



Cleaning Guide

Entrust Datacard™
Retransfer Series Printers



March 2019

527983-001, Rev B

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Cleaning Kit Contents

The cleaning kit (part number 524554-001) contains the supplies necessary to clean the printer and maintain print quality. The cleaning kit contains the following items:

Cleaning Supply	Part Number
Cleaning Sleeves, 5 pack	569946-001
Cleaning Swabs, 5 pack	507377-001
Isopropanol Cleaning Cards, 10 pack	552141-002
Adhesive Cleaning Cards, 10 pack	524405-001
2 Lapping Sticks	510108-001
Card Inspection Gloves, 12 pairs/pack	812335-001

Refer to the [“Cleaning Schedule” on page 4](#) for a complete schedule of when to use the cleaning kit items.

For complete information about how to use and maintain the printer, refer to your printer’s *User’s Guide*.

Cleaning Schedule

Cleaning the retransfer series printer on a regular schedule helps to maintain the printer and obtain the best print quality

Routine Printer Cleaning

The following table describes the recommended routine cleaning tasks for the printer.

Schedule	Action	Procedure
Every 250 cards	Clean the printer with the isopropanol cleaning card.	<ul style="list-style-type: none"> • “Single-Hopper Printer” on page 7 • “Multi-Hopper Printer” on page 8
When you change the ink ribbon	Clean the printer with the isopropanol cleaning card.	<ul style="list-style-type: none"> • “Single-Hopper Printer” on page 7 • “Multi-Hopper Printer” on page 8
	Replace the cleaning sleeve (C3).	“Replace the Cleaning Sleeve” on page 15
Every 3 months	Clean the rear fan filter (if present).	Note: The rear fan filter is not present in all printer models. If the filter is present, refer to “Clean the Rear Fan Filter” on page 20 .

In addition to these routine cleaning tasks, you may need to perform additional cleaning procedures if you notice that the print quality has diminished. Refer to [“Additional Cleaning Tasks” on page 5](#).

Additional Cleaning Tasks

The following table describes additional cleaning tasks you may need to perform to maintain your printer and print quality. Do these procedures only if you begin to experience printing issues.

Schedule	Action	Procedure
If you see particles on completed cards	Replace the cleaning sleeve (C3).	“Replace the Cleaning Sleeve” on page 15
	Clean the printer with the adhesive cleaning card.	<ul style="list-style-type: none"> • “Single-Hopper Printer” on page 10 • “Multi-Hopper Printer” on page 11
If you see repeating color dots on completed cards	Clean the printhead cam rollers.	“Clean the Printhead Cam Rollers” on page 17
If you see color or white lines on completed cards	<ul style="list-style-type: none"> • Clean the printhead using the cleaning swab. • If print quality continues to diminish, clean the printhead using the lapping stick. 	<ul style="list-style-type: none"> • “Use the Cleaning Swab” on page 18 • “Use the Lapping Stick” on page 19



The type of card stock you use and the printer environment can affect how often you need to perform the cleaning procedures.

Refer to [“Card Handling Information” on page 21](#) for suggestions to help manage your card stock.

Before You Begin

- If your printer has locks, unlock the input hopper or printer access door lock. If your printer does not have locks, disregard any instructions that ask you to unlock the printer.
- When you clean a printer using either the isopropanol or adhesive cleaning card, we recommend that you remove both the ink ribbon (C1) and retransfer film (C2) cartridges. If you are not authorized to do so, disregard that portion of the instructions.



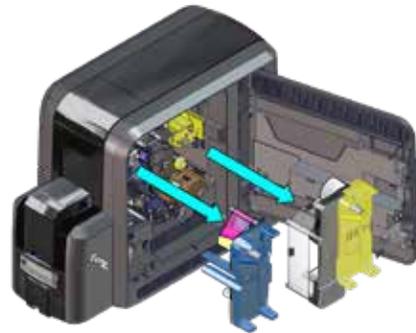
When using the isopropanol cleaning card:

- Between ribbon changes, removing the ink ribbon and retransfer film cartridges is optional.
- If you change the ink ribbon, remove the supplies to clean the printer.

- Other procedures require you to remove only one of the cartridges. Refer to the instructions for complete information.

