



BradyPrinter A5500

FLAG PRINTER APPLICATOR

User Manual

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Y4830685

Revision A

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Safety and Environment

Please read and understand this manual before using the BradyPrinter A5500 printer for the first time. This manual describes all of the main functions of the BradyPrinter A5500 printer.

Precautions

Before using the BradyPrinter A5500 printer, please note the following precautions:

- Read all instructions carefully before operating the printer and prior to performing any procedure.
- Do not place the unit on an unstable surface or stand.
- Do not place anything on top of the unit.
- Keep the top clear of obstructions.
- Always use the printer in a well ventilated area. Do not block the slots and openings on the unit, which are provided for ventilation.
- Only use the power source indicated on the rating label.
- Use only the power cord that comes with the unit or one that is suitable for your country's standards.
- Do not place anything on the power cord.

Technical Support and Registration

Contact Information

For repair or technical assistance, locate your regional Brady Technical Support office by going to:

- **United States:** www.bradyid.com/techsupport
- **Europe:** www.bradyeurope.com/services
- **Asia Pacific:** www.brady.co.uk/landing-pages/global-landing-page
- **Australia:** www.bradyid.com.au/en-au/supportlanding
- **Canada:** www.bradycanada.ca
- **Latin America:** www.bradylatinamerica.com

Registration Information

You will need the printer's serial number, located on the back of the unit, to register your product.

To register your printer go to:

- www.bradycorp.com/register

Repair and Return

If for any reason you need to return the product for repair, please contact **Brady** Technical Support for repair and replacement information.

Contents

1 • Introduction

Registration	1
About the User's Manual	1
Technical Specifications	2
<i>Physical Dimensions</i>	2
<i>Environmental Ranges</i>	2
<i>Materials Storage Specifications</i>	2
<i>Electrical Specifications</i>	3
<i>Fuse</i>	3
System Requirements	3

2 • Safety

Automatic Stops	4
Front Door	4
Side Door	5
Electrical Safety	5

3 • Component Locations

4 • Installation and Preparation

Unpack and Set Up the Printer	9
Unpack	9
Remove Shipping Materials Inside Housing	10
Bolt Printer to Work Surface (Optional)	11
Power Up the Printer	12
Connect Unit to Power	12
Power Unit On	12
Printer Settings	12
Language	12
Units of Measure	12
Date and Time	13
Printer Name	13
Advance to Next Label	13
Wrapper Tension	14
File Location	14
Load Software and Connect Printer	15
Installing the Driver	15
Wi-Fi	15
<i>Search to Connect</i>	15
<i>Connect Manually</i>	16
<i>Configure Networking on the Printer</i>	16
Connect with a USB Cable	16
Load Label Supply	17

<i>Remove previously used material:</i>	19
Load the Printer Ribbon	23
<i>Remove the old ribbon</i>	24
5 • General Operation	
Using the Touch Screen	26
<i>Status Bar</i>	27
Functions	28
Run	28
Print Jobs	29
<i>Finding a Print Job</i>	29
<i>Adding a Job to the Queue</i>	29
<i>Deleting a Job</i>	30
Print Queue	30
Apply Only	30
Load Supplies	31
Settings	31
<i>Connection</i>	31
<i>System Configuration</i>	32
<i>Print Adjustments</i>	32
<i>Print Queue</i>	33
<i>About</i>	33
<i>Maintenance</i>	33
<i>Import Files</i>	33
Creating, Printing, and Applying Flagged Labels	35
Transfer Print Jobs from one BradyPrinter A5500 to Another	36
Import Print Jobs	37
<i>Running a File Using a Barcode Scanner</i>	37
6 • Maintenance	
Cleaning	39
Before You Begin	39
Cleaning the Flagger Surface	40
Cleaning the Print Head	41
Cleaning the Rollers	42
Cleaning the Sensors	43
Cleaning the Fan Filter	46
Lubrication	46
Oiling the Slide Track	46
Clean and Grease the Flagger Hub	48
Replace Flagger Block Assembly	49
Replace Print Head Assembly	51
Installing an Upgrade	52
7 • Troubleshooting	
.....	55
8 • Mounting Dimensions	

Bolt Printer to Work Surface.....	56
A • Regulatory Compliance	
Agency Compliance and Approvals	59
United States	59
<i>FCC Notice</i>	59
Canada	59
Europe	59
<i>Batteries Directive 2006/66/EC</i>	60
Turkey	60
China	60
Wireless Regulatory Information	61
United States	61
Canada	62
Mexico	62
European Union	62
International	63
B • Licensing	
End User License Agreement for Microsoft Windows CE©	64

1 Introduction

The BradyPrinter A5500 printer is a semi-automatic computerized system that integrates the print-and-apply processes used for flag labels on wire and cable. Design labels on your computer using Brady Workstation software. Transfer the label files to the BradyPrinter A5500 printer for printing and applying flag labels on a variety of wires and cables. To get Brady Workstation software, go to <http://workstation.bradycorp.com/>.

For instructions on general use, see “General Operation” on page 26 of this manual.

Registration

Please register your BradyPrinter A5500 printer online at www.bradycorp.com/register. Your printer must be registered within 30 days to validate warranty and machine support.

About the User's Manual

This manual contains information on the features, functions and operation of the BradyPrinter A5500 printer. For information on using Brady Workstation software, please refer to the help within the software.

Read “Electrical Safety” on page 5 prior to setting up or operating the printer. It contains information necessary for the safe operation of the unit. Pay attention to safety instructions in this manual marked as follows:



WARNING! Impending Danger! May cause death or physical injury.



CAUTION! Dangerous Situation! May cause equipment/material damage or data loss.

Technical Specifications

The BradyPrinter A5500 printer has the following specifications:

- 300 dots per inch (11.8 dots per mm) print resolution
- 3.0 inches per second (76.2 mm per second) print speed
- Flagging speeds:
 - 6 seconds (apply only)
 - 6.5 seconds (print and apply)
- Accommodates wires between 0.060" (1.524 mm) minimum and 0.600" maximum (15.24 mm) without adjustment
- Supports labels up to 2" (50.8 mm) wide
- Supports labels from 1.5" (38.1 mm) minimum to 4.0" (101.6 mm) maximum height. (4.0" / 101.6 mm maximum printable height)
- One-year warranty
- Accepts USB drives for added storage capability and standalone operation. USB drives must be formatted with FAT, FAT32, or exFAT file systems. The BradyPrinter A5500 printer does not support NTFS.

Physical Dimensions

Physical	Metric Units	U.S. Units
Dimensions (width, height, depth)	381 x 458 x 610 mm	15 x 18 x 24 in
Weight	34 kg	75 lb

Environmental Ranges

Environmental	Operation	Storage
Temperature*	50 to 105°F (10 to 41°C)	0 to 140°F (-18 to 60°C)
Relative Humidity	20 to 80% non-condensing	10 to 95% non-condensing
*Exposing the BradyPrinter A5500 printer to direct sunlight is not recommended.		

Materials Storage Specifications



CAUTION! Consumable material for use with this unit must be stored in its original packaging in an environment in which the temperature is below 80°F / 26° C and 60% relative humidity.

Electrical Specifications

Input Voltage	100 - 240 V~
Current	2 A
Frequency	50/60 Hz

Fuse

UL listed 3 Amp, 5 mm by 20 mm SLO-BLO fuse, Brady part number Y949020.

System Requirements

Following are the *recommended* requirements for the computer on which you install the BradyPrinter A5500 Windows Driver:

- Operating system:
 - Microsoft® Windows® 7
 - Microsoft Windows 8
 - Microsoft Windows 10

2 Safety

This section contains safety information necessary for the safe operation of the BradyPrinter A5500 printer. Be sure to read this section prior to setting up or operating the unit.

Always be sure to adhere to the safety standards regulating your operating environment. Also adhere to the following safety rules included in or in addition to your specific standards:



WARNING! Do not wear loose clothing—such as long sleeves or scarves—that could become caught in the unit.



CAUTION! Keep areas around the unit clean at all times.

Automatic Stops

The BradyPrinter A5500 printer uses the following automatic safety stops:

Front Door

A plastic cover protects the jaws of the unit. The unit is designed to automatically stop all moving parts when the plastic cover is open.



Side Door

Moving parts in the printing and flagging mechanism stop when the side door is opened. The motor for feeding labels is still operational so that you can load labels. While printing, you can view the materials in motion through the window in the closed side door.



WARNING! Do not disable the front or side door auto-stop mechanisms. Doing so may cause injury.

Electrical Safety



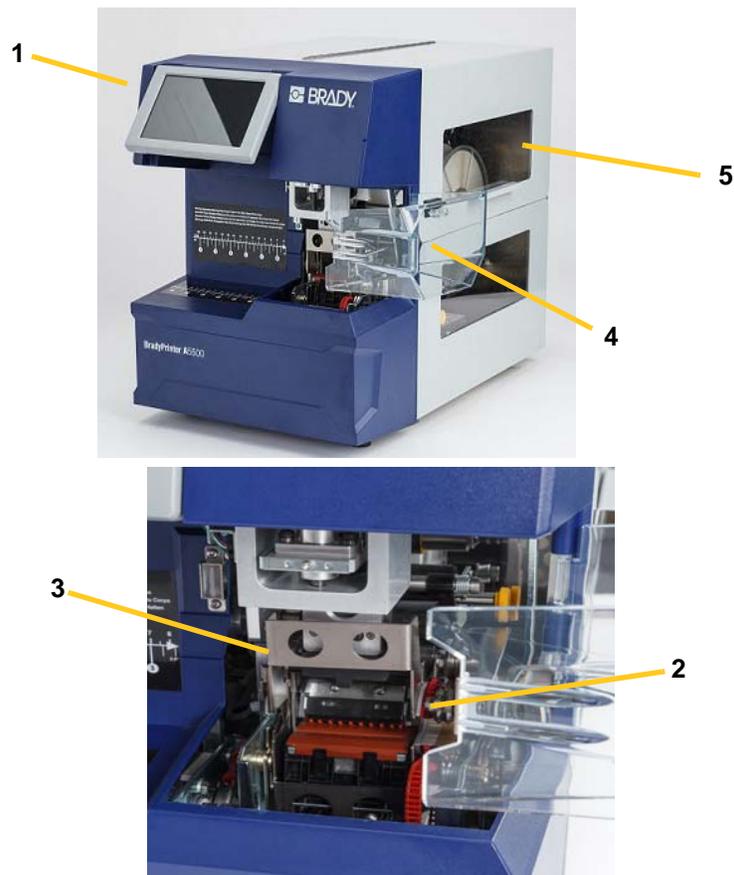
CAUTION! Make sure the power outlet is grounded.



WARNING! Turn off power and unplug unit before performing any service or maintenance on the BradyPrinter A5500 printer.

3 Component Locations

This section provides the locations and descriptions of the components that make up the BradyPrinter A5500 printer.



1. **Touch Screen:** Tap with your finger to operate the menus. See [“Using the Touch Screen” on page 26](#).
2. **Jaws:** Hold the wire in place as the label is applied.
3. **Flagger:** Mechanism that flags a label around the wire.
4. **Front Door:** Clear plastic safety cover—shown in open position—protects the jaws of the unit. The unit is designed to automatically stop all moving parts when the front door is open.
5. **Viewing Window:** Allows you to view the material path while the printer is running.

The following figure shows the external parts located on the back of the BradyPrinter A5500 printer.



1. **Exhaust Fans:** Exhaust fans run continually when the BradyPrinter A5500 printer is powered on to keep operating components cool.
2. **Remote PLC Mode Connector:** Port for operating the machine remotely. This is generally used in third-party systems that combine the BradyPrinter A5500 printer with other devices.
3. **Status Port:** Use for a stack light, which displays the status of the printer: red indicates an error; yellow illuminates when the printer is in use printing or flagging; and green shows the printer is ready for use.



CAUTION! Do not connect line voltage to any pin in this connector. This will seriously damage the printer.

4. **USB Device Port (Type B):** Connect the BradyPrinter A5500 printer to a computer's USB port so that you can send labels directly to the printer.
5. **USB Host Ports (Type A):** Connect a USB drive. The USB drive must be formatted with FAT, FAT32, or exFAT file systems. NTFS is not compatible with the BradyPrinter A5500 printer.
6. **Ethernet Connection:** Allows you to connect the BradyPrinter A5500 printer to a Local Area Network (LAN).

7. **On/Off Switch:** Controls the main power to the unit.
8. **Fuse:** Holds a UL listed 3 Amp, 5 mm by 20 mm SLO-BLO fuse.
9. **Power Inlet:**
 - North America Power Cord: IEC60320 3-conductor cord with a NEMA 15 plug (N. American standard) and connects with a standard outlet supplying 120 VAC, 60 Hz power.
 - UK Power Cord: IEC60320 C13 plug, 3-conductor cord, with a LT-318 plug (UK Standard) and connects with a standard outlet supplying 230 VAC, 50 Hz power.
 - European Power Cord: IEC60320 C13 plug, 3-conductor cord, with a CEE(7) Type 7 plug (European Standard) and connects with a standard outlet supplying 230 VAC, 50 Hz power.Users outside of these countries may be required to supply their own power cord.

4 Installation and Preparation

This section provides information on installing and preparing the BradyPrinter A5500 printer for initial use. Follow these steps before creating and printing labels:

Unpack and Set Up the Printer

Unpack



WARNING! The BradyPrinter A5500 printer weighs 75 lbs.
Get assistance to lift!

Note: Make sure the BradyPrinter A5500 printer box remains in the upright position at all times. Do not lay the box on its side.

1. The BradyPrinter A5500 printer comes in a cardboard box banded to a pallet. Cut the band.
2. Lift the top cover off the base.
3. Lift the BradyPrinter A5500 printer out of the protective foam surrounds and place the unit on a flat, level surface.

Note: Save all packaging materials! These will be needed if you must ship the printer.

