E03B	EXP CNT.STK Top Cover Open	Top cover of the add-on container stacker is open.	5.3.3
E03C	Stacker 7 Front Cover Open	Front cover of the stacker 7 is open.	5.3.4
E03D	Stacker 8 Front Cover Open	Front cover of the stacker 8 is open.	5.3.4
E039	EXP CNT.SKT V.Path Cover Open	Vertical path cover of the add-on container stacker is open.	5.3.5

Error code	Error	Description	Reference section
E0B0	Paper On Paper Path 30	Paper is on the paper path sensor 1 of the container stacker.	5.3.6
E0B1	Paper On Paper Path 31	Paper is on the paper path sensor 2 of the container stacker.	5.3.6
E0B2	Paper On Paper Path 32	Paper is on the paper path sensor 3 of the container stacker.	5.3.6
E0B3	Paper On Paper Path 33	Paper is on the paper path sensor 4 of the container stacker.	5.3.6
E0B4	Paper On Paper Path 34	Paper is on the paper path sensor 5 of the container stacker.	5.3.6
E0B5	Paper On Paper Path 35	Paper is on the paper path sensor 6 of the container stacker.	5.3.6
E0B6	Paper On Paper Path 36	Paper is on the paper path sensor 7 of the container stacker.	5.3.6
E0B7	Paper On Paper Path 37	Paper is on the lower jam sensor of the container stacker.	5.3.6
E0B8	Paper On Paper Path 38	Paper is on the upper jam sensor of the container stacker.	5.3.6
E0B9	Paper On Paper Path 39	Paper is on the paper path sensor 1 of the add-on container stacker.	5.3.6
E0BA	Paper On Paper Path 40	Paper is on the paper path sensor 2 of the add-on container stacker.	5.3.6
E0BB	Paper On Paper Path 41	Paper is on the paper path sensor 3 of the add-on container stacker.	5.3.6
E0BC	Paper On Paper Path 42	Paper is on the paper path sensor 4 of the add-on container stacker.	5.3.6
E0BD	Paper On Paper Path 43	Paper is on the paper path sensor 5 of the add-on container stacker.	5.3.6
E0BE	Paper On Paper Path 44	Paper is on the paper path sensor 6 of the add-on container stacker.	5.3.6
E0BF	Paper On Paper Path 45	Paper is on the paper path sensor 7 of the add-on container stacker.	5.3.6
E0C0	Paper On Paper Path 46	Paper is on the lower jam sensor of the add-on container stacker.	5.3.6
E0C1	Paper On Paper Path 47	Paper is on the upper jam sensor of the add-on container stacker.	5.3.6

Error code	Error	Description	Reference section
E092	Stacker 5 Size Unmatch	Basket size of the stacker 5 does not match the pick size.	5.3.7
E093	Stacker 6 Size Unmatch	Basket size of the stacker 6 does not match the pick size.	5.3.7
E094	Stacker 7 Size Unmatch	Basket size of the stacker 7 does not match the pick size.	5.3.7
E095	Stacker 8 Size Unmatch	Basket size of the stacker 8 does not match the pick size.	5.3.7
E096	Stacker Size Unmatch	Stack size of the stacker does not match the pick size.	5.3.8
E198	CNT.STK Jam 1	Paper did not arrive at the jam sensor of the lower container stacker.	5.3.9
E199	CNT.STK Jam 2	Paper did not depart from the jam sensor of the lower container stacker.	5.3.9
E19A	CNT.STK Jam 3	Paper did not arrive at the jam sensor of the upper container stacker.	5.3.9
E19B	CNT.STK Jam 4	Paper did not depart from the jam sensor of the upper container stacker.	5.3.9
E19C	CNT.STK Jam 5	Paper did not arrive at the jam sensor of the lower add-on container stacker.	5.3.9
E19D	CNT.STK Jam 6	Paper did not depart from the jam sensor of the lower add-on container stacker.	5.3.9
E19E	CNT.STK Jam 7	Paper did not arrive at the jam sensor of the upper add-on container stacker.	5.3.9
E19F	CNT.STK Jam 8	Paper did not depart from the jam sensor of the upper add-on container stacker.	5.3.9
E1A0	CNT.STK Feed Jam 1	Paper did not arrive at the paper path sensor 1 of the container stacker.	5.3.10
E1A1	CNT.STK Feed Jam 2	Paper did not depart from the paper path sensor 1 of the container stacker.	5.3.10
E1A2	CNT.STK Feed Jam 3	Paper did not arrive at the paper path sensor 2 of the container stacker.	5.3.10
E1A3	CNT.STK Feed Jam 4	Paper did not depart from the paper path sensor 2 of the container stacker.	5.3.10
E1A4	CNT.STK Feed Jam 5	Paper did not arrive at the paper path sensor 3 of the container stacker.	5.3.10
E1A5	CNT.STK Feed Jam 6	Paper did not depart from the paper path sensor 3 of the container stacker.	5.3.10
E1A6	CNT.STK Feed Jam 7	Paper did not arrive at the paper path sensor 4 of the container stacker.	5.3.10
E1A7	CNT.STK Feed Jam 8	Paper did not depart from the paper path sensor 4 of the container stacker.	5.3.10
E1A8	CNT.STK Feed Jam 9	Paper did not arrive at the paper path sensor 7 of the container stacker.	5.3.10
E1A9	CNT.STK Feed Jam 10	Paper did not depart from the paper path sensor 7 of the container stacker.	5.3.10
E1AA	CNT.STK Feed Jam 11	Paper did not arrive at the paper path sensor 5 of the container stacker.	5.3.10
E1AB	CNT.STK Feed Jam 12	Paper did not depart from the paper path sensor 5 of the container stacker.	5.3.10
E1AC	CNT.STK Feed Jam 13	Paper did not arrive at the paper path sensor 6 of the container stacker.	5.3.10
E1AD	CNT.STK Feed Jam 14	Paper did not depart from the paper path sensor 6 of the container stacker.	5.3.10

E1AE	CNT.STK Feed Jam 15	Paper did not arrive at the paper path sensor 1 of the add-on container stacker.	5.3.10
E1AF	CNT.STK Feed Jam 16	Paper did not depart from the paper path sensor 1 of the add-on container stacker.	5.3.10

Error code	Error	Description	Reference section
E1B0	CNT.STK Feed Jam 17	Paper did not arrive at the paper path sensor 2 of the add-on container stacker.	5.3.10
E1B1	CNT.STK Feed Jam 18	Paper did not depart from the paper path sensor 2 of the add-on container stacker.	5.3.10
E1B2	CNT.STK Feed Jam 19	Paper did not arrive at the paper path sensor 3 of the add-on container stacker.	5.3.10
E1B3	CNT.STK Feed Jam 20	Paper did not depart from the paper path sensor 3 of the add-on container stacker.	5.3.10
E1B4	CNT.STK Feed Jam 21	Paper did not arrive at the paper path sensor 4 of the add-on container stacker.	5.3.10
E1B5	CNT.STK Feed Jam 22	Paper did not depart from the paper path sensor 4 of the add-on container stacker.	5.3.10
E1B6	CNT.STK Feed Jam 23	Paper did not arrive at the paper path sensor 7 of the add-on container stacker.	5.3.10
E1B7	CNT.STK Feed Jam 24	Paper did not depart from the paper path sensor 7 of the add-on container stacker.	5.3.10
E1B8	CNT.STK Feed Jam 25	Paper did not arrive at the paper path sensor 5 of the add-on container stacker.	5.3.10
E1B9	CNT.STK Feed Jam 26	Paper did not depart from the paper path sensor 5 of the add-on container stacker.	5.3.10
E1BA	CNT.STK Feed Jam 27	Paper did not arrive at the paper path sensor 6 of the add-on container stacker.	5.3.10
E1BB	CNT.STK Feed Jam 28	Paper did not depart from the paper path sensor 6 of the add-on container stacker.	5.3.10

Error code	Error	Description	Reference section
E293	DSE4 Read Error	DSE4 signal error is detected.	5.3.11
E294	CONT.ST Incorrect Command	Incorrect command is detected in the container stacker.	5.3.12
E295	EXP CONT.ST Incorrect Command	Incorrect command is detected in the add-on container stacker.	5.3.12
E296	CONT.ST Exit Signal Error	Exit signal error is detected in the container stacker.	5.3.13
E297	EXP CONT.ST Exit Signal Error	Exit signal error is detected in the add-on container stacker.	5.3.13
E298	CONT.ST ROM Error	ROM error is detected in the container stacker.	5.3.14
E299	EXP CONT.ST ROM Error	ROM error is detected in the add-on container stacker.	5.3.14
E29A	CONT.ST CPU Error	CPU error is detected in the container stacker.	5.3.15.1
E29B	EXP CONT.ST CPU Error	CPU error is detected in the add-on container stacker.	5.3.15.1
E29C	CONT.ST ACT Timeout	Container stacker does not start operation.	5.3.16
E29D	CONT.ST DORMANT Timeout	Container stacker cannot be in standby mode.	5.3.16
E29E	CONT.ST BUSY Timeout	Container stacker is busy continuously.	5.3.16
E29F	CONT.ST PRINT Timeout	Container stacker is in print mode continuously.	5.3.16
E2A0	CONT.ST RAM Error	RAM error is detected in the container stacker.	5.3.17
E2A1	EXP CONT.ST RAM Error	RAM error is detected in the add-on container stacker.	5.3.17
E2B4	Stacker 5 F Jogger Pos. Error	F jogger position error is detected in the stacker 5.	5.3.18
E2B5	Stacker 5 R Jogger Pos. Error	R jogger position error is detected in the stacker 5.	5.3.18

E2B6	Stacker 5 Stoppper Pos. Error	Stopper position error is detected in the stacker 5.	5.3.18

Error code	Error	Description	Reference section
E2B7	Stacker 6 F Jogger Pos. Error	F jogger position error is detected in the stacker 6.	5.3.18
E2B8	Stacker 6 R Jogger Pos. Error	R jogger position error is detected in the stacker 6.	5.3.18
E2B9	Stacker 6 Stopper Pos. Error	Stopper position error is detected in the stacker 6.	5.3.18
E2BA	Stacker 7 F Jogger Pos. Error	F jogger position error is detected in the stacker 7.	5.3.18
E2BB	Stacker 7 R Jogger Pos. Error	R jogger position error is detected in the stacker 7.	5.3.18
E2BC	Stacker 7 Stopper Pos. Error	Stopper position error is detected in the stacker 7.	5.3.18
E2BD	Stacker 8 F Jogger Pos. Error	F jogger position error is detected in the stacker 8.	5.3.18
E2BE	Stacker 8 R Jogger Pos. Error	R jogger position error is detected in the stacker 8.	5.3.18
E2BF	Stacker 8 Stopper Pos. Error	Stopper position error is detected in the stacker 8.	5.3.18
E278	Stacker 5 TBL Up Timeout	Time required to move up the table of the stacker 5 exceeds the specified time.	5.3.19
E279	Stacker 5 TBL Down Timeout	Time required to move down the table of the stacker 5 exceeds the specified time.	5.3.20
E27A	Stacker 6 TBL Up Timeout	Time required to move up the table of the stacker 6 exceeds the specified time.	5.3.19
E27B	Stacker 6 TBL Dowm Timeout	Time required to move down the table of the stacker 6 exceeds the specified time.	5.3.20
E27C	Stacker 7 TBL Up Timeout	Time required to move up the table of the stacker 7 exceeds the specified time.	5.3.19

E27D	Stacker 7 TBL Down Timeout	Time required to move down the table of the stacker 7 exceeds the specified time.	5.3.20

Error code	Error	Description	Reference section
E27E	Stacker 8 TBL Up Timeout	Time required to move up the table of the stacker 8 exceeds the specified time.	5.3.19
E27F	Stacker 8 TBL Down Timeout	Time required to move down the table of the stacker 8 exceeds the specified time.	5.3.20
E2E4	CONT.ST Power Error	ST P/K +24V error is detected in the container stacker.	5.3.21
E2E6	EXP CONT.ST Power Error	ST P/K +24V error is detected in the add-on container stacker.	5.3.21

5.3.1. E00B STACKER 5 FULL, E00C STACKER 6 FULL E00E STACKER 7 FULL, E00F STACKER 8 FULL

Primary factor; E00B Stacker 5 is full of paper.
E00C Stacker 6 is full of paper.
E00E Stacker 7 is full of paper.
E00F Stacker 8 is full of paper.
Detecting condition; Stack full sensor is turned on (H) during printing.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. This error code is indicated.	1. Stacker is full of paper.	Remove paper from the stacker.	
2. This error code is indicated even though the stacker is not full of paper.	1. Sensor is faulty. Sensor test; E00B: Diag. No. 07 E00C: Diag. No. 03 E00E: Diag. No. 0F E00F: Diag. No. 0B	Replace the sensor. E00B/E00E : Stack Full Sensor L (S686) E00C/E00F : Stack Full Sensor U (S626)	6.2.7
	2. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	3. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly: E00B/E00E: S686-P663 E00C/E00F: S626-P660	

See figure 5-2 of section 5.3.1.

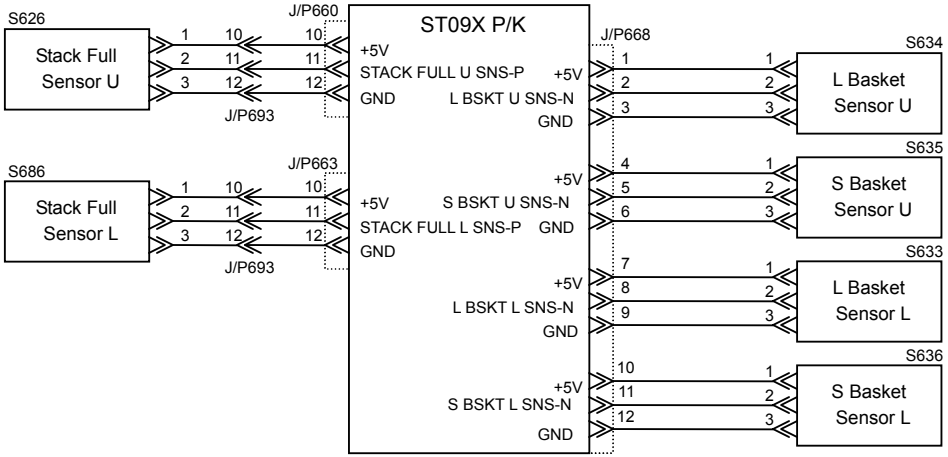


Fig. 5-2 Error codes E00B, E00C, E00E, E00F, E029, E02A, E02B and E02C

5.3.2 E029 STACKER 5 BASKET NONSET, E02A STACKER 6 BASKET NONSET E02B STACKER 7 BASKET NONSET, E02C STACKER 8 BASKET NONSET

Primary factor; E029 No basket is set in the stacker 5.
E02A No basket is set in the stacker 6.
E02B No basket is set in the stacker 7.
E02C No basket is set in the stacker 8.
Detecting condition; S basket sensor and L basket sensor are turned off (H) at the start of printing.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. This error code is indicated.	1. No basket is set in the stacker.	Set the basket in the stacker.	6.8.15
2. This error code is indicated even though the basket is set in the stacker.	1. Sensor is faulty. Sensor test; E029: Diag. No. 31/33 E02A: Diag. No. 30/32 E02B: Diag. No. 39/3B E02C: Diag. No. 38/3A	Replace the sensor. E029/E02B : S Basket Sensor L(S636), L Basket Sensor U(S633) E02A/E02C : S Basket Sensor L(S635), L Basket Sensor U(S634)	6.8.8
	2. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	3. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly: E029/E02B:S636-P668 S633-P668 E02A/E02C:S635-P668 S634-P668	
	4. Basket sensor is not mounted correctly.	Mount the sensor correctly.	6.8.8
	5. The form of the actuator of a basket sensor has changed.	Replace the drawer unit.	6.7.1
	6. Basket is not set correctly.	Set the basket correctly or replace the basket.	6.8.15

See figure 5-2 of section 5.3.1.

Polarity when it is open:
Stack Full Sensor: H, S basket sensor: H, L basket sensor: H

5.3.3. E02D CNT.STK TOP COVER OPEN
E03B EXP CNT.STK TOP COVER OPEN

Primary factor; E02D Top cover of the container stacker is open.
E03B Top cover of the add-on container stacker is open.
Detecting condition; Top cover switch is turned off (L).
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. This error code is indicated.	1. Top cover is open.	Close the top cover.	3.4.1
2. This error code is indicated even though the top cover is closed.	1. Top cover is not mounted correctly. Check that the protrusion of the cover fits in the detecting portion of the sensor.	Mount the top cover correctly.	3.4.2
	2. Protrusion of the top cover is faulty.	Replace the top cover.	3.4.2
	3. Top cover switch is not mounted correctly.	Mount the top cover switch correctly. E02D/E03B: Top cover switch (S605)	6.8.4
	4. Switch is faulty.	Replace the top cover switch. E02D/E03B: Top cover switch (S605)	6.8.4
	5. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	6. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly: E02D/E03B:S605-P638	

See figure 5-3 of section 5.3.5.

Polarity when it is open:
Top cover switch: L

5.3.4. E02E STACKER 5 FRONT COVER OPEN
E03A STACKER 6 FRONT COVER OPEN
E03C STACKER 7 FRONT COVER OPEN
E03D STACKER 8 FRONT COVER OPEN

Primary factor; E02E Front cover of the stacker 5 is open.
E03A Front cover of the stacker 6 is open.
E03C Front cover of the stacker 7 is open.
E03D Front cover of the stacker 8 is open.
Detecting condition; Front cover switch of the stacker to which paper is exited is turned off (L).
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. This error code is indicated.	1. Front cover (L) is open.	Close the front cover (L).	3.4.1
2. This error code is indicated even though the front cover is closed.	1. Pushed SW of Panel.	Open and colse the front cover (L).	
	2. Front cover (L) is not mounted correctly.	Mount the front cover (L) correctly.	3.4.2
	3. Front cover (L) is faulty.	Replace the front cover (L).	3.4.2
	4. Front cover switch is not mounted correctly.	Mount the front cover switch correctly. E02E/E03C: Front cover switch L(S608) E03A/E03D: Front cover switch U(S607)	6.8.9
	5. Switch is faulty.	Replace the front cover switch.	6.8.9
	6. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	7. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly: E02E/E03C: S608-P640 E03A/E03D: S607-P640	

See figure 5-3 of section 5.3.5.

Polarity when it is open:
Front cover switch: L

5.3.5. E038 CNT.STK V.PATH COVER OPEN
E039 EXP CNT.STK V.PATH COVER OPEN

Primary factor; E038 Front cover (R) of the container stacker is open.
E039 Front cover (R) of the add-on container stacker is open.
Detecting condition; V. path cover switch is turned off (L).
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. This error code is indicated.	1. Front cover (R) is open.	Close the front cover (R).	3.4.1
2. This error code is indicated even though the V. path cover is closed.	1. Front cover (R) is not mounted correctly. Check that the protrusion of the cover fits in the detecting portion of the sensor.	Mount the front cover (R) correctly.	3.4.2
	2. Protrusion of the front cover (R) is faulty.	Replace the front cover (R).	3.4.2
	3. V. path cover switch is not mounted correctly.	Mount the V. path cover switch correctly. E038/E039: V. path cover switch (S606)	6.8.7
	4. Switch is faulty.	Replace the V. path cover switch. E038/E039: V. path cover switch (S606)	6.8.7
	5. PCB is faulty.	Replace the PCB. ST09X P/K	6.8.2
	6. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly: E038/E039: S606-P639	
See figure 5-3 of section 5.3.5.			

Polarity when it is open:
V. path cover switch: H

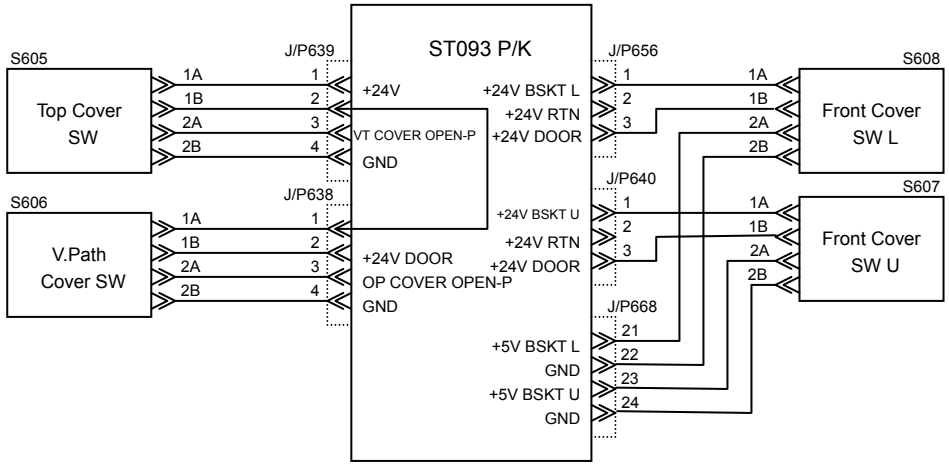


Fig. 5-3 Error codes E02D, E03B, E02E, E03A, E03C, E03D, E038 and E039

5.3.6. E0B0 PAPER ON PAPER PATH 30, E0B1 PAPER ON PAPER PATH 31
E0B2 PAPER ON PAPER PATH 32, E0B3 PAPER ON PAPER PATH 33
E0B4 PAPER ON PAPER PATH 34, E0B5 PAPER ON PAPER PATH 35
E0B6 PAPER ON PAPER PATH 36, E0B7 PAPER ON PAPER PATH 37
E0B8 PAPER ON PAPER PATH 38, E0B9 PAPER ON PAPER PATH 39
E0BA PAPER ON PAPER PATH 40, E0BB PAPER ON PAPER PATH 41
E0BC PAPER ON PAPER PATH 42, E0BD PAPER ON PAPER PATH 43
E0BE PAPER ON PAPER PATH 44, E0BF PAPER ON PAPER PATH 45
E0C0 PAPER ON PAPER PATH 46, E0C1 PAPER ON PAPER PATH 47

Primary factor; Paper is on the paper path of the container stacker.
Detecting condition; One of the sensors shown in the table below is turned on (L) when resetting or being in standby mode.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. This error code is indicated.	1. Paper is on the paper path.	Remove paper.	
2. This error code is indicated even though paper is not on the paper path.	1. Foreign matter is on the paper path.	Remove foreign matter.	
	2. Sensor is faulty. Sensor test; Diag. No. (See table below.)	Replace the sensor. (See table below.)	See table below.
	3. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	4. Sensor is not mounted properly.	Mount the sensor properly.	See table below.

See figure 5-4 of section 5.3.6.

Item	Error code	Diag. No.	Sensor		Reference section
			No.	Name	
(1)	E0B0	40	S611	Paper path sensor 1	6.3.3(2)
(2)	E0B1	41	S612	Paper path sensor 2	6.3.3(1)
(3)	E0B2	42	S613	Paper path sensor 3	6.4.7
(4)	E0B3	43	S614	Paper path sensor 4	6.4.7
(5)	E0B4	44	S615	Paper path sensor 5	6.6.2
(6)	E0B5	45	S616	Paper path sensor 6	6.6.3
(7)	E0B6	46	S617	Paper path sensor 7	6.3.3(1)
(8)	E0B7	27	S656	Jam sensor L	6.1.7 6.8.5
(9)	E0B8	17	S655	Jam sensor U	
(10)	E0B9	48	S611	Paper path sensor 1	6.3.3(2)
(11)	E0BA	49	S612	Paper path sensor 2	6.3.3(1)
(12)	E0BB	4A	S613	Paper path sensor 3	6.4.7
(13)	E0BC	4B	S614	Paper path sensor 4	6.4.7
(14)	E0BD	4C	S615	Paper path sensor 5	
(15)	E0BE	4D	S616	Paper path sensor 6	
(16)	E0BF	4E	S617	Paper path sensor 7	6.3.3(1)
(17)	E0C0	2F	S656	Jam sensor L	6.1.7 6.8.5
(18)	E0C1	1F	S655	Jam sensor U	

Items (1) to (9): Container stacker Items (10) to (18): Add-on container stacker

Polarity when it is open:
Paper path sensor: H, Jam sensor:H

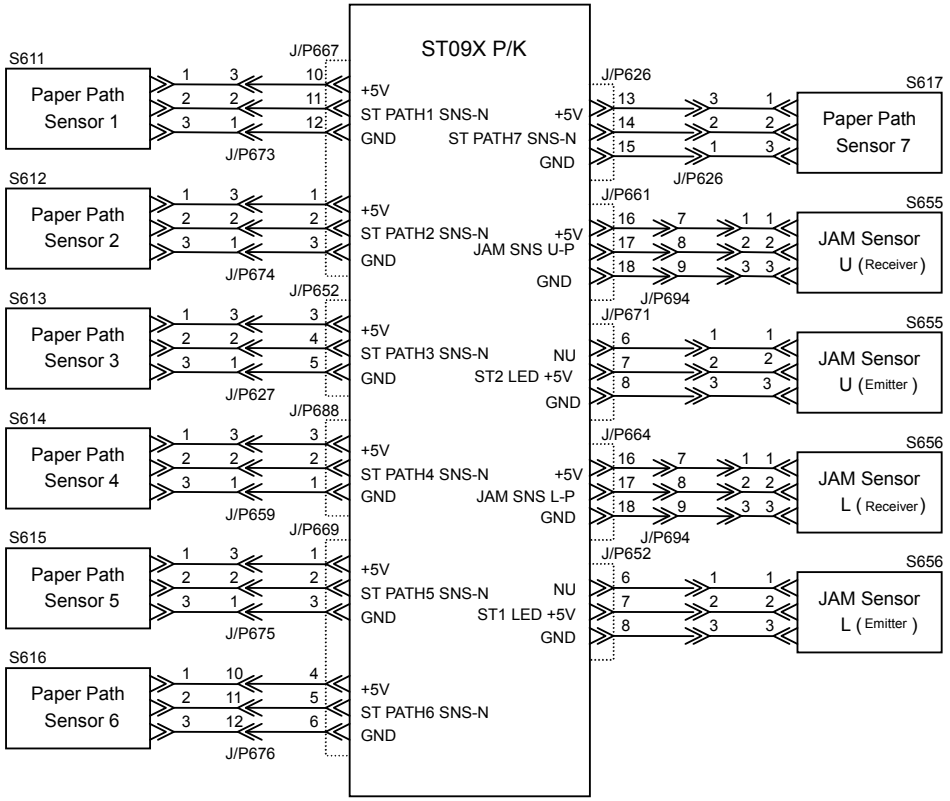


Fig. 5-4 Error codes E0B0 to E0C1

MM	L	00	

5.3.7. E092 STACKER 5 SIZE UNMATCH
E093 STACKER 6 SIZE UNMATCH
E094 STACKER 7 SIZE UNMATCH
E095 STACKER 8 SIZE UNMATCH

Primary factor; Stacker basket size does not match the pick paper size.
Detecting condition; Long-sized paper is picked though the small basket is set in the stacker.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. This error code is indicated.	1. Small basket is set in the stacker.	Replace the small basket with the large basket.	6.8.15

5.3.8. E096 STACKER SIZE UNMATCH

Primary factor; Stacker paper size does not match the pick paper size.
Detecting condition; Paper whose size is different from the stacker paper size is printed.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. This error code is indicated.	1. Different sized papers are stacked in the same stacker.	Remove the paper from the stacker.	

5.3.9 E198 CNT.STK JAM 1, E199 CNT.STK JAM 2
E19A CNT.STK JAM 3, E19B CNT.STK JAM 4
E19C CNT.STK JAM 5, E19D CNT.STK JAM 6
E19E CNT.STK JAM 7, E19F CNT.STK JAM 8

Primary factor;
E198 Paper did not arrive at the jam sensor L of the container stacker.
E199 Paper did not depart from the jam sensor L of the container stacker.
E19A Paper did not arrive at the jam sensor U of the container stacker.
E19B Paper did not depart from the jam sensor U of the container stacker.
E19C Paper did not arrive at the jam sensor L of the add-on container stacker.
E19D Paper did not depart from the jam sensor L of the add-on container stacker.
E19E Paper did not arrive at the jam sensor U of the add-on container stacker.
E19F Paper did not depart from the jam sensor U of the add-on container stacker.
Detecting condition; Jam sensor does not check paper conveyance within the specified time.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. Paper did not arrive at the jam sensor.	1. Foreign matter is on the paper path.	Remove the forein matter. Clean the paper path.	
	2. Roller is worn or the pressure is low.	Replace the roller.	6.3.2(1), 6.4.10 6.3.2(2), 6.4.11 6.3.22, 23, 24
	3. Sensor is faulty. Sensor test; Diag. No. (See right table.)	Replace the sensor. (See right table.)	See right table.
	4. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	5. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly.	
2. Paper did not depart from the jam sensor.	1. Paper is stacked improperly in the basket.	See “5.1 Stacking Error”.	
	2. Sensor is faulty. Sensor test; Diag. No. (See right table.)	Replace the sensor. (See right table.)	See right table.
	3. Stack full sensor is faulty or the stack full sensor is not mounted properly.	Replace the sensor. (See section 5.3.1.) Mount the sensor properly.	

See figure 5-4 of section 5.3.6.

Polarity when it is open:
Jam sensor: H

List of sensor Diag. No./sensor No.

Item	Error code	Diag. No.	Sensor		Reference section
			No.	Name	
(1)	E198	27	S655	Jam sensor L	6.1.7 6.8.5
(2)	E199	27	S655	Jam sensor L	
(3)	E19A	17	S653	Jam sensor U	
(4)	E19B	17	S653	Jam sensor U	
(5)	E19C	2F	S655	Jam sensor L	
(6)	E19D	2F	S655	Jam sensor L	
(7)	E19E	1F	S653	Jam sensor U	
(8)	E19F	1F	S653	Jam sensor U	

Items (1) to (4): Container stacker Items (5) to (8): Add-on container stacker

Sensor cable check list

Item	Error code	Sensor		Location of cable to be repaired
		No.	Name	
(1)	E198	S655	Jam sensor L	S655-P664, S655-P652
(2)	E199	S655	Jam sensor L	S655-P664, S655-P652
(3)	E19A	S653	Jam sensor U	S653-P661, S653-P671
(4)	E19B	S653	Jam sensor U	S653-P661, S653-P671
(5)	E19C	S655	Jam sensor L	S655-P664, S655-P652
(6)	E19D	S655	Jam sensor L	S655-P664, S655-P652
(7)	E19E	S653	Jam sensor U	S653-P661, S653-P671
(8)	E19F	S653	Jam sensor U	S653-P661, S653-P671

Items (1) to (4): Container stacker Items (5) to (8): Add-on container stacker

5.3.10 E1A0 CNT.STK FEED JAM 1, E1A1 CNT.STK FEED JAM 2
E1A2 CNT.STK FEED JAM 3, E1A3 CNT.STK FEED JAM 4
E1A4 CNT.STK FEED JAM 5, E1A5 CNT.STK FEED JAM 6
E1A6 CNT.STK FEED JAM 7, E1A7 CNT.STK FEED JAM 8
E1A8 CNT.STK FEED JAM 9, E1A9 CNT.STK FEED JAM 10
E1AA CNT.STK FEED JAM 11, E1AB CNT.STK FEED JAM 12
E1AC CNT.STK FEED JAM 13, E1AD CNT.STK FEED JAM 14
E1AE CNT.STK FEED JAM 15, E1AF CNT.STK FEED JAM 16
E1B0 CNT.STK FEED JAM 17, E1B1 CNT.STK FEED JAM 18
E1B2 CNT.STK FEED JAM 19, E1B3 CNT.STK FEED JAM 20
E1B4 CNT.STK FEED JAM 21, E1B5 CNT.STK FEED JAM 22
E1B6 CNT.STK FEED JAM 23, E1B7 CNT.STK FEED JAM 24
E1B8 CNT.STK FEED JAM 25, E1B9 CNT.STK FEED JAM 26
E1BA CNT.STK FEED JAM 27, E1BB CNT.STK FEED JAM 28

Primary factor;
E1A0 Paper did not arrive at the paper path sensor 1 of the container stacker.
E1A1 Paper did not depart from the paper path sensor 1 of the container stacker.
E1A2 Paper did not arrive at the paper path sensor 2 of the container stacker.
E1A3 Paper did not depart from the paper path sensor 2 of the container stacker.
E1A4 Paper did not arrive at the paper path sensor 3 of the container stacker.
E1A5 Paper did not depart from the paper path sensor 3 of the container stacker.
E1A6 Paper did not arrive at the paper path sensor 4 of the container stacker.
E1A7 Paper did not depart from the paper path sensor 4 of the container stacker.
E1A8 Paper did not arrive at the paper path sensor 7 of the container stacker.
E1A9 Paper did not depart from the paper path sensor 7 of the container stacker.
E1AA Paper did not arrive at the paper path sensor 5 of the container stacker.
E1AB Paper did not depart from the paper path sensor 5 of the container stacker.
E1AC Paper did not arrive at the paper path sensor 6 of the container stacker.
E1AD Paper did not depart from the paper path sensor 6 of the container stacker.
E1AE Paper did not arrive at the paper path sensor 1 of the add-on container stacker.
E1AF Paper did not depart from the paper path sensor 1 of the add-on container stacker.
E1B0 Paper did not arrive at the paper path sensor 2 of the add-on container stacker.
E1B1 Paper did not depart from the paper path sensor 2 of the add-on container stacker.
E1B2 Paper did not arrive at the paper path sensor 3 of the add-on container stacker.
E1B3 Paper did not depart from the paper path sensor 3 of the add-on container stacker.
E1B4 Paper did not arrive at the paper path sensor 4 of the add-on container stacker.
E1B5 Paper did not depart from the paper path sensor 4 of the add-on container stacker.
E1B6 Paper did not arrive at the paper path sensor 7 of the add-on container stacker.
E1B7 Paper did not depart from the paper path sensor 7 of the add-on container stacker.
E1B8 Paper did not arrive at the paper path sensor 5 of the add-on container stacker.
E1B9 Paper did not depart from the paper path sensor 5 of the add-on container stacker.
E1BA Paper did not arrive at the paper path sensor 6 of the add-on container stacker.
E1BB Paper did not depart from the paper path sensor 6 of the add-on container stacker.
Detecting condition; Paper path sensor does not check paper conveyance within the specified time.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. Paper did not arrive at the paper path sensor. Paper did not depart from the paper path sensor	1. Foreign matter is on the paper path.	Remove the forein matter. Clean the paper path.	
	2. Paper guide is not closed properly.	Close the paper guide properly.	
	3. Roller is worn or the pressure is low.	Replace the roller.	6.3.2(1), 6.6.6 6.3.2(2), 6.6.8 6.3.22, 23, 24 6.6.19
	4. Sensor is not mounted properly.	Mount the sensor properly.	See table below.
	5. Sensor is faulty. Sensor test; Diag. No. (See table below.)	Replace the sensor. (See table below.)	See table below.
	6. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly.	See table below.
	7. Motor turns abnormally due to overload.	Replace the motor. (See table below.)	See table below.
	8. Motor is faulty.	Replace the motor. (See table below.)	
	9. Solenoid is faulty.	Replace the motor. (See table below.)	6.8.2
	10. PCB is faulty.	Replace the PCB: ST09X P/K	
See figure 5-5 of section 5.3.10.			

Polarity when it is open:
Paper path sensor: H

Sensors

Item	Error code	Diag. No.	Sensor		Reference section
			No.	Name	
(1)	E1A0/E1A1 E1AE/E1AF	40 48	S611	Paper path sensor 1	6.3.3(2)
(2)	E1A2/E1A3 E1B0/E1B1	41 49	S612	Paper path sensor 2	6.3.3(1)
(3)	E1A4/E1A5 E1B2/E1B3	42 4A	S613	Paper path sensor 3	6.4.7
(4)	E1A6/E1A7 E1B4/E1B5	43 4B	S614	Paper path sensor 4	6.4.7
(5)	E1A8/E1A9 E1B6/E1B7	46 4E	S630	Paper path sensor 7	6.3.3(1)
(6)	E1AA/E1AB E1B8/E1B9	44 4C	S615	Paper path sensor 5	6.6.2
(7)	E1AC/E1AD E1BA/E1BB	45 4D	S616	Paper path sensor 6	6.6.3

Upper column: Container stacker Lower column: Add-on container stacker

Solenoids

Item	Error code	Diag. No.	Solenoid		Reference section
			No.	Name	
(1)	E1A0/E1A1 E1AE/E1AF	A6 AE	SL606	UL gate solenoid	6.3.25
(2)	E1A2/E1A3 E1B0/E1B1	A6 AE	SL606	UL gate solenoid	6.3.25
(3)	E1A4/E1A5 E1B2/E1B3	A6 AE	SL606	UL gate solenoid	6.3.25
(4)	E1A6/E1A7 E1B4/E1B5	A6 AE	SL606	UL gate solenoid	6.3.25
(5)	E1A8/E1A9 E1B6/E1B7	A5 AD	SL607	Additional gate solenoid	6.3.25
(6)	E1AA/E1AB E1B8/E1B9	A5 AD	SL607	Additional gate solenoid	6.3.25
(7)	E1AC/E1AD E1BA/E1BB	A5 AD	SL607	Additional gate solenoid	6.3.25

Upper column: Container stacker Lower column: Add-on container stacker

Motors

Item	Error code	Diag. No.	Motor		Reference section
			No.	Name	
(1)	E1A0/E1A1 E1AE/E1AF	84 94	M609	Feed motor L	6.3.8
(2)	E1A2/E1A3 E1B0/E1B1	80 90	M605	Feed motor U	6.3.7
(3)	E1A4/E1A5 E1B2/E1B3	84 94	M609	Feed motor L	6.3.8
(4)	E1A6/E1A7 E1B4/E1B5	80 90	M605	Feed motor U	6.3.7
(5)	E1A8/E1A9 E1B6/E1B7	80 90	M605	Feed motor U	6.3.7
(6)	E1AA/E1AB E1B8/E1B9	98	M602	Option feed motor	6.6.13
(7)	E1AC/E1AD E1BA/E1BB	98	M602	Option feed motor	6.6.13

Upper column: Container stacker Lower column: Add-on container stacker

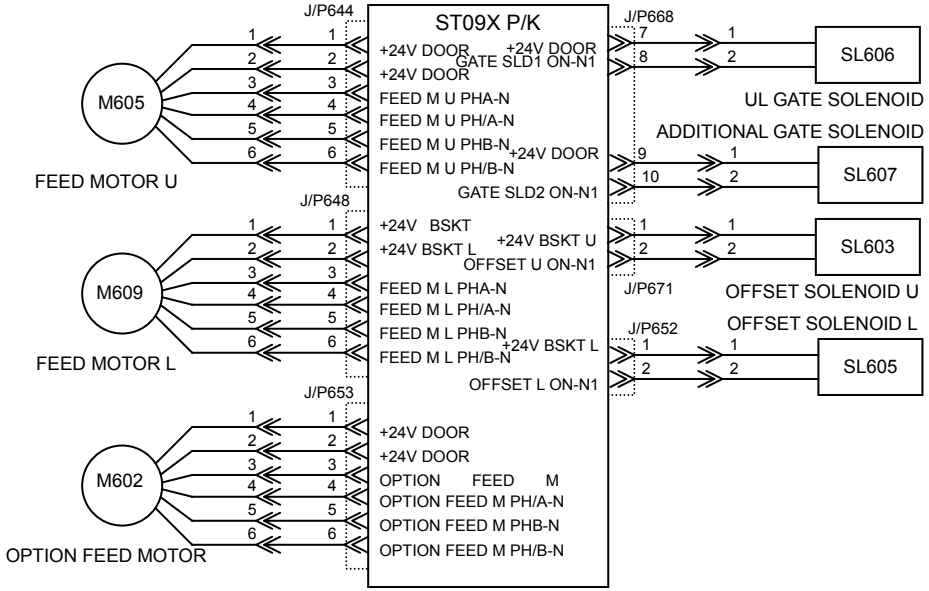


Fig. 5-5 Error codes E1A0 to E1BB

5.3.11 E293 DSE4 READ ERROR

Primary factor; DSE STATUS READ command is not issued from the controller properly.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. DSE STATUS READ command is not issued from the controller properly.	1. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly (cables between CE and PR).	
	2. PCB is faulty.	Replace the PCB: ST09X P/K, CPXXX P/K	6.8.2 7.1.5.1(13) *1

5.3.12 E294 CONT.ST INCORRECT COMMAND
E295 EXP CONT.ST INCORRECT COMMAND

Primary factor; Command is not issued to the container stacker properly.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. Command is not issued to the container stacker properly.	1. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly (cables between CE and PR).	
	2. PCB is faulty.	Replace the PCB: ST09X P/K, CPXXX P/K	6.8.2 7.1.5.1(13) *1

5.3.13 E296 CONT.ST EXIT SIGNAL ERROR
E297 EXP CONT.ST EXIT SIGNAL ERROR

Primary factor; Abnormal paper exit signal is detected from the container stacker.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. Abnormal paper discharging signal is detected from the container stacker.	1. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly (cables between units).	
	2. PCB is faulty.	Replace the PCB: ST09X P/K, CPXXX P/K	6.8.2 7.1.5.1(13) *1

5.3.14 E298 CONT.ST ROM ERROR
E299 EXP CONT.ST ROM ERROR

Primary factor; SUM CHECK error occurs in the ROM of the container stacker.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. SUM CHECK error occurs in the ROM of the container stacker.	1. PCB is faulty.	Download the microcode of this container stacker.	See Controller User's Guide.
	2. PCB is faulty.	Replace the PCB: ST09X P/K	

5.3.15. E29A CONT.ST CPU ERROR
E29B EXP CONT.ST CPU ERROR

Primary factor; CPU of the container stacker is abnormal (CPU does not operate).
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. CPU of the container stacker is abnormal (+5V READY LED on the ST09X P/K lights up).	1. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly. Check the IF cable connected to the engine.	6.8.2 Engine maintenance manual: 7.1.5.1(13)
	2. Setup of SW1 on ST093 P/K is wrong.	Check setup of SW1.	Installation Manual
	3. PCB is faulty.	Replace the PCB: ST09X P/K, CPXXX P/K	
2. CPU of the container stacker is abnormal (+5V READY LED on the ST09X P/K goes out).	1. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly. Check the cables surrounding the power supply.	
	2. PCB is faulty.	Replace the PCB: ST09X P/K, RB301 P/K	6.8.2 6.8.11
	3. Power supply is faulty.	Replace the power supply.	6.8.1

*1 Engine Maintenance Manual

5.3.16. E29C CONT.ST ACT TIMEOUT
E29D CONT.ST DORMANT TIMEOUT
E29E CONT.ST BUSY TIMEOUT
E29F CONT.ST PRINT TIMEOUT

Primary factor; E29C Container stacker does not start operation.
E29D Container stacker is not in standby mode.
E29E Container stacker is busy continuously.
E29F Container stacker is not in printing mode.
Detecting condition; Engine detects abnormality in the container stacker.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. This error code is indicated.	1. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly (cables between units).	
	2. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2

5.3.17. E2A0 CONT.ST RAM ERROR
E2A1 EXT CONT.ST RAM ERROR

Primary factor; CHECK error occurs in the RAM of the container stacker.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. CHECK error occurs in the RAM of the container stacker.	1. PCB is faulty.	Download the microcode of this container stacker.	
	2. PCB is faulty.	Replace the PCB: ST09X P/K	

5.3.18. E2B4 STACKER 5 F JOGGER POS. ERROR, E2BA STACKER 7 F JOGGER POS. ERROR
E2B5 STACKER 5 R JOGGER POS. ERROR, E2BB STACKER 7 R JOGGER POS. ERROR
E2B6 STACKER 5 STOPPER POS. ERROR, E2BC STACKER 7 STOPPER POS. ERROR
E2B7 STACKER 6 F JOGGER POS. ERROR, E2BD STACKER 8 F JOGGER POS. ERROR
E2B8 STACKER 6 R JOGGER POS. ERROR, E2BE STACKER 8 R JOGGER POS. ERROR
E2B9 STACKER 6 STOPPER POS. ERROR, E2BF STACKER 8 STOPPER POS. ERROR

Primary factor; Jogger/stopper does not detect the initial position.
Detecting condition; Output of the position sensor remains on (L) or is not turned on (L) when the jogger/stopper starts moving.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. Jogger/ stopper does not operate.	1. Motor is faulty. Check whether the jogger/stopper operates or not when powering on or resetting.	Replace the motor of the faulty jogger/stopper.	6.1.13 6.1.14 6.1.15
	2. Jogger/stopper operates slowly.	Check the jogger/stopper or the surrounding mechanism.	
	3. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	4. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly.	
2. Jogger/ stopper operates but this error code is indicated.	1. Sensor is not mounted properly.	Mount the sensor properly.	
	2. Sensor is faulty. Sensor test; Diag. No. (See table below.)	Replace the faulty sensor.	6.1.2 6.1.3 6.1.4
	3. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	4. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly.	

See figure 5-6 of section 5.3.18.

