

## Correcting Card Curl

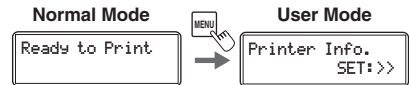
Depending on the cards you use, even given optimum secondary transfer conditions (speed and temperature), cards may curl. After secondary transfer, by correcting card curl (decurl), you can reduce the amount of curl.

**Note**

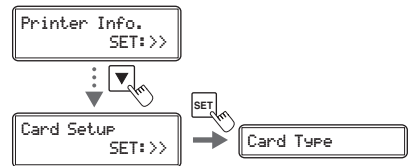
- You can also change the settings by using the printer driver (→See "Opening the Printer Driver Settings Screen" on page 89).
- The factory default status is not to carry out decurl.
- Secondary transfer conditions (speed and temperature) that have not been optimized, and application of excess heat are major causes of cards curling after printing. Prior to correction using decurl, adjust the secondary transfer conditions.  
→See "Setting the Types of Card to Use" on page 44 for adjustment of secondary transfer conditions.

### 1 Switch from Normal Mode to User Mode.

→See "Switching to User Mode" on page 24 for details on how to switch to User Mode.

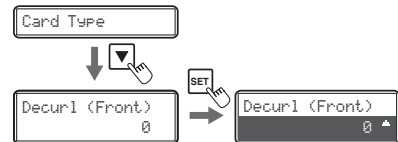


### 2 Press the ▼ Key until [Card Setup] is displayed, then press the SET Key.



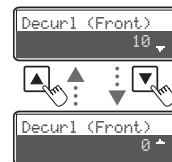
### 3 Press the ▼ Key until [Decurl (Front)] is displayed, then press the SET Key.

- Cards that have had their warp corrected are output.



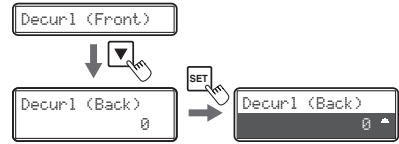
### 4 Change the settings by using the ▲/▼ Keys, then press the SET Key.

- Figures show the duration (seconds) for which decurl after transfer of the front surface is carried out.
- You can set the decurl duration from 0-15 seconds. If the settings value is set to "0", then there will be no decurl after transfer of the front surface.
- Use the ▲/▼ Keys to change the value, and press the SET Key to fix the changes.
- If the MENU Key is pressed prior to pressing the SET Key to fix the changes, then the changes will be canceled.



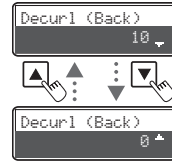
**5 Press the ▼ Key until [Decurl (Back)] is displayed, then press the SET Key.**

- Cards that have had their warp corrected are output.



**6 Change the settings by using the ▲/▼ Keys, then press the SET Key.**

- Figures show the duration (seconds) for which decurl after transfer of the rear surface is carried out.
- You can set the decurl duration from 0-15 seconds. If the settings value is set to "0", then there will be no decurl after transfer of the rear surface.
- Use the ▲/▼ Keys to change the value, and press the SET Key to fix the changes.
- If the MENU Key is pressed prior to pressing the SET Key to fix the changes, then the changes will be canceled.



**Note** • The factory default setting for [Decurl (Front)] and [Decurl (Back)] is [0].

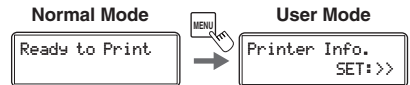
**Switching the Card Ejection Slot**

You can switch the slot from which printed cards are output to Card Ejection Slot (Left) and (Right).  
 The factory default is set so that correctly printed cards are output from the Card Ejection Slot (Left), and cards with errors are output from Card Ejection Slot (Right).

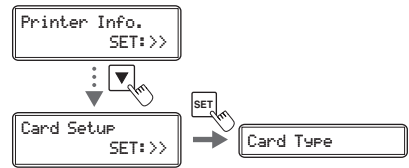
**Note** • You can also change the settings by using the printer driver (→See "Opening the Printer Driver Settings Screen" on page 89).

**1 Switch from Normal Mode to User Mode.**

→See "Switching to User Mode" on page 24 for details on how to switch to User Mode.

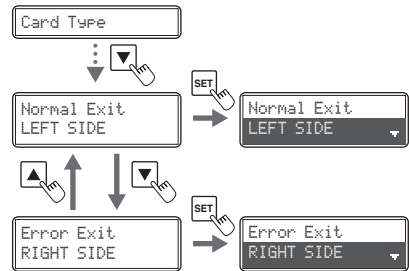


**2** Press the ▼ Key until [Card Setup] is displayed, then press the SET Key.



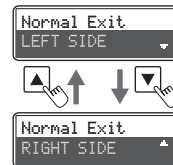
**3** After using the ▲/▼ Keys to switch between [Normal Exit]/[Error Exit], press the SET Key.

- Select where to output correctly printed cards on the [Normal Exit] menu, and where to output abnormal cards on the [Error Exit] menu.



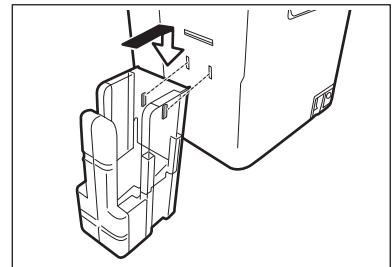
**4** Change the settings by using the ▲/▼ Keys, then press the SET Key.

- Use the ▲/▼ Keys to switch between [LEFT SIDE]/[RIGHT SIDE].
- Set it to [LEFT SIDE] to output cards from Card Ejection Slot (Left), or [RIGHT SIDE] to do from Card Ejection Slot (Right).



**Note**

- The Card Stacker can only be attached to the Card Ejection Slot (Left). Note that if the destination for normally printed cards is set to the Card Ejection Slot (Right), then output cards cannot be stacked.
- See the "Easy Setup Guide" for instructions on attaching the Card Stacker.



## Set the Orientation of Magnetic Cards/IC Cards to Load

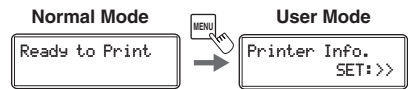
Before loading magnetic card/IC cards, you need to set the Orientation of Magnetic Cards/IC Cards to Load.

→See "Loading Magnetic/IC Cards" on page 13 for how to set Magnetic Cards/IC Cards.

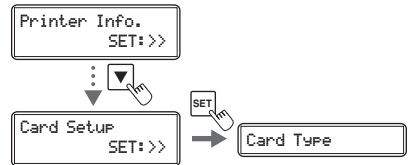
- Note**
- You can also change the settings by using the printer driver (→See "Opening the Printer Driver Settings Screen" on page 89).
  - This setting is only available when the optional magnetic encoder unit is attached.

### 1 Switch from Normal Mode to User Mode.

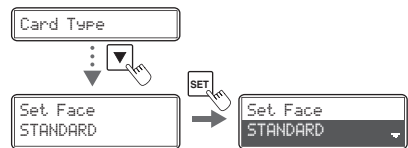
→See "Switching to User Mode" on page 24 for details on how to switch to User Mode.



### 2 Press the ▼ Key until [Card Setup] is displayed, then press the SET Key.

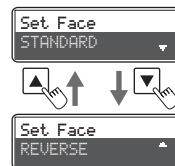


### 3 Press the ▼ Key until [Set Face] is displayed, then press the SET Key.



### 4 Change the settings by using the ▲/▼ Keys, then press the SET Key.

- By combining printing sides of the card (front surface/ rear surface) and magnetic strips/IC cards, settings for loading can be changed as below.



Settings Value	Card front surface (left surface)	Card rear surface (right surface)
STANDARD	<p>Contact IC terminal</p>	<p>ISO magnetic strip</p>
REVERSE	<p>ISO magnetic strip</p>	<p>Contact IC terminal</p>

**Note** • The factory default setting is [STANDARD].

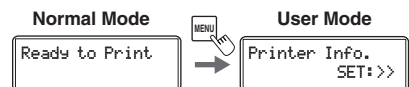
## Set the Orientation of Cards to Eject

Set the orientation of correctly printed cards.

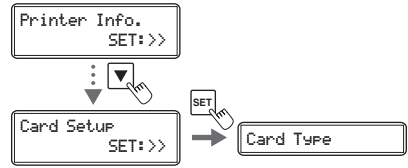
**Note** • You can also change the settings by using the printer driver (→See "Opening the Printer Driver Settings Screen" on page 89).

