



Before installing the unit



Be sure to install the carriage unit by the date printed on the bar code seal.
If you do not, this can adversely affect the ink in the cartridges and the preservative liquid in the head tank, which can cause image quality problems.

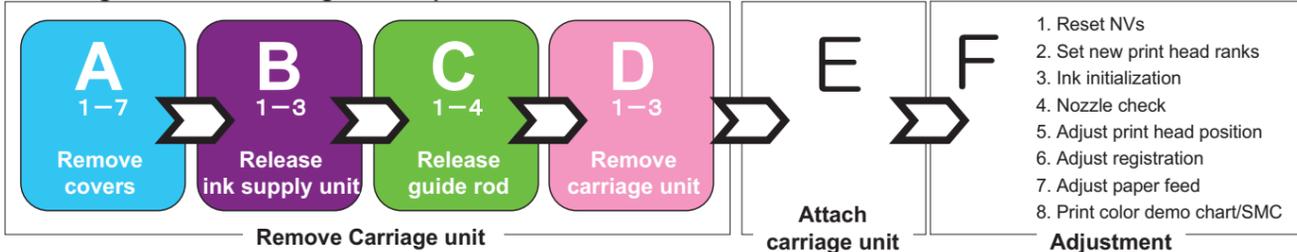
Caution

1. Make sure to turn off the printer main power before beginning the replacement.
2. Do not touch the print head nozzle, as this may cause the print quality to decrease.
3. Do not touch the ink level feeler, as this may cause ink leaks.
4. If ink drips onto the belt, clean it off with a soft cloth.

Accessories

Refer to the Appendix: Accessories.

Following is the overall carriage units replacement flow.



A-1 Remove paper tray

Remove the paper tray.



A-2 Remove output tray

Remove the output tray by pushing the hinges on both sides.

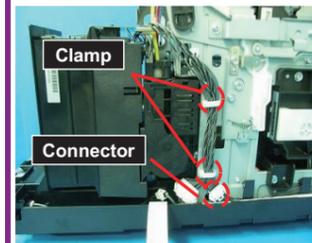


A-3 Remove inner/upper covers

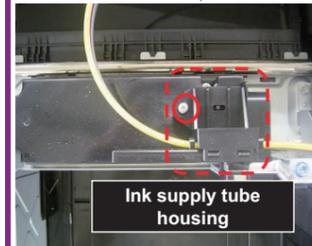
Remove the screws (x2), tab.



3. Remove the clamps and connector.

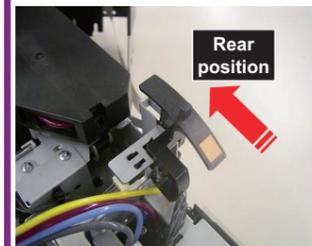


4. Remove the screw (x1).



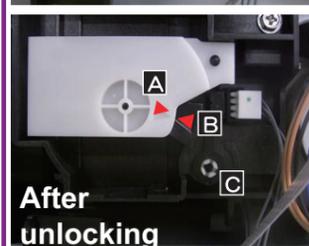
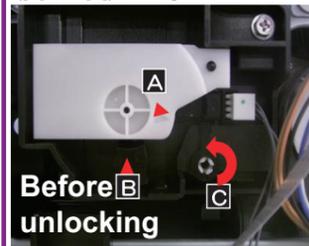
B Push carriage position lever

Set the carriage position lever to the rear position.

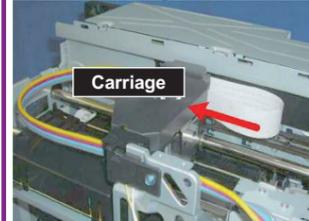


B-3 Release carriage

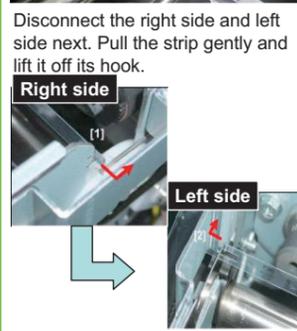
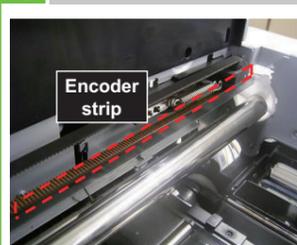
1. Insert the tip of a screwdriver into the hole [C] and turn it counter-clockwise until the two triangle marks [A] and [B] are aligned.



