Transit Pass Unit Type156

Installation Manual

Sep, 2006
N904131

Revision Table for manual

Rev. for Manual	Machine Rev.	Page No.(Contents)	Date
00	-	FIRST EDITION	May.26, '06
01	-	2-4, 2-6, 4-2 (Addition of the BS Plate Assembly)	Sep.21, '06
		4-6 (Addition of the Configuration of Post Device)	
		Front cover,Table,Safety2,Safety3,1-1,2-1,2-3,3-1,3-2, 4-1,4-2,4-3,4-4,4-5,4-6 (Change of the product name)	

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This manual describes information for handling and operating the Transit Pass Unit Type156.

NOTICE TO USER

In an effort to meet the demands of a rapidly changing technology, the manufacturer is continually developing new features and functions to meet your changing printing or Transit Pass Unit Type156 needs. As a result, this manual may not exactly reflect future changes made to the product. Please be sure to consult all manual updates or addenda when using this product' s documentation.

INTRODUCTION

This manual provides essential information to install the Transit Pass Unit Type156
Carefully read and understand the safety instructions in this manual before starting installation.
Keep this manual on hand for reference.

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Table of Contents

⚠ SAFETY SUMMARY

The hazard warnings which appear on the warning labels on the machine or in the manual have one of the following alert headings consisting of an alert symbol and a signal word, DANGER, WARINIG, or CAUTION.

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER:	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING:	Indicated a potentially hazardous situation which, if not avoided, can result in death or serious injury.
⚠ CAUTION:	Indicates a hazardous situation which, if not avoided, will or can result in minor or moderate injury, or serious damage of product.
CAUTION:	Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

1. ⚠ General Safety Guidelines

Before operating the machine, read the following instructions carefully:

- Follow all the installation procedures provided in this manual.
- Pay special attention to and follow all the hazard warnings on the machine and in the manual. Failure to do so can cause injury to yourself or damage to the machine.
- Do not perform any installation in any way other than as provided in this manual.
- Keep in mind that the hazard warnings in this manual or on the machine cannot cover every possible case, as it is impossible to predict and evaluate all circumstances beforehand. Be alert and use your common sense.

2. ⚠ Hazard Warning Statements

The following are the hazard warning statements contained in this manual.

2.1 ⚠ WARNING Statement

- Keep space at the rear of the Transit Pass Unit Type156 for ventilation. Otherwise, cooling of the equipment does not done properly and print Quality may be degraded. (Refer to Figure in the Appendix.
  for the area of the space.)

  (Section 1.2,Page 1-1)

- Be careful when unpacking using the crane or forklift. Do not to drop the Transit Pass Unit Type156, hit it against something, or turn it over on its side.

  (Section 2.1,Page 2-1)

- Perform unpacking where there is no dust or water leaking.

  (Section 2.1,Page 2-1)

- Do not place heavy objects which weigh 5 kg or more on the Transit Pass Unit Type156.

  (Section 2.1,Page 2-1)

- Be careful when lifting the Transit Pass Unit Type156 with the forklift so the Transit Pass Unit Type156 is well-balanced on the arms of the lift. Also put the packing (cushion) between the Transit Pass Unit Type156 and the forklift so the printer is not damaged.

  (Section 2.1,Page 2-1)

- Observe the speed limit of 300 mm/sec. (1.08 km/hr) when moving the Transit Pass Unit Type156. Do not move the Transit Pass Unit Type156 on unleveled floor. Do not tilt the Transit Pass Unit Type156 15 deg. or more.

(Section 2.1,Page 2-1)

- Choose the route to move the Transit Pass Unit Type156 where the slope is less than 15 deg.

(Section2 .1,age 2-1)

- Do not push in the direction of the arrow at the movement of the Transit Pass Unit Type156. There is danger to which it falls.

(Section 2.1,Page 2-1)

- Choose the location to place the Transit Pass Unit Type156 where there is no condensation.

(Section 2.1,Page 2-1)

Chapter 1. Installation Requirements

1.1 Application

These specifications are applicable to the Transit Pass Unit Type156, installation and adjustment.

1.2 Installation Area

Installation area is shown in Appendix 1.

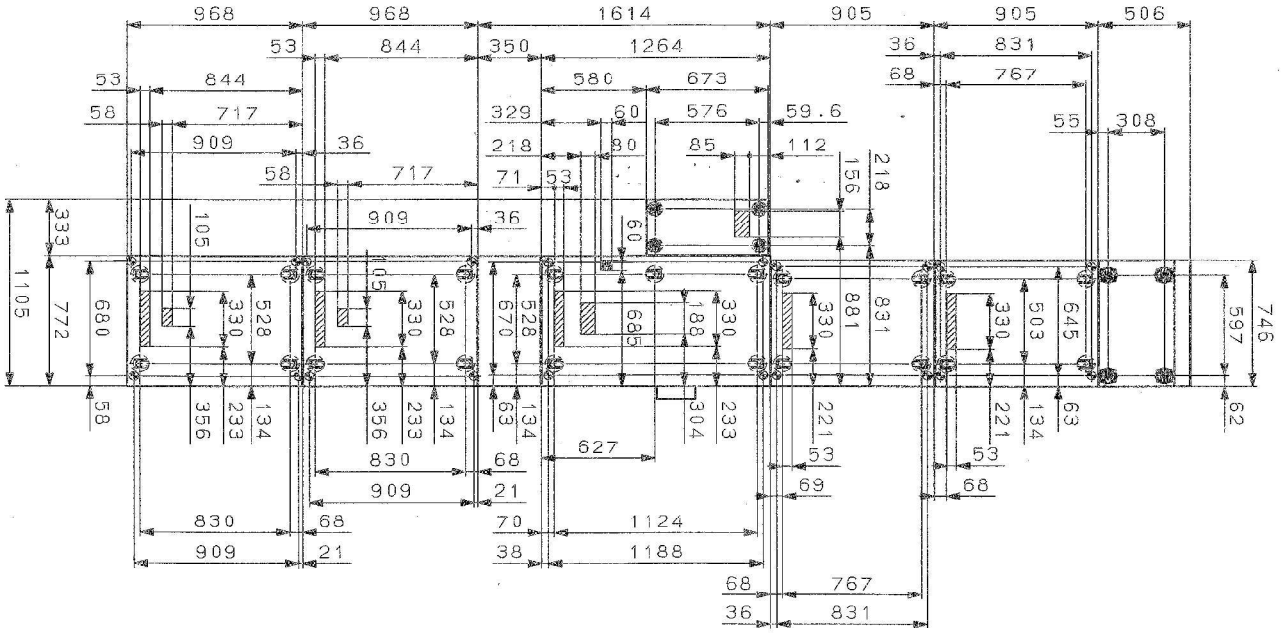
⚠ WARNING

Keep space at the rear of the Transit Pass Unit Type156 for ventilation. Otherwise, cooling of the equipment does not done properly and print Quality may be degraded. (Refer to Figure in the Appendix 1 for the area of the space.)

1.3 Preparation for installation

Make sure the floor where the leveling bolts to be mounted is strong enough. If the floor is not strong enough, the equipment may tilts and may cause paper handling problem.

High Capacity Feeder 2 (Option)	High Capacity Feeder 1 (Option)	Print Engine With Controller	Additional Stacker (Option)	Standard Stacker	Transit Pass Unit Type156 (Option)



Jack Screw

Caster Rotation Area (Φ82)

Caster Rotation Area (Φ100)

Intake Hole For AC Cable

Jack screw and Caster Area (Φ95)

Exhaust Hole

1.4 Tools Required

Table 1.1 Tools Required

Item	Name	Usage
1	Cutter	Unpacking
2	Plus Driver	Removing and installing the screw for covers
3	Hex Wrench Set	Installing (3mm and 4mm size must be included in the set)
4	Spanner (Span: 17mm)	Leveling the bolt
5	Level (Sensitivity; 20' max.)	Check and adjustment of level

1.5 Environmental Conditions

Table 1.2 Environmental Conditions

	Temperature	Humidity
Operation	16 - 32 deg. C (60.8 - 89.6 deg. F)	20 - 80 %RH Wet Bulb 26 deg.C(78.8 deg. F) max.
Recommended condition	19 - 25 deg. C (66.2 - 77 deg. F)	40 - 60 %RH
Non-Operation	-10 - 40 deg. C (14 - 104 deg. F)	8 - 90 %RH Wet bulb 27 deg. C (80.6 deg. F) max.
Storage	-10 - 40 deg. C (14 - 104 deg. F)	5 - 90 %RH
Shipment	-25 - 50 deg. C (-13 - 122 deg. F)	5 - 100 %RH (not to be exposed in the rain/no condensation) 72hr. max. of over 40deg.C environment

Altitude : 0 to 2,100 m (0 to 7,000 feet) max.

Chapter 2. Unpacking

2.1 Unpacking of the Transit Pass Unit Type156

⚠ WARNING

1) **Perform unpacking where there is no dust or water leaking.**
2) **Do not place heavy objects which weights 5 kg or more on the Transit Pass Unit Type156.**
3) **Observe the speed limit of 300 mm/sec. (1.08 km/hr) when moving the Transit Pass Unit Type156. Do not move the Transit Pass Unit Type156 on unleveled floor. Do not tilt the Transit Pass Unit Type156 15 deg or more.**
4) **Choose the route to move the Transit Pass Unit Type156 where the slop is less than 15 deg.**
5) **Do not push in the direction of arrow at the movement of the unit. There danger to which it falls.**

6) **Choose the location to place the Transit Pass Unit Type156 where there is no condensation.**