Do the following to remove the supply cartridges if directed by the cleaning instructions.

1. Unlock the printer and open the printer access door.
2. Remove the ink ribbon and retransfer film cartridges.
3. Close and lock the printer access door, unless instructed otherwise.



4. Continue with the cleaning procedure.

Use the Isopropanol Cleaning Card

Use the isopropanol cleaning card regularly to clean the printer.

Single-Hopper Printer

1. Remove the ink ribbon and retransfer film cartridges. Refer to “Before You Begin” on page 6.
2. Unlock and open the input hopper.
3. Remove the unprinted cards. Handle the cards by the edges or wear card inspection gloves.

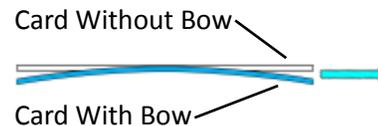


4. Open the cleaning card package and remove the isopropanol cleaning card.



5. Load the cleaning card in the input hopper. Clean the printer immediately. The cleaning card dries out if it is out of its package for more than a few minutes.

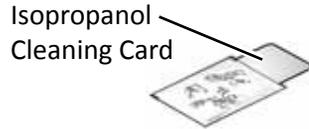
If the cleaning card appears bowed, insert it as shown.



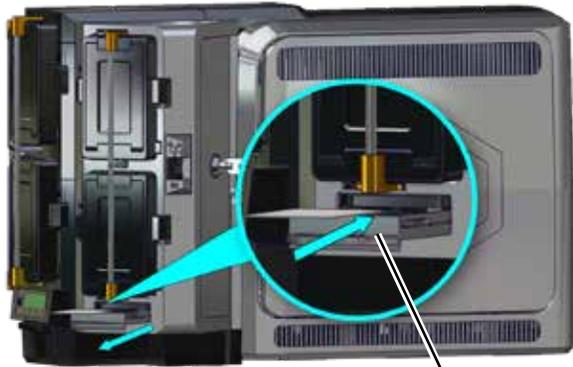
6. Close the input hopper and lock the printer.
7. Continue with “Run the Isopropanol Cleaning Card” on page 9.

Multi-Hopper Printer

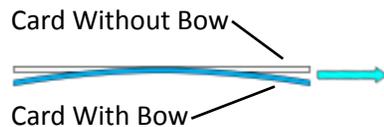
1. Remove the ink ribbon and retransfer film cartridges. Refer to “Before You Begin” on page 6.
2. Open the cleaning card package and remove the isopropanol cleaning card.



3. Pull out the multi-hopper exception slide and insert the cleaning card.
4. Push in the exception slide. Clean the printer immediately. The cleaning card dries out if it is out of its package for more than a few minutes.



If the cleaning card appears bowed, insert it as shown.