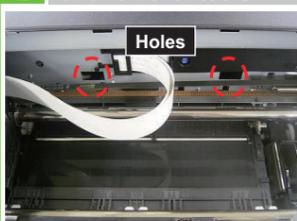
2. Push the carriage to the center.



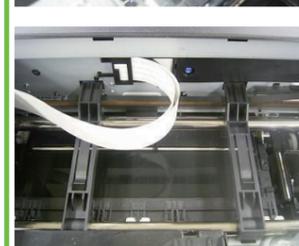
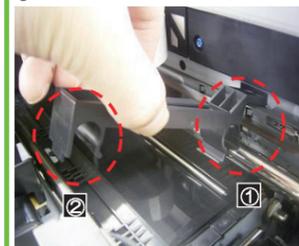
C-1 Remove encoder strip



Attach the fastening and removal tools



Insert the end of the tool into the hole. Fasten the rear end of the tool to the rear guide rod. Fasten the front end of the tool to the front guide rod.



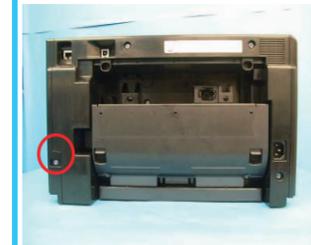
C-3 Unlock guide rod

1. Remove right stay plate (screw x3).

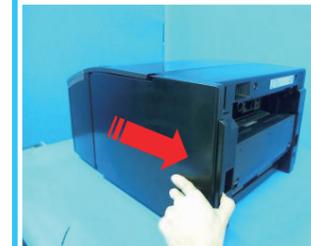


A-4 Remove right cover

1. Remove the screw (x1).

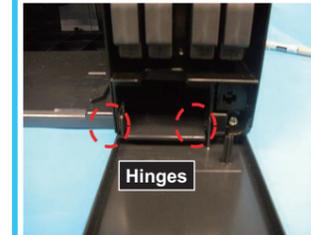


2. Slide the right cover backward.



A-5 Remove ink cartridge cover

Unlock the hinges.



A-6 Remove operation panel

1. Remove the screws (x2).

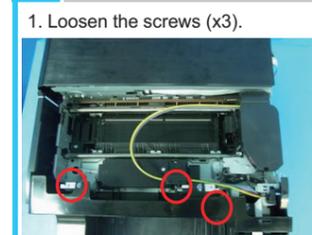


2. Remove the FFC.



A-7 Remove front cover

1. Loosen the screws (x3).



2. Remove the screw (x1).



3. Release the tab on the front left corner of the machine.

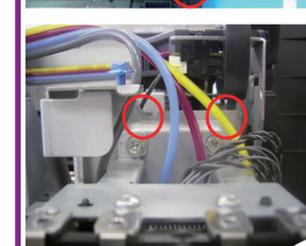
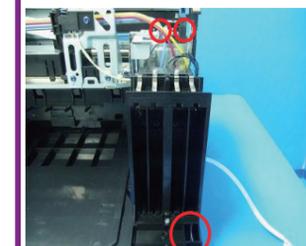


4. Pull out the cover.

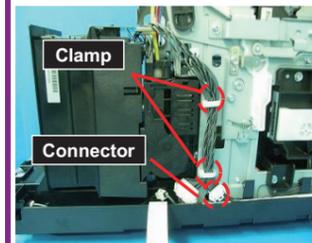


B-1 Release ink supply unit

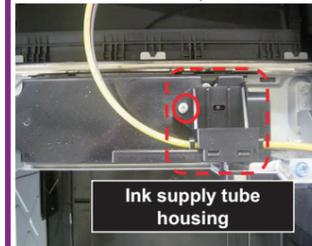
1. Remove the ink cartridges.
2. Remove the screws (x3).



