



M511

LABEL PRINTER

User Manual

Copyright and Trademarks

Disclaimer

This manual is proprietary to Brady Worldwide, Inc. (hereafter “Brady”), and may be revised from time to time without notice. Brady disclaims any understanding to provide you with such revisions, if any.

This manual is copyrighted with all rights reserved. No portion of this manual may be copied or reproduced by any means without the prior written consent of Brady.

While every precaution has been taken in the preparation of this document, Brady assumes no liability to any party for any loss or damage caused by errors or omissions or by statements resulting from negligence, accident, or any other cause. Brady further assumes no liability arising out of the application or use of any product or system described, herein; nor any liability for incidental or consequential damages arising from the use of this document. Brady disclaims all warranties of merchantability of fitness for a particular purpose.

Brady reserves the right to make changes without further notice to any product or system described herein to improve reliability, function, or design.

Trademarks

M511 is a trademark of Brady Worldwide, Inc.

Microsoft, Windows, Excel, Access and SQL Server are registered trademarks of Microsoft Corporation.

All brand or product names referenced in this manual are trademarks (™) or registered trademarks (®) of their respective companies or organizations.

© 2023 Brady Worldwide, Inc. All Rights Reserved.

Y5115727

Revision B-1

Brady Worldwide, Inc.
6555 West Good Hope Road
Milwaukee, WI 53223
bradyid.com

Brady Warranty

Our products are sold with the understanding that the buyer will test them in actual use and determine for themselves the adaptability to their intended uses. Brady warrants to the buyer that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyer.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATIONS OR LIABILITY ON BRADY'S PART. UNDER NO CIRCUMSTANCES WILL BRADY BE LIABLE FOR ANY LOSS, DAMAGE, EXPENSE OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING IN CONNECTION WITH THE USE, OR INABILITY TO USE, BRADY'S PRODUCTS.

Safety and Environment

Please read and understand this manual before using the M511 printer for the first time. This manual describes all of the main functions of the M511 printer.

Precautions

Before using the M511 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 opening 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.
- Do not place anything on the power cord.
- This equipment is not intended for use by children.

Technical Support and Registration

Contact Information

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

- **United States:** bradyid.com/techsupport
- **Canada:** bradycanada.ca/contact-us
- **Mexico:** bradyid.com.mx/es-mx/contacto
- **Latin America:** bradylatinamerica.com/es-mx/soporte-técnico
- **Europe:** bradyeurope.com/services
- **Australia:** bradyid.com.au/technical-support
- **Asia Pacific:** brady.co.uk/landing-pages/global-landing-page

Registration Information

To register your printer go to:

- 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.

Document Conventions

When using this document, it is important that you understand the conventions used throughout the manual.

- All user actions are indicated by **Bold** text.
- References to menus, windows, buttons and screens are indicated by *Italicized* text.

Contents

1 • Introduction

System Specifications	1
Physical and Environmental Characteristics	2
Proximity Range for Bluetooth	2

2 • Setup

What's in the Box	3
Save the Packaging	4
Registration	4
Printer Components	5
Exterior	5
Interior	6
Power and Battery	7
Power Adapter	7
Charging the Printer	8
<i>Plugging in the Printer</i>	8
<i>Before Initial Use</i>	10
Power On	11
Automatic Shut Down	11
Force Restart	11
Software for Creating Labels	11
Mobile Device	11
Computer	12
Installing the Windows Driver (Optional)	12
Connecting the Printer	12
Bluetooth	13
<i>Disconnecting</i>	13
USB	13
Printer Settings	13
Shutdown	14
Printer Name	14
Loading Cartridges	14
Recycling the Cartridge	16
Materials	16
Dismantling the Cartridge	17
Recycling Components	19
Accessories	20
Magnet	20
Utility Hook	22

3 • Getting Started

Controls and Status	23
Power	23

Cut	23
Bluetooth	23
Battery Status	24
Error	24
Creating Labels	24
Printing	24
4 • Maintenance	
Installing Firmware Upgrades	26
Updating the Printer Label Library	26
Cleaning the Printhead and Platen Roller	27
Cleaning the Sensor	28
5 • Troubleshooting	
Troubleshooting Scenarios	29
Cutter does not cut or cuts poorly	30
Labels won't feed	30
Labels are jammed in the printer	30
Printer does not turn on	30
Printer turns off by itself	31
Print quality is poor	31
The first label printed has a black line on it	31
Nothing prints	32
Text positioned incorrectly on pre-sized labels	32
Battery doesn't fully charge in four hours	32
Printer not connecting to mobile device	32
Error Messages	32
A • Regulatory Compliance	
Agency Compliance and Approvals	34
United States	34
<i>FCC Notice</i>	34
Canada	34
Mexico	34
Europe	35
<i>RoHS Directive 2011/65/EU, 2015/863/EU</i>	35
<i>Batteries Directive 2006/66/EC</i>	35
Turkey	35
China	36
Taiwan	36
Wireless Regulatory Information	37
United States	37
Canada	38
Mexico	38
European Union	38
International	38
Japan	39
Indonesia	39

China	39
South Africa	39

B • Licensing

FreeRTOS	40
Newlib	40
CMSIS	41
Apache License	41
RapidJSON	44

1 Introduction

Use the Brady Express Labels mobile app or Brady Workstation software to design labels and print to the M511 label printer. The M511 printer includes the following features:

- Withstands a 6 ft. (1.8 m) drop
- Crush resistant to 250 lbs (113.4 kg)
- Military-grade shock resistance
- Uses M50 series print cartridges
- Automatic label cutter
- Connect up to five simultaneous users with Bluetooth® Low Energy 5.0
- Compact and lightweight at 2.3 lbs (1.06 kg)
- Prints 1000 labels per day
- Internal lithium ion battery
- USB-C to USB-A coupler

System Specifications

The M511 printer has the following specifications:

- Weight 2.77 lbs (1.26 kg) (with label cartridge)
- Thermal transfer print mechanism, 300 dpi
- Print width: 1 - 1.44" (25.4 - 36.6 mm)
- Print length for labels: 39" (990.6 mm) maximum
- Liner width: 1.8" (46 mm) maximum
- Label widths from 0.235" (6.0 mm) through 1.5" (38.1 mm)
- Minimum label height: 0.236" (5.99 mm)
- Prints up to 300 labels per battery charge
- Print speed: up to 1.33 in/sec (33 mm/sec)
- Internal lithium ion battery, 2450 mAh

Physical and Environmental Characteristics

The M511 printer has the following physical and environmental characteristics:

Physical	U.S. Units	Metric Units
Dimensions	6.4" L x 6" W x 3.6" H	163 x 151 x 92 mm
Weight (with label supply and ribbon)	2.77 lbs	1.26 kg

Note: The table below refers to the M511 printer only. Consumable performance may vary.