4. Remove the following additional items from the box:
 - USB drive containing the following:
 - Windows (printer) Driver
 - BradyPrinter A5500 User's Manual
 - 7/16" wrench
 - Power cord
 - USB cable
 - Booklet with the code to download a single license for the Brady Workstation Product and Wire Identification Suite software

The following items come pre-installed in the BradyPrinter A5500 printer:

- Label Material
- Ribbon

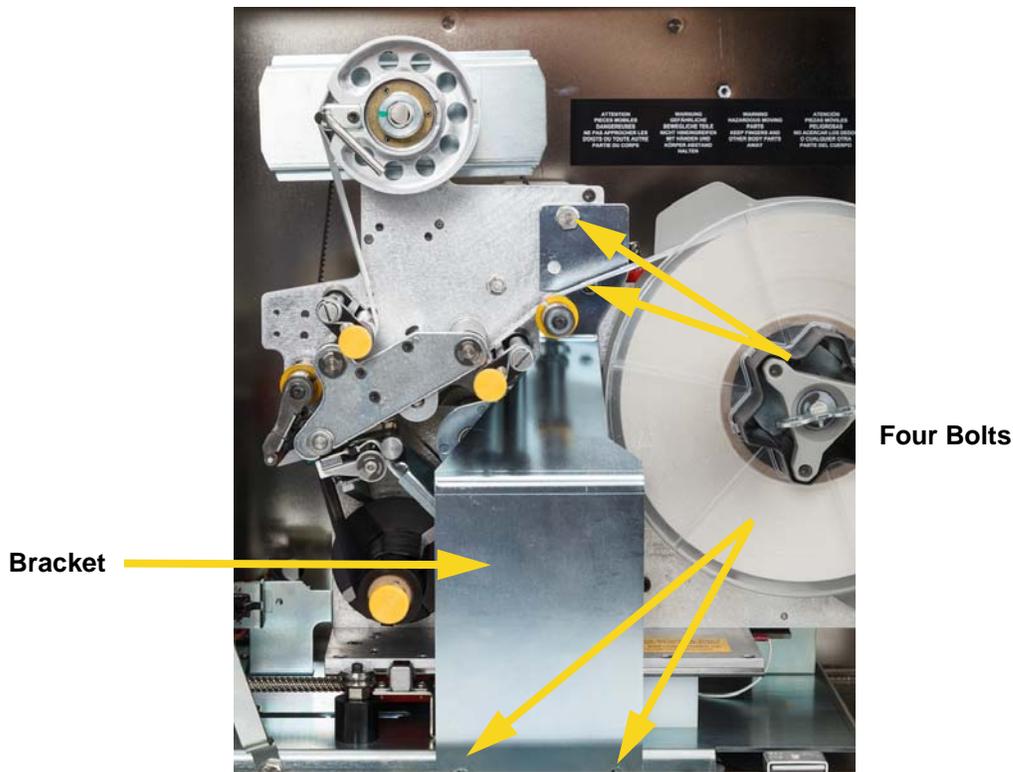
Remove Shipping Materials Inside Housing



CAUTION! Do not power on the BradyPrinter A5500 printer before following these steps.

Note: Save all shipping materials. These will be needed if you must ship the printer.

1. Open the side door to access the interior.
2. Remove the shipping support bracket as follows.
 - a. Use the 7/16" wrench to remove the four bolts and washers attaching the bracket to the frame. If labels block the top bolt, lift the labels to access the bolt.
 - b. Remove the bracket from the machine.



3. Remove the white stabilizer block from between the shuttle plate and unit support plate as follows.
 - You will need to remove the ribbon from the feed spool in order to access the bolt. Grasp the roll and gently pull towards you until it is clear of the spindle. You need not remove the ribbon from its path within the printer.

- Use the 7/16" wrench to remove the bolt and washer attaching the stabilizer block to the shuttle plate.



- Remove the stabilizer block from underneath the shuttle plate.
 - Replace the ribbon onto the feed spool.
4. Close the side door.

Bolt Printer to Work Surface (Optional)

The BradyPrinter A5500 printer comes with threaded bolt holes on the bottom for table top mounting. If the work surface vibrates or the printer will be placed on a moving cart, you may wish to stabilize it. See "[Mounting Dimensions](#)" on page 56.

Power Up the Printer

Connect Unit to Power

1. Obtain a suitable alternate power cord if the one provided with the printer doesn't match your country's standard.
2. Connect the power cord to the back of the BradyPrinter A5500 printer and into an outlet.



CAUTION! Make sure the outlet is grounded.

Power Unit On

If you haven't already done so, power on the BradyPrinter A5500 printer. The touch screen initializes and displays the home screen. For details about the touch screen see ["Using the Touch Screen" on page 26](#).

Printer Settings

Use the touch screen on the printer to configure standard settings, such as the language. For details about the touch screen see ["Using the Touch Screen" on page 26](#). To set additional features not shown below, see ["Functions" on page 28](#).

Language

Set the language for text on the touch screen.

1. With the printer turned on, tap **Settings**.
2. Tap **System Configuration**, then **Language**.
3. Tap the desired language. Touch the screen and drag your finger up or down to scroll all available languages.
4. Return to the home screen.

Units of Measure

Set the unit of measure to inches or millimeters.

1. With the printer turned on, tap **Settings**.
2. Tap **System Configuration**, then **Measurement Units**.
3. Tap either Inches or Millimeters.
4. Return to the home screen.

Date and Time

Set the printer's clock to the current date and time. You do not need to reset the date and time after power is removed from the printer.

1. With the printer turned on, tap **Settings**.
2. Tap **System Configuration**, then **Date and Time**.
The left side of the screen displays the current settings.
3. To change the settings, tap the controls on the right.
 - Use 24-hour format: Tap the switch to change between 24-hour format (green) and 12-hour format (red) with AM and PM.
 - Set date: Tap to display date controls. To change the date, either tap on an element and select a new value, or tap the arrows above or below an element.
 - Set time: Tap to display time controls. To change the time, either tap on an element and select a new value, or tap the arrows above or below an element.
4. Return to the home screen.

Printer Name

The printer name is displayed when a computer searches for the printer on a Wi-Fi connection. If the printer does not have a name the serial number will be displayed instead.

1. With the printer turned on, tap **Settings**.
2. Tap **Connection**, then **Printer Name**.
The printer displays a keyboard. The printer name can only contain the characters A-Z, a-z, 0-9, and a dash (-).
3. Use the keyboard on the touch screen to type a name for the printer.
4. Return to the home screen.

Advance to Next Label

Set the mode for how the printer advances to the next label in a print file.

1. With the printer turned on, tap **Settings**.
2. Tap **System Configuration**, then **Advance to Next Label**.
3. Choose Auto or Manual.
 - In **Auto** mode, the printer automatically advances to the next label after a print and flag cycle. This is the typical mode of operation.
 - In **Manual** mode, you must advance the printer to the next label using the navigation buttons on the Run (Printing) page. See ["Run" on page 28](#).

Wrapper Tension

Turn the tension on or off depending on the type of wire being flagged.

1. With the printer turned on, tap **Settings**.
2. Tap **System Configuration**, then **Wrapper Tension**.
3. Choose ON or OFF.

File Location

Choose whether the printer accesses files from memory or from a USB drive.

1. With the printer turned on, tap **Settings**.
2. Tap **System Configuration**, then **File Location**.
3. Choose Internal Memory or External USB.
 - **Internal Memory:** use when the printer is directly connected to the computer with a USB cable or on a network.
 - **External USB:** choose this option when transferring files from one BradyPrinter A5500 printer to another using a USB drive.
4. Return to the home screen.

Load Software and Connect Printer

Install labeling software on your computer, set up the network connection to the printer, then use the software to design labels and send them to the printer.

Brady Workstation software provides a variety of apps to simplify label creation for specific purposes. It also provides easy-to-use apps for custom label design.

To get Brady Workstation software:

1. Make sure your computer is connected to the Internet.
2. Go to www.workstation.bradyid.com/PWID.
The activation code is shown in the booklet that came with the printer.
3. Follow the instructions on the screen for download and installation.

Installing the Driver

In order to send data from a third party labeling program to the printer you must install the Windows (printer) driver on to the computer containing that program. The driver can be found on the USB drive enclosed with the printer.

If you are unable to find the USB drive that came with the printer the driver can be downloaded from the Brady website: www.bradyid.com/owner/A5500.

1. Insert the USB drive into your computer.
2. Double-click on Windows/Printer Driver folder and double click the Setup.exe to open the installation wizard.
3. Follow the instructions on the computer screen.

Wi-Fi

Connect to the labeling software using a Wi-Fi wireless network.

Search to Connect

Connect to a Wi-Fi network either by searching for and selecting a network, or by manually entering the network settings. Once connected, the printer can communicate with computers on that network. If you have not yet named the printer, you may wish to do so now; see [“Printer Name” on page 13](#)

1. With the printer turned on, tap **Settings**.
2. Tap **Connection**.
3. Tap **Wi-Fi Network** to turn on Wi-Fi.
The printer searches for and displays available Wi-Fi networks.
4. Touch and drag to scroll the list, then tap the network that you want to use.
 - If the network is locked, as indicated by a lock symbol, tap the network and a key pad opens.

5. Enter the password and tap Enter.

Note: If your network uses WEP authentication, a menu displays instead so that you can enter both the password and the WEP index (key).

- If the desired network is not in the list, it may not be discoverable. Tap Other. Choose either Personal Network or Enterprise Network. The system displays settings appropriate to your selection. You may need information from your IT department to complete the settings.
6. Return to the home screen.

Connect Manually

This section describes how to configure the computer and BradyPrinter A5500 printer to communicate via an Ethernet (TCP/IP) connection.

Configure Networking on the Printer

To configure network settings on the printer:

1. With the printer turned on, tap **Settings**.
2. Tap **Connection**.
3. Tap **Advanced Network Settings**.
4. Tap **Wi-Fi**.
5. Set the following options. If you need more information contact your system administrator.
 - **IP Settings:** Tap **IP Settings** and then tap either **DHCP** or **Static**. DHCP addressing is dynamic and the system uses a DNS server to obtain the printer IP address for you. For static addressing, you must supply the printer's IP address. Tap the back button to return to the Network menu.
 - **IP Address:** (For static IP addressing only.) Tap **IP Address** to display a keypad and then type the IP address of the printer. Tap the enter key when finished.
 - **Subnet Mask:** (For static IP addressing only.) Enter a subnet mask if you are using one.
 - **Default Gateway:** (For static IP addressing only.) Enter the default gateway.
 - **DNS Server (Primary):** (For DHCP addressing only.) Tap **DNS Server (Primary)** to display a keypad and then type the IP address of the DNS server. Tap the enter button when finished.
 - **DNS Server (Secondary):** (For DHCP addressing only.) Similarly, enter the IP address of the secondary DNS server.
6. Return to the home screen.

Connect with a USB Cable

To connect to a computer via USB 2.0, plug the provided USB cable into the printer and the computer. Note that Brady Workstation software automatically detects the printer when connected via USB cable.

Load Label Supply

Follow the steps below to load label supply in the BradyPrinter A5500 printer. Use the material path shown as your guide.

The following figure shows the BradyPrinter A5500 printer's material path. The material path is the route a roll of labels takes through the printer. Open the side cover of the BradyPrinter A5500 unit to see the material path.

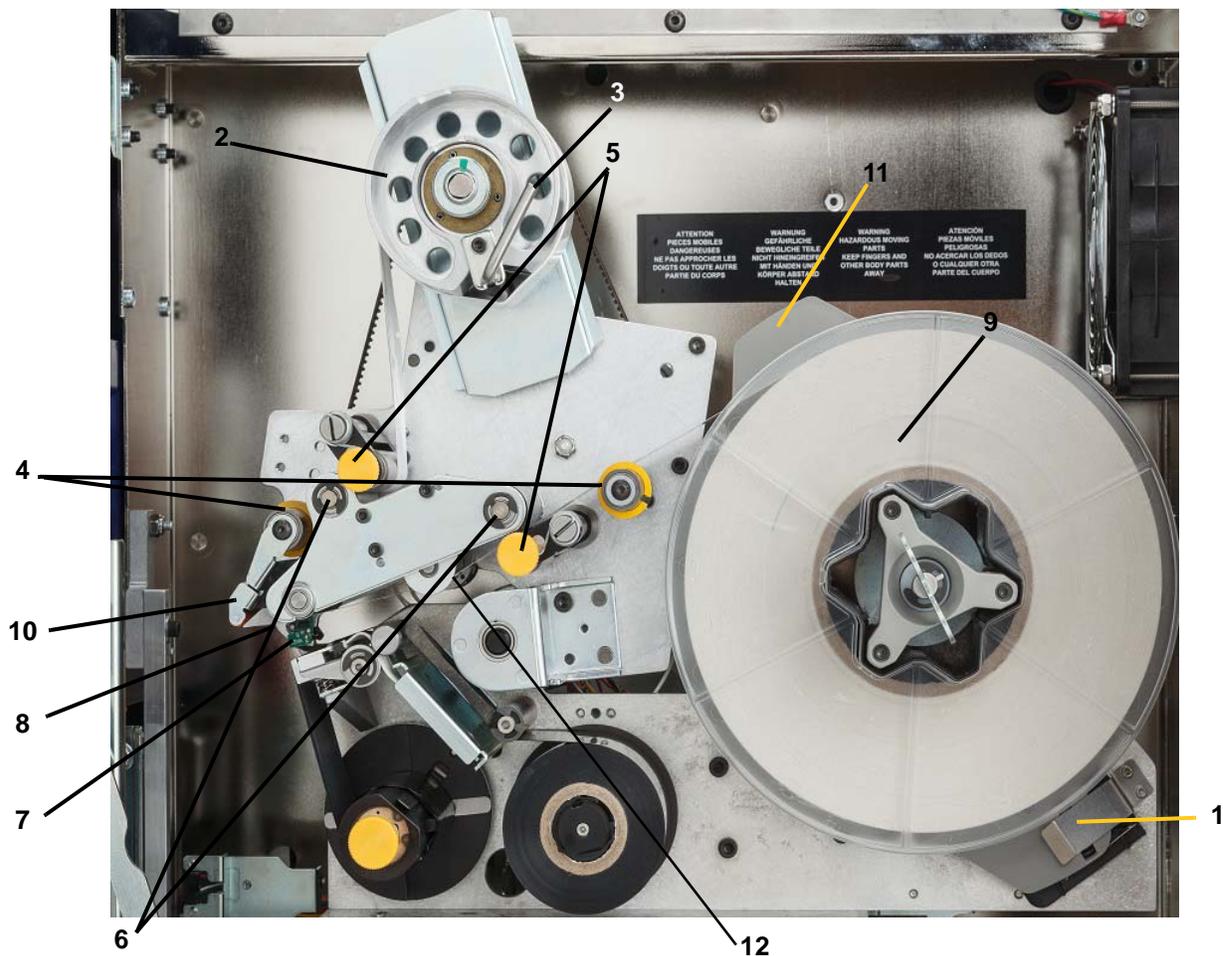


Figure 4-1. Material Path Parts

1	Material Reader	7	Optic Sensor Bar
2	Label Take-Up Spool	8	Peel Plate
3	Label Take-Up Spool Lock Lever	9	Label Roll
4	Guide Rollers	10	Label Deflector
5	Nip Rollers	11	Label Roll Flange
6	Drive Rollers	12	Encoder Roller