Polarity when it is open:
Jogger/stopper home sensor: H

Sensors

Item	Error code	Diag. No.	Sensor		Reference section
			No.	Name	
(1)	E2B4 E2BA	20 28	S679	F jogger home sensor L	6.1.3
(2)	E2B5 E2BB	21 29	S678	R jogger home sensor L	6.1.4
(3)	E2B6 E2BC	22 2A	S677	Stopper home sensor L	6.1.2
(4)	E2B7 E2BD	10 18	S619	F jogger home sensor U	6.1.3
(5)	E2B8 E2BE	11 19	S618	R jogger home sensor U	6.1.4
(6)	E2B9 E2BF	12 1A	S617	Stopper home sensor U	6.1.2

Upper column: Container stacker Lower column: Add-on container stacker

Motors

Item	Error code	Diag. No.	Motor		Reference section
			No.	Name	
(1)	E2B4 E2BA	85 95	M612	F jogger motor L	6.1.14
(2)	E2B5 E2BB	86 96	M613	R jogger motor L	6.1.15
(3)	E2B6 E2BC	87 97	M614	Stopper motor L	6.1.13
(4)	E2B7 E2BD	81 91	M606	F jogger motor U	6.1.14
(5)	E2B8 E2BE	82 92	M607	R jogger motor U	6.1.15
(6)	E2B9 E2BF	83 93	M608	Stopper motor U	6.1.13

Upper column: Container stacker Lower column: Add-on container stacker

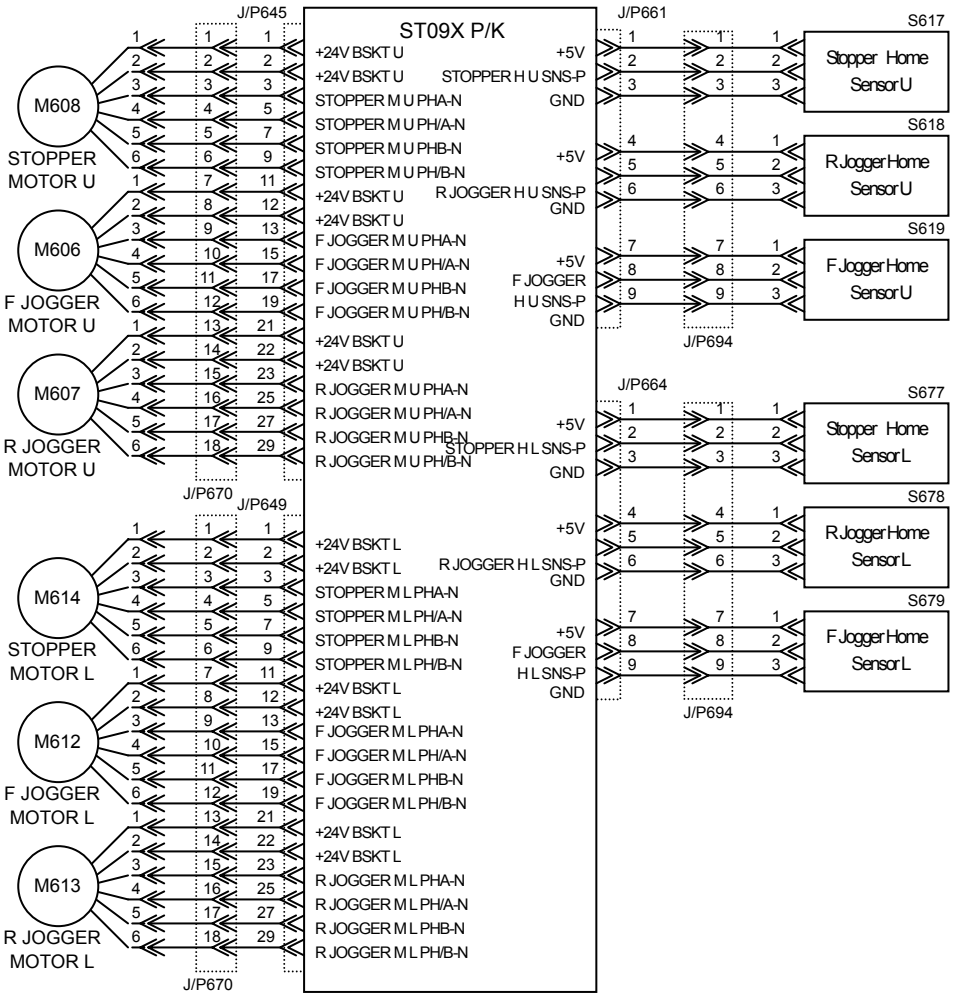


Fig. 5-6 Error codes E2B4 to E2BF

5.3.19. E278 STACKER 5 TBL UP TIMEOUT
E27A STACKER 6 TBL UP TIMEOUT
E27C STACKER 7 TBL UP TIMEOUT
E27E STACKER 8 TBL UP TIMEOUT

Primary factor; Table moves up improperly.
Detecting condition; Table height sensor is not turned on (H) even though 17 seconds are passed from the start of table moving up or the table upper limit sensor is turned on (H).
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. Table does not move.	1. Sensor is faulty. Sensor test; E278: Diag. No. 26/23 E27A: Diag. No. 16/13 E27C: Diag. No. 2E/2B E27E: Diag. No. 1E/1B	Replace the sensor. E278/E27C: Table upper limit sensor L (S689), Table over load sensor L (S688) E279/E27E: Table upper limit sensor U (S629), Table over load sensor U (S628)	6.2.7
	2. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly. E278/E27C:M616-P655 S689-P663 E279/E27E:M611-P655 S629-P660	
	3. Wire is cut.	Replace the wire.	6.2.8
	4. Motor is faulty.	Replace the table motor. E278/E27C: Table motor L (M616) E279/E27E: Table motor U (M611)	6.2.6
	5. PCB is faulty.	Replace the PCB. ST09X P/K	6.8.2
	6. Drawer is not mounted properly on the slide rail.	Mount the drawer correctly.	
2. This error code is indicated even though table is moving.	1. Table is not set in the basket.	Set the table in the basket.	6.8.15
	2. Sensor is faulty. Sensor test; E278: Diag. No. 25 E27A: Diag. No. 15 E27C: Diag. No. 2D E27E: Diag. No. 1D	Replace the sensor. E278/E27C: Table height sensor L (S680) E279/E27E: Table height sensor U (S620)	6.1.6
	3. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly. E278/E27C: S680-P664 E279/E27E: S620-P661	
	4. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	5. Table or table motor operates abnormally due to overload.	Replace the lift unit.	6.2.1
3. This error code is indicated even though basket is not set.	1. Sensor is faulty. Sensor test; E278: Diag. No. 31/33 E27A: Diag. No. 30/32 E27C: Diag. No. 39/3B E27E: Diag. No. 38/3A	Replace the sensor. E278/E27C: S/L basket sensor L (S636/S633) E279/E27E: S/L basket sensor U (S635/S634)	6.8.8
	2. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly. E278/E27C: S636-P668 S633-P668 E279/E27E: S635-P668 S634-P668	
	3. PCB is faulty.	Replace the PCB. ST09X P/K	6.8.2

See figure 5-7 of section 5.3.20.

Polarity when it is open:
Table upper limit sensor: H
Table height Sensor: H
S/L basket sensor: H

5.3.20. E279 STACKER 5 TBL DOWN TIMEOUT
E27B STACKER 6 TBL DOWN TIMEOUT
E27D STACKER 7 TBL DOWN TIMEOUT
E27F STACKER 8 TBL DOWN TIMEOUT

Primary factor; Table moves down improperly.
Detecting condition; Table lower limit sensor is not turned on (H) even though 17 seconds are passed from the start of table moving down or the table overload sensor is turned on (H).
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. Table does not move.	1. Sensor is faulty. Sensor test; E279: Diag. No. 23 E27B: Diag. No. 13 E27D: Diag. No. 2B E27F: Diag. No. 1B	Replace the sensor. E279/E27D: Table overload sensor L (S688) E27B/E27F: Table overload sensor U (S628)	6.2.2
	2. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly. E279/E27D: S688-P663 E27B/E27F: S628-P660	
	3. Wire is cut.	Replace the wire.	6.2.8
	4. Motor is faulty.	Replace the table motor.	6.2.6
	5. PCB is faulty.	Replace the PCB. ST09X P/K	6.8.2
2. This error code is indicated even though table is moving.	1. Paper is protruded from the basket.	Remove the paper protruded from the basket. Reinstall the wire if it is loose. Check the operation of the stopper motor and the amount of paper curl.	
	2. Sensor is faulty. Sensor test; E278: Diag. No. 24 E279: Diag. No. 14 E27C: Diag. No. 2C E27E: Diag. No. 1C	Replace the sensor. E279/E27D: Table lower limit sensor L (S687) E27B/E27F: Table lower limit sensor U (S627)	6.2.7
	3. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly. E279/E27D: S687-P663 E27B/E27F: S627-P660	
	4. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	5. Table or table motor operates abnormally due to overload.	Replace the lift unit or the table motor.	6.2.1

See figure 5-7 of section 5.3.20.

Polarity when it is open:
Table overload sensor: H
Table lower limit sensor: H

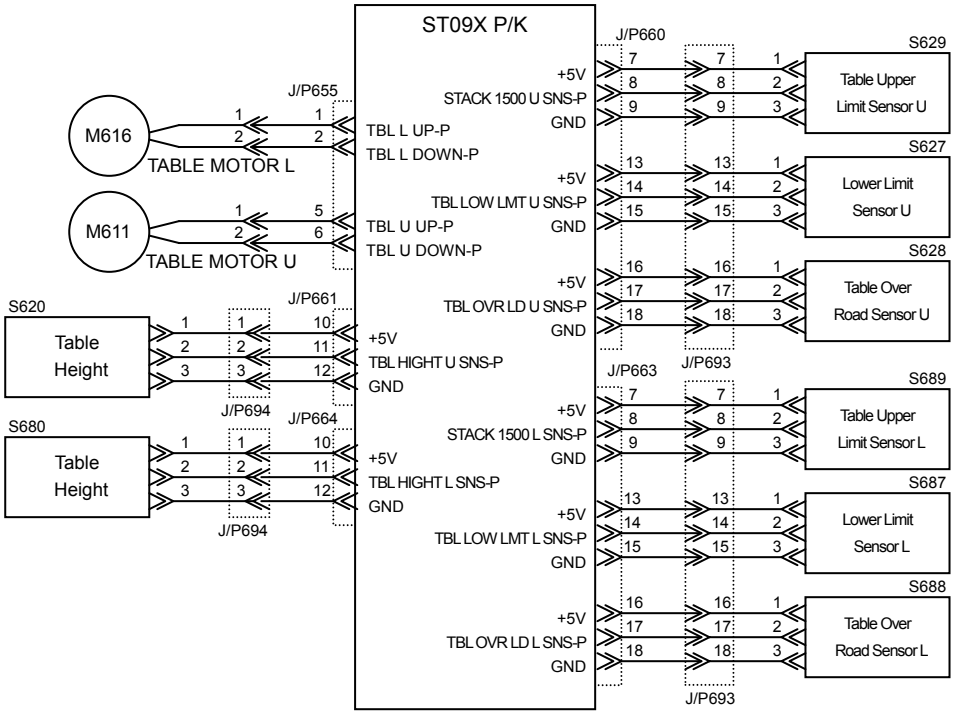


Fig. 5-7 Error codes E278 to E27F

5.3.21. E2E4 CONT.ST POWER ERROR
E2E6 EXP CONT.ST POWER ERROR

Primary factor; Abnormal drive power supply is detected on the ST P/K of the container stacker.
Detecting condition; +24V that supplies voltage from the power supply of the container stacker to the ST P/K is turned off.
Resetting condition; When reset SW pushed.

Phenomenon	Causes and check points	Corrective actions	Reference section
1. White pin of the +24V breaker (CB1) of the ST P/K is not protruded.	1. Cable is disconnected. Check the cable visually and also check the continuity.	Repair the cable or connect the connector properly. Power supply (CN2)-P635 Power supply (CN3)-P636	
	2. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2
	3. Power supply is faulty.	Replace the power supply: Container stacker power supply	6.8.1
2. White pin of the +24V breaker (CB1) of the ST P/K is protruded.	1. +24V load system of the ST P/K that causes the error is faulty.	Check the feeder cable of the +24V load. See general wiring diagrams.	
	2. PCB is faulty.	Replace the PCB: ST09X P/K	6.8.2

Chapter 6 Disassembly, reassembly and adjustment

6.1 Removal of Jogger Unit

6.1.1 Removal of Jogger Ass'y U/L

6.1.1 (1) Removal of Jogger Ass'y U

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (upper) and the front cover (R) ass'y (see section 3.4.1).
2. Remove the rear cover ass'y, the side cover ass'y and the T cover ass'y (see section 3.4.2).
3. Remove the door lock ass'y (upper) (see section 6.8.10).
4. Remove the tray ass'y (see secton 6.5.1) or the add-on ass'y (see section 6.6.1).
5. Remove the five connectors.
6. Remove the three plus screws and the jogger ass'y U.

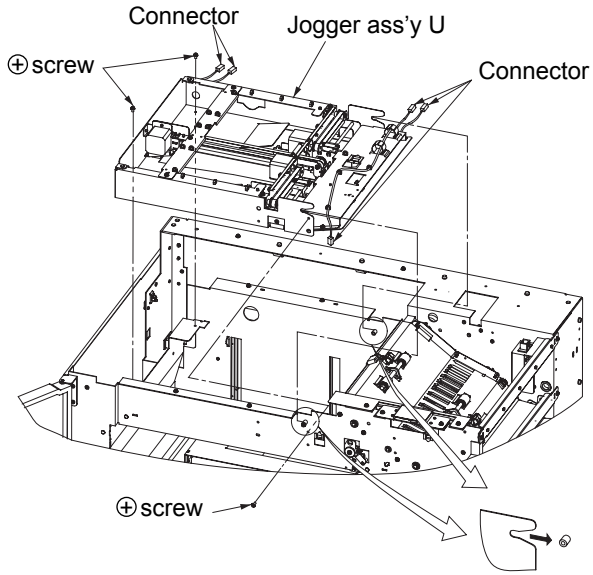


Fig. 6-1. Removal of the jogger ass'y U

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.1.1 (2) Removal of Jogger Ass'y L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Note: Disconnect the container stacker ass'y 2 from the container stacker ass'y 1 or the finisher before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the front cover (L) ass'y (upper and lower) and the front cover (R) ass'y (see section 3.4.1).
2. Remove the side cover ass'y and the rear cover ass'y (see section 3.4.2).
3. Remove the door lock ass'y (lower) (see section 6.8.10).
4. Remove the drawer ass'y (upper) (see section 6.7.1).
5. Remove the five plus screws and the middle cover.
6. Disconnect the six connectors.
7. Remove the three plus screws and the jogger ass'y L.

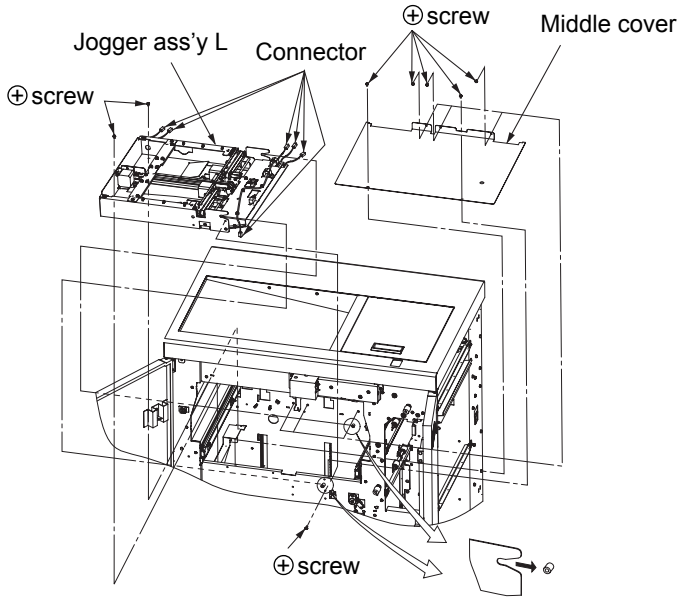


Fig.6-2. Removal of the jogger ass'y L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

MM	L	00	

6.1.2 Removal of Stopper Home Sensor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Disconnect the connector.
3. Remove the plus screw and the stopper sensor holder.
4. Remove the stopper home sensor.

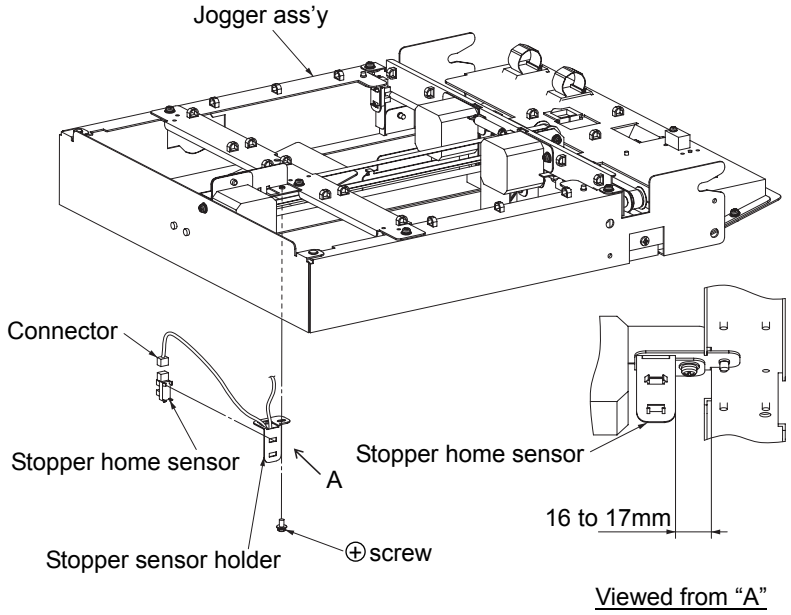


Fig. 6-3. Removal of the stopper home sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
See "A" for the mounting position of the stopper sensor holder.

6.1.3 Removal of F Jogger Home Sensor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Disconnect the connector.
3. Remove the plus screw and the jogger sensor holder.
4. Remove the F jogger home sensor.

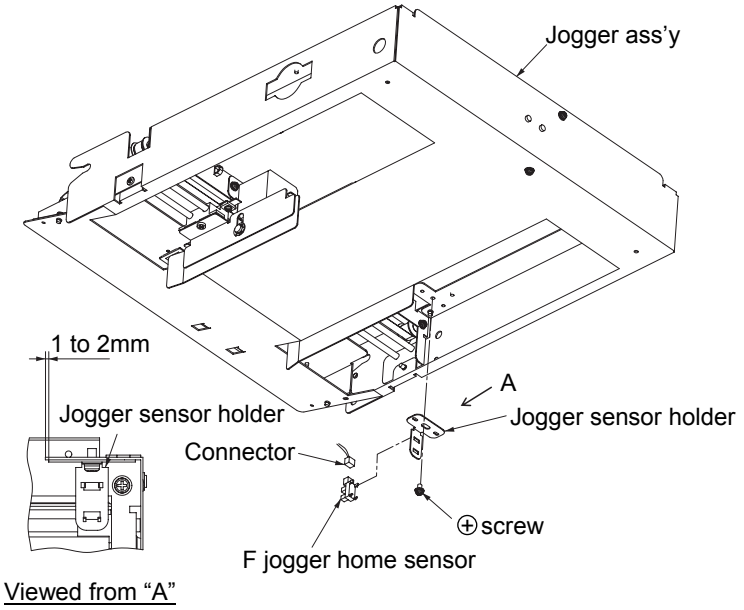


Fig. 6-4. Removal of the F jogger home sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
See "A" for the mounting position of the jogger sensor holder.

6.1.4 Removal of R Jogger Home Sensor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Disconnect the connector.
3. Remove the plus screw and the jogger sensor holder.
4. Remove the R jogger home sensor.

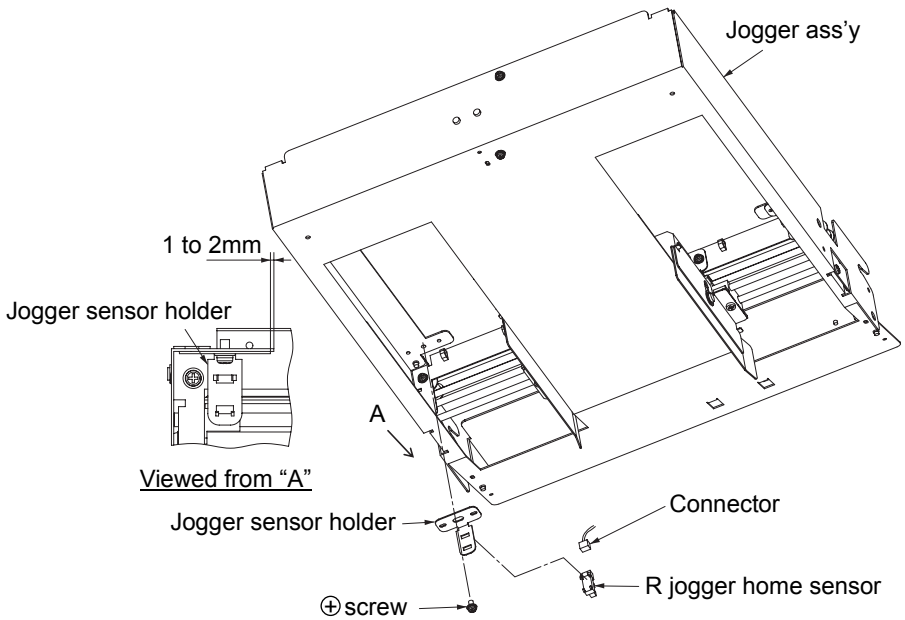


Fig. 6-5. Removal of the R jogger home sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
See "A" for the mounting position of the jogger sensor holder.

6.1.5 Removal of Poly Slider U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the two E-rings and the two poly sliders.

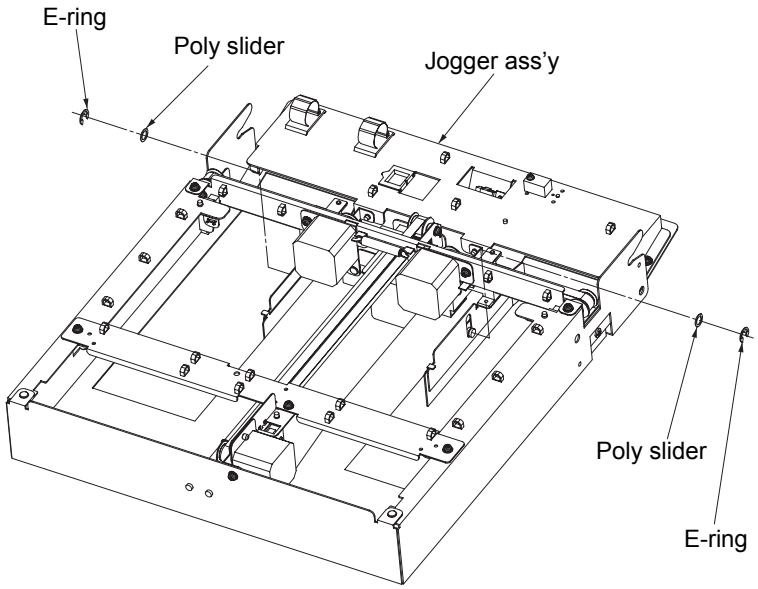


Fig. 6-6. Removal of the poly slider U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.1.6 Removal of Table Upper Limit Sensor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Disconnect the connector.
3. Remove the table upper limit sensor.

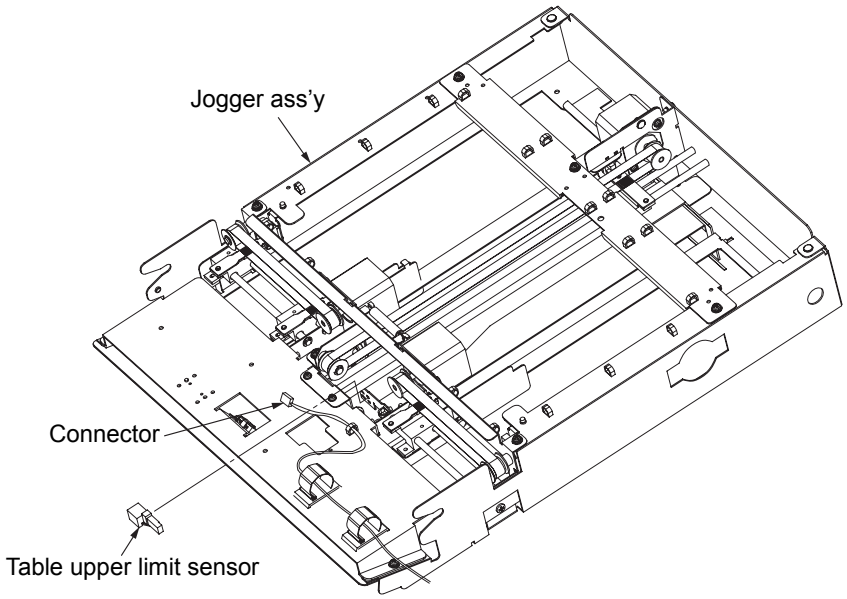


Fig. 6-7. Removal of the table upper limit sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.1.7 Removal of Jam Sensor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the seven plus screws and the sensor holder.
3. Disconnect the connector.
4. Remove the plus screw then the sensor hold (PHO) and the jam sensor.

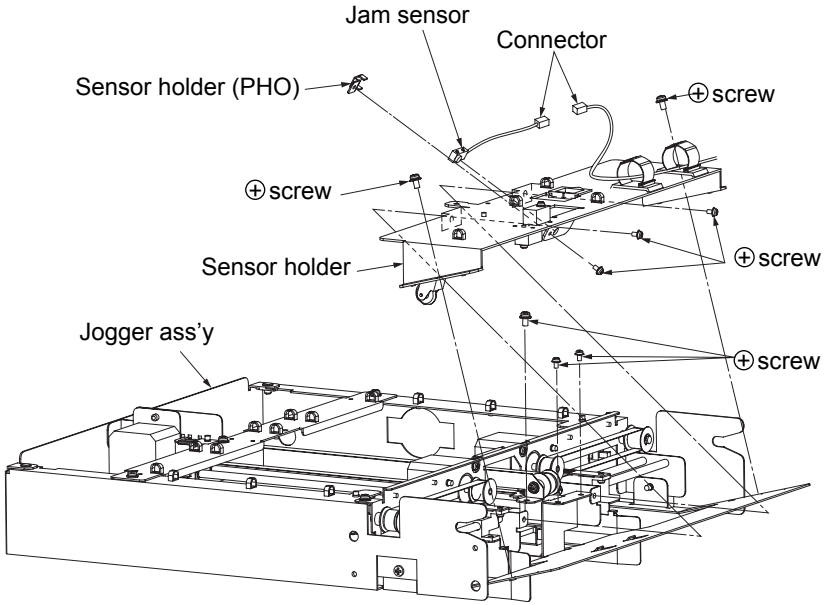


Fig. 6-8. Removal of the jam sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.1.8 Removal of Paper Empty Sensor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the sensor holder (see section 6.1.7).
3. Disconnect the two connectors.
4. Remove the plus screw and the paper empty sensor U.
5. Remove the plus screw and the paper empty sensor L (lower part only).

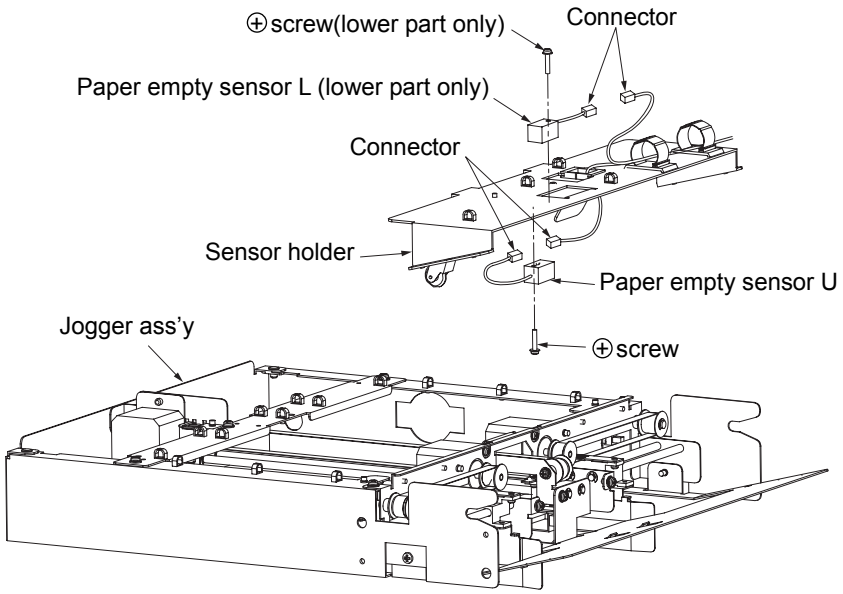


Fig. 6-9. Removal of the paper empty sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.1.9 Removal of Timing Belt (stopper side) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the plus screw and the stopper plate.
3. Remove the two plus screws and the actuator.
4. Loosen the plus screw and turn the stopper motor in the arrow "B" direction then tighten the plus screw.
5. Remove the timing belt (stopper side).

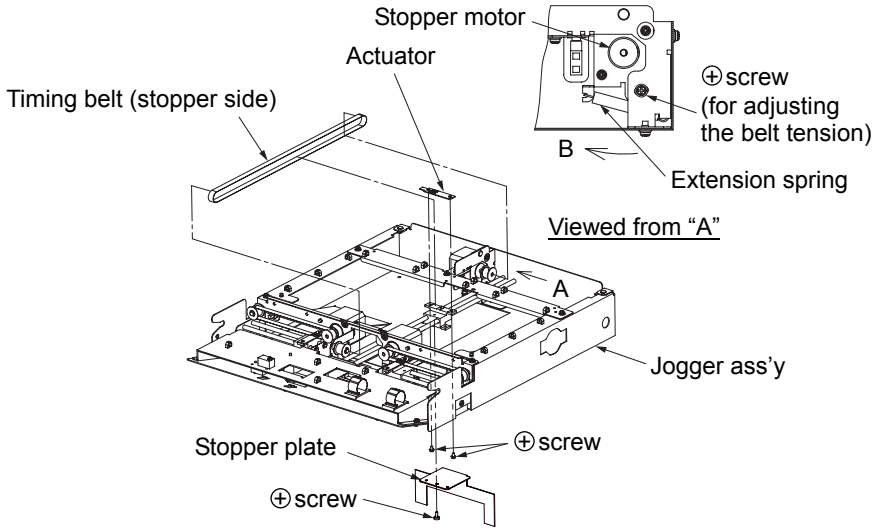


Fig. 6-10. Removal of the timing belt (stopper side) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
The timing belt tension is mechanically determined only by the elasticity of the extension spring. After reassembly, loosen the plus screw for adjusting the belt tension and retighten the plus screw.

6.1.10 Removal of Timing Belt (Front/Rear) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the two plus screws, jogger plate (F) ass'y and jogger plate (R) ass'y.
3. Remove the four plus screws and two actuators.
4. Loosen the plus screw and turn the F jogger motor in the arrow "B" direction then tighten the plus screw.
5. Remove the timing belt (front).
6. Loosen the plus screw and turn the R jogger motor in the arrow "C" direction then tighten the plus screw.
7. Remove the timing belt (rear).

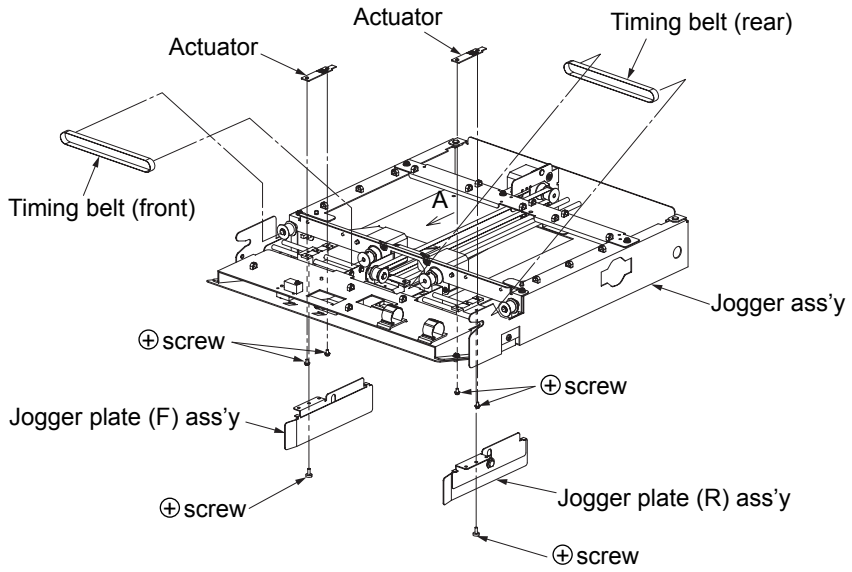


Fig. 6-11. Removal of the timing belt (front/rear) U/L

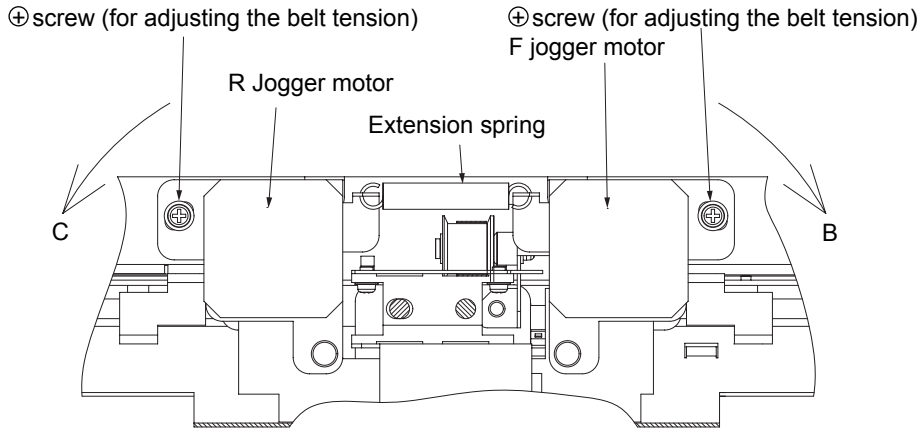


Fig. 6-12. Removal of the timing belt (front/rear) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
The timing belt tension is mechanically determined only by the elasticity of the extension spring. After reassembly, loosen the plus screw for adjusting the belt tension and retighten the plus screw.

6.1.11 Removal of S Tension Pulley U/L

6.1.11 (1) Removal of S Tension Pulley (stopper side) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (stopper side) (see section 6.1.9).
3. Remove the E-ring and the jogger pulley flange.
4. Remove the S tension pulley (stopper side).

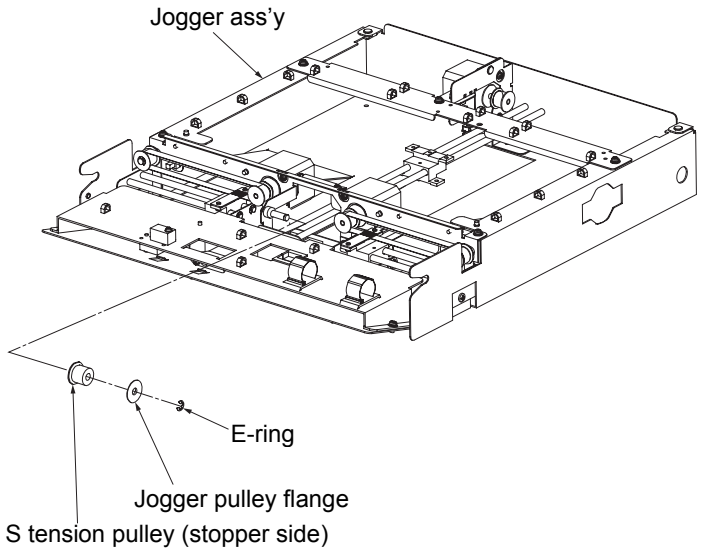


Fig. 6-13. Removal of the S tension pulley (stopper side) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.1.11 (2) Removal of S Tension Pulley (front) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (front) (see section 6.1.10).
3. Remove the E-ring and the jogger pulley flange.
4. Remove the S tension pulley (front).

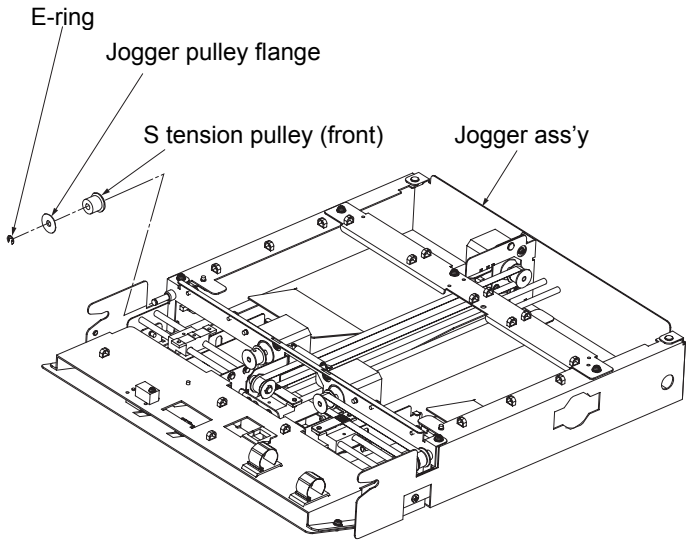


Fig. 6-14. Removal of the S tension pulley (front) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.1.11 (3) Removal of S Tension Pulley (rear) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (rear) (see section 6.1.10).
3. Remove the E-ring and the jogger pulley flange.
4. Remove the S tension pulley (rear).

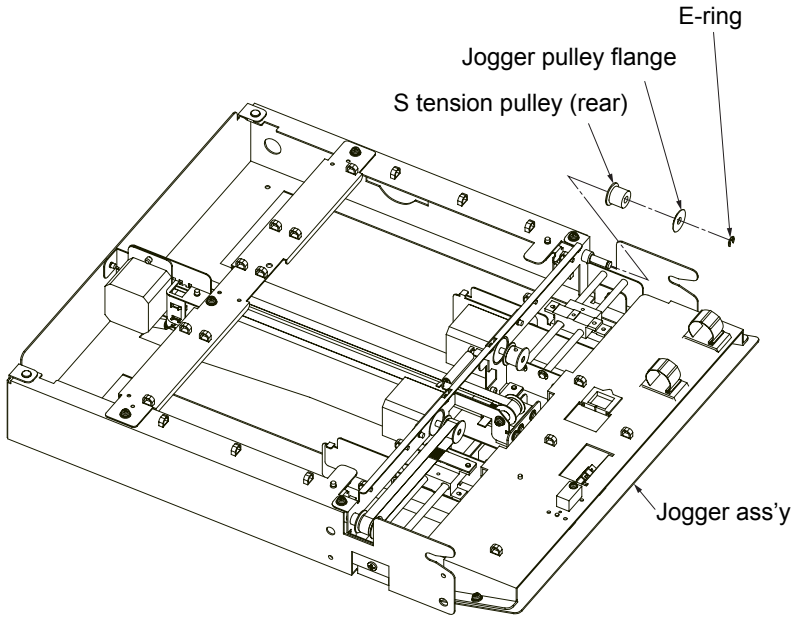


Fig. 6-15. Removal of the S tension pulley (rear) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.1.12 Removal of Linear Sleeve U/L

6.1.12 (1) Removal of Linear Sleeve (stopper side) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver, pliers and silicone grease

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (stopper side) (see section 6.1.9).
3. Remove the sensor holder (see section 6.1.6).
4. Remove the four E-rings and two stopper shafts.
5. Remove the plus screw, stopper plate and linear sleeve (stopper side).

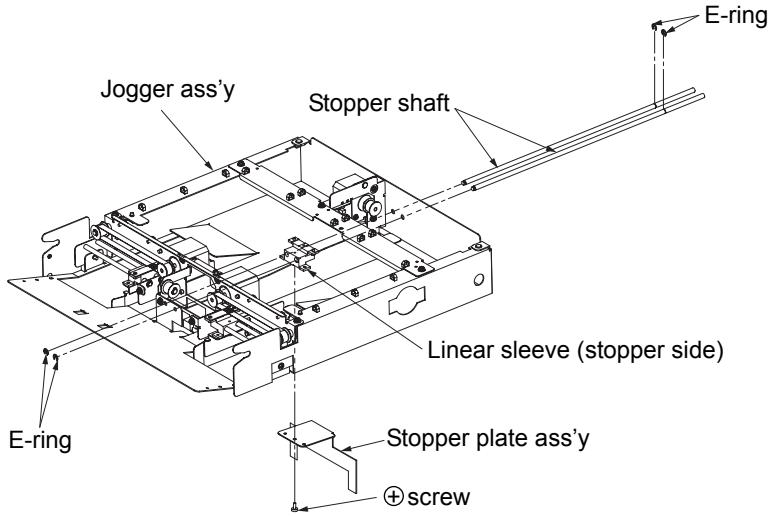


Fig. 6-16. Removal of the linear sleeve (stopper side) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
Apply silicone grease to the stopper shaft.

[Check]
See section 6.1.9 for the belt tension.

6.1.12 (2) Removal of Linear Sleeve (front) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver, pliers and silicone grease

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (stopper/front) (see sections 6.1.9 and 6.1.10).
3. Remove the sensor holder (see section 6.1.6).
4. Disconnect the two connectors.
5. Remove the five plus screw and the jogger motor ass'y.
6. Remove the two E-rings and two jogger shafts.
7. Remove the plus screw, jogger plate F ass'y and linear sleeve (front).

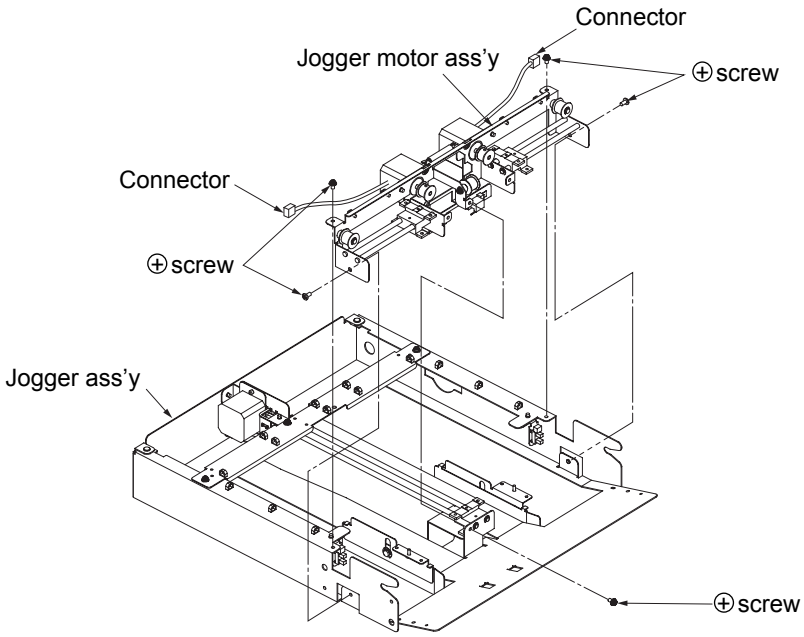


Fig. 6-17. Removal of the linear sleeve (front) U/L

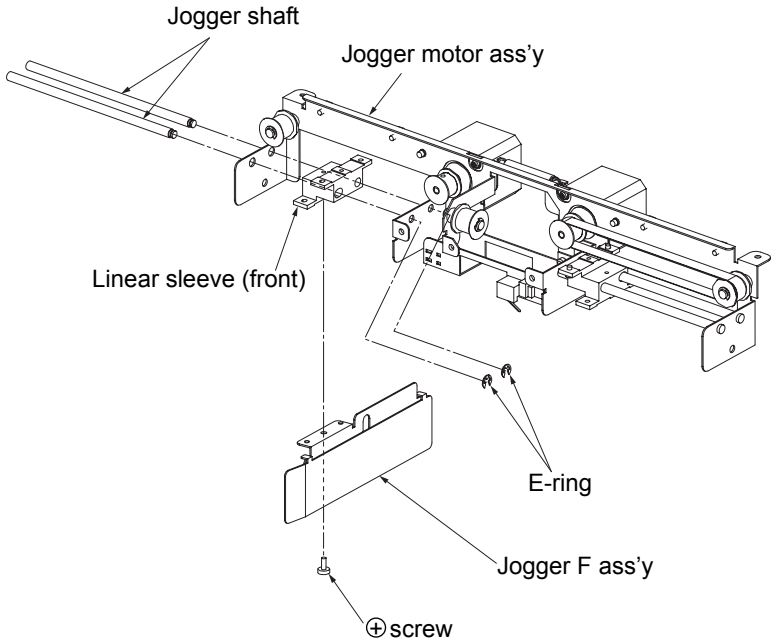


Fig. 6-18. Removal of the linear sleeve (front) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
Apply silicone grease to the jogger shaft.

[Check]
See sections 6.1.9 and 6.1.10 for the belt tension.

6.1.12 (3) Removal of Linear Sleeve (rear) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver, pliers and silicone grease

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (stopper/rear) (see section 6.1.9 and 6.1.10).
3. Remove the jogger motor ass'y (see section 6.1.12 (2)).
4. Remove the two E-rings and two jogger shafts.
5. Remove the plus screw, jogger plate (R) ass'y and linear sleeve (rear).

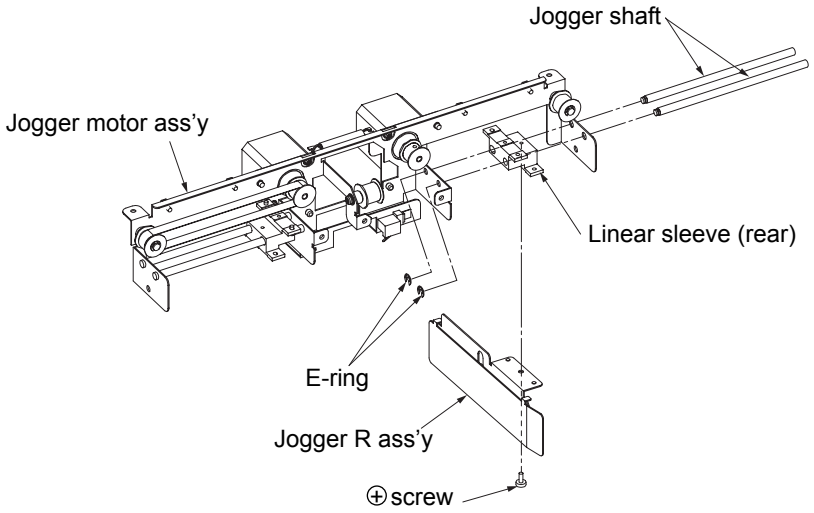


Fig. 6-19. Removal of the linear sleeve (rear) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
Apply silicone grease to the jogger shaft.

[Check]
See sections 6.1.9 and 6.1.10 for the belt tension.

6.1.13 Removal of Stopper Motor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver and hexagonal wrench

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (stopper side) (see section 6.1.9).
3. Disconnect the two connectors.
4. Remove the three plus screws and the jogger stay.
5. Remove the two plus screws and stopper motor ass'y.
6. Remove the two plus screws and the stopper motor.
7. Remove the hex. socket set screw and the jogger motor pulley.

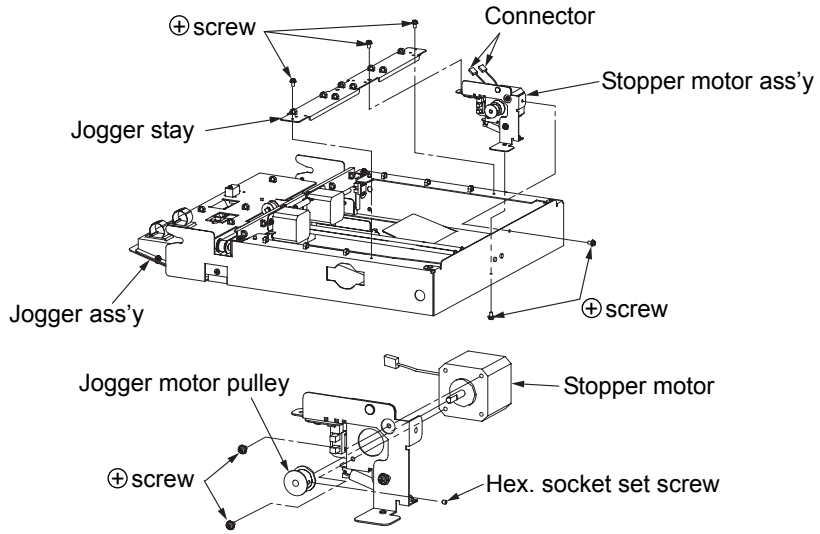


Fig. 6-20. Removal of the stopper motor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
See section 6.1.9 for the belt tension.

6.1.14 Removal of F Jogger Motor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver, pliers and hexagonal wrench

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (stopper/front) (see sections 6.1.9 and 6.1.10).
3. Remove the linear sleeve (front) (see section 6.1.12 (2)).
4. Remove the two plus screws and the F jogger motor.
5. Remove the hex. socket set screw and the jogger motor pulley.

