



# **Zebra® P630*i* & P640*i* Card Printer**

## **User's Manual**



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# Introduction

Thank you for choosing the Zebra P630i or P640i Card Printer. This manual guides you to efficient start up and operation of your new Card Printer.



The Zebra P630i and P640i Card Printers provide high speed, full color dual-sided card printing. A micro-positioning card transport system provides enhanced color photos. A range of interface, encoder/reader, and security options allow ordering the specific configuration suitable for a particular application.

The difference between the P630i and the P640i is that the P630i has a single-sided laminator (i.e., it lays down and seals a laminating film on the top surface of the printed card), while the P640i has a dual-sided laminator (i.e., it lays down and seals laminating film on both surfaces of the printed card).

References in this document that refer to either or both of the models will be in the form of “the printer” or “the P630i/P640i Printer”; references that are specific to one or the other will be in the form of “the P630i Printer” or “the P640i Printer.”

## Part Numbers

The Part Number of a particular Printer is shown on a label affixed to the bottom of the printer; that Part Number identifies the specific configuration for that printer.

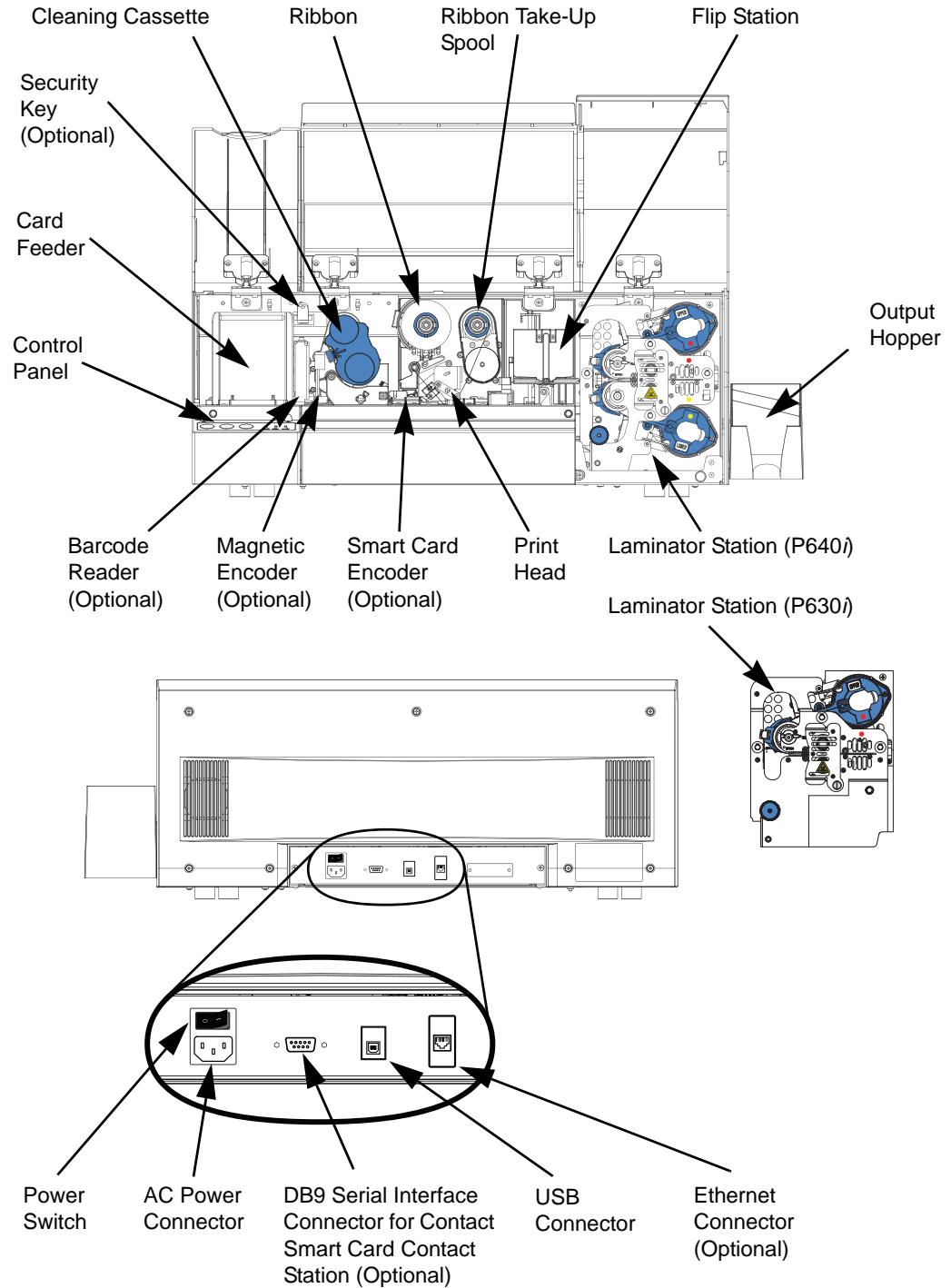
This chart shows the configurations that are available.

