

MUTOH

Ch 03. Parts Replacement

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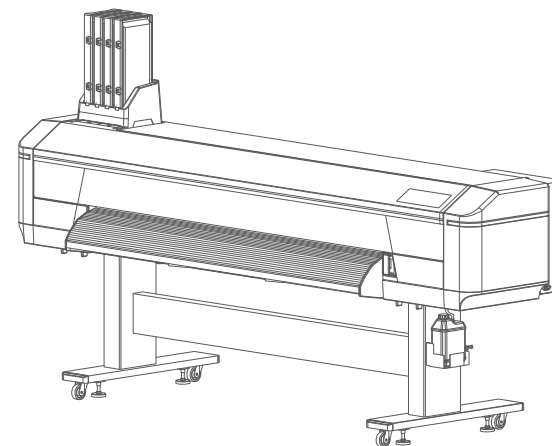
3.4 PF

XPJ1641SRE-M-00

MAINTENANCE MANUAL

Full-Color Inkjet Printer

XpertJet
1641SR



CONFIDENTIAL

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3.1 Introduction

This chapter provides information on removal and replacement of service parts.

⚠ WARNING

Before starting part(s) replacement, always perform following operations.

- Turn OFF power.
- Remove power plug from outlet, in order to avoid electric shock and/or system circuit damage.
- Remove all the cables connected to printer.

⚠ CAUTION

Components in printer can be disassembled only if instructed so in this manual. Do not disassemble Frame components and/or other components that are not instructed.

The printer has been assembled in MUTOH factory with extremely high precision up to 1/100mm. If disassembled inappropriately, normal functionality may not be restored.

NOTE

- Perform necessary lubrication and bonding after restoration in accordance with Chapter 7 Lubrication / Bonding.
- Pictures and illustrations are taken at development phase. Thus specification and procedure may not be up-to-date.

TIP

Chapter TOC=> [3 Parts Replacement](#)

Index by Section

=> [3.2 Covers - Remove / Assemble](#)

=> [3.3 Frame](#)

=> [3.4 PF](#)

=> [3.5 Y Rail](#)

=> [3.6 Platen](#)

=> [3.7 Maintenance](#)

=> [3.8 CR](#)

=> [3.9 Subtank](#)

=> [3.10 IH](#)

=> [3.11 Paper Guide](#)

=> [3.12 Board Box](#)

=> [3.13 Roll Media Holder](#)

=> [3.14 Panel](#)

=> [3.15 Cover](#)

=> [3.16 Stand](#)

=> [3.17 Ink Tube / Fitting](#)

=> [3.18 FFC / Cable](#)

Exploded View => [Appendix](#)

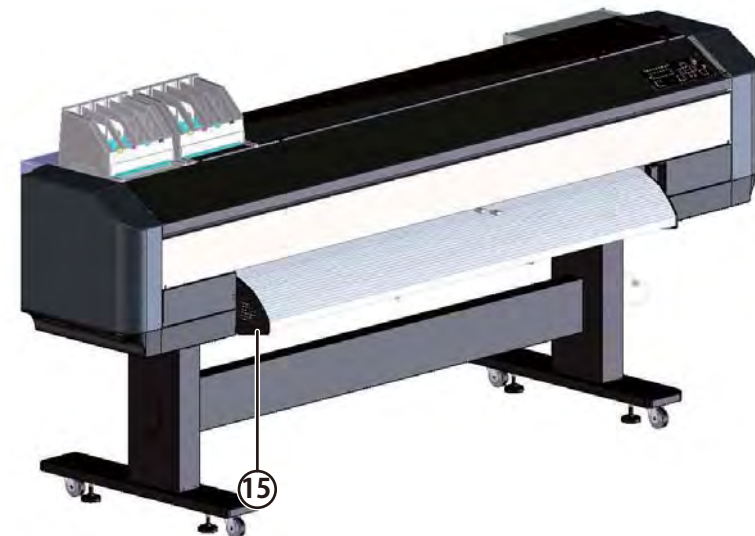
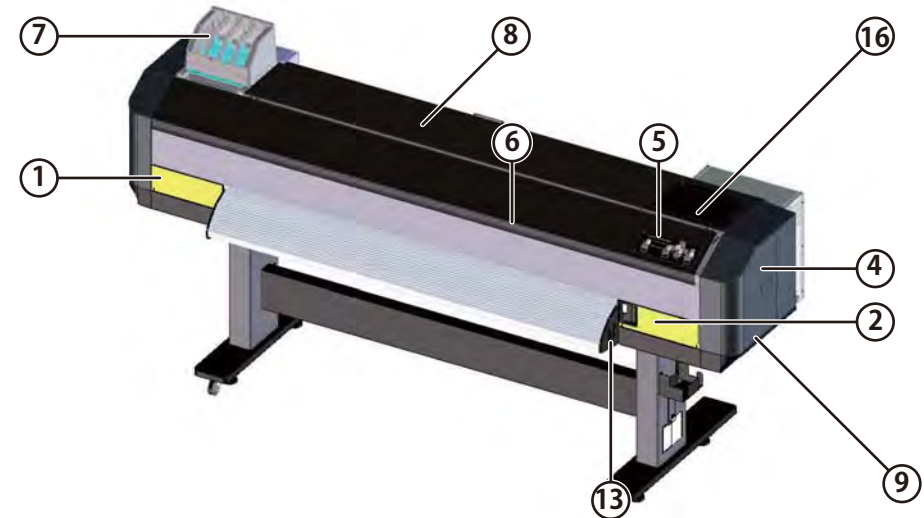
3.2 Covers - Remove / Assemble

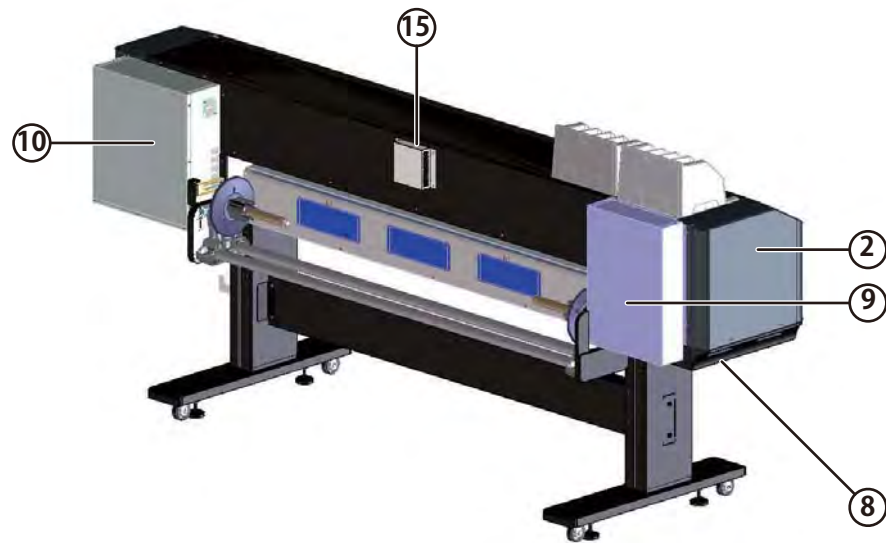
TIP

Chapter TOC=> [3 Parts Replacement](#)

This section describes the procedures to remove and reinstall Covers.
Followings describe the list of Cover parts.

No.	Name	Reference
1	Maintenance Cover L	3.2.1 Maintenance Cover L
2	Maintenance Cover R	3.2.2 Maintenance Cover R
3	Side Cover L	3.2.3 Side Cover L
4	Side Cover R	3.2.4 Side Cover R
5	Panel Unit	3.2.5 Panel Unit
6	Front Cover	3.2.6 Front Cover
7	IH Cover	3.2.7 IH Cover
8	Top Cover	3.2.8 Top Cover
9	Bottom Cover R	3.2.9 Bottom Cover R
10	Bottom Cover L	3.2.10 Bottom Cover L
11	Subtank Cover	3.2.11 Subtank Cover
12	Board Box Cover	3.2.12 Board Box Cover
13	Paper Guide Cover R	3.2.13 Paper Guide Cover R
14	Paper Guide Cover L	3.2.14 Paper Guide Cover L
15	Exhaust Fan Cover	3.2.15 Exhaust Fan Cover
16	Upper Tray	3.2.16 Upper Tray



**NOTE**

Removal and installation of the Panel is introduced in this section for the convenience.

TIP

Exploded Viiew

- => [11-31 Cover - \(1\)](#)
- => [11-32 Cover - \(2\)](#)
- => [11-33 Cover - \(3\)](#)
- => [11-34 Cover - \(4\)](#)

Index by Section=> [3.1 Introduction](#)

3.2.1 Maintenance Cover L

This sub-section explains removal and assemble of titled part(s).

A : Maintenance Cover L**TIP**

Exploded Viiew
=> [11-33 Cover - \(3\)](#)

**● Tools, Jigs, and Maintenance Part(s)**

Maintenance Part(s) No.	Name	Reference
		-

1 Open front cover.

2 Open maintenance cover L.
3 Move maintenance cover L to the left.

A : Maintenance Cover L

4 Remove maintenance cover L.



5 To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.2 Maintenance Cover R

This sub-section explains removal and assemble of titled part(s).

A : Maintenance Cover R

TIP

Exploded Viiew
=> [11-33 Cover - \(3\)](#)



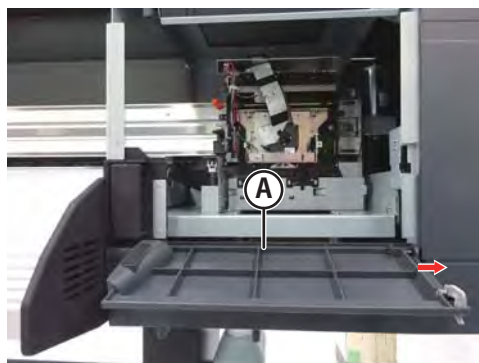
● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
		-

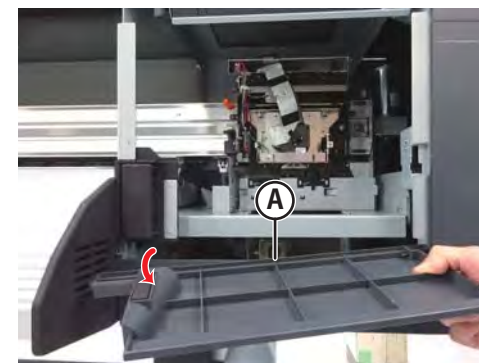
1 Open front cover.

2 Open maintenance cover R.
3 Move maintenance cover R to the left.

A : Maintenance Cover R



4 Remove maintenance cover R.



5 To Assemble unit, reverse the removal procedure.

NOTE

- removal and assemble of titled parts are the same in XPJ-1682SR and in XPJ-1641SR.
- XPJ-1641SR may be used here.