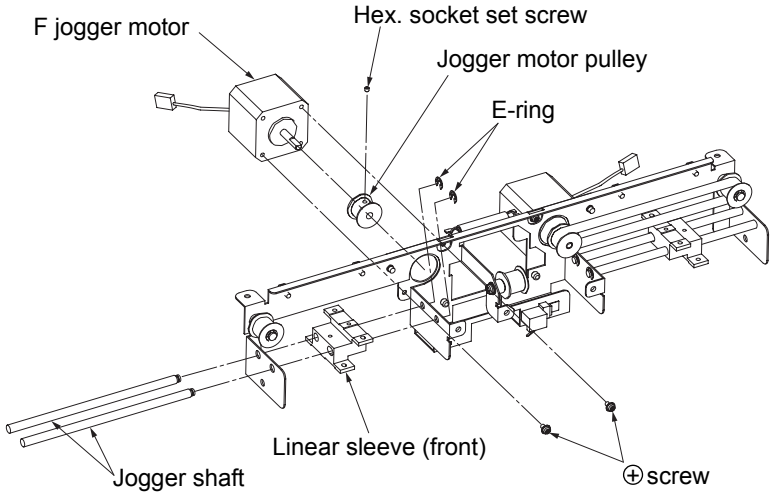


Fig. 6-21. Removal of the F jogger motor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
See sections 6.1.9 and 6.1.10 for the belt tension.

6.1.15 Removal of R Jogger Motor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver, pliers and hexagonal wrench

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (stopper/rear) (see sections 6.1.9 and 6.1.10).
3. Remove the linear sleeve (rear) (see section 6.1.12 (3)).
4. Remove the two plus screws and the R jogger motor.
5. Remove the hex. socket set screw and the jogger motor pulley.

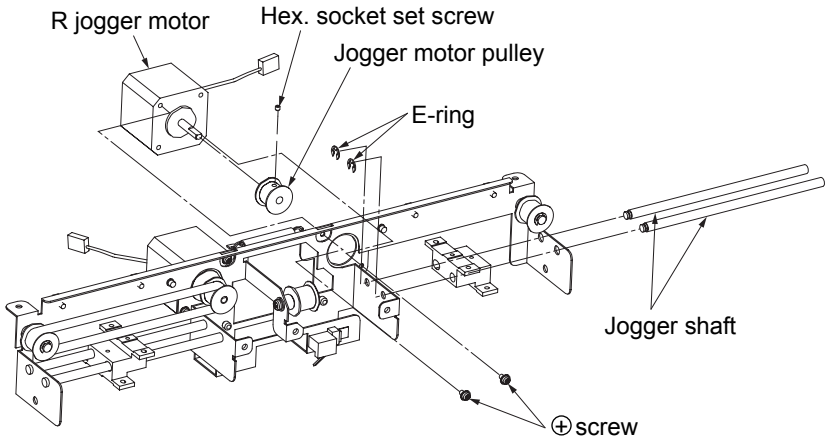


Fig. 6-22. Removal of the R jogger motor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
See sections 6.1.9 and 6.1.10 for the belt tension.

6.1.16 Removal of Extension Spring U/L

6.1.16 (1) Removal of Extension Spring (stopper side) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the stopper motor ass'y (see section 6.1.13).
3. Loosen the plus screw and turn the stopper motor in the arrow "A" direction to remove the extension spring (stopper side).

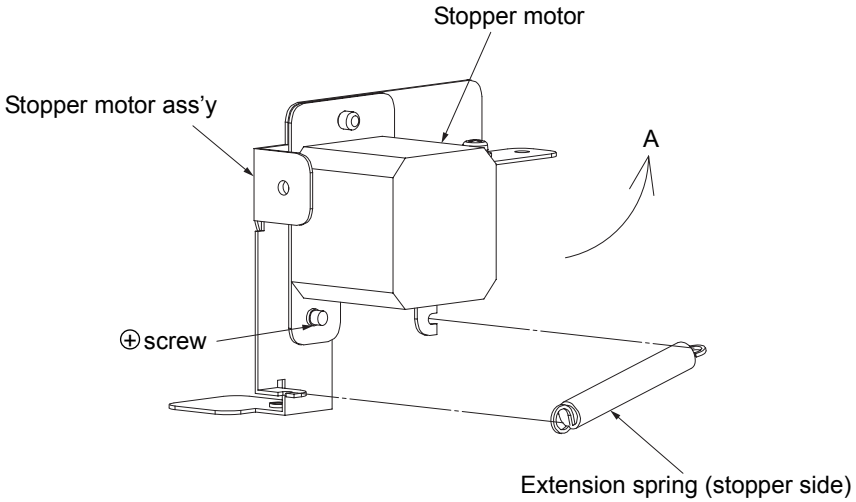


Fig. 6-23. Removal of the extension spring (stopper side) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
See section 6.1.9 for the belt tension.

6.1.16 (2) Removal of Extension Spring (jogger side) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the jogger ass'y (see section 6.1.1).
2. Remove the timing belt (front) (see section 6.1.10).
3. Loosen the plus screw and turn the F jogger motor in the arrow "A" direction to remove the extension spring (jogger side).

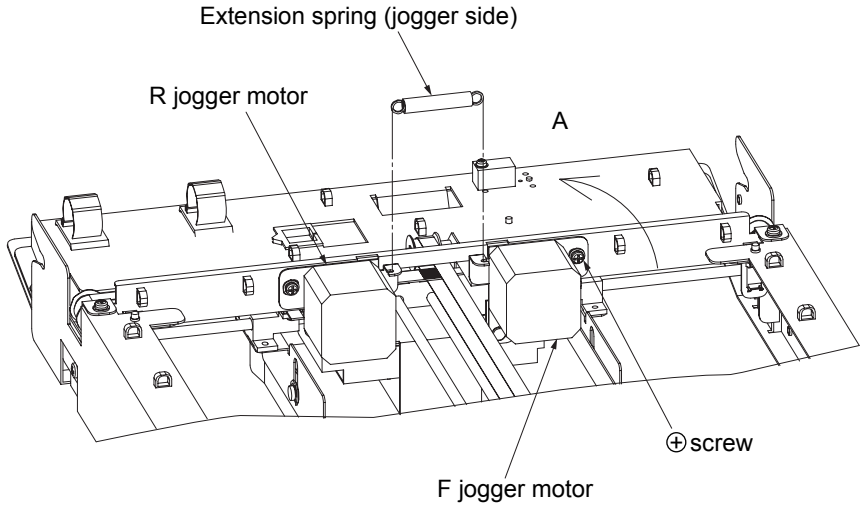


Fig. 6-24. Removal of the extension spring (jogger side) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
See section 6.1.10 for the belt tension.

6.2 Removal of Lift Unit

6.2.1 Removal of Fork Lift Ass'y U/L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Pull out the drawer ass'y (see section 6.7.1).
2. Remove the rear cover ass'y (see section 3.4.2).
3. Remove the two plus screws and the lift cover.
4. Release the cable from the three cable clamps.
5. Disconnect the two connectors.
6. Remove the four plus screws and the fork lift ass'y.

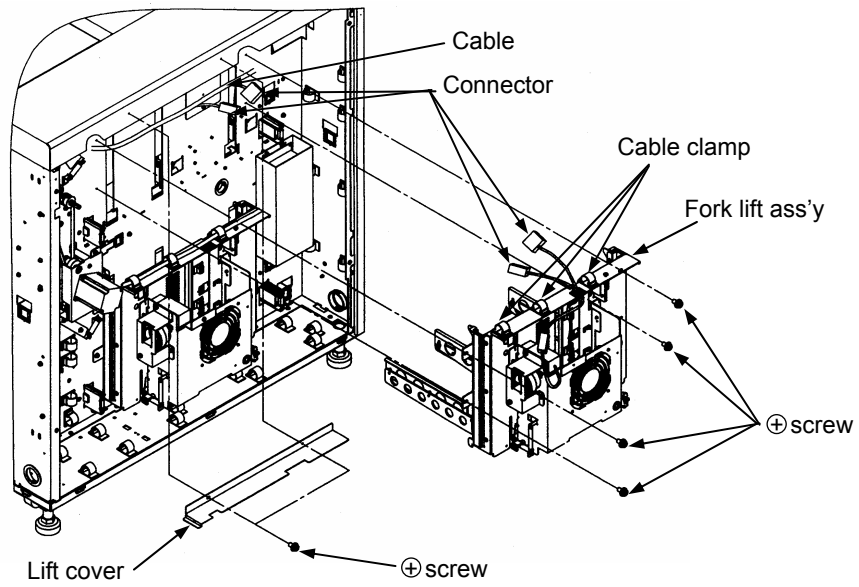


Fig. 6-25. Removal of the fork lift ass'y U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.2.2 Removal of Table Overload Sensor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Disconnect the connector and remove the table overload sensor.

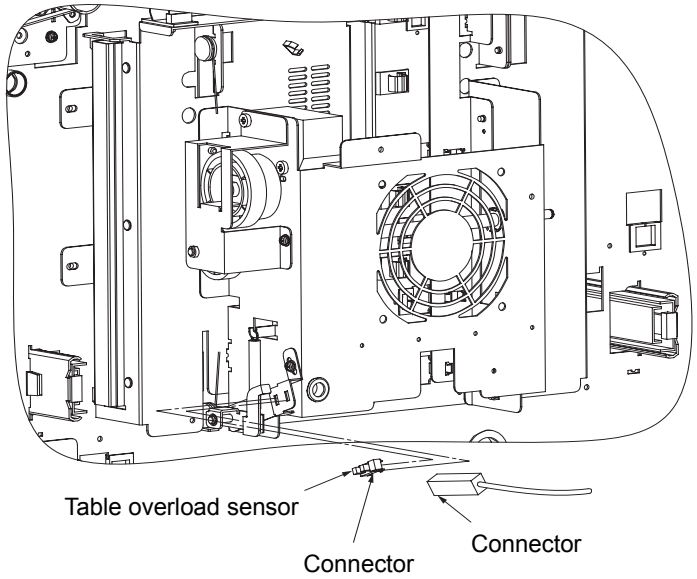


Fig. 6-26. Removal of the table overload sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that the table overload sensor is mounted in the proper direction as shown in Fig. 6-26.

6.2.3 Removal of Delrin Bearing [1] U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Remove the Delrin bearing [1].

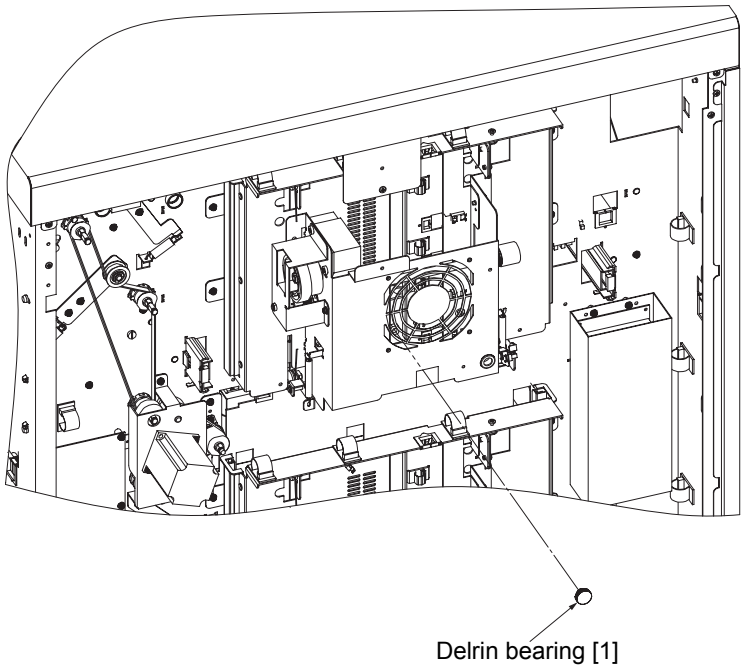


Fig. 6-27. Removal of the Delrin bearing [1] U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.2.4 Removal of Sleeve Bearings [1] and [2] U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Remove the two plus screws, gear holder, sleeve bearings [1] and [2].

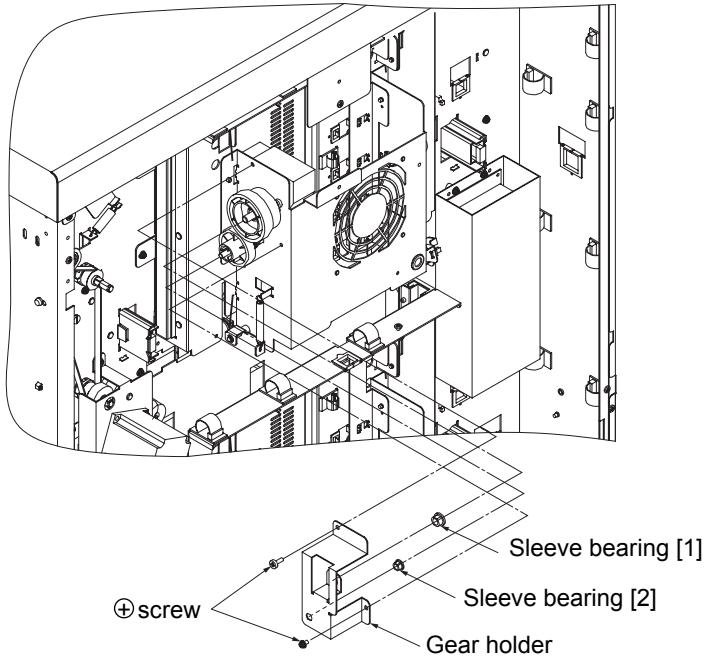


Fig. 6-28. Removal of the sleeve bearings [1] and [2] U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.2.5 Removal of Motor Gear LH U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.
Be careful not to drop the D3 x 16 pin inside the printer during maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the sleeve bearing [1] (see section 6.2.4).
2. Remove the motor gear LH and the D3 x 16 pin.

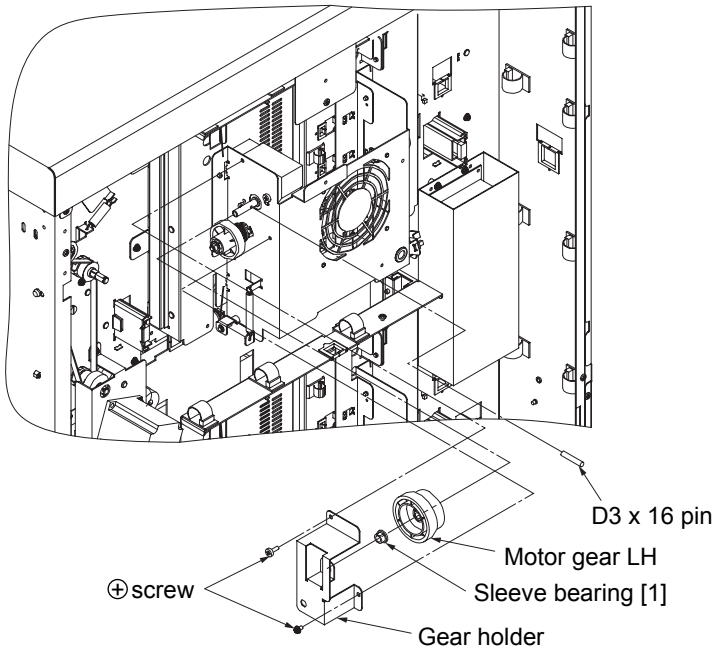


Fig. 6-29. Removal of the motor gear LH U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.2.6 Removal of Geared Motor 2000 U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.
Be careful not to drop the D3 x 16 pin inside the printer during maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the motor gear LH (see section 6.2.5).
2. Disconnect the connector.
3. Remove the two plus screws and the geared motor 2000.

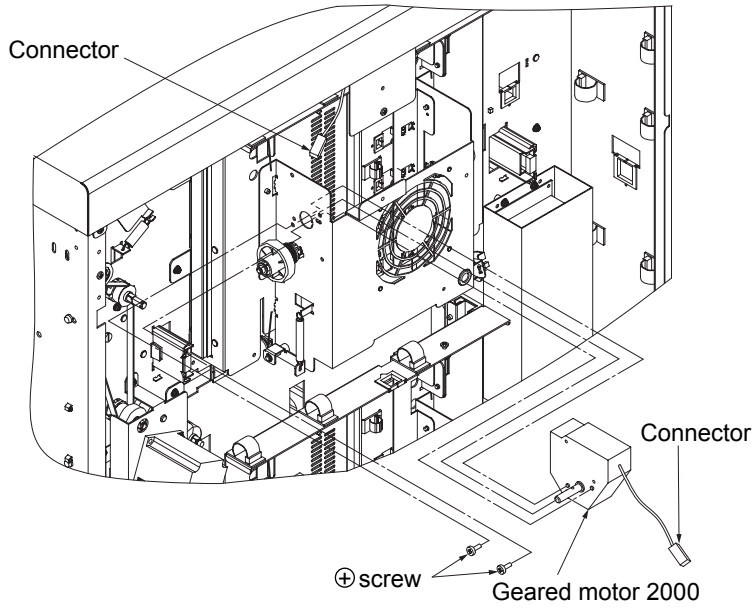


Fig. 6-30. Removal of the geared motor 2000 U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.2.7 Removal of Position Sensor U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.
Be careful not to drop the D3 x 16 pin inside the printer during maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the motor gear LH (see section 6.2.5).
2. Position the fork lift ass'y as shown in Fig. 6-31.
3. Slide the container fork ass'y and disconnect the five connectors. Remove the five sensors.

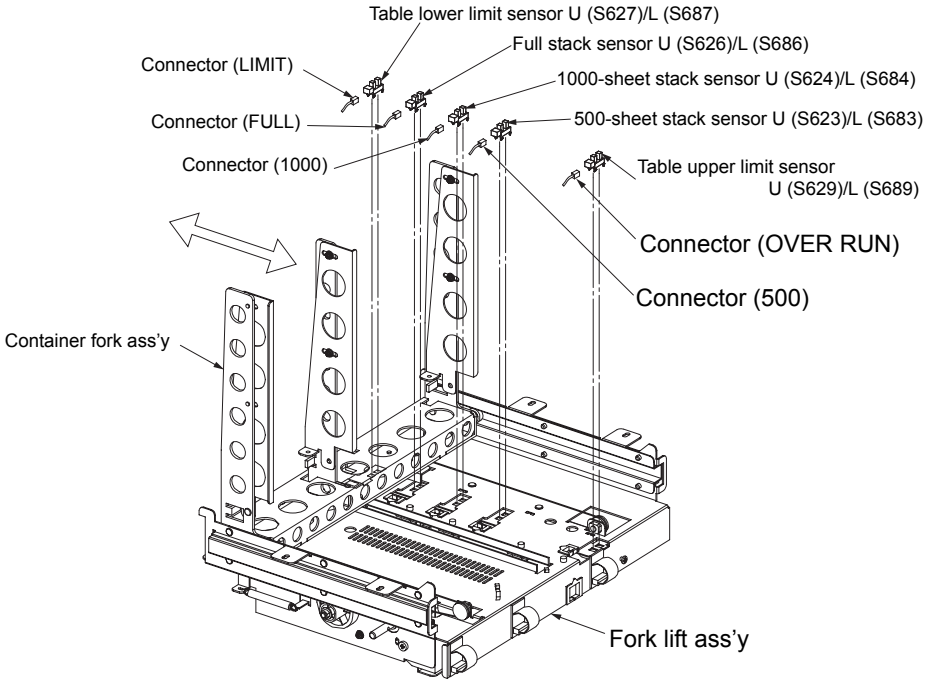


Fig. 6-31. Removal of the position sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.2.8 Removal of Wire (Fork Sensor Plate) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.
Be careful not to drop the D3 x 14 pin and the D3 x 16 pin inside the printer during maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the motor gear LH (see section 6.2.5).
2. Put the fork lift ass'y on the table and position it as shown in Fig. 6-32.
3. Remove the four plus screws and the container fork ass'y.
4. Remove the two extension springs (see section 6.2.11).
5. Remove the sleeve bearing [2], two E-rings, plus screw [2], driver gears [1] and [2], two. D3x14 pins and wire guard plate [2].
6. Remove the two wires (fork sensor plate) from the four delrin bearings and the drive gears [1] and [2].

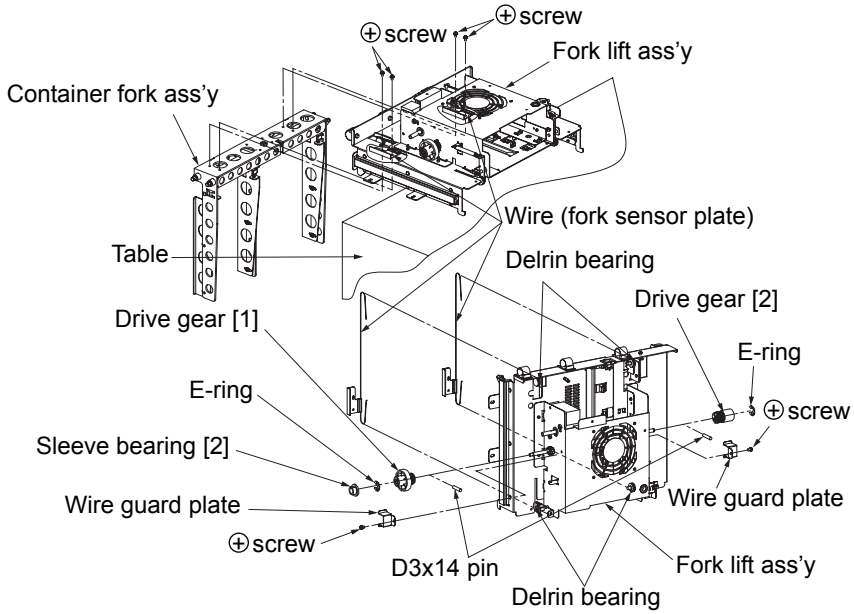


Fig. 6-32. Removal of the wire (fork sensor plate) U/L

[Assembling procedure]
1. Mount the two extension springs (see section 6.2.8).
2. Put the wire (fork sensor plate) through the hole of the fork lift ass'y as shown in Fig. 6-33.
3. Push the steel ball A of the wire (fork sensor plate) in the groove of the drive gear [1] securely. Wind the wire five turns as shown in Fig. 6-34. (Perform the same operation for the steel ball C and the drive gear [2] as shown in Fig. 6-35.)
4. Push the steel ball B of the wire (fork sensor plate) in the groove of the drive gear [1] securely. Wind the wire a half turn as shown in Fig. 6-34. (Perform the same operation for the steel ball D and the drive gear [2] as shown in Fig. 6-35.)
5. Mount the drive gears [1] and [2], two D3x14 pins, sleeve bearing [2], two retaining rings, wire guard plate [2] and plus screw [2].
6. Mount the two wires (fork sensor plate) to the four delrin bearings.
7. Perform the steps of disassembly in the reverse order.

[Note]
Be careful not to loosen the two wires (fork sensor plate) wound around the drive gears [1] and [2] during reassembly.

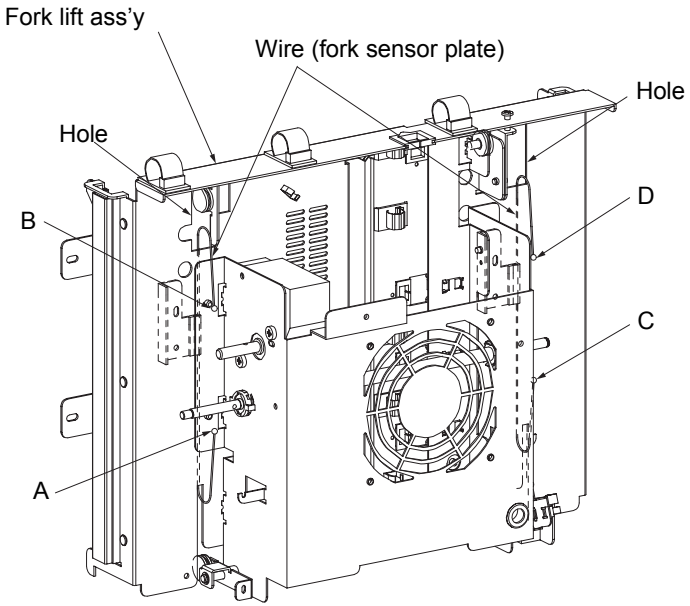


Fig. 6-33. Installation of the wire (fork sensor plate) U/L

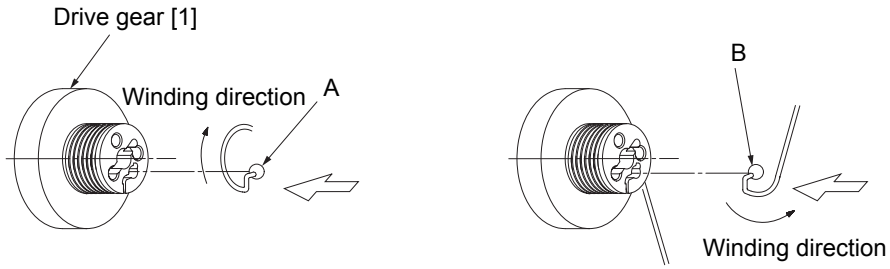


Fig. 6-34. Winding the wire (fork sensor plate) U/L around the drive gear [1]

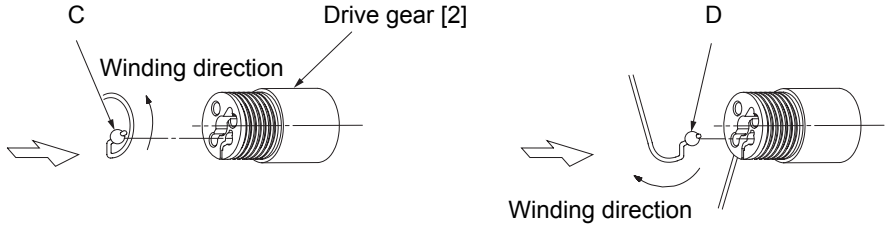


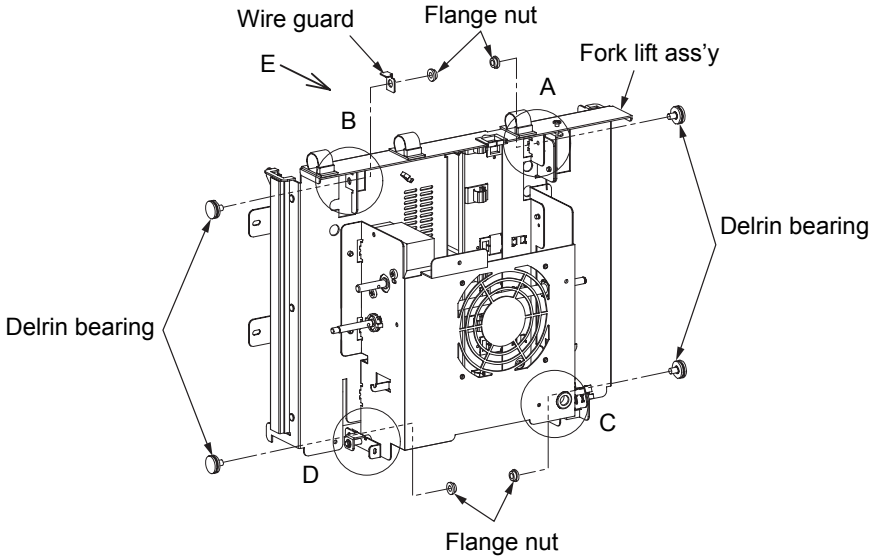
Fig. 6-35. Winding the wire (fork sensor plate) U/L around the drive gear [2]

6.2.9 Removal of Delrin Bearing (Wire Pulley) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner. Be careful not to drop the D3 x 16 pin inside the printer during maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the two wires (see section 6.2.8).
2. Remove the four two flange nuts and the four delrin bearings from the fork lift ass'y.



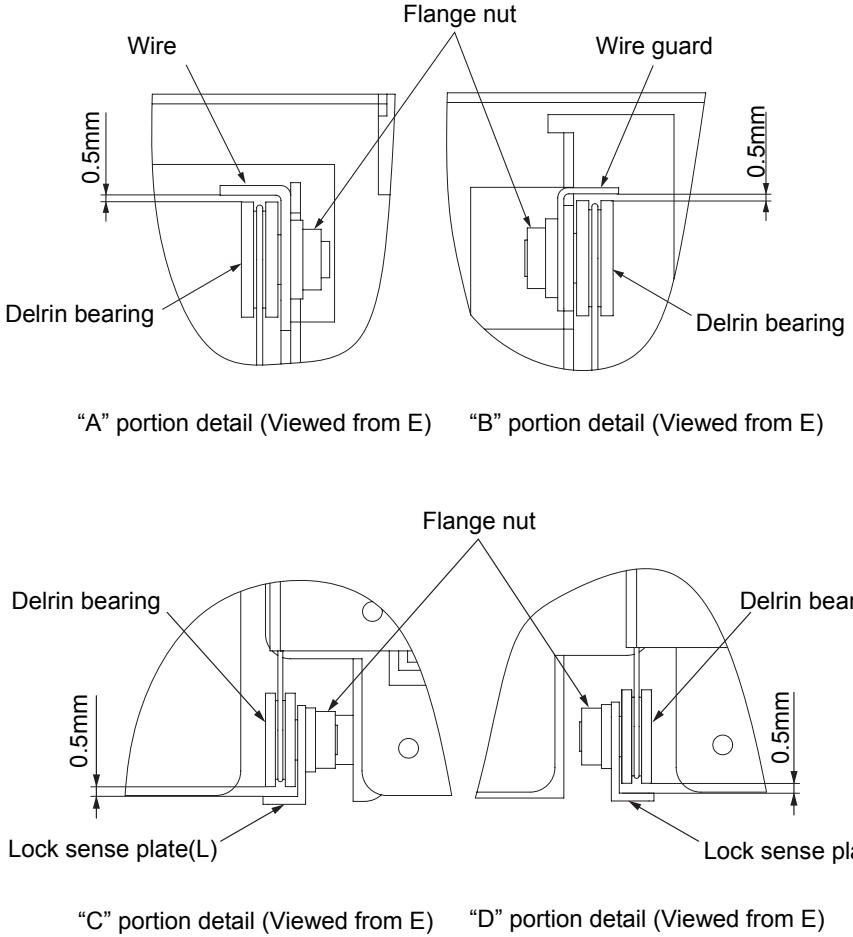


Fig. 6-36. Removal of the delrin bearing (wire pulley) U/L

[Assembling procedure]
1. Adjust the clearance between the delrin bearing and the wire guard and between the delrin bearing and the lock sense plates (L) (R) to 0.5 mm using a flange nut (A,B, C and D portions).
2. Perform the steps of disassembly in the reverse order.

6.2.10 Removal of Ball Bearing Housing and Ball Bearing U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner. Be careful not to drop the D3 x 14 pin and the D3 x 16 pin inside the printer during maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Disconnect the two wires (see section 6.2.8).
2. Turn the two ball bearing housings and remove the two ball bearings.

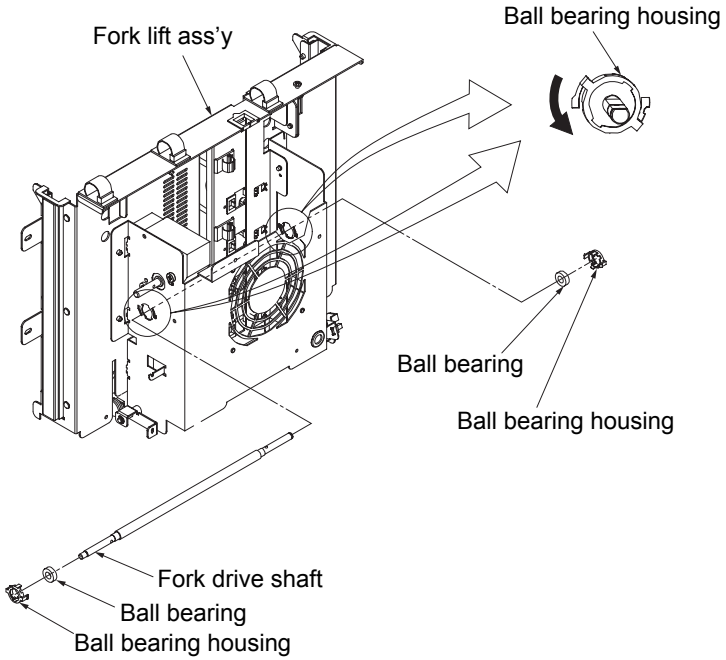


Fig. 6-37. Removal of the ball bearing housing and the ball bearing U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.2.11 Removal of Extension Spring U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner. Do not loosen the tensed wire during maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Keeping the two wires tensed, remove the two extension springs.

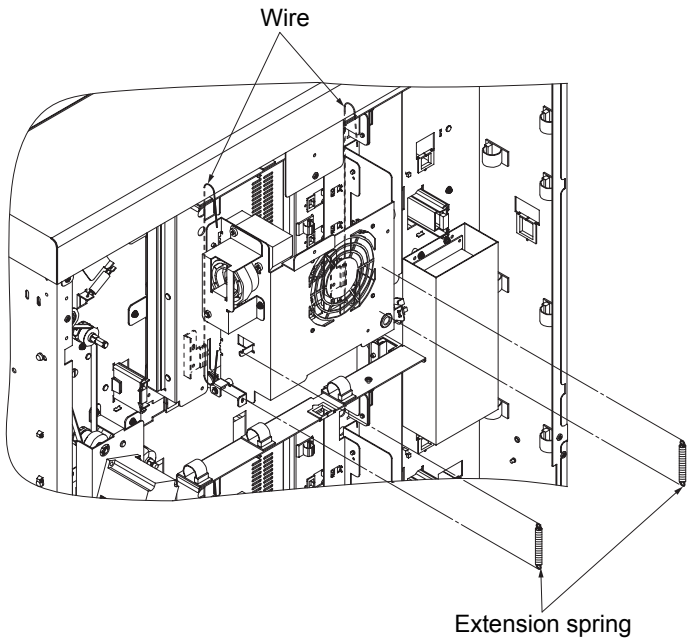


Fig. 6-38. Removal of the extension spring U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3 Removal of Paper Feeder Unit

6.3.1 Removal of Extension Spring [1]

6.3.1 (1) Removal of Extension Spring [1] (Upper)

WARNING: Turn off the power switch before maintenance.

Tools required: Tweezers and pliers

[Disassembling procedure]
1. Open the top cover 1 ass'y (see section 3.4.1).
2. Remove the three extension springs [1].

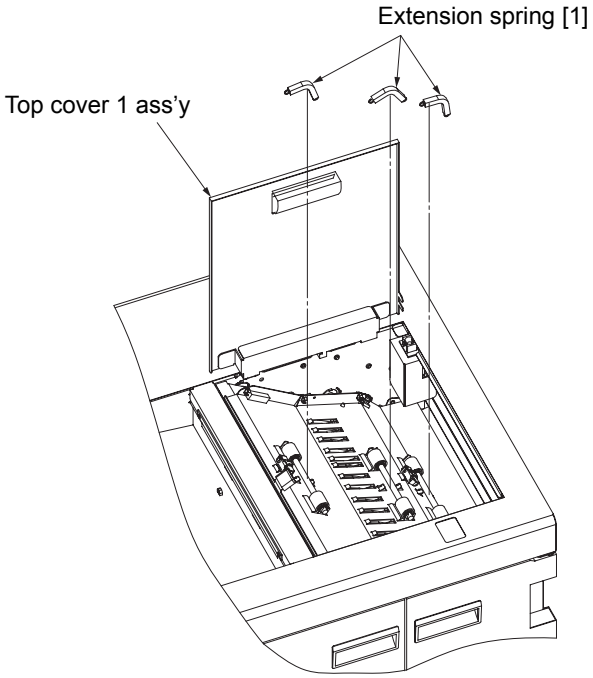


Fig. 6-39. Removal of the extension spring [1] (upper)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.1 (2) Removal of Extension Spring [1] (Lower)

WARNING: Turn off the power switch before maintenance.

Tools required: Tweezers and pliers

[Disassembling procedure]
1. Open the front cover (R) ass'y (see section 3.4.1).
2. Remove the three extension springs [1].

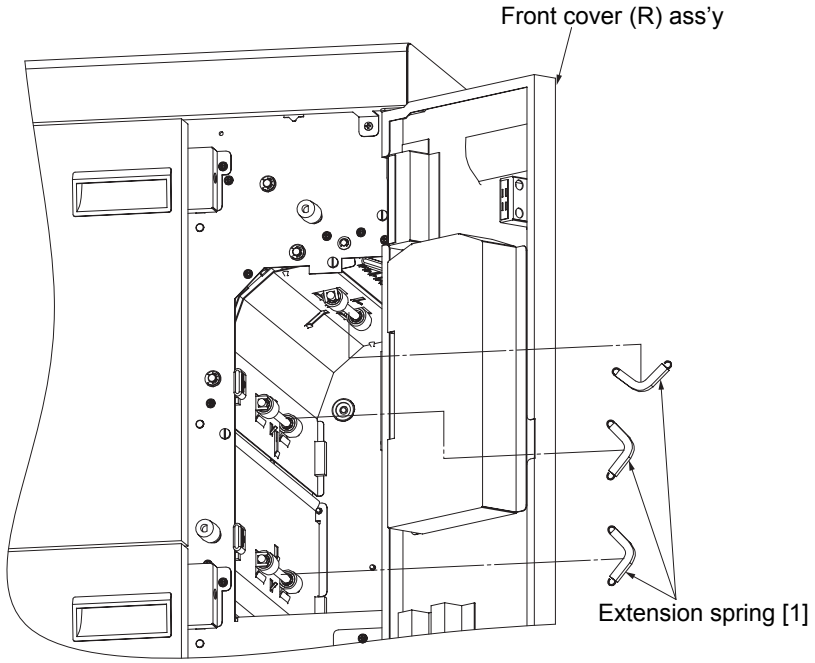


Fig. 6-40. Removal of the extension spring [1] (lower)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.2 Removal of Pressure Roller Ass'y

6.3.2 (1) Removal of Pressure Roller Ass'y (Upper)

WARNING: Turn off the power switch before maintenance.

Tools required: Tweezers and pliers

[Disassembling procedure]
1. Open the top cover 1 ass'y (see section 3.4.1).
2. Remove the three extension springs [1] (upper) (see section 6.3.1 (1)).
3. Remove the three pressure roller assemblies.

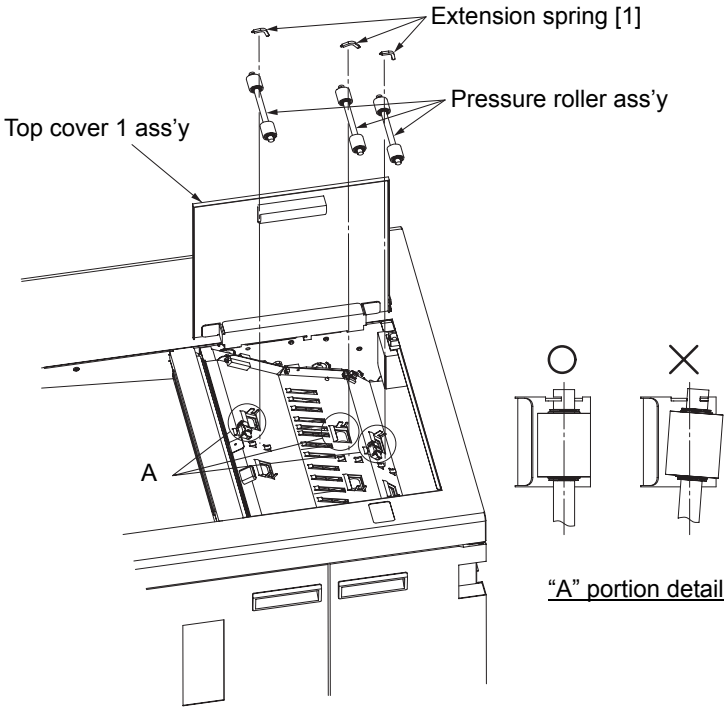


Fig. 6-41. Removal of the pressure roller ass'y (upper)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
See "A" portion detail for mounting the pressure roller ass'y.

6.3.2 (2) Removal of Pressure Roller Ass'y (Lower)

WARNING: Turn off the power switch before maintenance.

Tools required: Tweezers and pliers

[Disassembling procedure]
1. Open the front cover (R) ass'y (see section 3.4.1).
2. Remove the three extension springs [1] (lower) (see section 6.3.1 (2)).
3. Remove the three pressure roller assemblies.

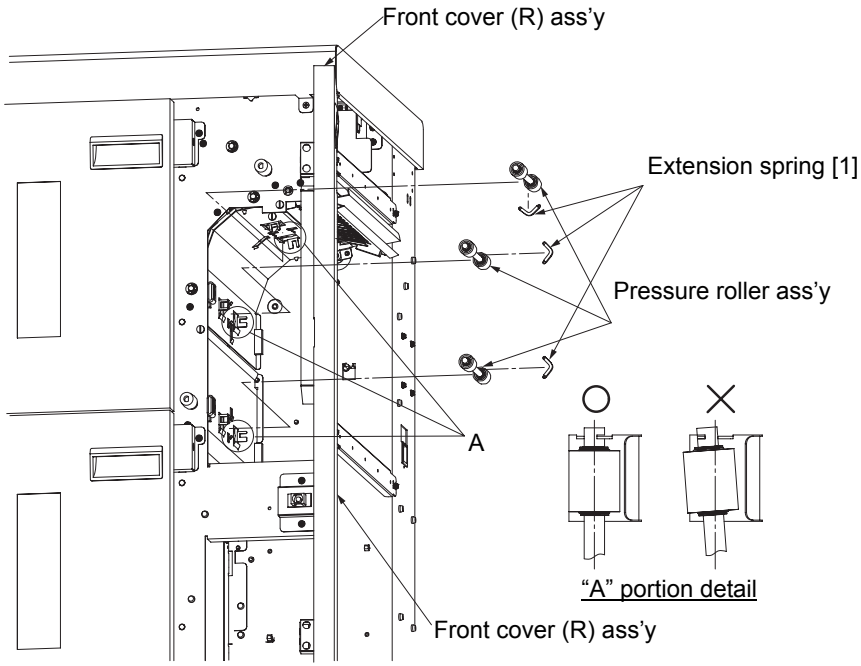


Fig. 6-42. Removal of the pressure roller ass'y (lower)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
See "A" portion detail for mounting the pressure roller ass'y.

6.3.3 Removal of Paper Path Sensor and Sensor Holder

6.3.3 (1) Removal of Paper Path Sensor (Upper) and Sensor Holder

WARNING: Turn off the power switch before maintenance.

Tools required: None

[Disassembling procedure]
1. Open the top cover 1 ass'y (see section 3.4.1).
2. Disconnect the two connectors.
3. Remove the two sensor holders and the two paper path sensors.

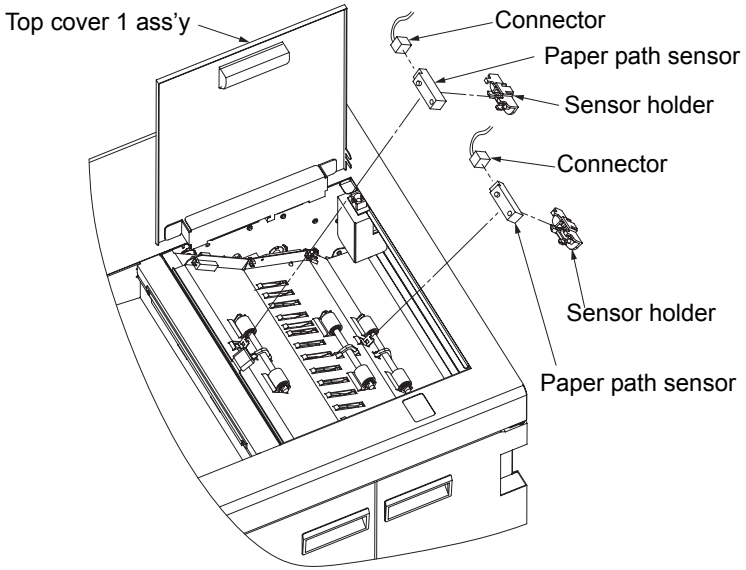


Fig. 6-43. Removal of the paper path sensor (upper) and the sensor holder

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that the inserting portion of the sensor holder is securely inserted.

6.3.3 (2) Removal of Paper Path Sensor (Lower) and Sensor Holder

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (R) ass'y, front cover (L) ass'y (both the upper and the lower parts) (see section 3.4.1).
2. Remove the basket (see section 6.8.15).
3. Remove the two plus screws and the inner cover (R).
4. Disconnect the connector.
5. Remove the sensor holder and the paper path sensor.

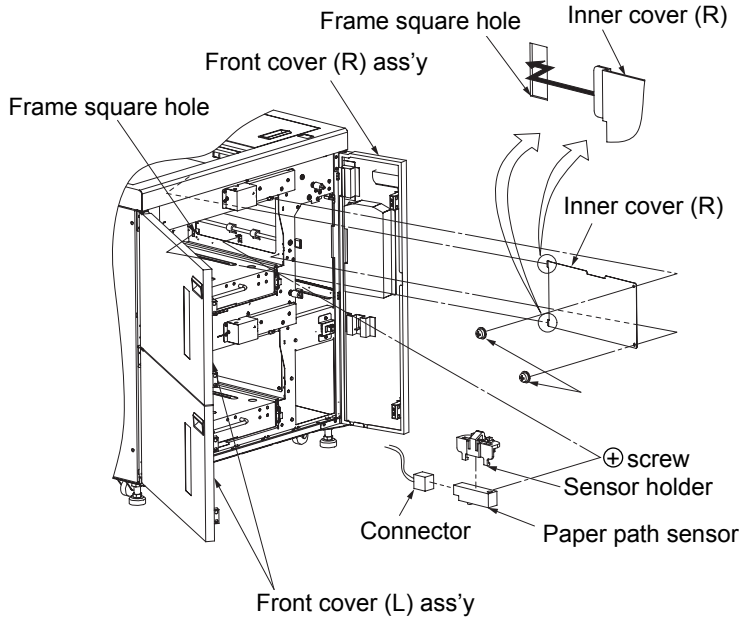


Fig. 6-44. Removal of the paper path sensor (lower) and the sensor holder

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that the inserting portion of the inner cover (R) is securely inserted in the frame square hole.

6.3.4 Removal of Feed Roller Knob

WARNING: Turn off the power switch before maintenance.

Tools required: Precision screwdriver

[Disassembling procedure]
1. Open the front cover (R) ass'y (see section 3.4.1).
2. Remove the two feed roller knobs.

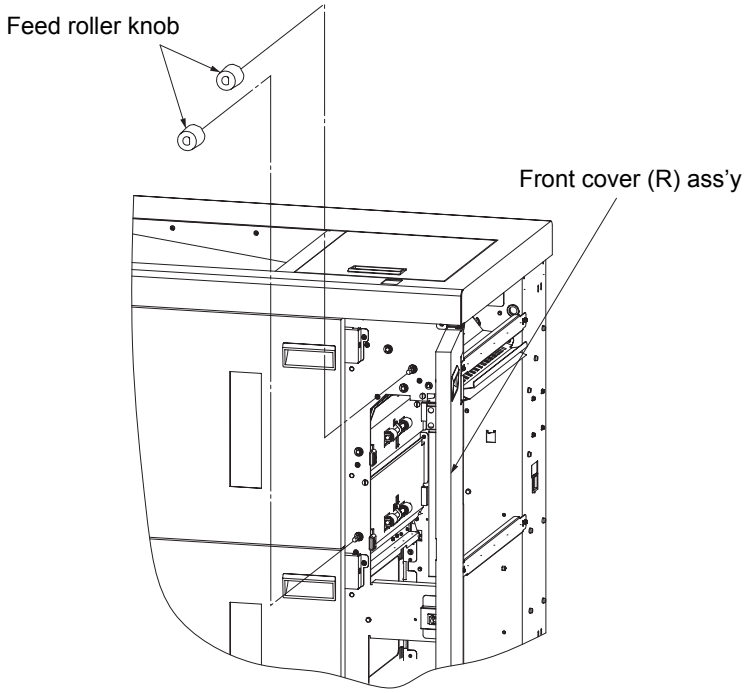


Fig. 6-45. Removal of the feed roller knob

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.5 Removal of PHD Knob

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Precision screwdriver

[Disassembling procedure]
1. Open the front cover (R) ass'y (see section 3.4.1).
2. Remove the three PHD knobs.
3. Open the top cover 1 ass'y (see section 3.4.1).
4. Remove the PHD knob.

