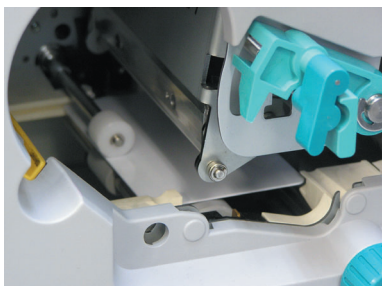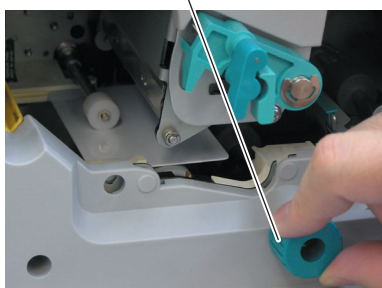## B. When card is at the left (near printing unit)

1. Adjust the direction of the tilted card with your hand such that it is parallel with the card guide.

2. Turn the knob of the card transfer in the anti-clockwise direction to transfer card to the stacker.
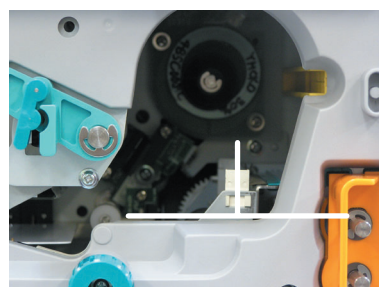
Card Transfer Knob

3. Install the ink cassette and close the printer door. Refer to pages 13 and 14 of this manual.

Printer will start to initialize and return to the Ready mode.

C. When card can barely be seen from the encoding unit

1. Open the jog cover behind the card cassette, turn the jog dial in the anti-clockwise (upward) direction to move card into the encoder. Refer to Feed Jam (page 29 of this manual) on how to open the jog cover.

2. If the inverter is not vertical, turn it to a vertical position with your hand.

3. Turn the jog dial clockwise (down) to move card from the encoding unit to the inverter, followed by removing it with your hand.

4. Install the ink cassette and close the printer door. Refer to pages 13 and 14 of this manual.

Printer will start to initialize and return to the Ready mode.

Jam Inside Laminator

Refer to the instruction manual of the laminating unit on procedures to remove the jammed card.

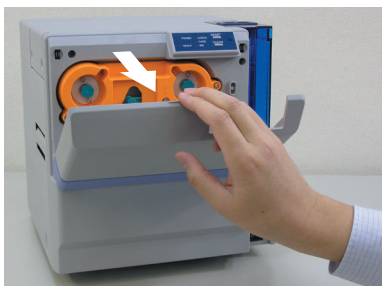## Procedures for Changing Thermal Head

CAUTION Static electricity in our bodies discharged to the thermal head may cause it to break down. Before exchange, touch metal parts of the printer such as the screw to release the static electricity.
Do not touch the heating unit of the thermal head with your hand. If you have done so, follow procedures on the page 25 of this manual to perform cleaning upon changing the thermal head.
Carry out the work carefully and avoid knocking the heating unit of the thermal head against any hard object.
Ensure that printer is switched off before changing.
Do not loosen or remove any screws for which instructions are not given in the procedures.

1. Place your fingers on top of the door and open by pulling it towards you.
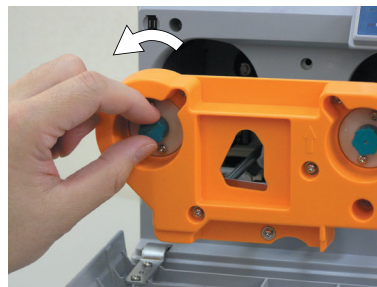
Open slowly while supporting it with your hands.

2. Remove ink ribbon cassette

Hold the lock lever with your fingers and lift it to unlock.
When ink ribbon is installed, pull out the cassette by about 3cm and turn the knob on the cassette in the direction indicated by the arrow to tighten the ribbon sag.
Remove the cassette while supporting it with both hands.
Stand cassette on a flat and firm surface.

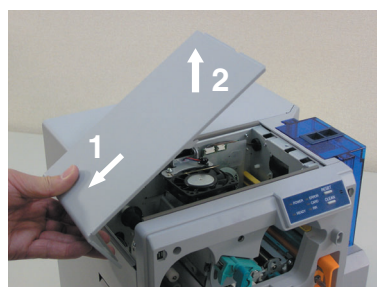Unlock

Remove sag

Eject cassette

CAUTION When the ink ribbon is installed, be careful not to drop the ink ribbon into the interior of the printer when removing the cassette.

3. Open the door for head exchange

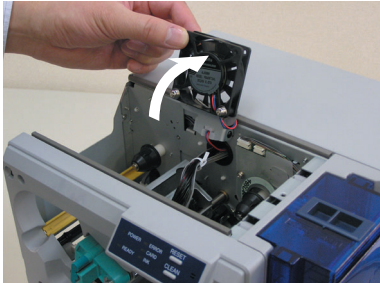Remove the 2 fastening screws on the left of the printer's head exchange door using a – (flathead) driver.