TIP

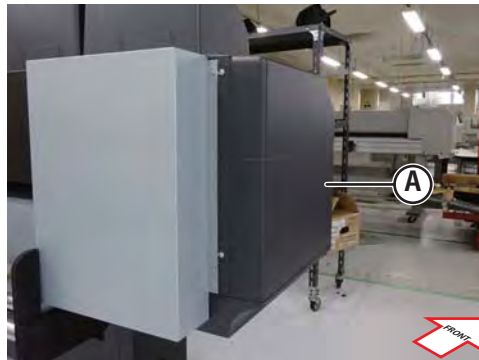
Section Top => [3.2 Covers - Remove / Assemble](#)
Alt + ← : Return to Previous Page

3.2.3 Side Cover L

This sub-section explains removal and assemble of titled part(s).

A : Side Cover L**TIP**

Exploded View
=> [11-33 Cover - \(3\)](#)

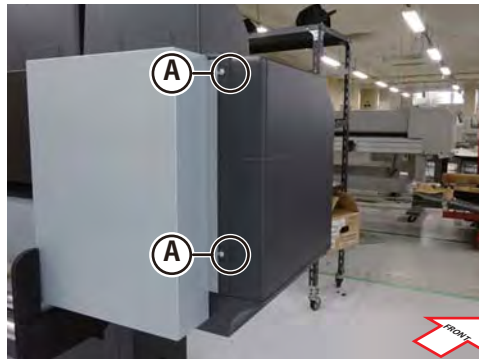


● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

1 Open front cover.

2 Remove screw(s).
A : Round Head Screw with Split Washer M4x10 (x2)



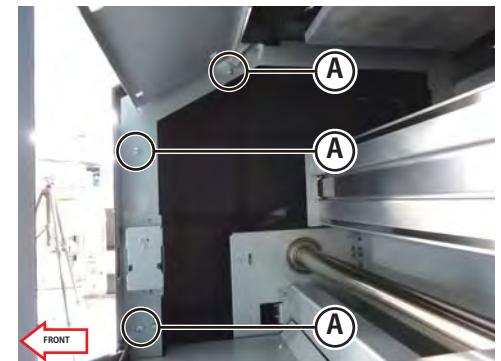
3 Remove screw(s).

A : PTight Bind Screw M4x12 (x2)



4 Remove screw(s).

A : PTight Bind Screw M4x12 (x3)



5 Remove side cover L.

6 To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.4 Side Cover R

This sub-section explains removal and assemble of titled part(s).

A : Side Cover R**TIP**

Exploded View
=> [11-33 Cover - \(3\)](#)

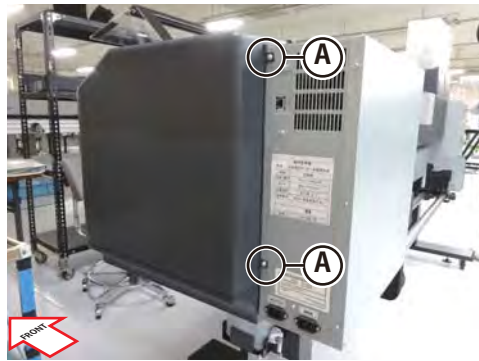


● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

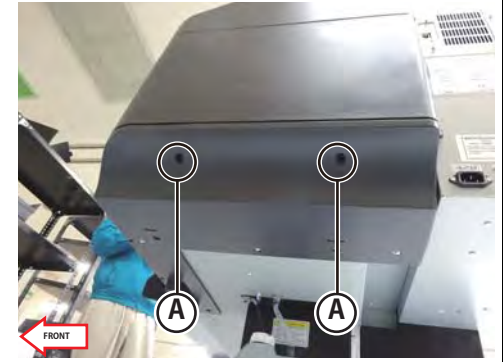
1 Open front cover.

2 Remove screw(s).
A : Round Head Screw with Split Washer M4x10 (x2)



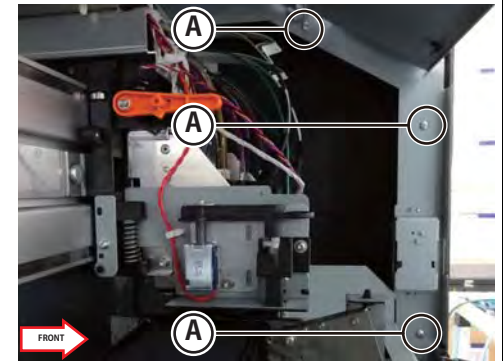
3 Remove screw(s).

A : PTight Bind Screw M4x12 (x2)



4 Remove screw(s).

A : PTight Bind Screw M4x12 (x3)



5 Remove side cover R.

6 To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.5 Panel Unit

This sub-section explains removal and assemble of titled part(s).

A : Panel UnitAssy

TIP

Exploded Viiew
=> [11-30 Panel](#)



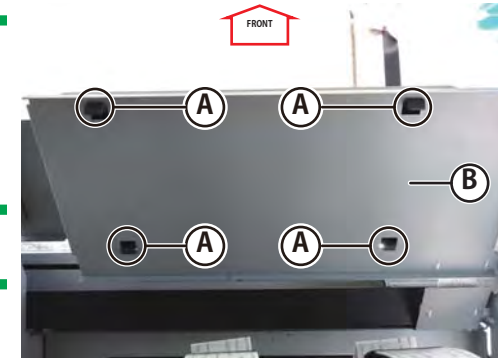
NOTE

Panel Unit is fixed with 4 latches in the front stay R.

A : Latch (x4)
B : Front Stay R

TIP

Exploded Viiew
=> [11-2 Frame - \(2\)](#)



● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
DG-49289	Panel UnitAssy	11-30 Panel 3.14 Panel
DG-49290	Panel FFCAssy	

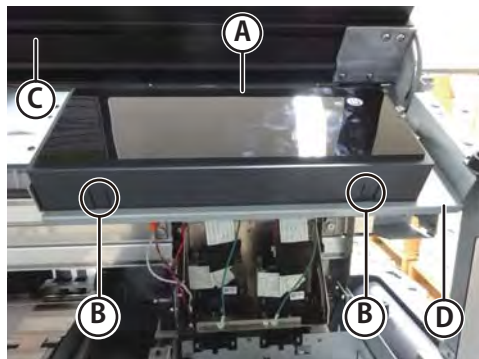
1 Open front cover.

2 Lift panel unit.

A : Panel Unit Assy
B : Latch (x2)
C : Front Cover
D : Front Stay R

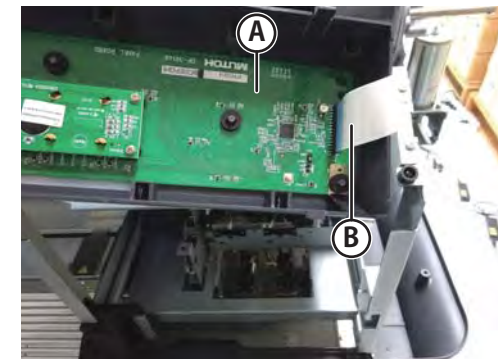
NOTE

- Press front latch(es) (x2).
- Lift the front portion.
- Pull the unit.



3 Remove panel FFC.

A : Panel UnitAssy - back side
B : Panel FFC Assy



4 Remove panel unit.

5 To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)
Alt + ← : Return to Previous Page

3.2.6 Front Cover

This sub-section explains removal and assembly of titled part(s).

A : Front Cover**TIP**

Exploded View
=> [11-32 Cover - \(2\)](#)



● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item
	Hex wrench 4mm	Generic Item

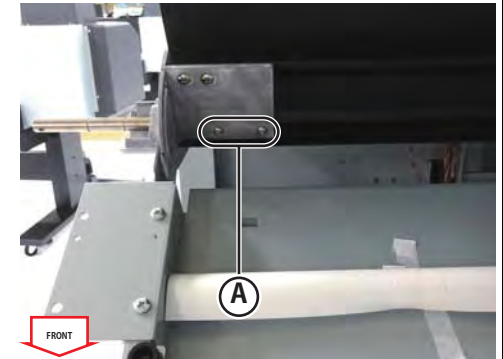
NOTE

本手順は 2 人で行います。

- 1** Remove side cover R.
=> [3.2.1 Maintenance Cover L](#)
- 2** Remove side cover L.
=> [3.2.4 Side Cover R](#)
- 3** Remove panel unit.
=> [3.2.5 Panel Unit](#)

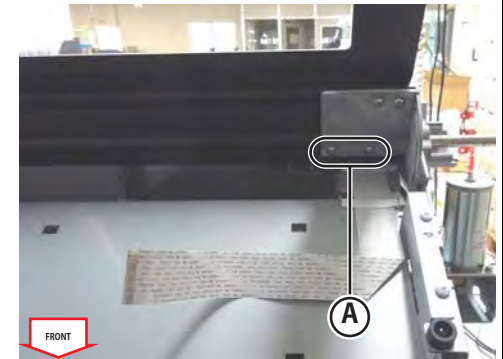
- 4** Remove screw(s).

A : Round Head Screw with Split Washer M3x5 (x2)



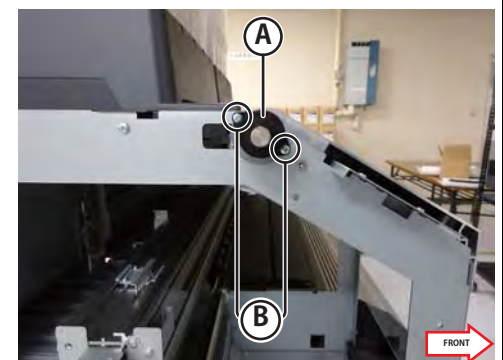
- 5** Remove screw(s).

A : Round Head Screw with Split Washer M3x5 (x2)



- 6** Remove screw(s).

A : Rotary Dumper 3NL
B : P Tight Bind M3x6 (x2)



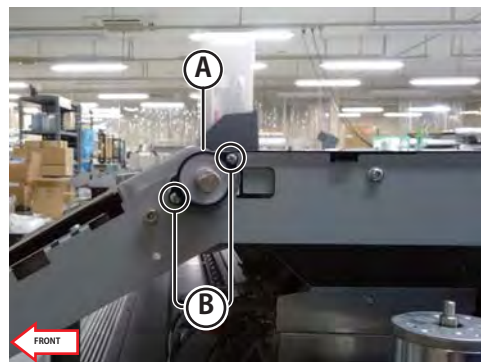
7 Remove rotary dumper 3NL.

A : Rotary Dumper 3NL



8 Remove screw(s).

A : Rotary Dumper 3NR
B : PTight Bind Screw M3x6 (x2)



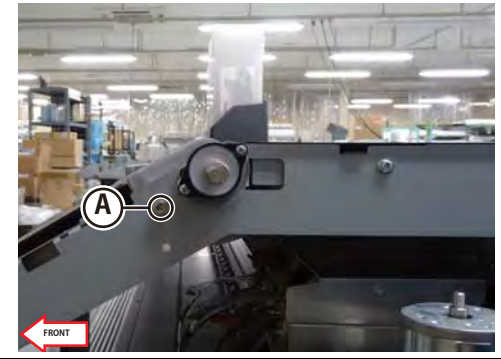
9 Remove rotary dumper 3NL.