### 1 Switch from Normal Mode to User Mode.

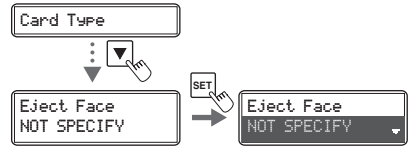
→See "Switching to User Mode" on page 24 for details on how to switch to User Mode.



**2** Press the ▼ Key until [Card Setup] is displayed, then press the SET Key.

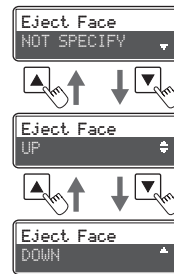


**3** Press the ▼ Key until [Eject Face] is displayed, then press the SET Key.



**4** Change the settings by using the ▲/▼ Keys, then press the SET Key.

- Settings values that can be changed are as below.



Settings Value	Details
NOT SPECIFY	The rear surface of cards to output cannot be set. Depending on the details of printing, the orientation that will print the most quickly is automatically selected. The front face of the card faces down for single-sided printing, and faces up for double-sided printing.
UP	The card is output with its front surface upwards.
DOWN	The card is output with its front surface downwards.

**Note**

- The factory default setting is [NOT SPECIFY].

## Changing Network Connection Settings

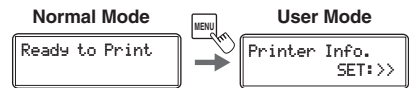
You can configure Internet communications settings such as the individual printer ID and TCP/IP-related settings.

**Note**

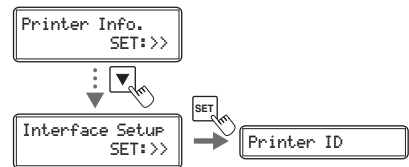
- You can also change the settings by using the printer driver (→See "2. Print over a network" in "PrinterDriverManual(E).pdf" on the Printer Driver CD for network settings).

### 1 Switch from Normal Mode to User Mode.

→See "Switching to User Mode" on page 24 for details on how to switch to User Mode.

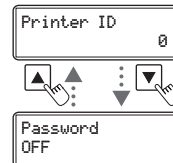


### 2 Press the ▼ Key until [Interface Setup] is displayed, then press the SET Key.



### 3 Select the setting to change by using the ▲/▼ Keys, then press the SET Key.

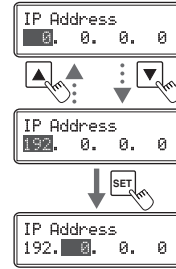
- Details of items that can be changed in each settings menu are as below.



Settings Menu	Details
Printer ID	Set the individual printer ID (0-15).
DHCP	Set the DHCP function ON/OFF.
IP Address	Set the IP address. (Only when the DHCP function is OFF)
Subnet Mask	Set the subnet mask. (Only when the DHCP function is OFF)
Default Gateway	Displays the default gateway. (Only when the DHCP function is OFF)
MAC Address	Displays the MAC address.
IPsec	Set the IPsec function ON/OFF.
Timeout(s)	Set the session timeout (seconds).
Password	Set the password ON/OFF for setting TCP/IP using the printer driver. Additionally, if ON, then set the password.

## 4 Change the settings by using the ▲/▼ Keys, then press the SET Key.

- When setting numerical values, change each digit using the ▲/▼ Keys. Fix changes using the SET Key then progresses to the next digit. Pressing the SET Key after the final digit fixes the changes. If the MENU Key is pressed prior this, then the changes will be canceled.



### Note

- The factory default settings are [DHCP], [IPsec] and [Password] set to [OFF]. [Subnet Mask] and [Default Gateway] are set to [0.0.0.0]. [IP Address] is set to [169.254.0.0]. [Printer ID] is set to [8]. [Timeout(s)] is set to [30].
- [Interface Setup] settings can also be set when installing the network driver.
- Turn the power off and on to enable the settings.

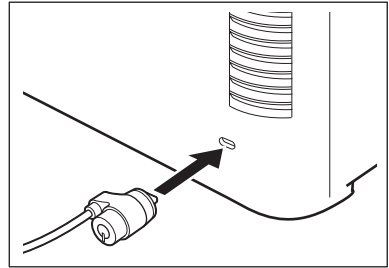


## Preventing Theft and Unauthorized Usage

### ■ Preventing Theft of the Printer (Security Cable Slot)

You can prevent theft of the printer by locking it with a wire cable.

Use a wire cable that fits the Security Cable Slot (0.12" × 0.28" (3.00 mm × 7.00 mm)) to lock up the printer.



**Note**

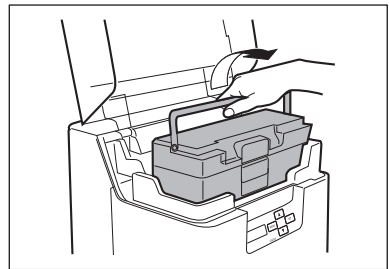
- Use a commercial security cable.

### ■ How to Store Cards (Removing the Card Case)

You can prevent unauthorized use of the cards by removing the Card Case and locking it in a safe or other secure location.

#### 1 Open the top cover, and remove the Card Case.

- Hold the Card Case handle, and remove.



# Cleaning

The rollers need to be cleaned to maintain good print quality. This section explains which rollers need to be cleaned and how to clean them.

## Before Cleaning

Note the following cautions when cleaning the rollers.

- CAUTION**
  - Remove any cards that are inside the printer.
  - After cleaning the rollers, do not use the printer until the rollers get dry (for at least five minutes).
  - Do not touch the rollers with your bare hands.

## Cleaning with a Cleaning Card

Use the Cleaning Card (provided) to clean the Card Transport Roller if cards do not feed smoothly.

We recommend cleaning the rollers after printing about 1,000 cards.

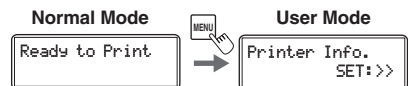
→See "Cleaning Card" on page 84 for details about which Cleaning Cards you can use.

- 
- Note**
    - The [Card Count] and [Total Count] functions make it easy to keep track of how many cards are printed.
      - See "Counting the Number of Cards that Are Printed" on page 27 for details of the [Card Count] function.
      - See "Displaying the Total Number of Sides that Are Printed" on page 28 for details of the [Total Count] function.

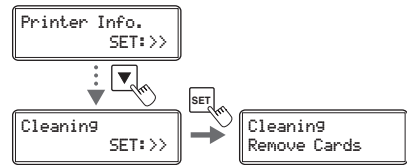
- CAUTION**
  - Cleaning Cards can only be used once and cannot be reused. Use a new Cleaning Card with the adhesive side down every time you clean the rollers.

### 1 Switch from Normal Mode to User Mode.

→See "Switching to User Mode" on page 24 for details on how to switch to User Mode.



**2** Press the ▼ Key until [Cleaning] is displayed, then press the SET Key.



**3** When [Cool Down ---] is displayed, wait until the figure drops to 70 or lower.

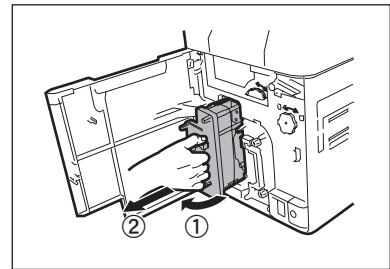
- This figure indicates the temperature of the heat roller.
- If the heat roller is hot, then it may take 20 minutes for the temperature to drop to 70 or below.



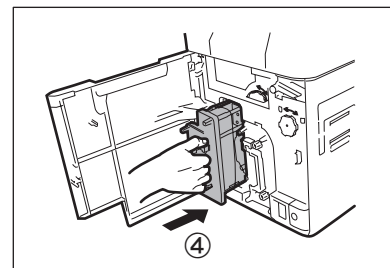
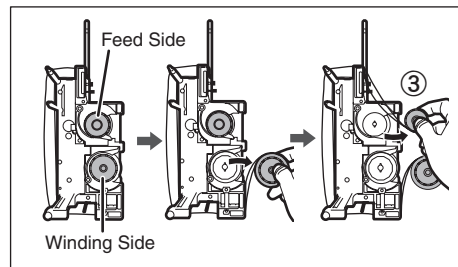
**4** When [Remove Film] is displayed, open the Front Cover, and remove the Transfer Film from the Transfer Film Cassette.

→See "Transfer Film Replacement" on page 19 for details on how to remove the Transfer Film.

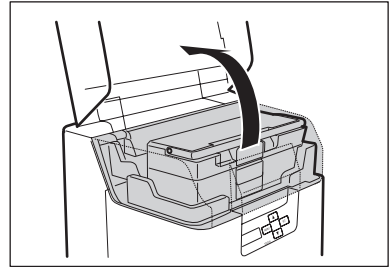
- When the Transfer Film has been removed, re-insert the Transfer Film Cassette and close the Front Cover.