1. On the BradyPrinter A5500 home screen, tap **Load Supplies**.
2. Tap **Load Supply**.

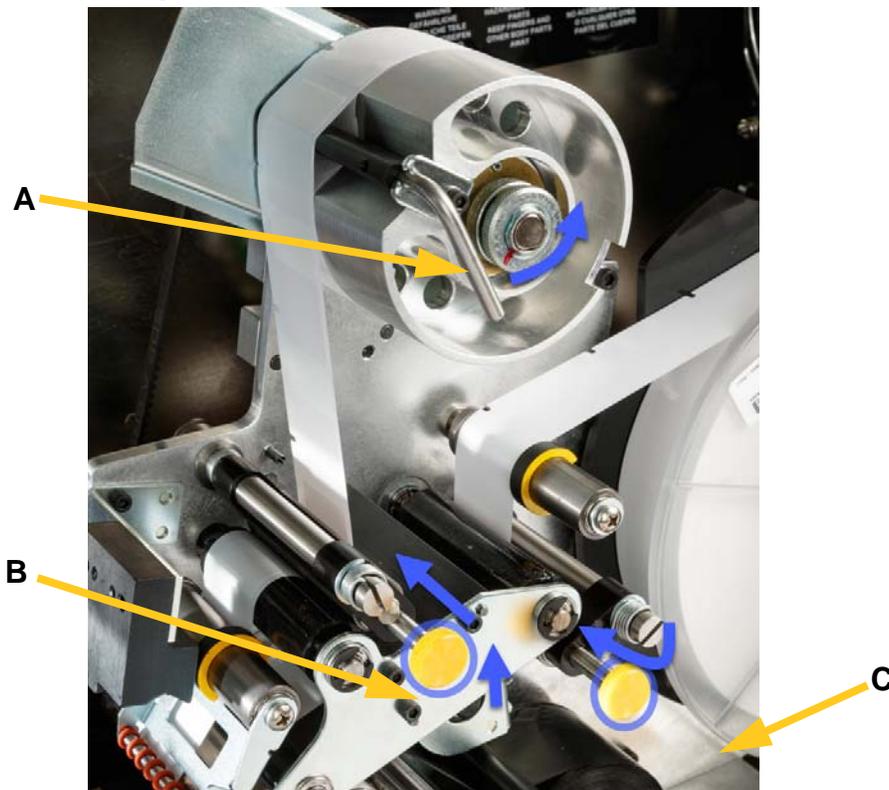
Note: The print/flag assembly automatically slides back for easy access during loading process.

3. Lift the side door on the printer.



WARNING! The label advance motor is active when the side door is open. **KEEP FINGERS AND OTHER BODY PARTS AWAY.**

4. Turn the take-up spool lock lever (A) counter-clockwise to open it.
5. Open the nip rollers.
(Nip rollers are steel with yellow knobs. They add pressure to the drive rollers to keep the label material from slipping.)
6. Open the left roller (B) by swinging it up and then pushing in.
7. Open the right roller (C) by swinging it down and then pushing in.



Remove previously used material:

If material is currently loaded, remove it, making sure first to release the label roll.

- Open the take-up spool lock lever.
- Open the nip rollers.
- Use a scissors to cut the label supply by the take-up spool so that you have enough leader material (about 8 inches) to load the roll later without wasting labels.
- Remove the used liner from unit and discard.
- Remove the remaining label roll from the printer, making sure first to release the label roll.



CAUTION! Failure to release the label roll can damage the smart cell. Rotate the flange behind the label roll clockwise so that the smart cell is clear of the reader clip. Then pull forward to remove the label roll. See Figure 4-2 for the location of the flange and the reader clip.

- Use tape to secure the end of the label roll. Be careful not to let the material spool unwind from the core.
8. Place the new label supply roll on the spool.
 9. Turn flange (A) counter-clockwise to rotate the label roll so the touch memory cell is **securely** positioned in the reader clip (B).

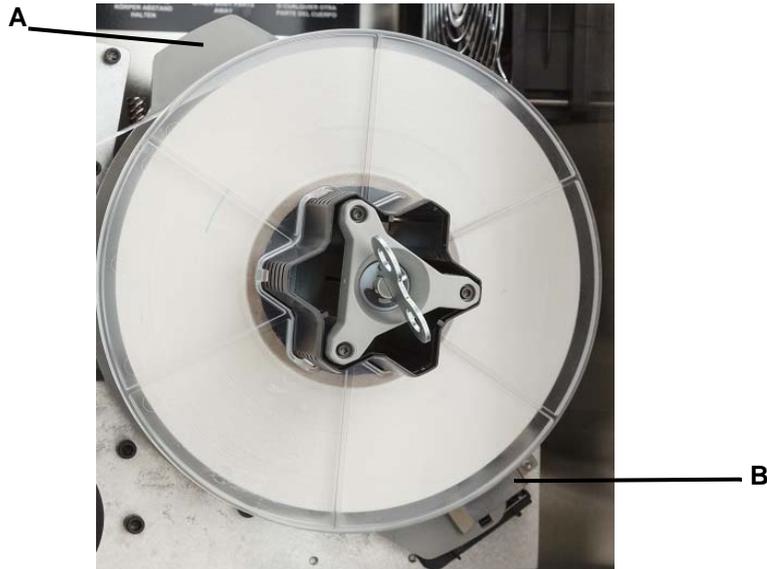
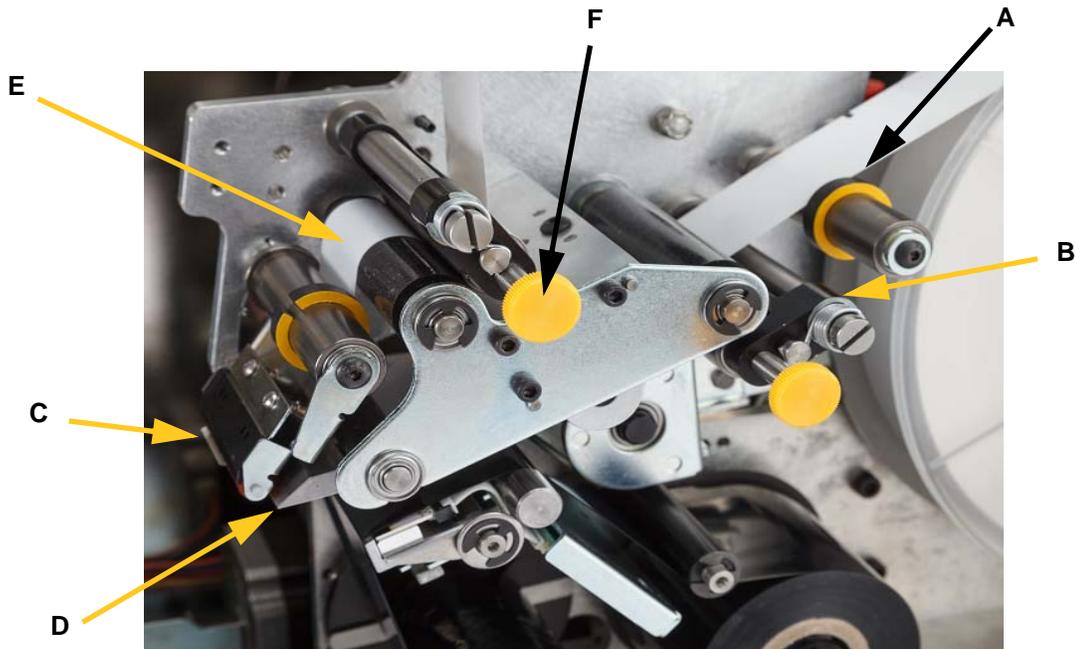
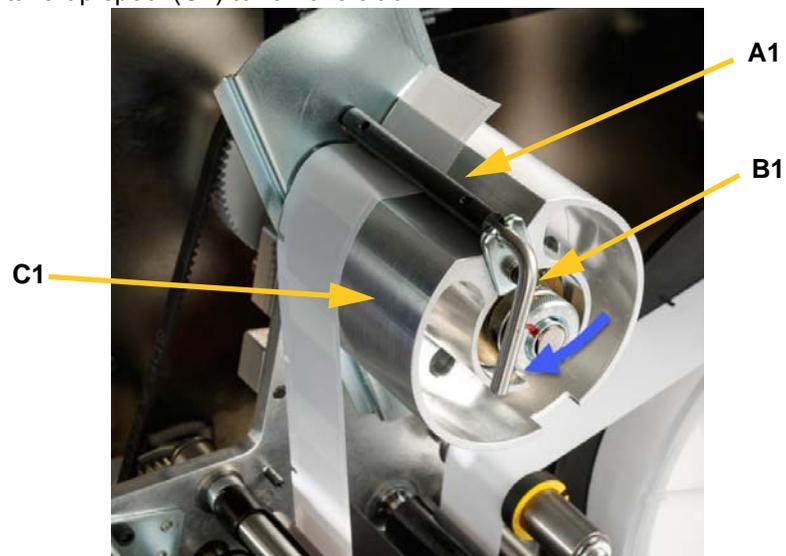


Figure 4-2. Flange and Reader Clip

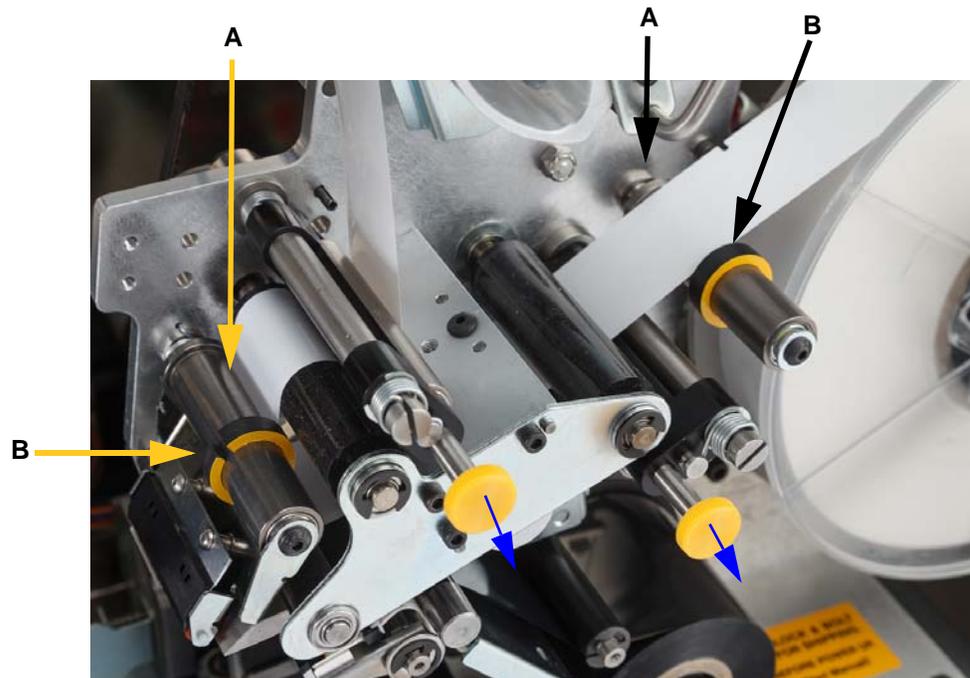
10. Thread labels over the first guide roller (A).
11. Between the first drive roller and first nip roller. (B)
12. Lift the label deflector (C) and thread the material between the peel plate and deflector (D).
13. Continue to thread the label over the second drive roller (E) and under the second nip roller (F).



14. Thread the labels under the take-up bar (A1).
15. Turn the take-up spool lock lever (B1) clockwise to close it.
16. Rotate the take-up spool (C1) to remove slack.



17. Be sure labels are up against the far side of the rollers. **(A)**
18. Position guide rings **(B)** snug to the label liner. Leave minimal gap between the guides and the labels. Make sure the label material is not distorted by overly tight adjustments.



19. Pull out the yellow knobs to engage the nip rollers.

Nip rollers are steel with yellow knobs. They add pressure to the drive rollers to keep the label material from slipping. Turn spool key clockwise to remove slack. Once slack is removed, continue turning the key another half turn to load the spring inside the spool.



Figure 4-3. Tighten Label Spool

Note: Check the position of deflector and return it to the down position if it has been moved. Down is the normal operating position unless problems occur when peeling labels from the roll onto the wire or cable.

20. Test feed a label by tapping **Feed Supply** on the touch screen until a label dispenses.



CAUTION! Be sure to remove the dispensed label. Failure to do so will jam the print mechanism.

21. Close the side door of the printer.

22. On the touch screen, tap **Done** to move the print assembly forward to the home position.

23. Return to the home page.

Load the Printer Ribbon

Follow the steps below to load a ribbon in the BradyPrinter A5500 printer. Use the ribbon path shown below as your guide.