Environmental	Operation	Storage
Temperature (Printer) Note: Prolonged exposure of the printer to direct sunlight is not recommended.	40° to 110° F (4° to 43° C) The AC adapter is rated at a maximum temperature of 104° F (40° C).	0° to 110° F (-18° to 43° C)
Relative Humidity (Printer)	20% to 90% (non-condensing)	10% to 90% (non-condensing)

Proximity Range for Bluetooth

The M511 printer should be within 65 ft (19.8 m) of the device to pick up the Bluetooth signal.

2 Setup

What's in the Box

The following items are included in the standard M511 package:

- M511 printer with internal battery. (Battery is not accessible. Contact Brady Technical Support for service.)
- AC adapter with USB-C cable
- USB-C to USB-A coupler
- Cartridge MC-1500-595-WT-BK
- Quick Start Guide
- *Brady Workstation Basic Design Suite* brochure including download instructions
- USB drive including User Manual, Quick Start Guide, and driver



Save the Packaging

Save the packaging surrounding your M511 printer in case you have to ship the printer and accessories back to the supplier.



CAUTION! If shipping the printer, consult with your transportation carrier for state, federal, municipal, and international shipping regulations regarding the lithium ion battery contained in the printer.

Registration

Register your printer online at www.bradycorp.com/register and receive free product support and updates!

Printer Components

Exterior



1	Door	6	Error indicator
2	Label exit	7	Battery indicator
3	Eject button	8	Bluetooth indicator
4	USB port	9	Cut button
5	Door finger tab	10	Power button

Interior



1	Door
2	Cartridge bay with cartridge
3	Lock lever

Power and Battery

Power is supplied to the M511 printer from an internal lithium ion battery, or from an AC or USB power adapter.



WARNING! To prevent risk of fire, electrical shock, explosion, or damage, read below.

- Do not expose the printer to temperatures above 110° F (43° C).
- Do not disassemble, mistreat, or attempt to replace components in the printer.
- Do not incinerate the printer. Keep the printer away from heat sources.
- Keep the printer away from water.
- Never lay objects on top of the printer.
- Store the printer in a cool, dry place.
- The printer must be recycled or disposed of properly according to federal, state, and municipal regulations.



CAUTION! The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 110° F (43° C), or incinerate.



CAUTION! Dispose of used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.

Power Adapter

The printer can be powered and charged through an AC/DC power adapter or by plugging into a USB port on a laptop or in a vehicle. When the adapter is plugged in, it is also charging the battery.

Note: For best results use the USB to AC wall adapter that came with the printer. This adapter provides at least 15 W. The printer will take longer to charge with an adapter that is less than 15 W. Also, charging from a USB type A port generally provides less than 15 W and thus may not charge as well.

For rapid charging, use the AC adapter to plug the printer into a wall outlet.

Catalog Number	Region
M511-AC	North America
M511-EU-UK-US-AC	Europe, Middle East, Africa
M511-APAC-AC	Asia-Pacific
M511-CHINA-AC	China



	North America
1	USB-C cable
2	USB C to A coupler
3	AC wall adapter with type A plug

	Europe, Middle East, Africa
1	USB-C cable
2	USB C to A coupler
3	AC wall adapter with type A plug
4	Type C plug
5	Type G plug

	Asia-Pacific, Australia
1	USB-C cable
2	USB C to A coupler
3	AC wall adapter with type A plug
4	Type C plug
5	Type G plug
6	Type I plug

	China
1	USB-C cable
2	USB C to A coupler
3	AC wall adapter with type A plug
4	Type C plug
5	AC wall adapter with type A plug (China)

Charging the Printer

Plugging in the Printer

You can charge the printer from an electrical outlet or a USB port.

IMPORTANT! When charging the printer for the first time, use an electrical outlet.

For battery status indicators, see [“Battery Status” on page 24](#).

To plug the printer in to an electrical outlet:

1. Insert one end of the USB-C cable into the USB port on the printer.



2. Insert the other end of the USB-C cable into the USB-C port on the AC adapter.



3. Use the appropriate plug for your region.
 - **North America:** Plug the AC adapter into an electrical outlet.
 - **Europe, Middle East, and Africa:** Attach the type C or G plug to the AC adapter and then plug the adapter into an electrical outlet.
 - **Asia-Pacific:** Attach the type C, G, or I plug to the AC adapter and then plug the adapter into an electrical outlet.
 - **China:** Attach the type C plug to the AC adapter and then plug the adapter into an electrical outlet.

To plug the printer in to a USB-A port:

1. Insert one end of the USB-C cable into the USB port on the printer.



2. Insert the other end of the USB-C cable into the USB-C port on the USB-C to A coupler.



3. Plug the USB coupler into a USB-A port on a computer or in a vehicle.

***Before Initial Use***

Fully charge the internal lithium ion battery before running the printer on battery.

1. Plug the printer into a power outlet. (For details see [“To plug the printer in to an electrical outlet:”](#) on page 9.)

- Charge for 2.5 hours. The battery status lights pulse while charging. When all four lights are green and stop pulsing, the battery is fully charged. For detailed status information see [“Battery Status” on page 24](#).



Power On

To turn the printer on or off:

- Press and hold the power button for one second.