2.1.1 Confirmation of parts quantities

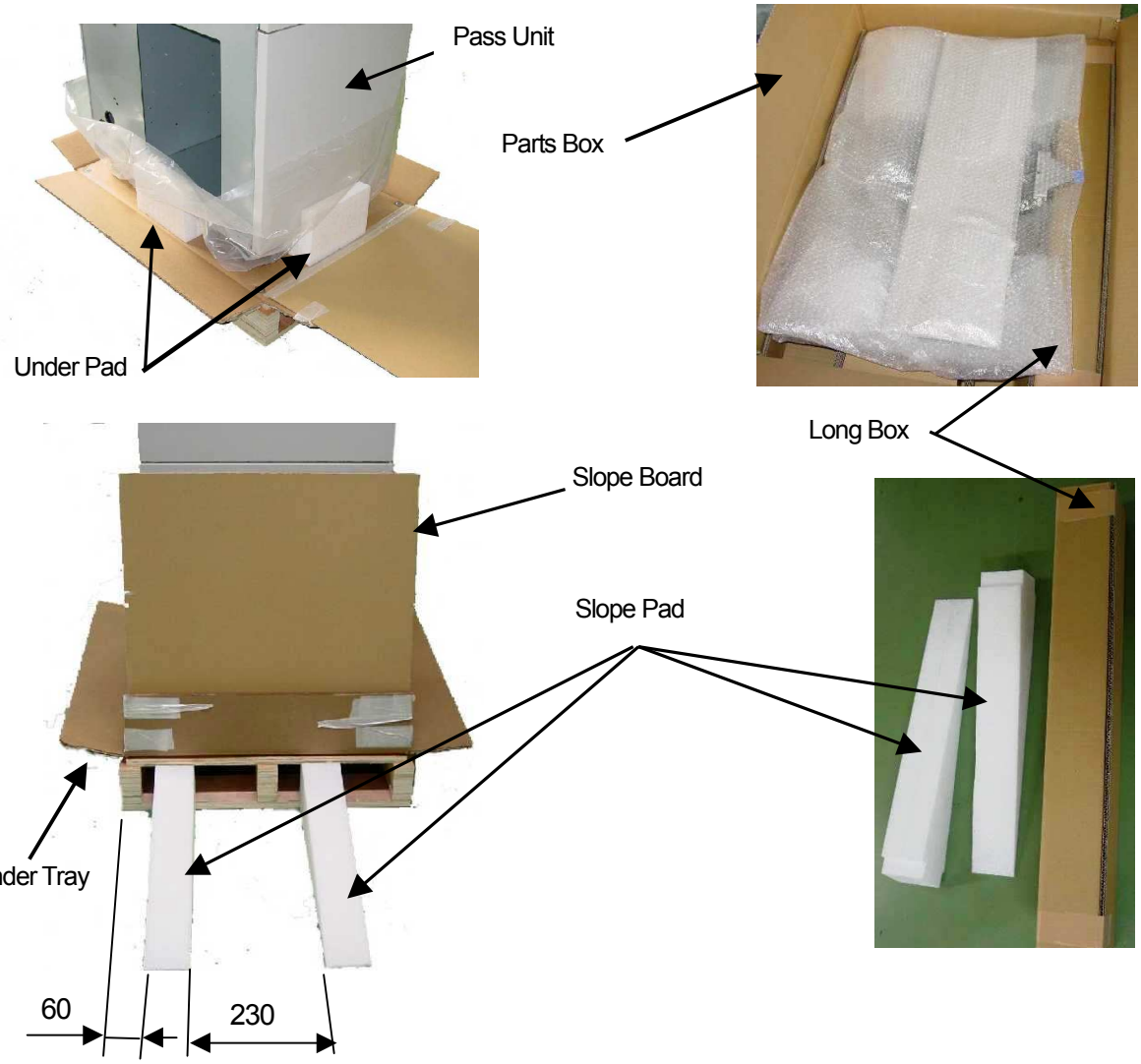
Table 2.1 Components in the package for Transit Pass Unit Type156

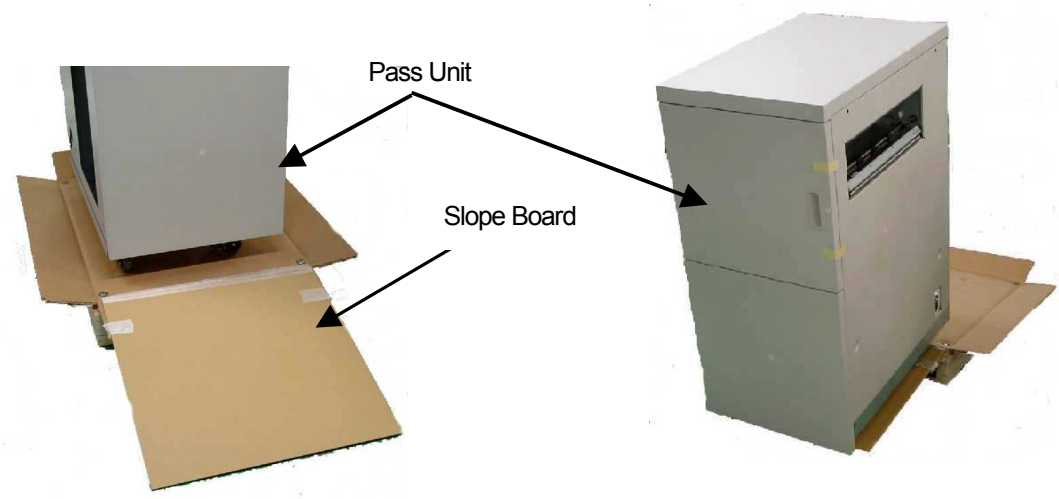
Unit of Packing	Quantity
Main body (Pass Unit)	1
Parts Box	1

2.1.2 Unpacking Procedures

1) Cut Bands and remove Cap.
2) Remove the Parts Box.(The Installation Manual is on the Box)
3) Remove Corrugated Paper Sleeve.
4) Remove Upper Pad (4pcs.), Corner Pad (4pcs.).,
5) Remove gummed tape and vinyl.
6) Remove the Slope Board and tapes on the Under Tray.
7) Remove the Installation Manual on the Parts Box and unpack the Parts Box.

8) Take out the Long Box from the Parts Box and take out the Slope Pad from Long Box.
9) Put the Slope Pad next to the Under Tray.
10) Use the Slope Board and unload the Pass Unit from the Under Tray on the floor.

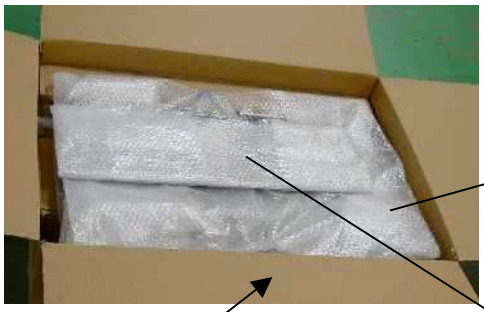


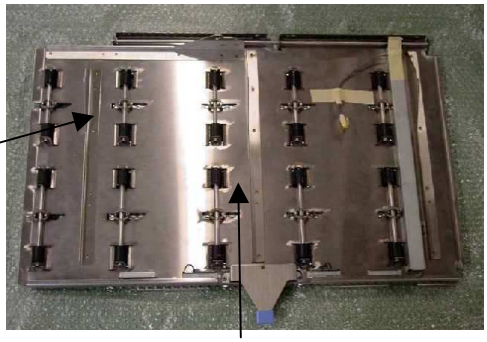


2.1.3 Parts check in the Parts Box.

(1) Take out the packed parts of the Parts Box.

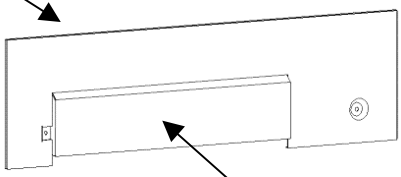
(2) Unpack the packed parts and remove the tape from the parts.



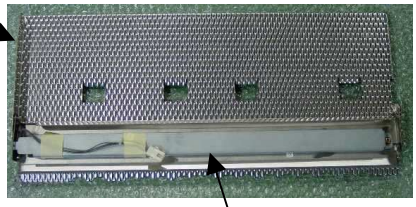


Parts Box

Paper Guide (ADD) Assembly



Side Cover (ST) W Assembly

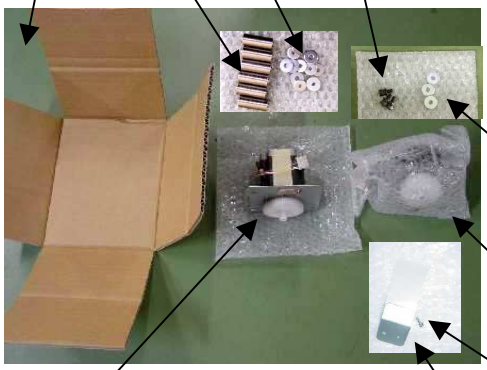


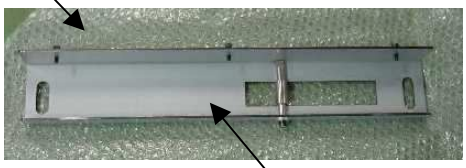
Washer (12 pcs)

M5x12 HEX Socket Bolt (3pcs)

Stand Pin (6 pcs)

Paper Guide Buffer Assembly





Press Washer (3pcs)

FTU Docking Bracket Assembly

PF Out (2) Motor Assembly (small motor)

Screw M3x6 (1pcs)

PF Out (2) Motor Assembly (large motor)

BS Plate Assembly

Parts Box

RTN Feed Roller (S) Assembly (3pcs)

RTN Feed Roller (SGP) Assembly (2pcs)

Carbon Electrode (5pcs)

Screw M4x16
(2pcs)

Band
(3pcs)

Joint Plate (3pcs)

CPHP Cable Assembly (1pcs)

Gnd Plate Holder (PHR) Assembly
(3pcs)

B.B Holder (H) (5pcs)

Timing Belt (short) (1pcs)

Screw M4x8 (9pcs)

One-Touch Bush
(2pcs)

Screw M4x12 (31pcs)

Timing Belt (long) (1pcs)

Extension Spring (long) (3pcs)

Tension Roller Assembly (Pulley without tooth) (1pcs)

Tension Pulley (G) Assembly (Pulley with tooth) (2pcs)

Extension Spring (short)(2pcs)

Table 2.2 Parts list in the Parts Box

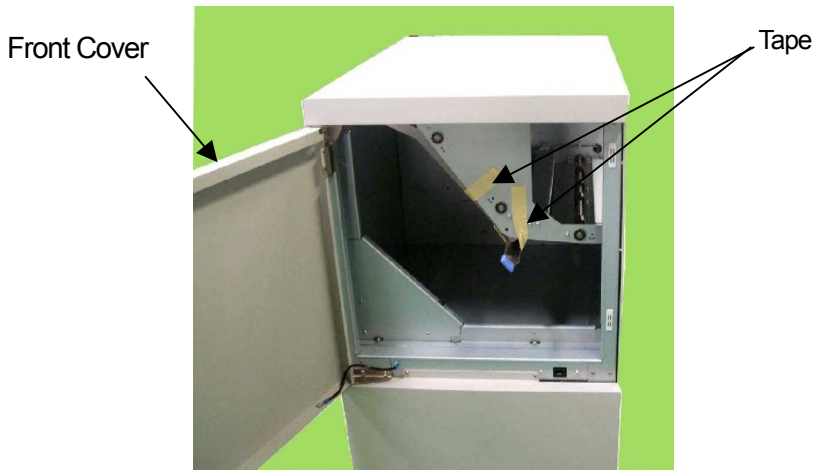
No.	Name	Q'ty	Note
1	RTN Feed Roller (S) Assembly	3	
2	B.B Holder (H)	5	
3	Carbon Electrode	5	
4	RTN Feed Roller (SGP) Assembly	2	
5	PF Out (2) Motor Assembly	1	Large Motor
6	PF Out (2) Motor Assembly	1	Small Motor
7	Tension Pulley (G) Assembly	2	
8	Tension Roller Assembly	1	
9	Timing Belt	1	Short
10	Timing Belt	1	Long
11	Extension Spring	2	Short
12	GND Plate Holder (PHR) Assembly	3	
13	Paper Guide Buffer Assembly	1	
14	Paper Guide (ADD) Assembly	1	
15	Extension Spring	3	Long
16	Side Cover (ST) W Assembly	1	
17	FTU Docking Bracket Assembly	1	
18	Joint Plate	3	
19	M5x12 HEX Socket Bolt	3	
20	Press Washer	3	
21	Screw, M4x12, PAN HD. Phillips	31	
22	Screw, M4x8, PAN HD. Phillips	9	
23	Washer	12	
24	Screw, M4x16, PAN HD. Phillips	2	
25	One-touch Bush	2	
26	Stand Pin	6	
27	CPHP Cable Assembly	1	
28	BAND	3	
29	BS Plate Assembly	1	Only use when connecting of the BSR
30	Screw, M3x6, PAN HD. Phillips	1	Only use when connecting of the BSR