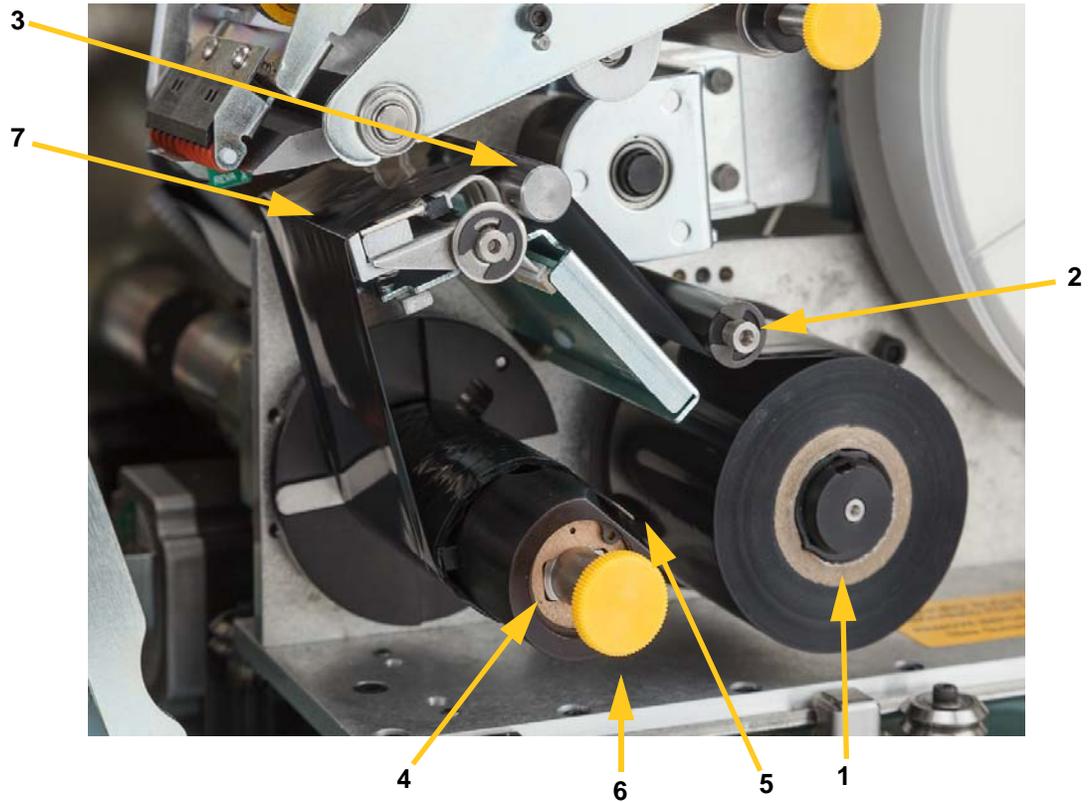


Figure 4-4. Ribbon Path Parts

1	Feed Spool	5	Clip
2	Guide Roller	6	Take-up Spool Knob
3	Guide Bar	7	Print Head
4	Take-up Spool		

1. On the BradyPrinter A5500 home screen, tap **Load Supplies**.
2. Tap **Load Ribbon**.
3. Lift the side door of the printer.



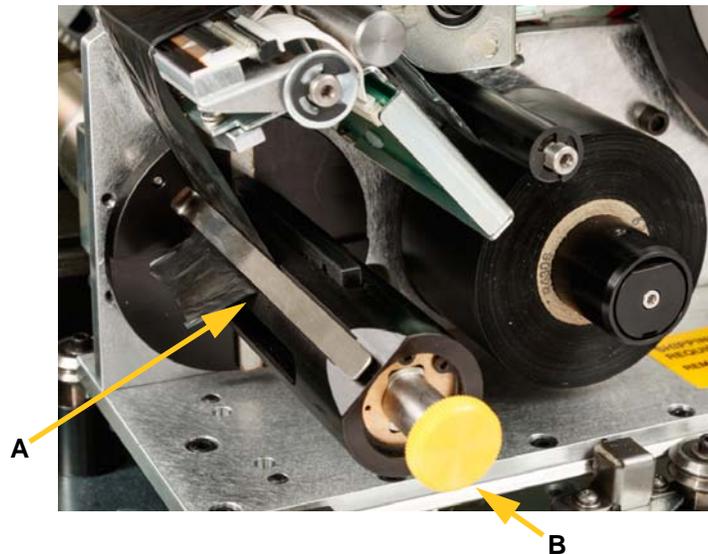
Note: Ribbon threading instructions are also located on the inside of the side door.

Remove the old ribbon

If ribbon is currently loaded, remove it:

- Cut the ribbon between the guide bar and take-up spool.
- Hold the edge of the take-up spool while turning the knob clockwise until it stops.
- Pull the take-up spool knob to remove the used ribbon from the take-up spool and discard.
- Re-engage the take-up spool by pushing it in all the way until the knob auto-rotates back to its original position. **Failure to re-engage the take-up spool will make it difficult to remove the old ribbon next time!**
- Remove remaining ribbon, if any, from the feed spool.
- Use tape to secure the end of the ribbon roll.

4. Orient the flat spot in the ribbon roll to align with the feed spool and slide it on the spool until it contacts the back wall.
5. Thread the ribbon under the guide roller and over the guide bar and printhead. See [Figure 4-4 on page 23](#).
6. Feed ribbon under the clip (A) as shown until approximately 1 inch (25.4 mm) of ribbon is past the clip.



7. Turn the take-up spool knob (B) counter-clockwise until the ribbon is fed around the take-up spool several times to ensure that it won't unravel.

Note: Make sure that the ribbon roll is installed flush to the back flange and routed.

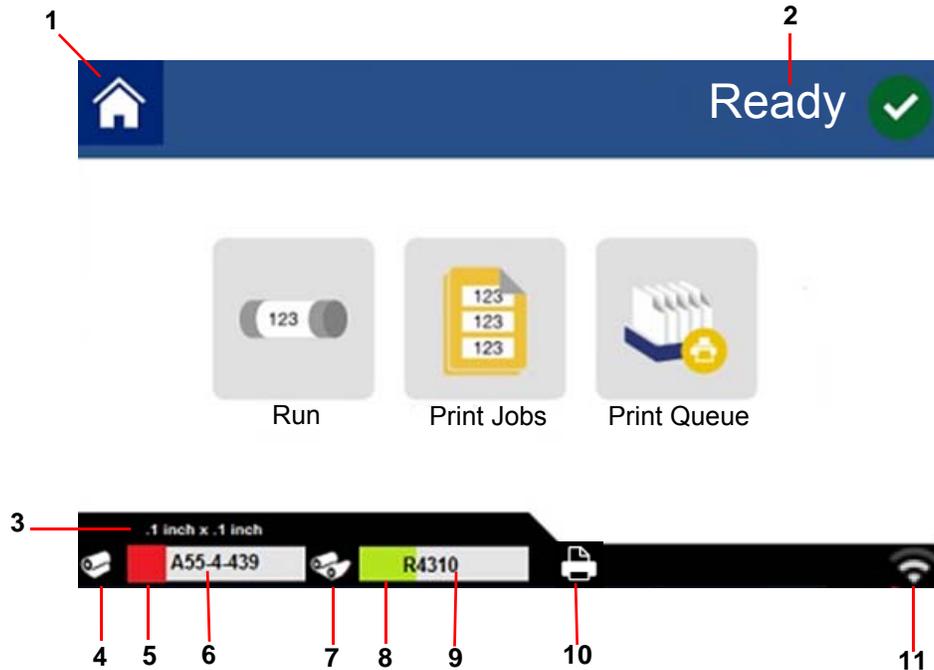
8. Close the side door of the printer.
9. On the touch screen, tap **Done**.
This moves the print assembly forward into the home position.
10. Return to the home screen.

5 General Operation

Using the Touch Screen

The BradyPrinter A5500 printer includes a touch screen that you use to control the unit. Tap the screen with your finger to make a selection from the menus. The screen is hinged so that you can adjust the viewing angle up or down.

Note: Do not use a writing pen or other sharp object which could damage the touch screen.



1	Home	7	Ribbon Status
2	Printer Status	8	Ribbon Remaining
3	Supply Size	9	Ribbon Part Number
4	Supply Status	10	Printer Status
5	Supply Remaining	11	Wi-Fi Status
6	Supply Part Number		

The following sections provide information on each of the buttons on the home screen.

	Tap the home button at any time to return to the home screen.
	While navigating the menus, tap the back button to go back to the previous page.

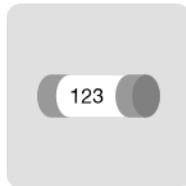
Status Bar

The status bar at the bottom of the home screen provides the following information.

Icon	Meaning
	The printer cannot read the memory cell on the label supply. Label supply may not be installed, may be installed incorrectly, or the memory cell may be corrupted.
	This icon is only visible when the Run page is displayed and a print job is loaded.
	Printing is paused. To resume printing, return to the home screen and tap Run .
 blinking	The printer is receiving data from the software.
	The printer cannot read the memory cell on the ribbon. Ribbon may not be installed, may be installed incorrectly, or the memory cell may be corrupted.
	The printer is not connected to Wi-Fi.

Functions

Run



Tap **Run** to begin printing and flagging the first job in the print queue. Displayed is the first label in the first job as well as controls for moving between labels, the ability to change the wire diameter, a mode indicator, and a counter of labels printed and flagged.



CAUTION! If the wrong label supply for the file is installed, a warning message is displayed. Use caution when overriding this message. The label size loaded in the printer may not be appropriate for the print file and will generate scrap.

The following table describes the controls and information when running a job.

Note: The navigation buttons (arrows) are available when the print file contains multiple labels.

Button	Description
	Goes to the next label.
	Goes to the previous label.
	Goes to the last label in the file.
	Goes to the first label in the file.
Adjust Wire Diameter	Select the diameter of the wire being flagged or leave it on auto for the printer to automatically detect the wire diameter.
Next	Shows whether the printer advances to the next label automatically or manually.
Label	Displays the current position in the label file as well as the total number of labels. Tap the current label number (within the rectangle) to jump to a particular label. A keypad opens. Tap the label number on the keypad and then tap the enter button.
Reset Count	The number to the left indicates the number of flag labels applied. Tapping Reset Count resets the number to zero.
Close Job	If the printer is set to repeat printing the same file, click Close Job to stop printing this file and go to the next file in the print queue.
	Enter button.

Print Jobs



Use Print Jobs to manage print files in the printer's memory or on a USB drive, depending on whether internal memory or external USB is set in File Location.

The Internal Memory box at the bottom of the screen indicates how much memory is available on the printer. The first number represents the amount of memory available and the second number is the total memory capacity of the printer. The green bar gives a visual indication of the percent full. The bar turns red when memory is low.

Finding a Print Job

If the list of jobs is long, you can find the job by sorting or searching. Also, the view can be changed to display a list or thumbnail image of the first label in the file.

To scroll through a list, drag your finger up or down on the screen through the list of files.

	The View button shows thumbnail images of the first label in each file. The filename and number of labels in the file is shown below the thumbnail.
	The Sort By button gives you the options to sort the list alphabetically, by date, by number of labels, or by label supply type.
	The Search button will display a keyboard to type in all or part of a file name on which to search. Search is not case sensitive.
	The Enter button is used after typing in the file name for which you are searching.
	The Clear button is used to clear the search and display all files again.

Adding a Job to the Queue

You must add jobs to the queue in order to run them, that is, to print labels and flag a wire or cable.

To add a job to the queue:

1. Find the job you wish to add to the queue and tap the check box for that print job.
2. Tap the **Add** button.

If the Add button is not visible when you have multiple jobs selected, then you need to enable the print queue. For help, see ["Print Queue" on page 30](#).

The printer runs the print job and the touch screen displays the Printing page.

Note: With Auto Queue enabled you do not have to manually add jobs to the queue.

Deleting a Job

Deleting a job removes the label file from the printer's memory or from the USB drive depending on the setting in File Location.

To delete a print job:

1. Find the job you wish to delete and tap the check box for that print job.

Note: You cannot delete jobs that are in the print queue.

2. Tap the **Delete** button.

Print Queue



The **Print Queue** is used to change the order of jobs in the queue or to cancel print jobs.

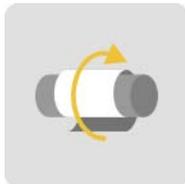
IMPORTANT! Enable Print Queue in [Settings](#) to be able to select multiple print jobs.

A print job must be in the queue in order to print it. Jobs print in the order they are listed in the queue.

Tap a print job and then tap one of the following buttons.

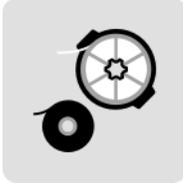
Button	Description
	Cancel One removes the selected job from the queue.
	Cancel All removes all jobs from the queue.
	Move Up moves the selected print job up one position in the queue.
	Move Down moves the selected print job down one position in the queue.

Apply Only



Tap **Apply Only** to flag a wire or cable with pre-printed label media. Leave the wire diameter on the auto setting or change to a specific diameter.

Load Supplies



Tap **Load Supplies** to install label supply or ribbon, or to clear a jam.

The following table describes the functions on the Load Supplies menu.

Button	Description
Load Supply	Shuttles the print and flag mechanism back, tilts the print head open and displays instructions for loading media. For detailed instructions on how to install label supply, see “Load Label Supply” on page 17 . IMPORTANT: After feeding label supply, be sure to remove the dispensed label. Failure to do so will jam the print mechanism.
Load Ribbon	Shuttles the print and flag mechanism back, tilts the print head open and displays instructions for loading ribbon. For detailed instructions on how to install the ribbon, see “Load the Printer Ribbon” on page 23 .
Clear Jam	Shuttles the print and flag mechanism back, tilts the print head open and displays instructions for clearing the jam. IMPORTANT: After feeding media, be sure to remove the dispensed label. Failure to do so may jam the print mechanism again.

Settings



Tap **Settings** to see printer information and to change operational settings for the printer.

The following sections describe each item in the Settings menu. As you navigate through the menus, remember to use the back button to return to the previous menu.

Connection

Use to set the printer name (see [“Printer Name” on page 13](#)) and configure network communication with the printer (see [“Load Software and Connect Printer” on page 15](#)).