A : Rotary Dumper 3NR



10 Remove stopper (R).

A : Stopper
Hexagon Socket Head Bolt
M4x10 (x1)



11 Remove stopper (L).

A : Stopper
Hexagon Socket Head Bolt
M4x10 (x1)

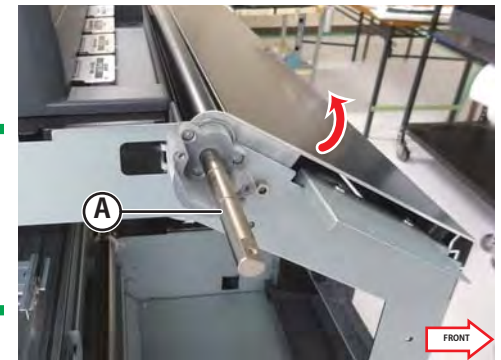


12 Remove front cover axis (L).

A : Front Cover axis

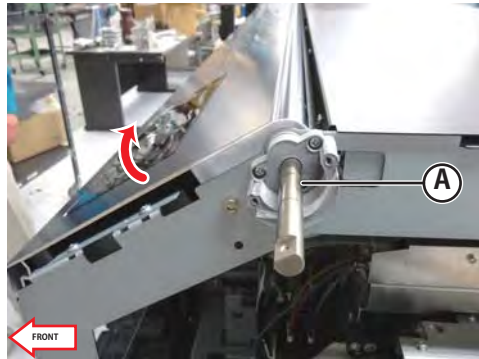
NOTE

- Open front cover by 3 centimeters.
- Do the job while another man holds the front cover.



13 Remove front cover axis (R).**A : Front Cover axis****NOTE**

- Open front cover by 3 centimeters.
- Do the job while another man holds the front cover.

**14** Remove front cover.**15** To Assemble unit, reverse the removal procedure.**TIP**Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.7 IH Cover

This sub-section explains removal and assemble of titled part(s).

A : IH Cover

TIP

Exploded Viiew
=> [11-25 IH - \(2\)](#)

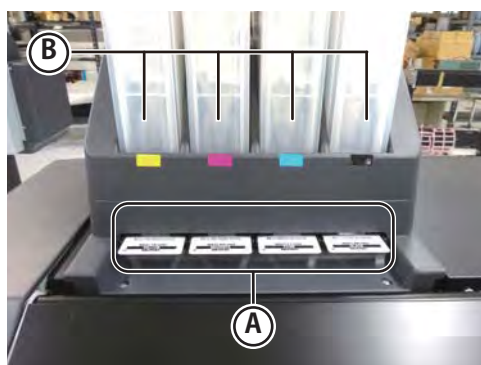


● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

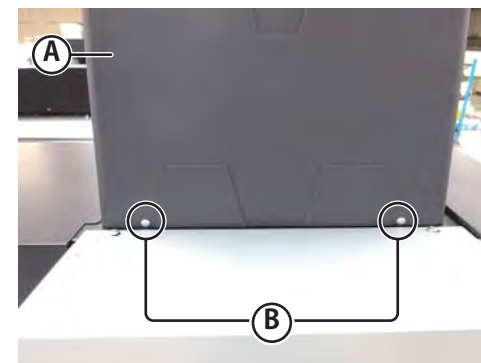
- 1** Remove S/C card(s).
- 2** Remove ink cartridge(s).

A : S/C Card(s)
B : Ink Cartridge(s)



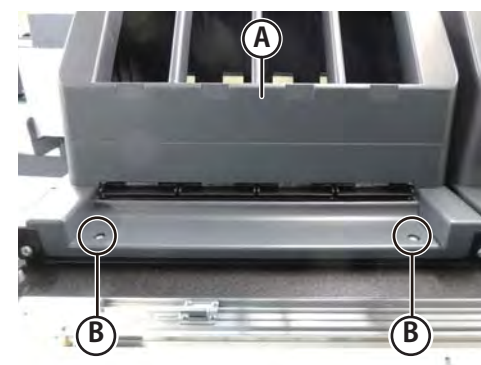
- 3** Remove screw(s).

A : IH Cover
B : S Tight Cup M3x8 (x2)



- 4** Remove screw(s).

A : IH Cover
B : S Tight Cup M3x8 (x2)



- 5** Remove IH Cover .

- 6** To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.8 Top Cover

This sub-section explains removal and assemble of titled part(s).

A : Top Cover

TIP

Exploded View
=> [11-32 Cover - \(2\)](#)



● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

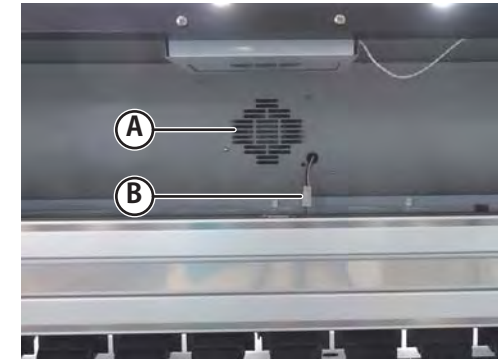
- 1 Remove side cover R.
=> [3.2.1 Maintenance Cover L](#)
- 2 Remove side cover L.
=> [3.2.4 Side Cover R](#)
- 3 Remove panel unit.
=> [3.2.5 Panel Unit](#)
- 4 Remove front cover.
=> [3.2.6 Front Cover](#)
- 5 Remove IH cover.
=> [3.2.7 IH Cover](#)

NOTE

- Removal of IH cover is recommended.
- You may remove top cover while IH cover remains.
- However, removal of top cover may scratch IH cover.

- 6 Remove the cable.

A : Exhaust Fan
B : Vacuum Fan Cable

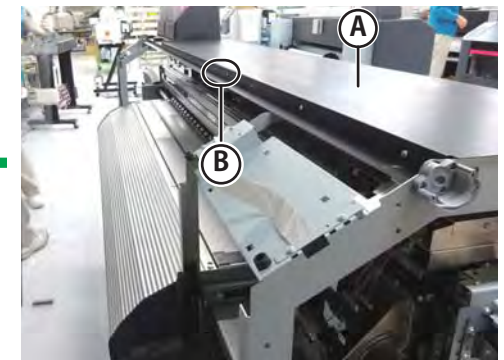


- 7 Remove screw(s).

A : Top Cover
B : Tap Tight S Bind M4x8 (x2)

NOTE

- Screw(s) B (x2) fix LED Light (right).
- LED Light falls free as the screw(s) removed.
- Hold LED Light (right) while removing the screw(s).

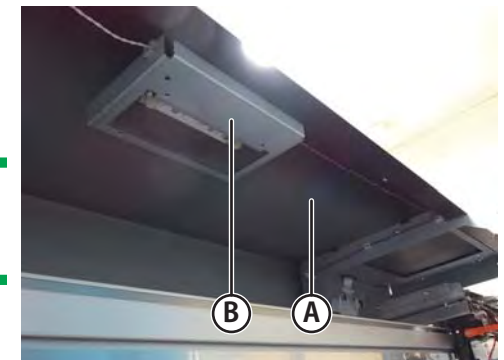


- 8 Remove LED Light.

A : Top Cover
B : LED Assy (X1)

NOTE

Remove one LED Light (right) in this job sequence.

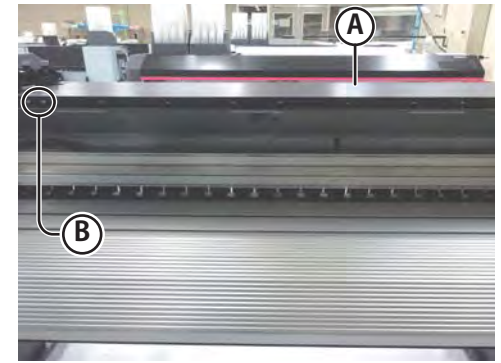


9 Remove the cable.

A : LED Light Cable 1
B : Saddle Clamp

**12** Remove screw(s).

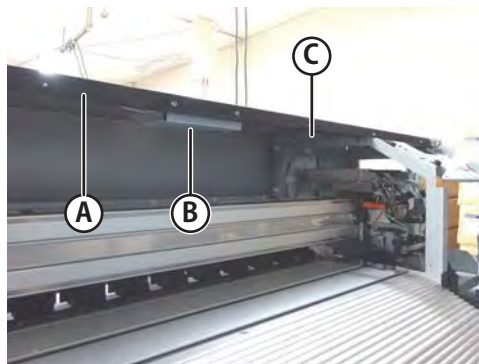
A : Top Cover
B : Tap Tight S Bind M4x8 (x1)

**10** Assemble LED Light.

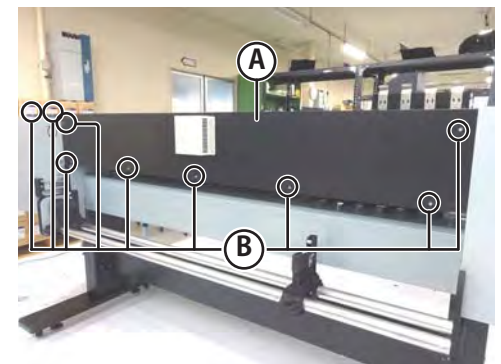
A : Top Cover
B : LED Assy (x1)
C : Clamp

NOTE

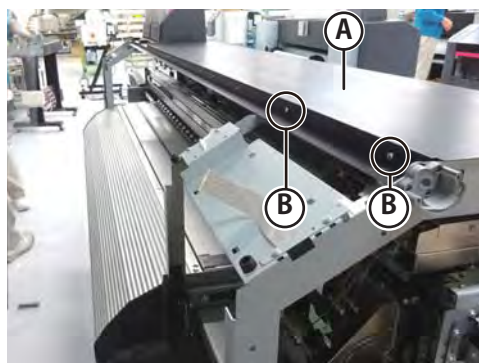
Attach the cable to clamp temporarily.

**13** Remove screw(s).

A : Top Cover
B : Tap Tight S Bind M4x8 (x9)

**11** Remove screw(s).

A : Top Cover
B : Tap Tight S Bind M4x8 (x2)

**14** Remove top cover.

A : Top Cover

NOTE

Removal from the back side is recommended.

**15** To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.9 Bottom Cover R

This sub-section explains removal and assemble of titled part(s).

A : Bottom Cover R

TIP

Exploded View
=> [11-33 Cover - \(3\)](#)



● Tools, Jigs, and Maintenance Part(s)

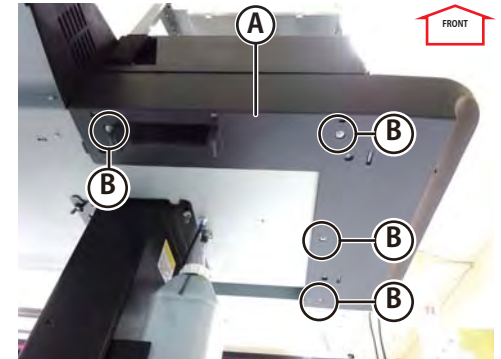
Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

1 Remove maintenance cover R.
=> [3.2.2 Maintenance Cover R](#)

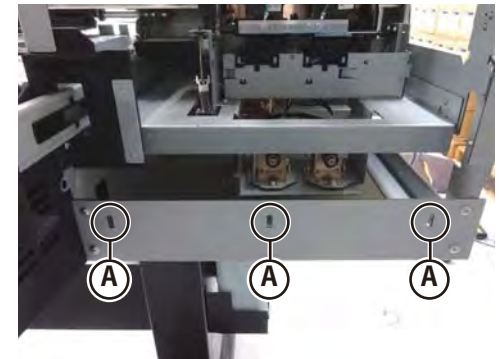
2 Remove screw(s).
A : S Tight Cup M4x12 (x2)



3 Remove screw(s).
A : Bottom Cover R
B : S Tight Cup M4x10(x4)



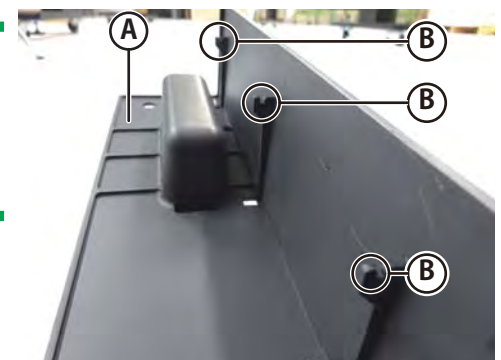
4 Remove bottom cover R.
A : Latch Hole (x3)



NOTE

Bottom cover is fixed with latch(es) (x3) in the frame.