PART NUMBER	DESCRIPTION
P 6 3 0 i - - - - - - - - - -	<b>Base Printer</b> P630i Dual-Sided Color Card Printer with Single Linerless Laminator
P 6 3 0 iS - - - - - - - - - -	P630iS Dual-Sided Color Card Printer with Single Linerless Laminator and Advanced ID Key Security Feature
P 6 4 0 i - - - - - - - - - -	<b>Base Printer</b> P640i Dual-Sided Color Card Printer with Dual Linerless Laminator
P 6 4 0 iS - - - - - - - - - -	P640iS Dual-Sided Color Card Printer with Dual Linerless Laminator and Advanced ID Key Security Feature
- - - - - - - - - - 0 - - - - -	<b>Smart Card Options</b> None
- - - - - - - - - - B - - - - -	Contact Encoder
- - - - - - - - - - E - - - - -	Contact Station
- - - - - - - - - - 0 0 - - - - -	<b>Magnetic Encoder</b> None
- - - - - - - - - - M 3 - - - - -	Stripe Up, HiCo
- - - - - - - - - - 0 0 - - - - -	<b>Barcode Reader</b> None
- - - - - - - - - - B 1 - - - - -	Linear
- - - - - - - - - - - - - - 0 - - - - -	<b>Memory Expansion</b> None
- - - - - - - - - - - - - - A - - - - -	<b>Interface</b> USB Standard Configuration
- - - - - - - - - - - - - - C - - - - -	USB and Built-In Ethernet 10/100T
- - - - - - - - - - - - - - - I - - - - -	<b>Power Cords</b> 102V AC U.S. and 230V AC Europe
- - - - - - - - - - - - - - - U - - - - -	U. K. and Australia
- - - - - - - - - - - - - - - - - - D - - - - -	<b>Windows Drivers and User Documentation / Training</b> Windows Driver CD (Win 2K and XP) and User Documentation & Training CD
- G - - - - -	<b>RoHS</b> Compliant