System Configuration

The list below gives you an overview of the features and functions. To set or change any of the following options refer to “Printer Settings” on page 12.

- **Language:** Set the language for text on the touch screen.
- **Virtual Keyboard:** Set the language for the keyboard on the touch screen.
- **Measurement Units:** Set the unit of measure to inches or millimeters.
- **Date and Time:** Set the printer’s clock to the current date and time.
- **Advance to Next Label:** Set how the printer advances to the next label in a print file.
- **Wrapper Tension:** Turn off the tension when using delicate wires.
- **File Location:** Choose whether the printer accesses files from memory or a USB drive.

Print Adjustments

These settings will be used on all print jobs. If you want to change them just for one job, be sure to reset to the default settings when you are done.

- **Print Energy:** Use the slider to adjust for darker or lighter printing. Print a label to test the setting.
- **Horizontal Offset:** Use the slider to shift print to the left or right on the labels. The number shown on the slider indicates how much the beginning print position will shift relative to the factory setting; it does *not* represent the distance from the left edge of the label.
- **Vertical Offset:** Use the slider to shift print up or down on the labels. The number shown on the slider indicates how much the beginning print position will shift relative to the factory setting; it does *not* represent the distance from the top edge of the label.
- **Feed to Wire:** Use the slider to adjust how much the printer peels the label before adhering on to the wire. The zero (middle) position on the slider represents the factory setting. Adjustments are relative to the factory setting. This is useful for braided wires because there is less contact area to which the labels can adhere. Setting this too high can cause labels to jam.
- **Wire Diameter:** Use the slider to set the diameter of the wire being flagged. Leaving it on Auto sets it to the lowest wire diameter for the label size installed.
- **Cycles:** Displays the number of times the printer has printed and flagged, or just flagged, a label on a wire or cable. The cycle count cannot be edited or reset. This value is used to determine when to perform maintenance on the printer.

To restore the factory value for any of these settings, except cycles, tap **Reset Default**.

Print Queue

Settings for the print queue are either ON (green) or OFF (red). Tap the switch to change the setting.



Figure 5-1. Switch Positions

Set the following options. You may need to swipe up to see all of them.

- **Enable Print Queue:** If this setting is off, only one job at a time can be added to the print queue.
- **Remove Print Job from Queue when Closed:** Removes the current print job from the queue when it's closed. This will not delete the print job from the printer.
- **Delete Print Job when Closed:** Delete the current print job when it is closed. Job files are closed either when you tap the Close Job button on the Run page, or if the job is set to automatically close when completed. Jobs are not deleted when you cancel them from the print queue.
- **Prompt for Delete Confirmation:** This is only visible when the feature Delete Print Job when Closed is turned on. Turn this on to see a confirmation message before the printer automatically deletes a print job when it closes.
- **Load Last Job:** If this setting is on, the last job that was running at the time the printer was turned off remains in the print queue so that you can continue printing.
- **Resume Print Job at Last Label Number:** When opening a print job that contains multiple labels, the printer can start at label one, or resume where you left off. Turn this setting on to resume where you left off the last time the job was closed or the printer was turned off while running the job.
- **Auto Queue Job:** Turn this on to automatically add jobs to the print queue when they are sent to the printer. If this is off, then you have to use the Print Jobs button on the home screen to add jobs to the queue.
- **Close Print Job When Completed:** Turn this on to automatically advance to the next print job in the queue after printing the last label in the file.

About

Displays version numbers and the amount of memory available.

Maintenance

Use this when you need to replace the flagger block assembly (shown as “Tarp” on the printer). For more information on how to replace, see [“Replace Flagger Block Assembly” on page 49](#).

Import Files

Print Jobs allows for labels created on a computer to be imported to the printer using a USB drive. For detailed steps on using this feature, see [“Import Print Jobs” on page 37](#).

Y & B values are included in a database of label and ribbon part information that enables the printer to work optimally with various supplies. Update Y & B values periodically to make sure the printer has data for any new label supplies. Also, update if you have ordered a custom label supply from Brady

and it came with new Y & B values. You do not need to know your current database version. The printer displays a confirmation message showing the version numbers during the import process.

To update Y & B values:

1. On a computer, go to the technical support website for your region. See [“Technical Support and Registration”](#) on page iv.
2. Find firmware updates and the most recent BradyPrinter A5500 database (Y and B) update.
3. Download the database update.
4. Save the downloaded file to a USB flash drive.
5. Connect the USB flash drive to the USB host port on the printer.
6. On the touch screen, tap Import Files.
7. Tap Y & B Files. Follow the instructions on the screen to complete the import.
The new values take effect as soon as the import completes.

Creating, Printing, and Applying Flagged Labels

When you print labels to the BradyPrinter A5500 printer from your labeling software, the printer does not immediately print the labels. Instead, the labels are sent to the printer's internal memory.

Follow these tips to achieve a high quality flag label:

- Kinked or curved wire may cause may cause skewing, end mis-match or bubbling.
- Hold the wires tight and straight during flagging.
- Use the correct size label for the wire being flagged.
- Do not use wire jackets with greasy coatings or the flag will not adhere properly.
- Inspect the peel plate area—especially below—to ensure there are no stuck labels.
- Clean rollers to avoid adhesive build-up. See [“Cleaning” on page 39](#) for cleaning and maintenance recommendations.

On your computer:

1. Design labels on your computer.
 If using Brady Workstation the software automatically detects the ribbon and labels installed in the printer.
2. Send labels to the BradyPrinter A5500 printer with the **Print** command.

On the BradyPrinter A5500 printer:

1. On the home screen, tap **Print Jobs**.
2. Tap the **check box** for a job to select it and then tap **Add**.
 This places the job into the print queue and displays the Printing (Run) screen.
3. Physically insert a cable/wire into the printer jaws to print and apply a flag label.
 The display advances automatically to the next label and the counter increments.



WARNING! The flagger mechanism contains HAZARDOUS MOVING PARTS, KEEP FINGERS AND OTHER BODY PARTS AWAY!

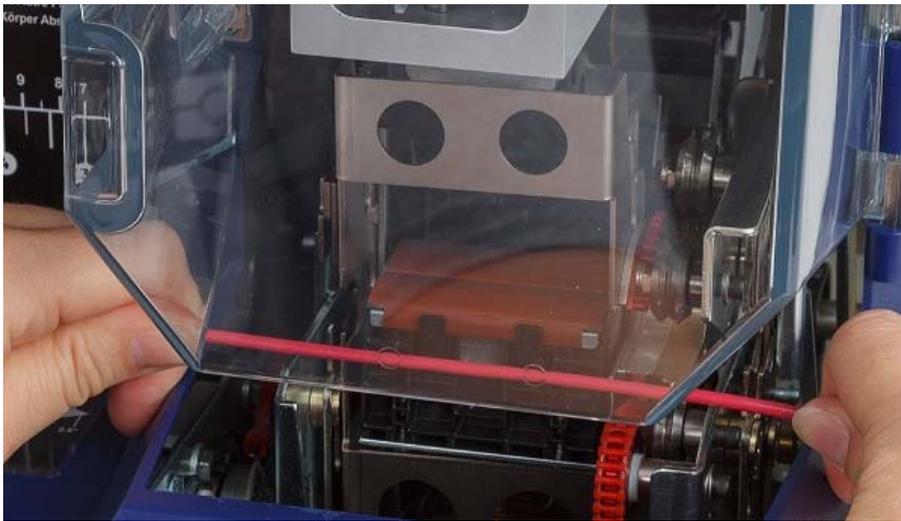


Figure 5-2. Inserting a Wire for Flagging

IMPORTANT! Be sure to hold the wire straight and tight during the flagging process. Do not let wire rotate while flagging. Large diameter wires might need to be manually straightened before inserting into the jaws to ensure good flag quality.



CAUTION! The maximum wire diameter that can be used in the BradyPrinter A5500 printer, INCLUDING the wire's outer jacket, is 0.600". Exceeding this diameter will jam and potentially damage the printer. If a wire diameter less than 0.060" (including wire jacket) is used, the flag label will not adhere successfully.

Transfer Print Jobs from one BradyPrinter A5500 to Another

If you have one BradyPrinter A5500 printer connected to a computer, and another that does not have access to a computer, use a USB drive to transfer print jobs from the connected printer to the other.

To transfer a print job between BradyPrinter A5500 printers:

1. On the connected (source) printer, insert a USB drive into the USB host port.
2. Set the (source) printer to use the USB port rather than internal memory. See [“File Location” on page 14](#) for help.
3. Return to the home screen.
4. From the labeling software send the label file to the printer.
 The file is placed on the USB drive rather than in the printer's memory.
5. Remove the USB drive.
6. Insert the USB drive into the printer to which you want to transfer the job.
7. Set the (target) printer to use the USB port rather than internal memory.
8. Return to the home screen.
9. Tap **Print Jobs** and print the job as usual.

Import Print Jobs

To create labels on a computer and use a USB drive to import them to the printer, follow these steps.

1. Create the label(s).
2. Save the.prn file to a USB drive.
3. Insert the USB drive into the USB host port on the back of the printer.
4. On the home screen, tap Import Files and choose the job(s) to import.
5. Either return to the home screen or wait for the on-screen message.

Running a File Using a Barcode Scanner

To provide operators a way of printing and flagging without having to select the correct label file, the name of the label file can be coded into a barcode and given to the operators to scan.

Set Up the Scanner

Connect a USB scanner to the BradyPrinter A5500 printer. We recommend the Brady Code Reader scanner configured for USB.

Set up the scanner for at least a 30ms inter-character delay. This will ensure that the printer receives all characters transmitted by the barcode scanner. The following barcodes will set up the Code Reader scanner to use a 40ms inter-character delay:

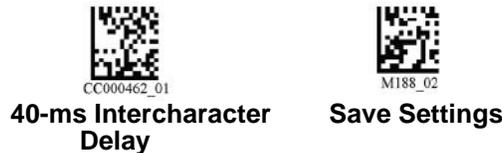


Figure 5-3. Barcodes for Setting Up the Code Reader Scanner

Set Up the Label Files and Barcodes

Make sure that the label files to print are all downloaded to the printer, either in printer memory or on USB flash drive. Create and provide barcodes to operators.

To put the label files in printer memory:

1. Make sure the printer is set to use internal memory. See [“File Location” on page 14](#) for help.
2. Use your labeling software to create and send label files to the printer.

To create the barcodes:

1. Create a barcode image containing the name of the label file followed by a carriage return (the carriage return can either be part of the barcode or added as a suffix by the scanner). Use any barcode symbology that:
 - is supported by your barcode scanner.
 - can accept the characters in the filename.
2. Create a barcode for each label file.
3. Provide the correct barcode to operators. One way to do this is to set up your system to include the appropriate barcode on work orders.

Print from a Barcode

To print labels and flag:

1. On the printer's touch screen, tap either **Run** or **Print Jobs**.
2. Scan the print job barcode. If everything is set up correctly, it will open the print job specified by the barcode.
3. Insert a wire or cable into the printer jaws to print and flag as you normally would. (For more information see ["Run" on page 28.](#))

6 Maintenance

The BradyPrinter A5500 printer requires periodic maintenance to ensure trouble-free operation. The system uses the cycle count to determine when maintenance is required. A maintenance reminder message is displayed when the cycle interval is reached.

Cleaning

Perform maintenance when prompted by the printer, unless otherwise specified in the instructions in this chapter. Keep the printer running at optimal performance with routine cleaning and maintenance. To find the cycle count go to *Settings > Print Adjustments > Cycles*. Follow these instructions to clean the flagger surface, printhead, rollers, and sensors.

Before You Begin

Prior to performing any cleaning or maintenance on the BradyPrinter A5500 printer, you must perform the following steps:

1. On the touch screen, tap **Load Supplies** and then tap **Load Supply**.
This shuttles the print mechanism back.
2. Power off and unplug the printer.



WARNING! You must power off and unplug the BradyPrinter A5500 printer prior to performing any cleaning or maintenance!

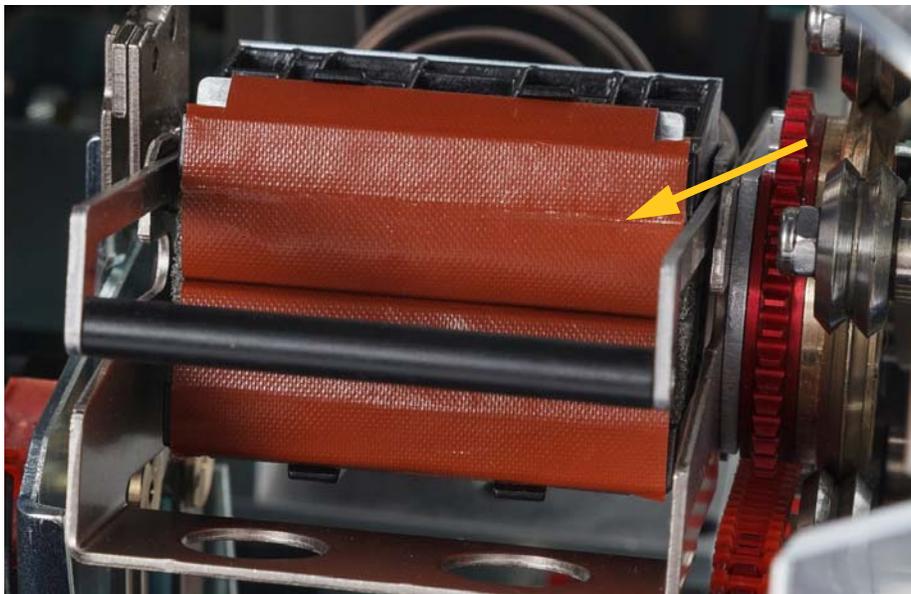
3. Open the side door on the printer.
4. Remove label supply, making sure to release the label roll to avoid damaging the smart cell.
For details see [“Remove previously used material:” on page 19](#).
5. Close the side door.

Note: Remember to reload label material before attempting to print/flag labels.