A : Bottom Cover
B : Latch (x3)



5 To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.10 Bottom Cover L

This sub-section explains removal and assemble of titled part(s).

A : Bottom Cover L

TIP

Exploded View
=> [11-33 Cover - \(3\)](#)



● Tools, Jigs, and Maintenance Part(s)

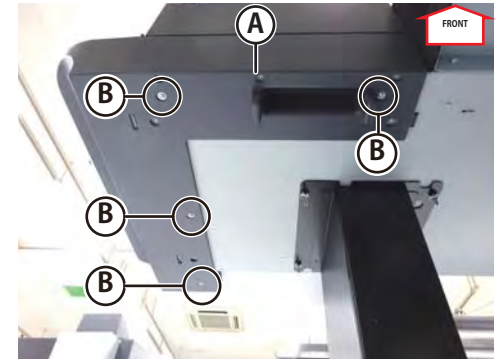
Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

- 1** Remove maintenance cover L.
=> [3.2.1 Maintenance Cover L](#)

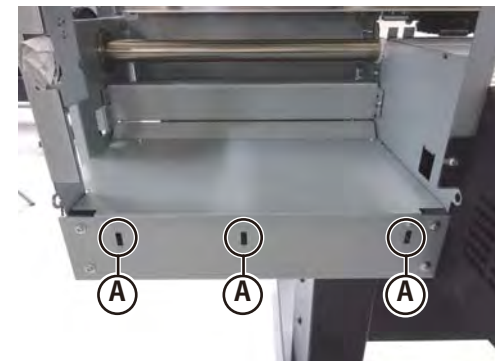
- 2** Remove screw(s).
A : S Tight Cup M4x12 (x2)



- 3** Remove screw(s).
A : Bottom Cover L
B : S Tight Cup M4x10 (x4)



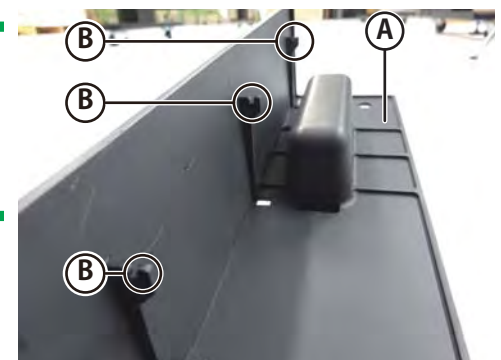
- 4** Remove bottom cover L.
A : Latch Hole (x3)



NOTE

Bottom cover is fixed with latch(es) (x3) in the frame.

A : Bottom Cover
B : Latch (x3)



- 5** To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.11 Subtank Cover

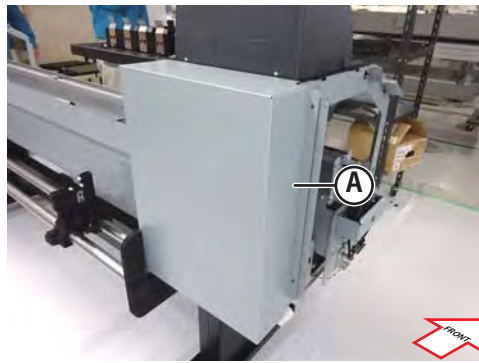
This sub-section explains removal and assemble of titled part(s).

A : Subtank Cover**TIP**

Exploded Viiew

=> **11-33 Cover - (3)**

=> **11-2 Frame - (2)**

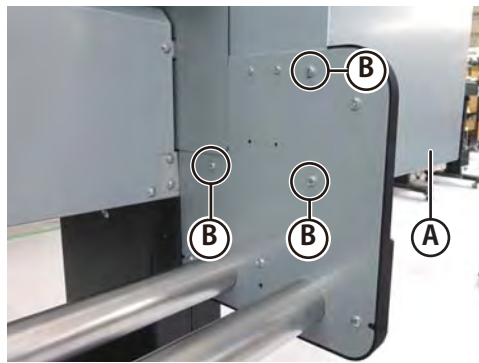


● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

- 1** Remove side cover L.
=> **3.2.3 Side Cover L**

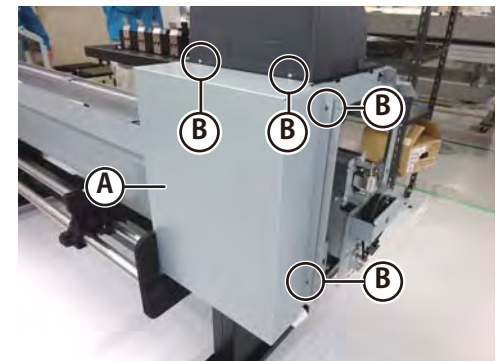
- 2** Remove screw(s).
A : Subtank Cover
B : S Tight Cup M4x6 (x3)



- 3** Remove screw(s).
A : Subtank Cover
B : S Tight Cup M4x6 (x2)



- 4** Remove screw(s).
A : Subtank Cover
B : S Tight Cup M4x6 (x4)



- 5** Remove Subtank cover.
A : Subtank Cover

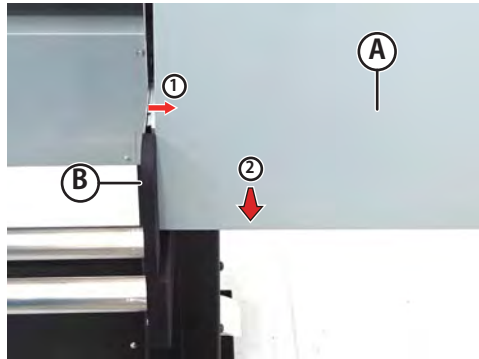


NOTE

- Move Subtank cover to the right.
- Pull the cover.
- Prevent interference with shaft stopper.

A : Subtank Cover

B : Shaft Stopper L



6 To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

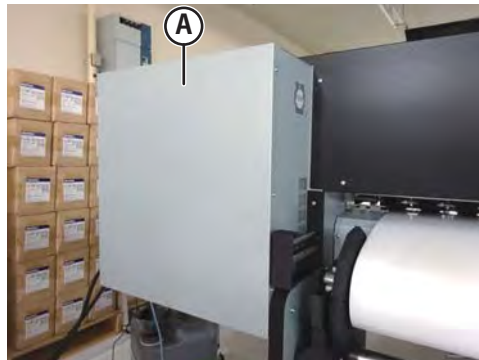
Alt + ← : Return to Previous Page

3.2.12 Board Box Cover

This sub-section explains removal and assemble of titled part(s).

A : Board Box Cover
TIP

Exploded Viiew
=> [11-28 Board Box](#)

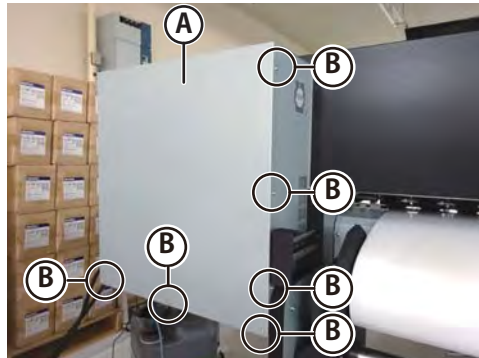

● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

1 Remove all the AC cables.

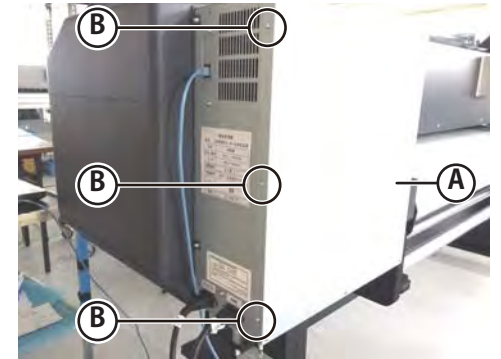
2 Remove screw(s).

A : Board Box Cover
B : Round Head Screw with Split Washer M3x6 (x6)



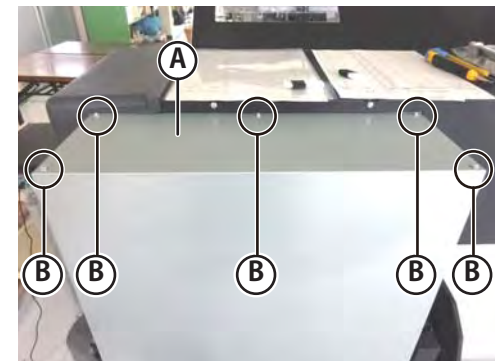
3 Remove screw(s).

A : Board Box Cover
B : Round Head Screw with Split Washer M3x6 (x3)



4 Remove screw(s).

A : Board Box Cover
B : Round Head Screw with Split Washer M3x6 (x5)



5 Remove board box cover.

A : Board Box Cover

6 To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.13 Paper Guide Cover R

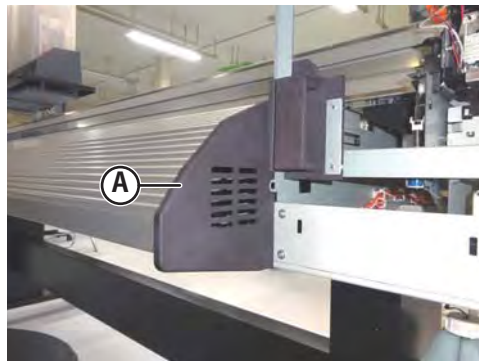
This sub-section explains removal and assemble of titled part(s).

A : Paper Guide Cover R

TIP

Exploded Viiew

=> [11-33 Cover - \(3\)](#)

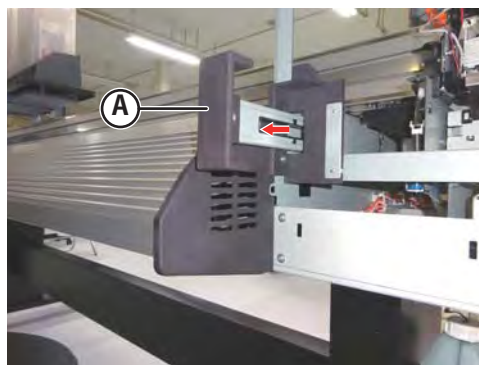


● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

- 1** Open front cover.
- 2** Remove maintenance cover R.
=> [3.2.2 Maintenance Cover R](#)
- 3** Remove bottom cover R.
=> [3.2.9 Bottom Cover R](#)

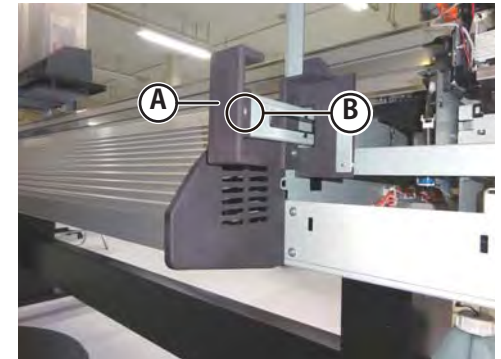
- 4** Pull pressure lever.
A : Pressure Lever



- 5** Remove screw(s).