Chapter 3. Preparation for Installation

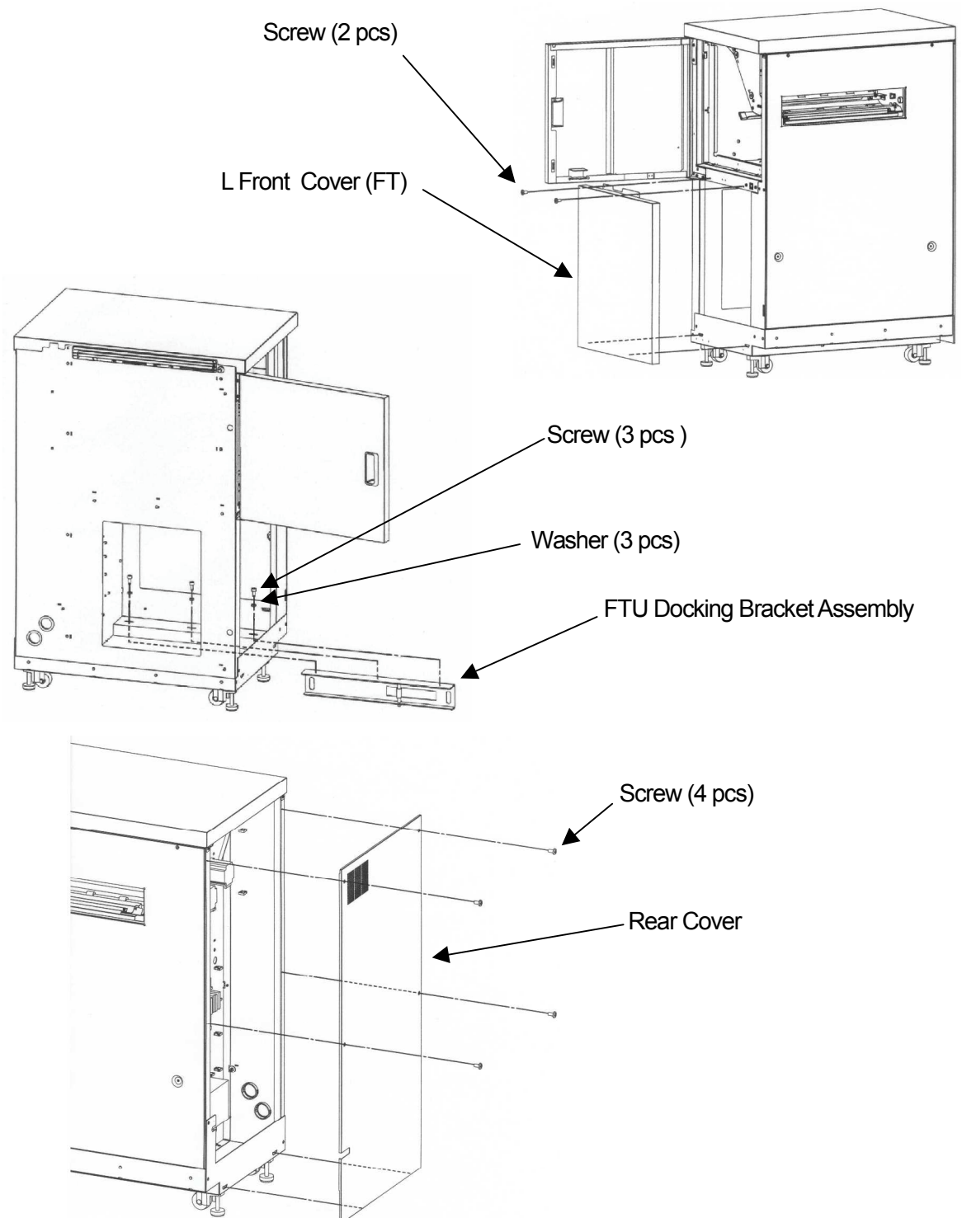
3.1 Preparation for Installation of the Pass Unit

1) Remove the tapes on the outside of the Pass Unit according to the following photo.

2) Open the Front cover of the Pass Unit.
3) Remove the tape on Paper Guide of the Pass Unit according to the following photo.

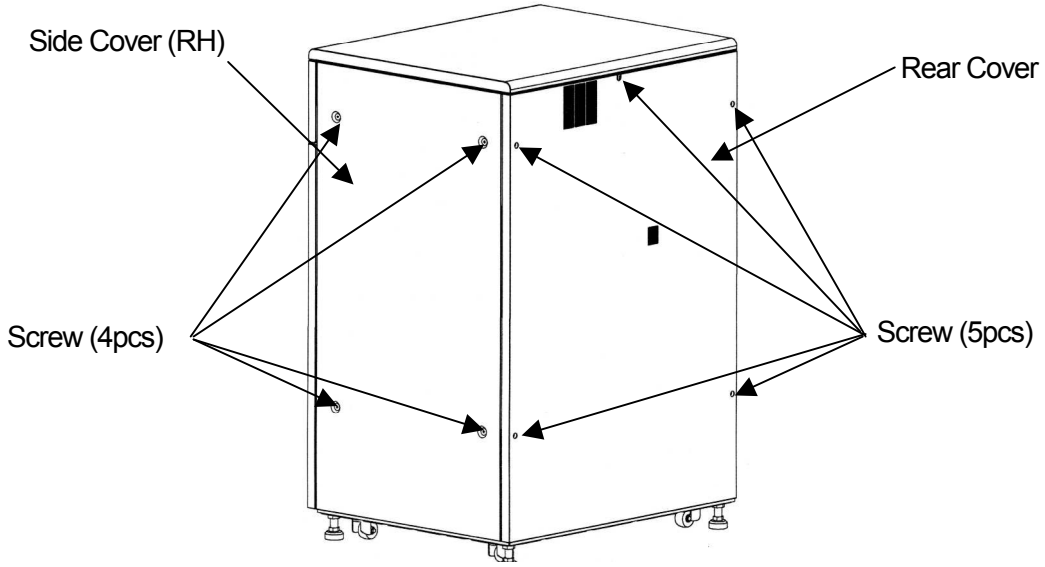


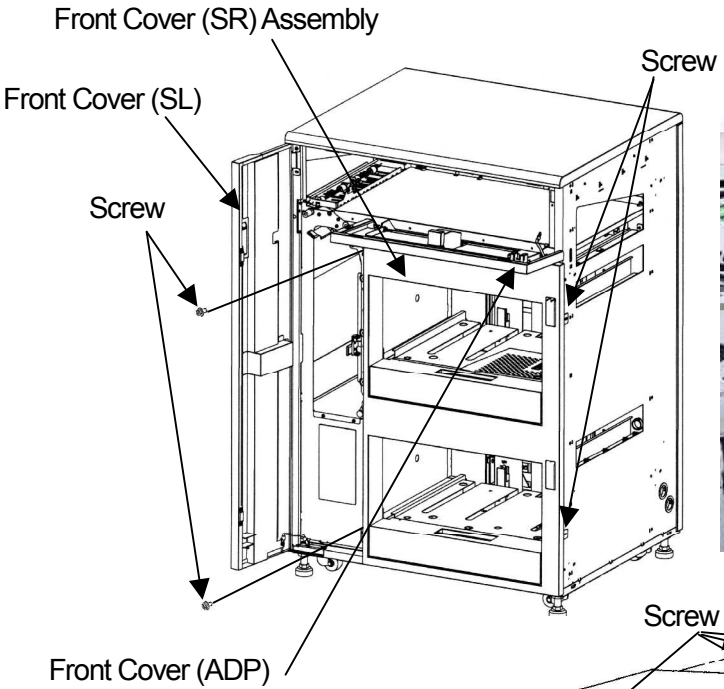
(4) Unscrew the two screws to remove the Front (U) Cover.
(5) Remove the three screws and the three washers from the FTU Docking Bracket Assembly.
(6) Fasten the FTU Docking Bracket Assembly on the bottom of the Pass Unit with the three screws, and the three washers which were installed the FTU Docking Bracket Assembly.
(7) Unscrew the four screws to remove the Rear Cover.

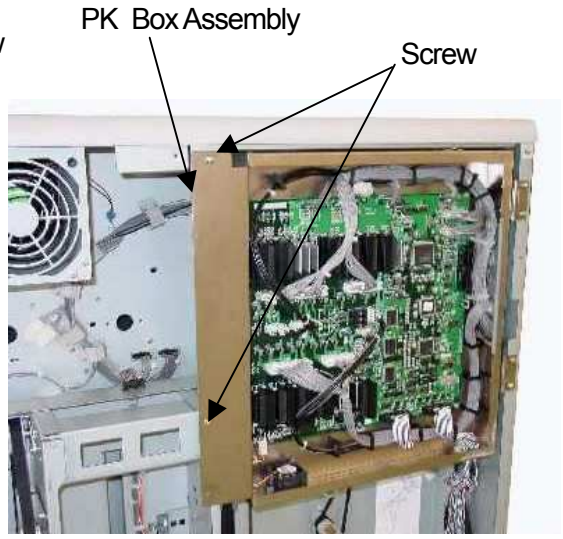


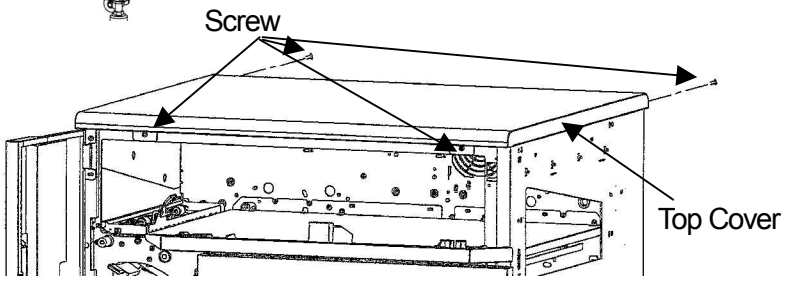
3.2 Preparation for Installation of the Stacker

(1) Unscrew the five screws to remove the Rear Cover.
(2) Unscrew the four screws to remove the Side Cover (RH).
(3) Open the Front Cover (SL) and Front Cover (ADP).
(4) Unscrew the four screws to remove the Front Cover (SR) Assembly.
(5) Unscrew the two screws to open the PK Box Assembly.
(6) Unscrew the four screws to remove the Top Cover.