Cleaning the Flagger Surface

To clean the flagger surface:

1. On the touch screen, tap **Load Supplies** and then tap **Clear Jam**.
This shuttles the print mechanism back.
2. Power off and unplug the printer.
3. Open the front (clear) door on the printer.
4. Pull the flagger forward, toward you, to expose the surface.
5. Dip a cotton swab in the Isopropyl alcohol and use to clean the flagger surface, making sure the flagger is free of dust, debris, and label adhesive built-up.



CAUTION! Failure to remove adhesive build-up will cause labels to jam on the flagger surface.

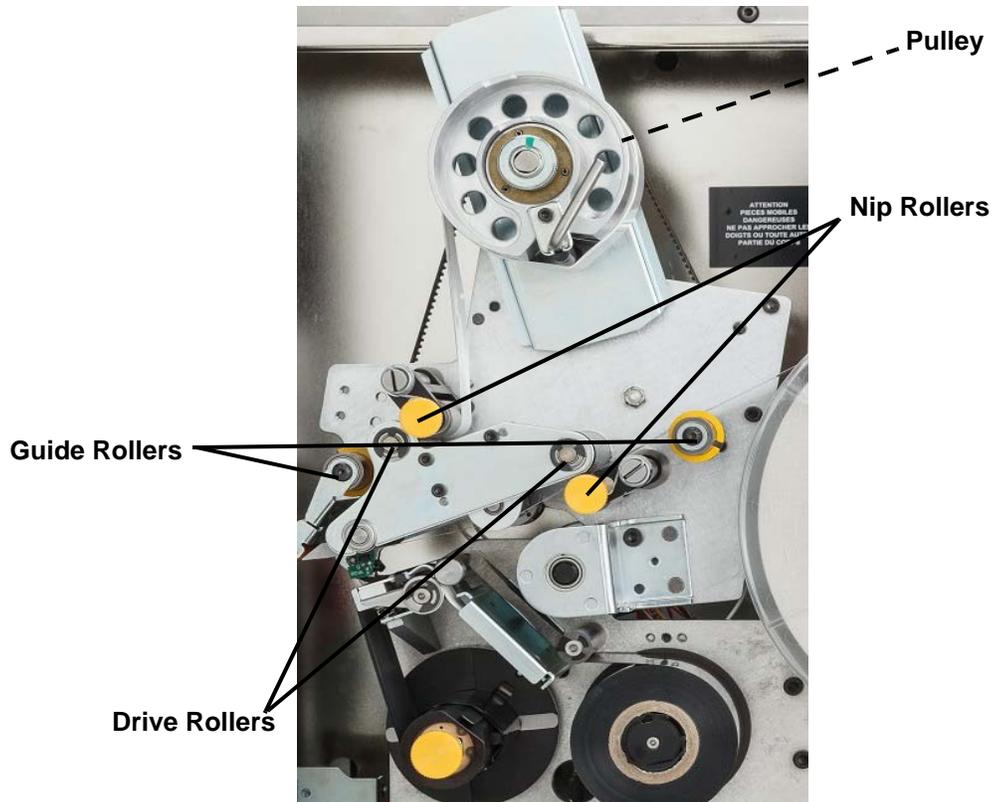
6. Close the front door.

Cleaning the Rollers

Nip rollers are steel with yellow knobs. They add pressure to the drive rollers to keep the label material from slipping.

Guide rollers are stationary and have a yellow guide ring. They guide the label material through the printer and help keep the label material taut.

Drive rollers are made of a tacky black rubber. They move the label material through the printer.



To clean the rollers:

1. Follow the steps in [“Before You Begin” on page 39](#).
2. Open the side door on the printer.
3. Dip a cotton swab in the Isopropyl alcohol.
4. Using the moistened swab, clean the rollers making sure each roller is free of dust, debris and label adhesive.

Note: Drive rollers can be advanced manually for cleaning by turning the large pulley behind the label rewind hub.

Note: Use as many swabs as necessary so that you are always using a fairly clean swab.

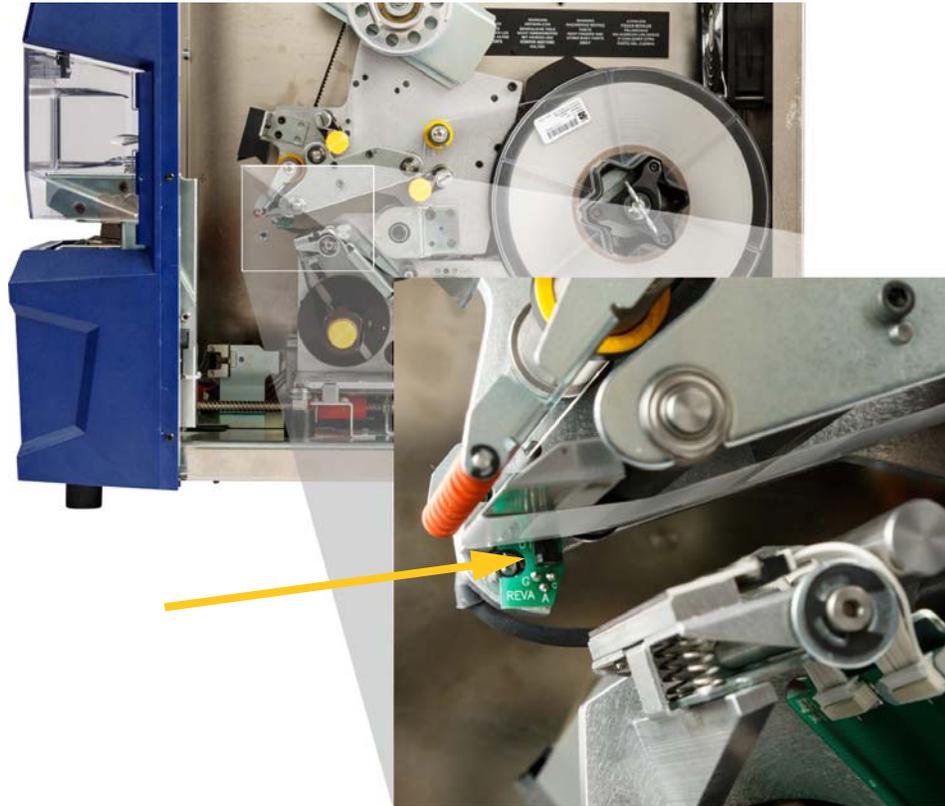
5. Close the side door.

Cleaning the Sensors

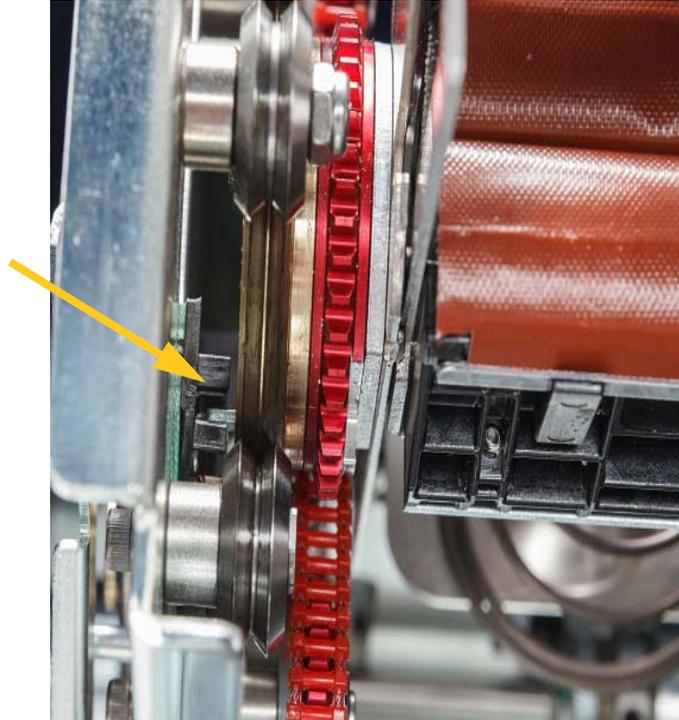
The flagger contains six sensors that will require occasional cleaning. It is recommended that you clean the sensors every 6 months to a year.

To clean the sensors:

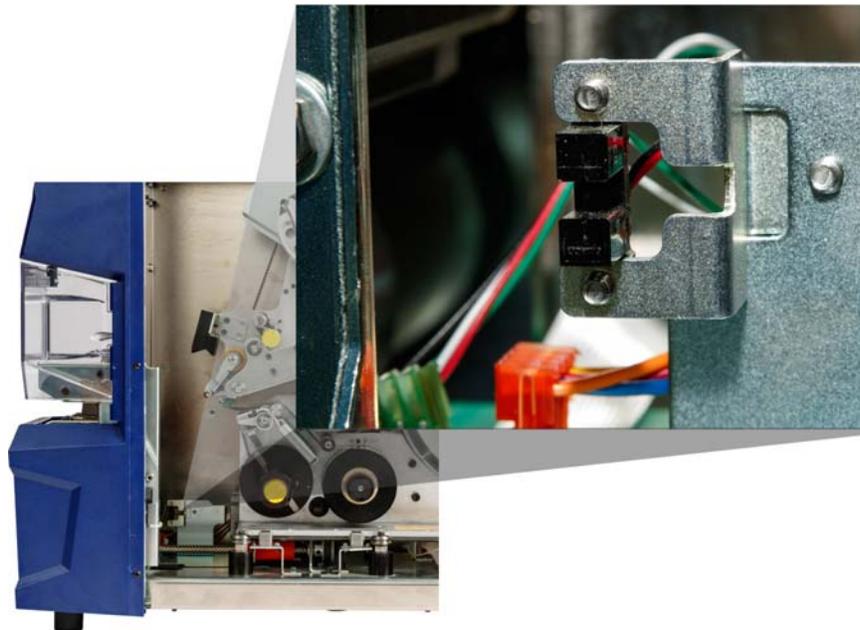
1. Follow the steps in [“Before You Begin” on page 39](#).
2. Open the front and side doors of the printer.
3. Locate the **notch sensor** using the graphic below as your guide.
4. Clean the label notch sensor with a clean swab dipped in Isopropyl alcohol.



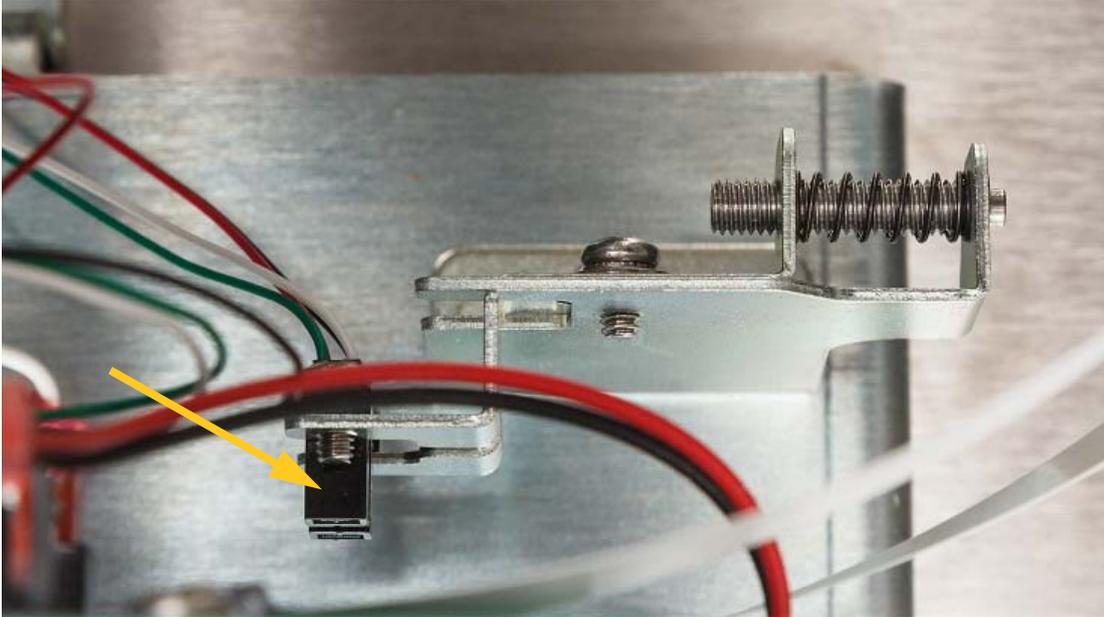
5. Continue to clean the other sensors as needed.
 - The **flagger sensor** is located inside the front door to the right of the flagger. You will need to rotate the flagger so that its opening is near the sensor.



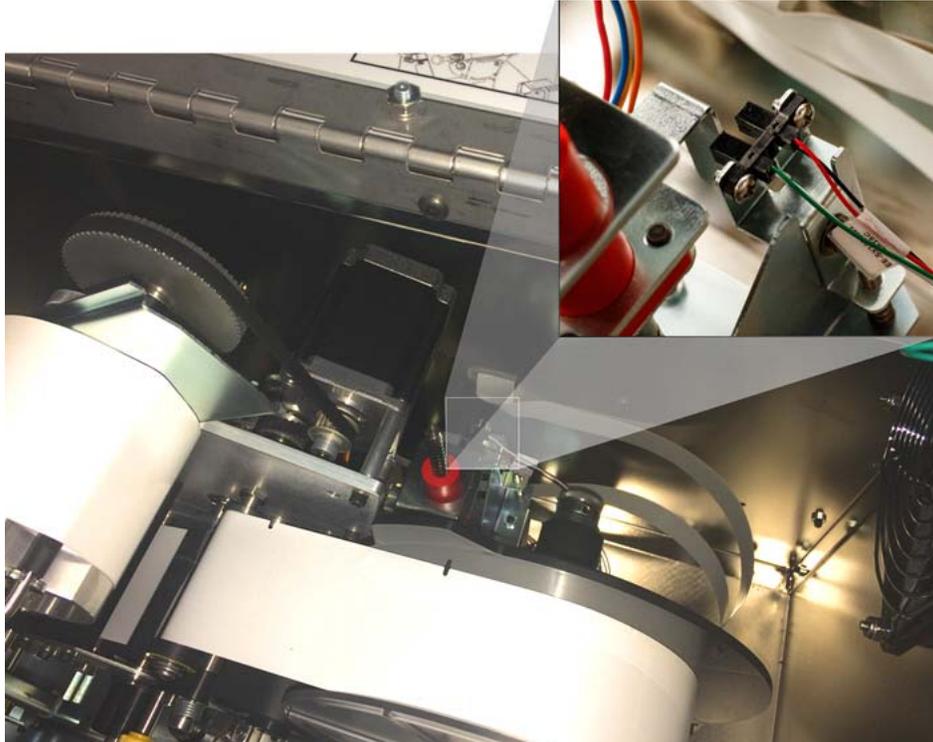
- The **shuttle sensor** is located in front of the printer mechanism.