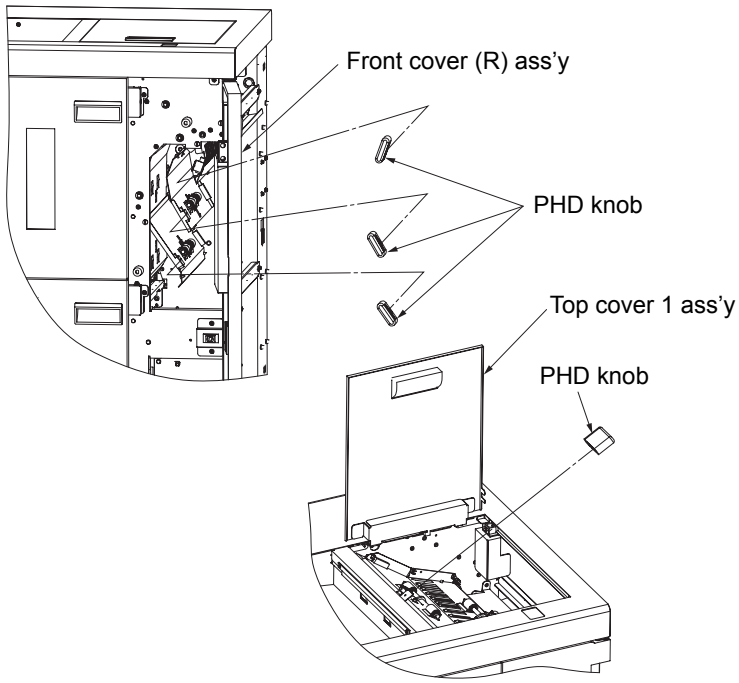


Fig. 6-46. Removal of the PHD knob

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.6 Removal of Sleeve Bearing [1]

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Open the front cover (R) ass'y, front cover (L) ass'y (both the upper and the lower parts) (see section 3.4.1).
2. Remove the rear cover ass'y and the T cover ass'y (see section 3.4.2).
3. Remove the two feed roller knobs (see section 6.3.4).
4. Remove the six E-rings and the six sleeve bearings [1].

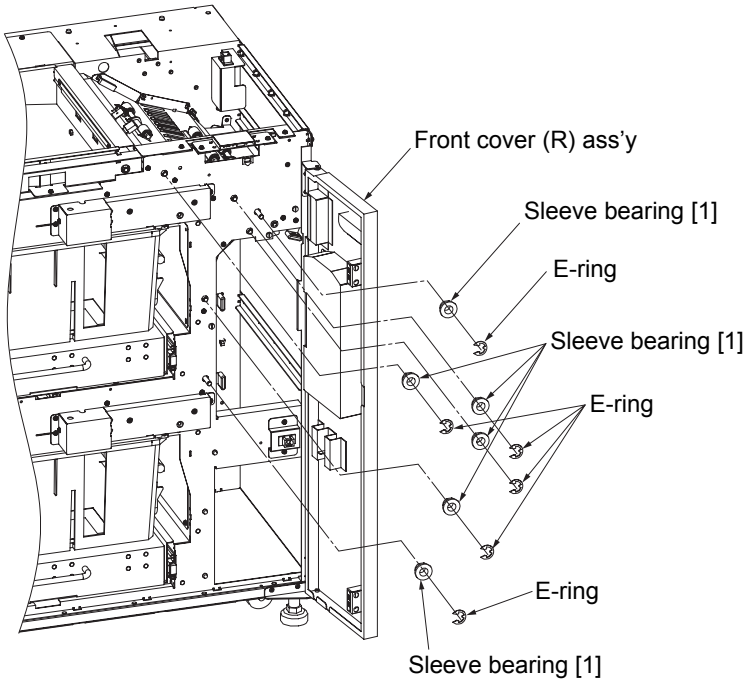


Fig. 6-47. Removal of the sleeve bearing [1]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.7 Removal of Feed Motor U and SB Motor Gear

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Disconnect the connector.
3. Remove the two plus screws and the motor holder U ass'y.
4. Remove the two plus screws, SB motor gear, motor holder U and feed motor U.

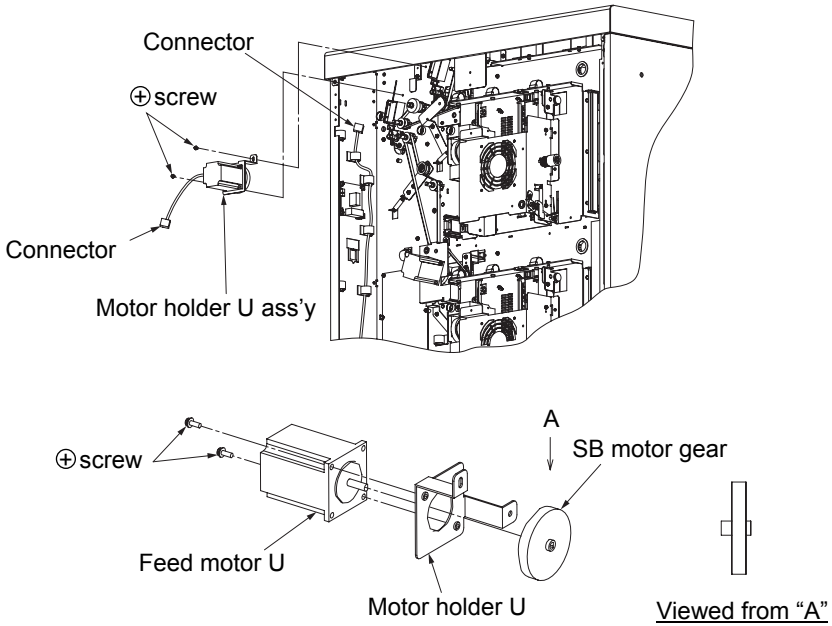


Fig. 6-48. Removal of the feed motor U and the SB motor gear

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.8 Removal of Feed Motor L and SB Motor Gear

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Disconnect the connector.
3. Remove the two plus screws and the motor holder L ass'y.
4. Remove the two plus screws, SB motor gear, motor holder L and feed motor L.

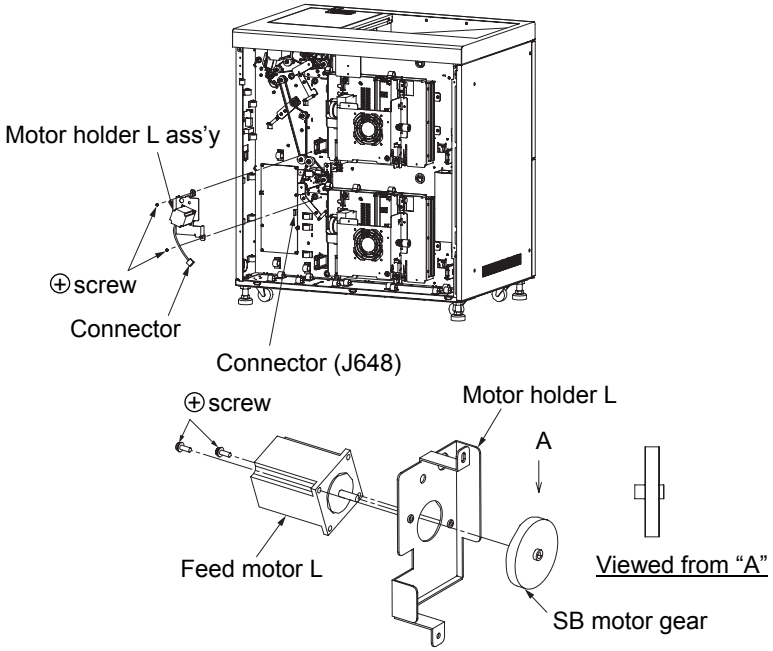


Fig. 6-49. Removal of the feed motor L and the SB motor gear

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.9 Removal of Gear Stopper

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver and precision screwdriver

[Disassembling procedure]
1. Remove the motor holder L ass'y (see section 6.3.8).
2. Remove the six gear stoppers.

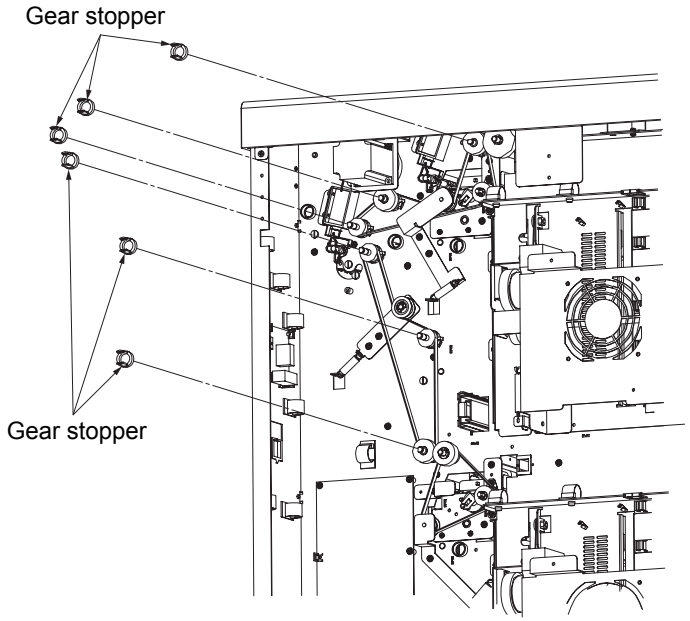


Fig. 6-50. Removal of the gear stopper

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that the inserting portion of the gear stopper is securely inserted.

6.3.10 Removal of Gear (A)

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the motor holder U ass'y (see section 6.3.7).
2. Remove the motor holder L ass'y (see section 6.3.8).
3. Remove the three gear stoppers and the three gears (A).

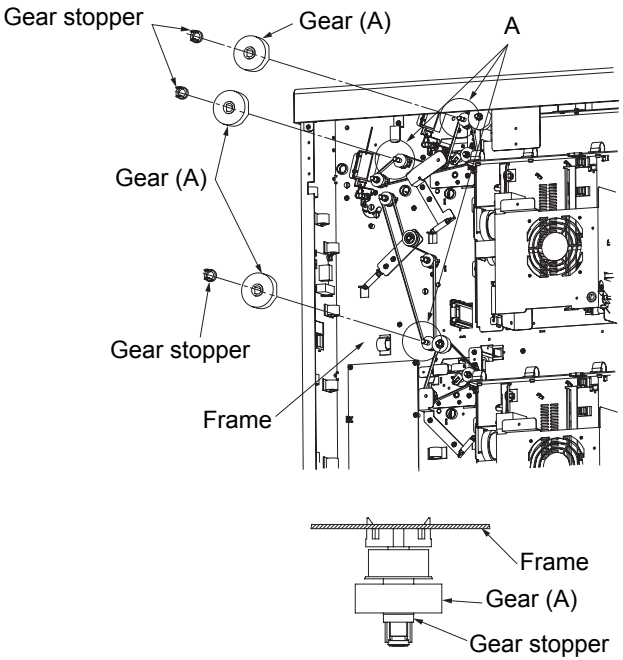


Fig. 6-51. Removal of the gear (A)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.11 Removal of Extension Spring [2]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the motor holder U ass'y (see section 6.3.7).
2. Remove the motor holder L ass'y (see section 6.3.8).
3. Remove the six plus screws, three extension springs [2] and tension roller assemblies [1], [2] and [3].

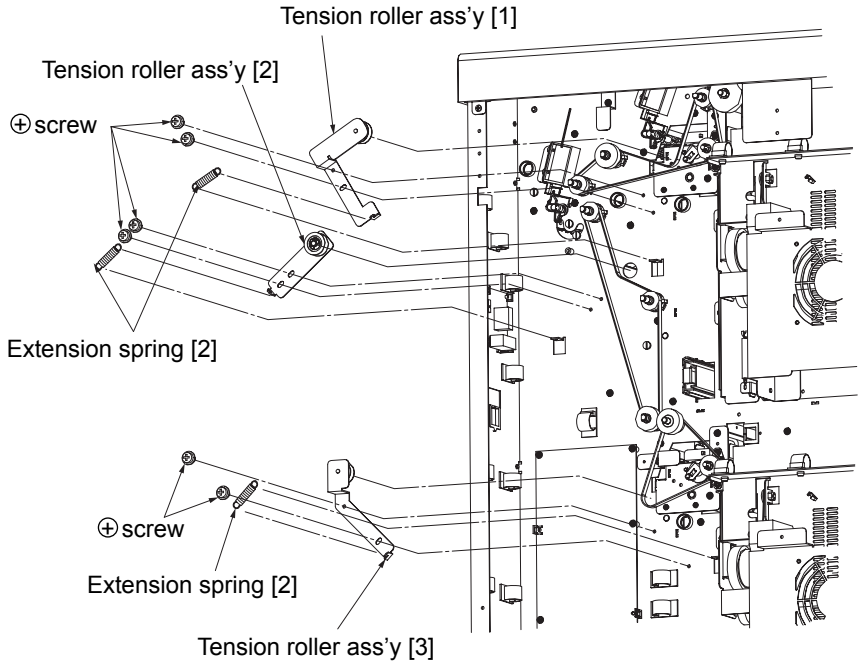


Fig. 6-52. Removal of the extension spring [2]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.12 Removal of Tension Roller B and Ball Bearing

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the motor holder U ass'y (see section 6.3.7).
2. Remove the motor holder L ass'y (see section 6.3.8).
3. Remove the tension roller assemblies [1], [2] and [3] (see section 6.3.11).
4. Remove the three E-rings, three tension rollers B and the six ball bearings.

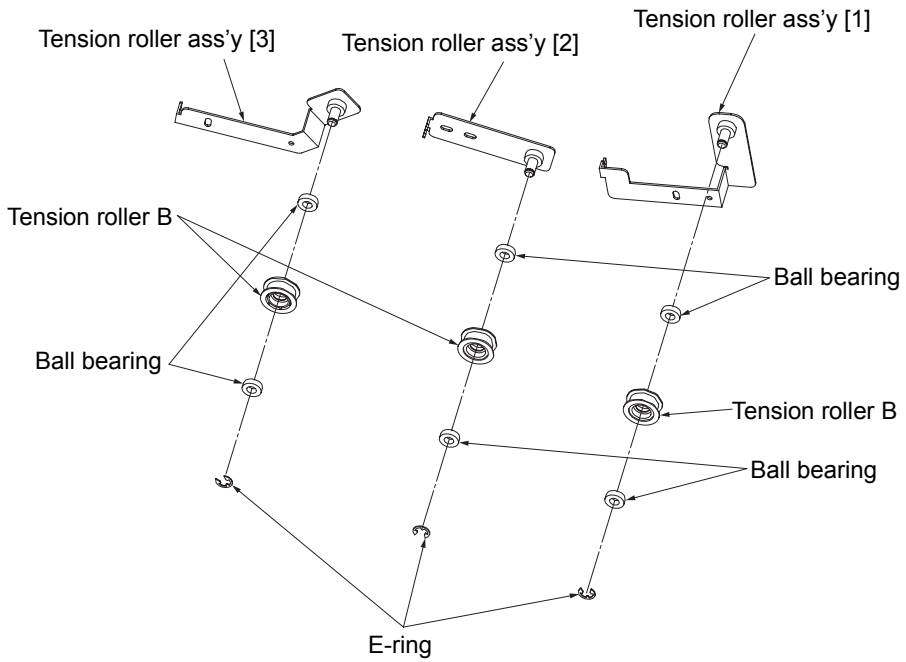


Fig. 6-53. Removal of the tension roller B and the ball bearing

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.13 Removal of Timing Belts [1], [2] and [3]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the tension roller assemblies [1], [2] and [3] (see section 6.3.11).
2. Remove the gear stopper, gear (A) and pulley (A) (see section 6.3.14).
3. Remove the timing belts [1], [2] and [3].

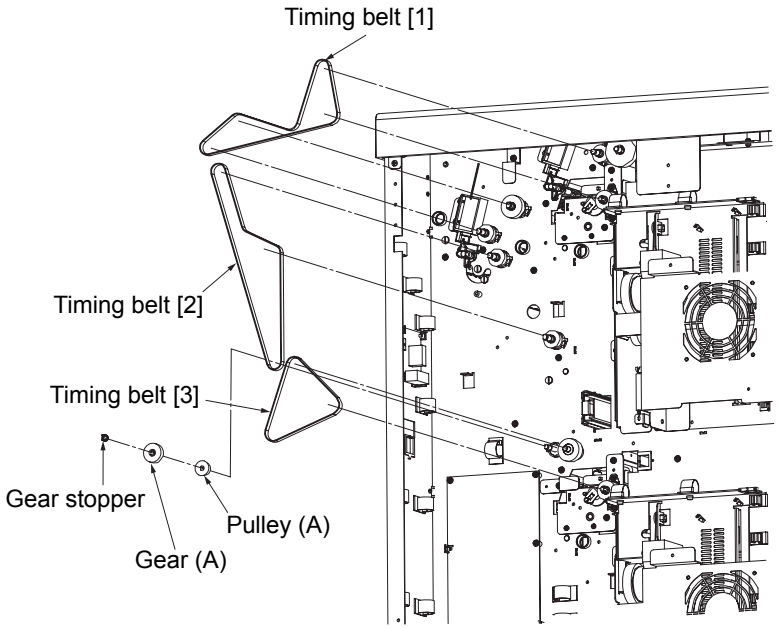


Fig. 6-54. Removal of the timing belts [1], [2] and [3]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.14 Removal of Pulley (A)

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the timing belts [1] and [2] (see section 6.3.13).
2. Remove the six gear stoppers, three gears (A) and six pulleys (A).

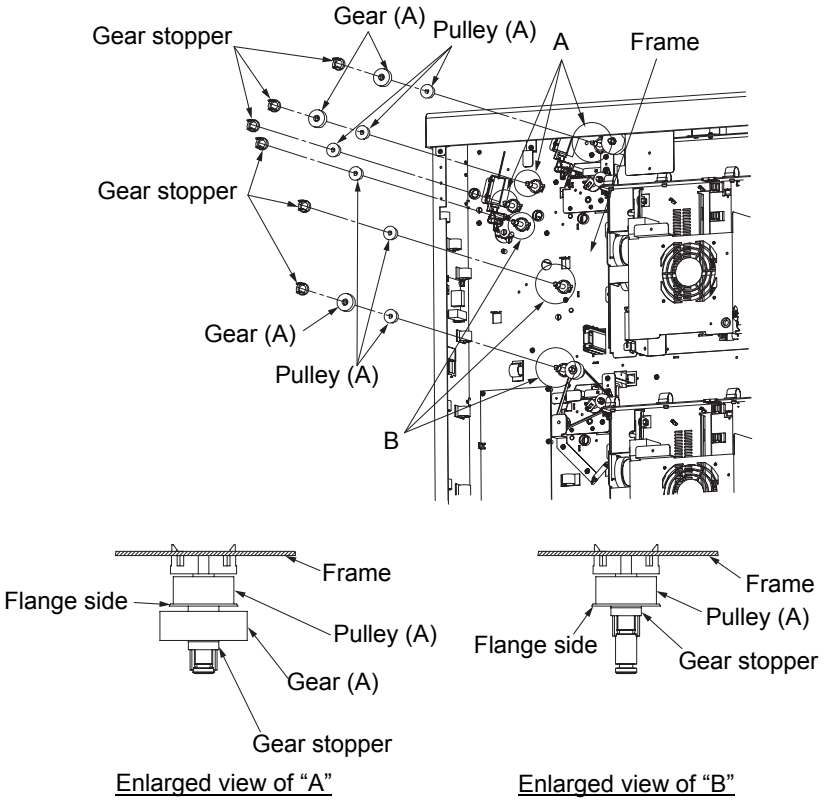


Fig. 6-55. Removal of the pulley (A)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.15 Removal of Idler Gear Pulley and Ball Bearing

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the timing belt [3] (see section 6.3.13).
2. Remove the E-ring, idler gear pulley and two ball bearings.

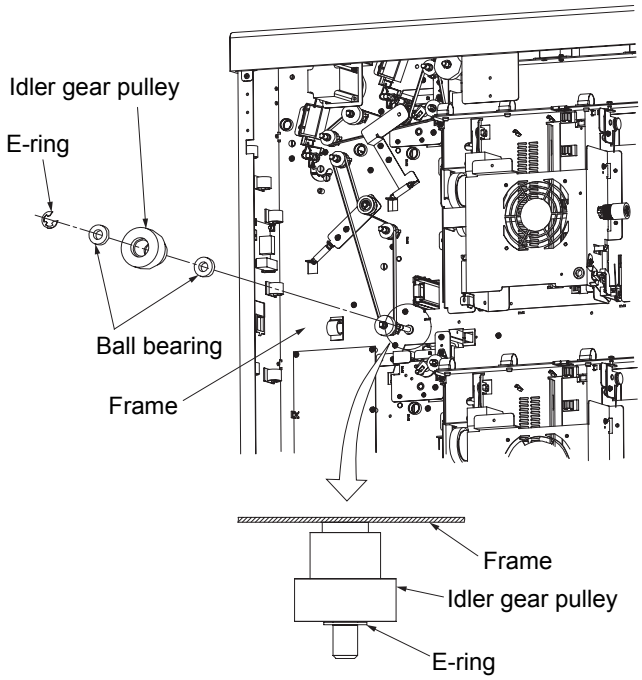


Fig. 6-56. Removal of the idler gear pulley and the ball bearing

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.16. Removal of Idler Gear

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (R) ass'y and the front cover (L) ass'y (upper) (see section 3.4.1).
2. Remove the rear cover ass'y and the T cover ass'y (see section 3.4.2).
3. Remove the top cover switch (see section 6.8.4).
4. Disconnect the two connectors.
5. Remove the four plus screws, decurler ass'y and U paper guide C ass'y.
6. Remove the three idler gears.

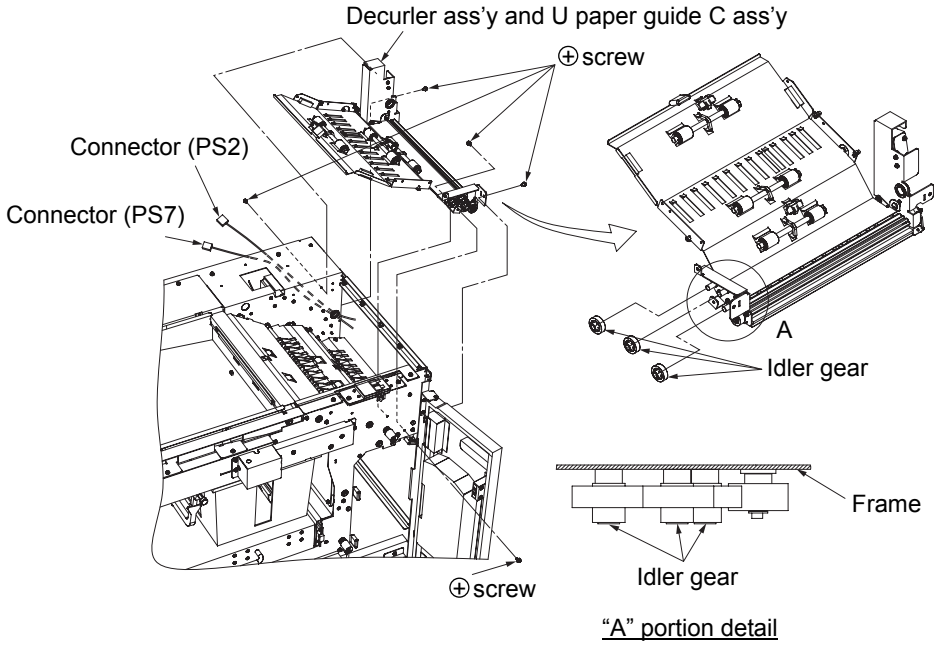


Fig. 6-57 Removal of the idler gear

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.17 Removal of Drive Roller Gear

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the decurler ass'y and the U paper guide C ass'y (see section 6.3.16).
2. Remove the E-ring and the drive roller gear.

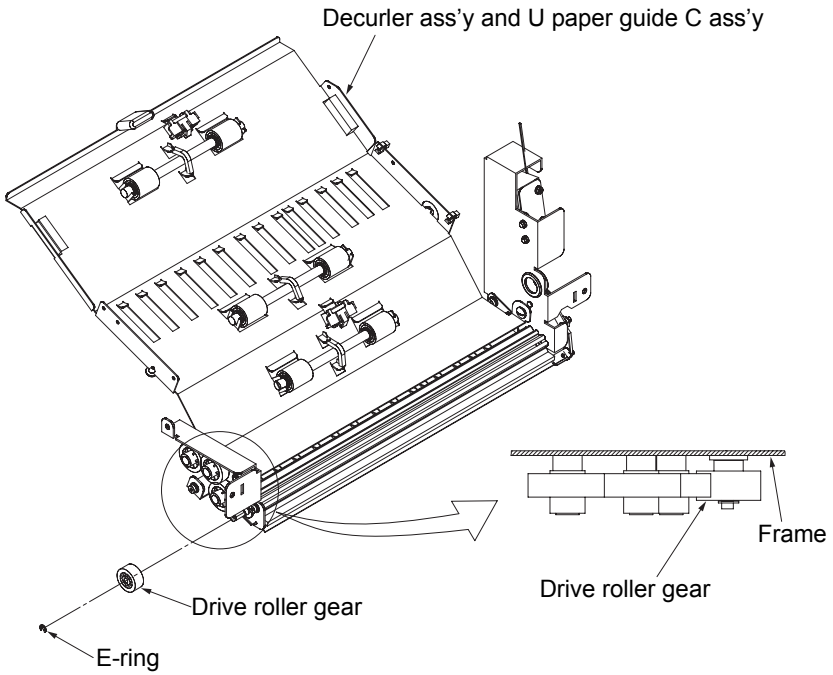


Fig. 6-58 Removal of the drive roller gear

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.18 Removal of Extension Spring [3]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver and pliers

[Disassembling procedure]
1. Remove the decurler ass'y and the U paper guide C ass'y (see section 6.3.16).
2. Remove the extension spring [3].

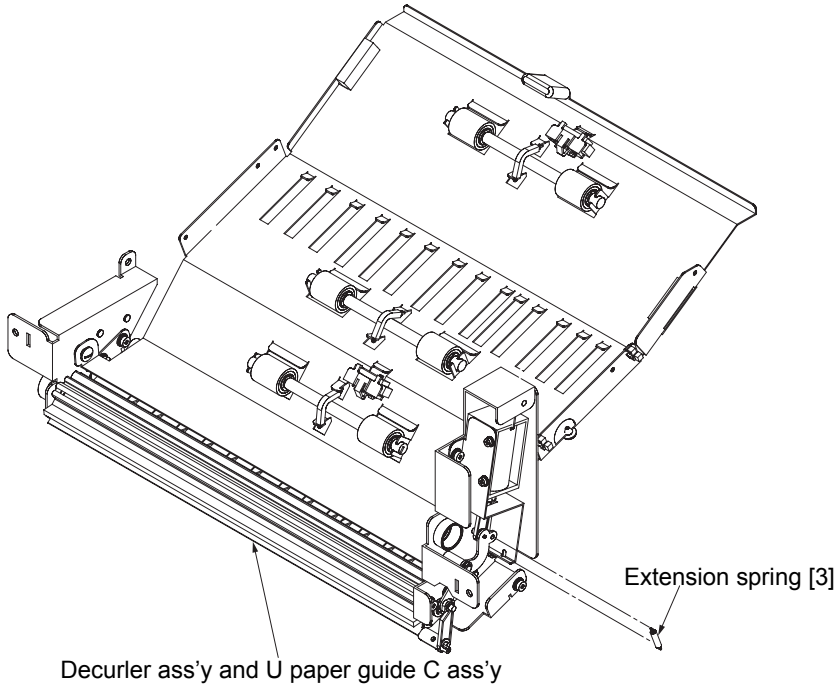


Fig. 6-59 Removal of the extension spring [3]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.19 Removal of Solenoid A [1]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the decurler ass'y and the U paper guide C ass'y (see section 6.3.16).
2. Remove the two plus screws, two E-rings and solenoid ass'y.
3. Remove the extension spring [3], two plus screws and solenoid A [1].

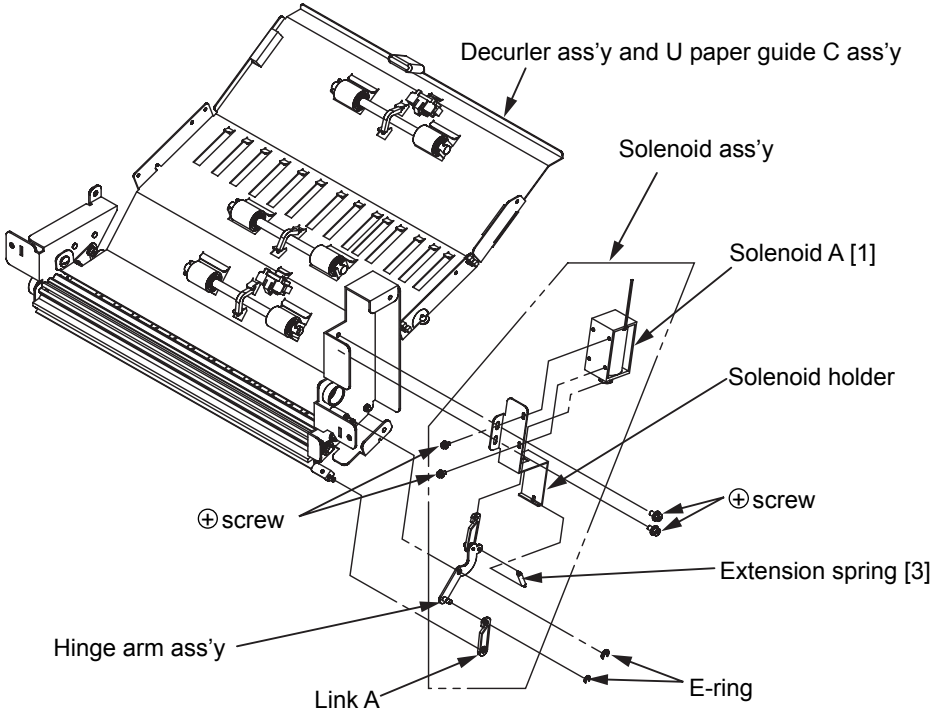


Fig. 6-60 Removal of the solenoid A [1]

[Assembling procedure]

1. Temporarily secure the solenoid A [1] to the solenoid holder with two plus screws.
2. Secure the solenoid A [1] with two plus screws so that the clearance between the plunger and the solenoid holder becomes as shown in Fig. 6-61 when contacting the plunger to the solenoid A [1] body.
3. Mount the extension spring [3] and two E-rings and temporarily secure the solenoid ass'y to the rear plate with two plus screws.
4. Contact the plunger to the solenoid holder. When the tip of the gate ass'y touches the lower paper guide, secure the solenoid ass'y with two plus screws.
5. Check that the clearance between the gate ass'y and the tip of the lower paper guide becomes as shown in Fig. 6-62 when contacting the plunger to the solenoid A [1] body.
6. Perform the steps of disassembly in the reverse order.

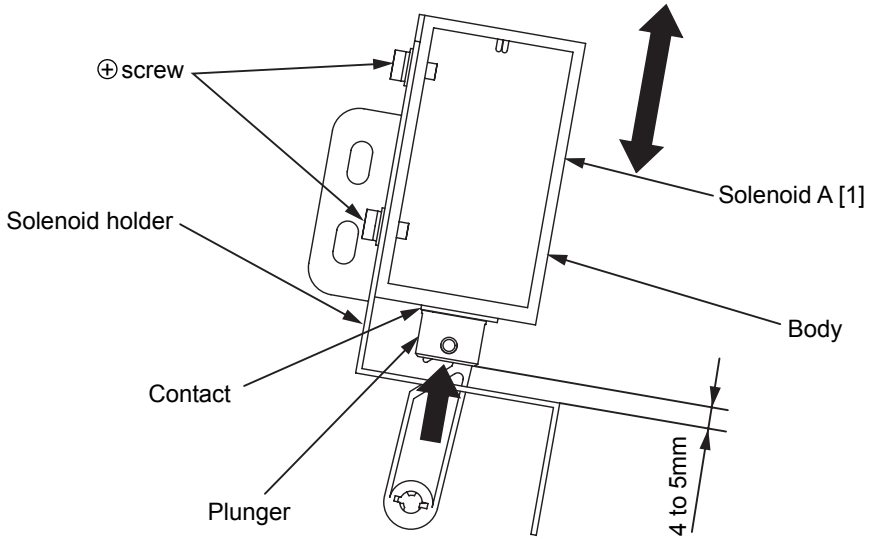


Fig. 6-61. Positioning the solenoid A [1]

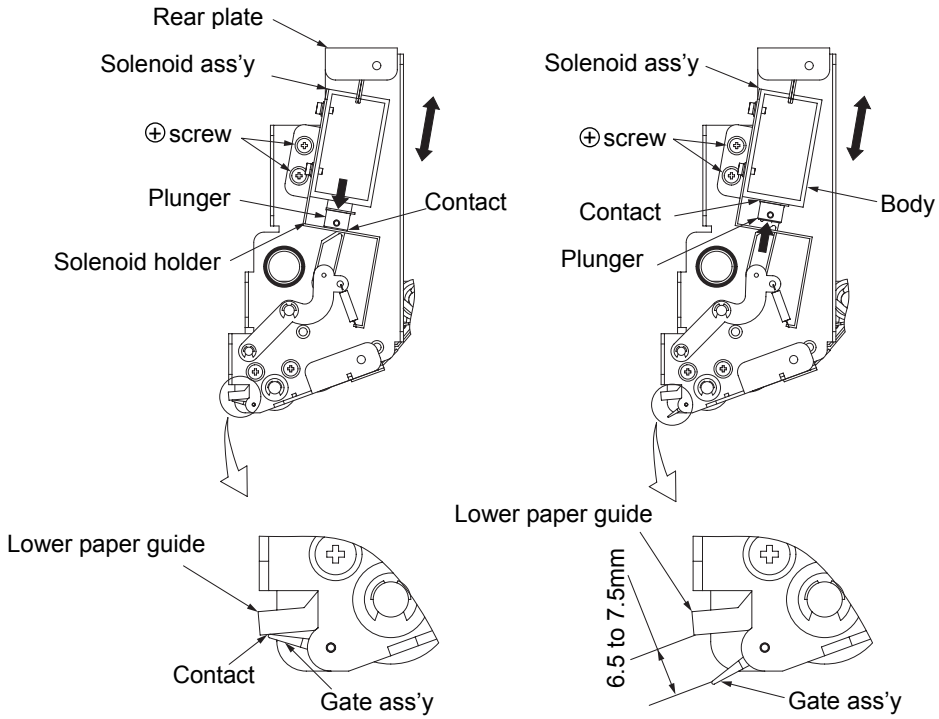


Fig. 6-62. Positioning the solenoid ass'y

6.3.20 Removal of Sleeve Bearing [2]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the decurler ass'y and the U paper guide C ass'y (see section 6.3.16).
2. Remove the two E-rings, drive roller gear and two sleeve bearings [2].

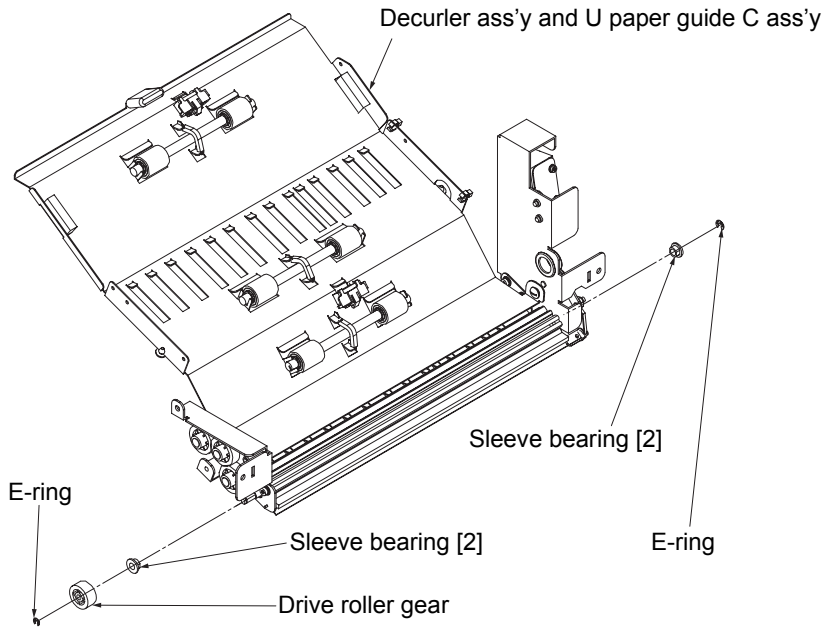


Fig. 6-63. Removal of the sleeve bearing [2]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.21 Removal of Rubber Roller Shaft

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the decurler ass'y and the U paper guide C ass'y (see section 6.3.16).
2. Remove the two sleeve bearings [2] (see section 6.3.20).
3. Remove the rubber roller shaft.

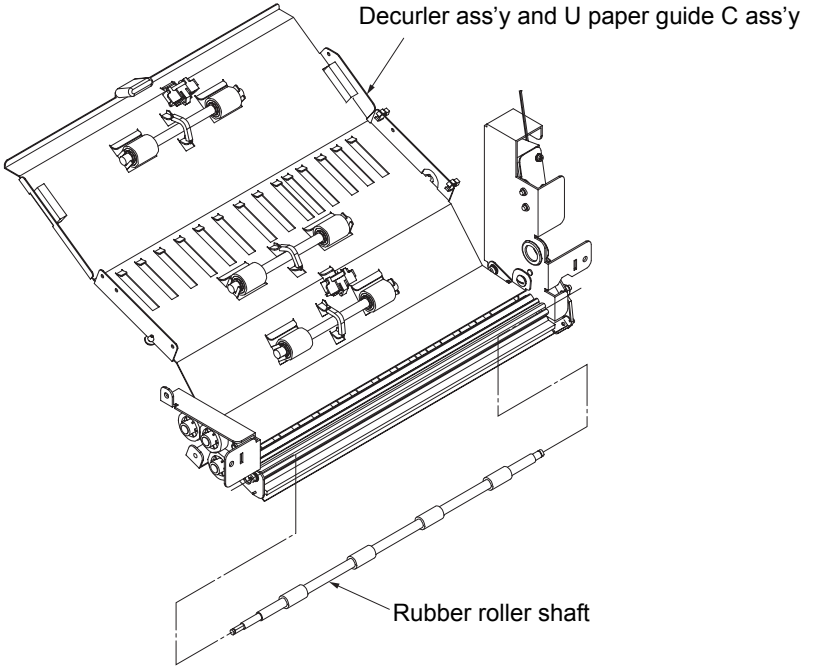


Fig. 6-64. Removal of the rubber roller shaft

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.22 Removal of Feed Roller CS Ass'y [1] (upper)

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the two sleeve bearings [1] (see section 6.3.6).
2. Remove the decurler ass'y and the U paper guide C ass'y (see section 6.3.16).
3. Remove the timing belt [1] (see section 6.3.13).
4. Remove the two pulleys A (see section 6.3.14).
5. Remove the eight plus screws then remove the L paper guide D and the L paper guide C.
6. Turn the ball bearing housing and remove the two feed roller CS assemblies [1] (upper).

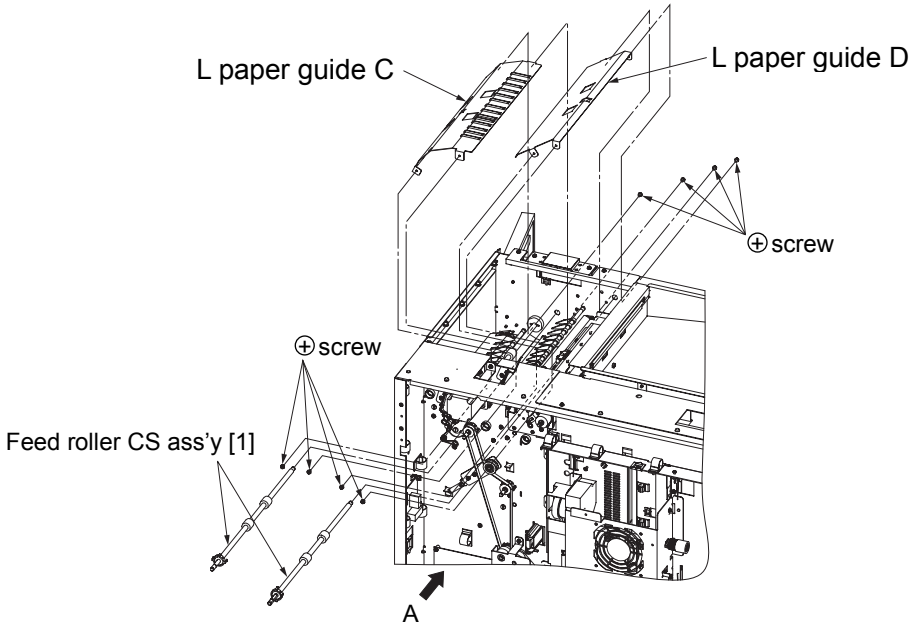


Fig. 6-65. Removal of the feed roller CS ass'y [1] (upper)

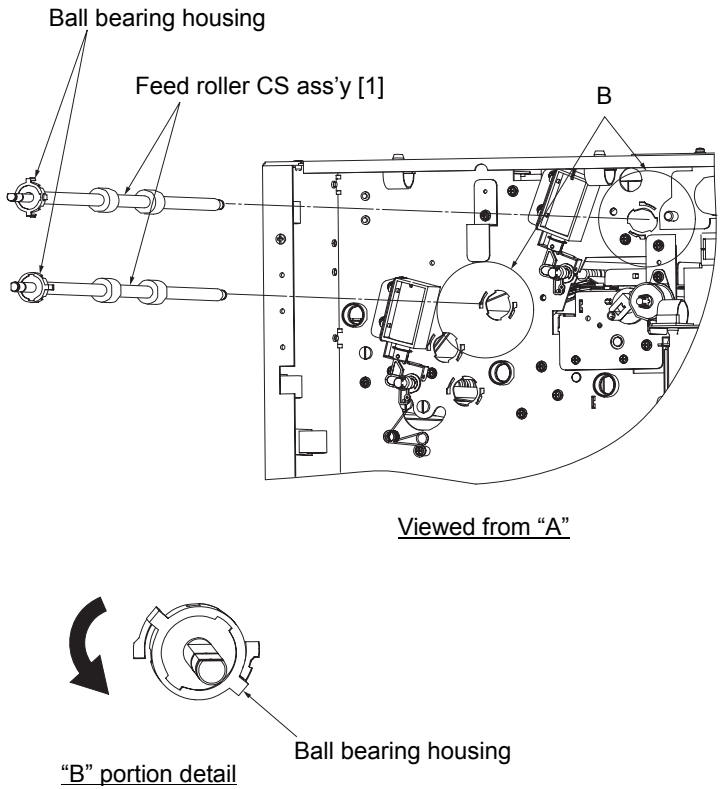


Fig. 6-66. Removal of the feed roller CS ass'y [1] (upper)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.23 Removal of Feed Roller CS Ass'y [2] and Drive Roller Gear

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove a feed roller knob (see section 6.3.4).
2. Remove the sleeve bearing [1] (see section 6.3.6).
3. Remove the decurler ass'y and the U paper guide C ass'y (see section 6.3.16).
4. Remove the timing belt [1] (see section 6.3.13).
5. Remove the pulley A (see section 6.3.14).
6. Remove the L paper guide C (see section 6.3.22).
7. Turn the ball bearing housing and remove the feed roller CS assemblie [2] and the drive roller gear.

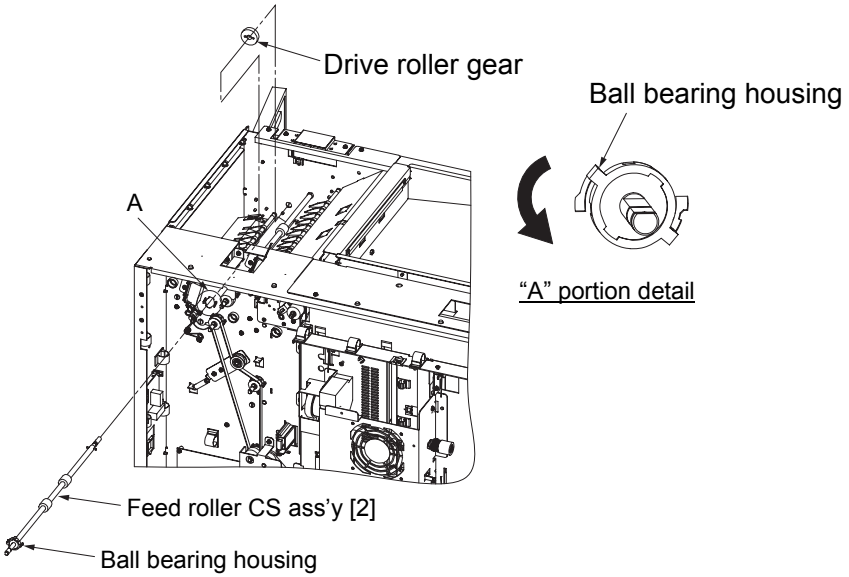


Fig. 6-67. Removal of the feed roller CS ass'y [2] and the drive roller gear

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.24 Removal of Feed Roller CS Assemblies [1] (lower side) and [3]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the feed roller knobs (1) (see section 6.3.4).
2. Remove the three sleeve bearings [1] (see section 6.3.6).
3. Remove the timing belts [2] (see section 6.3.13).
4. Remove the three pulleys (A) (see section 6.3.14).
5. Remove the L paper guide B2 ass'y, B1 ass'y, A ass'y and U paper guide B ass'y (see section 6.8.16 (2)).
6. Turn the ball bearing housing and remove the two feed roller CS assemblies [1] (lower side) and [3].