# Printer Features

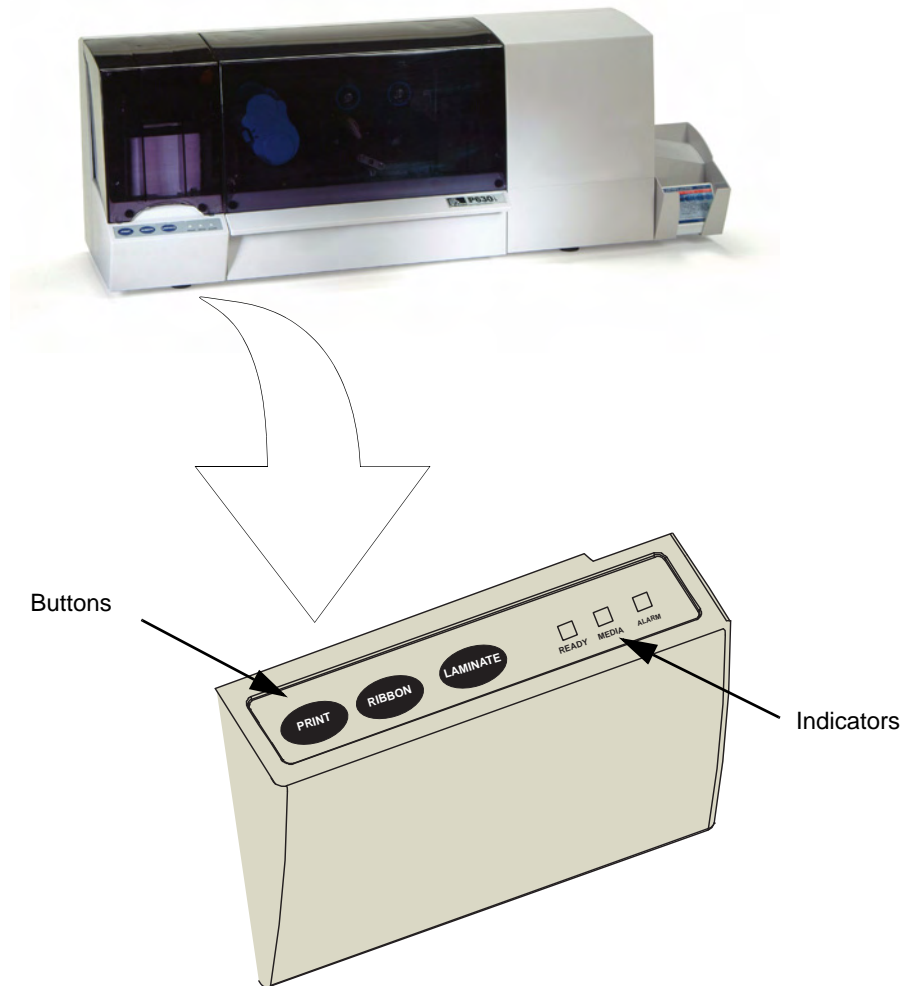
The following figure shows features of the P630i/P640i Printer.



## Controls and Indicators

### Control Panel Buttons

A limited amount of control and status information is available at the Control Panel on the front of the printer. Additional control functions and status information is available via the host or networked computer(s).



## PRINT Button

Press the **PRINT** button to print the image stored in the printer's memory. When the printer is powered up, the memory is loaded with a checkerboard test pattern.



In regular on-line use, the **PRINT** button reprints the last image downloaded from the computer to the buffer memory. If you hold the **PRINT** button down and power up the printer, the Ribbon Synchronization feature (which normally forces a ribbon synchronization whenever the door is closed or the printer is powered up) is disabled.

If you press and hold the **PRINT** button for more than two seconds, the printer will continuously reprint the image in the buffer. Stop this action by pressing the button momentarily while printing is in process.

Note that pressing the **PRINT** button will have no effect if any of the following applies:

- An error condition exists
- You have set up the print driver to print color on both sides of the card
- The optional hardware lockout key, ID/Key, is missing (but this does not disable the checkerboard printout available after power-up).

## **RIBBON Button**

This button is used to synchronize the ribbon – in other words, to position it correctly under the print head. If you hold the **RIBBON** button down and power up the printer, it toggles on/off the Ribbon Synchronization feature when the door is closed.

In standard applications, the ribbon type is YMCK, and the back of the card is printed first. In such cases, pressing the **RIBBON** button will advance the color ribbon to bring the leading edge of the next black panel under the print head.

If back side printing is not enabled, the printer will synchronize on the next yellow panel when the **RIBBON** button is pressed.

## **LAMINATE Button**

(For the P640i Printer, this applies to the Upper and Lower Laminator; the P630i Printer has only the Upper Laminator.)

If either (or both) of the laminate transfer rollers is not loaded with a laminate patch, then pressing the **LAMINATE** button will correct the condition, provided the cassette is not out of laminate, and if the cassette latch is closed (locked).

If both transfer rollers are already loaded, the **LAMINATE** button has no effect.

If you hold the **LAMINATE** button down and power up the printer, it toggles on/off the Ribbon Synchronization feature when the printer is powered up.

A standard use of the **LAMINATE** button is in reloading a transfer roller after removing the first hand-cut patch of laminate following installation of a fresh roll.

## Control Panel Indicators

Depending on the condition they are reporting, the three indicator lights, READY, MEDIA, and ALARM, can be in one of three states: Off, On (steady), or Flashing.