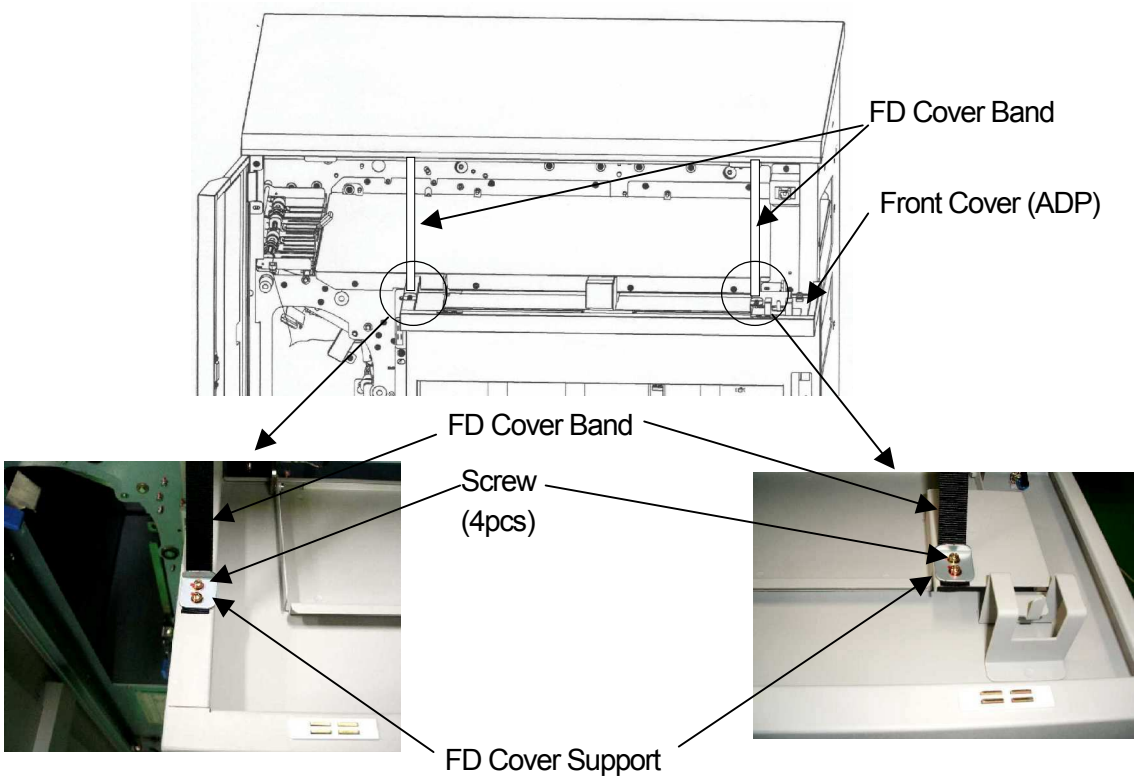


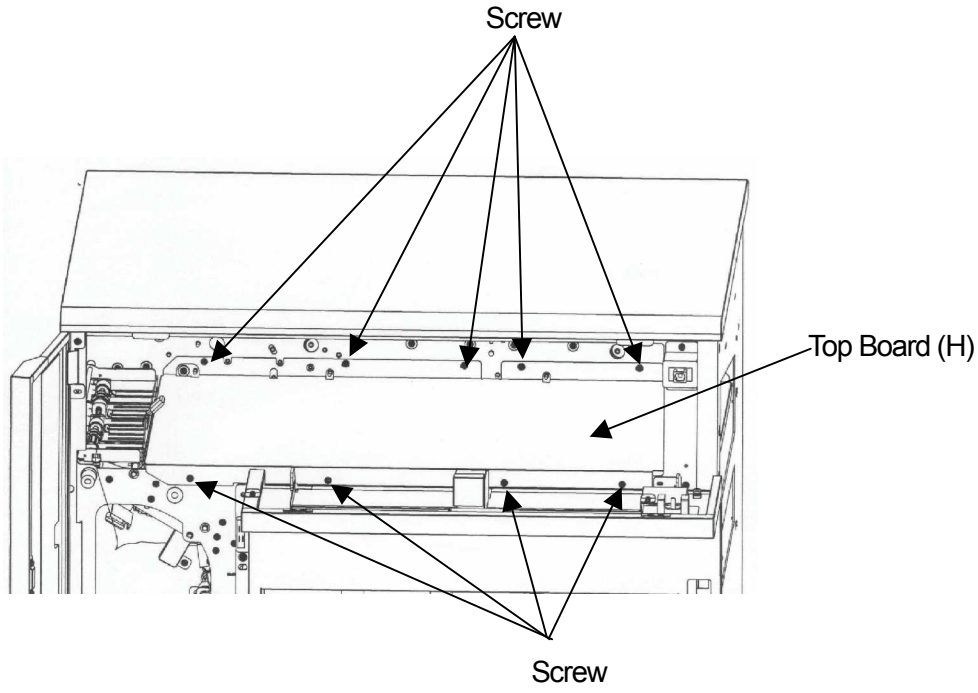




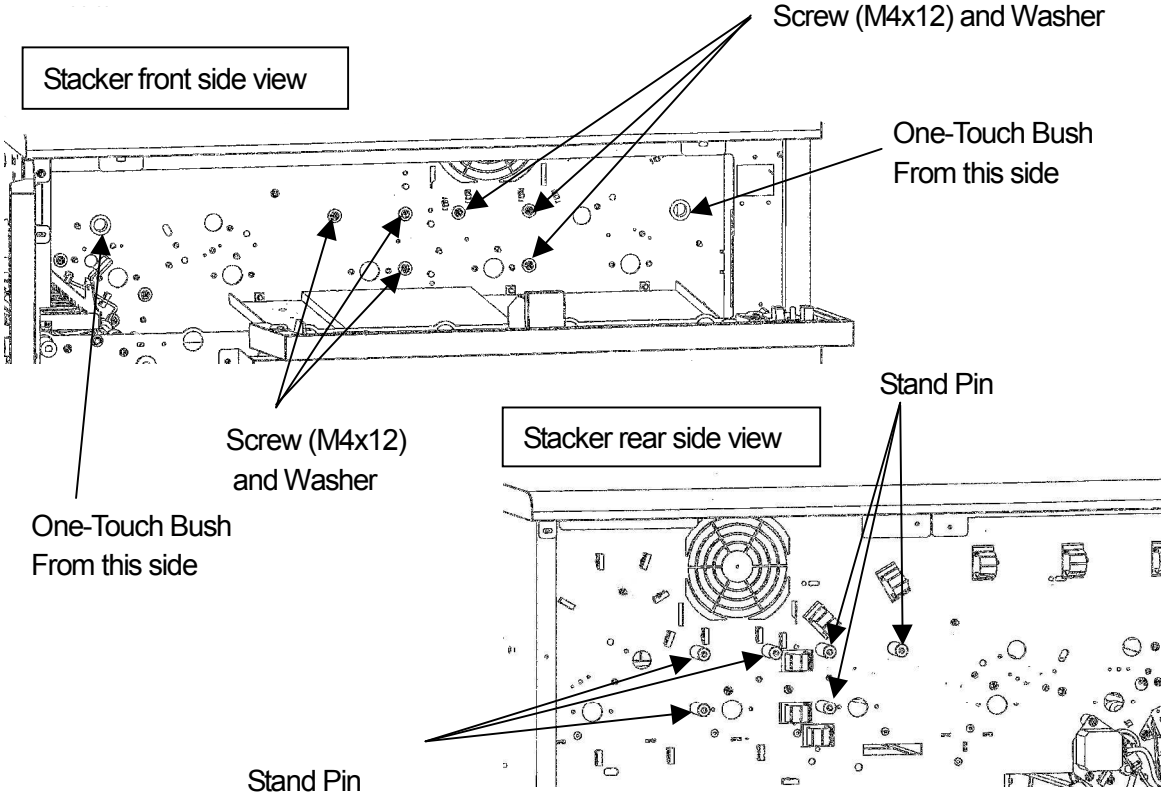


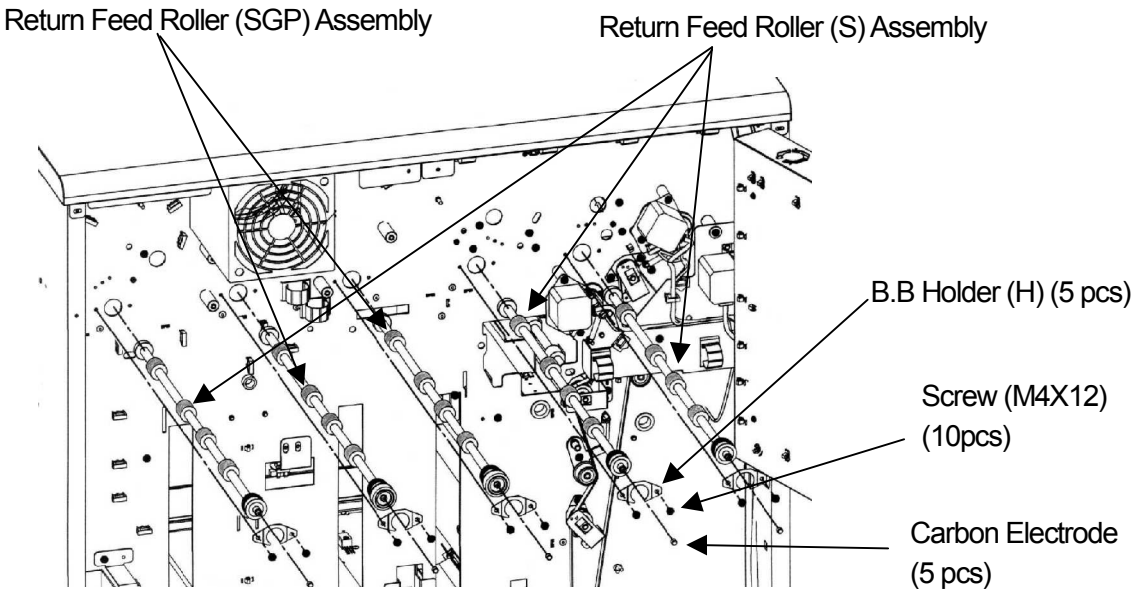
(7) Unscrew the four screws to remove the two FD Cover Supports and two FD Cover Bands.
(8) Unscrew the nine screws to remove the Top Board (H).