**⚠ CAUTION** • If cleaning is started with the Transfer Film Cassette removed, there is a possibility that the card will become jammed inside the printer during cleaning.

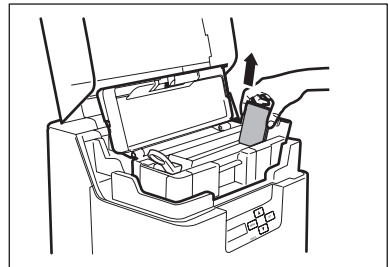


**5** When [Remove Cards] is displayed, open the Top Cover.



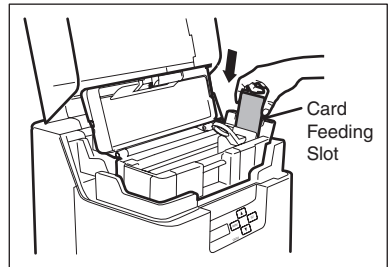
**6** Open the Card Case, and remove the cards from the cassette.

- Pull the lock, and open the Card Case lid.
- Pull the card retainer, and after removing the cards, return the card retainer to its original position.



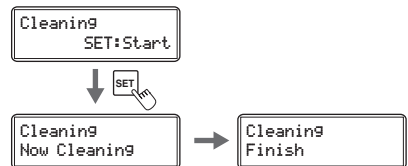
**7** When [Set Cleaning Crd] is displayed, load the Cleaning Card in the Card Feeding Slot.

- When the Cleaning Card is loaded, close the Card Case cover and the Top Cover.
- Align the adhesive side of the Cleaning Card to the right.



**8** When [SET:Start] is displayed, press the SET Key.

- The Cleaning Card is pulled into the printer and cleaning starts.
- The Cleaning Card comes out of the Card Ejection Slot (Left) when cleaning is completed.
- When [Finish] is displayed, cleaning is completed.



## Cleaning the Cleaning Roller

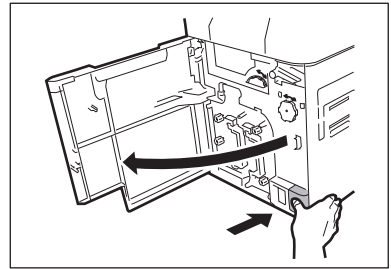
Clean the Cleaning Roller if cards are printed with missing colors or if there are foreign objects on them.

- 
- ⚠ CAUTION**
- Be sure to turn off the printer before cleaning the rollers.
  - Read the cautions in "Before Cleaning" on page 56.

**1 Turn off the power.**

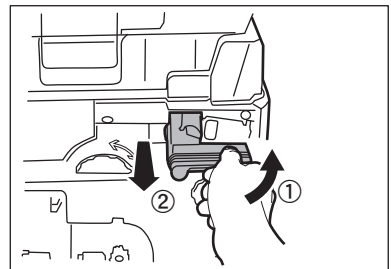
**2 Open the Front Cover.**

- Press the open over switch, and pull the Front Cover forward.



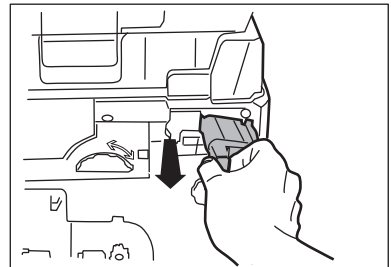
**3 Remove the Cleaning Tape Cassette.**

- Hold the Cleaning Tape Cassette handle with your fingers, raise it slightly, and pull it out.



**4 Remove the Cleaning Roller.**

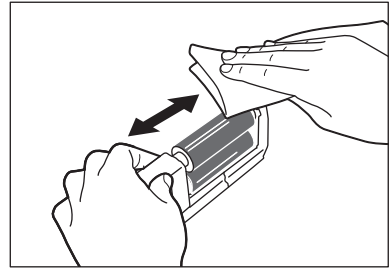
- Hold the Cleaning Roller handle on the right of the Cleaning Tape Cassette, and pull it out.



## Full Color Card Printer

### 5 Wipe the roller clean.

- Use a soft cloth fully moistened with **water** and wrung out to wipe the roller clean.



### 6 Load the Cleaning Roller and Cleaning Tape Cassette in order, and close the Front Cover.

## Cleaning the Feeding Roller

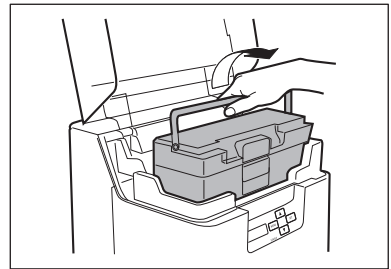
Clean the Feeding Roller under the Card Case if cards do not feed smoothly into the printer.

- CAUTION**
- Be sure to turn off the printer before cleaning the rollers.
  - Read the cautions in "Before Cleaning" on page 56.

**1 Turn off the power.**

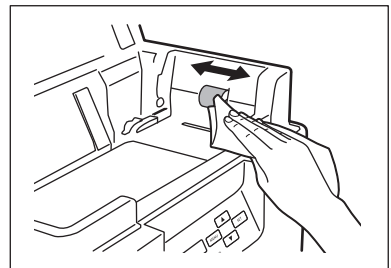
**2 Open the top cover, and remove the Card Case.**

- Hold the Card Case handle, and remove.



**3 Wipe the roller clean.**

- Use a soft cloth fully moistened with **water** and wrung out to wipe the roller clean.
- Turn the roller as you wipe it to clean it in the direction of an arrow.



**4 Load the Card Case.**

- Return the Card Case to its original position.

**5 Close the Top Cover.**

## Cleaning the Transport Roller

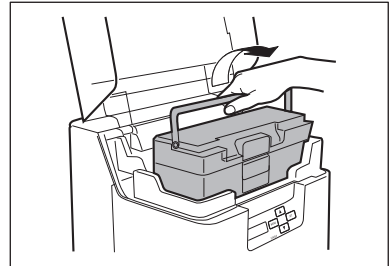
If the printing location on printed cards is out of adjustment, or there is white space at the edge of printed areas, then clean the secondary transfer section Transport Roller at the bottom of the Top Access Cover.

- CAUTION**
- Be sure to turn off the printer before cleaning the rollers.
  - Read the cautions in "Before Cleaning" on page 56.

**1 Turn off the power.**

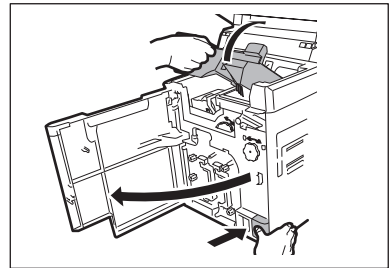
**2 Open the top cover, and remove the Card Case.**

- Hold the Card Case handle, and remove.



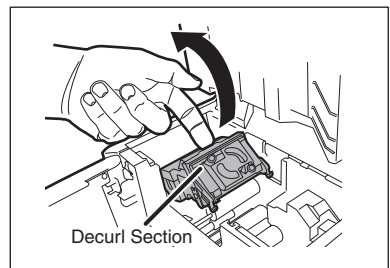
**3 Open the Front Cover and Top Access Cover.**

- Press the open over switch, and pull the Front Cover forward.
- Hold the handle of the Top Access Cover and lift to open.
- If you do not open the Front Cover, then you cannot open the Top Access Cover.



**4 Lift the decurl section.**

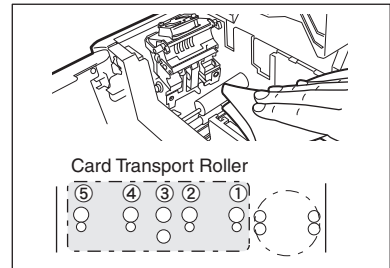
- First release the lock on the decurl section as at right before lifting.





## 5 Wipe the roller clean.

- Use a soft cloth fully moistened with **water** and wrung out to wipe the roller clean.
- As you turn the card feeding knob, fully clean the roller.
- Clean the Card Transport Roller (5 locations).



- 
- ⚠ CAUTION**
- It is difficult to reach the bottom part of the decurl section (output side) rollers, and cleaning can be troublesome. Be careful to not hurt your fingers.
  - The bottom part of location ③ in the figure above is the heat roller, and is therefore hot. Please exercise care when cleaning.

## 6 Close the Top Access Cover and Front Cover.

- Before closing the cover, return the Card Case and decurl section to their original positions.