Automatic Shut Down

To conserve battery charge, the printer automatically turns off after a period of inactivity. Use the Express Labels mobile app to set the inactive time, see [“Shutdown” on page 14](#).

Force Restart

To force the printer to restart if it becomes unresponsive, hold the power button down for fifteen seconds. The battery and Bluetooth lights will come on when the printer has restarted.

Software for Creating Labels

Install labeling software on your computer or mobile device, set up the connection to the printer, then use the software to design labels and send them to the printer. (Refer to your local Brady website for other Brady software. Be aware that older Brady labeling software may not automatically detect the printer and that the information in this manual is based on the software listed below.)

- Use the Brady Express Labels app on a mobile device.
- Use Brady Workstation software on a desktop or laptop computer.

Mobile Device

The mobile device operating system must be one of the following:

- Android 6.0 or higher
- Apple iOS 10.0 or higher

The mobile device must support Bluetooth® 4.2 or higher.

To install the Brady Express Labels app and get started:

1. Download the app from the Apple® App Store or the Google Play™ store.
2. Connect to the printer. See [“Connecting the Printer” on page 12](#).
3. Configure settings. See [“Printer Settings” on page 13](#).
4. Create labels and print.

Computer

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 workstation.bradyd.com.
3. Follow the instructions on the screen to choose the right software for your purpose and download it.



Installing the Windows Driver (Optional)

If you are using the Brady Express Labels app or Brady Workstation software, you do not need to install the windows driver. Skip to [“Connecting the Printer” on page 12](#).

If you are using older Brady software or third-party software, you must install the Windows driver. See the *Driver Installation Guide* PDF file on the USB drive that came with the printer.

Connecting the Printer

Connect to the labeling software using Bluetooth® wireless technology or a USB cable.

	Supported Connections
Computer	
Mobile Device	

Bluetooth

The Bluetooth status light has the following meanings:

- Bluetooth symbol is blinking blue: No devices are connected.
- Bluetooth symbol is solid blue: At least one device is connected.

Up to five mobile devices can be connected at a time.

To connect the printer to a mobile device via Bluetooth:

1. Turn on the printer. See [“Power On” on page 11](#). Bluetooth is automatically on when the printer is on.
2. Open the Express Labels app on your mobile device.
 - If no other printer is currently connected to the Express Labels app, the software detects the new printer.
 - If another printer is currently connected to the Express Labels app, manually add the printer. Tap on the menu, then tap **Printers**, then tap the yellow + icon to add a new printer.
3. Tap the control to connect the printer. Once connected, you may change the printer name if desired.



Disconnecting

If you need to disconnect a device, use the *Forget* function in the Express Labels app.

USB

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

Note: If you are not using Brady Workstation software, you need to install the printer driver. See the *Driver Installation Guide* PDF file on the USB drive that came with the printer.



Printer Settings

All settings are configured in the Express Labels mobile app. Most settings (like language and measurement units) are software-wide and not specific to one printer model. The only settings that you may wish to change for the M511 printer are the shutdown time and the printer name.

Shutdown

In order to save power, the printer can shut down after a period of inactivity. The default setting is to shut down after 30 minutes of inactivity.

To set the inactive period, open the list of printers in the Express Labels app and select your printer for printer information and properties.

Note: The shutdown time is stored on the printer, so if multiple people change the shutdown time, only the most recent value is in effect for all devices using the printer.

Printer Name

The default printer name is the printer model and serial number. You may wish to use a more descriptive name in the Express Labels app.

If you wish to change the printer name, open the list of printers in the Express Labels app and tap the more menu for an option to rename the printer. The name you assign is only used in this instance of the Express Labels app. Other people will see either the default name or the name they have assigned.

Loading Cartridges

The M511 printer uses M-50 series cartridges which combine the ribbon and labels in one cartridge. Only use cartridges that have the Brady Authentic logo.

Brady cartridges come equipped with smart-cell technology that enables the printer and Brady labeling software to recognize the type of label and automatically set many label formatting details.



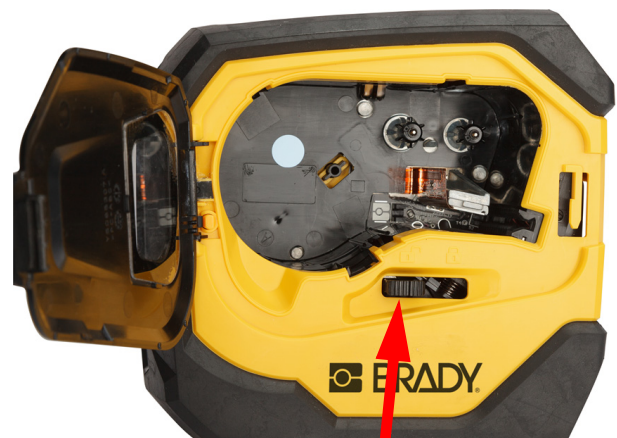
To load cartridges:

1. To open the door, push or pull up on the finger tab.

- Slide the lock lever left to unlock the cartridge. Cartridges can be loaded with the power on or off.



Locked



Unlocked

- Push the eject button on the back of the printer.



- Lift the cartridge out of the printer.



- Place a new cartridge in the bay and push down until the cartridge snaps into place.

- Slide the lock lever right to lock the cartridge.



- Close the door.

If the cartridge is empty, recycle according to local regulations. (See [“Recycling the Cartridge”](#) on page 16 for more information on recycling cartridges.)

Store the cartridge in a cool, dry place.



WARNING! Please note that the cartridge bay contains parts and assemblies that may be susceptible to damage by Electrostatic Discharge (ESD). When loading or unloading a cartridge, care must be taken so that devices are not damaged.

Recycling the Cartridge

Cartridges need to be recycled in accordance with local regulations. Before recycling, the used cartridges must be pulled apart to release the individual components. These various components must then be recycled in the correct recycling bins.