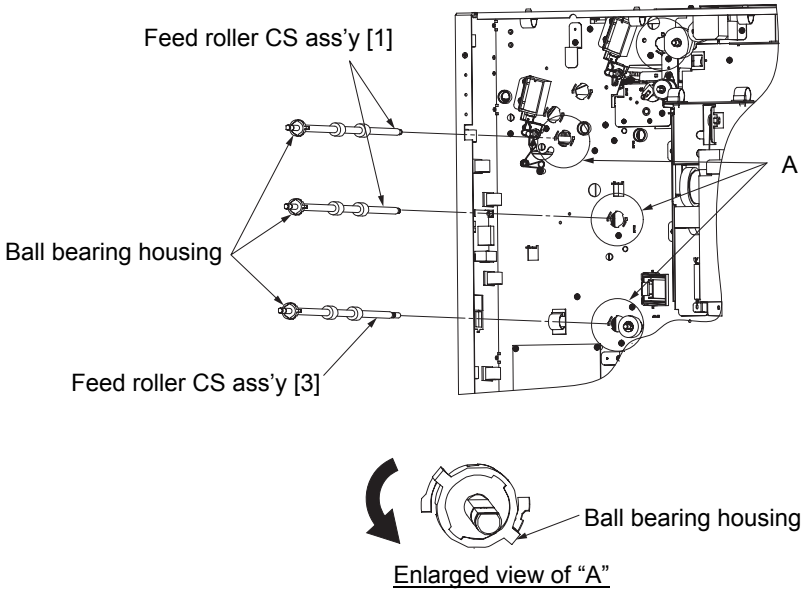


Fig. 6-68. Removal of the feed roller CS assemblies [1] (lower side) and [3]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.25 Removal of Solenoid A [2]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the timing belts [1] and [2] (see section 6.3.13).
2. Disconnect the two connectors.
3. Remove the four plus screws and the two solenoid assemblies.
4. Remove the four plus screws, two solenoid holders and two solenoids A [2].

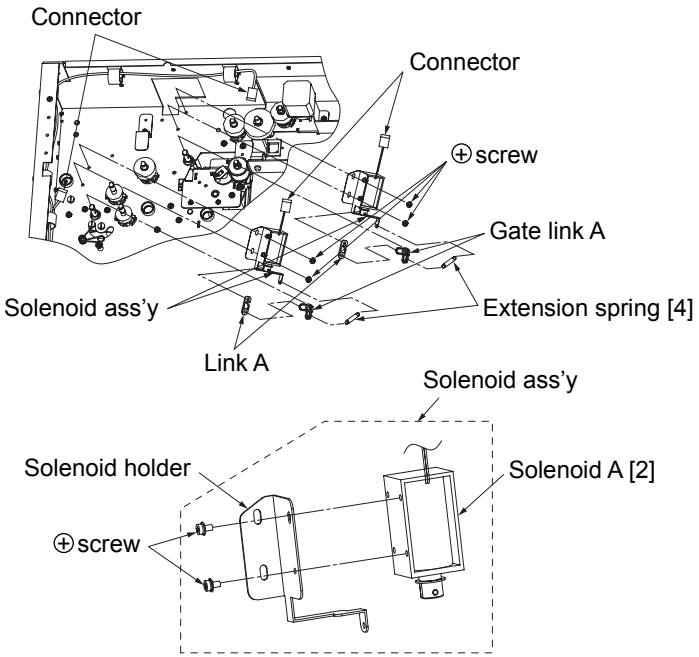


Fig. 6-69. Removal of the solenoid A [2]

[Assembling procedure]
1. Perform the steps of disassembly in the reverse order.
2. Adjust the position of the solenoid ass'y so that the clearance between the U paper guide C/U paper guide A and the SM gate ass'y becomes as follows when the E-ring is contacted with the frame by pushing the plunger toward the frame, then secure the solenoid ass'y with two plus screws (2 places).

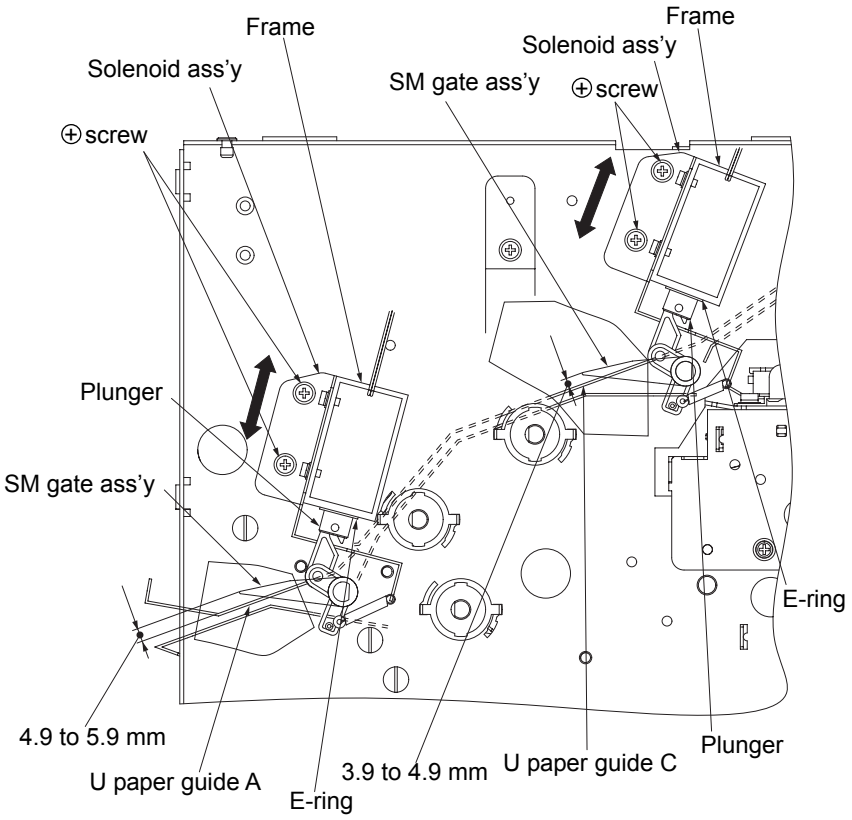


Fig. 6-70. Installation of the solenoid A [2]

6.3.26 Removal of Extension Spring [4]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the timing belts [1] and [2] (see section 6.3.13).
2. Disconnect the two connectors.
3. Remove the four plus screws and the two solenoid assemblies (see section 6.3.25).
4. Remove the two extension springs [4].

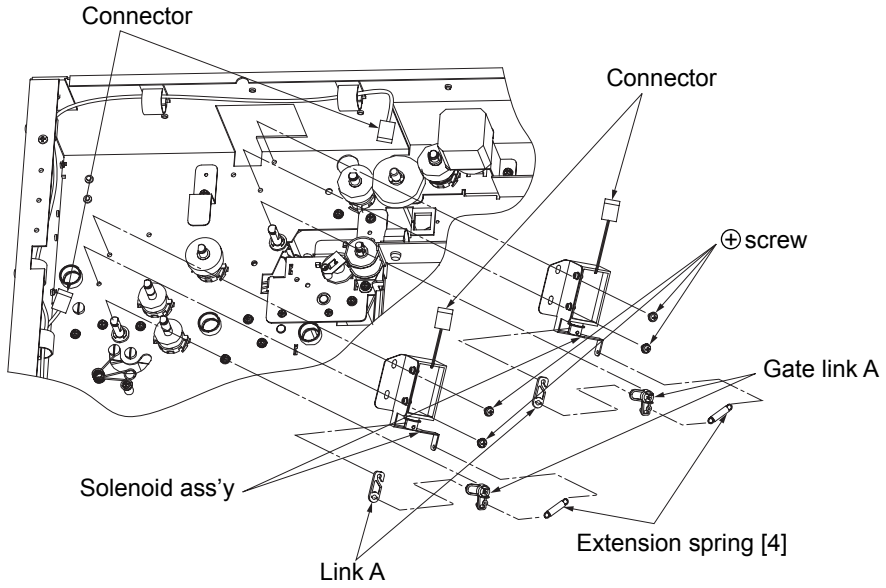


Fig. 6-71. Removal of the extension spring [4]

[Assembling procedure]
1. Perform the steps of disassembly in the reverse order.
2. Adjust the position of the solenoid ass'y before securing (see section 6.3.25).

6.3.27 Removal of Sleeve Bearing [3]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the door lock ass'y (upper) (see section 6.8.10).
2. Remove the two E-rings and two sleeve bearings [2] (front side).
3. Remove the solenoid ass'y and the gate link A (see section 6.3.25).
4. Remove the two E-rings and two sleeve bearings [3] (rear side).

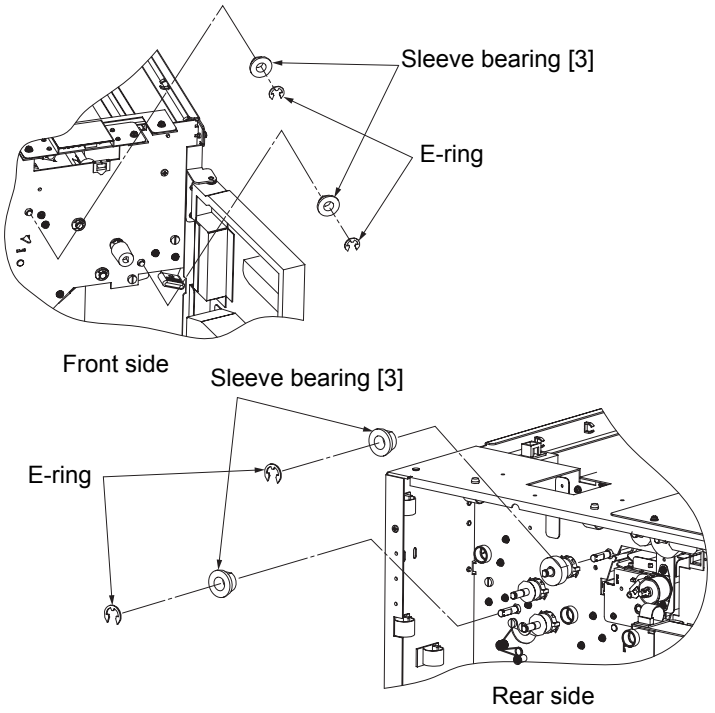


Fig. 6-72. Removal of the sleeve bearing [3]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.3.28 Removal of SM Gate Ass'y

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the four sleeve bearings [3] (see section 6.3.27).
2. Open the U paper guide C ass'y in the arrow "A" direction and remove the SM gate ass'y.
3. Open the L paper guide A ass'y in the arrow "B" direction and remove the SM gate ass'y.

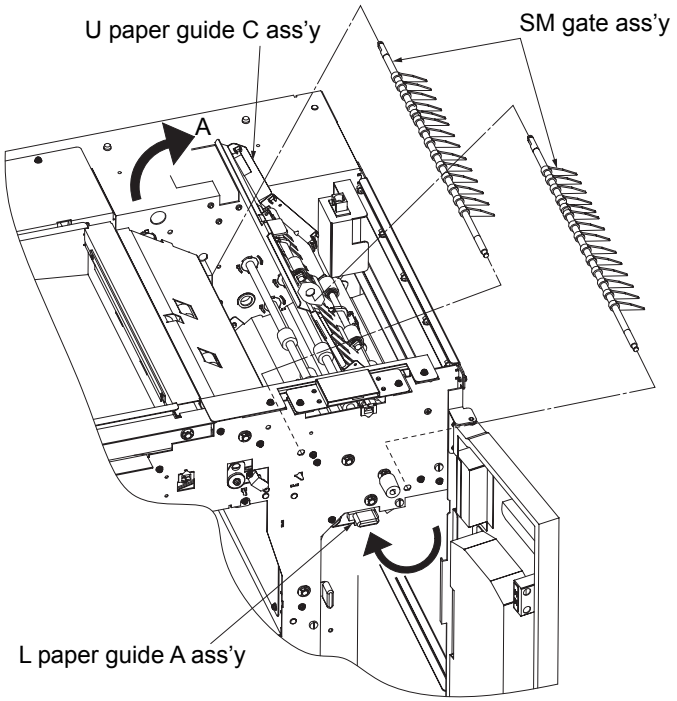


Fig. 6-73. Removal of the SM gate ass'y

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.4 Removal of Offset Unit

6.4.1 Removal of Offset Ass'y U/L

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Disconnect the four connectors from the offset ass'y U/L.
3. Remove the tension roller assemblies [1] and [3] (see section 6.3.11).
4. Remove the timing belts [1] and [3] (see section 6.3.13).
5. Remove the gear (A) (see section 6.3.10).
6. Remove the idler gear A (see section 6.5.4).
7. Remove the plus screw and the motor gear bracket.
8. Remove the six plus screws and the offset ass'y U/L.

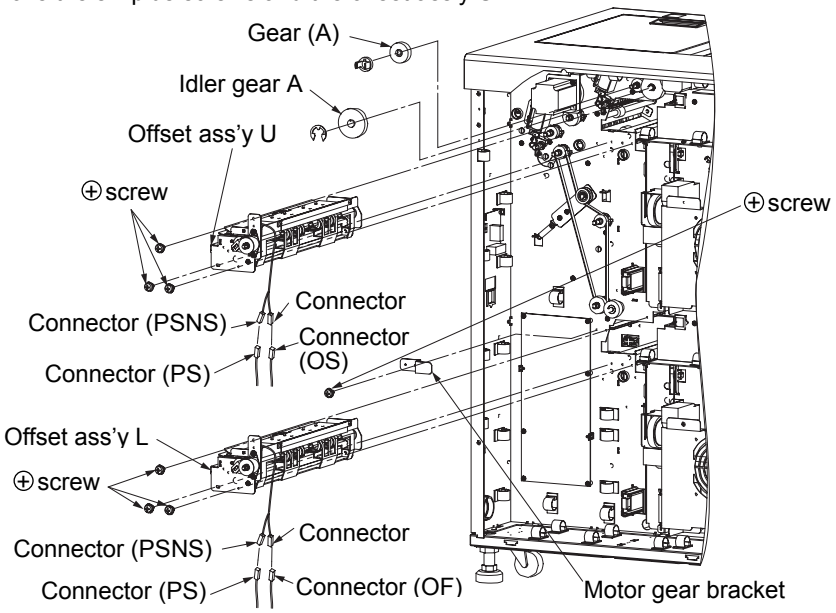


Fig. 6-74. Removal of the offset ass'y U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.4.2 Removal of Gear Stopper U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver and precision screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Remove the gear stopper.

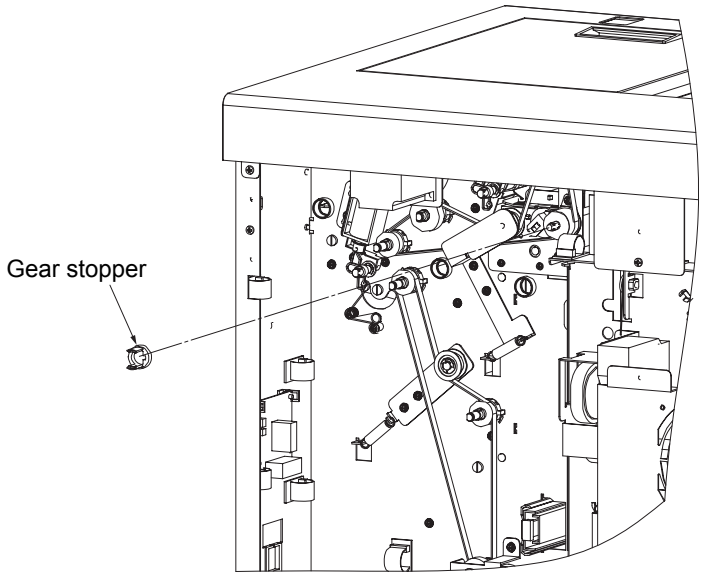


Fig. 6-75. Removal of the gear stopper U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that the inserting portion of the gear stopper is securely inserted.

6.4.3 Removal of Pulley U/L

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver and precision screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Remove the tension roller assemblies [1] and [3] (see section 6.3.11).
3. Remove the timing belts [1] and [3] (see section 6.3.13).
4. Remove the two gear stoppers and two pulleys U/L.

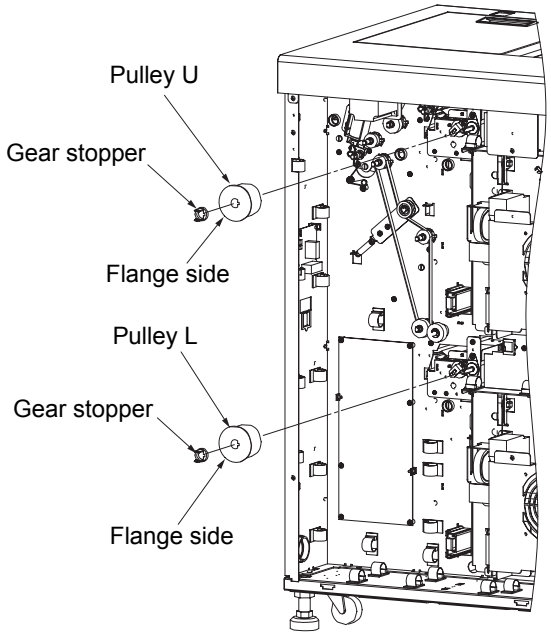


Fig. 6-76. Removal of the pulley U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.4.4 Removal of Stop Housing U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Remove the two plus screws and stop housing.

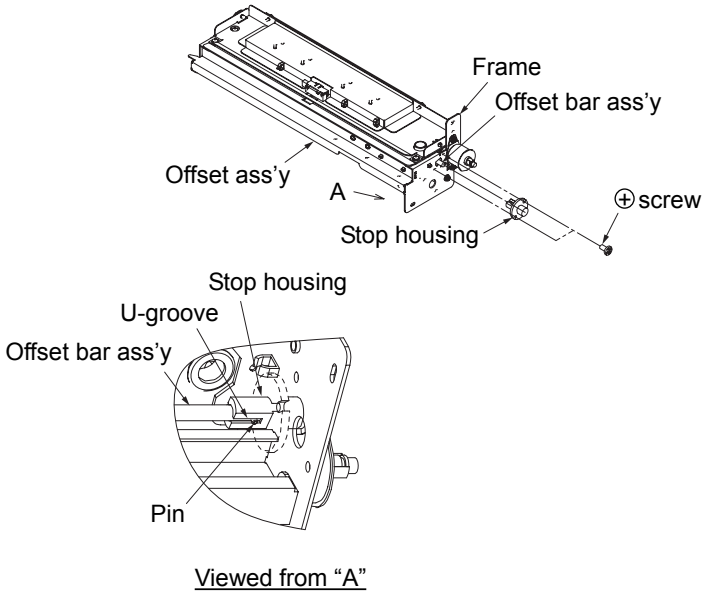


Fig. 6-77. Removal of the stop housing U/L

[Assembling procedure]
1. Insert the pin of the offset bar ass'y in the U-groove of the stop housing.
2. Perform the steps of disassembly in the reverse order.

6.4.5 Removal of Discharger U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Remove the two plus screws and the discharger.

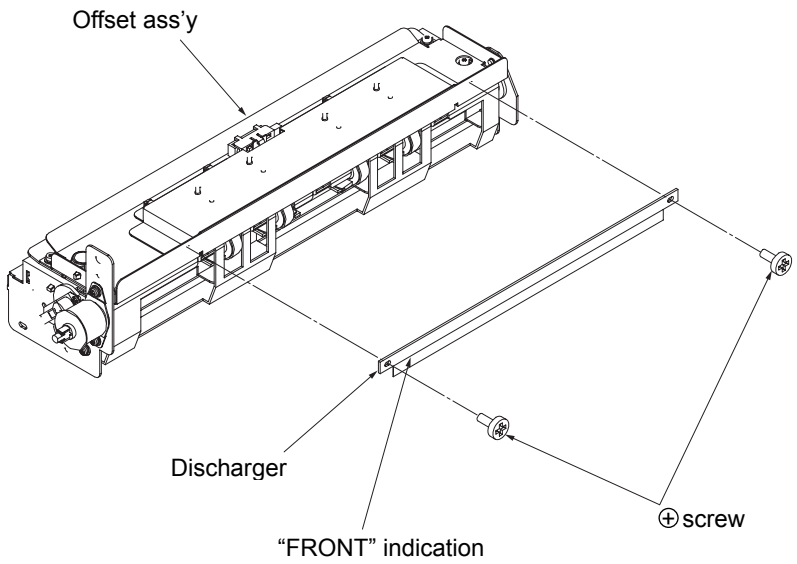


Fig. 6-78. Removal of the discharger U/L

[Assembling procedure]
1. Mount the discharger so that the indication "FRONT" is shown in the direction of the above figure.
2. Perform the steps of disassembly in the reverse order.

6.4.6 Removal of Paddle [1] [2] U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Turn the pulley to change the offset roller shaft ass'y and remove the five plus screws, five washers and four paddles [1] [2].

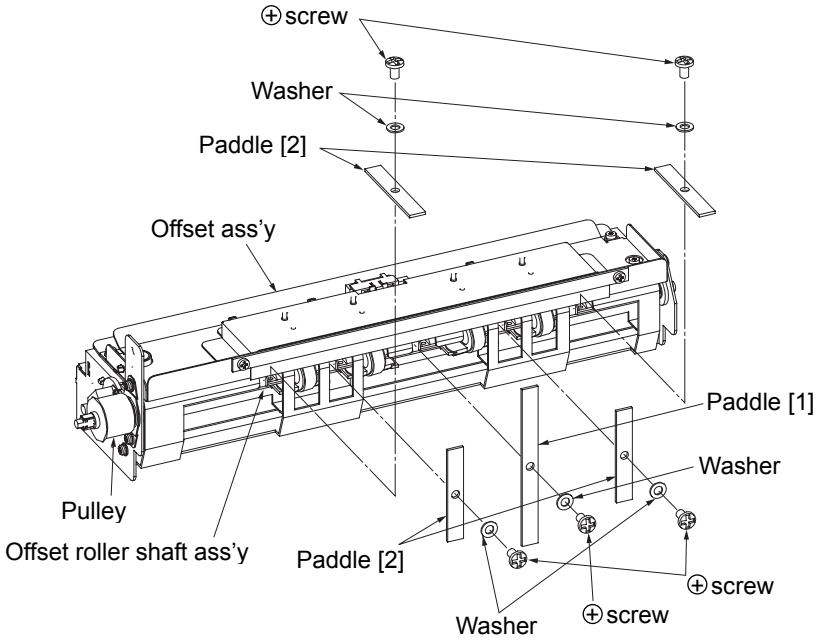


Fig. 6-79. Removal of the paddle [1] [2] U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.4.7 Removal of Paper Path Sensor and Sensor Holder U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Disconnect the connector and the paper path sensor.
3. Remove the sensor holder from the paper path sensor.

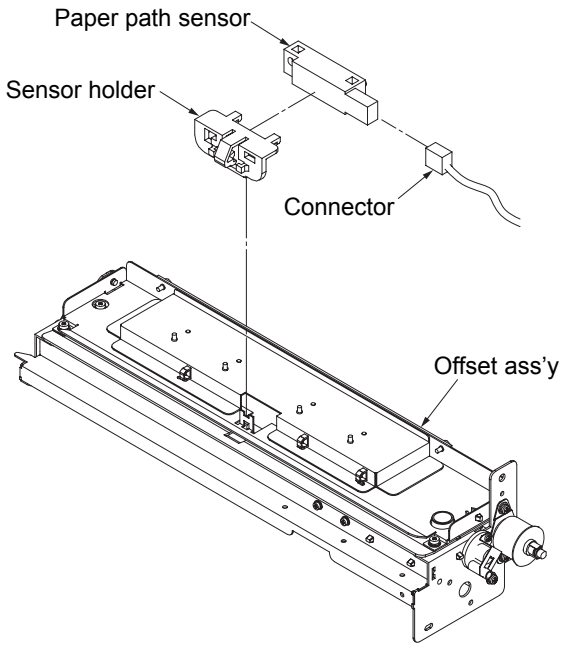


Fig. 6-80. Removal of the paper path sensor and sensor holder U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that the inserting portion of the sensor holder is securely inserted.

6.4.8 Removal of Ball Bearing U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Remove the plus screw and the ball bearing.

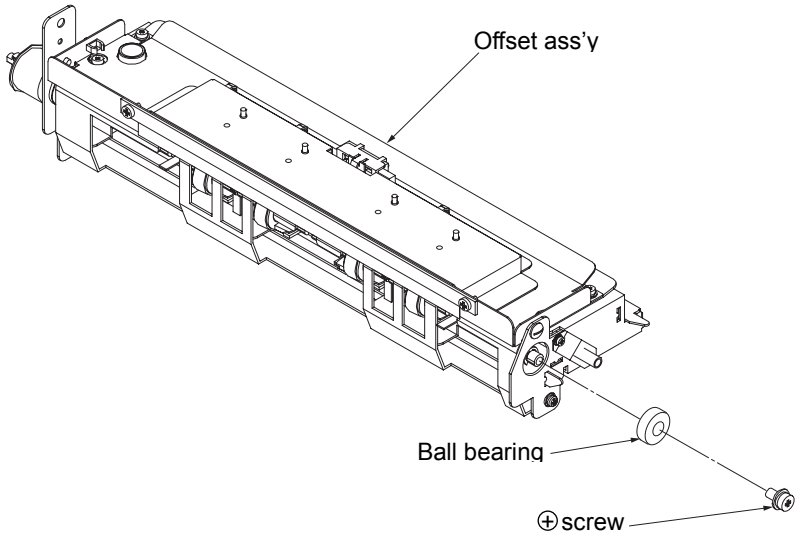


Fig. 6-81. Removal of the ball bearing U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.4.9 Removal of Idler Roller Ass'y U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.
Be careful not to drop the washer inside the printer during maintenance.

Tools required: Phillips screwdriver, flat-blade screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Remove the two plus screws and a minus screw then remove the offset PG (U) ass'y and the washer.
3. Remove the four plus screws and the four idler roller assemblies.

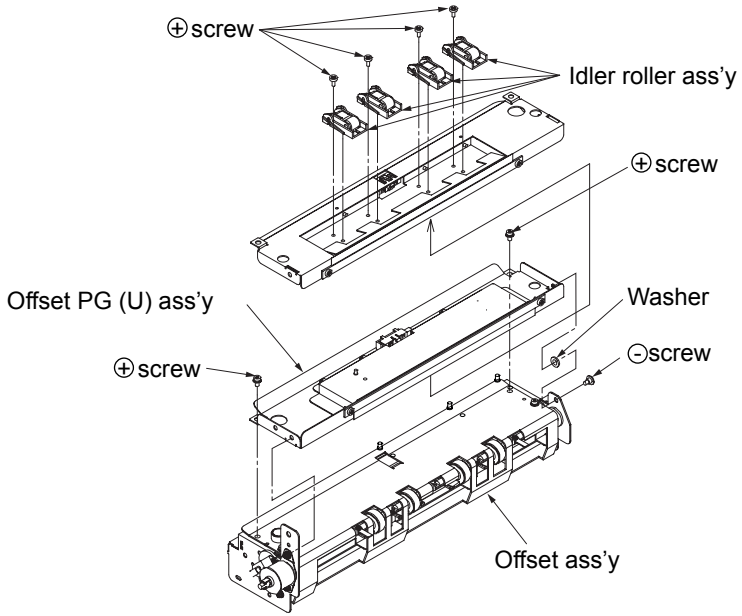


Fig. 6-82. Removal of the idler roller ass'y U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.4.10 Removal of Idler Roller (S) U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, flat-blade screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Remove the four idler roller assemblies (see section 6.4.9).
3. Remove the four idler rollers (S).

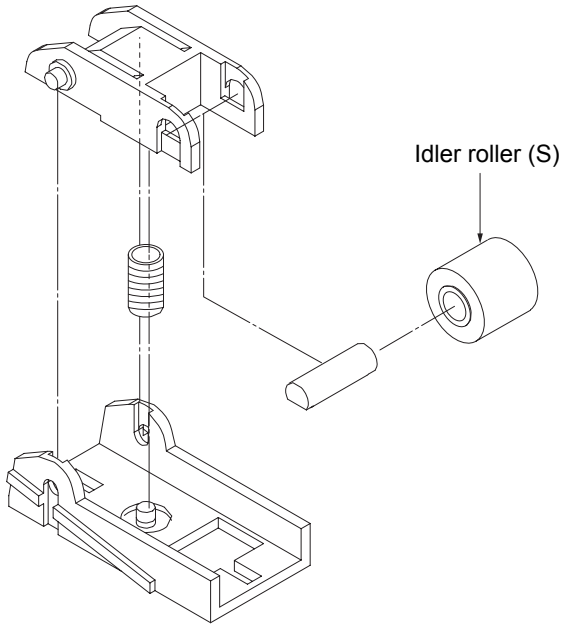


Fig. 6-83. Removal of the idler roller (S) U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.4.11 Removal of Offset Roller Ass'y and Offset Roller Shaft Ass'y U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, flat-blade screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Remove the offset PG (U) ass'y (see section 6.4.9).
3. Remove the four plus screws and the offset PG (L).
4. Remove the four paddles [1] [2] (see section 6.4.6).
5. Remove the ball bearing (see section 6.4.8).
6. Remove the pulley (see section 6.4.3).
7. Remove the E-ring, two plus screws, ball bearing holder, offset roller shaft ass'y and four offset roller assemblies.

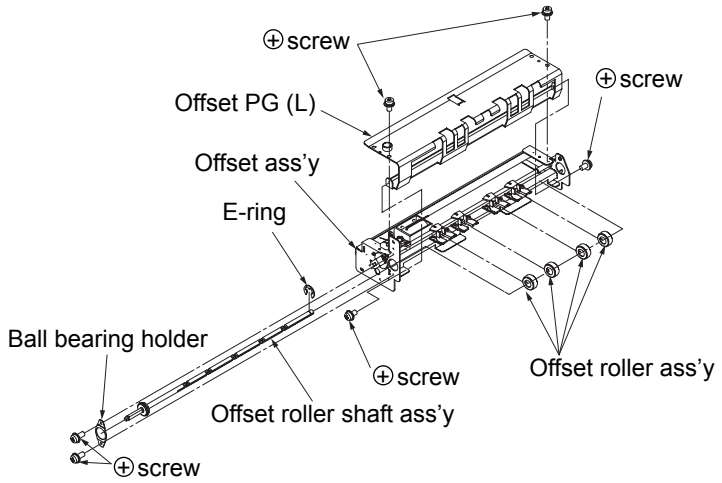


Fig. 6-84. Removal of the offset roller ass'y and offset roller shaft ass'y U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.4.12 Removal of Offset Roller Holder U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, flat-blade screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Remove the offset roller shaft ass'y and four offset roller assemblies (see section 6.4.11).
3. Remove the four offset roller holders.

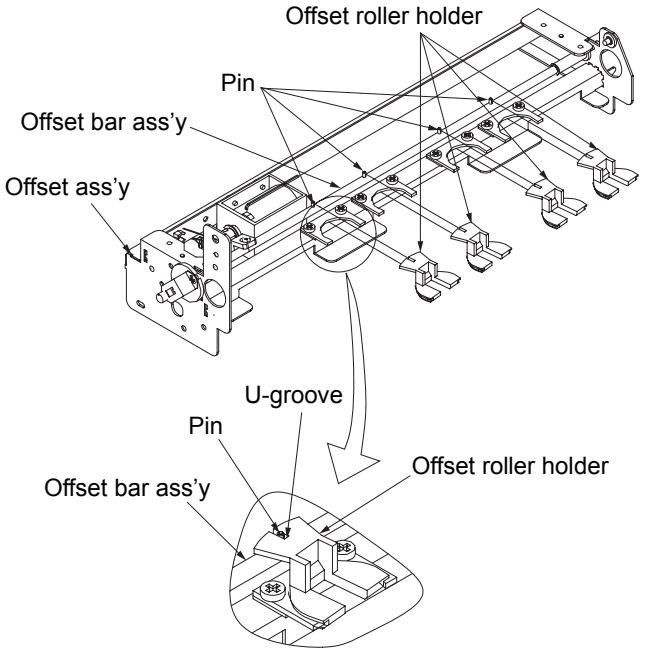


Fig. 6-85. Removal of the offset roller holder U/L

[Assembling procedure]
1. Insert the pin of the offset bar ass'y in the U-groove of the offset roller holder (4 pcs.).
2. Perform the steps of disassembly in the reverse order.

6.4.13 Removal of Sleeve Bearing and Compression Spring U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, flat-blade screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Remove the offset PG (L) (see section 6.4.11).
3. Remove the stop housing (see section 6.4.4).
4. Remove the offset bar ass'y, compression spring and sleeve bearing.

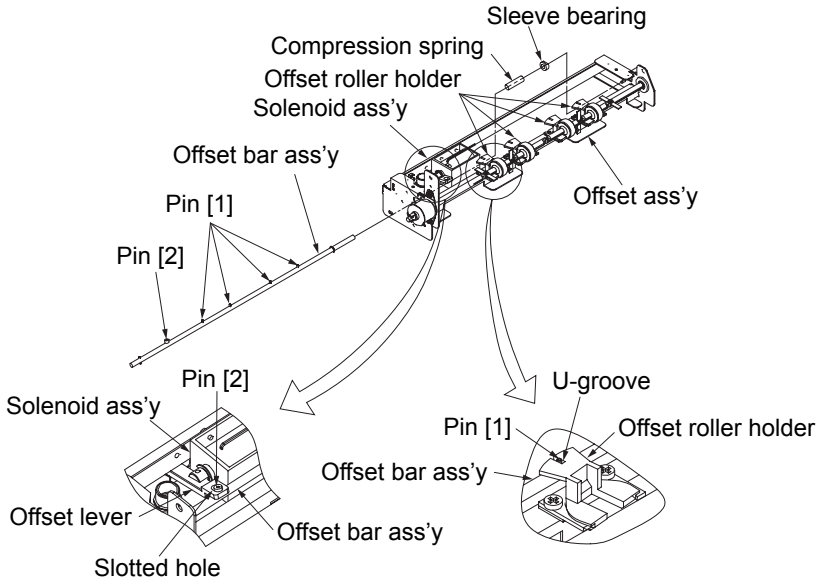


Fig. 6-86. Removal of the sleeve bearing and the compression spring [2] U/L

[Assembling procedure]
1. Insert the pin of the offset bar ass'y in the U-groove of the offset roller holder (4 pcs.).
2. Insert the pin [2] of the offset bar ass'y in the slotted hole of the offset lever.
3. Perform the steps of disassembly in the reverse order.

6.4.14 Removal of Solenoid Ass'y U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, flat-blade screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the offset ass'y (see section 6.4.1).
2. Remove the offset PG (L) (see section 6.4.11).
3. Disconnect the cable of the solenoid ass'y from the cable clamp.
4. Remove the four plus screws, solenoid ass'y and lever base ass'y.

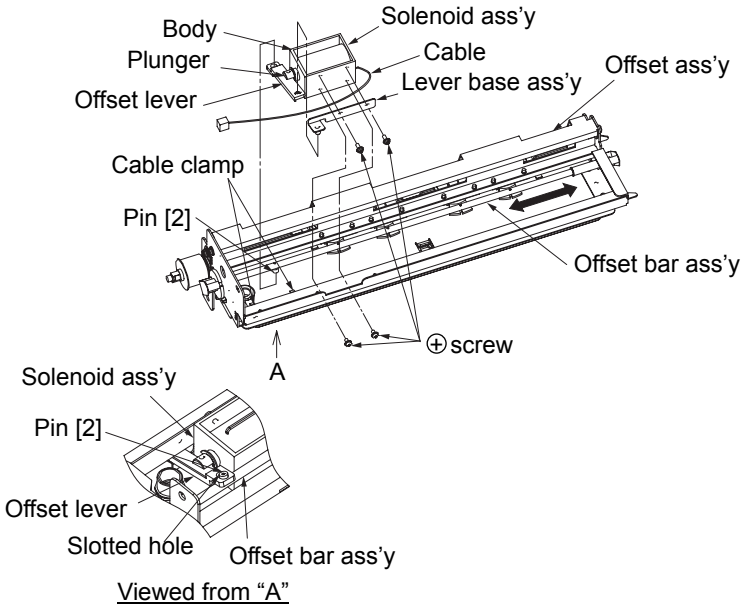


Fig. 6-87. Removal of the solenoid ass'y U/L

[Assembling procedure]
1. Insert the pin of the offset bar ass'y in the slotted hole of the offset lever.
2. Perform the steps of disassembly in the reverse order.

[Check]
Push the plunger toward the body to check the operation of the offset bar ass'y.

6.5 Removal of Tray Unit (Container Stacker Ass'y 1 only)

6.5.1 Removal of Tray Ass'y

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the front cover (L) ass'y (upper) and the front cover (R) ass'y (see section 3.4.1).
2. Remove the side cover, rear cover ass'y and T cover ass'y (see section 3.4.2).
3. Remove the eight plus screws and the tray ass'y.

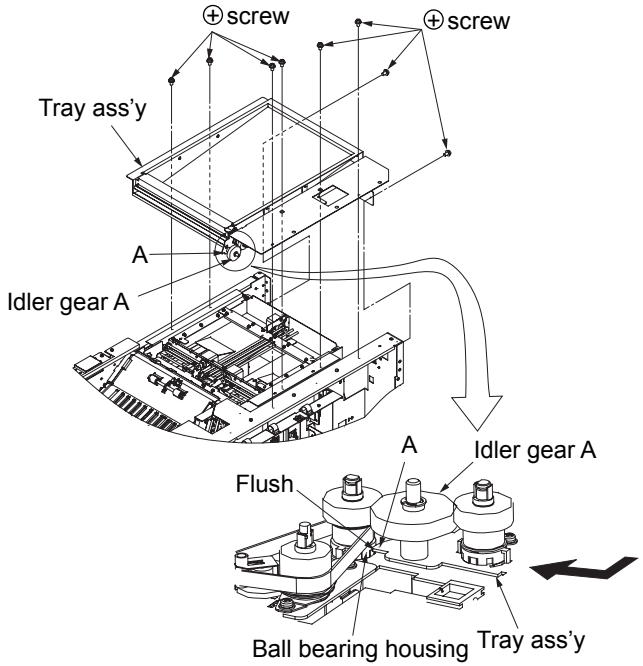


Fig. 6-88. Removal of the tray ass'y

[Assembling procedure]
1. Secure the tray ass'y making the "A" portion flush with the ball bearing housing.
2. Perform the steps of disassembly in the reverse order.

6.5.2 Removal of Discharger

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the two plus screws and the discharger.

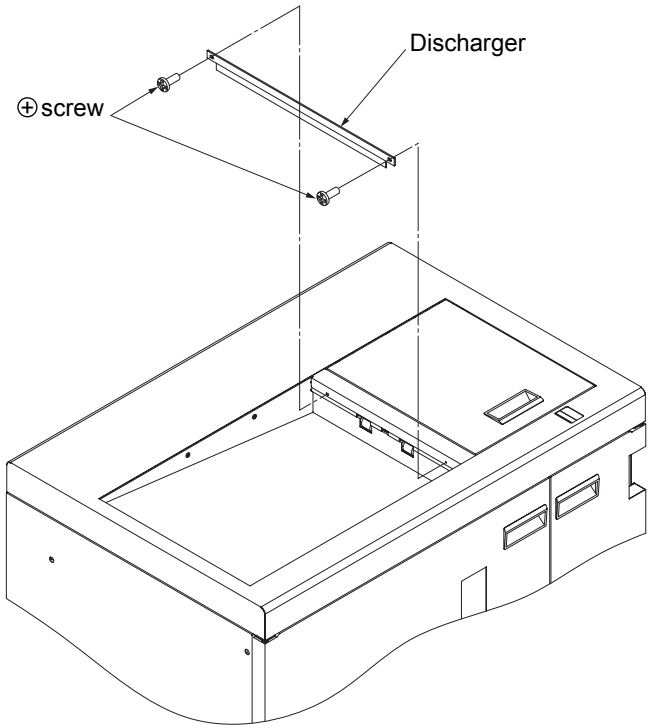


Fig. 6-89. Removal of the discharger

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.5.3 Removal of Pressure Roller Ass'y and Compression Spring

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver, tweezers and pliers

[Disassembling procedure]
1. Remove the front cover (L) ass'y (upper) and the front cover (R) ass'y (see section 3.4.1).
2. Remove the rear cover ass'y and the T cover ass'y (see section 3.4.2).
3. Remove the discharger (see section 6.5.2).
4. Remove the two plus screws and the roller cover.
5. Remove the compression spring and the pressure roller ass'y.

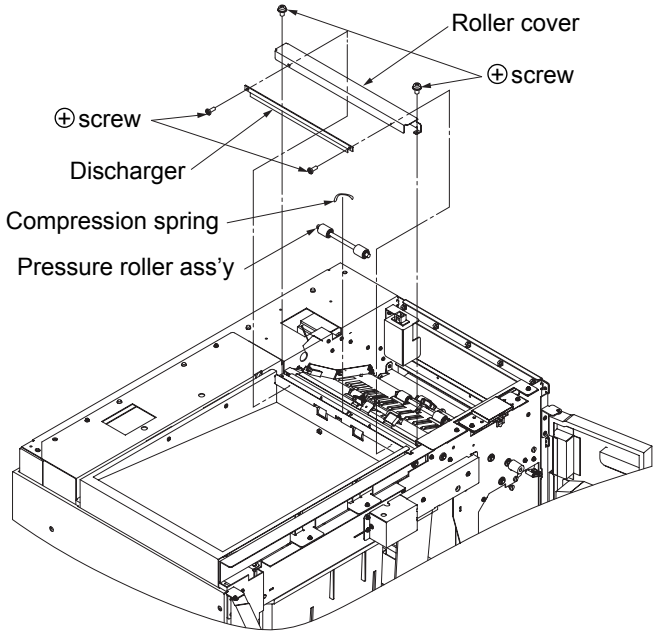


Fig. 6-90. Removal of the pressure roller ass'y and the compression spring

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.5.4 Removal of Idler Gear A

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the tray ass'y (see section 6.5.1).
2. Remove the E-ring and the idler gear A.

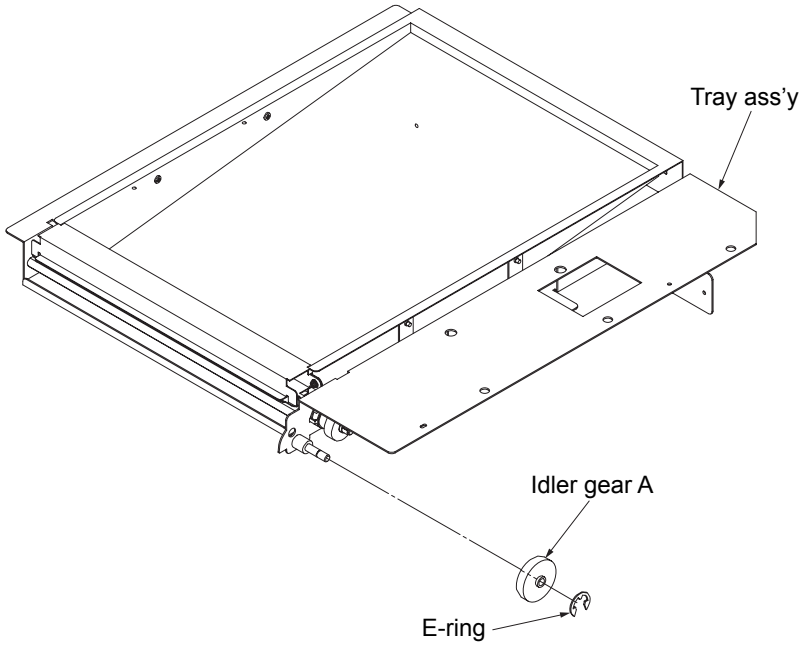


Fig. 6-91. Removal of the idler gear A

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.5.5 Removal of Gear Stopper

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver and precision screwdriver

[Disassembling procedure]
1. Remove the tray ass'y (see section 6.5.1).
2. Remove the gear stopper.

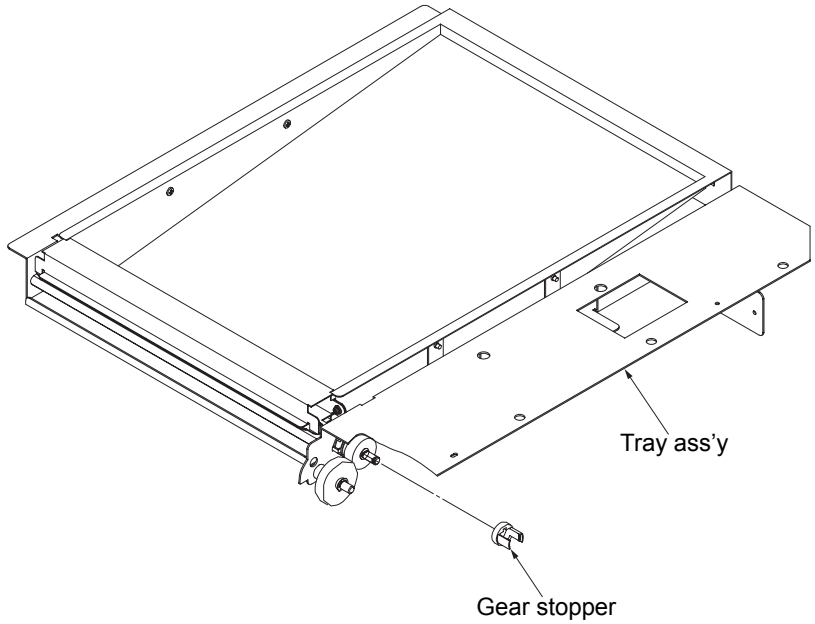


Fig. 6-92. Removal of the gear stopper

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that the inserting portion of the gear stopper is securely inserted.

6.5.6 Removal of Gear (A)

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver and precision screwdriver

[Disassembling procedure]
1. Remove the tray ass'y (see section 6.5.1).
2. Remove the gear stopper and the gear (A).

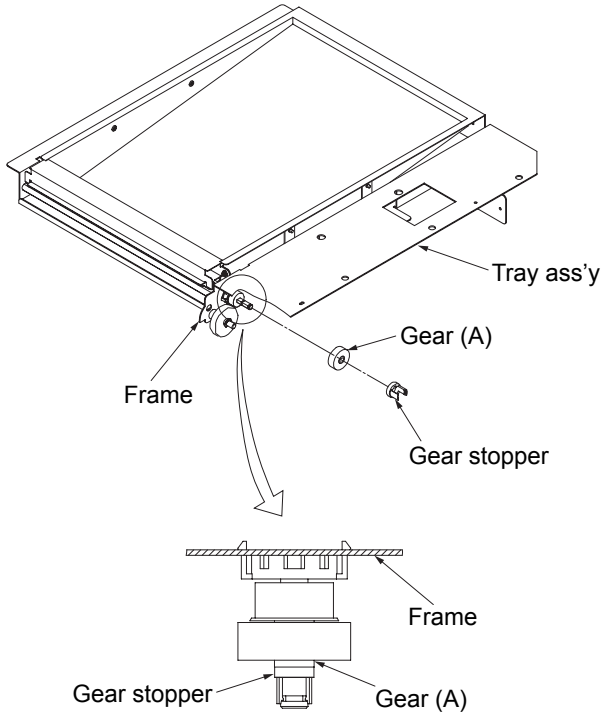


Fig. 6-93. Removal of the gear (A)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.5.7 Removal of Pulley (A)

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver and precision screwdriver

[Disassembling procedure]
1. Remove the tray ass'y (see section 6.5.1).
2. Remove the gear stopper, gear (A) and pulley (A).