## Cleaning the Reverse Roller

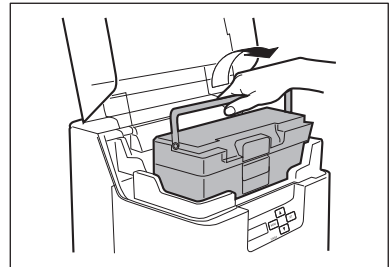
If card delivery from the reverse section to the secondary transfer section Transport Roller is not possible, then clean the Reverse Roller.

- CAUTION**
- Be sure to turn off the printer before cleaning the rollers.
  - Read the cautions in "Before Cleaning" on page 56.

**1 Turn off the power.**

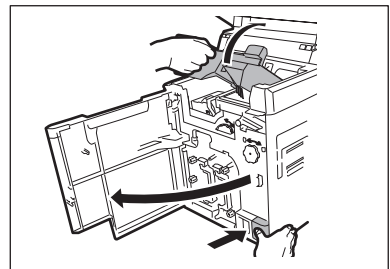
**2 Open the top cover, and remove the Card Case.**

- Hold the Card Case handle, and remove.



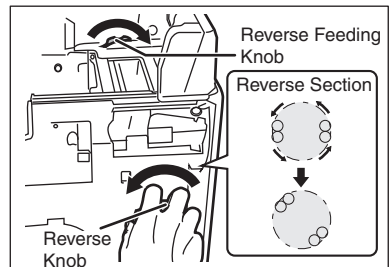
**3 Open the Front Cover and Top Access Cover.**

- Press the open over switch, and pull the Front Cover forward.
- Hold the handle of the Top Access Cover and lift to open.
- If you do not open the Front Cover, then you cannot open the Top Access Cover.



**4 Rotate the reverse knob, and locate the reverse section roller as in the diagram.**

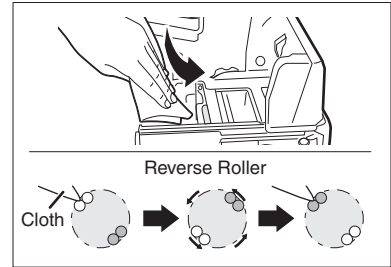
- When checking inside the reverse section, remove the Cleaning Roller and Cleaning Tape Cassette.  
 →See "Cleaning Tape Replacement" on page 22 and "Cleaning the Cleaning Roller" on page 59 for instructions on removing the Cleaning Roller and Cleaning Tape Cassette.



## 5

### Wipe the roller clean.

- Use a soft cloth fully moistened with **water** and wrung out to wipe the roller clean.
- Rotate the reverse feeding knob, and fully clean the roller.
- Turn the reverse knob to rotate the reverse section one turn, and clean the other side of the Reverse Roller.



## 6

### Close the Top Access Cover and Front Cover.

- Before closing the cover, return the Card Case, decurl section, Cleaning Roller, and Cleaning Tape Cassette to their original positions.

## Primary Transfer Section Transport Roller Cleaning

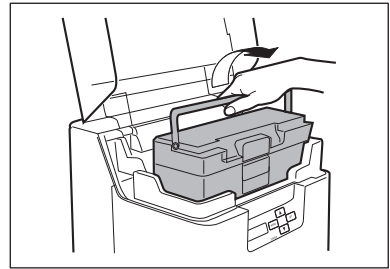
If a film-related error occurs such as [Film Wind up], or there is color bleed or image distortion, then clean the primary transfer section Transport Roller.

- 
- ⚠ CAUTION**
- Be sure to turn off the printer before cleaning the rollers.
  - Read the cautions in "Before Cleaning" on page 56.

**1 Turn off the power.**

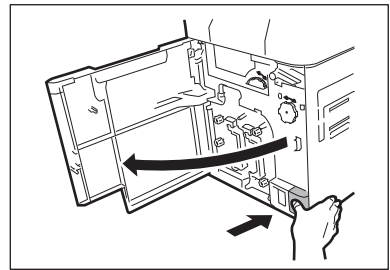
**2 Open the top cover, and remove the Card Case.**

- Hold the Card Case handle, and remove.



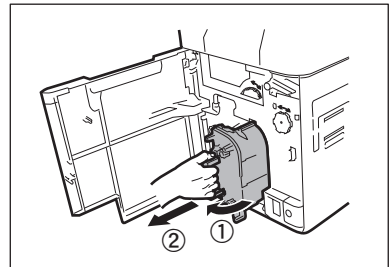
**3 Open the Front Cover.**

- Press the open over switch, and pull the Front Cover forward.



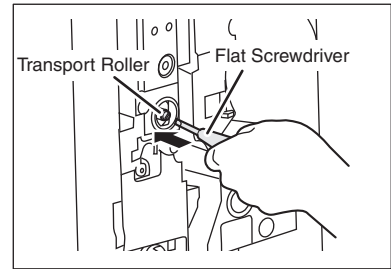
**4 Remove the Ink Ribbon Cassette and the Transfer Film.**

- See "Changing the Ink Ribbon and Transfer Film" on page 16 for details on how to remove the Ink Ribbon Cassette and Transfer Film.



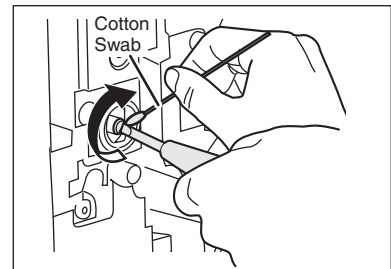
**5 Insert a flat screwdriver or coin into the groove on the end of the Transport Roller.**

- Ensure you have a flat screwdriver or coin that can fit into the groove on the end of the Transport Roller.



**6 Wipe the roller clean.**

- Turn the screwdriver (or coin), and wipe the Transport Roller using a cotton swab with a long handle fully moistened with water.



**7 Return the Ink Ribbon Cassette and the Transfer Film Cassette to their original positions.**

→See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about attaching the Ink Ribbon and Transfer Film.

**8 Close the Front Cover.**

## Filter Cleaning

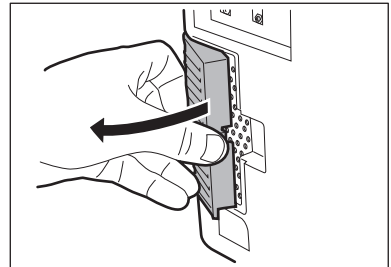
If the filter becomes clogged, then dirt may enter the printer. It is recommended that the filter be cleaned monthly.

- 
- ⚠ CAUTION**
- Be sure to turn off the printer before cleaning the rollers.
  - Read the cautions in "Before Cleaning" on page 56.

**1 Turn off the power.**

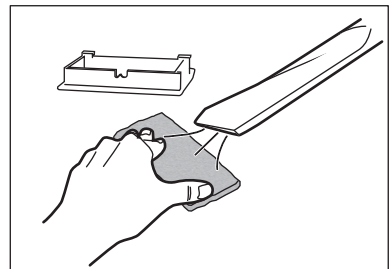
**2 Remove the filter cover on the rear of the printer.**

- Hold the handle with your fingers, and pull.



**3 Use a vacuum cleaner or similar to remove dirt that is adhered to the filter.**

- Remove the filter from the filter cover.
- Hold the filter down with your fingers in order that it is not sucked into the vacuum cleaner.



**4 Attach the filter cover to the printer.**

- Attach the filter to the filter cover.

# Troubleshooting

This section explains what to do when an error message appears, a card is jammed, or there is a problem with the printed side of a card.

## When an Error Message Appears

The LED Indicator is lit orange or blinks, and a description of the error appears on the LCD Panel when an error occurs.

### ■ Clearing an Error

Follow the instructions below to clear an error.

After clearing an error, pressing the SET Key will initialize the printer, [Ready to Print] will appear, and the printer will return to normal status.

#### Note

- When two errors occur, only the first error message is displayed. Pressing the SET Key after clearing the first error displays the next error. Continue to clear errors until [Ready to Print] appears.

### ■ How to Clear an Error

Resolve error messages that appear on the LCD Panel according to the instructions below.

Error message	Cause and solution
Cover is Open	<b>The Front Cover is open.</b> ⇒Make sure the Front Cover is closed.
Card Empty	<b>There are no more cards.</b> ⇒Load cards into the printer. →See "Loading Cards" on page 10 for instructions on loading cards.
Low Temperature	<b>The temperature in which the printer is located is too low.</b> ⇒Ensure the environment temperature is 10°C or higher, and press the SET Key.