Materials

- 1/4-inch blade flathead screwdriver
- Safety Glasses
- Safety Gloves



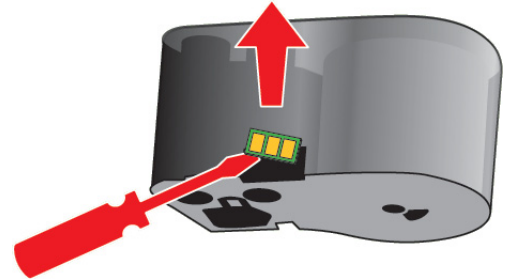
CAUTION! Always wear personal protective equipment when dismantling a ribbon or label cartridge.

Dismantling the Cartridge

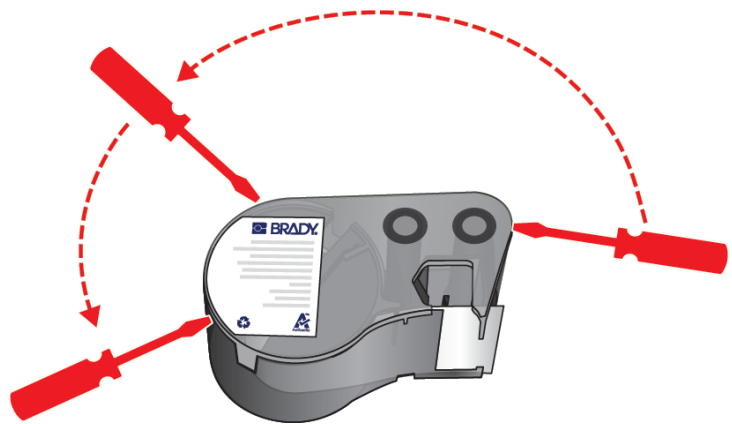
To dismantle the cartridge:

1. Using the flathead screwdriver, pry off the smart cell on the bottom of the cartridge by placing the screwdriver blade under a corner of the smart cell and lifting up.

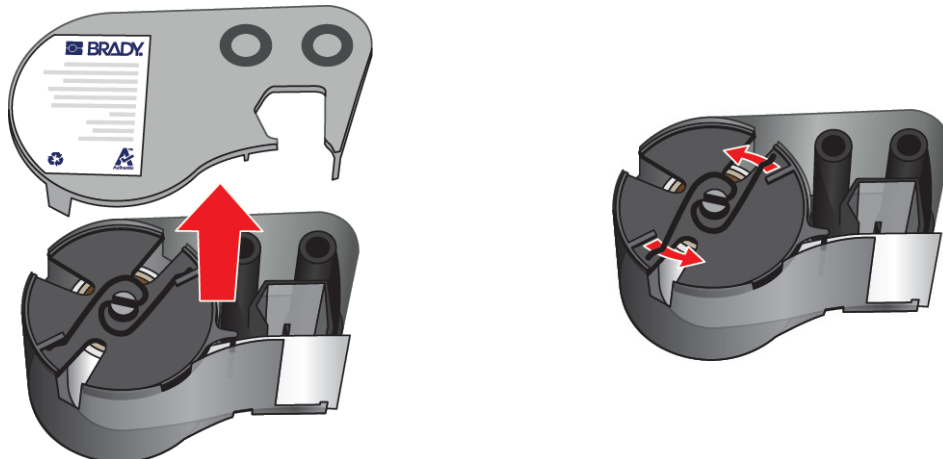
The chip is glued on and should release fairly easy.



2. Starting at the narrow end of the cartridge, insert the flathead screwdriver into the seam of the cartridge, then twist the screwdriver slightly to loosen the two outside pieces of housing. Repeat at various points around the seam.



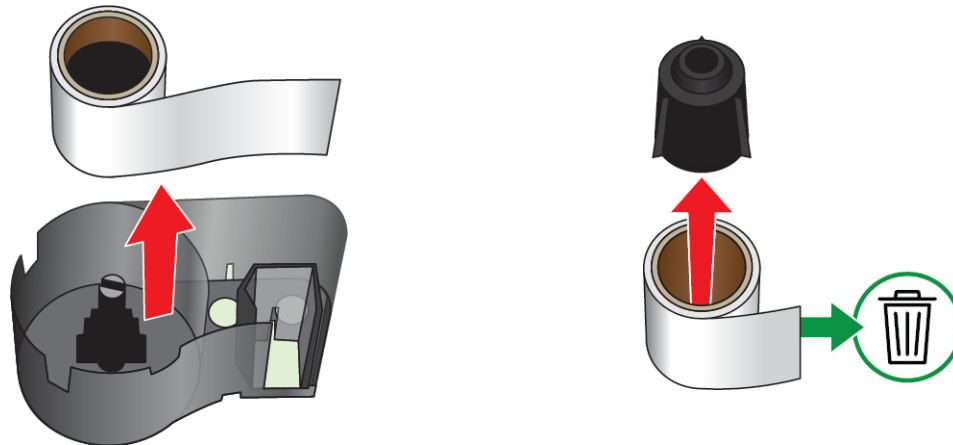
3. Separate the top of the housing from the base. Pry one leg of the metal spring on top of the disk out from the clip. The spring and disk will pop out of the housing.



- Remove the ribbon spools. Unwind and detach the ribbon from its spools.



- Lift the labels out of the cartridge housing and then remove the black plastic cylinder from inside the label core.