3. Remove the clamps and connector.

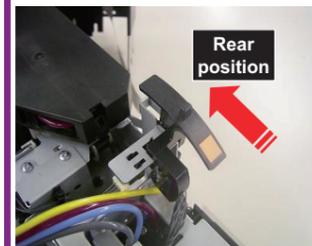


4. Remove the screw (x1).



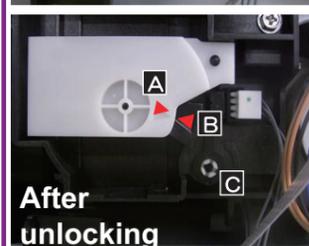
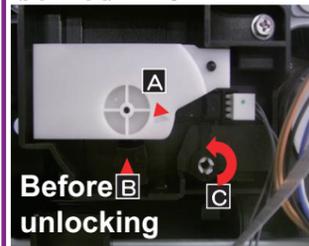
B Push carriage position lever

Set the carriage position lever to the rear position.

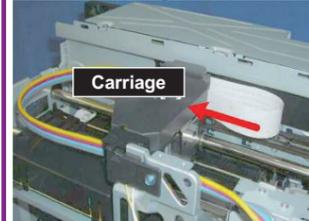


B-3 Release carriage

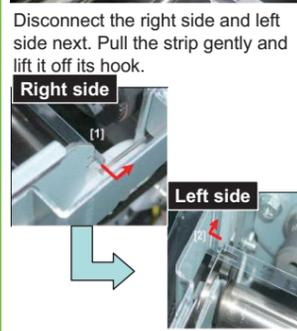
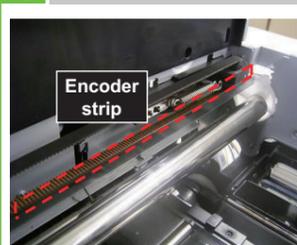
1. Insert the tip of a screwdriver into the hole [C] and turn it counter-clockwise until the two triangle marks [A] and [B] are aligned.



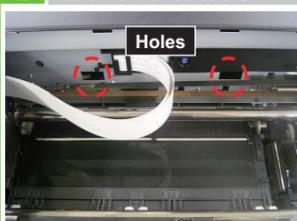
2. Push the carriage to the center.



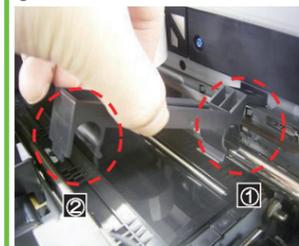
C-1 Remove encoder strip



Attach the fastening and removal tools



Insert the end of the tool into the hole. Fasten the rear end of the tool to the rear guide rod. Fasten the front end of the tool to the front guide rod.

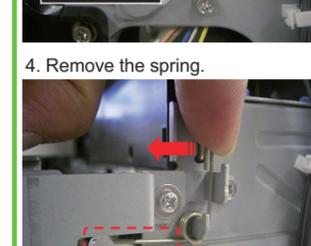
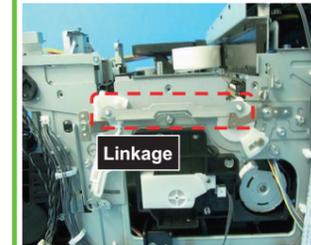


C-3 Unlock guide rod

1. Remove right stay plate (screw x3).

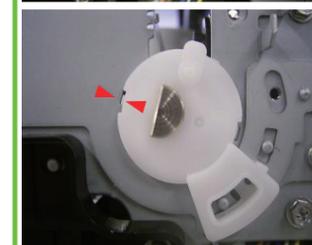
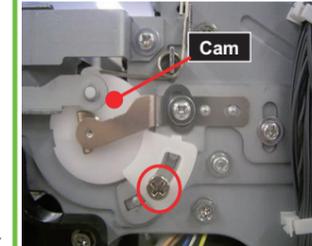