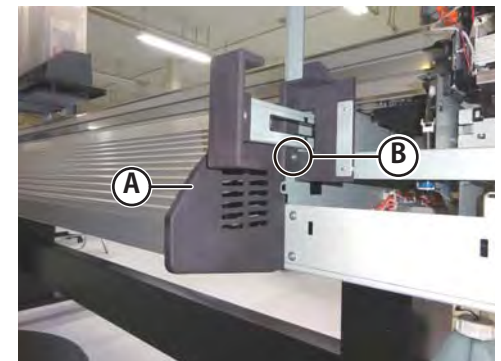
A : Pressure Lever Knob
B : Round Head Screw with Split Washer M4x8 (x1)

- 6** Remove pressure lever knob.



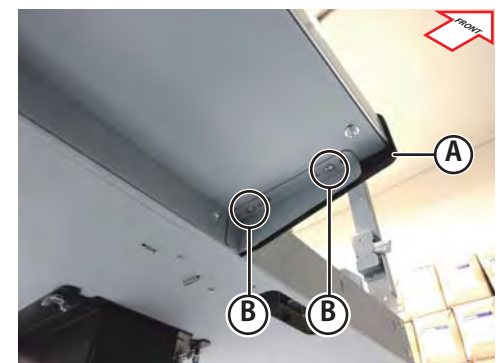
- 7** Remove screw(s).

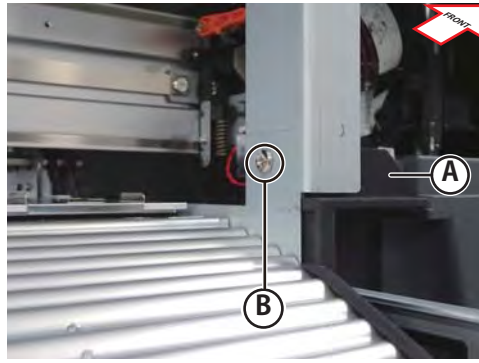
A : Paper Guide Cover R
B : S Tight Cup M4x10 (x1)



- 8** Remove screw(s).

A : Paper Guide Cover R
B : PTight Bind ScrewM4x10 (x2)



9 Remove screw(s).**A** : Paper Guide Cover R**B** : PTight Bind ScrewM4x10 (x1)**10** Remove Paper Guide Cover R.**11** To Assemble unit, reverse the removal procedure.**TIP**Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

3.2.14 Paper Guide Cover L

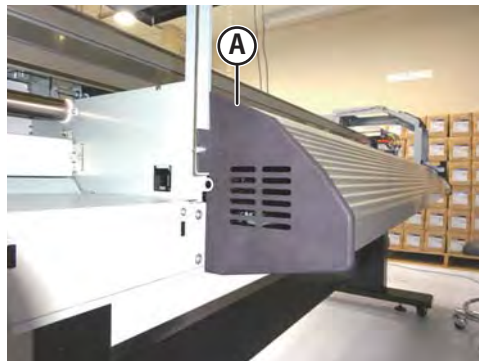
This sub-section explains removal and assemble of titled part(s).

A : Paper Guide Cover L

TIP

Exploded View

=> [11-33 Cover - \(3\)](#)

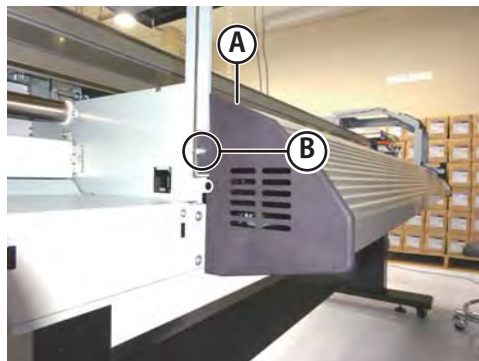


● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

- 1** Open front cover.
- 2** Remove maintenance cover L.
=> [3.2.1 Maintenance Cover L](#)
- 3** Remove bottom cover L.
=> [3.2.10 Bottom Cover L](#)

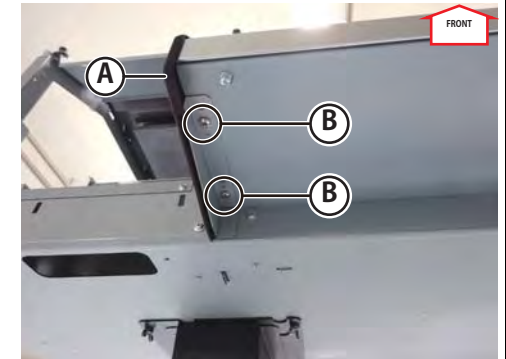
- 4** Remove screw(s).
A : Paper Guide Cover L
B : S Tight Cup ScrewM4x10 (x1)



- 5** Remove screw(s).

A : Paper Guide Cover L

B : PTight Bind ScrewM4x10 (x2)



- 6** Remove Paper Guide Cover L.

- 7** To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)

Alt + ← : Return to Previous Page

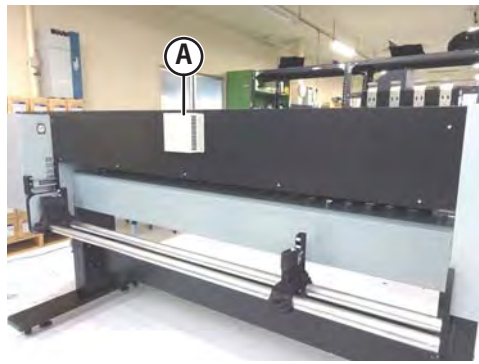
3.2.15 Exhaust Fan Cover

This sub-section explains removal and assemble of titled part(s).

A : Exhaust Fan Cover**TIP**

Exploded Viiew

=> [11-32 Cover - \(2\)](#)



● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

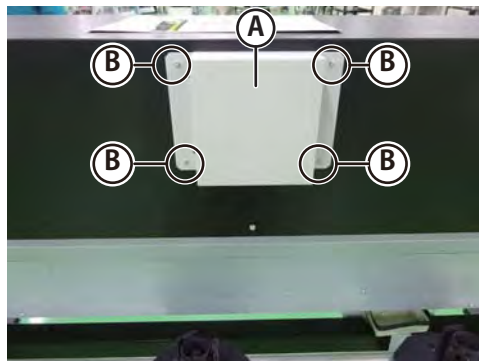
1 Remove screw(s).

A : Exhaust Fan Cover

B : S Tight Bind M3x6 (x4)

NOTE

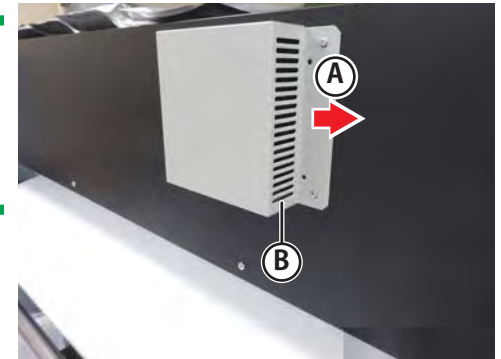
- Exhaust Fan Cover may fall free as the screw(s) removed.
- Hold the cover while removing the screw(s).

**NOTE**

Attach the cover of which port faces the arrow direction.

A : Blow direction

B : Exhaust Port

**TIP**

Related issue => [3.15.3 Exhaust Fan](#)

Section Top => [3.2 Covers - Remove / Assemble](#)

Chapter TOC=> [3 Parts Replacement](#)

Alt + ← : Return to Previous Page

2 Remove exhaust fan cover.**3** To Assemble unit, reverse the removal procedure.

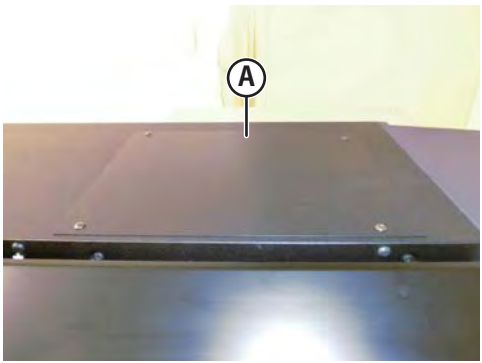
3.2.16 Upper Tray

This sub-section explains removal and assemble of titled part(s).

A : Upper Tray
A : Upper Cover

TIP

Exploded Viiew
=> [11-33 Cover - \(2\)](#)

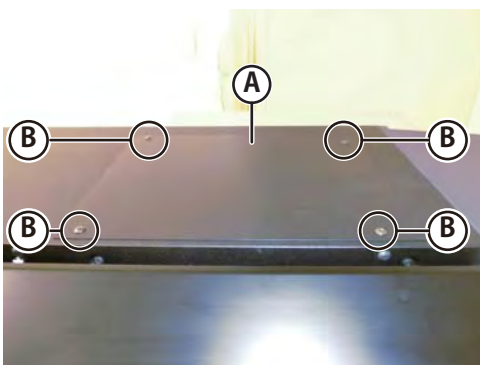


● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
	Phillips Screwdriver No.2	Generic Item

1 Remove screw(s).

A : Upper Tray
B : Tap Tight S Bind M4x8 (x4)



2 Remove upper tray.
3 Remove upper cover.

4 To Assemble unit, reverse the removal procedure.

TIP

Section Top => [3.2 Covers - Remove / Assemble](#)
Chapter TOC=> [3 Parts Replacement](#)
Alt + ← : Return to Previosu Page

3.3 Frame

3.3.1 Maintenance Part(s)

TIP

Exploded Viiew

=> [11-1 Frame - \(1\)](#)

=> [11-2 Frame - \(2\)](#)

Name	Reference
CR HP Sensor, Lever Sensor	3.3.2 Lever Sensor

TIP

Index by Section=> [3.1 Introduction](#)

Alt + ← : Return to Previosu Page

3.3.2 Lever Sensor

This sub-section explains removal and assemble of titled part(s).