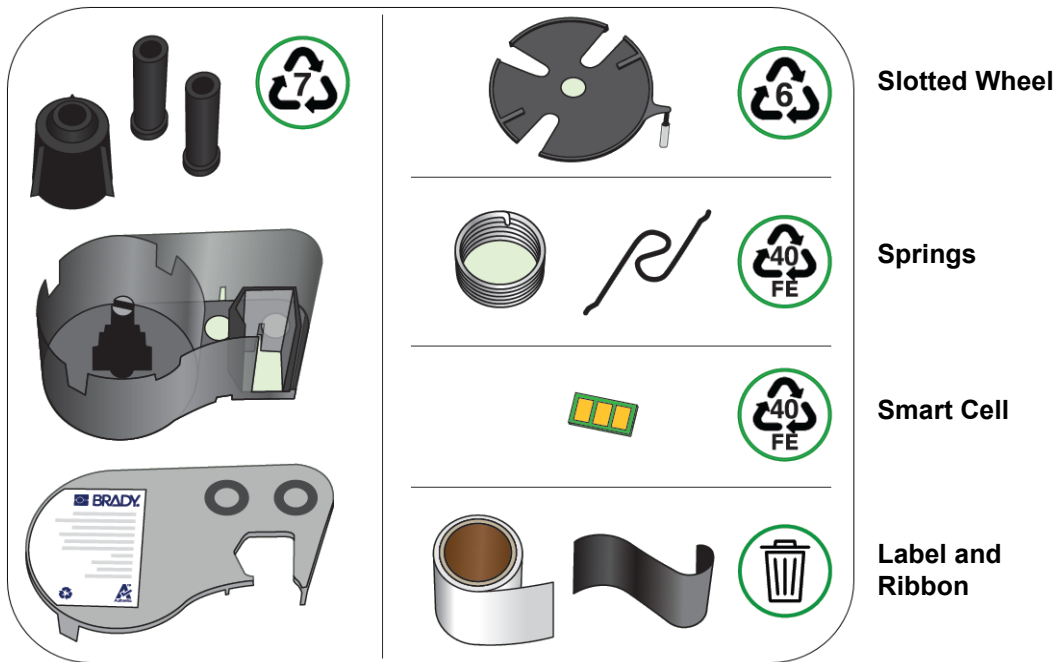
- Slide the metal spring out from the inside of the black plastic cylinder.



Recycling Components

These components should be removed from the cartridge and recycled according to the following guidelines.

Housings and Spools



Component	Material	Recycle Bin
Housings and spools	Polycarbonate (PC)	#7 Plastics
Springs	Metals	#40 Metals
Smart cell	Electronic	Electronic waste
Slotted wheel	Polystyrene	#6 Plastics

Accessories

The following accessories are available for the M511 printer and can be purchased separately from your distributor:

- Magnet (M51-MAGNET)
- Utility hook (M511-HOOK)
- Power Brick (M511-POWER)
- AC adapter set for North America (M511-AC)
- AC adapter set for Europe, Middle East, and Africa (M511-EU-UK-US-AC)
- AC adapter set for Asia-Pacific and Australia (M511-APAC-AC)
- AC adapter set for China (M511-CHINA-AC)
- Soft-sided carrying case (BMP-SC-1)
- Hard-sided carrying case (M511-HC)

Magnet

Use the magnet accessory, purchased separately, to attach the printer to magnet-receptive metal surfaces such as panels and I-beams.



WARNING! The magnet accessory contains a neodymium magnet.

- Strong magnets may interfere with proper operation of heart pacemaker, defibrillator, insulin pump, or other medical devices. Keep magnets a sufficient distance from anyone wearing these devices.
- Do not use magnets in explosive atmospheres.

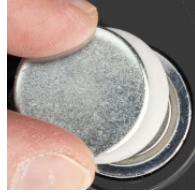


- Do not give children strong magnets (especially neodymium). Keep this product out of the reach of children.
- Many magnets are brittle and may shatter if they “jump” together or jump onto a steel surface. Always wear eye protection if this is likely to happen.
- Analog watches, televisions, and computer monitors can be permanently damaged by placing magnets near them.
- Strong magnets may affect or interfere with sensitive electronic instruments and navigation equipment. Always keep magnets a sufficient distance from such devices.
- Magnets can destroy information stored on magnetic media such as credit cards, tape drives, and computer hard drives. To preserve your data, keep these and other magnetic media away from the product.

Dispose in accordance with federal, state, and local regulations.

To attach the magnet accessory to the printer:

1. Slide the magnet keeper plate off of the magnet.



2. Position the magnet accessory on the back of the printer so that the screw holes line up.



3. Screw in the three screws that come with the magnet to affix it to the printer.



Utility Hook

Use the utility hook, purchased separately, to hang the printer from a hook, knob, or other protuberance.

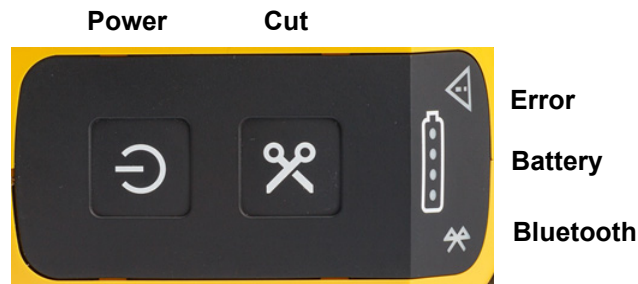
To attach the utility hook:

1. Position the utility hook on the back of the printer so that the screw holes line up.
2. Screw in the three screws that come with the utility hook to affix it to the printer.

3 Getting Started

Controls and Status

A panel on top of the printer contains the power and cut buttons and three status lights.



Additional status information, such as remaining material in the cartridge, can be found in the Brady Express Labels app and on the Print page in your Brady Workstation app.

Power

The power button can turn the printer on or reboot depending on how long you hold it.

- Tap: Turns the printer on or off.
- 15 seconds: Reboots the printer.

Cut

Cutting occurs automatically depending on the cut setting in the label file. To manually cut, press the cut button on the printer.

Bluetooth



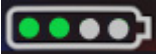


The Bluetooth status light has the following meanings:

- Pulsing light: The printer is broadcasting a Bluetooth signal for pairing.
- Solid light: The printer is paired with a mobile device.

Five mobile devices can use the printer at a time. When the Brady Express Labels app is no longer active on a mobile device (the app can still be open, but in the background), the connection becomes available for another device.

Battery Status

The battery status light is comprised of four dots that indicate the level of charge. Pulsing lights indicate that the battery is charging.