- The **shuttle limit sensor** is located on the back of the printer mechanism. Get to it from the right side



- The **tilt sensor** is located behind the printer mechanism on the upper right-hand side.



- The **ribbon out sensor** is located behind the ribbon path. The ribbon sensor should rarely, if ever, require cleaning.

6. Close the unit doors.

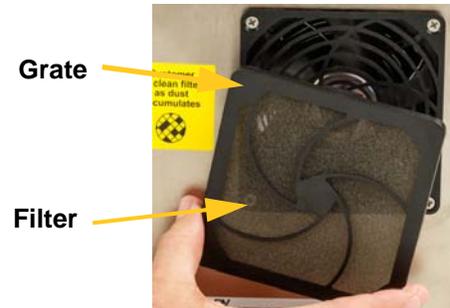
Cleaning the Fan Filter



CAUTION! You must clean the fan filter of accumulated dust.

To clean the fan filter:

1. Remove (pull off) the grate from the fan located on the back of the BradyPrinter A5500 printer.
2. Remove the filter from the grate.
3. Clean the filter by using either of these methods:
 - Blow clean air through it.
 - Wash it with a mild detergent and allow it to dry.
4. Replace the clean filter.
5. Snap the grate back into place over the fan.



The fan filter is a replacement part that can be ordered.

Lubrication

Some BradyPrinter A5500 printer parts will need occasional lubrication in order to keep the unit running smoothly. It is recommended that you check the following items for proper lubrication every 6 months to a year.



CAUTION! Do not over-lubricate any of the parts. Make sure to wipe off any excess oil or grease. Over-lubrication or lubricant in the wrong place can result in printer malfunction.

Note: These procedures require you to remove the label material and/or ribbon prior to performing the maintenance. Remember to reload material before trying to print/flag labels.

Oiling the Slide Track

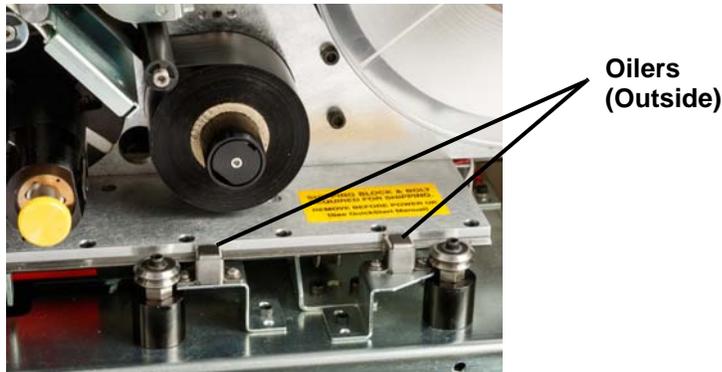
The slide track carries the print mechanism back and forth. Although it comes pre-oiled, you should inspect it and re-oil as needed to avoid damaging the slide track.

1. On the touch screen, tap **Load Supplies** and then tap **Load Supply**. This shuttles the print mechanism back.
2. Power off and unplug the printer.



WARNING! Power off and unplug the BradyPrinter A5500 printer prior to performing any cleaning or maintenance!

3. Open the side door on the printer.
4. Remove the ribbon.
5. Inspect the two oilers (shown below) on the outside of the slide track.



6. If dry, add a few drops of light machine oil.
- Note:** There are **four** oilers. Two are on the outside of the slide track and two are located opposite these on the inside of the slide track.
7. Inspect the two oilers on the inside of the slide track:
 - Manually shuttle the slide track back until the access hole (on the bottom of the track) is aligned with the front inside oiler.
 - Manually shuttle the slide track forward until the back inside oiler is exposed.
 8. If dry, add a few drops of light machine oil to each oiler.
 9. Close the side door.

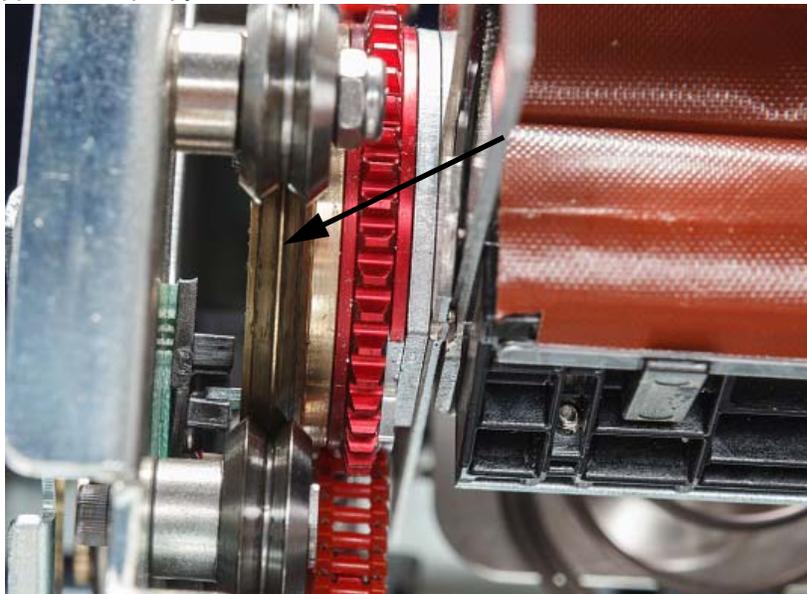
Clean and Grease the Flagger Hub

1. On the touch screen, tap **Load Supplies** and then tap **Load Supply**.
This shuttles the print mechanism back.
2. Power off and unplug the printer.



WARNING! You must power off and unplug the BradyPrinter A5500 printer prior to performing any cleaning or maintenance!

3. Open the front (clear) door on the printer.
4. Clean the two surfaces of the “V” on the flagger hub with a soft, lint-free cloth or a clean swab dipped in Isopropyl alcohol.



5. Apply high pressure grease to a soft, lint-free cloth or a clean swab.
6. Using the greased cloth or swab, apply a very thin layer of grease to the flagger hub as you rotate it. Make sure not to get any grease in the opening of the hub.



CAUTION! If too much lubricant is used, the printer may not apply labels properly.

7. Close the front door.

Replace Flagger Block Assembly

The Flagger Block Assembly is a replacement part that you can order.

1. On the touch screen, tap **Settings** and select **Maintenance**.
2. Tap **Replace Tarp**.
3. Power off and unplug the printer.



WARNING! You must power off and unplug the BradyPrinter A5500 printer prior to performing any cleaning or maintenance!

4. Open the front (clear) cover on the printer.
5. Open the side cover.
6. On the back of the flagger assembly, push the black bar (spring-loaded slide) forward to expose the (yellow) head of the retaining post.
7. Unscrew and remove the retaining post that keeps the flagger in place.



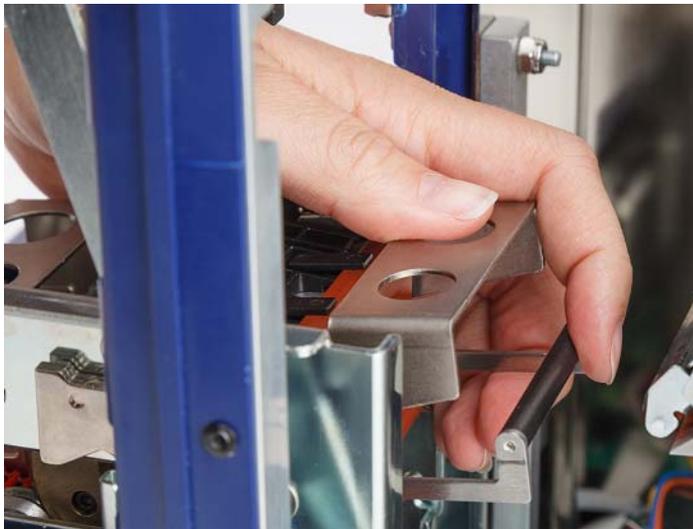
The front door was removed for better visualization. It is not necessary to remove door when replacing block assembly.

8. Reach underneath the assembly to remove the flagging block.

9. Discard the old flagging block.



10. Insert the flagging block assembly so the black nubs and threaded stud line up with the holes on the mating surface. Hold the flagging block in place against the mounting surface.



11. Compress the black bar (spring-loaded slide) about one inch while holding the new flagging block in place.
12. Replace the retaining post, making sure that the end of the post goes inside the smallest coil of the spring and that the new flagging block is held tightly against the mounting surface.
13. Close the front cover.

Replace Print Head Assembly

The print head assembly is a replacement part that you can order.

To remove the old printhead assembly:

1. On the touch screen, tap **Load Supplies** and then tap **Load Supply**.
This shuttles the print mechanism back.
2. Power off and unplug the printer.

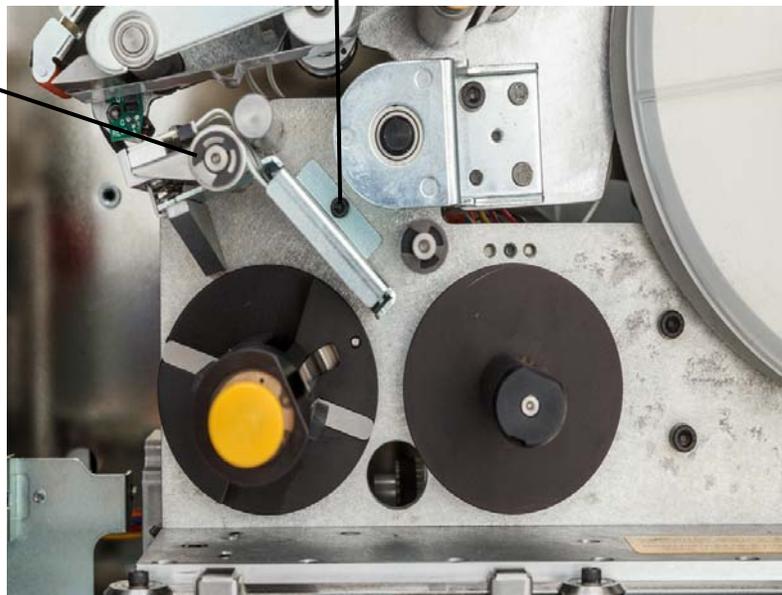


WARNING! Power off and unplug the BradyPrinter A5500 printer prior to performing any cleaning or maintenance!

3. Open the side door on the printer.
4. Remove label material making sure to release the label roll to avoid damaging the smart cell. For details see [“Remove previously used material:” on page 19](#).
5. Remove the ribbon. See [“Remove the old ribbon” on page 24](#).
6. Using a 7/64" hex key, remove the screw that is located above the print head assembly stamping. **Save the screw for installation of the new assembly.**

Printhead Mounting
Pivot Shaft
(washer and screw
located on opposite side)

Screw
(located above
printhead assembly)



7. Using a 5/32" hex key, remove the washer and screw located *opposite* the print head mounting pivot shaft. You will need to reach around to the back of the printer to remove the washer and screw. **Save the washer and screw for installation of the new assembly.**

8. Remove the print head assembly. Make sure that the print head ribbon cable is eased part way through the cable slot.
9. Remove the strain relief tape (if present) from the print head ribbon cable.
10. Disconnect the print head ribbon cable from the assembly, noting the orientation of the cable.

Note: It is important to note the orientation of the print head ribbon cable when disconnecting to re-connect it the same way.

To install the new print head assembly:

1. Connect the print head ribbon cable to the assembly, orientating it the same way as it was when removed.
2. Replace strain relief tape, if it was present while disconnecting, on the print head ribbon cable.
3. Install the print head assembly, ensuring that the print head ribbon cable and connector are eased back through the cable slot.
4. Using a 5/32" hex key, replace the washer and screw located *opposite* the printhead mounting pivot shaft.
5. Using a 7/64" hex key, replace the screw that is located above the print head assembly stamping.
6. Replace label material and ribbon and close the side door.

Installing an Upgrade

Upgrades to system firmware are made available online.



CAUTION! Do not interrupt printer power during an upgrade.

To upgrade firmware:

1. On a computer, go to www.bradyid.com/A5500.
2. Scroll down to SOFTWARE/FIRMWARE UPDATES and click the link for the most recent firmware update.
The new page will provide an overview of what is included in the release.
3. Scroll to the bottom of the page and click **Begin Download**.
4. Save the downloaded file to a USB drive.
5. Connect the USB drive to the USB port on the printer. The printer recognizes the upgrade file and displays a message on the touch screen.
6. Follow the instructions on the touch screen.
When the upgrade is complete, the printer restarts.

7 Troubleshooting

If you encounter a problem while using the printer, see the following sections for help troubleshooting the issue.

Problem	Cause	Corrective Action
<p>Label ends on flag are not aligned correctly or are completely wrapping around the wire.</p>	Wire diameter setting is wrong.	<p>Go to Settings > Print Adjustments > Wire Diameter</p> <p>If it is set to Auto, manually adjust it to your specific wire diameter to get the best results. For more information see “Print Adjustments” on page 32.</p>
	Wire is curved, bent or kinked.	Ensure that the wire inserted into the flagger mechanism is straight.
	Too much of the label is peeled before flagging the wire.	<p>Go to Settings > Print Adjustments > Feed To Wire Setting</p> <p>If the adhesive is visible on the front side of your flag, decrease the Feed To Wire setting. If the adhesive is visible on the back side of your flag increase the Feed To Wire setting. For more information see “Print Adjustments” on page 32.</p>
	Label liner is being pinched.	Make sure nip rollers are in down position. See “Load Label Supply” on page 17 for location of nip rollers.
	Encoder roller is not rotating properly.	Confirm that the label liner is making contact with the encoder roller. If it is, then power off and unplug the unit. Open the nip rollers, pull the label supply slightly away from encoder roller then try to roll the encoder. It should roll freely without resistance. For a visual of the location of the encoder roller, see the picture under “Load Label Supply” on page 17 . If the encoder roller does not rotate, send the printer for service.
	Notch sensor is dirty.	Clean the notch sensor following the directions in the section “Cleaning the Sensors” on page 43.