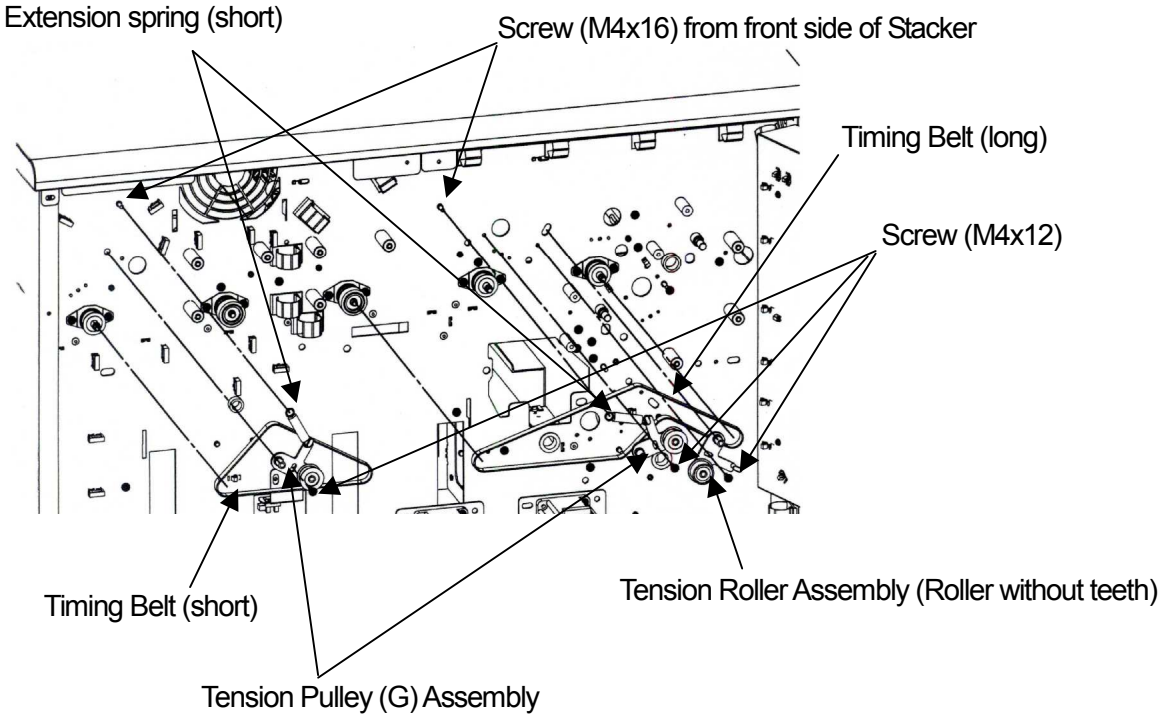


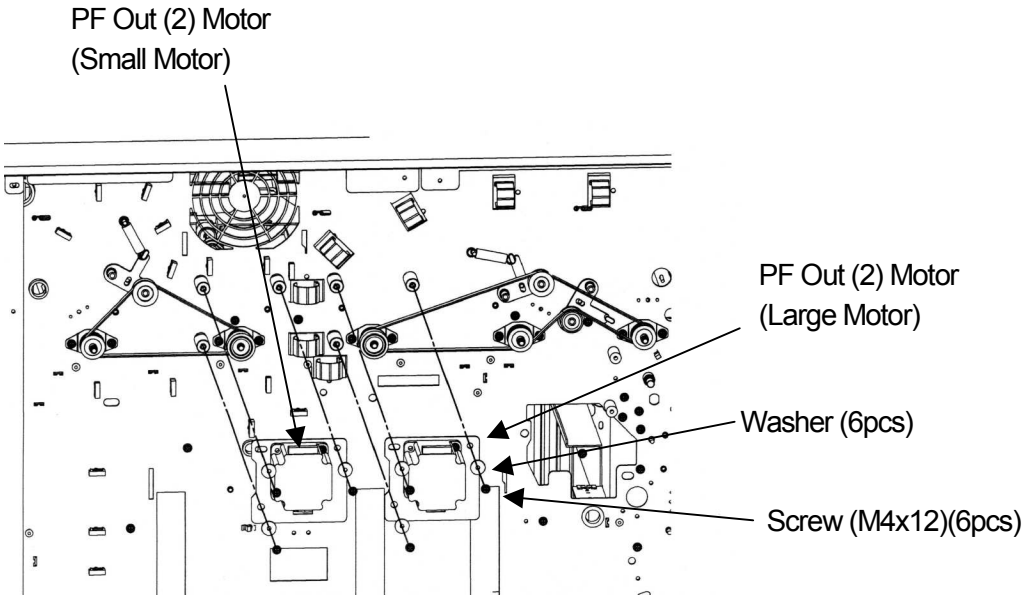
(9) Fasten the six Stand Pins with the six screws (M4x12) and six washers.
(10) Fit two One-Touch Bushes onto the holes which are shown in the following figure from the front side.
(11) Fasten the two RTN Feed Roller (SGP) Assemblies and B.B Holder (H) with the four screws (M4x12).
(12) Fasten the three RTN Feed Roller (S) Assemblies and B.B Holder (H) with six screws (M4x12).
(13) Put the five Carbon Electrodes on the three RTN Feed Roller (S) Assemblies and the two RTN Feed Roller (SGP) Assemblies.



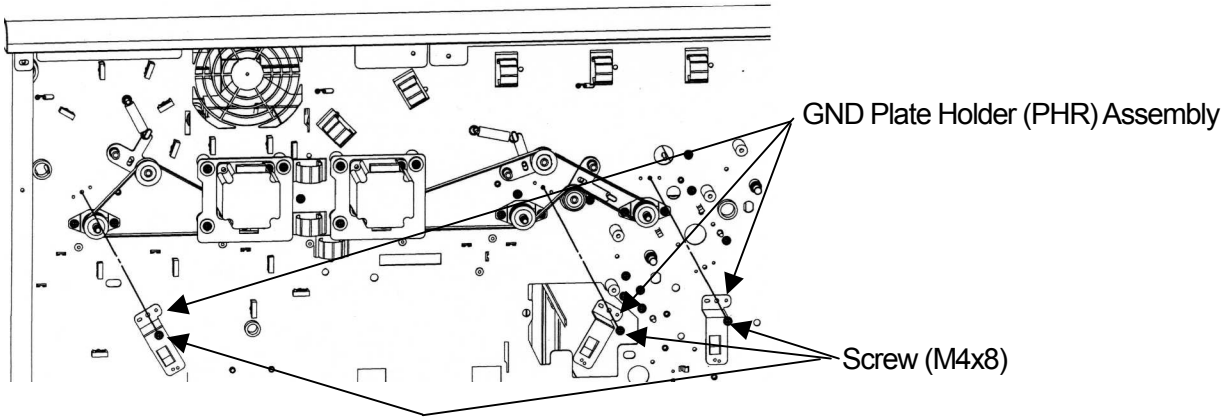


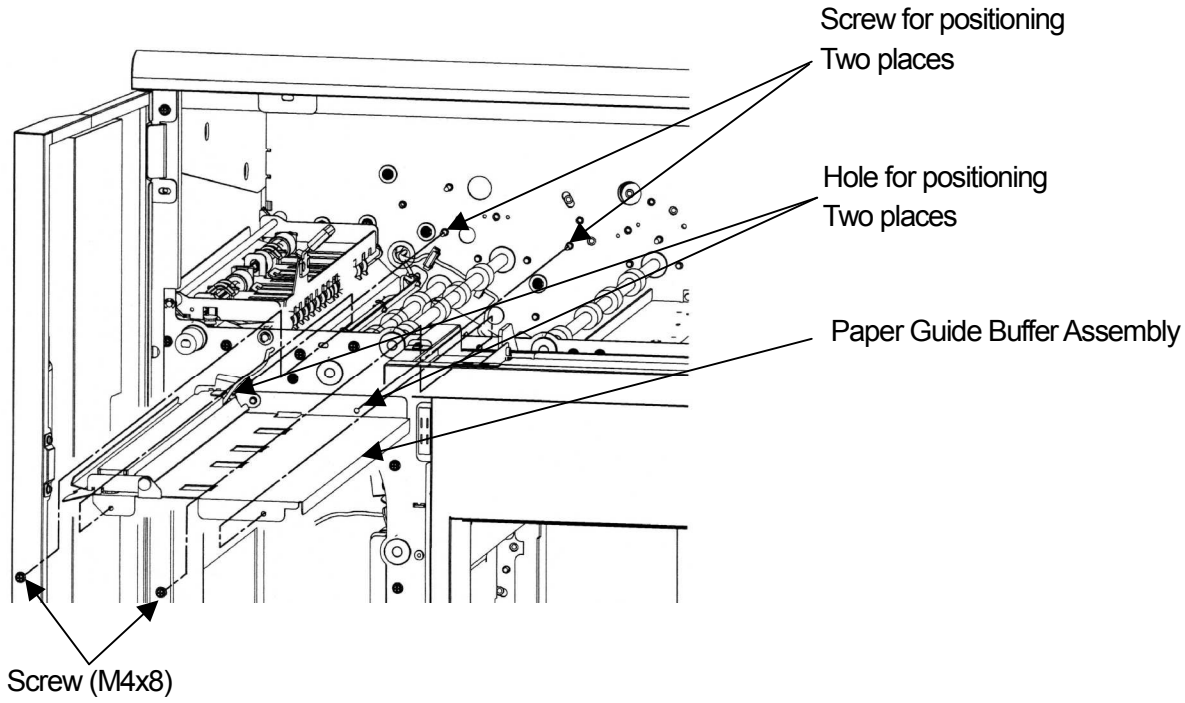
(14) Put the two Timing Belts (short and long) to the three RTN Feed Roller (S) Assemblies and the two RTN Feed Roller (SGP) Assemblies.
(15) Fasten the Tension Roller Assemblies and Tension Pulley (G) Assemblies with the three screws(M4x12) loosely.
(16) Fasten the two screws (M4x16) from front side of Stacker.
(17) Hang the two Extension springs(short) between the two Tension Pulley (G) Assemblies and the two screw(M4x16).
(18) Fasten the Tension Roller Assemblies and Tension Pulley (G) Assemblies with the three screws(M4x12) firmly.
(19) Fasten the two PF Out (2) Motors with six washers and six screws (M4x12).