-  76–100% charged, or charging completed
-  51–75% charged
-  26–50% charged
-  20–25% charged
-  Less than 20% charged

Error

The error light has the following meanings:

- Flashing orange: There is a critical error that prevents printing. Check the software for the error message. For additional help correcting the error, see [“Error Messages” on page 32](#).
- **Express Labels:** Open the Express Labels app on the connected device and view printer status to see the specific error message.
- **Brady Workstation:** Error messages are available from the Print page in the Brady Workstation app from which you printed. Make sure to use Brady Workstation on the computer connected to the printer and that the label file that you are printing is open.
- Solid orange: A non-critical error has occurred. You may dismiss the message in the Express Labels app or Brady Workstation software and continue printing.

Creating Labels

Create label files using the Brady Express Labels app or a Brady Workstation app. See [“Software for Creating Labels” on page 11](#).

Printing

Before printing, you must use a software program to create labels. See [“Software for Creating Labels” on page 11](#).

To print labels:

1. Make sure the printer is on and the cartridge is locked.
2. In the Brady Express Labels app or Brady Workstation software, open the label file.

3. Tap the print button in the software.

The software sends the labels to the printer.

If printing is interrupted, for instance when the cartridge runs out, the system automatically stops printing and lights the error indicator. The Express Labels app displays a message indicating that the cartridge has run out. Error information is also available in Brady Workstation, see [“Error” on page 24](#).

IMPORTANT! When not using the printer, be sure to unlock the cartridge. If the cartridge is left locked when the printer is not in use, the printhead remains pressed against the platen roller. Residual heat in the printhead can cause ink to transfer to the next label.

For troubleshooting information, see [Chapter 5: Troubleshooting](#) beginning on page 29.

4 Maintenance

Cleaning the printer improves print quality and legibility. It also increases output, machine life, printer reliability, and performance.

Installing Firmware Upgrades

Upgrades to firmware (printer system software) are available through the Brady Workstation software. The Brady Workstation Basic Design Suite is available for free. See [“To get Brady Workstation software:”](#) on page 12.



CAUTION! Do not interrupt printer power during an upgrade.

To upgrade firmware:

1. Connect the printer to a computer that has Brady Workstation installed. The computer must be connected to the internet.
2. Run the Brady Workstation software and open the Printers tool, which indicates when upgrades are available.
3. See the help in the Printers tool for more details.

Updating the Printer Label Library

Printer Label Library files are included in a database of label and ribbon part information that enables the printer to work optimally with various supplies.

Update Label Library files 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 Label Library files.

Upgrades to the printer's Label Library are available through the Brady Workstation software. The Brady Workstation Basic Design Suite is available for free. See [“To get Brady Workstation software:”](#) on page 12.

To update Label Library files:

1. Connect the printer to a computer that has Brady Workstation installed. The computer must be connected to the internet.

2. Run the Brady Workstation software and open the Printers tool, which indicates when upgrades are available.
3. See the help in the Printers tool for more details.

Cleaning the Printhead and Platen Roller

To clean the printhead and platen roller:

1. Press the power button on top of the printer to turn it off.



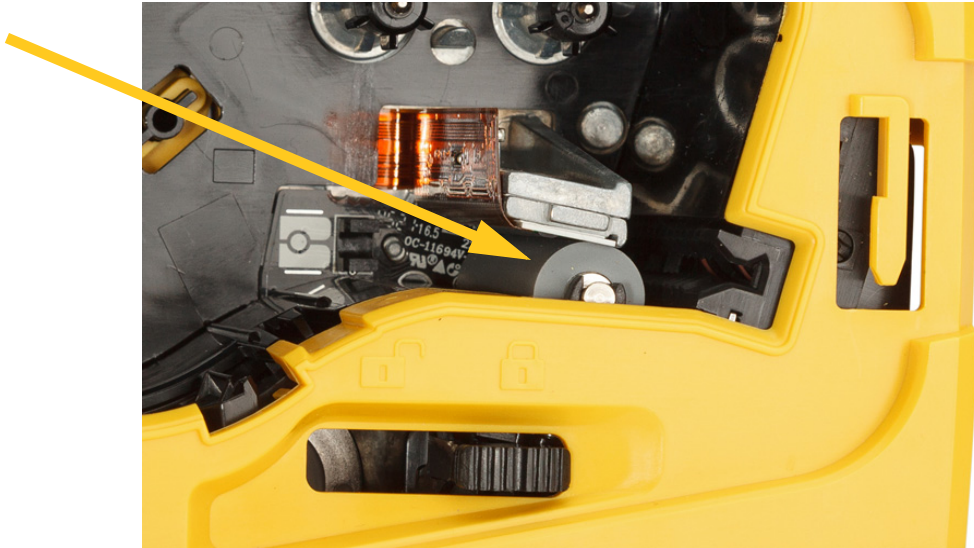
2. Remove the cartridge. See [“Loading Cartridges” on page 14](#).

Note: Make sure the lock lever is in the unlocked position (to the left). If not, you will not be able to access the printhead.

3. Lightly moisten a lint-free swab with isopropyl alcohol or use pre-moistened cleaning swabs (PCK-6). We recommend using Brady part number PCK-6 pre-moistened swabs because they are lint free and the isopropyl alcohol contains no additives.
4. Gently swab the printhead.




- Using a clean moistened swab, gently brush the platen roller. Slide the lock lever to the locked position to access the platen roller.