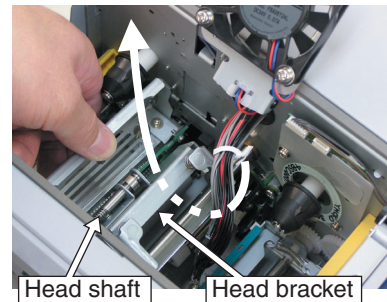Slide the head exchange door to the left and remove by lifting it up.

4. Move the head cooling fan.
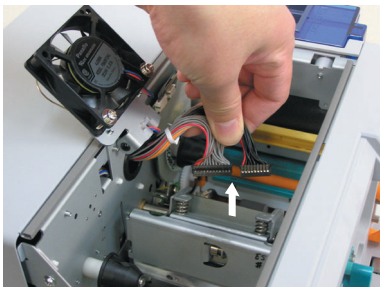
Lift towards you and lean it backwards.
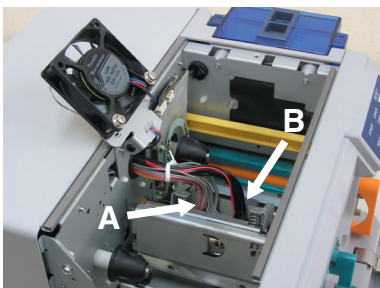
View from the top

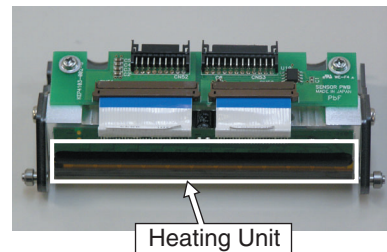Head shaft | Head bracket

5. Remove head cables A and B.

Hold the part of cable that is directly above the connector and remove by lifting them up carefully one by one.

B

A

6. Remove the thermal head.

To remove the thermal head from the shaft, hold and move it to the left while pulling forward.
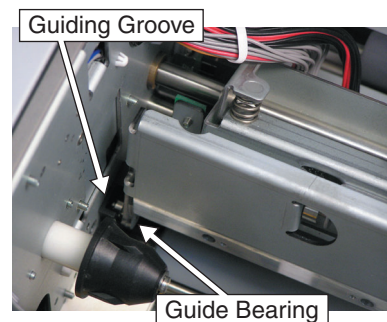Lift it up while leading it through from underneath the head bracket.

2

1

7. Install a new thermal head

Be careful not to hit the heating element of the thermal head against any hard object.
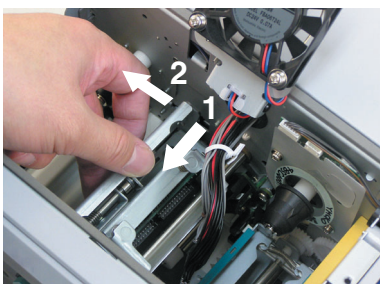Reverse steps in 6. to install the thermal head while paying attention not to catch the head cable.

Heating Unit

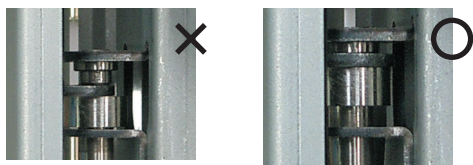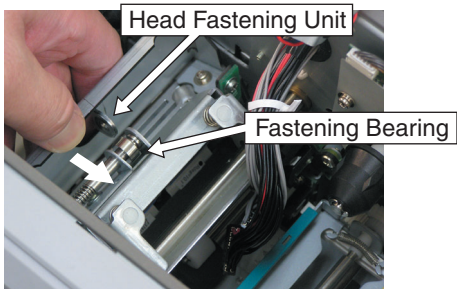Check if the guide bearing of the thermal slot is inside the guiding slot.
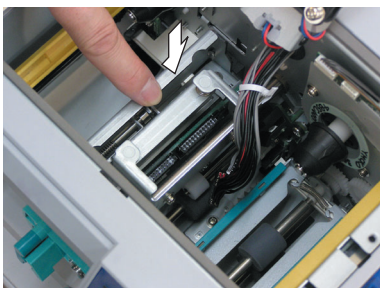
Guiding Groove

Guide Bearing

Push the fastening bearing at the head fastening unit forward and insert to the right to lock it securely.

8. Insert head cables A and B.

Press the head down slowly so that the cables can be easily inserted.
A click sound will be heard, indicating that the cassette is locked.

Hold the part that is directly above the cable connector and insert them slowly and securely one by one.

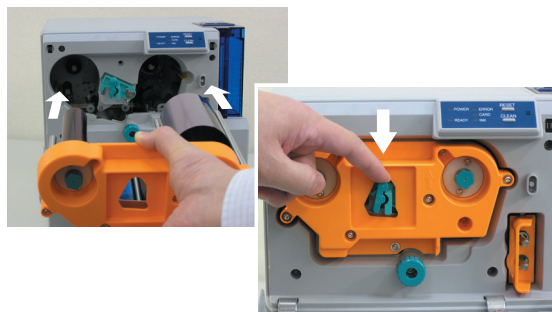## 9. Return the head cooling fan to its original position.