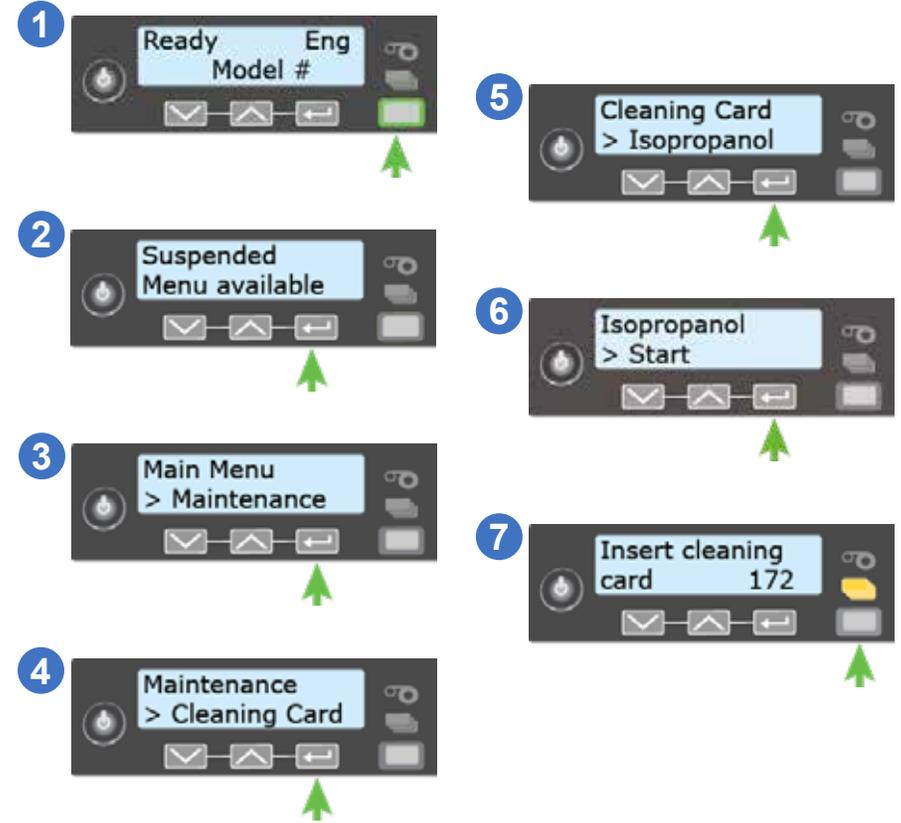


Exception Slide

5. Continue with “Run the Isopropanol Cleaning Card” on page 9.

Run the Isopropanol Cleaning Card

1. Use the LCD panel to run the isopropanol cleaning card.



When the cleaning cycle completes:

- **If the printer does not have locks:** The isopropanol cleaning card is ejected into the output hopper. Remove and discard the cleaning card.
 - **If the printer has locks:** The isopropanol cleaning card is placed in the printer reject tray (RT1). It can remain in the reject tray until the next time the tray is emptied.
2. Continue with “Prepare the Printer for Use After Cleaning” on page 14.

Use the Adhesive Cleaning Card

Use the adhesive cleaning card to remove particles that result from the retransfer process. Refer to “Additional Cleaning Tasks” on page 5 for information about when to use the adhesive cleaning card.

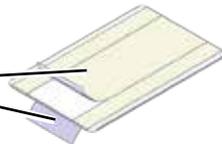
Single-Hopper Printer

1. Remove the ink ribbon and retransfer film cartridges. Refer to “Before You Begin” on page 6.
2. Unlock and open the input hopper.
3. Remove the unprinted cards. Handle the cards by the edges or wear card inspection gloves.



4. Peel off the center strips on both sides of the adhesive cleaning card. Leave the side strips in place.

Peel Off Center Strips Only



5. Load the adhesive cleaning card in the input hopper.

If the cleaning card appears bowed, insert it as shown.

Card Without Bow

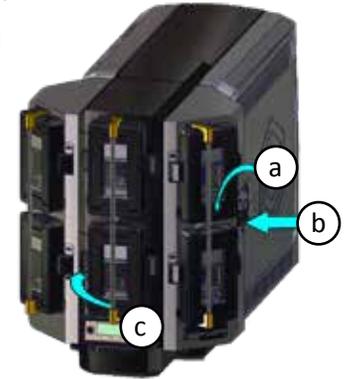
Card With Bow



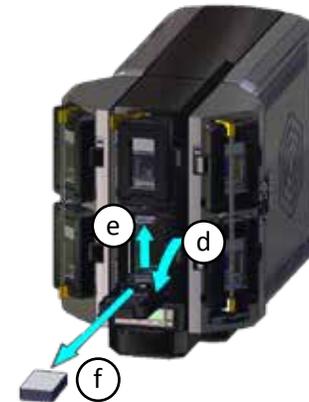
6. Close and lock the input hopper.
7. Continue with “Run the Adhesive Cleaning Card” on page 13.

Multi-Hopper Printer

1. Remove the ink ribbon and retransfer film cartridges. Refer to “Before You Begin” on page 6.
2. Unlock the multi-hopper.
 - a. Unlock the multi-hopper door lock (a).
 - b. Slide the lock bar release button (B1) to the left to release the hopper lock bars (b).
 - c. Rotate the center lock bar to the left to provide access to the H2 and H5 multi-hopper input cartridges (c).

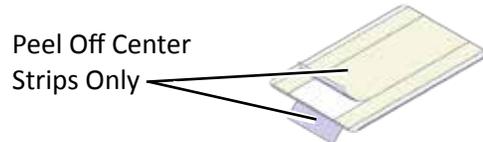


3. Press the cartridge release button at the top of the H2 cartridge and open the cartridge door (d).
4. Lift the card weight to the top of the cartridge and gently pull it forward until it locks in position (e).
5. Remove the unprinted cards from the H2 cartridge (f). Handle the cards by the edges or wear card inspection gloves.