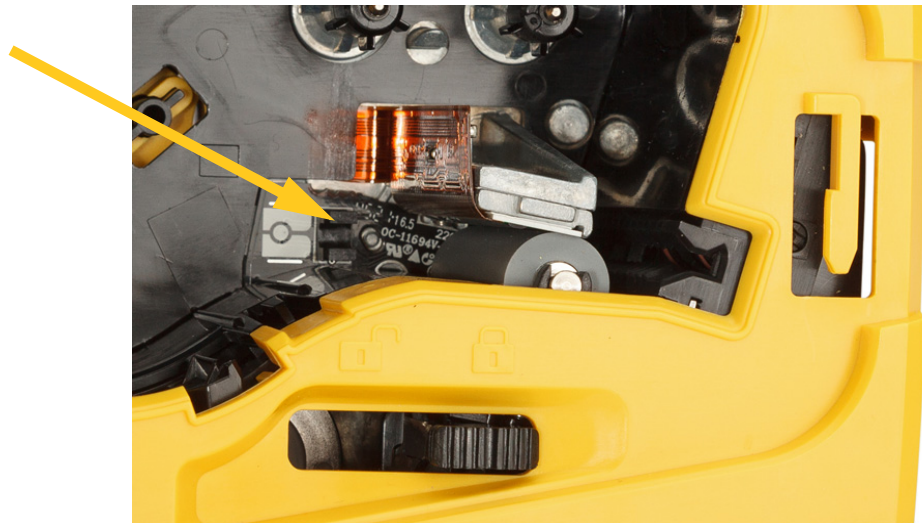


Cleaning the Sensor

Debris on the sensor can cause print to be offset on pre-sized labels.

To clean the position sensor:

- Press the power button on top of the printer to turn it off. 
- Remove the cartridge. See ["Loading Cartridges" on page 14](#).
- Clean debris off the sensor either with a can of compressed air or a lint-free swab.



5 Troubleshooting

The following sections provide information to help troubleshoot issues with the printer.

- The “[Troubleshooting Scenarios](#)” section below contains a list of possible issues you may encounter with information about the cause and solutions.
- “[Error Messages](#)” on page 32 provides a list of error messages with cross references to related information in this manual. Error messages appear in the Brady Express Labels app or Brady Workstation software rather than on the printer.

Troubleshooting Scenarios

If you encounter a problem while using the M511 printer, see the following sections for help troubleshooting the issue.

- Cutter does not cut or cuts poorly 30
- Labels won't feed 30
- Labels are jammed in the printer 30
- Printer does not turn on 30
- Printer turns off by itself 31
- Print quality is poor 31
- The first label printed has a black line on it. 31
- Nothing prints 32
- Text positioned incorrectly on pre-sized labels. 32
- Battery doesn't fully charge in four hours 32
- Printer not connecting to mobile device 32

Cutter does not cut or cuts poorly

Problem: Labels print, but are not cut, or the cuts are rough and torn.

Solutions:

- Label fragments may be stuck in the cutter. Remove the cartridge. Use a small tool such as tweezers or needle-nose pliers to carefully remove any fragments visible within the cartridge bay. Use caution not to damage any of the components in the cartridge bay. If you have concerns, please contact technical support for further assistance.



WARNING! Never attempt to remove fragments with your fingers. The cutter assembly includes very sharp components that can cause injury.

- Make sure the software is set to cut as desired (between labels or at the end of the job).

Labels won't feed

Problem: Labels won't advance out of the printer.

Solution: The leading edge of the label roll may be uneven or torn. Use a pair of scissors to cut a straight leading edge on the labels.

Labels are jammed in the printer

Problem: Labels are jammed in the printer.

Solution: Clear the jam.

1. Slide the lock lever left to unlock it. Unlocking retracts the platen so the cartridge can be removed. If the jam is large, you may have to force the lock lever to the unlocked position.
2. Remove the cartridge.
3. Use tweezers or a needle-nose pliers to carefully remove the jammed label and any fragments visible within the cartridge bay.



WARNING! Using metal objects to remove jams can scratch, dent, or crack the printhead. Use caution to avoid damaging the printhead.

Printer does not turn on

Problem: Nothing happens when I press the power button.

Solutions:

- The battery may need to charge. Plug the printer into a USB port using the USB cable that came with the printer. For more information, see [“Power and Battery” on page 7](#).
- If the battery is charged and the printer still does not turn on, press and hold the power button for fifteen seconds to reboot the printer.

Printer turns off by itself

Problem: The printer frequently turns itself off.

Solutions:

- The battery may be low. Plug the printer into a USB port or wall outlet. For more information, see [“Power and Battery” on page 7.](#)
- The printer may be set to shut off automatically after too short a time. See [“Shutdown” on page 14.](#)

Print quality is poor

Problem: Print is too light, fuzzy, grainy, compressed, offset, or has blank spots or lines.

Solutions:

- The ribbon may be wrinkled. Remove the cartridge from the printer and advance the ribbon by rotating the take-up spool clockwise until the wrinkled ribbon is no longer visible. Reinstall the cartridge and reprint the label.



- Dust or adhesives may have accumulated on the printhead. Clean the printhead. See [“Cleaning the Printhead and Platen Roller” on page 27.](#)
- The cartridge may not be usable. Install a different cartridge.
- The label supply may have a crease in it. Use the Express Labels app to feed the label supply past the crease and then reprint the label.
- If the print is compressed or offset, the platen roller may be dirty. Clean the platen roller. See [“Cleaning the Printhead and Platen Roller” on page 27.](#)

The first label printed has a black line on it

Problem: After being unused, the printer makes a black line on the first label printed.

Solution: If the cartridge is left locked when the printer is not in use, the printhead remains pressed against the platen roller. Residual heat in the printhead causes ink to transfer to the label. Reprint the label, and unlock the cartridge when the printer is not in use.

Nothing prints

Problem: I sent a file to the printer, but it didn't print.

Solutions:

- Make sure the cartridge lock lever is locked. See [“Loading Cartridges” on page 14](#).
- Check the cartridge for damage and replace it if it is damaged.
- Check for jammed labels. See [“Labels are jammed in the printer” on page 30](#).
- Reboot the printer. Press and hold the power button for 15 seconds.

Text positioned incorrectly on pre-sized labels

Problem: Text on pre-sized labels is not positioned correctly.

Solution: There may be debris on the position sensor. Remove the cartridge and blow debris off the sensor using a can of compressed air. See [“Cleaning the Sensor” on page 28](#).

Battery doesn't fully charge in four hours

Problem: The printer has been plugged in for four hours and is not yet charged.

Solution: If you had printed until the battery was completely discharged, and then the printer was unused for a long time (about four weeks or longer), the battery may take six to eight hours to recondition and fully charge.