A : CR HP Sensor, Lever Sensor

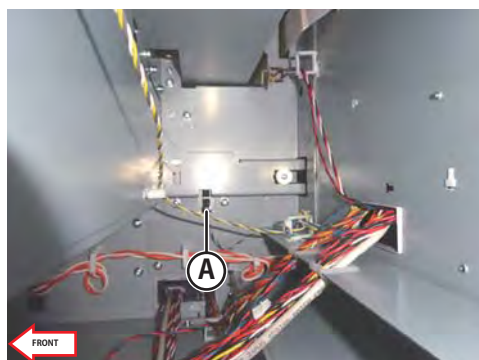
TIP

Exploded View

=> [11-2 Frame - \(2\)](#)

Electric Diagram

=> [11-4 Electric Diagram](#)



● Tools, Jigs, and Maintenance Part(s)

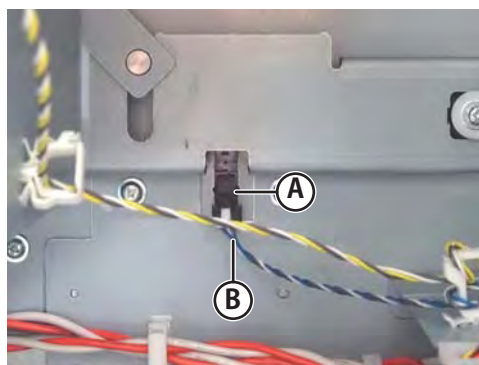
Maintenance Part(s) No.	Name	Reference
DF-49471	CR HP Sensor, Lever Sensor	
	Phillips Screwdriver No.2	Generic Item
	Round nose Pliers	Generic Item
	Thread Locker	Three Bond 1401

- 1** Remove side cover R.
=> [3.2.4 Side Cover R](#)

- 2** Remove the cable.

A : CR HP Sensor, Lever Sensor

B : [3.18.13 Lever Sensor Cable](#)



- 3** Remove Paper Guide R lid.

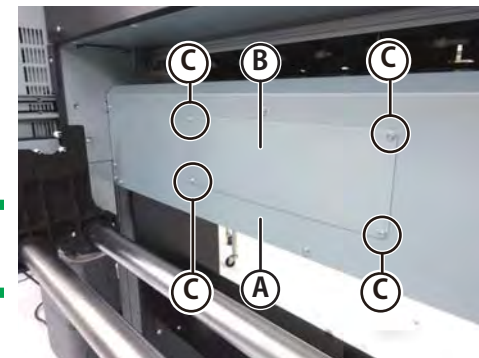
A : Paper Guide R

B : Paper Guide R Lid (x1)

C : S Tight Cup M3x6 (x4)

TIP

=> [11-27 Paper Guide - \(2\)](#)



- 4** Release hook(s).

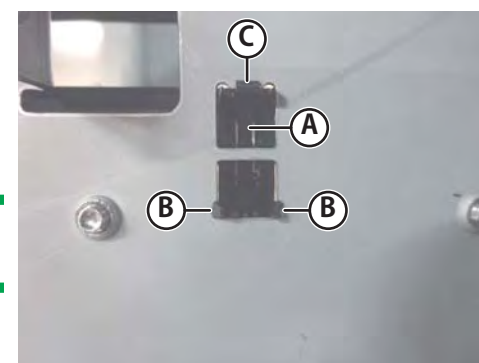
A : CR HP Sensor, Lever Sensor

B : Hook 1-2

C : Hook 3

NOTE

Apply round nose Pliers.



- 5** Remove lever sensor.

- 6** To Assemble unit, reverse the removal procedure.

NOTE

Apply thread locker.



TIP

Section Top => [3.3 Frame](#)

Alt + ← : Return to Previous Page

3.4 PF

3.4.1 Maintenance Part(s)

TIP

Exploded Viiew

=> [11-3 PF - \(1\)](#)

=> [11-4 PF - \(2\)](#)

=> [11-5 PF - \(3\)](#)

Name	Reference
PF-ENC Scale	3.4.2 PF-ENC Scale
X Speed Reduction Belt	3.4.3 X Speed Reduction Belt
PF Speed Reduction Pouly	3.4.4 PF Speed Reduction Pouly
PF Motor ASSY	3.4.5 PF Motor
PF Encoder Assy	3.4.6 PF Encoder

TIP

Index by Section=> [3.1 Introduction](#)

Alt + ← : Return to Previosu Page

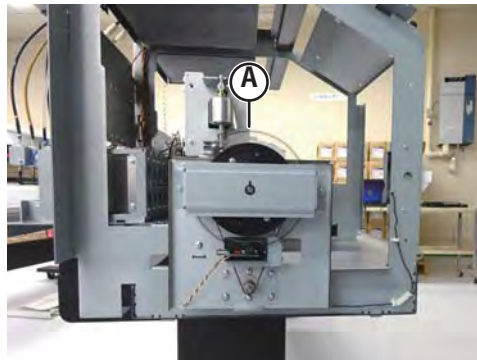
3.4.2 PF-ENC Scale

This sub-section explains removal and assembly of titled part(s).

A : PF-ENC Scale

TIP

Exploded View
=> [11-5 PF - \(3\)](#)



● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
DG-40320	PF-ENC Scale	11-5 PF - (3)
	Phillips Screwdriver No.2	Generic Item

- 1** Remove maintenance cover L.
=> [3.2.1 Maintenance Cover L](#)
- 2** Remove side cover L.
=> [3.2.3 Side Cover L](#)
- 3** Remove bottom cover L.
=> [3.2.10 Bottom Cover L](#)

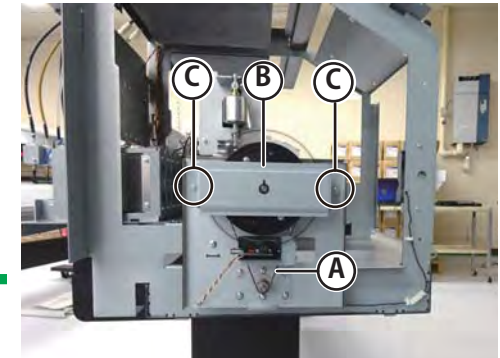
- 4** Remove screw(s).

A : X Speed Reduction Belt
B : Grid Roller Holder
C : Round Head Screw with Split Washer M4x8 (x2)

- 5** Remove Grid Roller holder.

NOTE

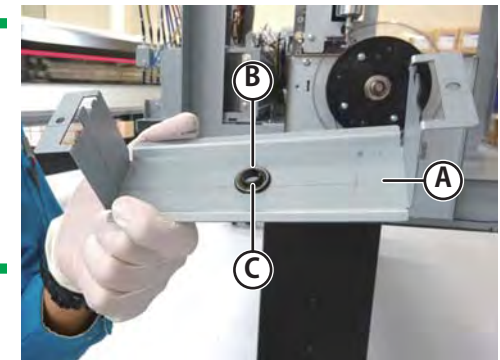
- Grid roller holder falls free when screw(s) are removed.
- Remove screw(s) while holding the holder..



NOTE

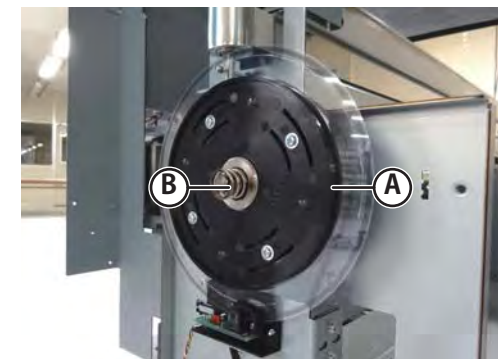
- B and C are attached to grid roller holder.
- Do not drop B and C. Grid Roller Holder

D : Polyslider 1218
E : PF thrust spring guide



- 6** Remove spring.

A : PF Scale Holder
B : PF Thrust Spring 2

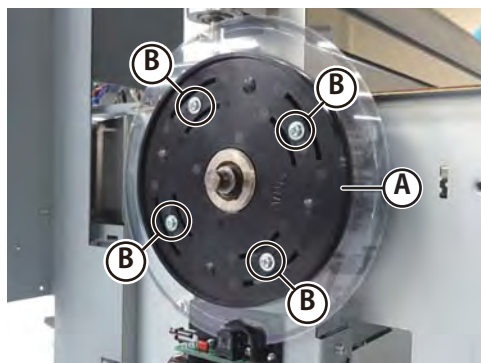


7 Remove screw(s).

A : PF Scale Holder

B : P Tight Cup M3x8 (x4)

8 Remove PF scale holder.

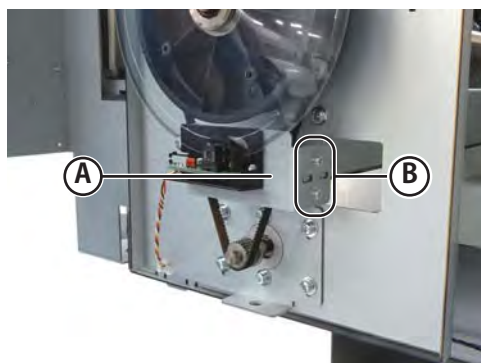


9 Remove screw(s).

A : PF Encoder Mounting Plate

B : Round Head Screw with Split Washer M3x8 (x2)

10 Remove PF encoder mounting plate.

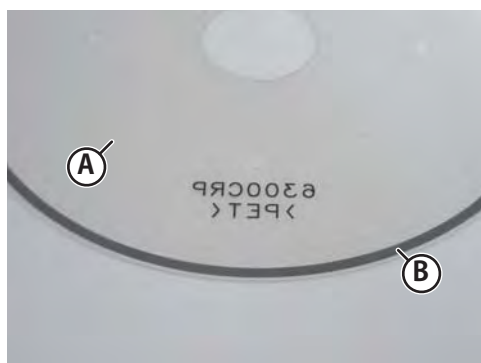


NOTE

Do not touch grey area of PF encoder scale.

A : PF Encoder

B : Grey Area



11 Remove PF encoder scale.

A : PF Encoder Scale



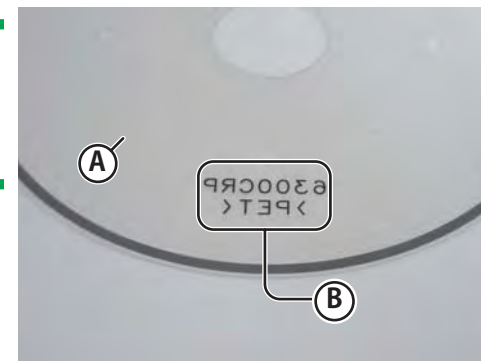
12 To Assemble unit, reverse the removal procedure.

NOTE

Reverse character is the right side.

A : PF Encoder

B : Reverse character

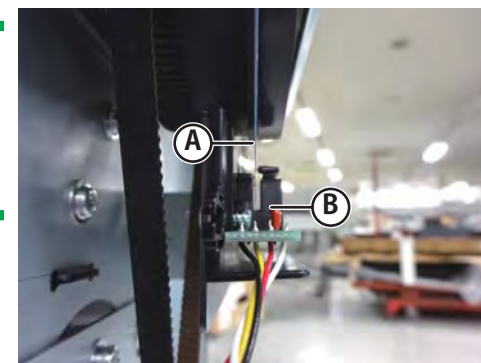


NOTE

PF Encoder Scale and PF Encoder must not interfere each other.