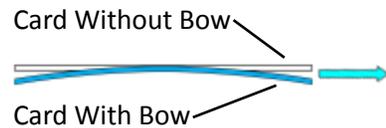
Multi-Hopper Printer (cont.)

- Peel off the center strips on both sides of the adhesive cleaning card. Leave the side strips in place.



- Load the adhesive cleaning card in the H2 cartridge and close the cartridge door (g).

If the cleaning card appears bowed, insert it as shown.



 Do not insert the adhesive cleaning card in the exception slide of the multi-hopper.

- Lock the multi-hopper.
 - Rotate the center lock bar to the right to the lock position.
 - Slide the lock bar release button to the right to lock the lock bars into place.
 - Lock the multi-hopper door lock.
- Continue with [“Run the Adhesive Cleaning Card”](#) on page 13.

Run the Adhesive Cleaning Card

- Use the LCD panel to run the adhesive cleaning card.

- Ready Eng Model #
- Suspended Menu available
- Main Menu > Maintenance
- Maintenance > Cleaning Card
- Cleaning Card > Isopropanol
- Cleaning Card > Adhesive
- Adhesive > Start
- Insert cleaning card 172

OR

- Insert cleaning card in H2 278

If you are cleaning a single-hopper printer, the following message displays.

If you are cleaning a multi-hopper printer, the following message displays.

When the cleaning cycle completes, the adhesive cleaning card is ejected into the printer reject tray (RT1).

- Continue with [“Prepare the Printer for Use After Cleaning”](#) on page 14.

Prepare the Printer for Use After Cleaning

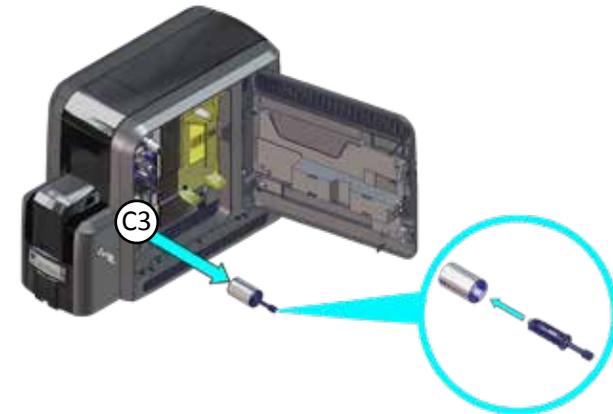
Do the following after the cleaning cycle completes.

1. If you removed the ink ribbon and retransfer film cartridges:
 - a. Unlock the printer and open the printer access door.
 - b. Remove the used cleaning card from the printer reject tray (RT1).
 - c. Discard the cleaning card.
 - d. Install a new cleaning sleeve. Refer to [“Replace the Cleaning Sleeve” on page 15](#).
 - e. Replace the ink ribbon and retransfer film cartridges.
 - f. Close and lock the printer access door.
2. Unlock the input hopper lock.
3. Replace the cards in the input hopper of a single-hopper printer, or the H2 cartridge of a multi-hopper printer.
4. Close the input hopper and lock the input hopper lock.

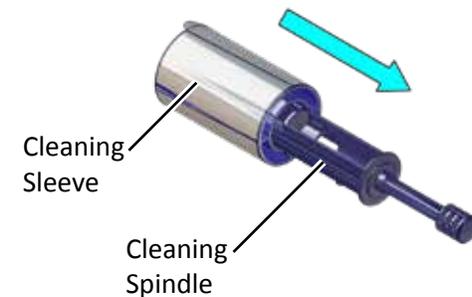
Replace the Cleaning Sleeve

The cleaning sleeve helps maintain print quality by removing dust and other particles from cards before they travel into the printer. Refer to the [“Cleaning Schedule” on page 4](#) for the replacement schedule.

1. Remove the ink ribbon (C1) cartridge from the printer (refer to [“Before You Begin” on page 6](#)).
2. Lift up the cleaning spindle handle (C3) and pull it straight out from the printer.
3. Remove the used cleaning sleeve from the cleaning spindle and discard it.