2. Remove the linkage.



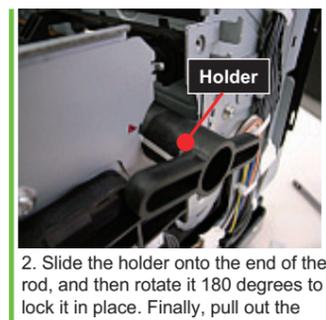
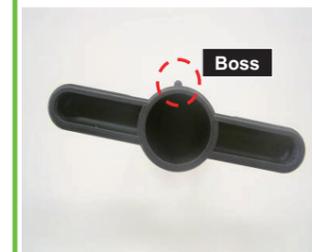
CAUTION: Make sure to remove the spring by disconnecting the top end (shown by the arrow in the photo).

5. Remove the screw, rotate the cam until the triangle marks are aligned, and then remove the cam.

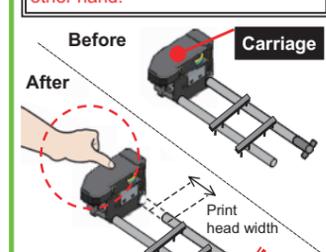


C-4 Pull out guide rod

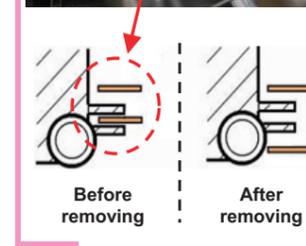
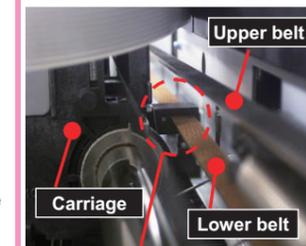
1. Attach the holder to the end of the guide rod.



CAUTION: Make sure to secure the carriage unit in place with one hand while you remove the guide rod with the other hand.



D-1 Remove the belt from carriage



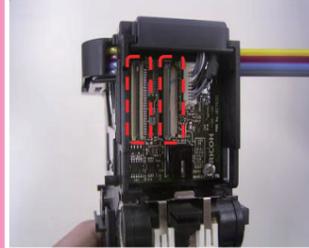
D-2 Remove carriage FFC

CAUTION:
- Make sure not to touch the grease on the guide rod.
- Do not touch ink level feeler.
- Keep the carriage unit in the orientation shown in the photo (Do not rotate it or tip it sideways).

1. Remove the cover from the rear side of the carriage unit.



2. Remove the 2 FFCs.

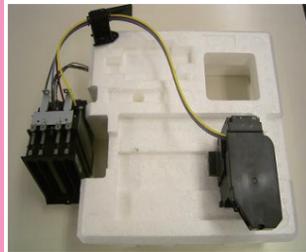


3. Secure the FFC to the jigs.



D-3 Remove carriage

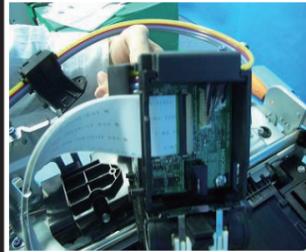
Fit the carriage unit into the Styrofoam holders as shown in the photo.



Removal of the carriage unit completed.

E Attach new carriage

1. Attach the 2 FFCs.



CAUTION:
 • Be careful not to fold them.
 • One FFC is longer than the other. Make sure to attach the longer FFC in the right position (and shorter FFC in the left position).

Do not fold the FFCs



2. Attach the carriage's rear cover.

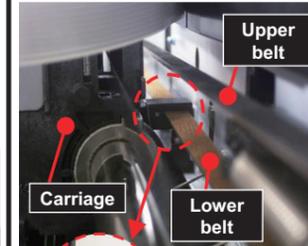
3. Remove the humidity retention cap.