A : PF Encoder Scale

B : PF Encoder



TIP

Section Top => [3.4 PF](#)

Alt + ← : Return to Previous Page

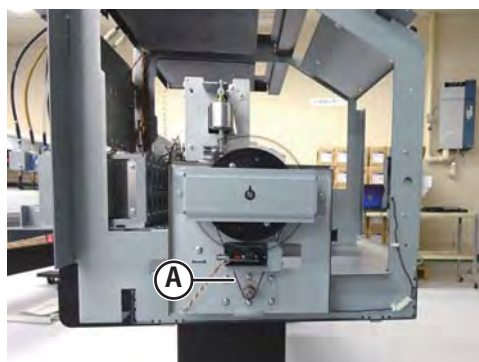
3.4.3 X Speed Reduction Belt

This sub-section explains removal and assemble of titled part(s).

A : X Speed Reduction Belt

TIP

Exploded Viiew
=> [11-5 PF - \(3\)](#)



● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
DF-43883	X Speed Reduction Belt	11-5 PF - (3)
	Phillips Screwdriver No.2	Generic Item
	Hex Wrench (3mm)	Generic Item
	Tension Gauge	Generic Item Max 40N (4,080gf)

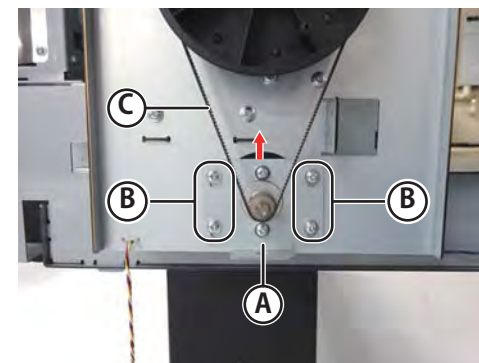
- 1** Remove maintenance cover L.
=> [3.2.1 Maintenance Cover L](#)
- 2** Remove side cover L.
=> [3.2.3 Side Cover L](#)
- 3** Remove bottom cover L.
=> [3.2.10 Bottom Cover L](#)

- 4** Remove PF Encoder Scale.
=> [3.4.2 PF-ENC Scale](#)

- 5** Loosen screw(s).

A : PF Motor Mount Plate
B : Round Head Screw with Split Washer M4x8 (x4)
C : X Speed Reduction Belt

- 6** Push up PF motor mount plate.
- 7** Remove X Speed Reduction Belt.



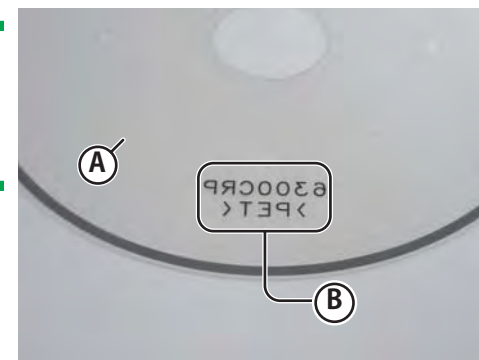
- 8** To Assemble unit, reverse the removal procedure.

- 9** Adjust tension of the belt.
=> [4.4 X Speed Reduction Belt Tension](#)

NOTE

Reverse charactor is the roght side.

A : PF Encoder
B : Reverse charactor

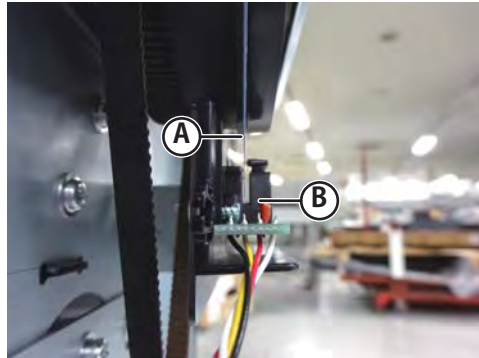


NOTE

PF Encoder Scale and PF Encoder must not interfere each other.

A : PF Encoder Scale

B : PF Encoder

**TIP**

Section Top => [3.4 PF](#)

Alt + ← : Return to Previous Page

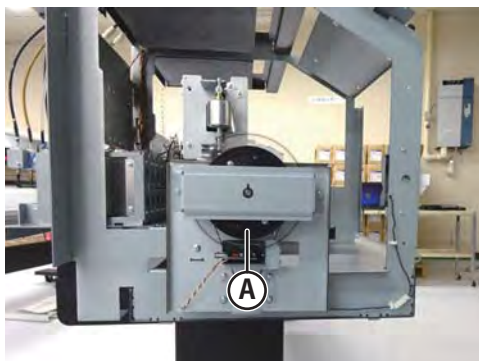
3.4.4 PF Speed Reduction Pouly

This sub-section explains removal and assemble of titled part(s).

A : PF Speed Reduction Pouly

TIP

Exploded Viiew
=> [11-5 PF - \(3\)](#)



● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
DG-42991	PF Speed Reduction Pouly	11-5 PF - (3)
	Phillips Screwdriver No.2	Generic Item
	Snap Ring Plyers	Generic Item
	Hex Wrench (3mm)	Generic Item
	Tension Gauge	Generic Item Max 40N (4,080gf)

1 Remove maintenance cover L.
=> [3.2.1 Maintenance Cover L](#)

2 Remove side cover L.
=> [3.2.3 Side Cover L](#)

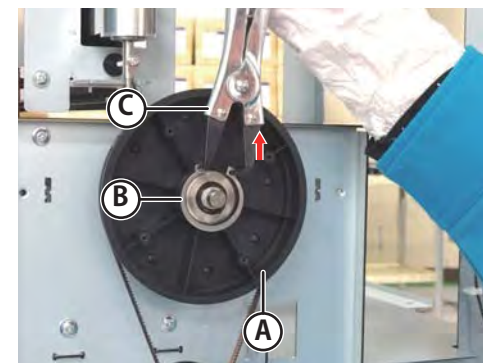
3 Remove bottom cover L.
=> [3.2.10 Bottom Cover L](#)

4 Remove Subtank cover.
=> [3.2.11 Subtank Cover](#)

5 Remove PF Encoder Scale.
=> [3.4.2 PF-ENC Scale](#)

6 Remove X Speed Reduction Belt.
=> [3.4.3 X Speed Reduction Belt](#)

7 Remove C ring.
A : PF Speed Reduction Pouly
B : C Ring
C : Snap Ring Plyers



8 Remove PF speed reduction pouly.
A : PF Speed Reduction Pouly
B : Grid Roller

⚠ CAUTION

- Do not move grid roller while removing.
- Grid roller gets damaged when it moves.



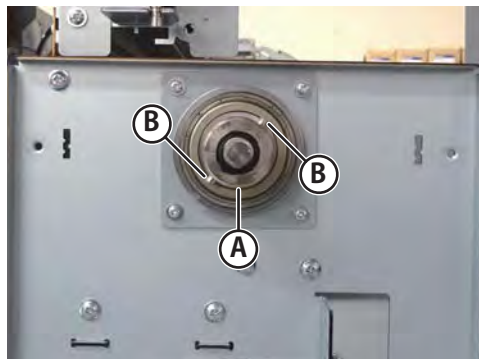
9 To Assemble unit, reverse the removal procedure.

10 Adjust tension of the belt.
=> [4.4 X Speed Reduction Belt Tension](#)

NOTE

Pouly notch must meet spring pin.

A : Grid Roller
B : Spring Pin 4x36

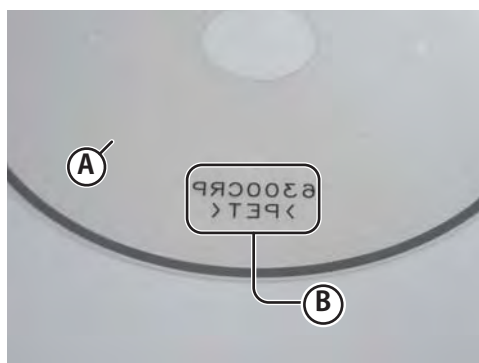
**CAUTION**

- Do not move grid roller while fixing.
- Grid roller gets damaged when it moves.

**NOTE**

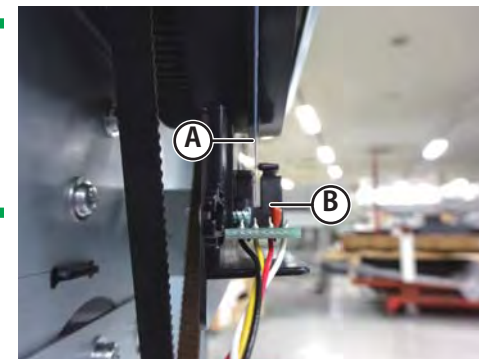
Reverse character is the right side.

A : PF Encoder
B : Reverse character

**NOTE**

PF Encoder Scale and PF Encoder must not interfere each other.

A : PF Encoder Scale
B : PF Encoder

**TIP**

Section Top => [3.4 PF](#)

Alt + ← : Return to Previous Page

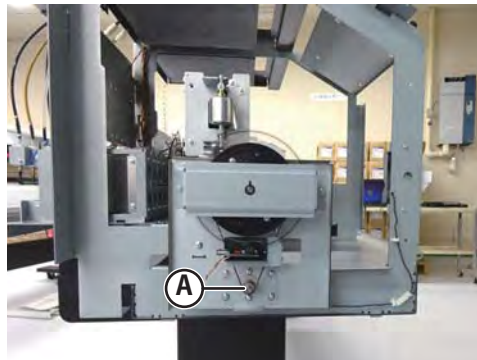
3.4.5 PF Motor

This sub-section explains removal and assembly of titled part(s).

A : PF Motor ASSY

TIP

Exploded View
=> **11-5 PF - (3)**



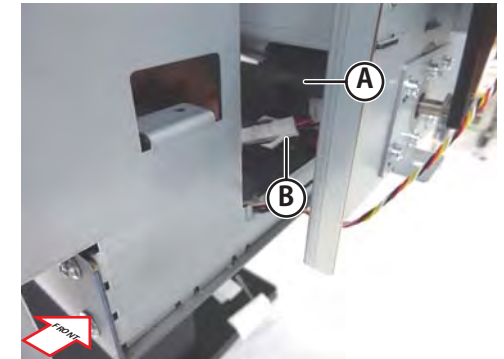
● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
DF-49020	PF Motor ASSY	11-5 PF - (3)
	Phillips Screwdriver No.2	Generic Item
	Hex Wrench (3mm)	Generic Item
	Tension Gauge	Generic Item Max 40N (4,080gf)

- 1** Remove maintenance cover L.
=> **3.2.1 Maintenance Cover L**
- 2** Remove side cover L.
=> **3.2.3 Side Cover L**
- 3** Remove bottom cover L.
=> **3.2.10 Bottom Cover L**

- 4** Remove connector.

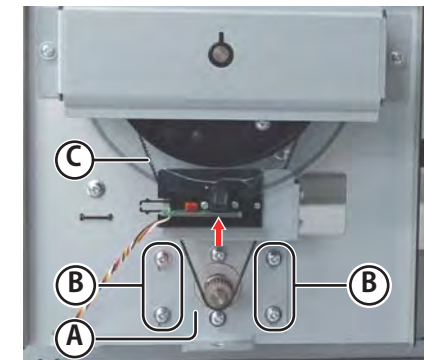
A : PF Motor
B : Connector



- 5** Loosen screw(s).