Error message	Cause and solution
Ribbon Empty	<p><b>The Ink Ribbon has been used up.</b>                      ⇒Replace the Ink Ribbon.                      →See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about changing the Ink Ribbon.</p> <hr/> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>● If an error occurs during the use of a YMCKK/YMCKH/ YMCKI/YMCFK ribbon, it may be because the card, which is about to have its rear surface printed on, is fed into the printer.                      Printing will resume if you replace the ink ribbon. However, take note that the card inside the printer will be ejected (without printing) if the power is turned off before replacing the ink ribbon.</li> </ul>
Ribbon Type	<p><b>The Ink Ribbon could not be detected correctly.</b>                      ⇒Reload the Ink Ribbon.                      →See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about changing the Ink Ribbon.                      ⇒<b>The Ink Ribbon set in the printer and printer settings may be different.</b>                      →See "Ink Ribbon/Transfer Film" on page 83 about the supported types of Ink Ribbon.                      →See "Setting the Type of Ink Ribbon or Transfer Film to Use" on page 41 for details on how to set the Ink Ribbon type.                      ⇒<b>Ink Ribbons not supported by this printer cannot be used.</b>                      →See "Ink Ribbon/Transfer Film" on page 83 for details about supported Ink Ribbon.                      →Resend print data from the computer.</p>
Ribbon Wind up	<p><b>The Ink Ribbon could not be wound correctly.</b>                      ⇒Reload the Ink Ribbon.                      →See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about changing the Ink Ribbon.</p> <p><b>The Ink Ribbon may be cut.</b>                      ⇒Repair the cut Ink Ribbon.                      →See "If the Ink Ribbon or Transfer Film are Cut" on page 78 for instructions on how to repair a cut Ink Ribbon.                      ⇒<b>The Ink Ribbon set in the printer and printer settings may be different.</b>                      →See "Ink Ribbon/Transfer Film" on page 83 about the supported types of Ink Ribbon.                      →See "Setting the Type of Ink Ribbon or Transfer Film to Use" on page 41 for details on how to set the Ink Ribbon type.</p>



Error message	Cause and solution
<p>Film Empty</p>	<p><b>The Transfer Film has been used up.</b>            ⇒Replace the Transfer Film.            →See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about changing the Transfer Film.</p> <hr/> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>● If an error occurs during the use of a YMCFK ribbon, it may be because the card, which is about to have its rear surface printed on, has been fed into the printer. Printing will resume once you replace the transfer film. However, take note that the card inside the printer will be ejected (without printing) if the power is turned off before replacing the transfer film.</li> </ul>
<p>Film Type</p>	<p><b>The Transfer Film could not be detected correctly.</b>            ⇒Reload the Transfer Film.            →See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about changing the Transfer Film.            ⇒The Transfer Film set in the printer and printer settings may be different.            →See "Ink Ribbon/Transfer Film" on page 83 about the supported types of Transfer Film.            →See "Setting the Type of Ink Ribbon or Transfer Film to Use" on page 41 for details on how to set the Transfer Film type.            ⇒Transfer Film not supported by this printer cannot be used.            →See "Ink Ribbon/Transfer Film" on page 83 for types of supported Transfer Film.</p>
<p>Film Wind up</p>	<p><b>The Transfer Film could not be wound up.</b>            ⇒Reload the Transfer Film.            →See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about changing the Transfer Film.</p> <p><b>The Transfer Film may be cut.</b>            ⇒Repair the cut Transfer Film.            →See "If the Ink Ribbon or Transfer Film are Cut" on page 78 for instructions on how to repair a cut Transfer Film.            ⇒The Transfer Film set in the printer and printer settings may be different.            →See "Ink Ribbon/Transfer Film" on page 83 about the supported types of Transfer Film.            →See "Setting the Type of Ink Ribbon or Transfer Film to Use" on page 41 for details on how to set the Transfer Film type.</p>

Error message	Cause and solution
Rbn & Film Empty	<p><b>Both the Ink Ribbon and Transfer Film have been used up.</b>                      ⇒Replace both the Ink Ribbon and the Transfer Film.                      →See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about changing the Ink Ribbon and Transfer Film.</p> <hr style="border-top: 1px dashed black;"/> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>● If an error occurs during the use of a YMCKK/YMCKH/YMCKI/YMCFK ribbon, it may be because the card, which is about to have its rear surface printed on, is fed into the printer.                      Printing will resume if you replace the Ink Ribbon and Transfer Film. However, take note that the card inside the printer will be ejected (without printing) if the power is turned off before replacing the Ink Ribbon and Transfer Film.</li> </ul>
Card Jam Feeder	<p><b>Cards cannot be fed into printer.</b>                      ⇒Press the SET Key.</p> <p><b>Frequent occurrences of this error may mean the following:</b></p> <p><b>Is the Card Case loaded correctly?</b>                      ⇒Correctly load the Card Case.                      ⇒Confirm that the Card Case card retainer is loaded properly.                      →See "Loading Cards" on page 10 for instructions on loading cards.</p> <p><b>Is the Feeding Roller dirty?</b>                      ⇒Clean the Feeding Roller located below the Card Case.                      →See "Cleaning the Feeding Roller" on page 61 for Feeding Roller cleaning instructions.</p>
Card Jam F. Turn	<p><b>There was a card jam.</b>                      ⇒Press the SET Key.</p> <p><b>An error occurred, and cards cannot be output.</b>                      ⇒Remove the cards by rotating the Ejection Dial, and press the SET Key.                      →See "When a Card is Jammed..." on page 75 for instructions on how to remove cards.</p> <p><b>Frequent card jams could mean the following:</b></p> <p><b>Is the Transport Roller dirty?</b>                      ⇒Clean the Transport Roller.                      ⇒If the Transport Roller is excessively dirty, continue cleaning using a new Cleaning Card.                      →See "Cleaning with a Cleaning Card" on page 56 for instructions on cleaning the Transport Roller.</p>
Card Jam Print	
Card Jam M9	

Error message	Cause and solution
Card Feed Remove	<p><b>There was a card jam.</b>            ⇒Remove the cards by rotating the Ejection Dial, and press the SET Key.            →See "When a Card is Jammed..." on page 75 for instructions on how to remove cards.</p>
Card Turn Remove	<p><b>Frequent card jams could mean the following:</b></p>
Card Fr Remove	<p><b>Is the Transport Roller dirty?</b>            ⇒Clean the Transport Roller.            ⇒If the Transport Roller is excessively dirty, continue cleaning using a new Cleaning Card.</p>
Card M9 Remove	<p>→See "Cleaning with a Cleaning Card" on page 56 for instructions on cleaning the Transport Roller.</p>
Service Call	<p><b>An error that requires repair may occur.</b>  <b>The cause of the error differs depending on the error code.</b>            ⇒Turn off and on the power.            Repairs are necessary if the error reoccurs.</p>
Download Error	<p><b>Program version update was interrupted.</b>            ⇒Turn off and on the power, then start version update again.</p>
M9 Write Error	<p><b>Reading/writing of the magnetic data failed.</b>            ⇒Press the SET Key.  <b>Failure when reading/writing the magnetic data may mean the following:</b></p>
M9 Read Error	<p><b>Is the card set in the correct direction?</b>            ⇒Check the loading direction of the cards.            →See "Loading Cards" on page 10 for instructions on loading cards.</p>
	<p><b>Are there any scratches or dirt on the card's magnetic strip?</b>            ⇒Use undamaged cards.</p>
	<p><b>Do the magnetic characteristics of the card match the specifications of the magnetic encoder and the settings of the magnetic encoder?</b>            ⇒Check the specifications of the magnetic encoder.            →See "Checking the Program Version and Serial Number" on page 30 for instructions on how to check the specifications of the magnetic encoder.</p>
IC1 Access Error	<p><b>During operation of the IC option 1, data reception by the computer was interrupted.</b>            ⇒Press the SET Key.            →Follow the directions of the application printing cards.</p>

Error message	Cause and solution
IC2 Access Error	<p><b>During operation of the IC option 2, data reception by the computer was interrupted.</b>                      ⇒Press the SET Key.                      →Follow the directions of the application printing cards.</p>
External Box	<p><b>During operation of the external box, data reception by the computer was interrupted.</b>                      ⇒Press the SET Key.                      →Follow the directions of the application printing cards.</p>

After clearing an error, pressing the SET Key clears the errors, initializes the printer, and [Ready to Print] will appear.

If the following messages appear after pressing the SET key, resolve the problem according to the instructions below.