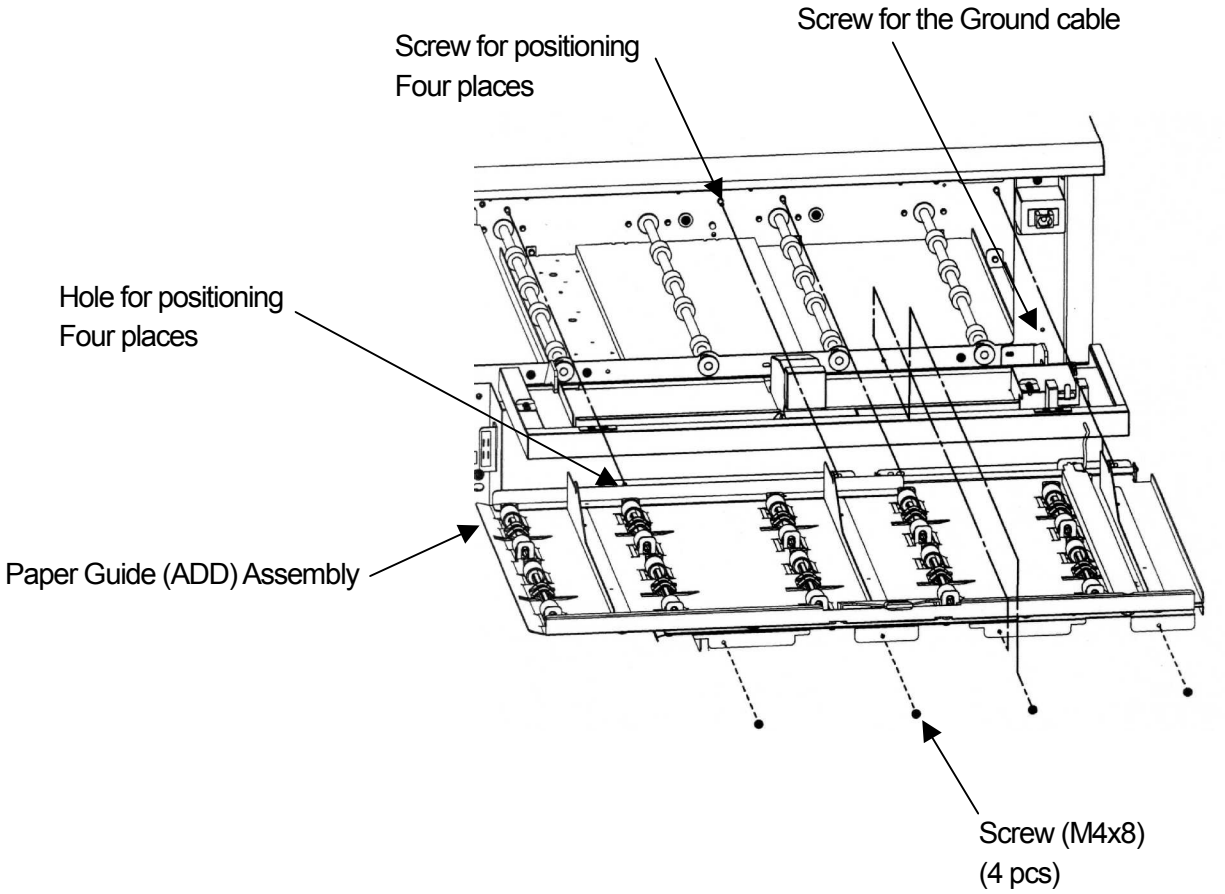


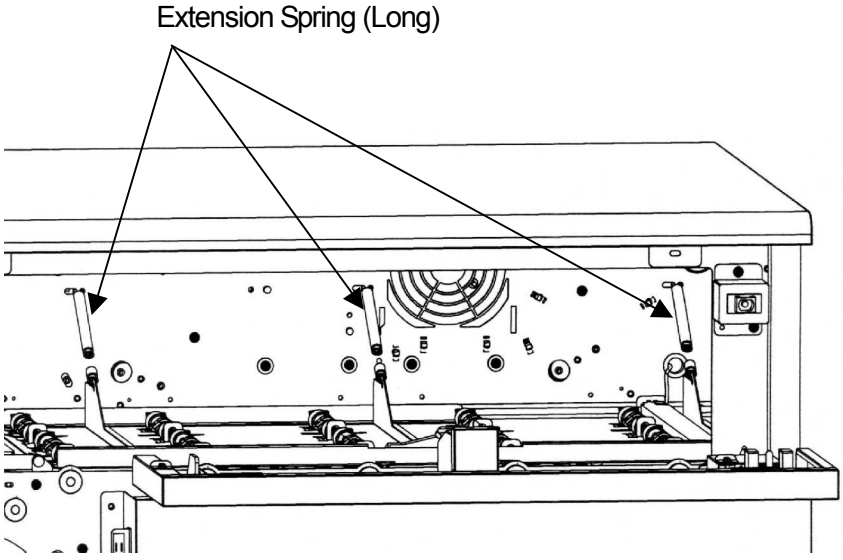
(20) Fasten the three GND Plate Holders (PHR) Assemblies with the three screws (M4x8).
(21) Fasten the Paper Guide Buffer Assembly with two screws (M4x8).



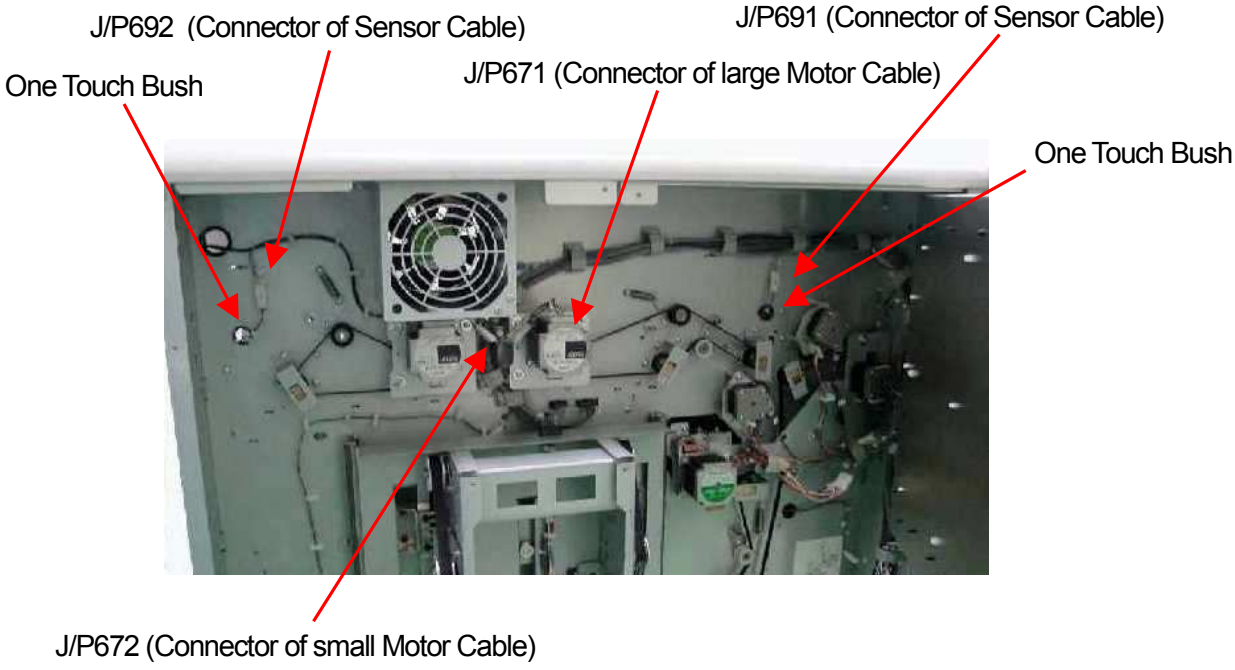


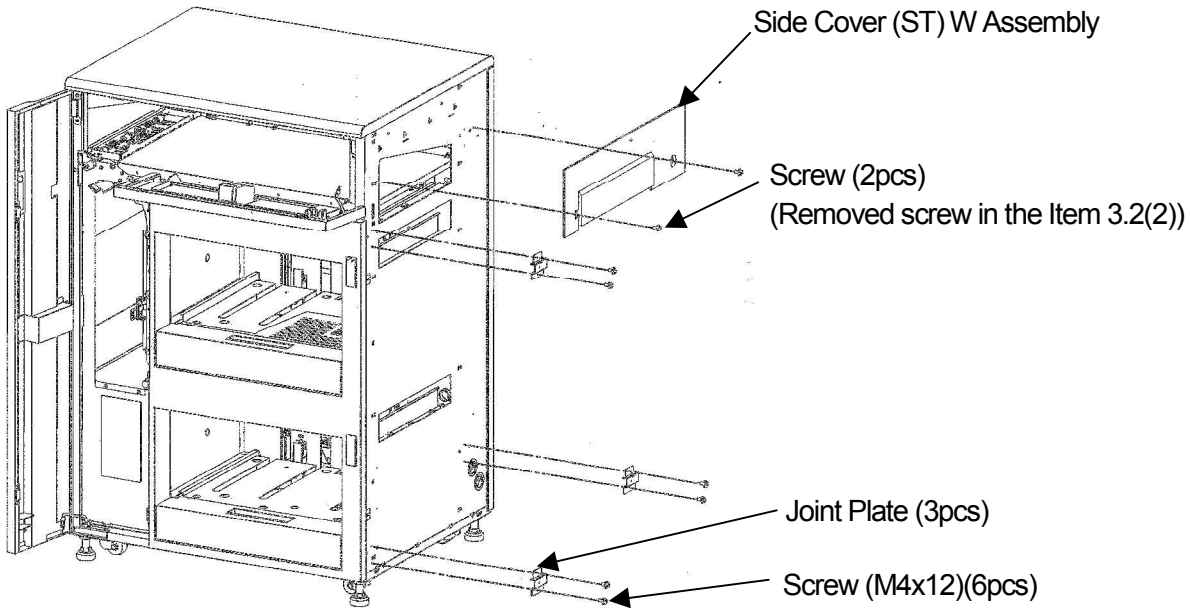
(22) Loosen the screw for the Ground cable.
(23) Fasten the Paper Guide (ADD) Assembly with four screws (M4x8).
(24) Hook the three Extension springs(long) between the Paper Guide (ADD) Assembly and the frame of the Stacker.
(25) Fasten the screw for the Ground cable.





(26) Pass the two Sensor Cables from the two One Touch Bushes which were fitted in the Item 3.2 (10)
(27) Connect J/P691, J/P692 (the Connector of the Sensor Cable).
(28) Connect J/P671(large motor), J/P672(small motor). (the Connector of the Motor Cable).
(29) Fasten the PK Box Assembly in the reverse order of Item 3.2 (5).
(30) Fasten the three Joint Plates to the Frame with six screws (M4x12).
(31) Fasten the Side Cover (ST) to the right side of the Frame with the two screws which were removed in the Item 3.2(2).
(32) According to the reverse order of Item 3.2(5), 3.2(6) fasten the two FD Cover Supports and two FD Cover Bands with the four screws
(33) Fasten the screw which was loosen in the Item 3.2(19).