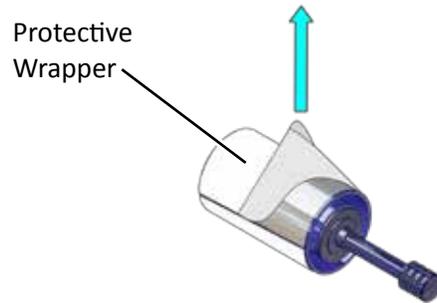


4. Slide the new cleaning sleeve onto the cleaning spindle.

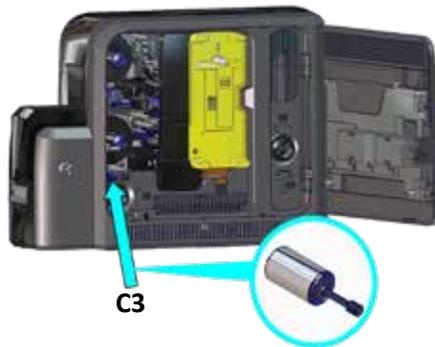


Replace the Cleaning Sleeve (cont.)

- Remove the protective wrapper from the cleaning sleeve and discard it.



- Replace the cleaning spindle in the C3 slot in the printer.

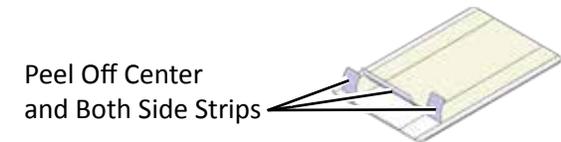


- Replace the ink ribbon cartridge in the printer and close and lock the printer access door.

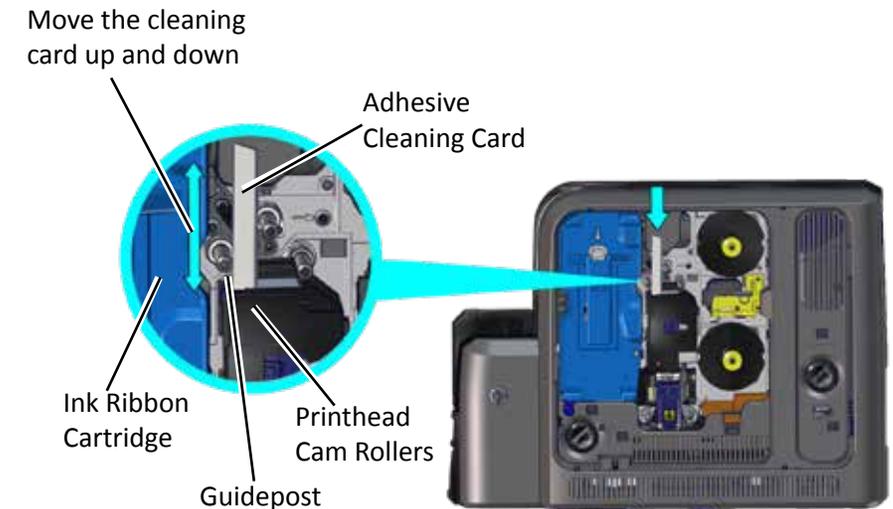
Clean the Printhead Cam Rollers

Use the adhesive cleaning card to clean the printhead cam rollers.

- Power off the printer.
- Remove the retransfer film (C2) cartridge from the printer (refer to "Before You Begin" on page 6).
- Peel off the center and both side strips from one side of the adhesive cleaning card.



- Insert the cleaning card vertically into the printer between the retransfer cartridge guidepost and the rollers. Make sure that the adhesive side of the card faces to the right and touches the rollers.
- Move the cleaning card up and down along the rollers to remove any debris.