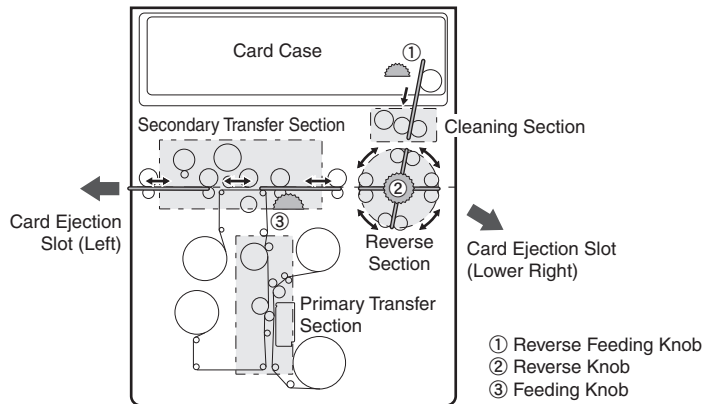
Message	Solution
Push SET key	Press the SET Key.
Card Empty	Load the card in the Card Case.
Cover is Open	Correctly close the cover.
Low Temperature	Ensure the environment temperature is 10°C or higher, and press the SET Key.
Check Ribn/Film	<p>Confirm that the Ink Ribbon and Transfer Film are correctly loaded. If these are used up, then replace the Ink Ribbon or Transfer Film.                      →See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about changing the Ink Ribbon or Transfer Film.</p>
Remove Cards	<p>Remove the cards by rotating the Ejection Dial.                      →See "When a Card is Jammed..." on page 75 for instructions on how to remove cards.</p>

## When a Card is Jammed...

Use the following procedure to remove cards jammed during printing or when the jammed card is unable to be removed despite the SET Key being pressed. Ejection Dials are at 3 locations within the printer.

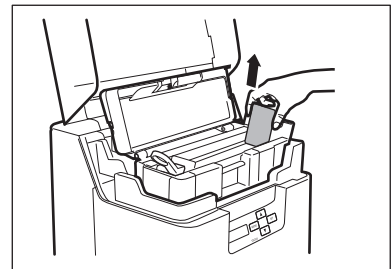


- Cards being printed are fed through this printer using the following path. If cards are not correctly output, then there may be a jam in any of the following locations.



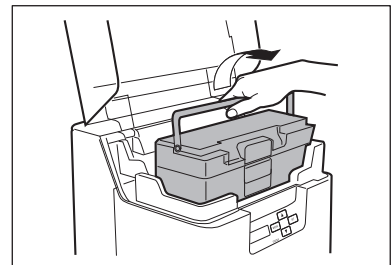
### 1 (If cards are jammed within the Card Case) Remove cards from the Card Case.

- If the furthest-right card is partially fed into the machine, slowly pull it out by hand.
- If the jam is cleared, then go to Step 8.



### 2 Remove the Card Case.

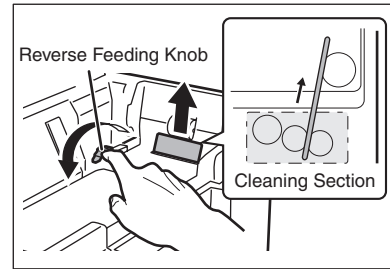
- Close the Card Case cover, hold the handle, and remove.



Full Color Card Printer

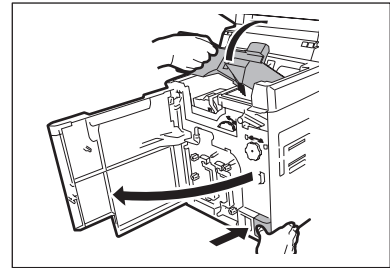
**3 (If cards can be seen in the feed slot)  
Rotate the reverse feeding knob.**

- Remove cards jammed in the cleaning section from the feed slot.
- Cards jammed in the reverse section can also be output.
- If the jam is cleared, then go to Step 8.



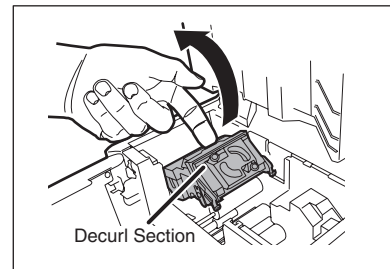
**4 Open the Front Cover and Top Access Cover.**

- Press the open over switch, and pull the Front Cover forward.
- Hold the handle of the Top Access Cover and lift to open.
- If you do not open the Front Cover, then you cannot open the Top Access Cover.



**5 Confirm the location of jammed cards.**

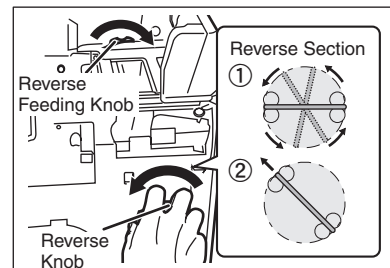
- To confirm the interior of the decurl section, first release the lock on the decurl section as at right before lifting.
- When checking inside the reverse section, remove the Cleaning Roller and Cleaning Tape Cassette. →See "Cleaning Tape Replacement" on page 22 and "Cleaning the Cleaning Roller" on page 59 for instructions on removing the Cleaning Roller and Cleaning Tape Cassette.



**6 (If the card is in the reverse section)**

**① Rotate the reverse knob so that the cards are parallel, and rotate the feeding knob left and right.**

- If the feeding knob is rotated to the left, then jammed cards are output from the Card Ejection Slot (Left), and if this is rotated to the right, then these are output from Card Ejection Slot (Right).
- Do not turn the card feeding knob, reverse feeding knob or reverse knob without checking the condition of the card inside the printer. There is a danger of parts breakage and card loss. If the card is lost, please contact your reseller.



② **Rotate the reverse knob so that the edge of the cards is at the upper left, and rotate the reverse feeding knob so that this outputs as in the figure at right.**

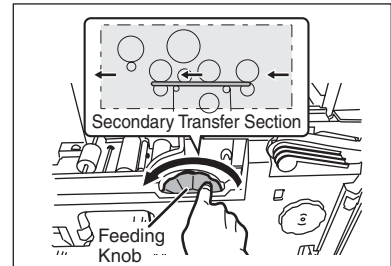
- Jammed cards will be output from the top of the printer, so remove these by hand.
- If the jam is cleared, then go to Step 8.

**7** (If the card is in other than the reverse section)

**Rotate the feeding knob.**

- Jammed cards are ejected from Card Ejection Slot (left).
- If the jam is cleared, then go to Step 8.
- Do not turn the card feeding knob, reverse feeding knob or reverse knob without checking the condition of the card inside the printer.

There is a danger of parts breakage and card loss.  
If the card is lost, please contact your reseller.



**8** **Close the Top Access Cover and Front Cover.**

- Before closing the cover, return the Card Case, decurl section, Cleaning Roller, and Cleaning Tape Cassette to their original positions.

**9** **Press the SET Key.**

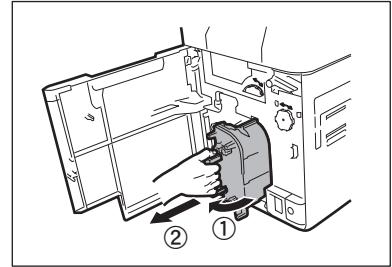
- The error message on the LCD Panel disappears, and the printer returns to Normal Mode.

## If the Ink Ribbon or Transfer Film are Cut

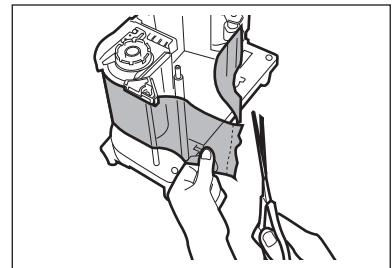
If the Ink Ribbon or Transfer Film are cut for any reason, then repair these using the method below.

### 1 Remove the Ink Ribbon Cassette or Transfer Film Cassette.

→See "Changing the Ink Ribbon and Transfer Film" on page 16 for details on how to remove the Ink Ribbon Cassette and Transfer Film Cassette.

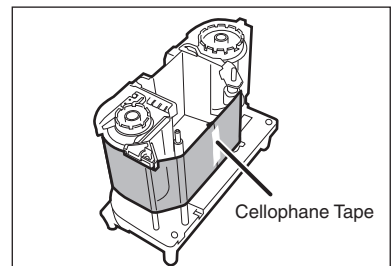


### 2 Carefully trim the cut section with scissors.



### 3 Use cellophane tape to join the ribbon or film.

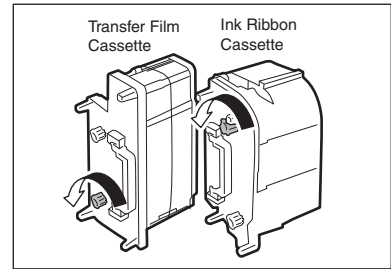
- Place the cut area in the middle.
- Join the cut surfaces so that they are aligned properly.
- Do not discard the used ink or film on the winding side.