4. Re-insert the guide rod into the carriage. (See Step C-4)

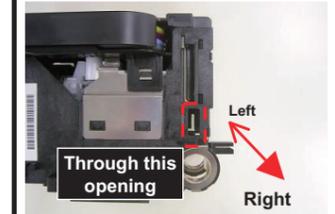
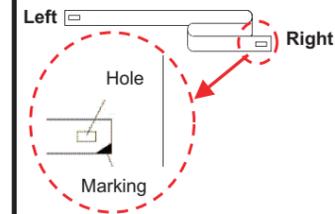
5. Remove the jigs. (See Step C-2)

6. Attach the belt.



7. Pass the bundled encoder strip (not the original encoder strip) through the opening between the carriage sensors.

5



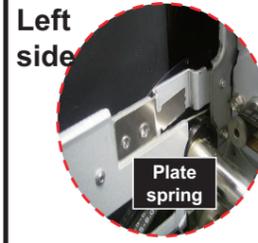
8. Hook the right end of the encoder sheet first, then hook the left end.



9. Clean the strip with alcohol by wiping the surface from right to left.



CAUTION:
 If you wipe the surface from the left side, this may damage the plate spring.

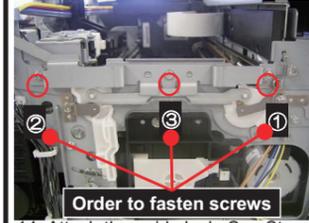


10. Attach the cam (screw x1). See Step C-3-5.

11. Attach the spring. See Step C-3-4.

12. Attach the linkage. See Step C-3-2.

13. Attach the stay plate.



14. Attach the guide lock. See Step C-3-3.

15. Attach the ink supply unit See Step B-1.

16. Attach the front cover. See Step A-7.

17. Attach the operation panel. See Step A-6.

18. Attach the right cover. See Step A-4.

19. Attach the upper/inner cover. See Step A-3.

20. Attach the ink cartridge cover. See Step A-5.

21. Attach the output tray and paper tray. See Step A-1 and 2.

22. Reset the envelope lever to standard position. See Step B-2.

Carriage attachment completed.

F Adjustment after replacement

1. Open the ink cartridge cover before you turn on the machine main power. Otherwise the machine will perform auto maintenance and consume a large amount of ink.

2. Enter SP mode.

3. Execute SP5101. (Some values related to print head will be reset)

4. Install the starter ink cartridges.

5. Install the ink collector unit.

6. Close the ink cartridge cover.

IMPORTANT: Ink initialization will start. During the initialization, do not open any covers, or turn off the power. The entire process will take about seven minutes.

7. Print out the nozzle check pattern.

[Menu]⇒[Maintenance]⇒[Nozzle check]

IMPORTANT: Check to see if the nozzle is clogged, and if it is, perform print head cleaning.

8. Adjust the print head position.

[Menu]⇒[Maintenance]⇒[Head Position]*1

9. Adjust the registration.

[Menu]⇒[Maintenance]⇒[Registration]*2

10. Adjust the paper feed.

[Menu]⇒[Maintenance]⇒[Adj. Paper Feed]

11. Print out the color demo page.

[Menu]⇒[List/Test Print]⇒[Color Demo Page]

12. Print out the engine summary (SP 5200).

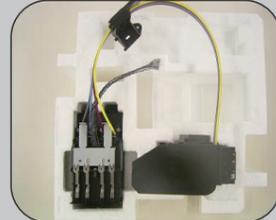
13. Replace the ink collector unit and ink cartridges with the ones the customer was originally using.

*1: 「Standard」-「High Speed」-「High Quality」 *2: Only 「Tray 1-Plain Paper」

6

Appendix: Accessories

1. Carriage unit



2. Procedure



3. Waste ink tank



4. Ink cartridges



5. Guide rod fastening tool (x2; right side of photo), guide rod removal tool (x1; left side of photo)



6. Main scan encoder sheet



Notice:

Please be informed of the following as this kit is commonly used with Japanese models.

- Both English and Japanese procedure are bundled.
- Ink cartridges are labeled in Japanese but can be used in all models.