**Note** • The READY indicator is I-colored. Its two color channels, **green** and **yellow**, function independently.

<b>READY Indicator</b>	Green:	Steady = Ready to print.
		Flashing = Printer busy.
	Yellow:	Steady = Laminator(s) in sleep mode.
		Flashing = Laminator(s) not at operating temperature.
<b>MEDIA Indicator</b>	Orange:	Off = Normal.
		Steady = Any media outage.
		Flashing = Magnetic encoding failure.
<b>ALARM Indicator</b>	Red:	Off = Normal.
		Steady = Error condition requiring intervention.
		Flashing = Printhead temperature error, or major internal control problem requiring power cycling of the printer (OFF, pause, then ON).

## Icons

Throughout this manual, different icons highlight important information, as follows:



**Note** • Indicates information that emphasizes or supplements important points of the main text.



**Important** • Advises you of information that is essential to complete a task, or points out the importance of specific information in the text.



Provides an example or scenario to demonstrate or clarify a section of text.



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**Electrostatic Discharge Caution** • Warns you of the potential for electrostatic discharge.

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**Electric Shock Caution** • Warns you of a potential electric shock situation.

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**Hot Surface** • Warns you of a situation where excessive heat could cause a burn.

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**Caution** • Advises you that failure to take or avoid a specific action could result in physical harm to you, or could result in physical damage to the hardware.

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# Installation

## Introduction

Installation includes setting up the printer, installing the printer driver in the computer(s) that will be sending print jobs to the printer, connecting the interface, installing the Cleaning Cartridge, loading the cards, ribbon, and laminate, and verifying that the printer can print a test card.

Loading the Printer Driver software is described in Section 3.

## Installation Procedure


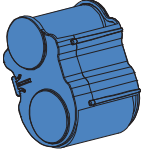
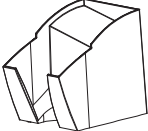

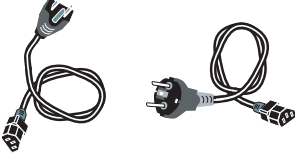
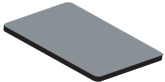
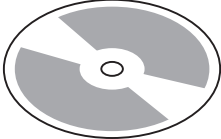
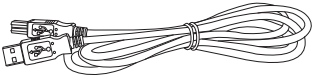


**Important** • Execute the procedures that follow in the order given.

### Removing the Printer from the Shipping Carton

- Step 1.** Open and remove the plastic handle/latches on either end of the shipping carton.
- Step 2.** Lift the upper part of the shipping carton off the lower part.
- Step 3.** Remove the items from the cutouts in the foam block atop the printer.

**Step 4.** Verify that the following items are included:

Printed Quick-Start Guide	
Cleaning Cartridge	
Output Hopper	
Ribbon Take-up Spool	
Two Power Cords	
Card Weight	
Documentation & Driver CD	
USB Interface Cable	