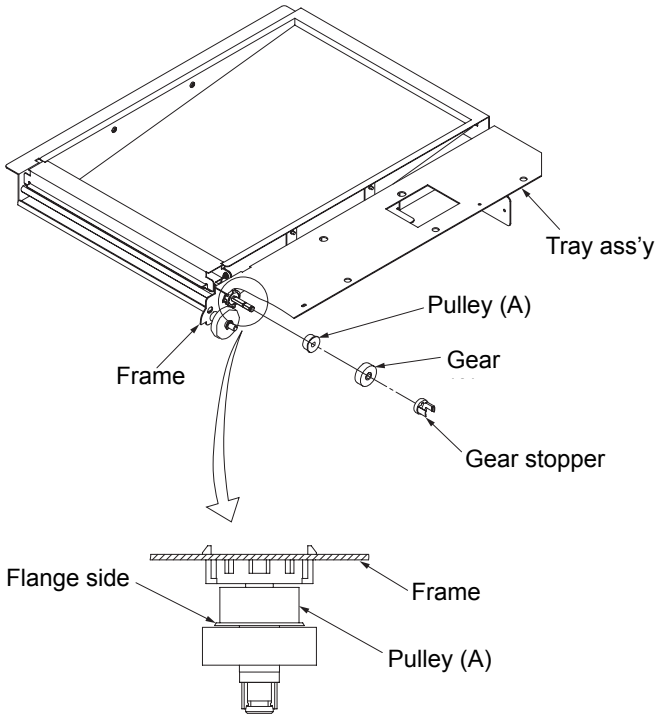


Fig. 6-94. Removal of the pulley (A)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.5.8 Removal of Sleeve Bearing

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the tray ass'y (see section 6.5.1).
2. Remove the E-ring and the sleeve bearing.

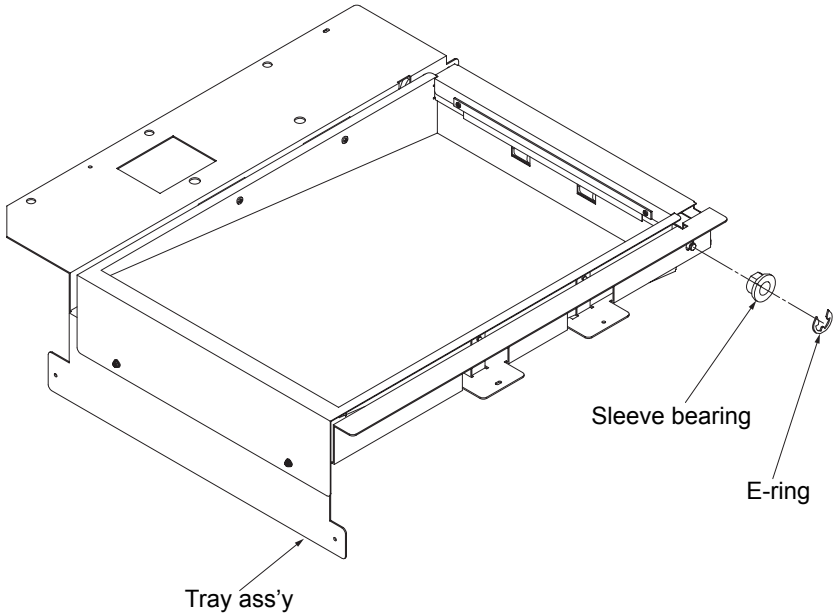


Fig. 6-95. Removal of the sleeve bearing

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.5.9 Removal of Feed Roller CS Ass'y

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the tray ass'y (see section 6.5.1).
2. Remove the six plus screws and the tray plate.
3. Remove the pulley (A) (see section 6.5.7).
4. Remove the sleeve bearing (see section 6.5.8).
5. Turn the ball bearing housing and remove the feed roller CS ass'y.

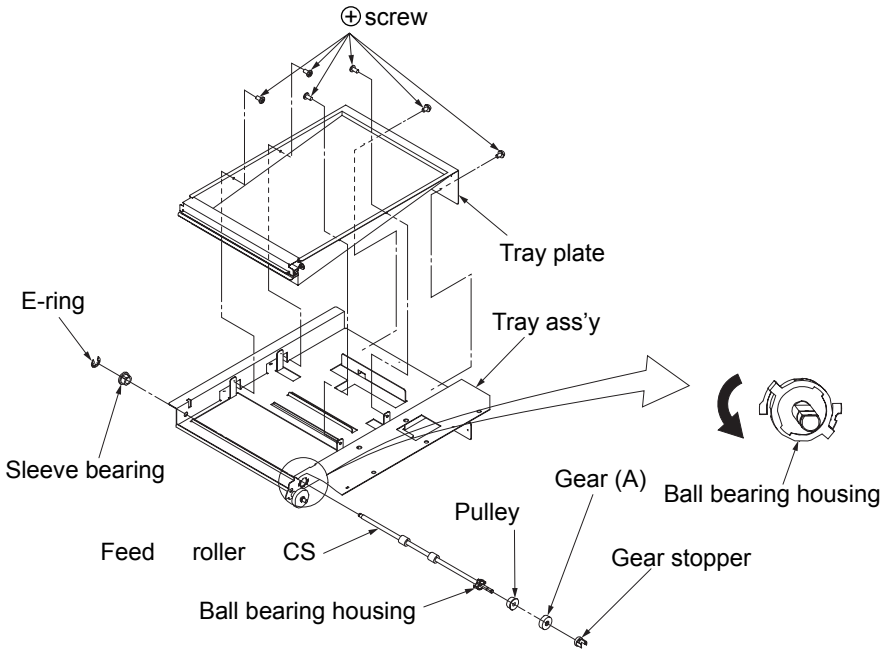


Fig. 6-96. Removal of the feed roller CS ass'y

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6 Removal of Add-on Path Unit (container stacker ass'y 2 only)

6.6.1 Removal of Add-on Ass'y

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Note: Disconnect the container stacker ass'y 2 from the container stacker ass'y 1 or the finisher before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (upper) and the front cover (R) ass'y (see section 3.4.1).
2. Remove the rear cover ass'y, side cover B and T cover ass'y (see section 3.4.2).
3. Disconnect the three connectors.
4. Remove the eight plus screws and the add-on ass'y.

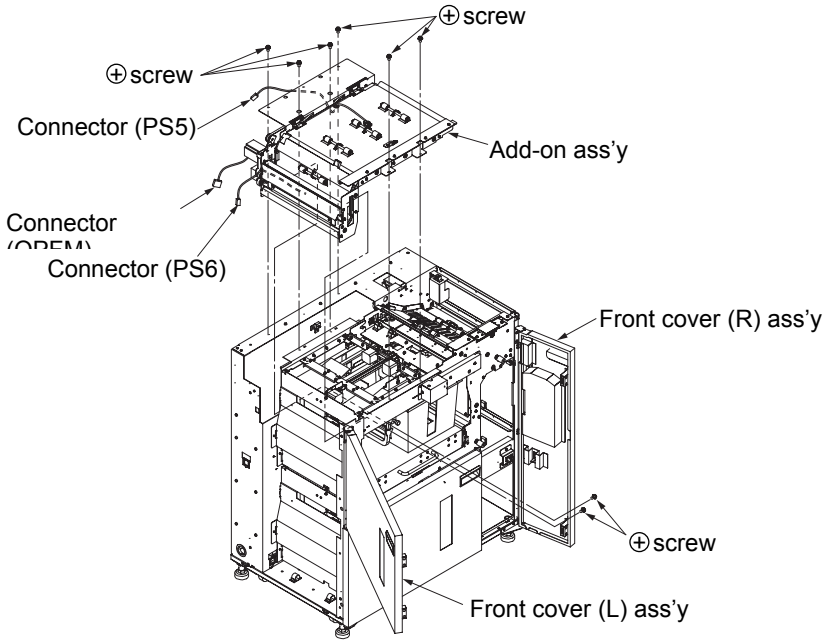


Fig. 6-97. Removal of the add-on ass'y

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.2 Removal of Paper Path Sensor (upper) and Sensor Holder

WARNING: Turn off the power switch before maintenance.

Tools required: None

[Disassembling procedure]
1. Open the top cover 1 ass'y and the top cover 2 ass'y (see section 3.4.1).
2. Disconnect the connector.
3. Remove the paper path sensor and the sensor holder.

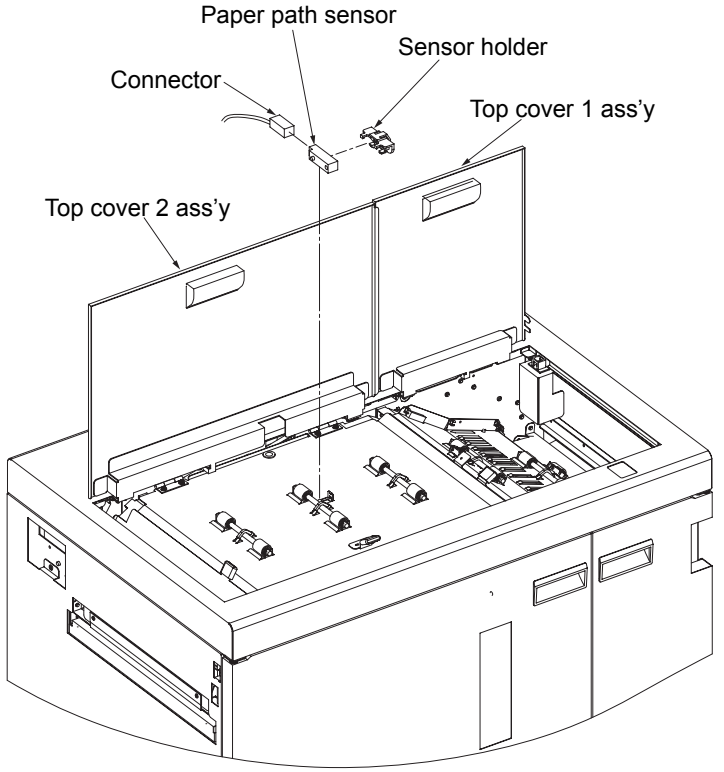


Fig. 6-98. Removal of the paper path sensor (upper) and the sensor holder

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.3 Removal of Paper Path Sensor (discharging side) and Sensor Holder

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the four plus screws and the frame stay.
3. Disconnect the connector.
4. Remove the paper path sensor and the sensor holder.

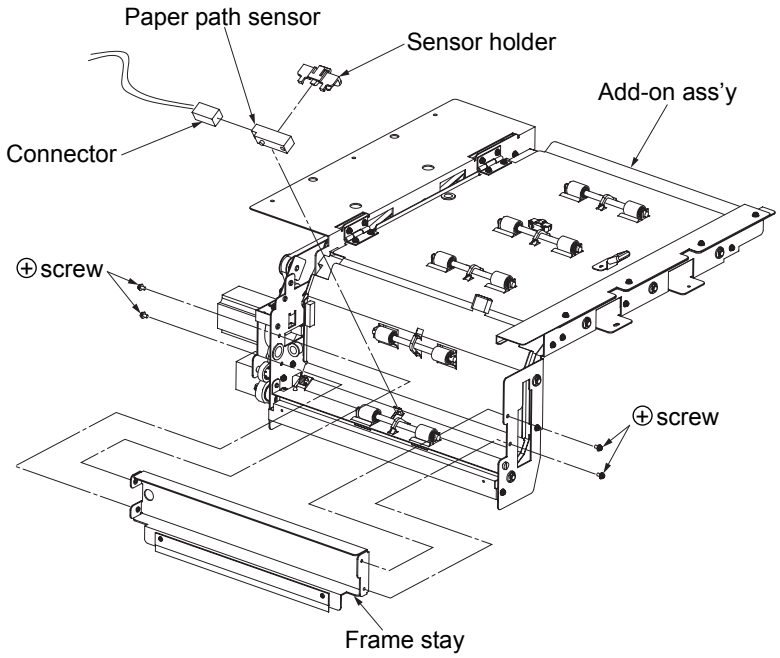


Fig. 6-99. Removal of the paper path sensor (discharging side) and the sensor holder

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.4 Removal of PHD knob

WARNING: Turn off the power switch before maintenance.

Tools required: Precision screwdriver

[Disassembling procedure]
1. Open the top cover 1 ass'y and the top cover 2 ass'y (see section 3.4.1).
2. Remove the two PHD knobs.

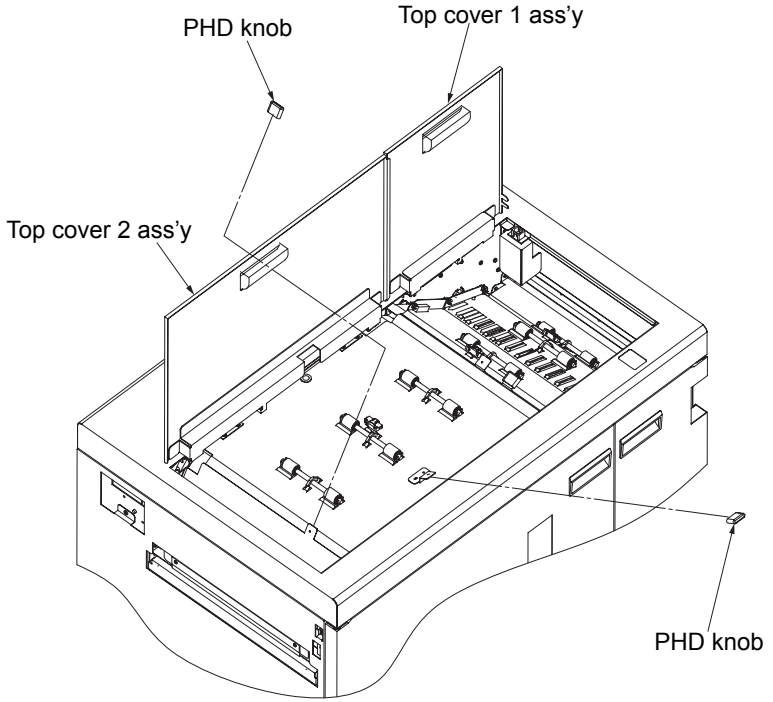


Fig. 6-100. Removal of the PHD knob

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.5 Removal of Extension Spring [1] (upper)

WARNING: Turn off the power switch before maintenance.

Tools required: Tweezers and pliers

[Disassembling procedure]
1. Open the top cover 1 ass'y and the top cover 2 ass'y (see section 3.4.1).
2. Remove the three extension springs [1].

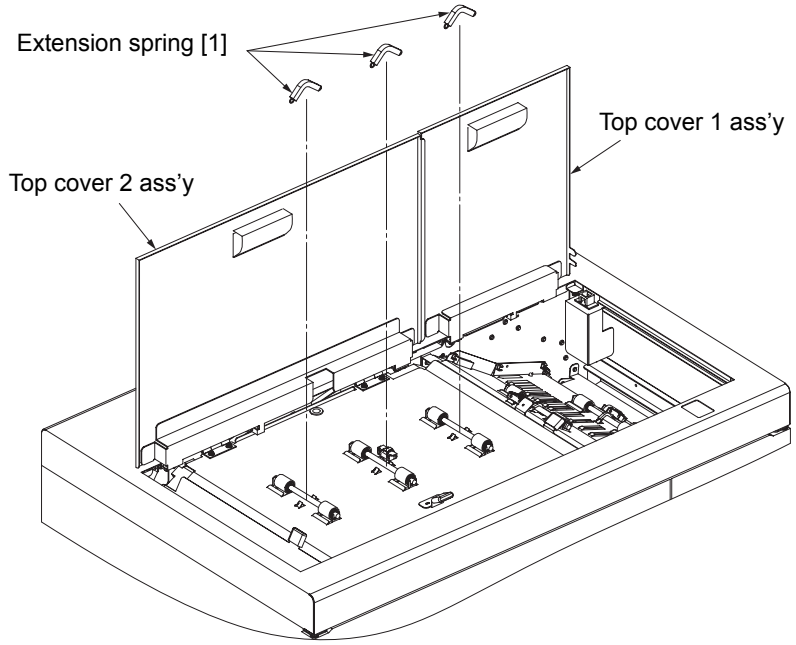


Fig. 6-101. Removal of the extension spring [1] (upper)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.6 Removal of Pressure Roller Ass'y (upper)

WARNING: Turn off the power switch before maintenance.

Tools required: Tweezers and pliers

[Disassembling procedure]
1. Open the top cover 1 ass'y and the top cover 2 ass'y (see section 3.4.1).
2. Open the three extension springs [1] (see section 6.6.5).
3. Remove the three pressure roller assemblies.

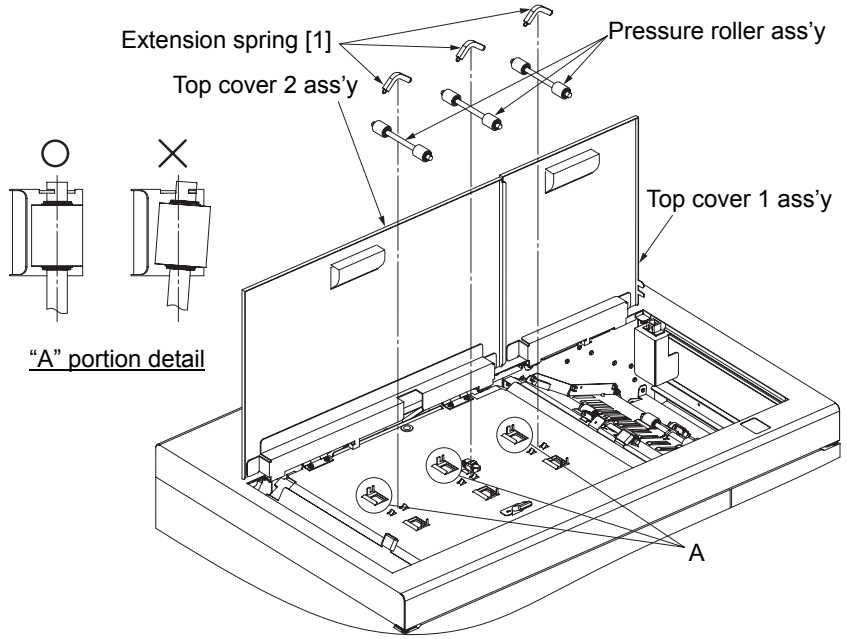


Fig. 6-102. Removal of the pressure roller ass'y (upper)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
See "A" portion detail for mounting the pressure roller ass'y.

6.6.7 Removal of Extension Spring [1] (discharging side)

WARNING: Turn off the power switch before maintenance.

Tools required: Tweezers and pliers

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the four plus screws and the frame stay.
3. Remove the two extension springs [1].

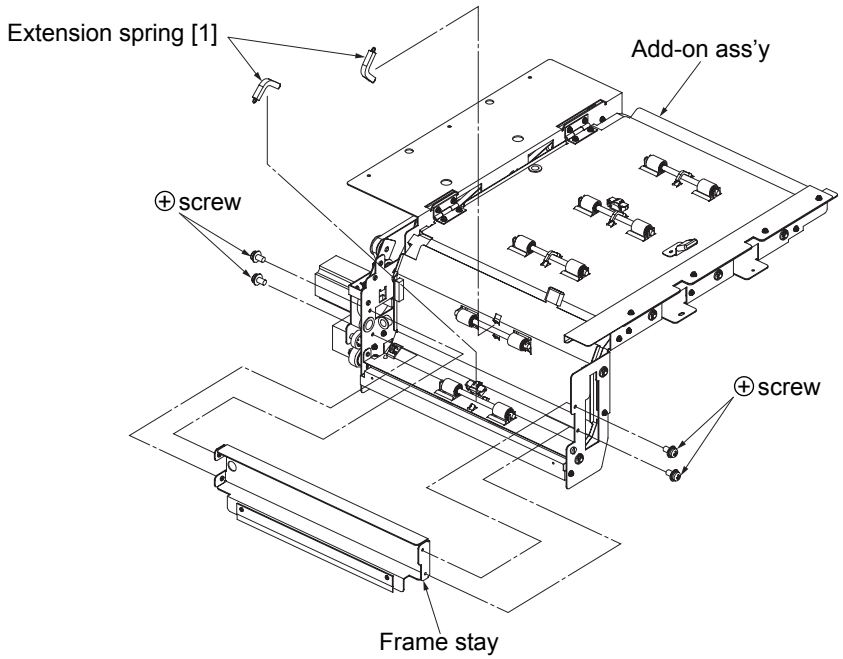


Fig. 6-103. Removal of the extension spring [1] (discharging side)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.8 Removal of Pressure Roller Ass'y (discharging side).

WARNING: Turn off the power switch before maintenance.

Tools required: Tweezers and pliers

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the two extension springs [1] (see section 6.6.7).
3. Remove the two pressure roller assemblies.

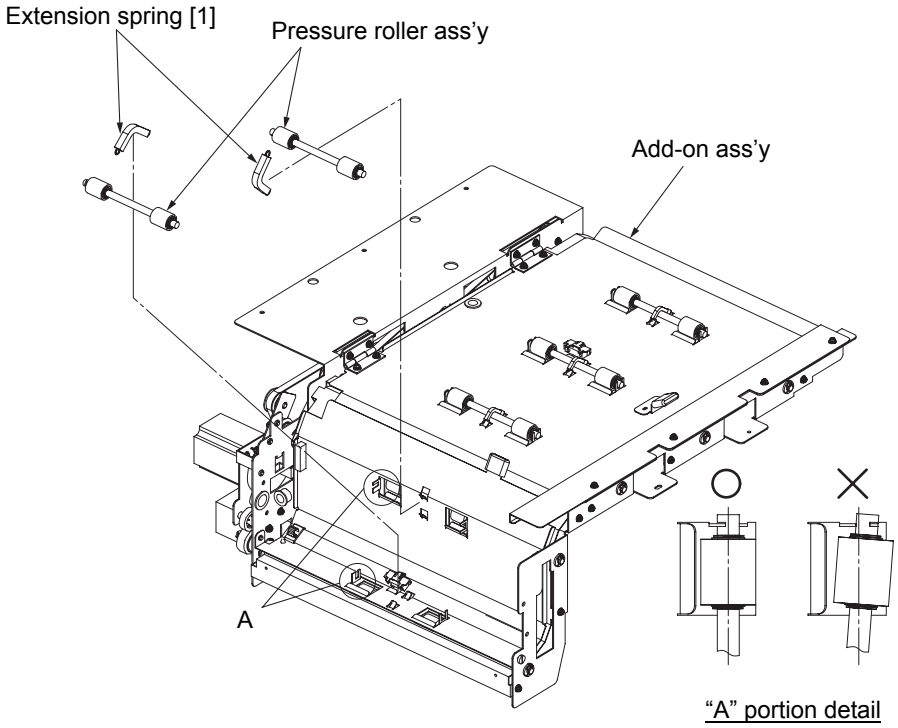


Fig. 6-104. Removal of the pressure roller ass'y (discharging side)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.
See "A" portion detail for mounting the pressure roller ass'y.

6.6.9 Removal of Discharger

WARNING: Turn off the power switch before maintenance.
Note: Disconnect the container stacker ass'y 2 from the container stacker ass'y 1 or the finisher before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the two plus screws and the discharger.

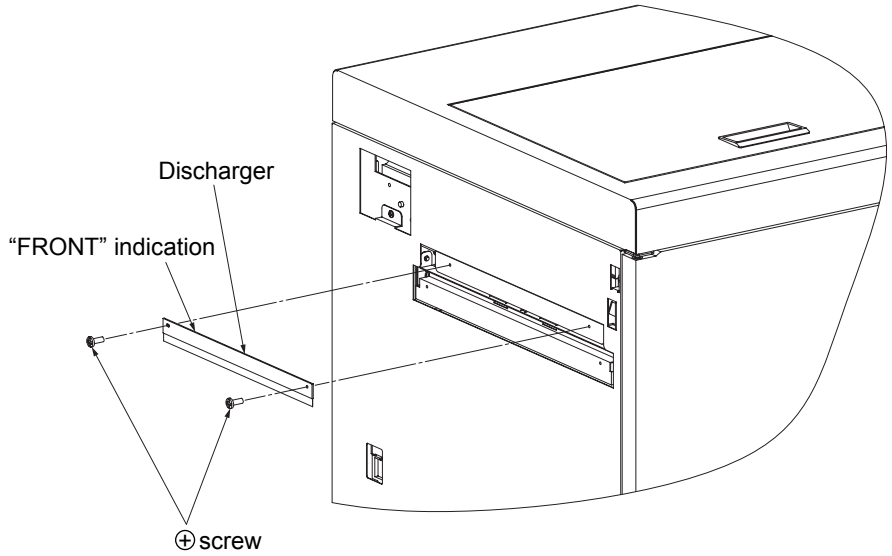


Fig. 6-105. Removal of the discharger

[Assembling procedure]
1. Mount the discharger so that the indication "FRONT" is shown in the direction of the above figure.
2. Perform the steps of disassembly in the reverse order.

6.6.10 Removal of Sleeve Bearing

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the five E-rings.
3. Remove the five sleeve bearings.

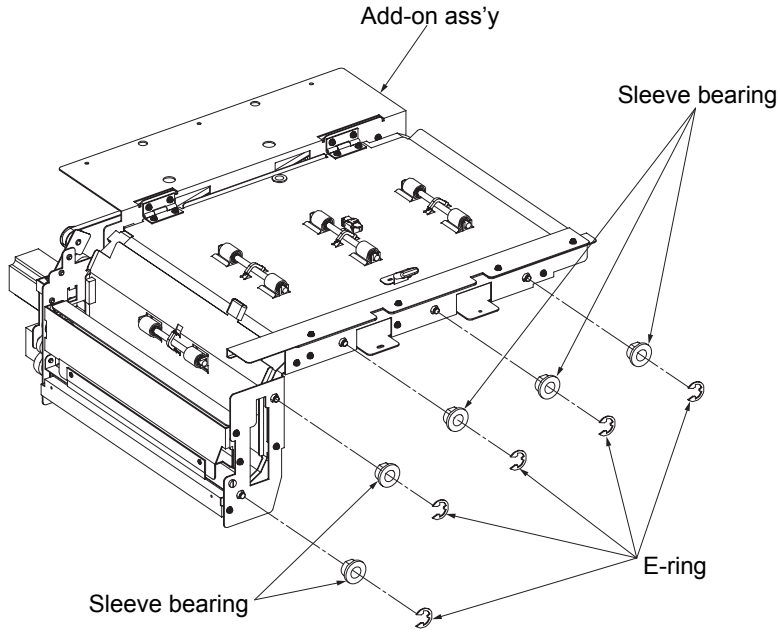


Fig. 6-106. Removal of the sleeve bearing

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.11 Removal of Gear Stopper

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver and precision screwdriver

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the five gear stoppers.

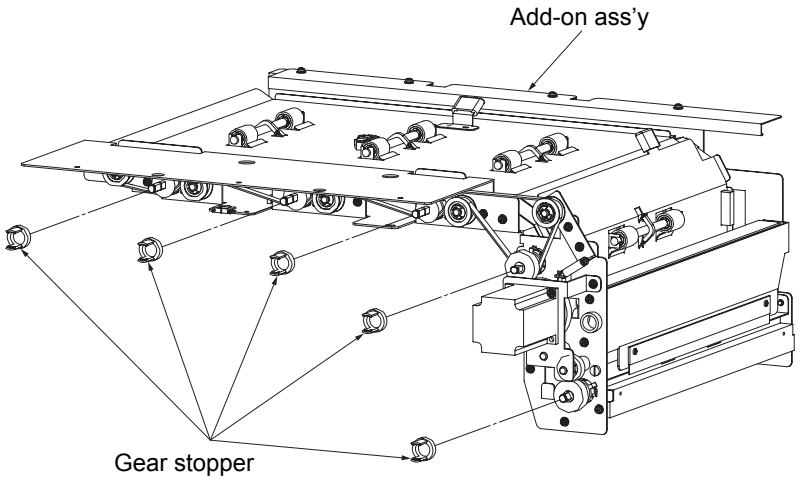


Fig. 6-107. Removal of the gear stopper

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that the inserting portion of the gear stopper is securely inserted.

6.6.12 Removal of Option Feed Motor and SB Motor Gear

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Disconnect the connector.
3. Remove the two plus screws and the motor holder
4. Remove the SB motor gear.
5. Remove the two plus screws and the option feed motor.

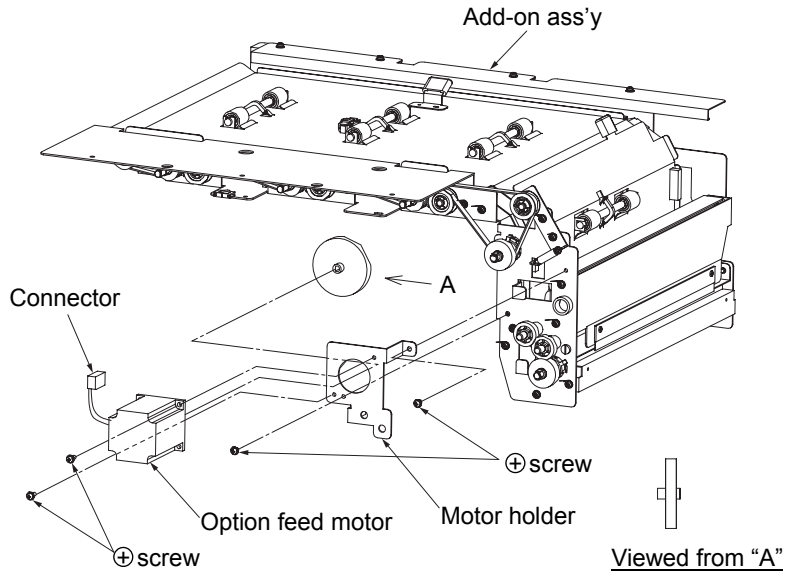


Fig. 6-108. Removal of the option feed motor and the SB motor gear

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.13 Removal of Gear (A)

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver and precision screwdriver

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the option feed motor and the SB motor gear (see section 6.6.12).
3. Remove the two gear stoppers.
4. Remove the two gears (A).

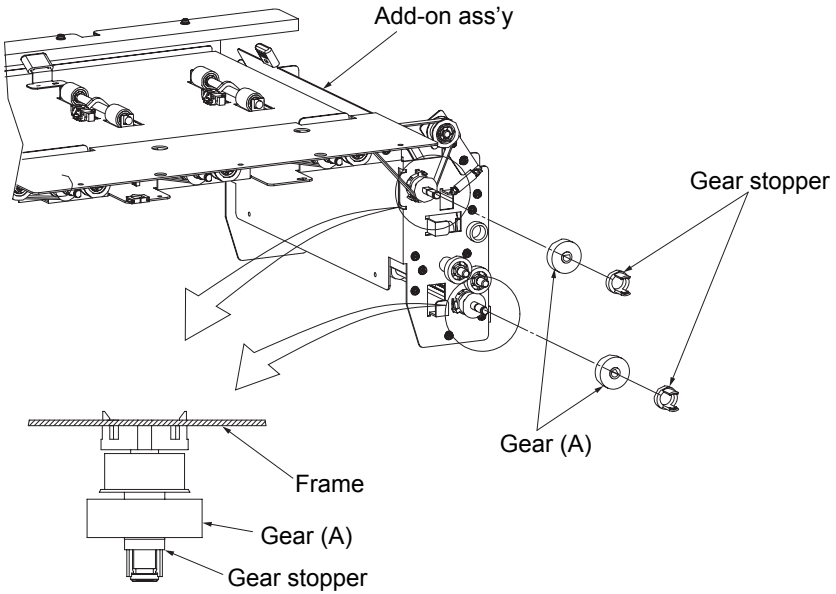


Fig. 6-109. Removal of the gear (A)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.14 Removal of Pick Idler Gear

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the option feed motor and the SB motor gear (see section 6.6.12).
3. Remove the two E-rings.
4. Remove the two pick idler gears.

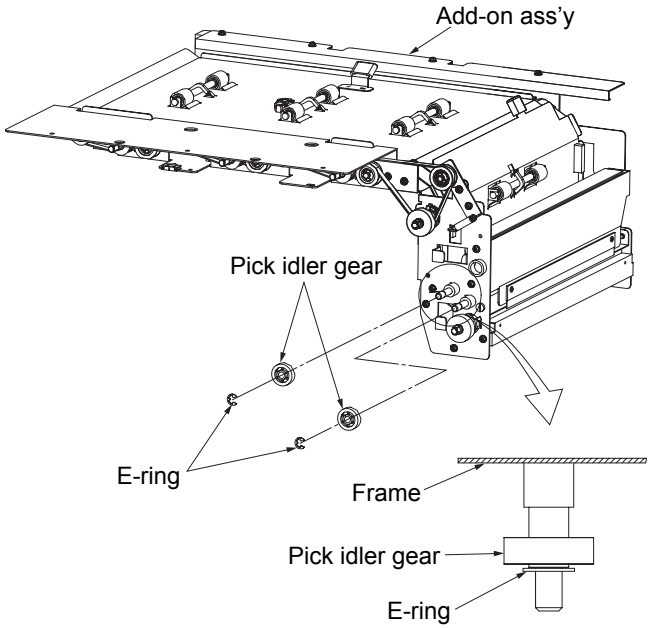


Fig. 6-110. Removal of the pick idler gear

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.15 Removal of Extension Spring [2]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the option feed motor and the SB motor gear (see section 6.6.12).
3. Remove the two plus screws, tension roller ass'y and extension spring [2].

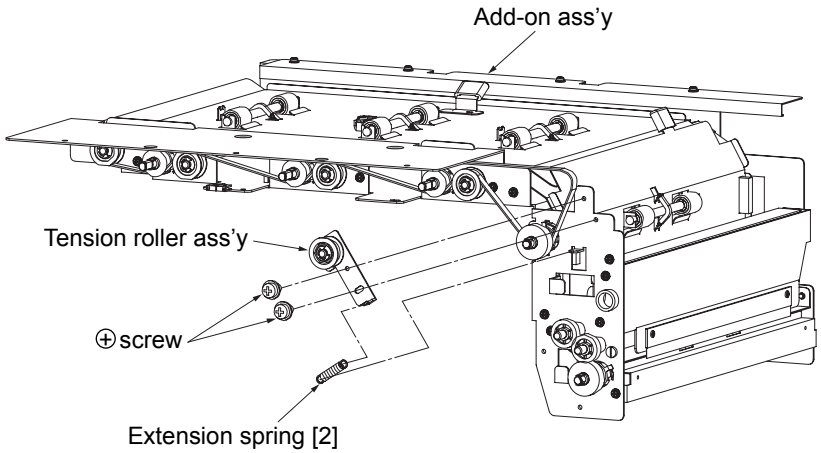


Fig. 6-111. Removal of the extension spring [2]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.16 Removal of Timing Belt

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the tension roller ass'y and the extension spring [2] (see section 6.6.15).
3. Remove the timing belt.

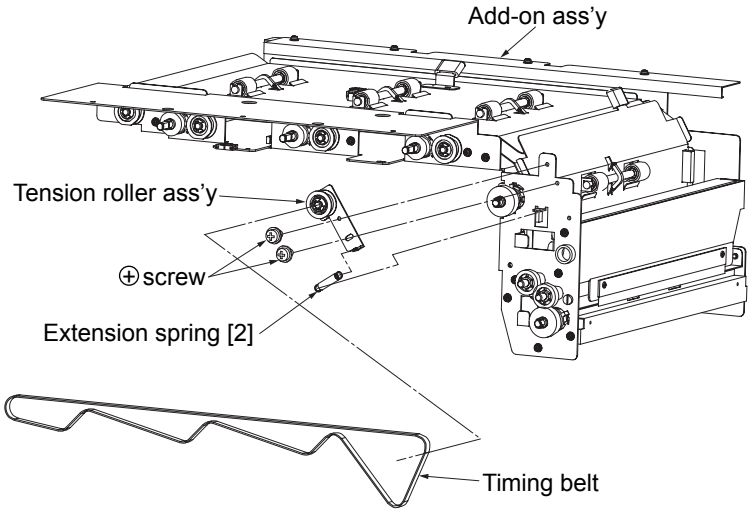


Fig. 6-112. Removal of the timing belt

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
The timing belt tension is mechanically determined only by the elasticity of the extension spring. Do not exert a force on the tension roller when securing the screw of the tension roller ass'y.

6.6.17 Removal of Tension Roller B and Ball Bearing

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the tension roller ass'y and the timing belt (see section 6.6.16).
3. Remove the five E-rings, five tension rollers B and ten ball bearings.

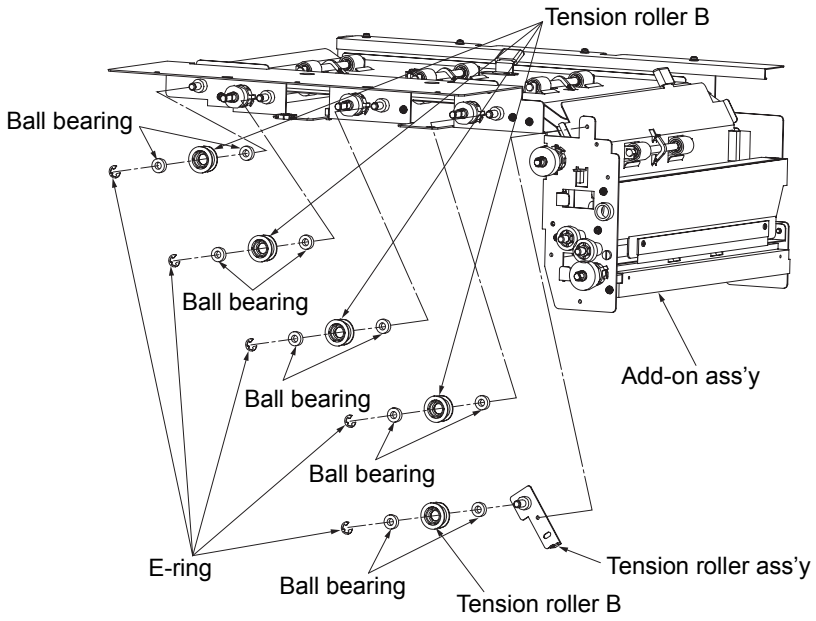


Fig. 6-113. Removal of the tension roller B and the ball bearing

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.18 Removal of Pulley (A)

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver and precision screwdriver

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the tension roller ass'y and the timing belt (see section 6.6.16).
3. Remove the five gear stoppers (see section 6.6.11).
4. Remove the two gears (A) (see section 6.6.13).
5. Remove the five pulleys (A).

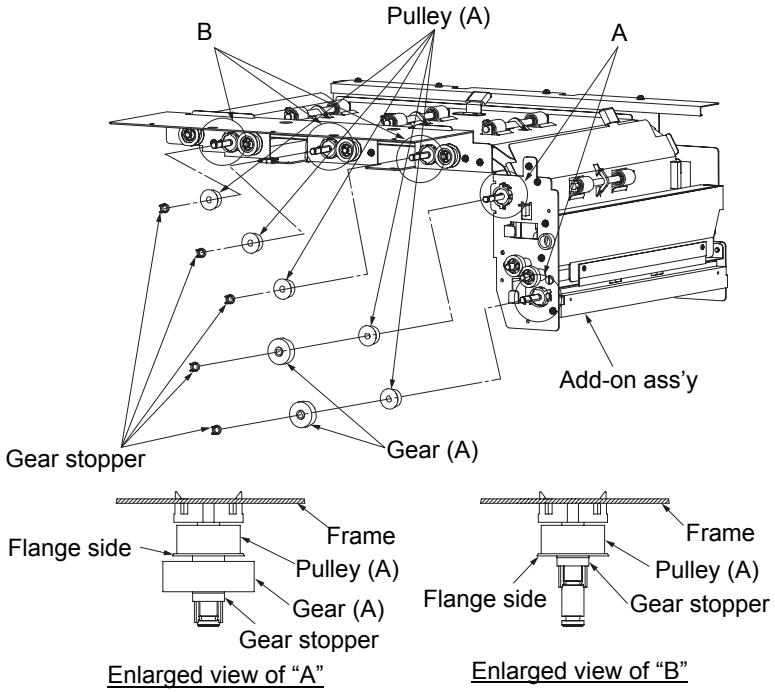


Fig. 6-114. Removal of the pulley (A)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.6.19 Removal of Feed Roller CS Ass'y

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the add-on ass'y (see section 6.6.1).
2. Remove the E-ring and the sleeve bearing (OP side) (see section 6.6.10).
3. Remove the pulley (A) (see section 6.6.18).
4. Turn the ball bearing housing and remove the five feed roller CS assemblies.

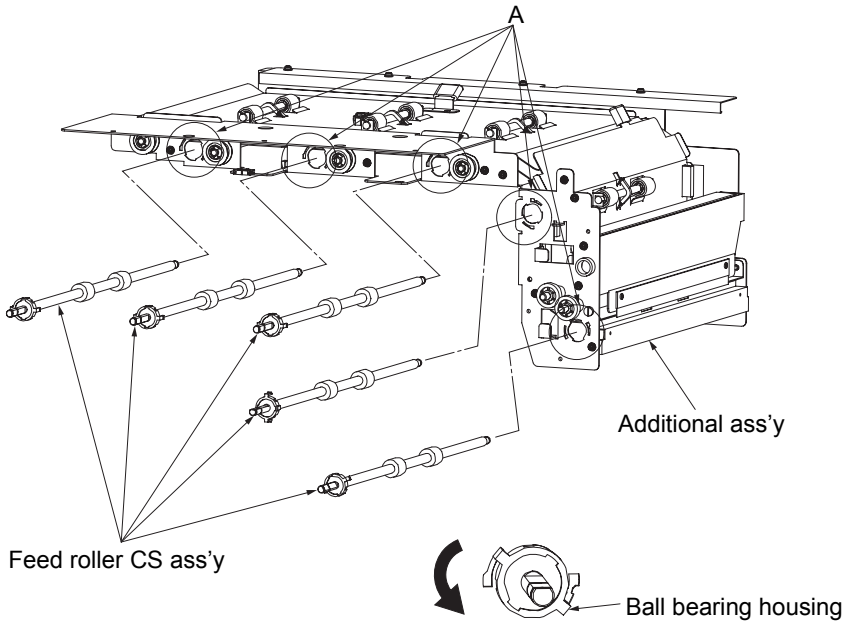


Fig. 6-115. Removal of the feed roller CS ass'y

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.7 Removal of Drawer Unit

6.7.1 Removal of Drawer Ass'y U/L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the front cover (L) ass'y (see section 3.4.1).
2. Remove the basket (see section 6.8.15).
3. Remove the two plus screws and the drawer ass'y.

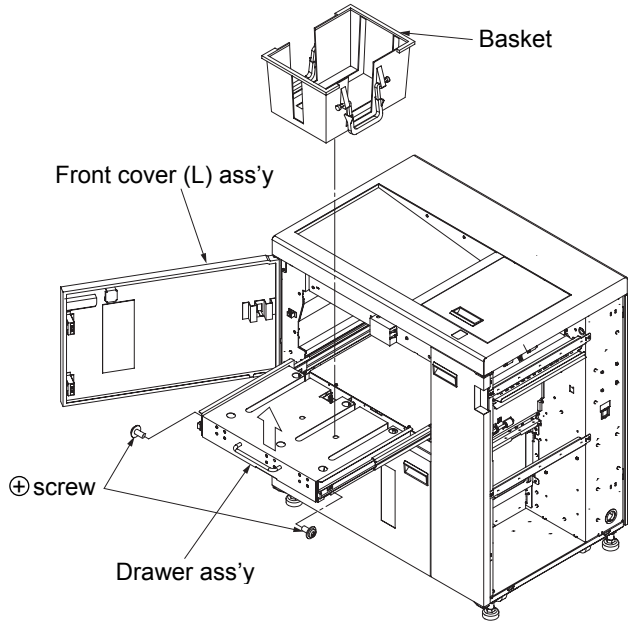


Fig. 6-116. Removal of the drawer ass'y U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.7.2 Removal of Hook Ring B U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the drawer ass'y (see section 6.7.1).
2. Remove the plus screw and the latch roller base ass'y.
3. Remove the six hook rings B.

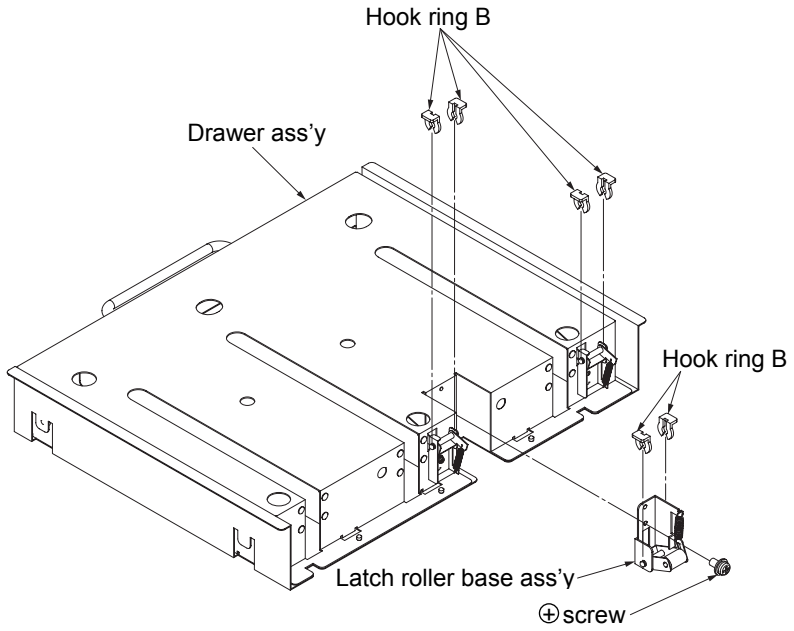


Fig. 6-117. Removal of the hook ring B U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.7.3 Removal of Extension Springs [1] and [2] U/L

WARNING: Turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver and pliers

[Disassembling procedure]
1. Remove the drawer ass'y (see section 6.7.1).
2. Remove the plus screw and the latch roller base ass'y.
3. Remove the two extension springs [1] and the extension spring [2].

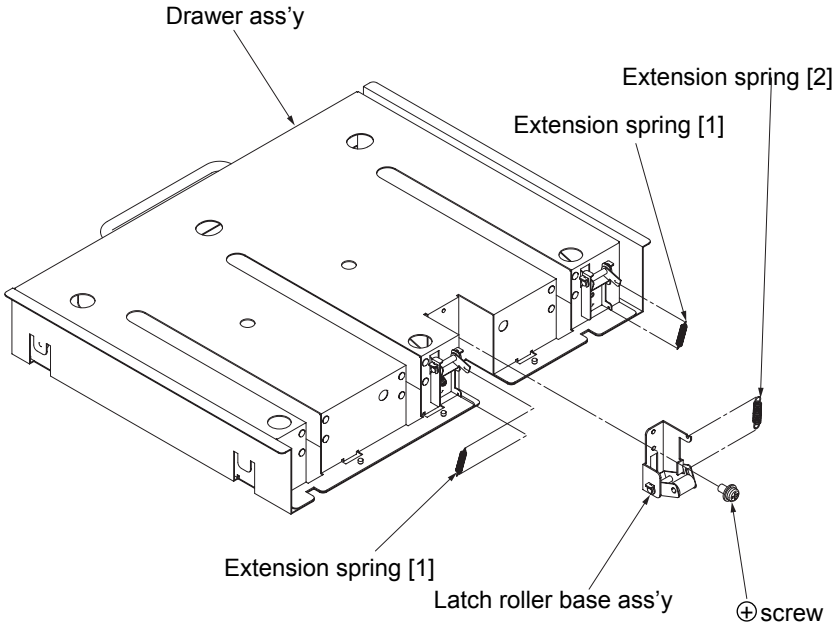


Fig. 6-118. Removal of the extension springs [1] and [2] U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8 Removal of Container Stacker

6.8.1 Removal of Power Supply

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Disconnect the three connectors.
3. Remove the three plus screws and the power supply.