Problem	Cause	Corrective Action
<p>Label is skewed on wire.</p> <p>Note: A minimal amount of skewing is normal, especially on larger wires.</p>	Wire is curved, bent or kinked.	Ensure that the wire inserted into the flagger mechanism is straight.
	Wire is not being inserted properly.	Be sure to hold the wire straight and tight during the flagging process. Do not let wire rotate while flagging. Large diameter wires might need to be manually straightened before inserting into the jaws to ensure good flag quality.
	Flagger block is not installed properly.	Check the position of the flagger block by following the instructions in the section “Replace Flagger Block Assembly” on page 49.
<p>Label does not stick to wire.</p>	Wire diameter setting is wrong.	Go to Settings > Print Adjustments > Wire Diameter If it is set to Auto, manually adjust it to your specific wire diameter to get the best results. For more information see “Print Adjustments” on page 32.
	Wire is dirty, bent or kinked.	Ensure that the wire inserted into the flagger mechanism is straight. Confirm that the wire is clean and free of contaminates.
<p>Label jams on flagger.</p>	Flagger surface is dirty.	Clean the flagger following the instructions in “Cleaning the Flagger Surface” on page 40.
	Flagger is worn or uneven.	Check the flagger for wear and rotate 180 degrees or replace if both sides are worn out. Flagger is not level from front to back. Adjust flagger halves until they are level. If it is necessary to replace the flagger, follow the instructions in “Replace Flagger Block Assembly” on page 49.
<p>Label jams on wire.</p>	Adhesive build-up on o-rings.	Use Isopropyl alcohol on a swab to clean the o-rings which are located on the front of the label deflector. See “Cleaning the Print Head” on page 41
	Static build-up.	Confirm humidity is within range. See “Environmental Ranges” on page 2.
<p>Flagger stalls during application.</p>	A wire diameter larger than 0.6 is being used.	Only flag wires between 0.060" (1.524 mm) minimum and 0.600" maximum.
	Wire is curved, bent or kinked.	Ensure that the wire inserted into the flagger mechanism is straight.

Problem	Cause	Corrective Action
Supply out error.	Notch sensor is dirty.	Clean the notch sensor following the instructions in “Cleaning the Sensors” on page 43.
	Label supply is incorrectly installed.	Remove and reinstall label supply following the instructions in “Load Label Supply” on page 17.
	Adhesive build-up on encoder.	Use Isopropyl alcohol on a lint free cloth to clean.
	Material reader is not seated correctly.	Use the label roll flange to rotate the label roll to disengage and re-engage material reader.
Ribbon out error.	Ribbon is incorrectly installed.	Remove and reinstall ribbon following the instructions in “Load the Printer Ribbon” on page 23.
	Electrical contacts are damaged.	Remove the ribbon and look at the electrical contacts on the feed spool. If the contacts are bent or damaged, the printer will need to be sent in for service.
Wire hits flagger frame.	Wire diameter is 0.5 or greater.	This is normal. No corrective action needed.

8 Mounting Dimensions

Use the drawings in this appendix when bolting the printer to the work surface.

Bolt Printer to Work Surface

The BradyPrinter A5500 printer comes with threaded bolt holes on the bottom for table top mounting. If the work surface vibrates or the printer will be placed on a moving cart, you may wish to stabilize it.

You will need four bolts with thread size 1/4-20.

To bolt the printer to a table or cart:

1. Use the dimensions in the following drawings to measure and mark the location of the bolt holes on the work surface.
2. Drill appropriately sized holes in the work surface and bolt printer to work surface using four 1/4-20 bolts.

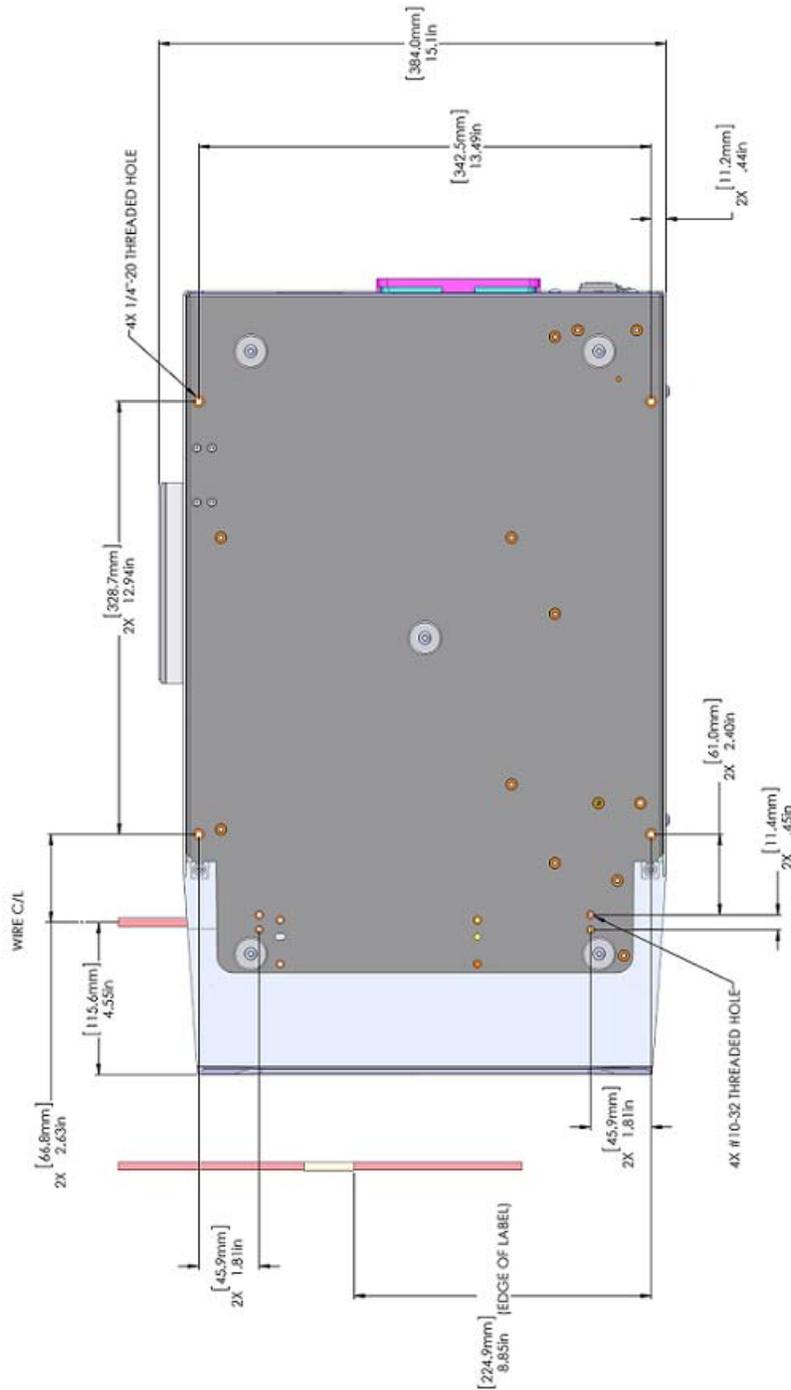


Figure 8-1. Bottom View for Mounting Printer

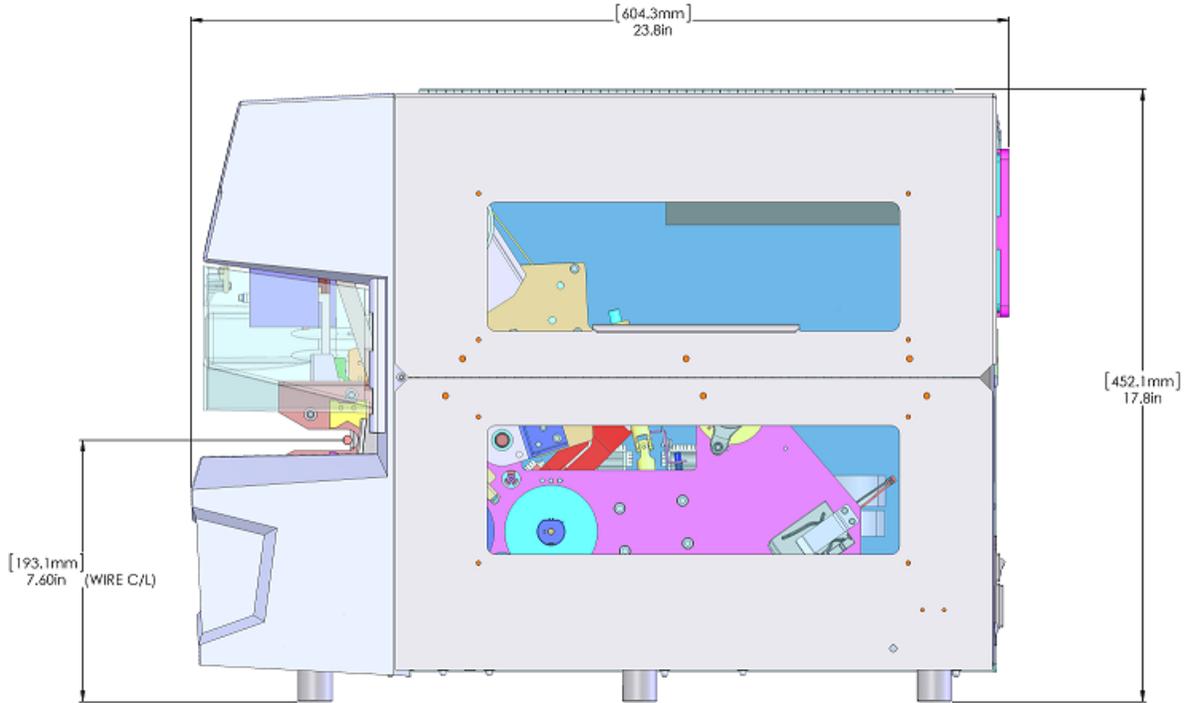


Figure 8-2. Side View for Mounting Printer

A Regulatory Compliance

Agency Compliance and Approvals

United States

FCC Notice

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and, (2) this device must accept any interference received, including interference that may cause undesired operation.

Canada

Innovation, Science and Economic Development (ISED)

Canada ICES-003:

CAN ICES-3 (A)/NMB-3(A)

Europe



WARNING! This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.



Waste Electrical and Electronic Equipment Directive

In accordance with the European WEEE Directive, this device needs to be recycled in accordance with local regulations.

Batteries Directive 2006/66/EC



This product contains a lithium coin cell battery. The crossed-out wheeled bin shown to the left is used to indicate 'separate collection' for all batteries and accumulators in accordance with European Directive 2006/66/EC. Users of batteries must not dispose of batteries as unsorted municipal waste. This Directive determines the framework for the return and recycling of used batteries and accumulators that are to be collected separately and recycled at end of life. Please dispose of the battery according to your local regulations.

Notice to Recyclers

To remove the lithium coin cell battery:

1. Disassemble printer and locate the lithium coin cell battery located on the main circuit board.
2. Using a small screwdriver, pry the battery from its holder and remove the battery from the board. Dispose of in accordance with local regulations.

Turkey

Turkish Ministry of Environment and Forestry

(Directive on the Restriction of the use of certain hazardous substances in electrical and electronic equipment).

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

China

Find RoHS Declaration information for this product at www.bradyid.com/A5500compliance.

Wireless Regulatory Information

Regulatory markings, subject to country certification, are applied to host printer signifying WiFi (radio) approvals have been obtained. These countries include; U.S., Canada, Mexico, European Union, Australia, New Zealand, China, and India.



WARNING! Operation of the device without regulatory approval is illegal.

WiFi radio module (permanently installed in printer having WiFi option)

Radio protocol	WLAN IEEE 802.11b/g/n
RF Operating Frequency	2.4 – 2.495 GHz
RF Output Power	< +20dBm EIRP (100mW)
Antenna Type \ Antenna Gain	PCB trace antenna \ -3.06 dBi
Environmental Operation	-40 to 85° C (-40° to 185° F) Note: Be mindful of Brady host printer user guide for maximum operating temperatures
Environmental Storage	-55 to 125° C (-67° to 257° F) Note: Be mindful of Brady host printer user guide for maximum storage temperatures

United States

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and, (2) this device must accept any interference received, including interference that may cause undesired operation.

Co-located statements: To comply with FCC RF exposure compliance requirement, the antenna used for this transmitter must not be co-located or operating in conjunction with any other transmitter/antenna except those already with radio module filing.

RF exposure guidelines: The radiated output power of this device is far below the radio frequency exposure limits. Nevertheless, to avoid the possibility of exceeding radio frequency exposure limits for an uncontrolled environment, a minimum 20cm distance should be maintained from WiFi radio module PCB antenna (internal) to the head, neck, or body during normal operation.

Canada

Innovation, Science and Economic Development (ISED)

CAN ICES-3 (A)/NMB-3(A)

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Co-located statements: To comply with FCC RF exposure compliance requirement, the antenna used for this transmitter must not be co-located or operating in conjunction with any other transmitter/antenna except those already with radio module filing.

RF exposure guidelines / Important note: This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Note Importante: Déclaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

Mexico

IFETEL notice:

"La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada."

European Union

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Radio Equipment Directive (RED) 2014/53/EC

- a. Frequency band(s) in which the radio equipment operates; 2.401GHz to 2.483GHz
- b. Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operate; < +20dBm EIRP (100mW)

International

The WiFi radio module used in Brady host printers comply with internationally recognized standards covering human exposure to electromagnetic fields, i.e. EN 62311 "Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)".

B Licensing

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