**Step 5.** Remove the foam block from the top of the shipping carton.

**Step 6.** Lift the printer from the shipping carton.



**Caution** • The printer weighs approximately 15.9 kg (35 lbs).

**Step 7.** Remove the protective plastic bag from the printer.



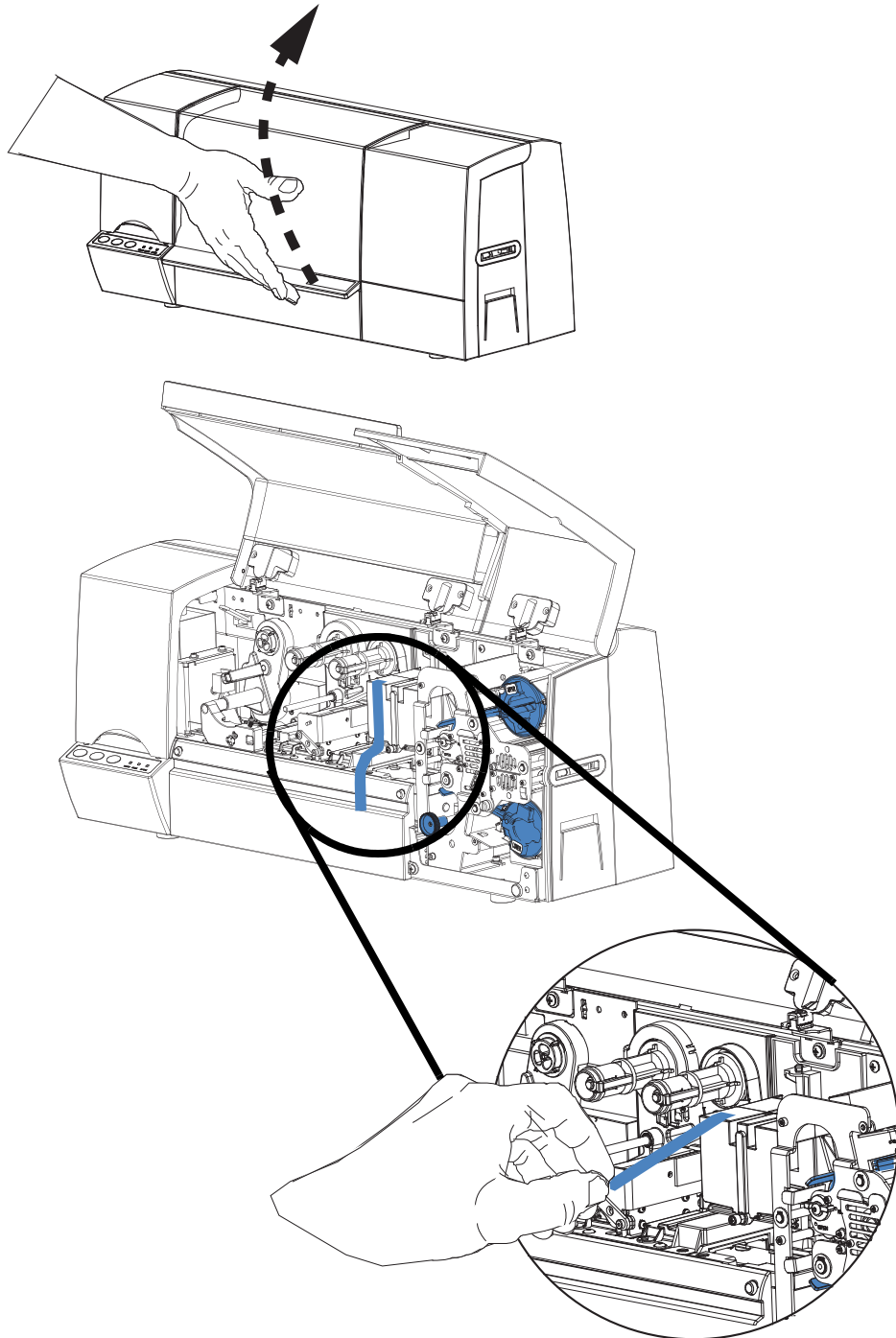
**Important** • Save all the packing material and the shipping carton in case the printer needs to be moved or shipped. If the original material is lost or damaged, a replacement Shipping Kit can be ordered from Zebra.

**Step 8.** Place the printer in a location that meets the following requirements:

- A reasonably dust- and dirt-free environment will give better print quality.
- Flat surface at least 699 mm (27.5 in) x 246 mm (9.7 in) that can support the weight of the printer; additional space preferred.
- Vertical clearance at least 450 mm (17 in). There should be easy access to all sides of the printer.
- Temperature within the range of 10° to 35°C (50° to 95°F).
- Relative Humidity 20 to 80%, non-condensing.
- AC power accessible.

## Removing the Shipping Tape

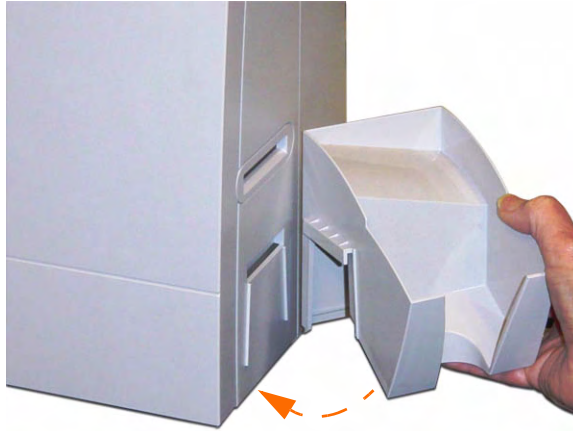
- Step 1.** Open the printer Main Cover. Locate and remove the blue tape that secures the flip station in position.