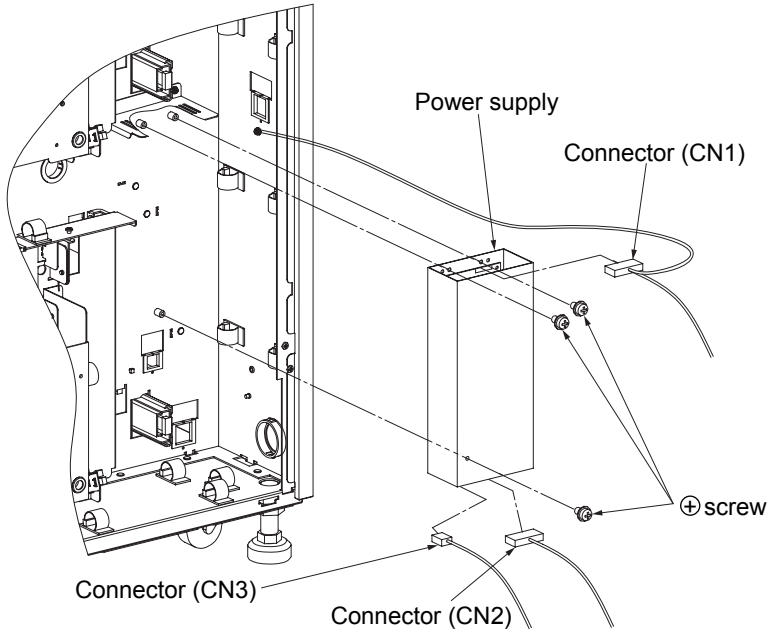


Fig. 6-119. Replacement of the power supply

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.2 Removal of ST09X Ass'y

WARNING: Turn off the power switch before maintenance.
Note: Only the container stacker ass'y 2 requires the connector P/J681 when using the container stacker ass'y 1 and the container stacker ass'y 2.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Disconnect the twenty-six connectors.
3. Remove the six plus screws and the ST09X ass'y.

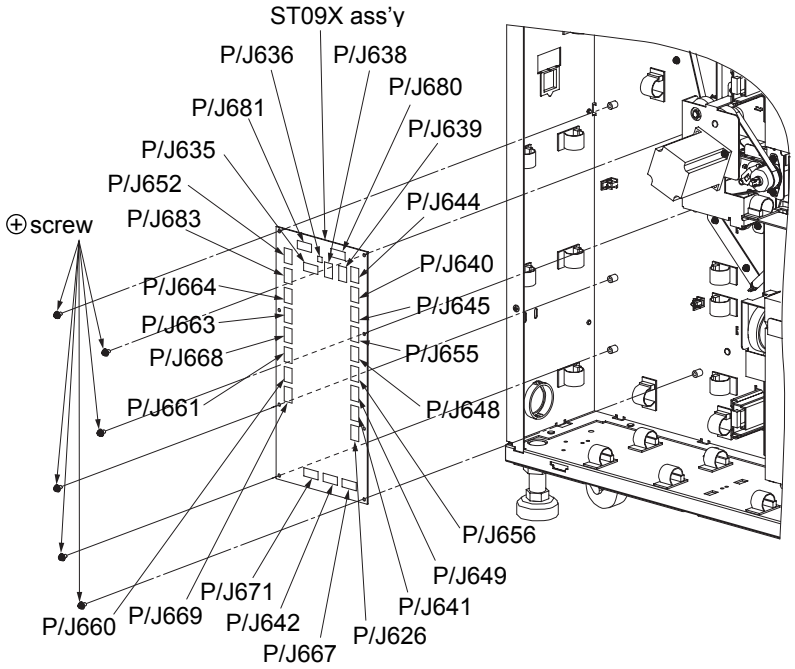


Fig. 6-120. Removal of the ST09X ass'y

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.3 Removal of Open Switch PK (SW96X Ass'y)

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the front cover (L) ass'y (upper) and the front cover (R) ass'y (see section 3.4.1).
2. Remove the rear cover ass'y and the T cover ass'y (see section 3.4.2).
3. Remove the two plus screws and the switch holder.
4. Disconnect the two connectors.
5. Remove the four plus screws and two open switches PK.

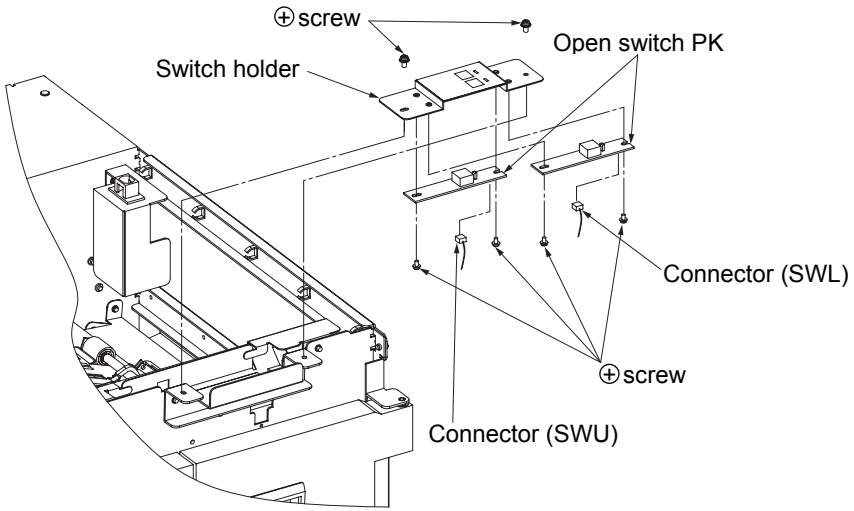


Fig. 6-121. Removal of the open switch PK (SW96X ass'y)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Mount the open switch PK as shown in the above figure (Fig. 6-121. Removal of the open switch PK (SW96X ass'y)).

6.8.4 Removal of Top Cover Switch

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the top cover 1 ass'y (see section 3.4.1).
2. Remove the two plus screws ,the switch holder and the switch cover.
3. Disconnect the four connectors.
4. Remove the top cover switch from the switch holder.

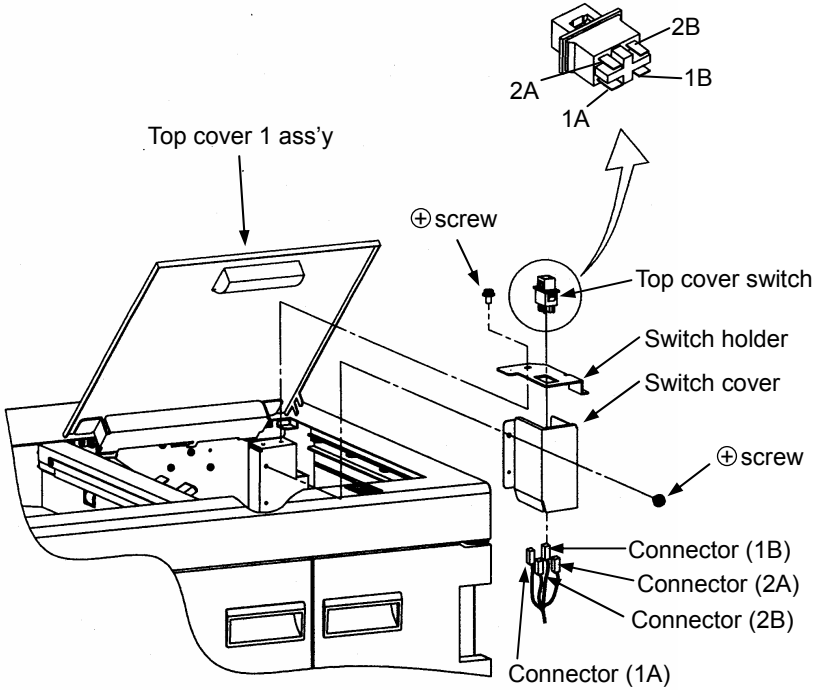


Fig. 6-122. Removal of the top cover switch

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.5 Removal of Jam Sensor U/L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (see section 3.4.1).
2. Remove the basket and insert the drawer (see section 6.8.15).
3. Disconnect the connector.
4. Remove the plus screw and the E sensor ass'y.
5. Remove the plus screw, E sensor holder, jam sensor and sensor holder (PH0).

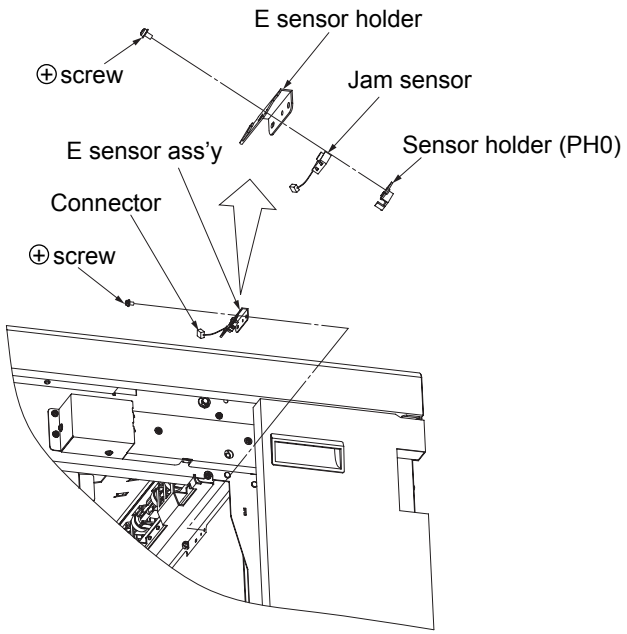


Fig. 6-123. Removal of the jam sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.6 Removal of Paper Empty Sensor L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (lower) (see section 3.4.1).
2. Remove the drawer ass'y L (see section 6.7.1).
3. Disconnect the connector.
4. Remove the plus screw and the paper empty sensor L.

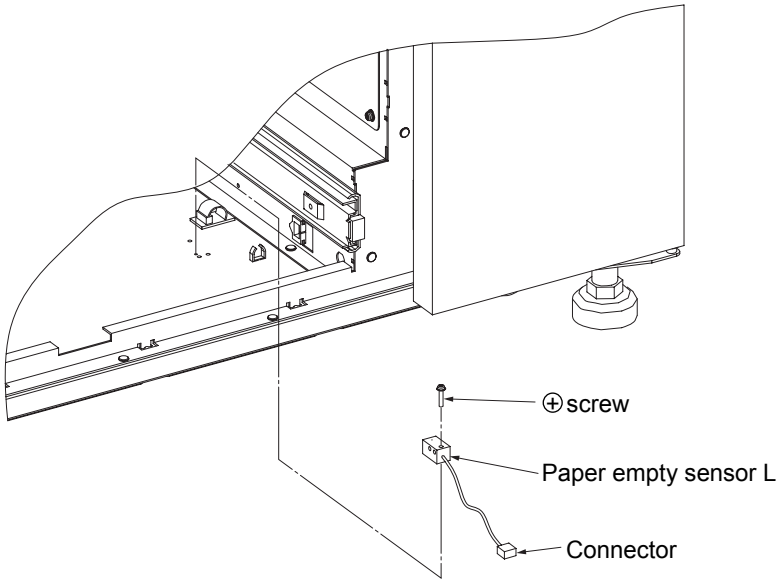


Fig. 6-124. Removal of the paper empty sensor L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.7 Removal of VP Cover Switch

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (R) ass'y (see section 3.4.1).
2. Remove the two plus screws and the switch holder.
3. Disconnect the four connectors.
4. Remove the VP cover switch.

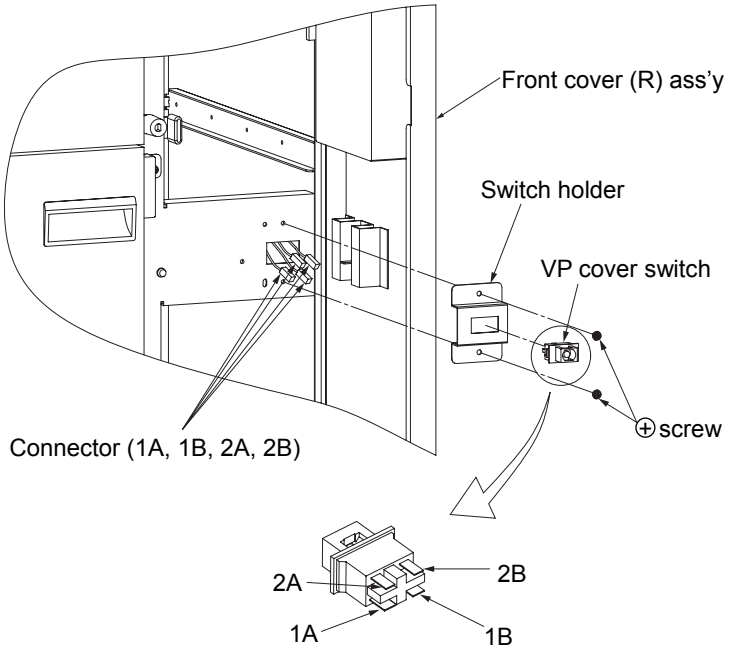


Fig. 6-125. Removal of the VP cover switch

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.8 Removal of Basket Sensor U/L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.
Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (see section 3.4.1).
2. Remove the drawer ass'y (see section 6.7.1).
3. Disconnect the two connectors.
4. Remove the two basket sensors.

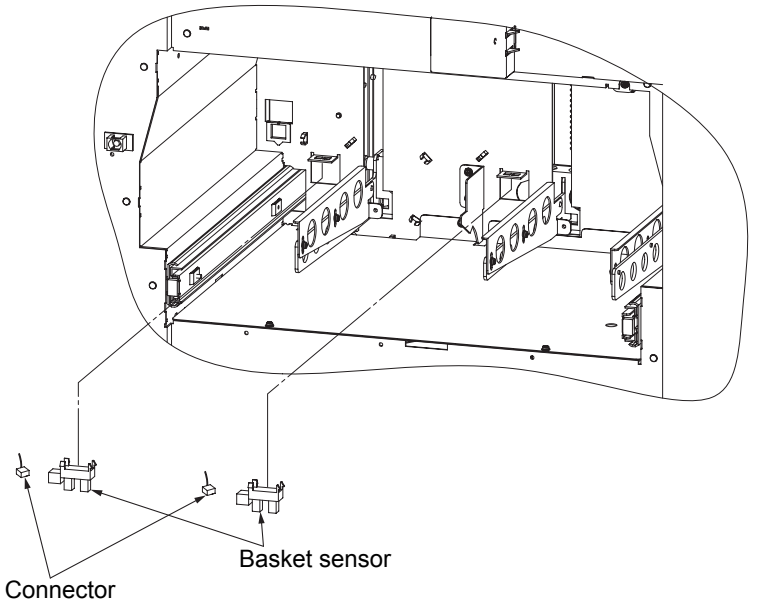


Fig. 6-126. Removal of the basket sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Mount the basket sensor as shown in the above figure (Fig. 6-126. Removal of the basket sensor U/L).

6.8.9 Removal of Front Cover Sensor U/L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Note: Remove the lower part in the same manner.
Disconnect the container stacker ass'y 2 from the container stacker ass'y 1 or the finisher before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y and the side cover ass'y (see section 3.4.2).
2. Open the front cover (L) ass'y (see section 3.4.1).
3. Disconnect the four connectors.
4. Remove the front cover sensor.

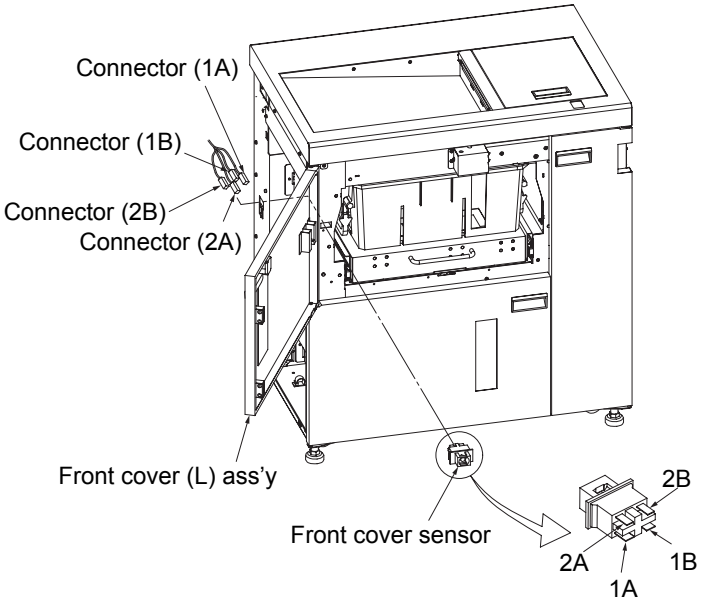


Fig. 6-127. Removal of the front cover sensor U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.10 Removal of Solenoid and Extension Springs [1] [2] U/L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver, precision screwdriver

[Disassembling procedure]
1. Remove the front cover (L) ass'y (upper) and the front cover (R) ass'y (see section 3.4.1).
2. Remove the three plus screws and the door lock ass'y.
3. Disconnect the connector.
4. Remove the four plus screws and the solenoid.
5. Remove the extension springs [1] and [2].

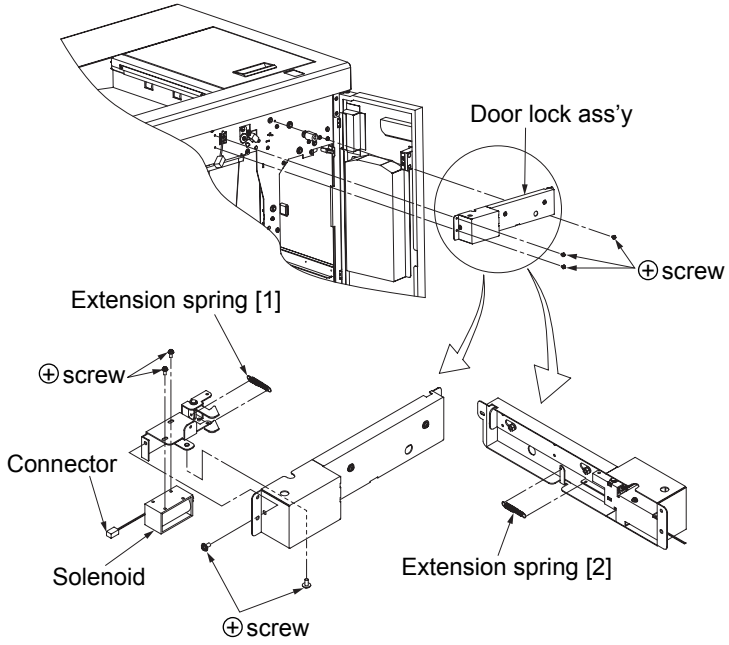


Fig. 6-128. Removal of the solenoid and the extension springs [1] and [2]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.11 Removal of RB301 Ass'y

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y (see section 3.4.2).
2. Disconnect the two connectors.
3. Remove the RB301 ass'y.

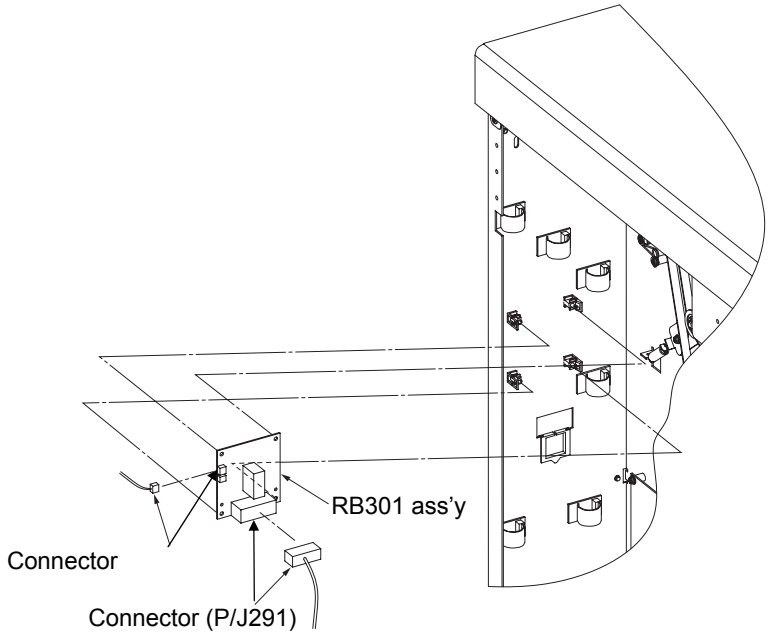


Fig. 6-129. Removal of the RB301 ass'y

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.12 Removal of Door Hinge Bushing

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (R) ass'y and the front cover (L) ass'y (upper and lower) (see section 3.4.1).
2. Remove the ten plus screws, five hinge base assemblies, front cover (R) ass'y and front cover (L) ass'y (upper and lower).
3. Remove the six door hinge bushings.

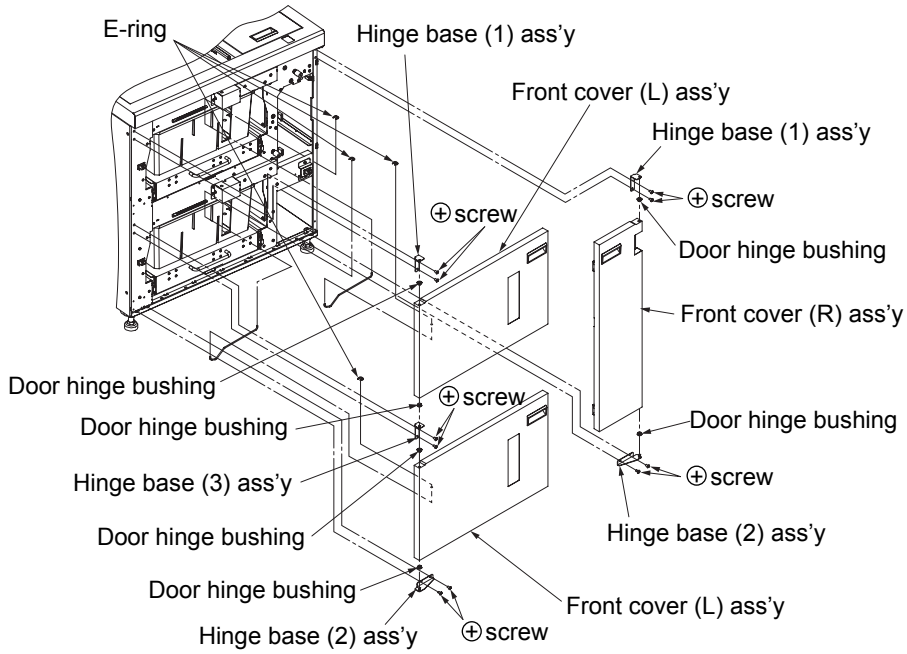


Fig. 6-130. Removal of the door hinge bushing

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.13 Removal of Free Stop Hinges [1], [2] and [3]

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Remove the rear cover ass'y and the T cover ass'y (see section 3.4.2).
2. Remove the twelve plus screws [1] and four plus screws [2]. Then remove the free stop hinge [1], two free stop hinges [2], free stop hinge [3] and two washers.

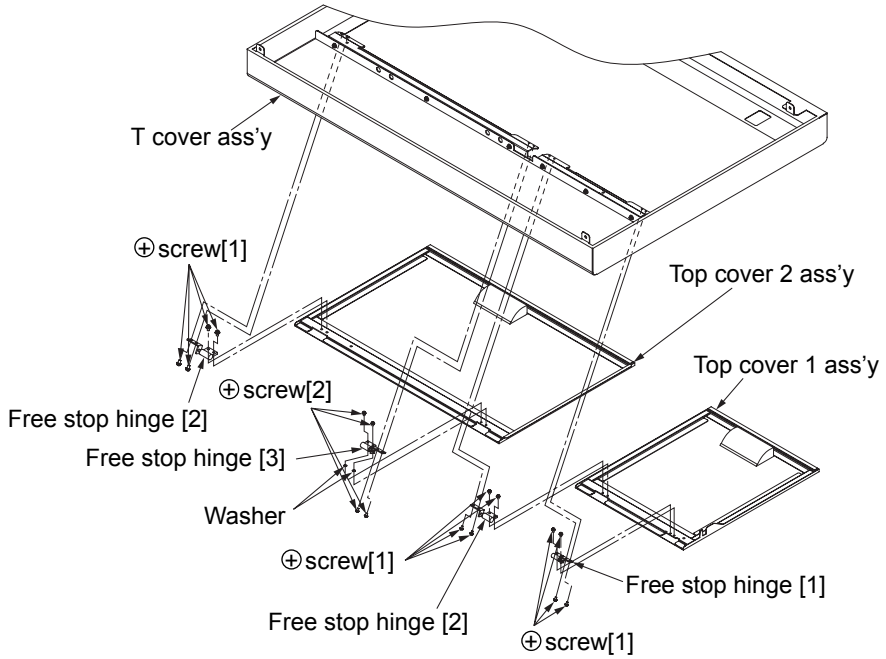


Fig. 6-131. Removal of the free stop hinges [1], [2] and [3]

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.14 Removal of Table U/L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (see section 3.4.1).
2. Pull out the drawer ass'y.
3. Remove the table.

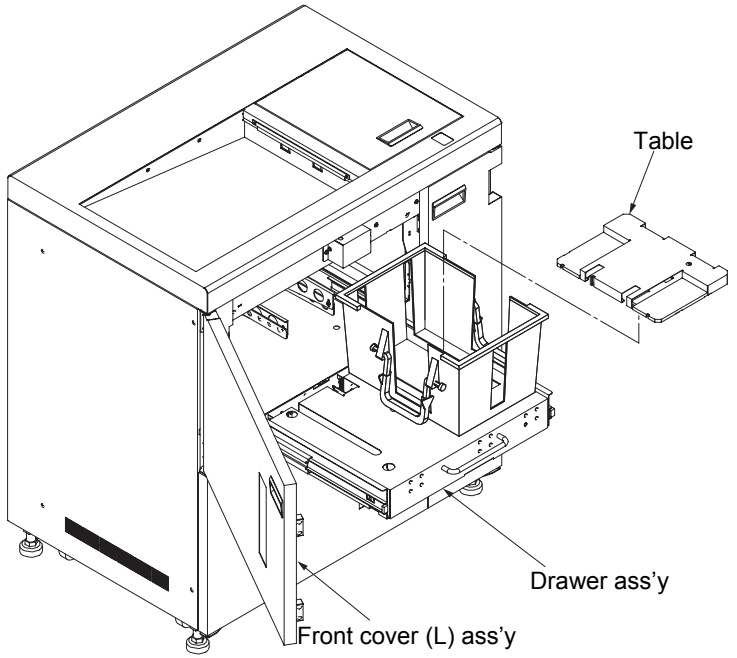


Fig. 6-132. Removal of the table U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.15 Removal of Basket U/L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Note: Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (see section 3.4.1).
2. Pull out the drawer ass'y.
3. Remove the basket.

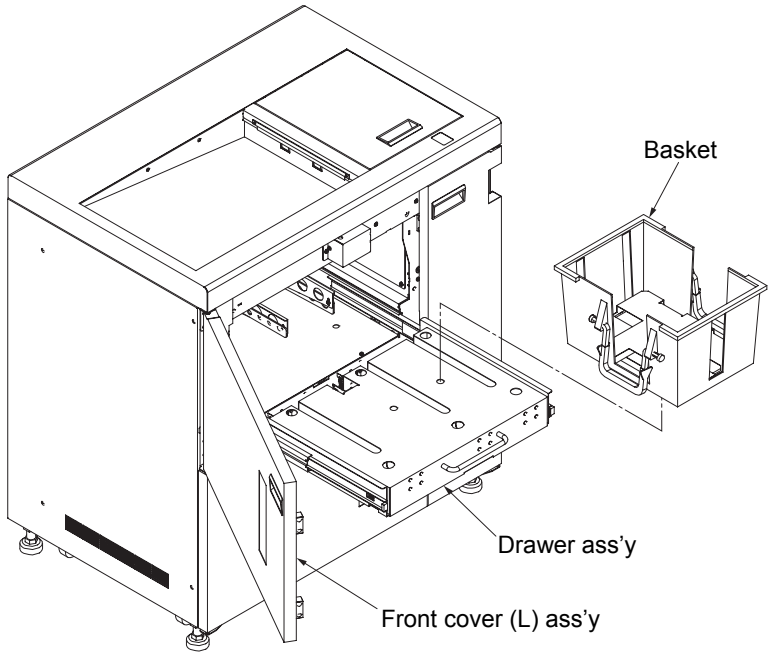


Fig. 6-133. Removal of the basket U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

6.8.16 Removal of Slide Rail [1]

6.8.16 (1) Removal of Slide Rail [1] (lower)

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (lower) and the front cover (R) ass'y (see section 3.4.1).
2. Remove the rear cover ass'y (see section 3.4.2).
3. Remove the drawer ass'y (lower) (see section 6.7.1).
4. Pushing the protrusion, pull up the slide rail [1] to remove the "D" portion from the square hole. Press the "E" portion in the "F" direction to remove from the square hole. Remove the slide rail [1].

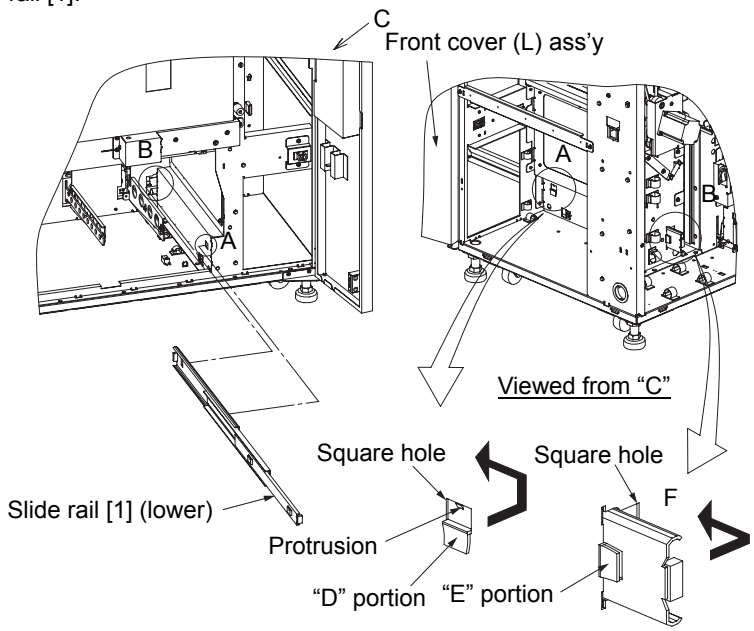


Fig. 6-134. Removal of the slide rail [1] (lower)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that "D" and "E" portions are securely fitted in the square holes.

6.8.16 (2) Removal of Slide Rail [1] (upper)

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Tools required: Phillips screwdriver, flat-blade screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (upper) and the front cover (R) ass'y (see section 3.4.1).
2. Remove the rear cover ass'y (see section 3.4.2).
3. Remove the drawer ass'y (upper) (see section 6.7.1).
4. Remove the two minus screws [1] and the L paper guide B2 ass'y.
5. Remove the minus screw [2] and the guide spring
6. Remove the two minus screws [3], L paper guide B1 ass'y and L paper guide A ass'y.
7. Disconnect the connector of the paper path sensor (lower) (see section 6.3.3 (2)).
8. Remove the motor holder L ass'y (see section 6.3.8).
9. Remove the six plus screws and the U paper guide B ass'y.
10. Remove the slide rail [1] (upper) (see section 6.8.16 (1)).

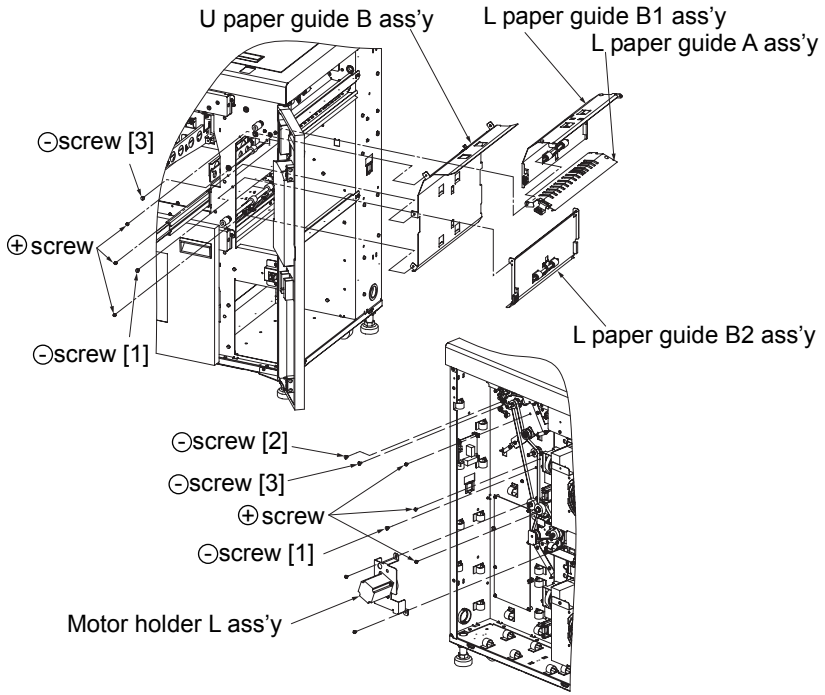


Fig. 6-135. Removal of the slide rail [1] (upper)

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that "A" and "B" portions are securely fitted in the square holes.

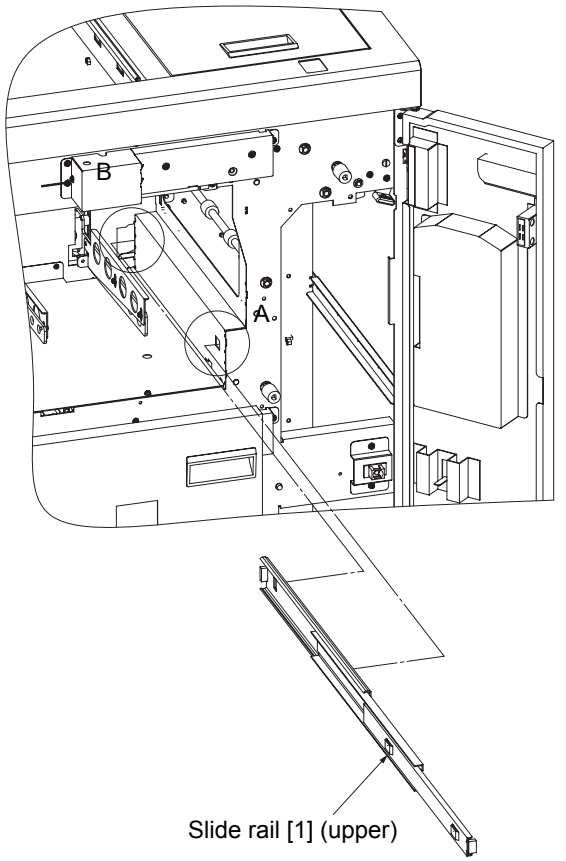


Fig. 6-136. Removal of the slide rail [1] (upper)

6.8.17 Removal of Slide Rail [2] U/L

WARNING: Move the table down to the lowermost position and turn off the power switch before maintenance.

Note: Disconnect the container stacker ass'y 2 from the container stacker ass'y 1 or the finisher before maintenance.
Remove the lower part in the same manner.

Tools required: Phillips screwdriver

[Disassembling procedure]
1. Open the front cover (L) ass'y (see section 3.4.1).
2. Remove the rear cover ass'y and the side cover ass'y (see section 3.4.2).
3. Remove the drawer ass'y (see section 6.7.1).
4. Pushing the protrusion, pull up the slide rail [2] to remove the "D" portion from the square hole. Press the "E" portion in the "F" direction to remove from the square hole. Remove the slide rail [2].

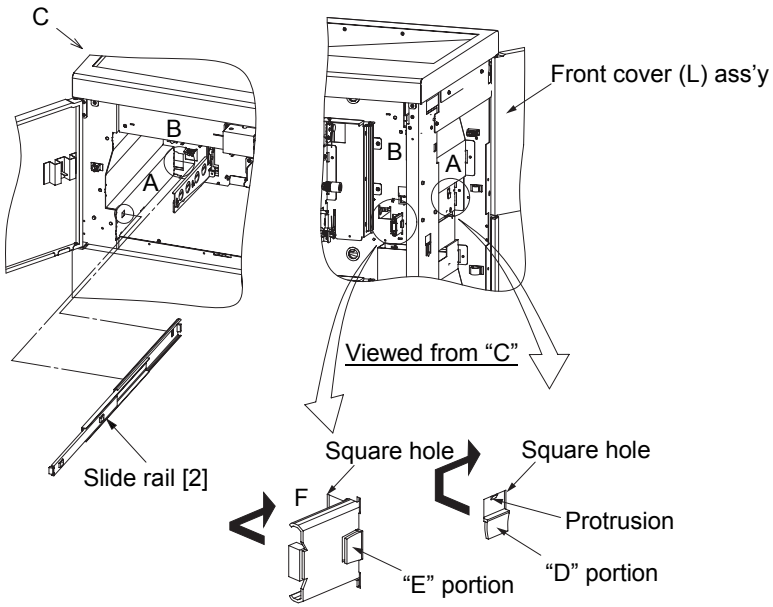


Fig. 6-137. Removal of the slide rail [2] U/L

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

[Check]
Check that "D" and "E" portions are securely fitted in the square holes.

6.8.18 Removal of Guide Spring

WARNING: Turn off the power switch before maintenance.

Tools required: Phillips screwdriver, flat-blade screwdriver

[Disassembling procedure]
1. Open the front cover (R) ass'y (see section 3.4.1).
2. Remove the rear cover ass'y (see section 3.4.2).
3. Open the L paper guide A ass'y in the "A" direction.
4. Remove the minus screw and the plus screw, then remove the washer and the guide spring.

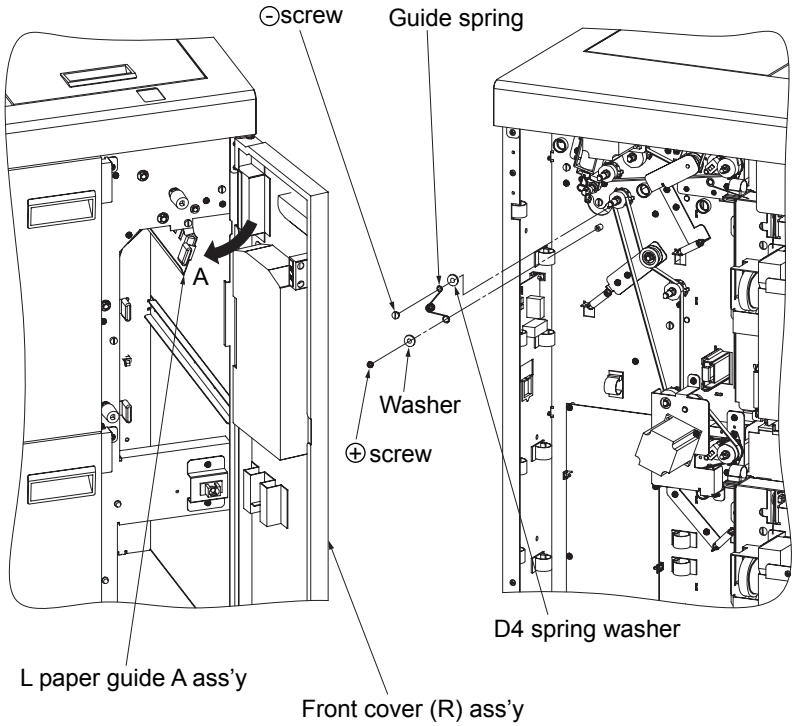


Fig. 6-138. Removal of the guide spring

[Assembling procedure]
Perform the steps of disassembly in the reverse order.

Chapter7. Handling of Maintenance Panel

7.1. Outline

Refer to Engine Maintenance Manual for specified below.

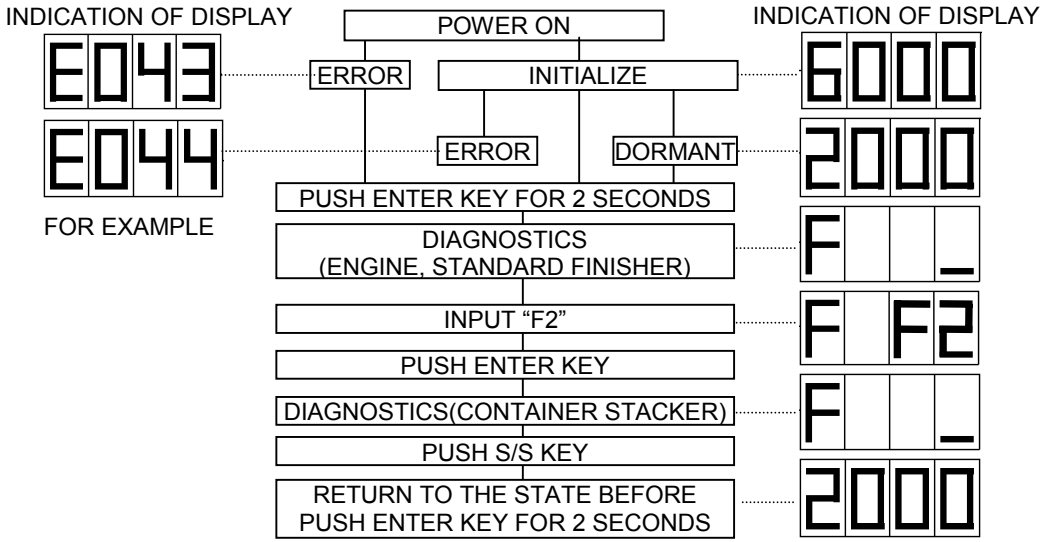
Engine Maintenance Manual 8.1. Outline
Engine Maintenance Manual 8.2. Installation Position and Functions of Maintenance Panel
Engine Maintenance Manual 8.3. Indication of Maintenance Panel

7.2. Diagnostics

7.2.1. Outline of Diagnostics

At the time of obstacle outbreak or component exchange, this routine carries out gesture check of motor and sensor.

7.2.2. Operation Procedure



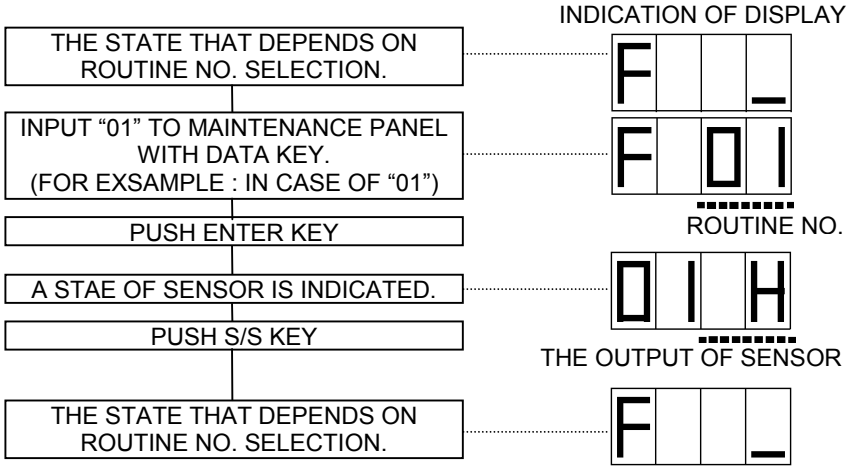
Refer to Diagnostics Routine List

Item	Routine No.	Contents	Remarks
Sensor Test	"00 to 7F"	Read a state of sensor and indicate it.	
Driver Test	"80 to BF"	Drive a motor/solenoid and perform rotation check.	

7.2.3. Sensor Test

These routines are used, when you confirm whether the operation of selected sensor is normal or abnormal.

Refer to Diagnostics Routine List for Routine No. of each sensor.



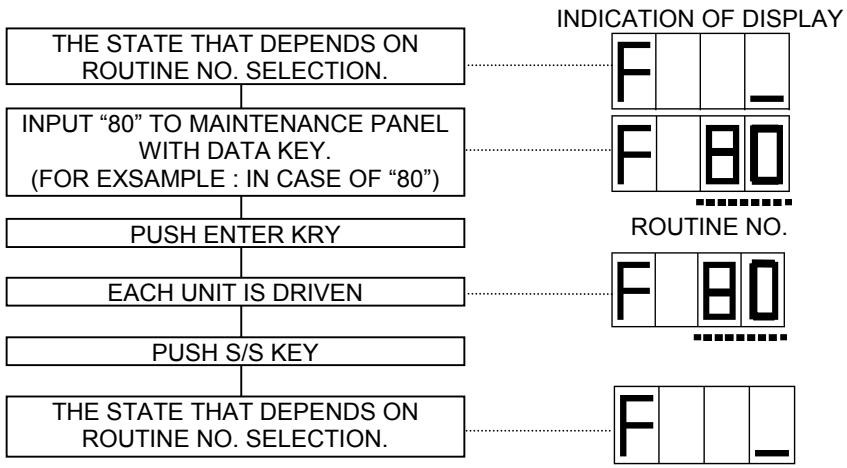
Explanation of details

Routine No.	Indication contents	Display
"00","01","0F" "03" to "05" "07" to "09" "0B" to "0D" "10" to "1F" "20" to "2F" "30" to "3F" "40" to "46" "48" to "4E" "50" to "5D"	The output of sensor indicates ”H” or “L”. Refer to Details of Sensor Test about polarity of each sensor.	0 1 H Output of sensor is “H”. 0 1 L Output of sensor is “L”.

7.2.4 Drive Test

These routines are used, when you confirm whether the operation of selected motor and solenoid are normal or abnormal.

Refer to Diagnostics Routine List for Routine No. of each motor and solenoid.



Explanation of details

Routine No.	Continuous Drive Mode	Automatic Stop Mode
"81" to "83", "85" to "87", "91" to "93", "95" to "97"	After initializing from you push enter key, each motor is driven LT paper jogging till you push S/S key.	After initializing from you push enter key, each motor is driven LT paper jogging 10 times.
"80","84", "90","94","98"	Each motor is driven continually after you push enter key till you push S/S key.	Each motor is driven after you push enter key. And each motor stops in 10 seconds later automatically.
"89","8A", "99","9A"	Each Table motor is driven continually after you push enter key till you push S/S key.	Each motor is driven after you push enter key. And each Table motor stops after it goes one time automatically.
"8D", "A0" to "A3", "A5","A6", "A8" to "AB", "AD","AE"	Each solenoid is turned on, off in uniformity interval after you push enter key till you push S/S key.	Each solenoid is turned on, off in uniformity interval 10times. And each solenoid stops automatically.

Notes : Refer to Engine Maintenance Manual 8.4.6.1. for “Continuous Drive Mode”, “Automatic Stop Mode”.