Printer not connecting to mobile device

Problem: The printer does not appear in my Express Labels app.


Solution: The printer will not be visible if five other mobile devices are using it. The printer will become available automatically when one of the five devices releases the connection.

Error Messages

When the error light on the printer is lit, refer to the Brady Express Labels app or Brady Workstation software to see the error message. Most error messages provide some instruction to resolve the issue.

- In the Brady Express Labels app, view printer status to see error messages.
- In Brady Workstation, error messages are available from the Print page in the Brady Workstation app from which you printed. Make sure to use Brady Workstation on the computer connected to the printer and that the label file that you are printing is open.

Use the table below to find additional information included in this manual.

Error Message	Related Information
Battery power is too low to print. Charge printer soon.	Charge the printer. “Charging the Printer” on page 8
Cutter Jam. Open printer cover and clear cutter area. Press Cut to cycle the cutter.	Follow the instructions in the error message. Also see “Labels are jammed in the printer” on page 30 .
Label feed error. Reinstall or reposition label roll or cartridge.	The labels aren’t moving in the cartridge. Make sure the cartridge is installed correctly. “Loading Cartridges” on page 14
Leading edge of the label is not detected. Check cartridge for torn or uneven labels.	Follow the instructions in the error message.
No labels detected. Reinstall or replace label roll, cartridge or bulk material core.	Install a new cartridge. Make sure the lock lever is locked. “Loading Cartridges” on page 14
No labels detected. Verify Authentic Brady labels. Reinstall or replace label roll, cartridge or bulk core.	Check for the Authentic logo on the cartridge.  Reinstall the cartridge. “Loading Cartridges” on page 14
Out of labels. Reinstall or replace label roll or cartridge.	Install a new cartridge. “Loading Cartridges” on page 14

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)

Mexico

IFT 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.

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.

RoHS Directive 2011/65/EU, 2015/863/EU

This product is CE marked and complies with the European Union's Directive 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

EU Directive 2015/863 of 31 March 2015 (RoHS 3) amends Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances.

Batteries Directive 2006/66/EC



This product contains a lithium ion rechargeable battery pack. 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 ion battery pack:

1. Remove the back housing and locate the lithium ion battery pack.
2. Cut the red lead.
3. Cover the cut end (battery side of cut) with electrical tape.
4. Cut the remaining yellow and black leads in any order.
5. 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

China RoHS Hazardous Substance Table related to this product is available at www.bradyid.com/M511compliance.

警告

此为 A 级产品。在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对于干扰采取切实可行的措施。

仅适用于非热带气候条件下安全使用

Taiwan

Class A Statement

警告使用者

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Taiwan Restricted Substances Containment Status (RoHS Declaration) related to this product is available at www.BradyID.com/M511compliance.

Wireless Regulatory Information

Regulatory markings, subject to country certification, are applied to host printer signifying Bluetooth (radio) approvals have been obtained.



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

Radio protocol	Bluetooth Low Energy
RF Operating Frequency	2.402 – 2.480 GHz
RF Output Power	< 0 dBm EIRP (1 mW)
Antenna Type \ Antenna Gain	chip antenna \ 2 dBi
Environmental Operation	-40 to 85° C (-40° to 185° F) Note: Be mindful of the maximum operating temperatures for the printer. See “Physical and Environmental Characteristics” on page 2.
Environmental Storage	-55 to 125° C (-67° to 257° F) Note: Be mindful of the maximum storage temperatures for the printer. See “Physical and Environmental Characteristics” on page 2.

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 Bluetooth 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.

Mexico

IFT 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 operates; < +20dBm EIRP (100mW)

International

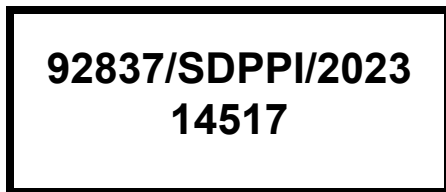
The Bluetooth radio module used in Brady host printers comply with internationally recognized standards covering human exposure to electromagnetic fields, i.e. EN 62311 "Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)".

Japan

MIC \ TELEC: 005-102490

当該機器には電波法に基づく、技術基準適合証明等を受けた特定無線設備を装着している。

Indonesia



China

CMIITID: 2023DJ13528

South Africa

TA-2023/0838



(Approved mark on product is 5 mm x 10 mm.)

B Licensing

FreeRTOS

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Newlib

© Dave Nadler 2017-2020, All Rights Reserved.

Web: <http://www.nadler.com>

email: drn@nadler.com

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Use or redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.
- Use or redistributions of source code must retain ALL ORIGINAL COMMENTS, AND ANY CHANGES MUST BE DOCUMENTED, INCLUDING:
 - Reason for change (purpose)
 - Functional change
 - Date and author contact
- - Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE

LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

CMSIS

Copyright © 2022 ARM Limited. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity. "You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file

distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

RapidJSON

Copyright © 2015 THL A29 Limited, a Tencent company, and Milo Yip. All rights reserved.

If you have downloaded a copy of the RapidJSON binary from Tencent, please note that the RapidJSON binary is licensed under the MIT License.

If you have downloaded a copy of the RapidJSON source code from Tencent, please note that RapidJSON source code is licensed under the MIT License, except for the third-party components listed below which are subject to different license terms. Your integration of RapidJSON into your own projects may require compliance with the MIT License, as well as the other licenses applicable to the third-party components included within RapidJSON. To avoid the problematic JSON license in your own projects, it's sufficient to exclude the bin/jsonchecker/ directory, as it's the only code under the JSON license.

A copy of the MIT License is included in this file.

Other dependencies and licenses:

Open Source Software Licensed Under the BSD License:

The msinttypes r29

Copyright © 2006-2013 Alexander Chemeris

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Open Source Software Licensed Under the JSON License:

json.org

Copyright © 2002 JSON.org
All Rights Reserved.

JSON_checker
Copyright © 2002 JSON.org
All Rights Reserved.

Terms of the JSON License:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Terms of the MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.