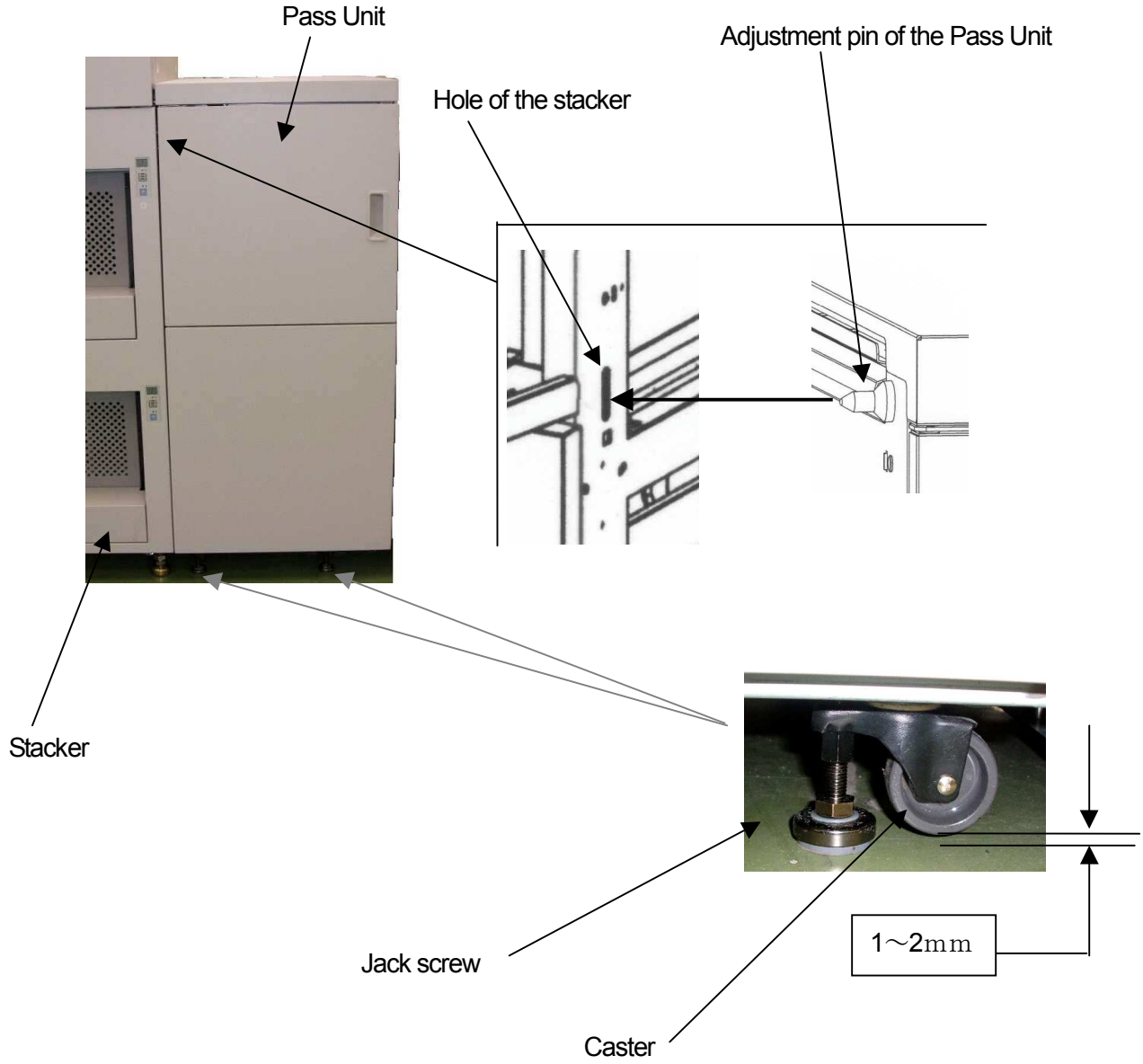




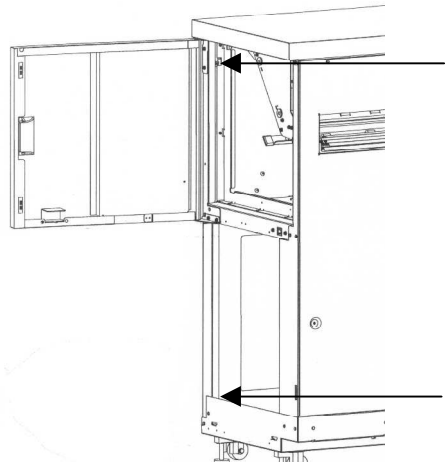
Chapter 4. Installation

4.1 Installation of Transit Pass Unit Type156

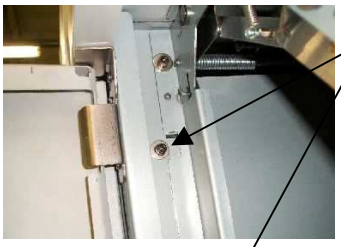
1) Connect the Pass Unit to right side of the Stacker, while fitting the adjustment pin of the Pass Unit into the hole of the stacker.



2) Fasten the Pass Unit to the Stacker with three M5x12 HEX Socket Bolts and washers.
3) Turn all the Jack screws until they just touch to the floor.
4) Turn all the Jack screws again so that there are about 1mm of space between Casters and floor. (Refer to the drawing of previous page.)

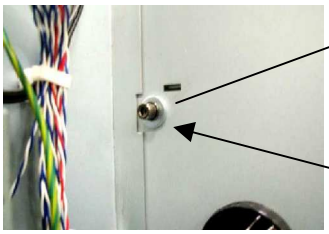


Front side of Pass Unit



M5x12 HEX Socket Bolt and Washer

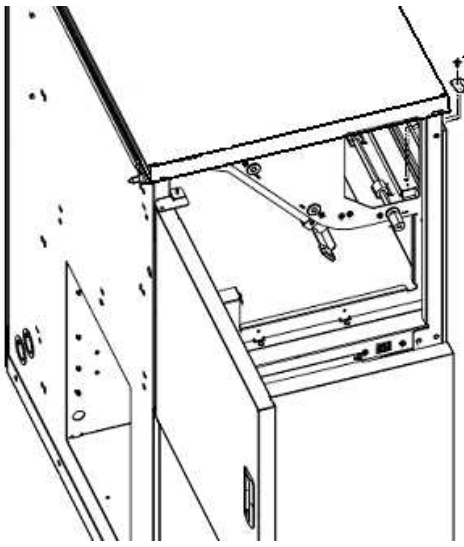
Rear side of Pass Unit



M5x12 HEX Socket Bolt and Washer

5) Fasten the BS plate Assembly with a screw (M3x6). (Only when connecting the **B**ourg **S**heet **R**otator to the side of the Pass Unit)

Note. When connecting the BSR to the Pass Unit, insert the BS Plate Assembly between the paper path of the BSR.



Screw (M3x6)