10. Mount the head exchange door

Mount the head exchange door by reversing the steps in 3. and fasten the 2 screws securely.

11. Insert cassette against the guide rail.

Unlock the cassette again. Refer to step 1.

While making sure that the ink ribbon does not sag, push the cassette all the way in along the guide rail and lower the lock lever to lock the cassette.

CAUTION Ribbon sags will result in jammed ink ribbon and uneven color caused by wrinkles when the cassette is attached.

CAUTION Inserting the cassette by force when the guide shaft is not properly placed in the guide rail may damage the device.

12. Close printer door.

Shut the printer door tightly by pressing on the top right section of the door indicated by the word "PUSH".
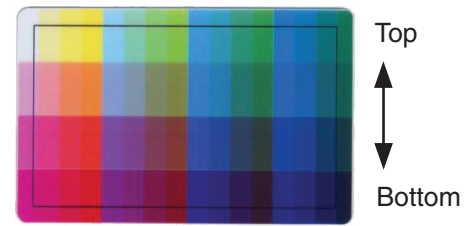

CAUTION **To prevent damage, the door is made in such a way that it cannot be closed properly when the ink ribbon cassette is not locked or when the cassette is not inserted. Closing the door by force in such a case may damage the device.**

Checking After Changing Thermal Head

After changing the thermal head, confirm print position by carrying out test print using color ink ribbons.
To perform a test print, press the Reset and Clean buttons on the control panel simultaneously for more than 1 second when the Ready LED is lit.
A test pattern will be printed. Ensure that margins around the card are almost equal (approximately 0.2 ~ 0.3 mm) on the top, bottom, left and right.

Direction of test pattern: Yellow on the top left

Adjust the printer setting function on the status monitor if the margin is not equal. Procedures for using the status monitor can be found in the instruction manual (electronic manual).

The density of print may change slightly before and after changing the thermal head. Slight adjustment of the density can be carried out using the printer setting function on the status monitor.

Procedure for changing thermal head is now complete.

Consumable/Optional Items

Consult your dealer for additional purchase of consumables, optional items and the Card Hopper for use with the various types of cards.

Consumable Items
- Cleaning Card (for cleaning roller)
  Part No.   CX-120-CC1 (10 pieces)
- Cleaning Kit
  Part No.   CX210-CKIT1
       Content
       Alcohol (50 ml)
       MG Cleaning Card (5 pieces)
       Cotton Swab (10 pieces)
       Kimwipe (1 box)
- Cleaning Unit
  Part No.   CX-120-CL-001
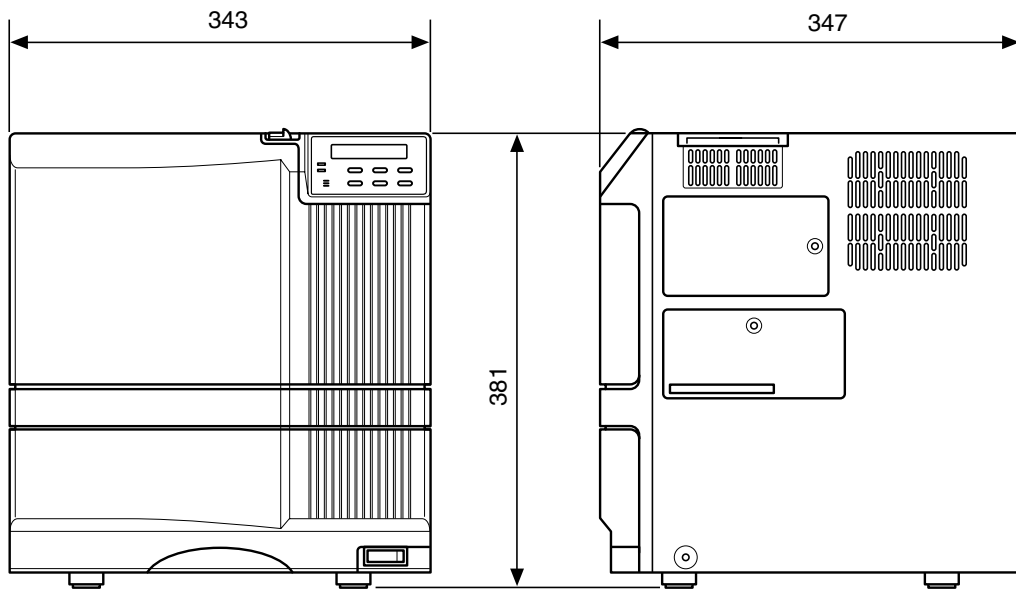- Thermal Head
  Part No.   CX-120-HD-001

Optional Items
- Ink Ribbon
  YMCKO   750 screen pages, Part No. CY-15C-75
  YMCKOK 600 screen pages, Part No. CY-16K-60
- Card Cassette
  Part No.   CX-120-HP-001
- Laminator Unit
  Model Name   CL-50
- Hand Gloves
  Model No. U105-M for size M
  Model No. U105-L for size L

External appearance and dimensions

343	347
381	
Front view	**Side view**

unit/mm

MEMO

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