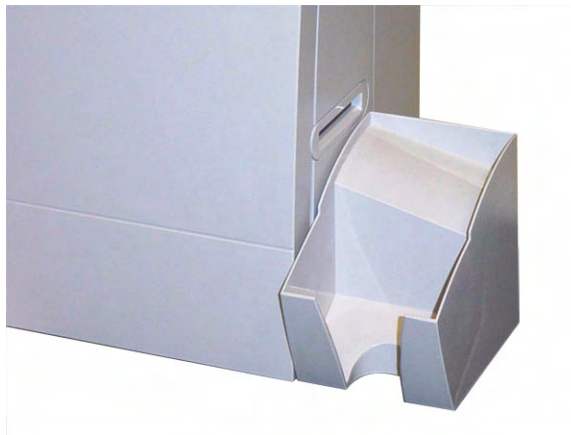
## Attaching the Output Hopper

The Output Hopper is positioned on the right side of the printer to receive the printed cards.

**Step 1.** Install the Output Hopper by inserting the tab on the left side of the Output Hopper into the slot on the right side of the printer.

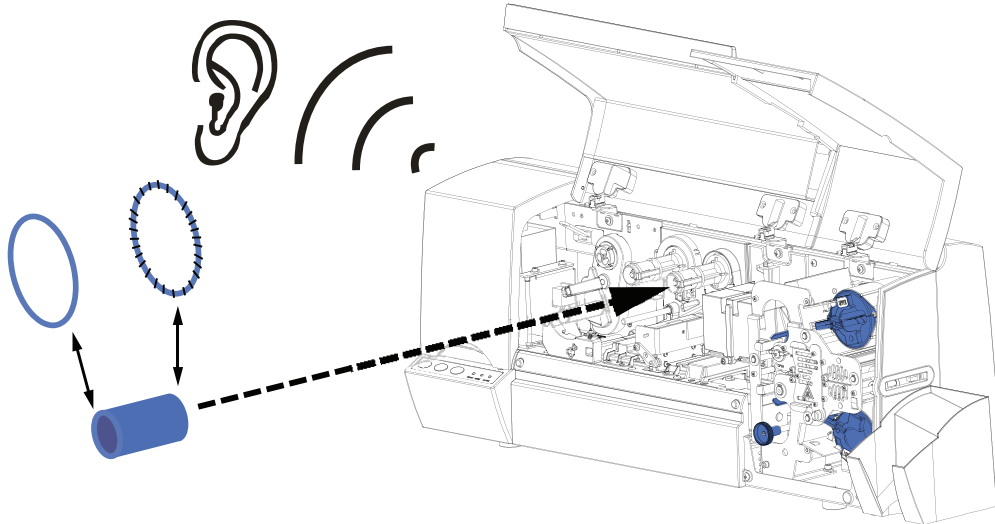


**Step 2.** Ensure the lip on the Output Hopper locks securely in the slot in the Printer.



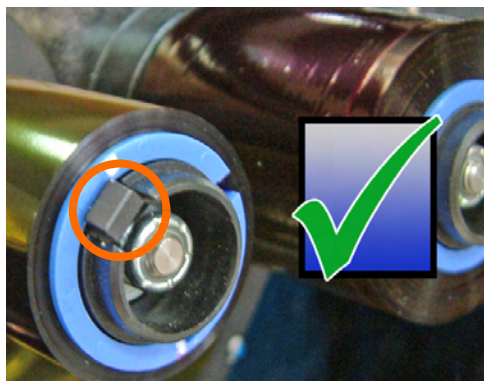
## Attaching the Ribbon Take-Up Spool

**Step 1.** Attach the Ribbon Take-Up Spool by sliding it onto the Ribbon Take-Up Spindle and pressing it straight back until it clicks into place.



**Important** • Make sure that the Ribbon Take-Up Spool is attached with its “toothed” end toward the rear of the printer.

The two figures below show the right and wrong ways to insert the printing ribbon on either spindle.



Right way: the clip is OVER the core.



Wrong way: the core is not pushed fully against the back side, resulting in a Y border on the printed cards.