BS Plate Assembly

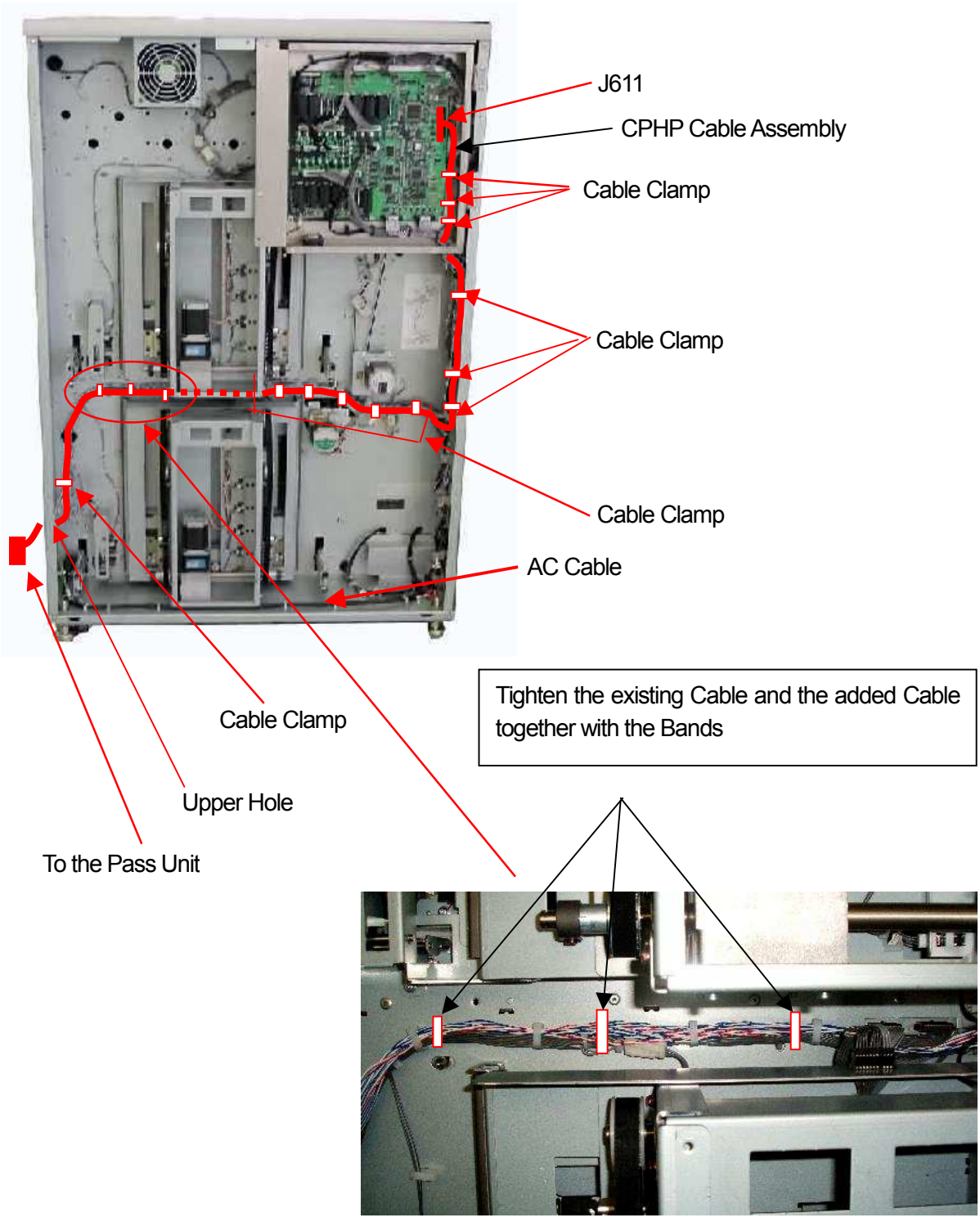
The paper path of the BSR

BS Plate Assembly

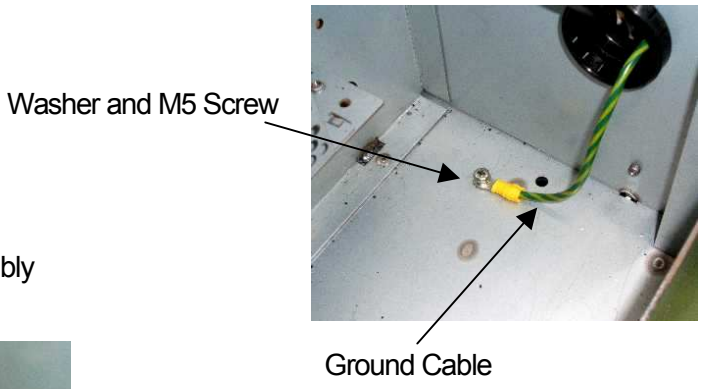
4.2 Installation of Cable

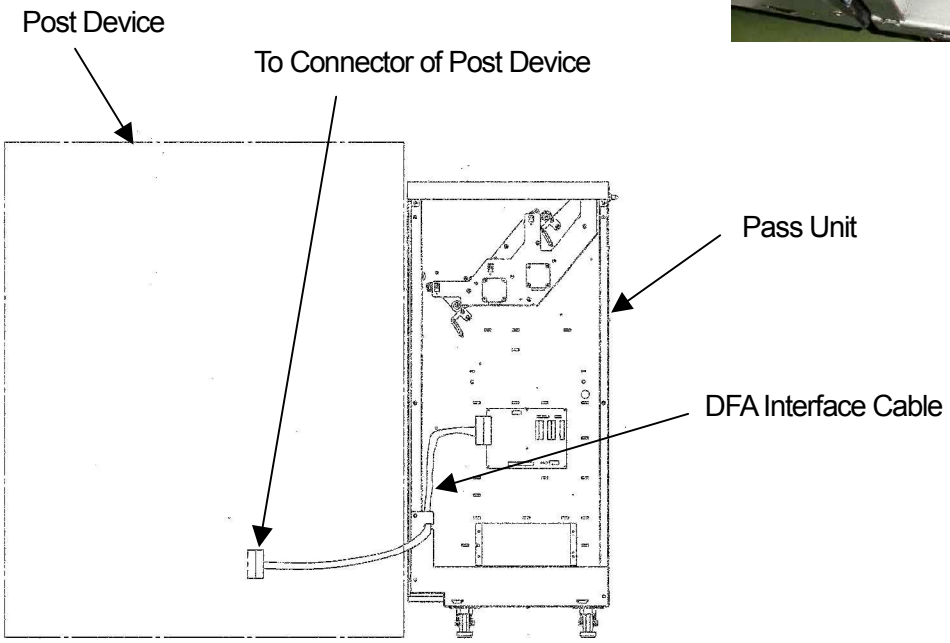
It is necessary to connect two kinds of cable (AC Cable, CPHP Cable Assembly)

1) Install the CPHP Cable Assembly in the Stacker as shown below. Use the Cable Clamps which were installed, and use the bands which unpacked which were by item 2.1.3.



2) Connect the CPHP Cable Assembly through the upper hole from the Stacker.
3) Remove the Dummy Connector from the connector of CPHP Cable Assembly.
4) Connect the AC Cable through lower hole from the Pass Unit.
5) Pass the Ground Cable from the lower hole of the Stacker.
6) Remove M5 screw and washer, fasten the Ground Cable with the M5 screw and the washer.
7) Connect the DFA Interface Cable to Post Device, refer to the Installation Manual of Post Device for detail.





4.3 Adjustment of leveling height

According to the following procedure, adjust the height of Pass Unit.

1) As shown in Fig.1, leveling height is adjusted so that an eye mark can be seen in a slit.
2) Confirm the level of the Pass Unit with the level, turn the Jack screws and adjust the level of the Pass Unit.

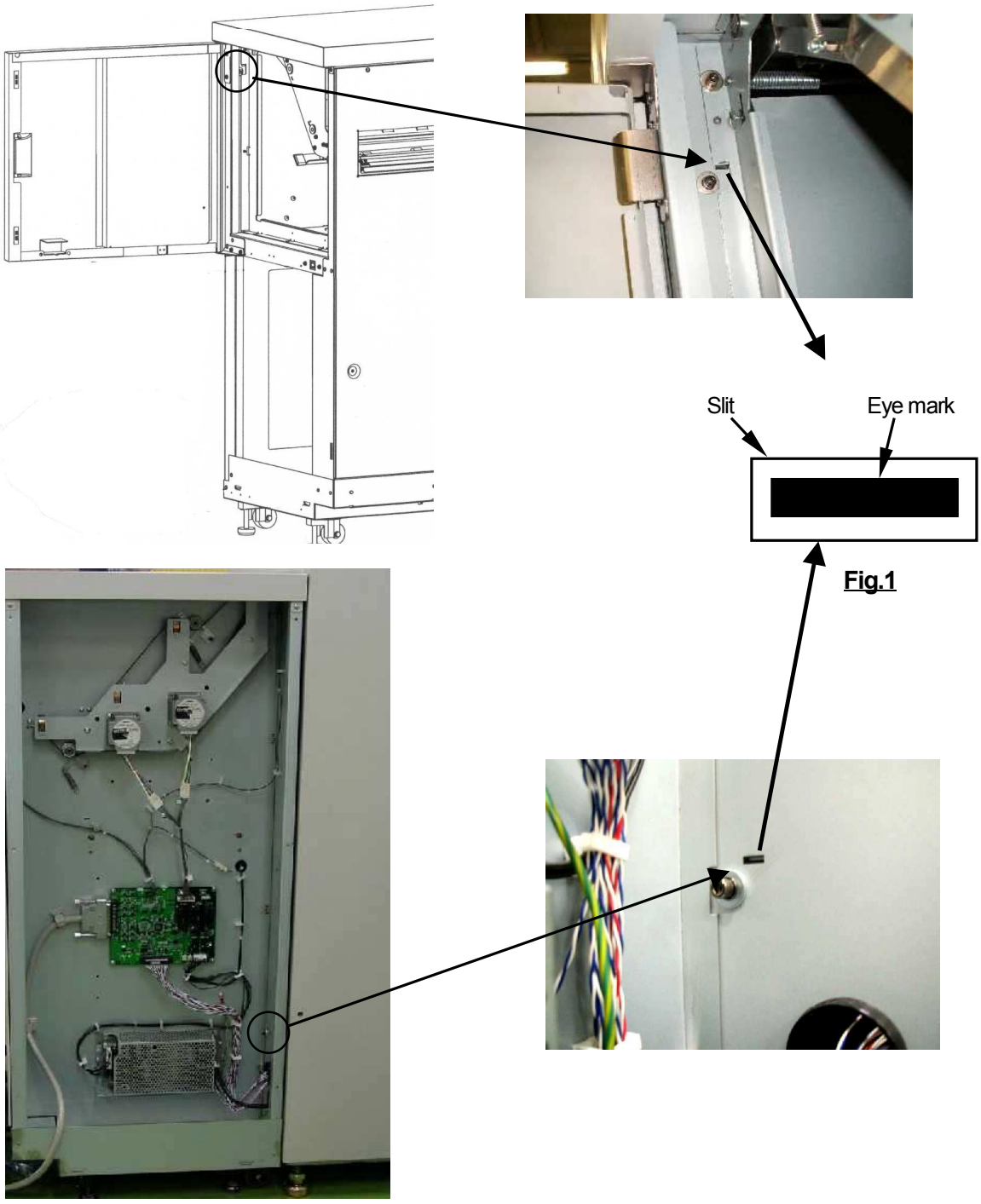
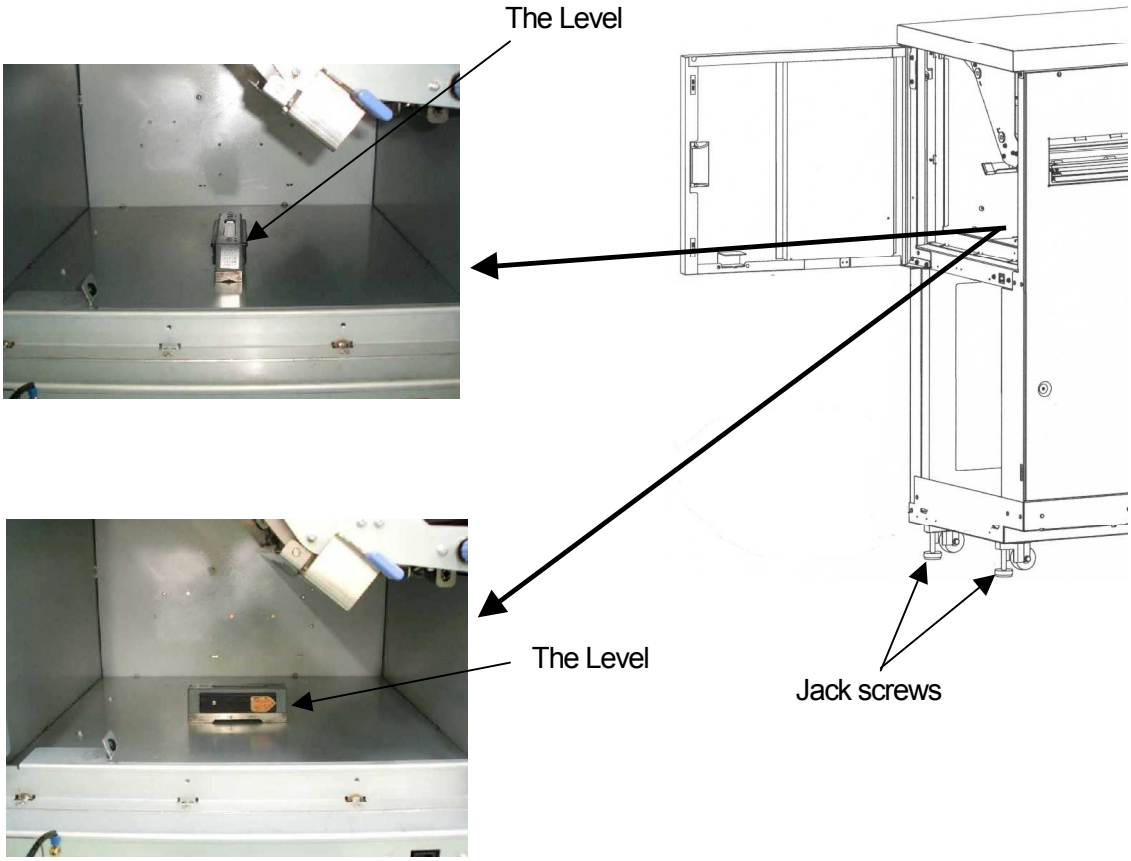


Fig.1



3) Fasten screws completely between the Stacker and the Pass Unit.

4.4 Attaching covers

Attach and close all covers which were removed or opened when installation process.

4.5 Configuration of Post Device

It is necessary to define post device configuration for Sheet Rotator and Cover Feeder before using Post Device. It can be selected "Installed" or "Not Installed" using following menu of Operator Control Panel.

[Setup] - [Service] - [Configuration] - [Post Device Config] - [Sheet Rotator]
- [Cover Feeder]

Appendix 1. Installation Area Information

Printer installation area information