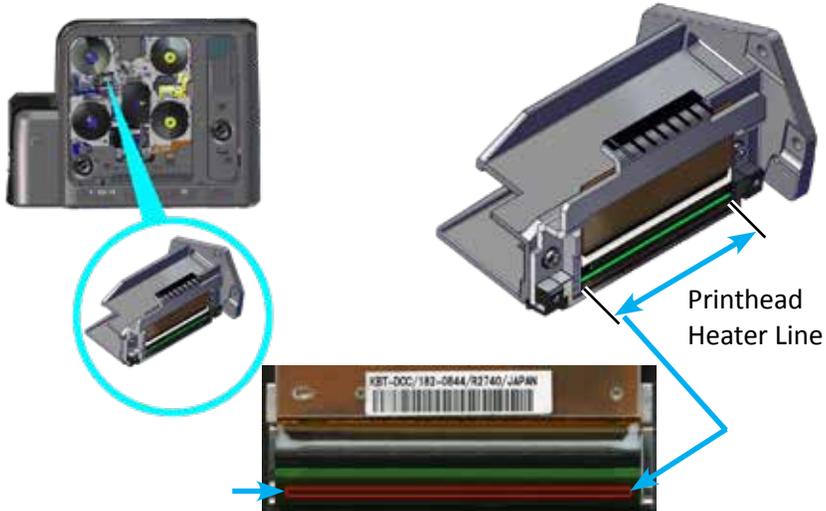


- Replace the retransfer film cartridge. Close and lock the access door and restart the printer.
- Discard the used cleaning card.

Clean the Printhead

Use the Cleaning Swab

1. Power off the printer.
2. Remove the ink ribbon (C1) and retransfer film (C2) cartridges from the printer (refer to “Before You Begin” on page 6).
3. Open and remove a cleaning swab from its package. 
4. Using gentle pressure, move the cleaning swab along the full length of the heater line on the printhead.



5. Replace the ink ribbon and retransfer film cartridges.
6. Close the printer access door and lock the printer.
7. Press the Power button to restart the printer.
8. Print a sample card to verify the quality of printing.

Clean the Printhead (cont.)

Use the Lapping Stick

If the print quality does not improve after using the cleaning swab, clean the printhead using the lapping stick.

1. Power off the printer.
2. Remove the ink ribbon and retransfer film cartridges from the printer.
3. Open and remove the lapping stick from its package.



 Do not remove the pink lapping paper from the lapping stick.

4. Repeat [step 4 on page 18](#) using the lapping stick.
5. Open a new cleaning swab and repeat [step 4](#) again to remove any left-over debris that was loosened by the lapping stick from the printhead.
6. Repeat [steps 5 through 8 on page 18](#) to complete the cleaning process.

HINTS & TIPS

- Avoid touching the heater line of the printhead with your fingers. Contamination due to skin oils can damage the printhead.
- Avoid touching the heater line of the printhead cartridge with any sharp objects that can permanently damage the printhead.
- Use only the lapping stick and cleaning swabs to clean the printhead. Other materials can stick to the printhead and cause damage.
- Use the lapping stick and each cleaning swab one time only. Discard the materials after you clean the printhead.

Clean the Rear Fan Filter

 The rear fan filter is not present in all printer models.

If your printer includes a rear fan filter, clean the filter every three months.

1. Unlock the printer and open the printer access door.
2. Press the K3 rear access door release to open the rear access door.
3. Lift up and remove the filter from the fan mount.



4. Rinse the filter under running water and shake it gently to remove excess liquid. Pat it with a paper towel to remove additional water.
5. Allow the filter to dry completely.
6. Insert the filter into the fan mount.
7. Close the rear access door.
8. Close the printer access door and lock the printer.

Card Handling Information

Use the following information when purchasing and handling card stock:

- Purchase quality card stock. Excessive burrs, scratches, surface defects, or contaminants on cards can result in print errors.
- Grease or oils, such as oils from your fingers, can reduce card quality. To keep cards completely clean, do not touch the print surface of a card.
- Handle blank card stock by the edges only, or wear the card inspection gloves included in the cleaning kit.
- Debris or particles on blank card stock can reduce card quality and damage the system. If you drop a card on the floor, clean it using a lint-free cloth before using it in the system. Do not use solvents to clean the card.
- Avoid contact with the following, as they can cause discoloration or fading of the cards:
 - Organic solvents, such as alcohol, film cleaner, or diazo paper.
 - Soft vinyl chlorides, document cases, pass holders, or erasers.
 - Hand lotions, hairdressing products, or cosmetics.
- Avoid storing the cards in locations exposed to direct sunlight, or with high temperature and high humidity.

Notes

Notes



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