## 4 Rotate the winding side knob.

- Rotate the knob until the joined section of the Ink Ribbon or Transfer Film is fully inside the winding side spool spindle.



## 5 Return the Ink Ribbon Cassette or Transfer Film Cassette to their original positions.

→See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about attaching the Ink Ribbon and Transfer Film.

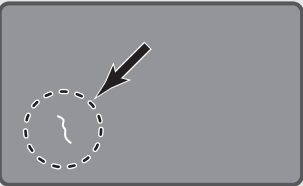



## 6 Close the Front Cover.


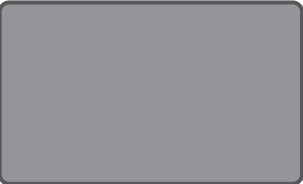
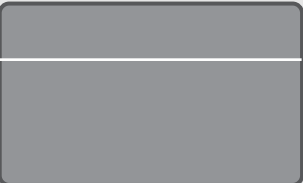

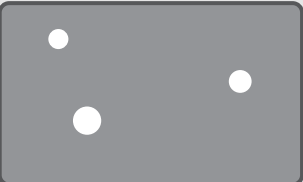
## 7 Press the SET Key.

- The error message on the LCD Panel disappears, and the printer returns to Normal Mode.

## When Cards are Not Printed Correctly...

If missing or incorrect colors are printed on a card or cards are incorrectly printed, resolve the problem according to the following instructions.

Problem	Cause and solution
<p>There are missing or incorrect colors in certain sections. Dirt is present.</p> 	<p><b>Is there dirt on the card surface?</b>                      ⇒Do not use dirty cards.                      ⇒Avoid using the printer in locations with excessive dust or dirt.</p> <p>⇒Clean the Cleaning Roller.                      →See "Cleaning the Cleaning Roller" on page 59 for cleaning instructions.</p> <p>⇒Use a Cleaning Card to clean the Cleaning Roller.                      →See "Cleaning with a Cleaning Card" on page 56 for instructions on how to clean with a cleaning card.</p>
<p>There is an unprinted area on the left of the card.</p> 	<p><b>Is there dirt on the Transport Roller?</b>                      ⇒Use a Cleaning Card to clean the Cleaning Roller.                      →See "Cleaning with a Cleaning Card" on page 56 for instructions on how to clean with a cleaning card.</p> <p>⇒Clean the Transport Roller.                      →See "Cleaning the Transport Roller" on page 62 for instructions on cleaning the Transport Roller.</p>
<p>The card is bent.</p> 	<p><b>Secondary transfer conditions (speed and temperature) are not optimum.</b>                      ⇒Set secondary transfer conditions in accordance with cards used.                      →See "Setting the Types of Card to Use" on page 44 for instructions on setting secondary transfer conditions.</p>
<p>Print flakes off.</p> 	<p><b>Secondary transfer conditions (speed and temperature) are not optimum.</b>                      ⇒Set secondary transfer conditions in accordance with cards used.                      →See "Setting the Types of Card to Use" on page 44 for instructions on setting secondary transfer conditions.</p>

Problem	Cause and solution
<p>White cards (unprinted cards) are output.</p> 	<p><b>Only color image data was received with the Black Ink Ribbon loaded.</b>            ⇒Use the Overcoating Color Ink Ribbon when printing in color.            →See "Changing the Ink Ribbon and Transfer Film" on page 16 for details about changing the Ink Ribbon.</p> <p><b>Secondary transfer conditions (speed and temperature) are not optimum.</b>            ⇒Set secondary transfer conditions in accordance with cards used.            →See "Setting the Types of Card to Use" on page 44 for instructions on setting secondary transfer conditions.</p>
<p>General Print Problems (Incorrect Colors, etc.)</p> 	<p><b>The Ink Ribbon type setting is different.</b>            ⇒Set the printer according to the type of Ink Ribbon used.            →See "Setting the Type of Ink Ribbon or Transfer Film to Use" on page 41 for details on how to set the Ink Ribbon type.</p>
<p>Fine lines are not printed.</p> 	<p><b>Contact your reseller.</b></p>
<p>There is a surface irregularity.</p> 	<p><b>Contact your reseller.</b></p>
<p>There are partial white areas.</p> 	<p><b>Contact your reseller.</b></p>

Problem	Cause and solution
<p>Some or all of the printed area are cloudy.</p>	<p><b>Is the Transfer Film running between the two pins on top of the Transfer Film Cassette?</b>                      ⇒Make sure that the Transfer Film is correctly loaded.                      →See "Transfer Film Replacement" on page 19 on how to install the Transfer Film.</p> <p><b>Is the pin on top of the Transfer Film Cassette attached correctly?</b>                      ⇒Make sure that the pin on top of the Transfer Film Cassette is attached correctly.                      →See "Transfer Film Replacement" on page 19 on how to attach the pin on top of the Transfer Film Cassette.</p> <p><b>Secondary transfer conditions (speed and temperature) are not optimum.</b>                      ⇒Set secondary transfer conditions in accordance with cards used.                      →See "Setting the Types of Card to Use" on page 44 for instructions on setting secondary transfer conditions.</p>

## Other Troubles

Problem	Solution
<p>The power cannot be turned on.</p>	<p>Make sure the power cable is connected.</p>
<p>Data cannot be sent to the printer.</p>	<p>Make sure the USB cable is connected.</p>
	<p>Make sure the network is connected.</p>
<p>The printer cannot connect to the network.</p>	<p>Confirm User Mode network settings.                      ⇒See "Changing Network Connection Settings" on page 53 for how to confirm network settings.</p>

## When These Solutions Don't Work...

Contact your reseller if errors appear which are not included in this manual or when an error cannot be cleared.

- Note**
- When contacting your reseller, provide them with the content of the message and the error code (XX-XX) that appears on the right side of the LCD Panel.



# Appendix

## Consumables

### ■ Ink Ribbon/Transfer Film

The 5 types of Ink Ribbon that can be used in this printer are as follows.

Name	Type	Product no	Number of Printable Sides	Remarks
Retransfer Color Ink Ribbon	R-YMCK	PR5002-R4C	500 screens/spool	–
Retransfer Color Ink Ribbon with Reverse Side Black Ink Printing function	R-YMCKK	PR5002-R5K	400 screens/spool	–
Retransfer Color Ink Ribbon with UV Panel	R-YMCFK	PR5002-R5F	400 screens/spool	–
Retransfer Color Ink Ribbon with Heat Seal Panel	R-YMCKH	PR5002-R5H	400 screens/spool	–
Retransfer Color Ink Ribbon with Peel-off Panel	R-YMCKI	PR5002-R5I	400 screens/spool	–

Transfer Film (transparent type) that can be used with this printer is one type only.

Name	Type	Product no	Number of Printable Sides	Remarks
Retransfer Film	R-InTM1	PR5002-R11	500 screens/spool	With Cleaning Tape

If using other Ink Ribbon/Transfer Film, please contact your reseller.

- ⚠ CAUTION**
- Directly touching the Ink Ribbon/Transfer Film may cause uneven print density.
  - When changing the Ink Ribbon/Transfer Film, do not subject these to excessive impacts.
  - Use of non-genuine parts may lead to reduced print quality, or printer malfunctions.
  - We cannot guarantee the quality and reliability of non-genuine products.
  - Repair of faults caused by the use of non-genuine products shall be charged, even if the printer is within the warranty period.

- Note**
- The number of printable sides may decrease under the following conditions.
    - Changing the Ink Ribbon/Transfer Film during use
    - When an error occurs during printing
    - Performing operations not listed in this manual
  - Use Ink Ribbon/Transfer Film as soon as possible after purchase.
  - When storing Ink Ribbon/Transfer Film, avoid locations that are exposed to direct sunlight, high temperatures, or with excessive dust or dirt.

**Full Color Card Printer****■ Cards**

Use only cards that conform to the CR-80 standard.

Size: 3.4" × 2.1" (86 mm × 54 mm) Thickness: 0.03"-0.04" (0.76 mm-1.00 mm)

Material: PVC, PET, PET-G, Composite PVC, PC

- 
- ⚠ CAUTION**
- Do not use cards that do not conform to the CR-80 standard. Such cards may not be printed properly.
  - Do not use the following cards:
    - Cards previously printed with this or any other card printer
    - Wet cards
    - Cards mixed with glass, metallic or other foreign objects
    - Embossed cards
    - Cards coated with oil or other foreign matter
    - Cracked, chipped, bent or otherwise damaged cards
    - Transparent cards
    - Abnormally shaped cards

**■ Cleaning Card**

Please contact your reseller for cleaning cards.