Diagnostics Routine List

Item	No	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Sensor Test	0	Stack 500 sensor U	Stack 1000 sensor U		Stack full sensor U	Stack 500 sensor L	Stack 1000 sensor L		Stack full sensor L	Stack 500 sensor U	Stack 1000 sensor U		Stack full sensor U	Stack 500 sensor L	Stack 1000 sensor L		Stack full sensor L
	1	F jogger home sensor U	R jogger home sensor U	Stopper home sensor U	Table over load sensor U	Table low limit sensor U	Table height sensor U	Table upper limit sensor U	Jam sensor U	F jogger home sensor U	R jogger home sensor U	Stopper home sensor U	Table over load sensor U	Table low limit sensor U	Table height sensor U	Table upper limit sensor U	Jam sensor U
	2	F jogger home sensor L	R jogger home sensor L	Stopper home sensor L	Table over load sensor L	Table low limit sensor L	Table height sensor L	Table upper limit sensor L	Jam sensor L	F jogger home sensor L	R jogger home sensor L	Stopper home sensor L	Table over load sensor L	Table low limit sensor L	Table height sensor L	Table upper limit sensor L	Jam sensor L
	3	L basket sensor U	L basket sensor L	S basket sensor U	S basket sensor L					L basket sensor U	L basket sensor L	S basket sensor U	S basket sensor L				
	4	Paper path sensor 1	Paper path sensor 2	Paper path sensor 3	Paper path sensor 4	Paper path sensor 5	Paper path sensor 6	Paper path sensor 7		Paper path sensor 1	Paper path sensor 2	Paper path sensor 3	Paper path sensor 4	Paper path sensor 5	Paper path sensor 6	Paper path sensor 7	
	5	Panel SW U	Panel SW L	Paper empty sensor U	Paper empty sensor L	Top cover SW	VP cover SW	Front cover SW U	Front cover SW L	Panel SW U	Panel SW L	Paper empty sensor U	Paper empty sensor L	Top cover SW	VP cover SW	Front cover SW U	Front cover SW L
	6																
	7																
Driver Test	8	Feed motor U	F jogger motor U	R jogger motor U	Stopper motor U	Feed motor L	F jogger motor L	R jogger motor L	Stopper motor L		Table motor U	Table motor L			Decurler solenoid		
	9	Feed motor U	F jogger motor U	R jogger motor U	Stopper motor U	Feed motor L	F jogger motor L	R jogger motor L	Stopper motor L	Option feed motor	Table motor U	Table motor L					
	A	Drawer lock solenoid U	Drawer lock solenoid L	Offset solenoid U	Offset solenoid L		Additional gate solenoid	U-L gate solenoid		Drawer lock solenoid U	Drawer lock solenoid L	Offset solenoid U	Offset solenoid L		Additional gate solenoid	U-L gate solenoid	
	B																

Stacker 5,6 Stacker 7,8

Details of Sensor Test

Routine No.	Sensor Name	Details
00	Stack 500 sensor U	“H” is displayed when 500 or more sheets are stacked in the Stacker 6.
01	Stack 1000 sensor U	“H” is displayed when 1000 or more sheets are stacked in the Stacker 6.
02		
03	Stack full sensor U	“H” is displayed when Stacker 6 is full.
04	Stack 500 sensor L	“H” is displayed when 500 or more sheets are stacked in the Stacker 5.
05	Stack 1000 sensor L	“H” is displayed when 1000 or more sheets are stacked in the Stacker 5.
06		
07	Stack full sensor L	“H” is displayed when Stacker 5 is full.
08	Stack 500 sensor U	“H” is displayed when 500 or more sheets are stacked in the Stacker 8.
09	Stack 1000 sensor U	“H” is displayed when 1000 or more sheets are stacked in the Stacker 8.
0A		
0B	Stack full sensor U	“H” is displayed when Stacker 8 is full.
0C	Stack 500 sensor L	“H” is displayed when 500 or more sheets are stacked in the Stacker 7.
0D	Stack 1000 sensor L	“H” is displayed when 1000 or more sheets are stacked in the Stacker 7.
0E		
0F	Stack full sensor L	“H” is displayed when Stacker 7 is full.
10	F jogger home sensor U	“H” is displayed when F jogger of Stacker 6 is in the home position.
11	R jogger home sensor U	“H” is displayed when R jogger of Stacker 6 is in the home position.
12	Stopper home sensor U	“H” is displayed when Stopper of Stacker 6 is in the home position.
13	Table over load sensor U	“H” is displayed while the lower detection mechanism of Lift unit of Stacker 6 is operating.
14	Table low limit sensor U	“H” is displayed when Table (Lift) of Stacker 6 is in the lower limit position.
15	Table height sensor U	“H” is displayed when Table (Lift) of Stacker 6 is in the highest position.
16	Table upper limit sensor U	“H” is displayed when Table (Lift) of Stacker 6 is in the upper limit position.
17	Jam sensor U	“H” is displayed when paper is on the Jam sensor of Stacker 6.
18	F jogger home sensor U	“H” is displayed when F jogger of Stacker 8 is in the home position.
19	R jogger home sensor U	“H” is displayed when R jogger of Stacker 8 is in the home position.
1A	Stopper home sensor U	“H” is displayed when Stopper of Stacker 8 is in the home position.
1B	Table over load sensor U	“H” is displayed while the lower detection mechanism of Lift unit of Stacker 8 is operating.
1C	Table low limit sensor U	“H” is displayed when Table (Lift) of Stacker 8 is in the lower limit position.
1D	Table height sensor U	“H” is displayed when Table (Lift) of Stacker 8 is in the highest position.
1E	Table upper limit sensor U	“H” is displayed when Table (Lift) of Stacker 8 is in the upper limit position.
1F	Jam sensor U	“H” is displayed when paper is on the Jam sensor of Stacker 8.

Routine No.	Sensor Name	Details
20	F jogger home sensor L	“H” is displayed when F jogger of Stacker 5 is in the home position.
21	R jogger home sensor L	“H” is displayed when R jogger of Stacker 5 is in the home position.
22	Stopper home sensor L	“H” is displayed when Stopper of Stacker 5 is in the home position.
23	Table over load sensor L	“H” is displayed while the lower detection mechanism of Lift unit of Stacker 5 is operating.
24	Table low limit sensor L	“H” is displayed when Table (Lift) of Stacker 5 is in the lower limit position.
25	Table height sensor L	“H” is displayed when Table (Lift) of Stacker 5 is in the highest position.
26	Table upper limit sensor L	“H” is displayed when Table (Lift) of Stacker 5 is in the upper limit position.
27	Jam sensor L	“H” is displayed when paper is on the Jam sensor of Stacker 5.
28	F jogger home sensor L	“H” is displayed when F jogger of Stacker 7 is in the home position.
29	R jogger home sensor L	“H” is displayed when R jogger of Stacker 7 is in the home position.
2A	Stopper home sensor L	“H” is displayed when Stopper of Stacker 7 is in the home position.
2B	Table over load sensor L	“H” is displayed while the lower detection mechanism of Lift unit of Stacker 7 is operating.
2C	Table low limit sensor L	“H” is displayed when Table (Lift) of Stacker 7 is in the lower limit position.
2D	Table height sensor L	“H” is displayed when Table (Lift) of Stacker 7 is in the highest position.
2E	Table upper limit sensor L	“H” is displayed when Table (Lift) of Stacker 7 is in the upper limit position.
2F	Jam sensor L	“H” is displayed when paper is on the Jam sensor of Stacker 7.
30	L basket sensor U	“H” is displayed when large basket is setting in the Stacker 6.
31	L basket sensor L	“H” is displayed when large basket is setting in the Stacker 5.
32	S basket sensor U	“H” is displayed when small basket is setting in the Stacker 6.
33	S basket sensor L	“H” is displayed when small basket is setting in the Stacker 5.
34		
35		
36		
37		
38	L basket sensor U	“H” is displayed when large basket is setting in the Stacker 8.
39	L basket sensor L	“H” is displayed when large basket is setting in the Stacker 7.
3A	S basket sensor U	“H” is displayed when small basket is setting in the Stacker 8.
3B	S basket sensor L	“H” is displayed when small basket is setting in the Stacker 7.
3C		
3D		
3E		
3F		

Routine No.	Sensor Name	Details
40	Paper path sensor 1	“L” is displayed when paper is on the Paper path sensor 1 of Container Stacker.
41	Paper path sensor 2	“L” is displayed when paper is on the Paper path sensor 2 of Container Stacker.
42	Paper path sensor 3	“L” is displayed when paper is on the Paper path sensor 3 of Container Stacker.
43	Paper path sensor 4	“L” is displayed when paper is on the Paper path sensor 4 of Container Stacker.
44	Paper path sensor 5	“L” is displayed when paper is on the Paper path sensor 5 of Container Stacker.
45	Paper path sensor 6	“L” is displayed when paper is on the Paper path sensor 6 of Container Stacker.
46	Paper path sensor 7	“L” is displayed when paper is on the Paper path sensor 7 of Container Stacker.
47		
48	Paper path sensor 1	“L” is displayed when paper is on the Paper path sensor 1 of add-on Container Stacker.
49	Paper path sensor 2	“L” is displayed when paper is on the Paper path sensor 2 of add-on Container Stacker.
4A	Paper path sensor 3	“L” is displayed when paper is on the Paper path sensor 3 of add-on Container Stacker.
4B	Paper path sensor 4	“L” is displayed when paper is on the Paper path sensor 4 of add-on Container Stacker.
4C	Paper path sensor 5	“L” is displayed when paper is on the Paper path sensor 5 of add-on Container Stacker.
4D	Paper path sensor 6	“L” is displayed when paper is on the Paper path sensor 6 of add-on Container Stacker.
4E	Paper path sensor 7	“L” is displayed when paper is on the Paper path sensor 7 of add-on Container Stacker.
4F		
50	Panel SW U	“L” is displayed when Panel SW of Stacker 6 is pushed.
51	Panel SW L	“L” is displayed when Panel SW of Stacker 5 is pushed.
52	Paper empty sensor U	“H” is displayed when paper is empty in the basket of Stacker 6.
53	Paper empty sensor L	“H” is displayed when paper is empty in the basket of Stacker 5.
54	Top cover SW	“L” is displayed when Top cover of Container Stacker is open.
55	VP cover SW	“L” is displayed when Front cover (R) of Container Stacker is open.
56	Front cover SW U	“L” is displayed when Front cover of Stacker 6 is open.
57	Front cover SW L	“L” is displayed when Front cover of Stacker 5 is open.
58	Panel SW U	“L” is displayed when Panel SW of Stacker 8 is pushed.
59	Panel SW L	“L” is displayed when Panel SW of Stacker 7 is pushed.
5A	Paper empty sensor U	“H” is displayed when paper is empty in the basket of Stacker 8.
5B	Paper empty sensor L	“H” is displayed when paper is empty in the basket of Stacker 7.
5C	Top cover SW	“L” is displayed when Top cover of add-on Container Stacker is open.
5D	VP cover SW	“L” is displayed when Front cover (R) of add-on Container Stacker is open.
5E	Front cover SW U	“L” is displayed when Front cover of Stacker 8 is open.
5F	Front cover SW L	“L” is displayed when Front cover of Stacker 7 is open.

7.2.5. Adjustment

The adjustment item of Container Stacker has the three following kinds according to each stacker.

- F jogger position
- R jogger position
- Stopper position

The above-mentioned adjustment items are stored by hex data in the address of RAM on the engine control board CP P/K.

*SV = Standard Value

Address	Purpose	Remarks
95A0H	The F jogger stop position of Container Stacker 6	SV = X'80'
95A1H	The R jogger stop position of Container Stacker 6	SV = X'80'
95A2H	The Stopper stop position of Container Stacker 6	SV = X'80'
95A3H		
95A4H	The F jogger stop position of Container Stacker 5	SV = X'80'
95A5H	The R jogger stop position of Container Stacker 5	SV = X'80'
95A6H	The Stopper stop position of Container Stacker 5	SV = X'80'
95A7H		
95A8H	The F jogger stop position of Container Stacker 8	SV = X'80'
95A9H	The R jogger stop position of Container Stacker 8	SV = X'80'
95AAH	The Stopper stop position of Container Stacker 8	SV = X'80'
95ABH		
95ACH	The F jogger stop position of Container Stacker 7	SV = X'80'
95ADH	The R jogger stop position of Container Stacker 7	SV = X'80'
95AEH	The Stopper stop position of Container Stacker 7	SV = X'80'
95AFH		

Adjustment value

F jogger			R jogger			Stopper		
Data HEX	Adjustment (mm)	Direction	Data HEX	Adjustment (mm)	Direction	Data HEX	Adjustment (mm)	Direction
X(74)	3.00	The direction which expands paper width	X(74)	3.00	The direction which expands paper width	X(74)	3.00	The direction which expands paper length
X(75)	2.75		X(75)	2.75		X(75)	2.75	
X(76)	2.50		X(76)	2.50		X(76)	2.50	
□ □	□ □		□ □	□ □		□ □	□ □	
X(7D)	0.75		X(7D)	0.75		X(7D)	0.75	
X(7E)	0.50		X(7E)	0.50		X(7E)	0.50	
X(7F)	0.25		X(7F)	0.25		X(7F)	0.25	
X(80)	0.00	SV	X(80)	0.00	SV	X(80)	0.00	SV
X(81)	0.25	The direction which narrows paper width	X(81)	0.25	The direction which narrows paper width	X(81)	0.25	The direction which narrows paper length
X(82)	0.50		X(82)	0.50		X(82)	0.50	
X(83)	0.75		X(83)	0.75		X(83)	0.75	
□ □	□ □		□ □	□ □		□ □	□ □	
X(8A)	2.50		X(8A)	2.50		X(8A)	2.50	
X(8B)	2.75		X(8B)	2.75		X(8B)	2.75	
X(8C)	3.00		X(8C)	3.00		X(8C)	3.00	

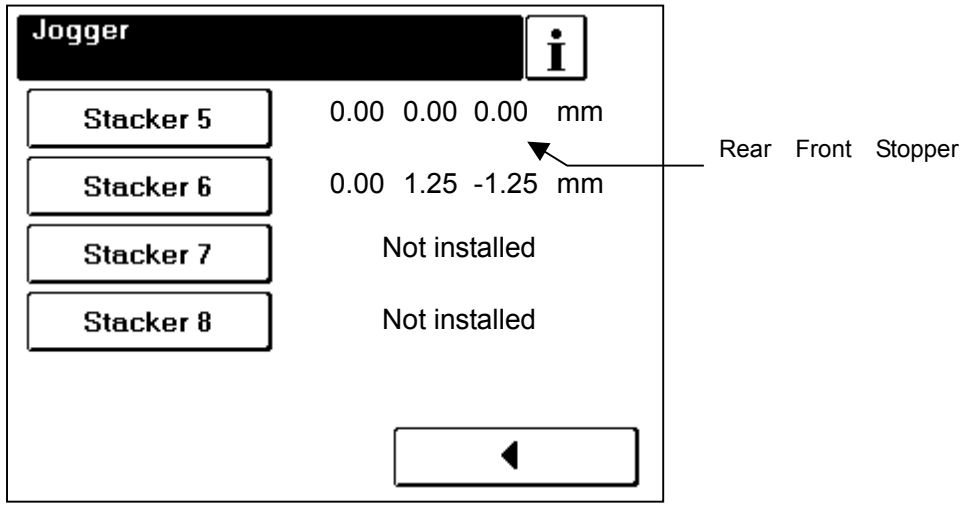
When the value of X(00) to X(73) is inputted, it is rewritten automatically by X(74), and
When the value of X(8D) to X(FF) is inputted, it is rewritten automatically by X(8C).

7.2.5.1 Input method of adjustment value

The Jogger/Stopper adjustment value can be inputted from Maintenance Panel or Operator Control Panel (OCP). Refer to Engine Maintenance Manual 8.4.6.4 “Handling of Maintenance Panel – Assistance / Maintenance 4” for input method from Maintenance Panel.

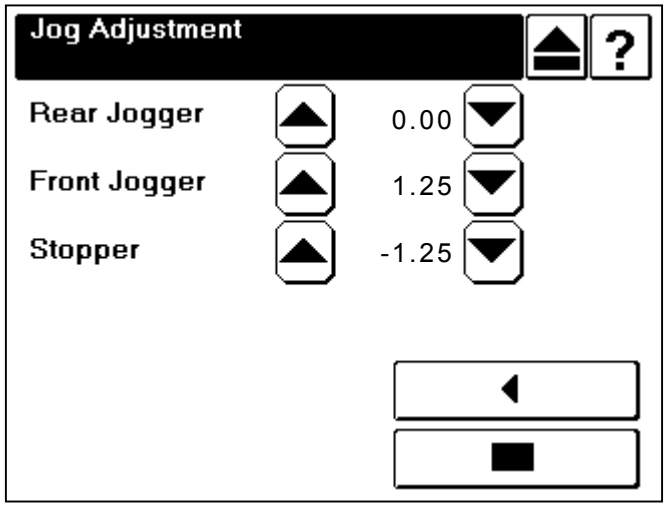
Input method from Operator Control Panel (OCP)

(1) Touch the icon of OCP in order of “Set Up / Service / Configuration / Finisher / Jogger”, and the following screen will be displayed.



(2) Choose the stacker of jogger / stopper which adjusts.

(3) “You can adjust jogger / stopper position by using of “▲”, “▼” key. Each adjustment value can be set up in 0.25 every unit from –3.00 to 3.00.



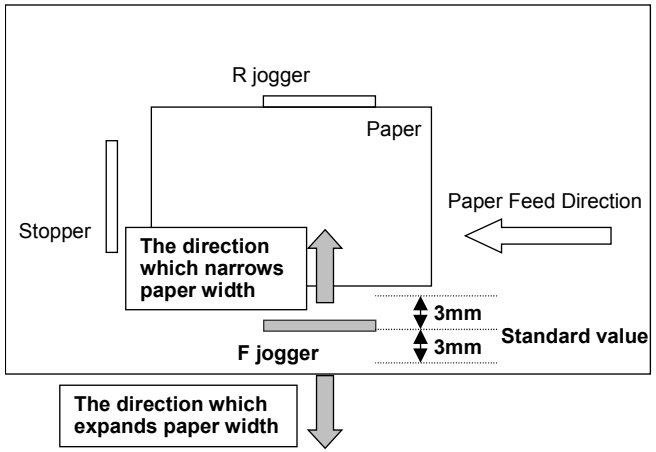
(4) Push “■” key and check adjustment value, after inputting an adjustment value.

7.2.5.2 About jogger / stopper position

(1) About F jogger position

"The direction which expands paper width", "The direction which narrows paper width" are shown below.

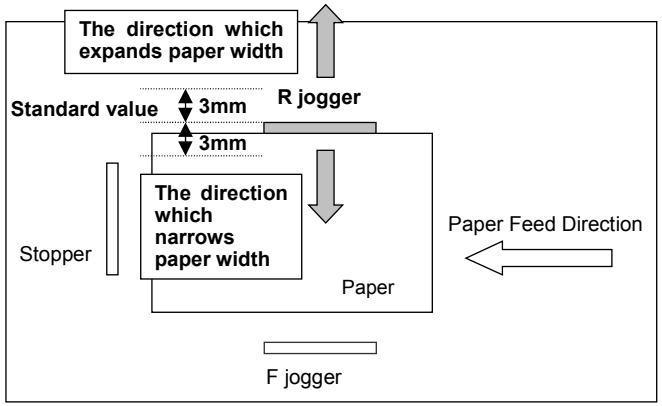
The standard value points out the central position of the domain that can be adjusted.



(2) About R jogger position

"The direction which expands paper width", "The direction which narrows paper width" is shown below.

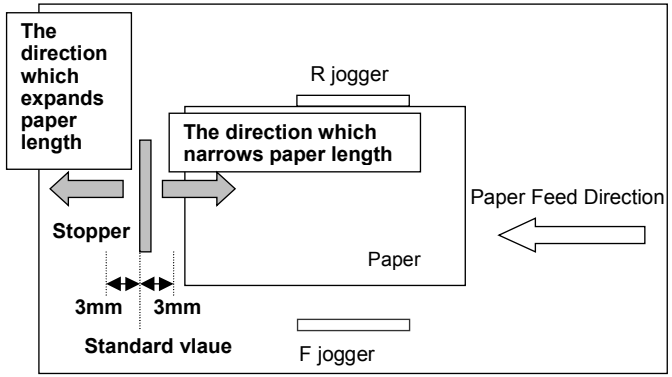
The standard value points out the central position of the domain that can be adjusted.



(3) About Stopper position

"The direction which expands paper width", "The direction which narrows paper width" is shown below.

The standard value points out the central position of the domain that can be adjusted.



(4) About limit of the adjustment range

As for the adjustment range, 3.0mm is a limit from the standard value. When the data exceeding this range is inputted, 3.0mm of a limit is fixed.

7.3. UC Data

The Container Stacker memorizes the jogger stop position adjustment data in the RAM on the engine control board CP P/K.

7.3.1. The count value and the standard value for Preventive Maintenance Parts

These data are shown by a decimal number of 4 digits.

Address	Purpose	Remarks
9630H 9631H	The standard value of the Idler roller Container stacker 6	Value : 9600(k page)
9632H 9633H	The standard value of the Idler roller Container stacker 5	Value : 9600(k page)
9634H 9635H	The used value of the Idler roller Container stacker 6	1000pages / count
9636H 9637H	The used value of the Idler roller Container stacker 5	1000pages / count
9638H 9639H	The used value of the Idler roller Container stacker 6	1page / count (1 to 999)
963AH 963BH	The used value of the Idler roller Container stacker 5	1page / count (1 to 999)
963CH 963DH		
963EH 963FH		
9640H 9641H	The standard value of the Idler roller Container stacker 8	Value : 9600(k page)
9642H 9643H	The standard value of the Idler roller Container stacker 7	Value : 9600(k page)
9644H 9645H	The used value of the Idler roller Container stacker 8	1000pages / count
9646H 9647H	The used value of the Idler roller Container stacker 7	1000pages / count
9648H 9649H	The used value of the Idler roller Container stacker 8	1page / count (1 to 999)
964AH 964BH	The used value of the Idler roller Container stacker 7	1page / count (1 to 999)
964CH 964DH		
964EH 964FH		

Address	Purpose	Remarks
95B0H 95B1H	The standard value of the paddle 1 Container stacker 6	Value : 9600(k page)
95B2H 95B3H	The standard value of the paddle 2 Container stacker 6	Value : 9600(k page)
95B4H 95B5H	The used value of the paddle 1 Container stacker 6	1000pages / count
95B6H 95B7H	The used value of the paddle 2 Container stacker 6	1000pages / count
95B8H 95B9H	The used value of the paddle 1 Container stacker 6	1page / count (1 to 999)
95BAH 95BBH	The used value of the paddle 2 Container stacker 6	1page / count (1 to 999)
95BCH 95BDH	The standard value of the paddle 1 Container stacker 5	Value : 9600(k page)
95BEH 95BFH	The standard value of the paddle 2 Container stacker 5	Value : 9600(k page)
95C0H 95C1H	The used value of the paddle 1 Container stacker 5	1000pages / count
95C2H 95C3H	The used value of the paddle 2 Container stacker 5	1000pages / count
95C4H 95C5H	The used value of the paddle 1 Container stacker 5	1page / count (1 to 999)
95C6H 95C7H	The used value of the paddle 2 Container stacker 5	1page / count (1 to 999)
95C8H 95C9H	The standard value of the paddle 1 Container stacker 8	Value : 9600(k page)
95CAH 95CBH	The standard value of the paddle 2 Container stacker 8	Value : 9600(k page)
95CCH 95CDH	The used value of the paddle 1 Container stacker 8	1000pages / count
95CEH 95CFH	The used value of the paddle 2 Container stacker 8	1000pages / count
95D0H 95D1H	The used value of the paddle 1 Container stacker 8	1page / count (1 to 999)
95D2H 95D3H	The used value of the paddle 2 Container stacker 8	1page / count (1 to 999)
95D4H 95D5H	The standard value of the paddle 1 Container stacker 7	Value : 9600(k page)
95D6H 95D7H	The standard value of the paddle 2 Container stacker 7	Value : 9600(k page)
95D8H 95D9H	The used value of the paddle 1 Container stacker 7	1000pages / count
95DAH 95DBH	The used value of the paddle 2 Container stacker 7	1000pages / count
95DCH 95DDH	The used value of the paddle 1 Container stacker 7	1page / count (1 to 999)
95DEH 95DFH	The used value of the paddle 2 Container stacker 7	1page / count (1 to 999)

7.3.2. Trace Area

The command trace between the Container Stacker and the Engine is logged in the following area.
9300 to 9301 : Trace start address
9302 to 94FF : Trace area
The Engine indicates the trace start address where the next command is logged.
If the Engine logged the trace to 9400 address, the next address (9401) is indicated in 9300 to 9301 addresses. (9300=”01”, 9301=”04”)
When the Engine receives a command and replies status, the Engine logs its command at an address indicates by the trace start address and its status at the next address. The Engine continues this operation whenever it receives a command.
Note : Engine does not logged the status read command etc. and its reply.

Chapter8 Theory of Operation

8.1.Center Cross Section

(1) Container Stacker 1 (including sample tray)

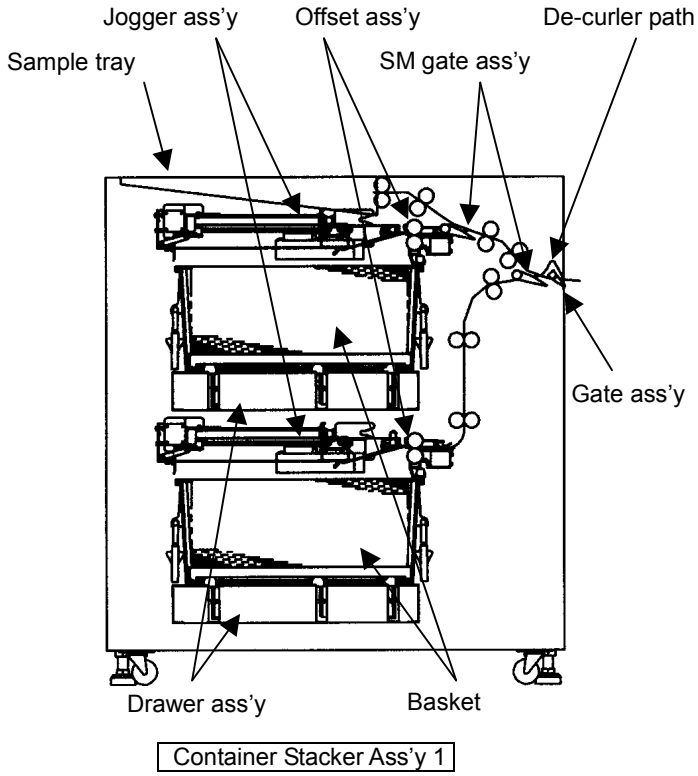


Fig 8-1 View of the Center Cross Section of Container Stacker Ass'y 1

(2)Container Stacker Ass'y 1(including sample tray) + Container Stacker Ass'y 2
(in cluding add-on paper feeder unit)

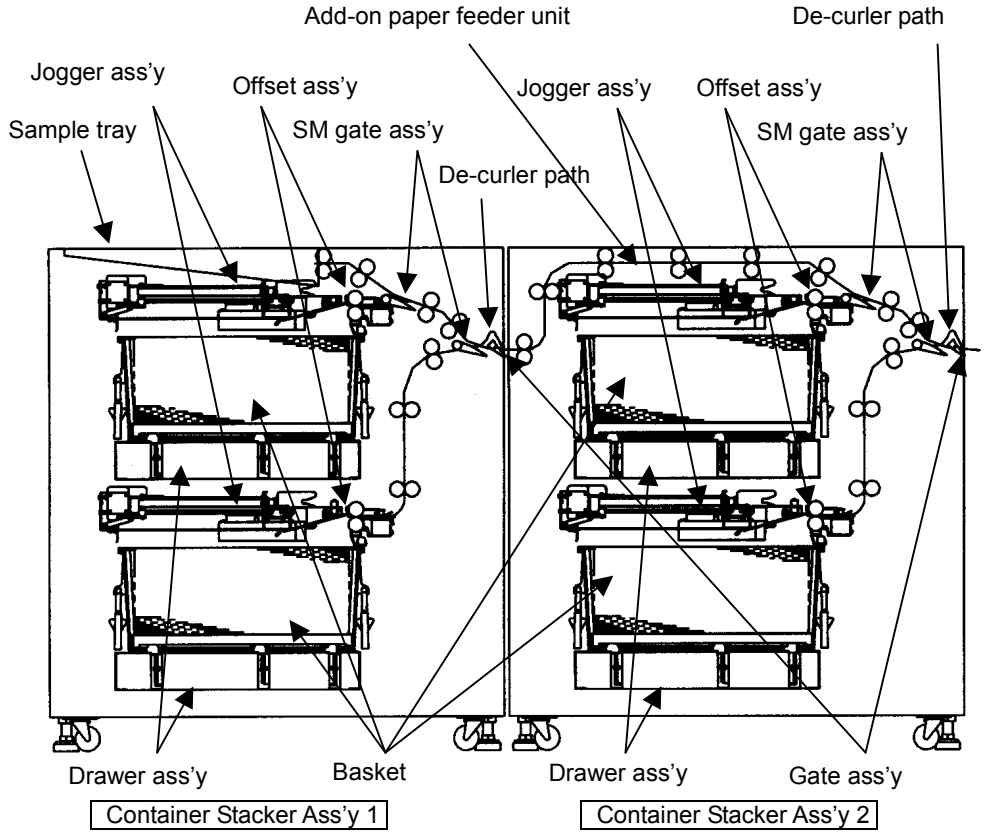


Fig 8-2 View of the Center Cross Section of Container Stacker Ass'y 1 + 2

(3) Container Stacker Ass'y 2 (in cluding add-on paper feeder unit)
+ Standard Finisher

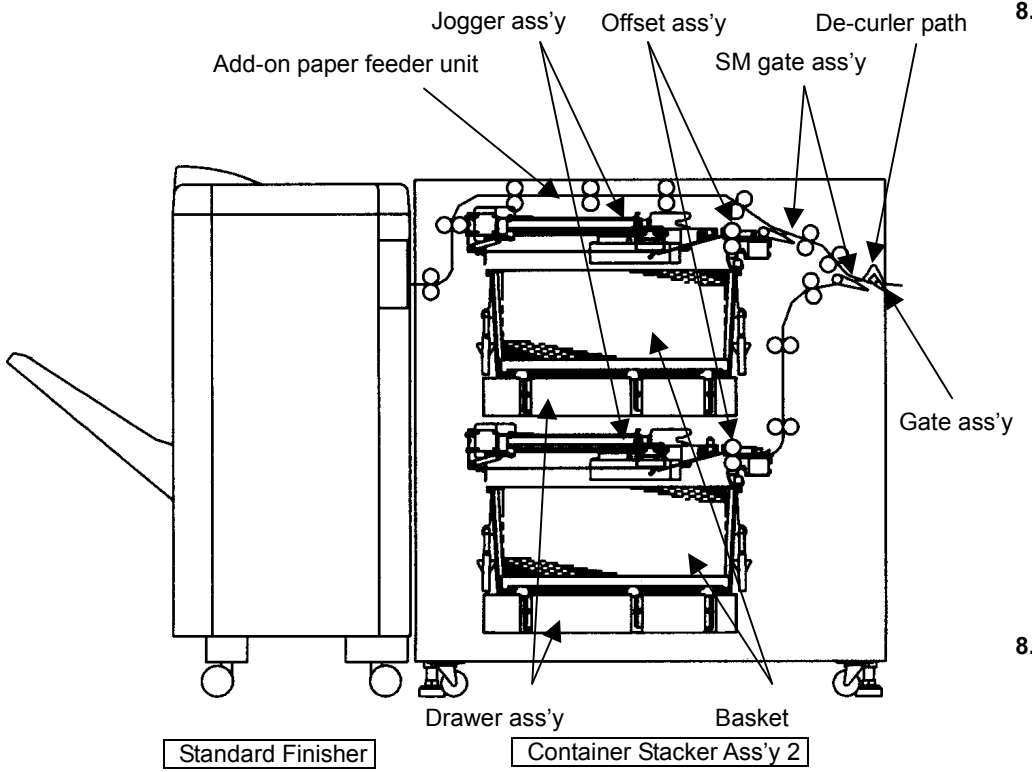


Fig 8-3 View of the Center Cross Section of Container Stacker Ass'y 2
+ Standard Finisher

8.2 Drive System Diagram

8.2.1 Paper Feeder drive

8.2.1 (1) Paper Feeder Unit

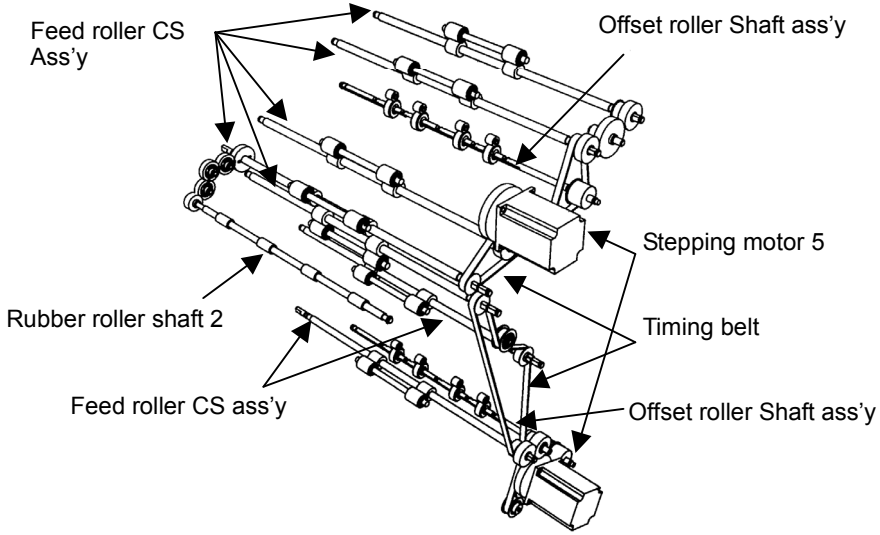


Fig 8-4 Paper Feeder Drive

8.2.1 (2) Add-on Paper Feeder Unit

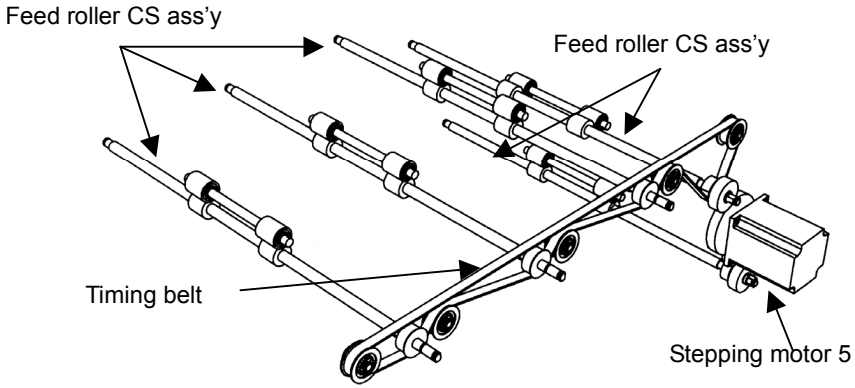


Fig 8-5 Add-on Paper Feeder Drive

8.2.2 Jogger Drive

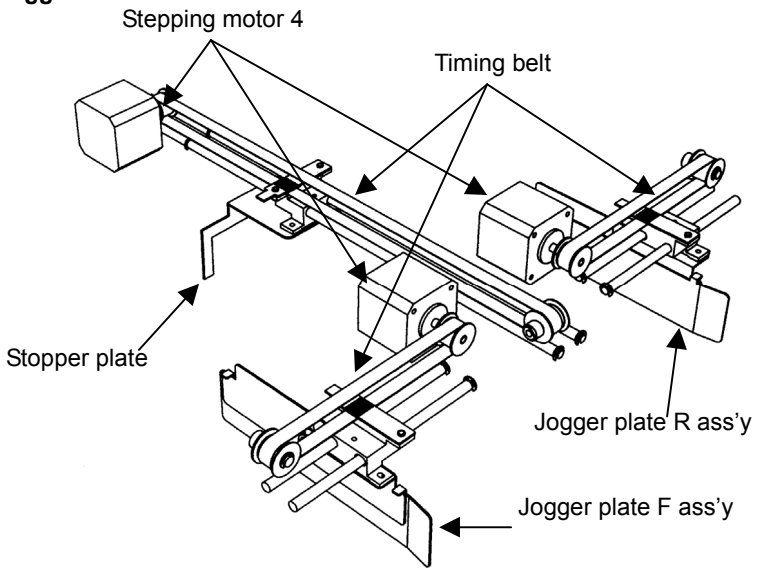


Fig 8-6 Jogger Drive

8.3 Paper Pass

8.3.1 De-curler
8.3.1 (1) Normal Mode
(1) In case of one Container Stacker

(1)-1 In case of the duplex print or the cardboard (28 lbs. or more, 104 g/m^2 or more) print.

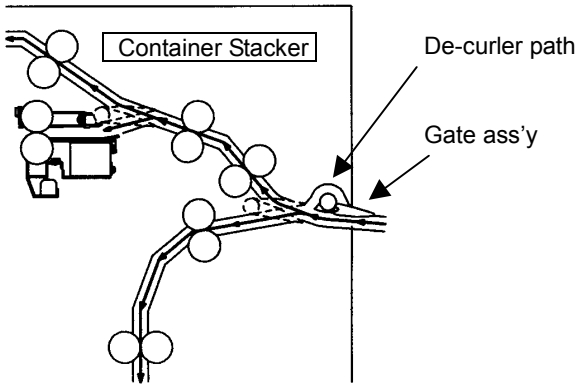


Fig.8-7 De-curler normal mode 1

(1)-2 In case of the print except (1)-1.

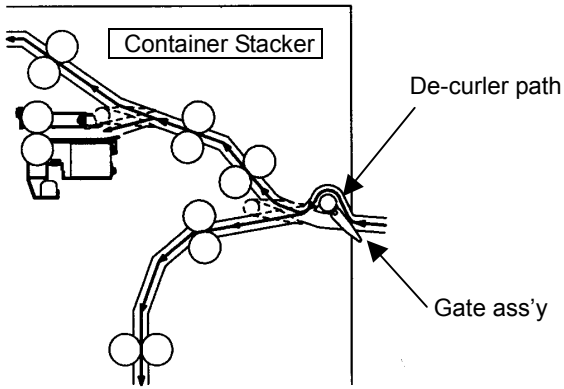


Fig.8-8 De-curler normal mode 2

(2) In case of two Container Stacker

(2)-1 In case of the duplex print or the cardboard (28 lbs. or more, 104 g/m^2 or more) print.

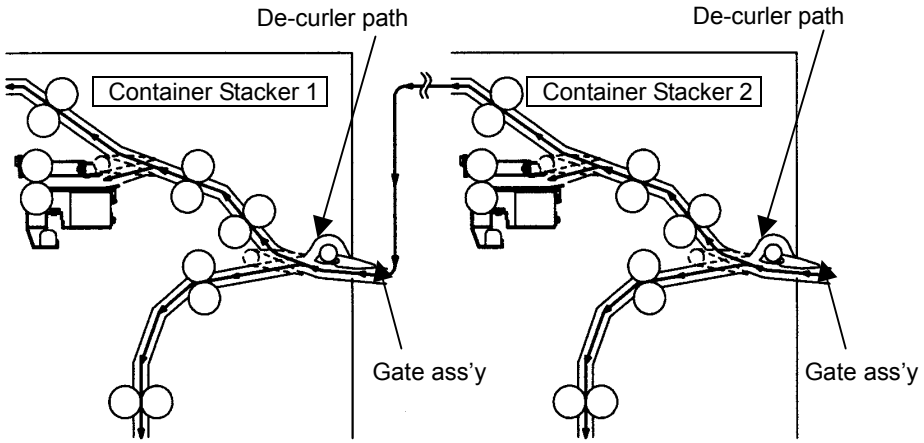


Fig.8-9 De-curler normal mode 3

(2)-2 In case of the print except (2)-1

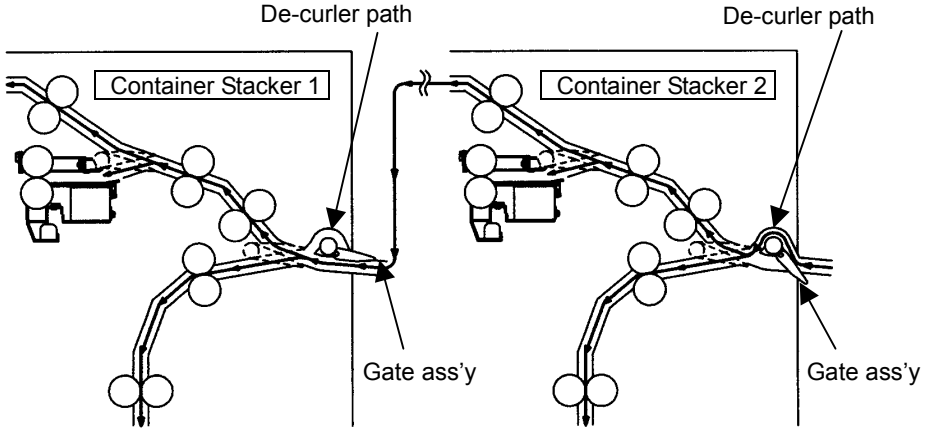


Fig.8-10 De-curler normal mode 4

(3) In case of one Container Stacker + Standard Finisher

The case of (1) and the same.

But, when outputting to Standard Finisher with the simplex print, it doesn't let through De-curler pass.

8.3.1 (2) ON Mode

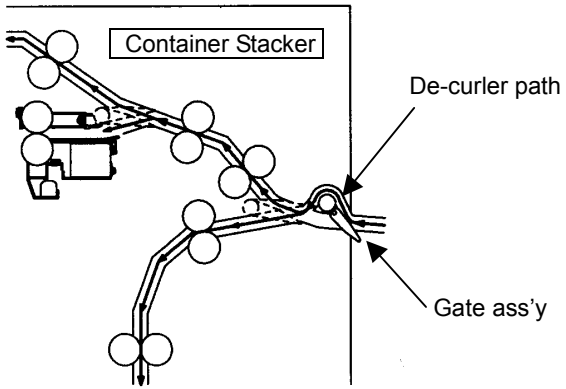


Fig.8-11 De-curler ON mode

8.3.1 (3) OFF Mode

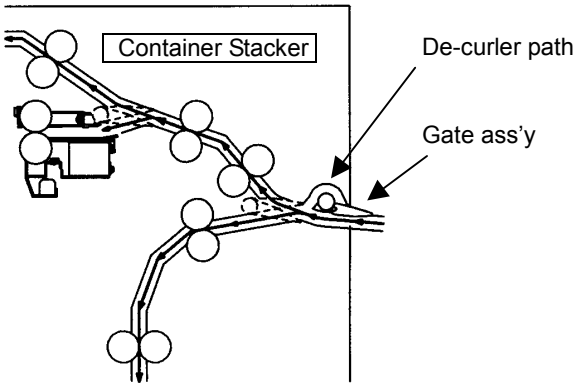


Fig.8-12 De-curler OFF mode

8.4 Function

8.4.1 Offset Mode

A discharged form is sent from the printer to the basket.
There is an offset function which can be discharged by shifting the direction of the progress of the form by 11 mm in Offset ass'y.

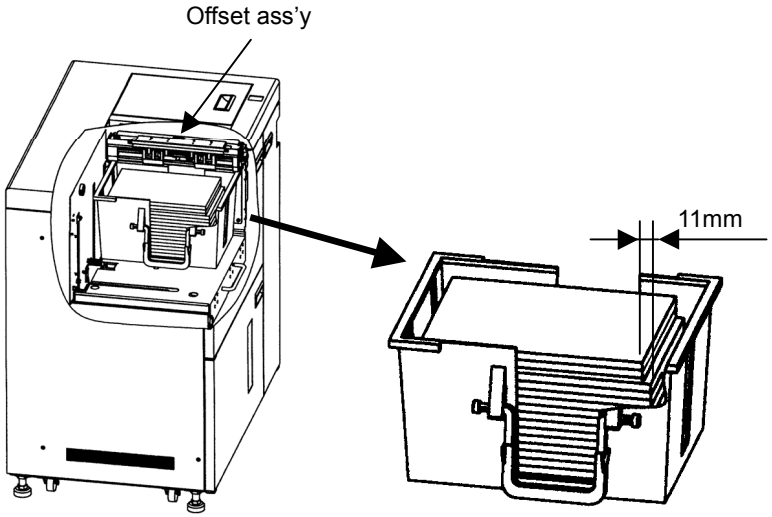


Fig.8-13 Offset mode

(1) Out put a paper to the OP side

As for the operation of Offset ass'y, when the solenoid is OFF, Offset roller shaft is dabbed to the stop housing by the power of spring, and is connected with the pin on the shaft and roller turns to the OP side.

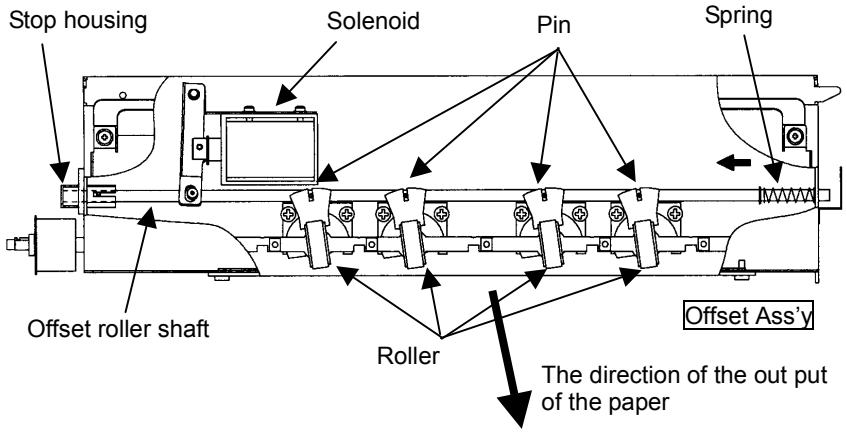


Fig 8-14 Out put a paper to the OP side

(2) Out put a paper to the opposite OP side

As for the operation of Offset ass'y, when the solenoid is ON, Offset roller shaft is dabbed to Stopper plate, and is connected with the pin on the shaft and roller turns to the opposite OP side.

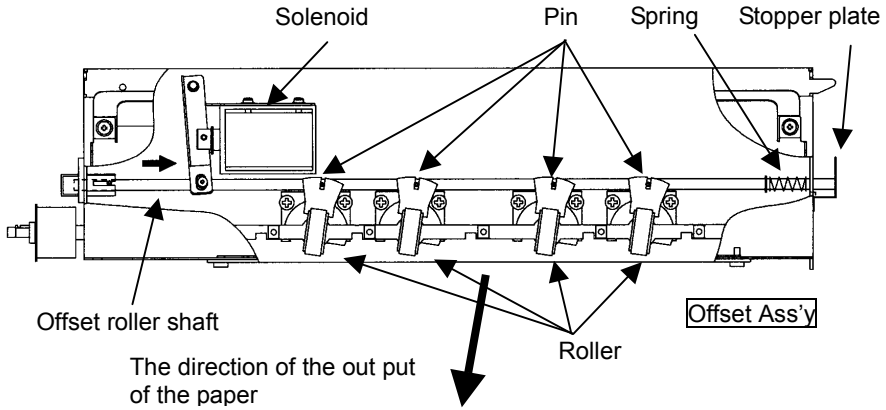


Fig 8-15 Out put a paper to the opposite OP side