A : PF Motor Mount Plate
B : Round Head Screw with Split Washer M4x8 (x4)
C : X Speed Reduction Belt

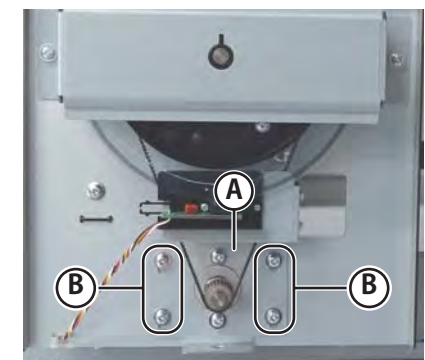
- 6** Push up PF motor mount plate.
- 7** Remove the belt from D.



- 8** Remove screw(s).

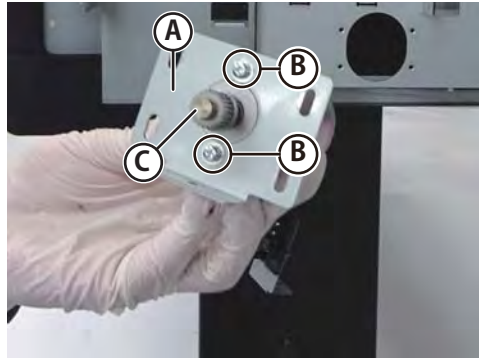
A : PF Motor Mount Plate
B : Round Head Screw with Split Washer M4x8 (x4)

- 9** Remove PF motor mount plate.



10 Remove screw(s).

- A** : PF Motor Mount Plate
B : Round Head Screw with Split Washer M4x8 (x2)
C : PF Motor



11 Remove PF motor.

12 Remove the PF motor cable.

13 To Assemble unit, reverse the removal procedure.

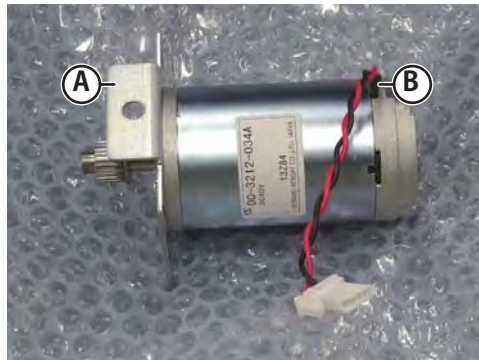
14 Adjust tension of the belt.

=> [4.4 X Speed Reduction Belt Tension](#)

NOTE

Cable and protrusion of plate must face the same direction.

- A** : Protrusion of plate
B : PF Motor Cable



TIP

Section Top => [3.4 PF](#)

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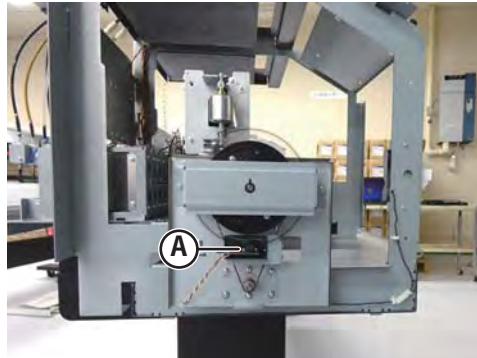
3.4.6 PF Encoder

This sub-section explains removal and assemble of titled part(s).

A : PF Encoder Assy

TIP

Exploded Viiew
=> [11-5 PF - \(3\)](#)



● Tools, Jigs, and Maintenance Part(s)

Maintenance Part(s) No.	Name	Reference
DG-49252	PF Encoder Assy	11-5 PF - (3)
	Phillips Screwdriver No.2	Generic Item

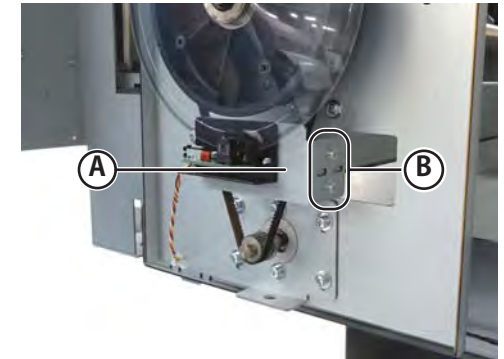
- 1** Remove maintenance cover L.
=> [3.2.1 Maintenance Cover L](#)
- 2** Remove side cover L.
=> [3.2.3 Side Cover L](#)
- 3** Remove bottom cover L.
=> [3.2.10 Bottom Cover L](#)
- 4** Remove Subtank cover.
=> [3.2.11 Subtank Cover](#)
- 5** Remove Paper Guide R.
=> [3.2.13 Paper Guide Cover R](#)
- 6** Remove side cover R.
=> [3.2.4 Side Cover R](#)
- 7** Remove board box cover.
=> [3.2.12 Board Box Cover](#)

© Tight Pan

- 8** Remove screw(s).

A : PF Encoder Mounting Plate
B : Round Head Screw with Split Washer M3x8 (x2)

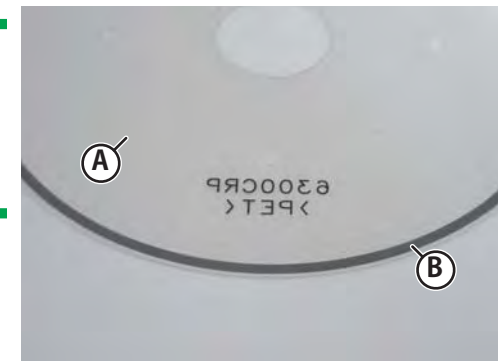
- 9** Remove PF encoder mounting plate.



NOTE

Do not touch grey area of PF encoder scale.

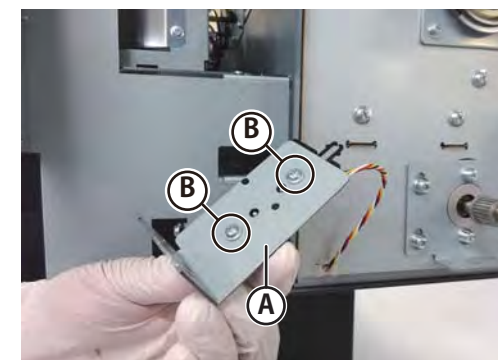
A : PF Encoder
B : Grey Area



- 10** Remove screw(s).

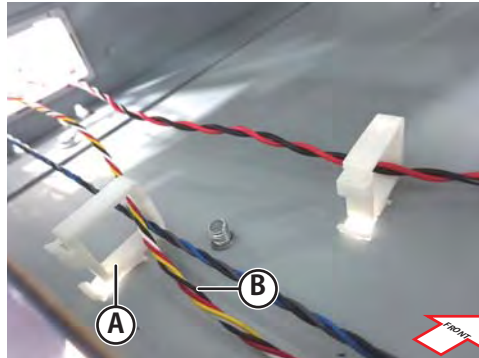
A : PF Encoder Mounting Plate
B : P Tight Pan M2.6x6 (x2)

- 11** Remove PF encoder.



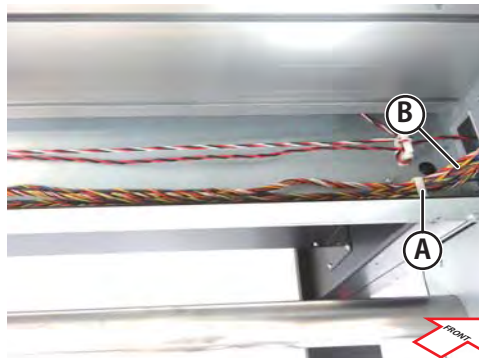
12 Release the cable from clamp(s) on its path.

A : Clamp
B : PF Encoder Cable



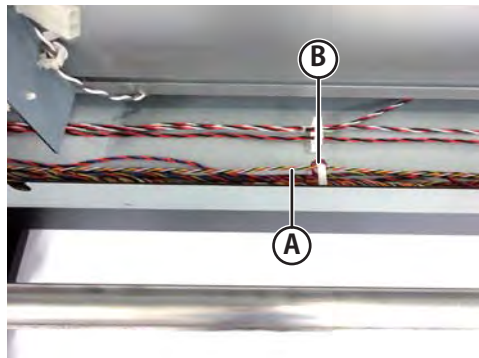
13 Release the cable from clamp(s) on its path.

A : Clamp
B : PF Encoder Cable



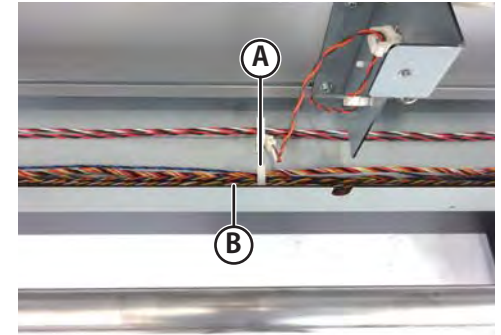
14 Release the cable from clamp(s) on its path.

A : Clamp
B : PF Encoder Cable



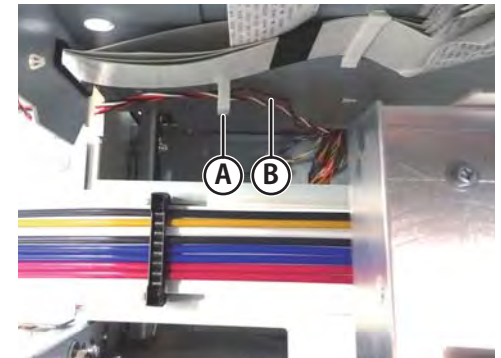
15 Release the cable from clamp(s) on its path.

A : Clamp
B : PF Encoder Cable



16 Release the cable from clamp(s) on its path.

A : Clamp
B : PF Encoder Cable



17 Remove the cable from MAIN board.
=> J26 [3.12.8 MAIN Board](#)

18 To Assemble unit, reverse the removal procedure.

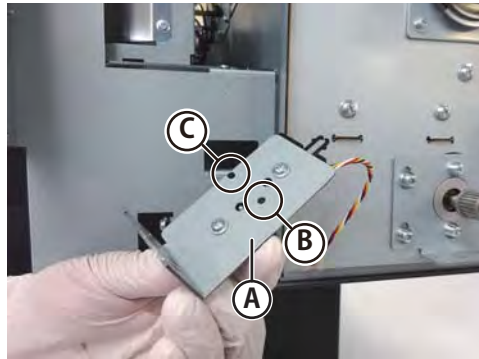
NOTE

Boss and notch must match each other.

A : PF Encoder Mounting Plate

B : Boss

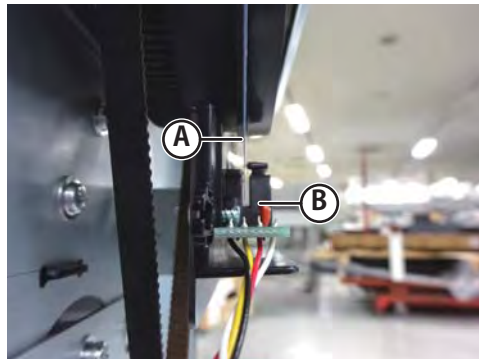
C : Notch

**NOTE**

PF Encoder Scale and PF Encoder must not interfere each other.

A : PF Encoder Scale

B : PF Encoder

**TIP**

Section Top => [3.4 PF](#)

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