**■ Cleaning Tape**

Please replace Cleaning Tape at the same time as Transfer Film. Cleaning Tape is included with Transfer Film.

- 
- ⚠ CAUTION**
- Do not use Cleaning Tape/Cleaning Cards other than those listed above. Doing so may cause a malfunction.

**■ Consumable parts**

Thermal Heads and Cleaning Rollers that have exceeded the following service lives (usage period, printed sheets) require replacement.

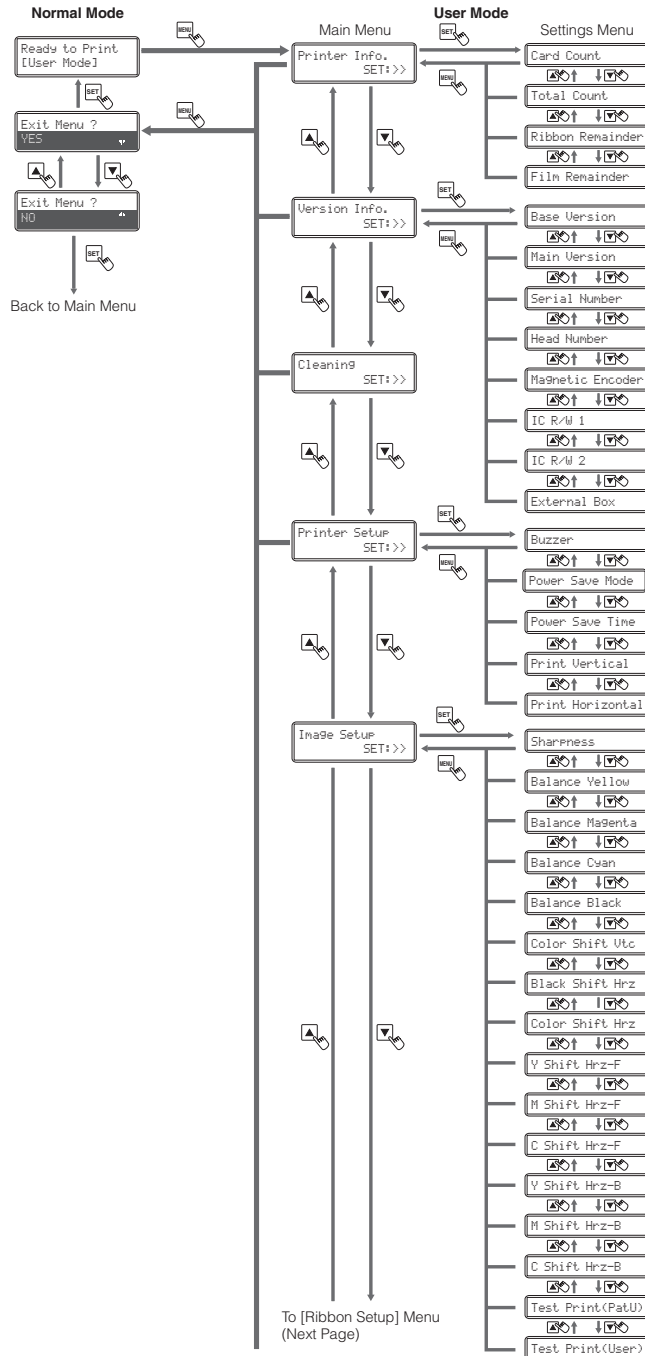
Product name	Service life
Thermal Head	Earlier of 1 year or 20,000 images
Cleaning Roller	Earlier of 1 year or 40,000 images

The service life depends on the usage environment.  
Please contact your reseller for Consumable parts.

## Updating the Printer's Software

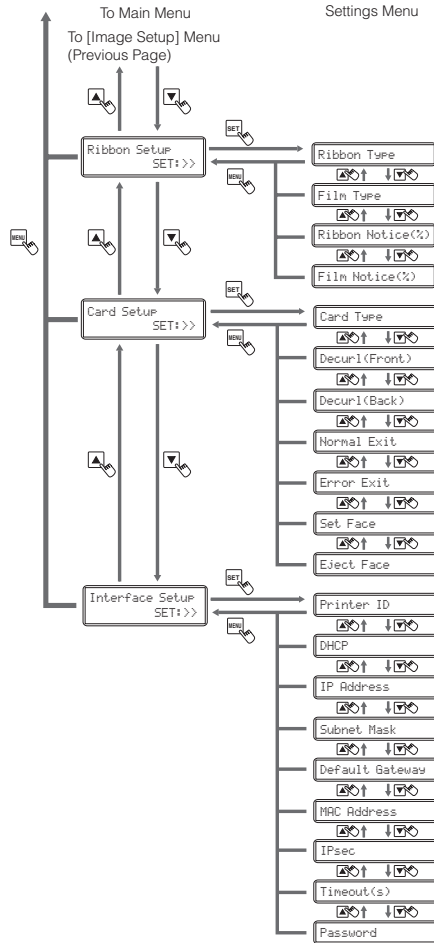
Please contact your reseller for upgrades to printer firmware and drivers.

# Menu Route Map (User Mode)





User Mode



## Main Specifications

	MC660
Function	Double-sided printing (full color)
Print system	Indirect transfer system
Print media	Material: PVC, PET, PET-G, Composite PVC, PC Thickness: 0.76-1.00 mm Size: according to CR-80 standards
Print quality	600 dpi
Print tones	Input tones: RGB, 256 tones/color, K2 tones Output tones: YMC 256 tones/color, K2 tones + 256 tones
Print area	3.404" × 2.125" (86.5 mm × 54 mm)
Print time	145 cards/hour using 4 colors single side printing
Ink ribbon	R-YMCK Ribbon (Overcoating Colors - 4 colors) R-YMCKK Ribbon (Front: Overcoating Colors/Reverse: Monochromatic - 5 colors)
Transfer Film	R-InTM1 (film)
Card feeding system	Automatic feed from the Card Case (250 card auto feed) Manual feed
Interface	USB2.0 Ethernet 100BASE-TX, IEEE802.3u (Operation guaranteed) USB2.0 × 1 (Port for extended users) RS-232C × 2 (Port for extended users)
Supported OS	Windows Vista (32 bit), Windows 7 (32/64 bit), Windows 8/8.1 (32/64 bit), Windows 10 (32/64 bit), Windows Server 2008 R2 (64 bit), Windows Server 2012 (64 bit)
Power source	AC90/120, 220/240 V, 50/60 Hz
Power consumption	Less than 300 W
Operating noise	While operating: less than 53 dB While waiting: less than 45 dB
Dimensions	17.2" (H) × 13.4" (W) × 11.7" (D) (436 mm x 340 mm x 297 mm)
Weight	42.9 lb (19.5 kg)
Operating environment	Temperature: 50 to 86°F/10 to 30°C Humidity: 20 to 80% RH (without condensation)

## Opening the Printer Driver Settings Screen

You can change settings or confirm the status of the printer from the printer driver's setting screen.

### ■ Opening the Setting Screen (From the Start Menu)

**If you are using Windows Server 2008 R2, Windows Server 2012, open the printer driver's setting screen as follows.**

[Start] → [Control Panel] → [View devices and printers] → [MC660] → [Printing preferences]

**If you are using Windows 10, open the printer driver's setting screen as follows.**

[Start] → [All apps] → [Windows system] → [Control Panel] → [View devices and printers] → [MC660] → [Printing preferences]

**If you are using Windows 8/8.1, open the printer driver's setting screen as follows.**

[Settings] → [Control Panel] → [View devices and printers] → [MC660] → [Printing preferences]

**If you are using Windows 7, open the printer driver's setting screen as follows.**

[Start] → [Control Panel] → [View devices and printers] → [MC660] → [Printing preferences]

**If you are using Windows Vista, open the printer driver's setting screen as follows.**

[Start] → [Control Panel] → [Hardware and Sound] → [Printers] → [MC660] → [Select printing preferences]

### ■ Opening the Setting Screen (From the Application)

**If you want to open the printer driver's setting screen from each application, follow the procedure below.**

[File] → [Print] → Select [MC660] as a printer name → [Preferences] (or [Properties])

### ■ Changing the Settings or Confirming the Status from the Setting Screen

**Follow the procedure below to change the settings or confirm the status after opening the setting screen.**

[Maintenance] tab → [Operation Panel] icon



- For more information about how to change the settings of the printer driver, refer to the driver help files.
- If using a network, the printer driver name will be "MC660 Network".

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