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M610 printer

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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.

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Safety and Environment

Please read and understand this manual before using the M610 Label Printer for the first time. This manual describes all of the main functions of the printer.

Precautions

Before using the M610 Label 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

Return

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

Document Conventions

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

- All user actions for a key on the keyboard are indicated by **Bold** text.
- References to menus, windows, and screens are indicated by *Italicized* text.

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1 Introduction

System Specifications

The M610 Label Printer printer has the following specifications:

- Weight 3.10 lb (1.41 kg) (with battery pack and materials)
- Thermal Transfer Print Mechanism 300 dpi
- Optical Registration System for Precise Print Registration
- Elastomeric keyboard
- Removable lithium ion battery, 2700 mAh
- Print Width - 2.0 inches (51 mm) maximum label width
- Custom True Type Fonts
- Maximum print length for labels: 40" (990.6 mm)
- Prints up to 4,500 labels 1" x 2" labels per battery charge

Physical and Environmental Characteristics

The M610 Label Printer printer has the following physical and environmental characteristics:

Physical	U.S. Units	Metric Units
Dimensions	13.0" L x 4.3" W x 4.2" H	330 x 110 x 107 mm
Weight (with battery pack)	3.10 lb.	1.41 kg

Note: The table below refers to the M610 Label Printer printer only. Consumable performance may vary.

Environmental	Operation	Storage
Temperature (Printer) Exposing the printer to direct sunlight is not recommended.	0° to 115° F (-18° to 46° C)	-22° to 140° F (-40° to 70° C)
Relative Humidity (Printer)	20% to 90% (non-condensing)	10% to 90% (non-condensing)
Temperature (AC adapter)	14° to 104° F (-10° to 40° C)	-4° to 185° F (-20° to 85° C)
Relative Humidity (AC adapter)	5% to 95% (non-condensing)	0% to 95% (non-condensing)



CAUTION! Avoid using the printer near water, in direct sunlight, or near a heating device.

Proximity Range for Bluetooth

The M610 Label Printer printer should be within 65 ft (19.8 m) of the device to pick up the Bluetooth signal.

Note: Bluetooth is an optional feature that your site may not have chosen.

Battery



WARNING!

- Do not operate the printer in temperatures above 120° F (49° C) or below 37° F (3° C).
- Do not store the printer in temperatures above 122° F (50° C) or below -14° F (-10° C).
- Do not disassemble or mistreat the battery pack.
- Do not attempt to open, damage, or replace components in the battery pack.
- The battery pack should only be used and charged in a Brady compatible printer.
- Do not allow metal or other conductive materials to touch the battery terminals



WARNING! The battery pack is not intended to be transportable. When not in use, the battery pack should be stored in the M610 Label Printer hard case, M610 Label Printer soft case, or equivalent casing to prevent possible damage to the battery pack.

- Keep the battery pack away from sparks, flames, or other heat sources.
- Keep the battery pack away from water.
- Never lay objects on top of the battery pack.
- Store your battery pack only in a cool, dry place.
- Keep the battery pack out of the reach of children.
- At the end of battery life, replace your old battery only with the Brady M610 Label Printer battery pack.
- The battery pack must be recycled or disposed of properly according to federal, state, and municipal regulations.



CAUTION Risk of Explosion if battery is replaced by incorrect type.
Dispose of used batteries according to instructions.

Printer Settings

Use the keyboard to configure standard settings, such as the language. For an introduction to the keyboard, see ["Using the Keyboard" on page 23](#).

Language

When turning the printer on for the first time, choose the language in which you want all printer menus, functions, and data displayed.

To set the language:

1. Press **FN + SETUP**.
2. Use the navigation keys to move through the menu until **Language** is highlighted.
3. Use the up and down navigation keys to select the desired language.
4. Press **ENTER**  to accept the choice.

Keyboards

Your keyboard configuration depends on the region where you do business. The following are the four configurations currently supported on the M610 printer. See ["Keyboards" on page 88](#) for layout.

Keyboard Type
QWERTY
AZERTY
QWERTZ
Cyrillic

Units of Measure

Set the unit of measure to inches or millimeters.

To set the unit of measure:

1. Press **FN + SETUP**.
2. Use the navigation keys to move through the menu until **Units** is highlighted.
3. Use the up and down navigation keys to select the desired unit.
4. Press **ENTER**  to accept the choice.

Date and Time

Set the printer's clock to the current date and time. Also set the format to use when adding the current date or time to a label.

To set the date and time:

1. Press **FN + SETUP**.
2. Use the navigation keys to move through the menu until **Time/Date** is highlighted.
3. Press **ENTER**  to accept the choice and display the time and date settings.
4. For information on how to use the screen, see ["Settings Screens" on page 22](#). Most of the settings on this screen are self-explanatory, but the following information may be useful.
 - **Display 24 Hour:** Hours are numbered 1-24. Clear this field to use hours 1-12 and AM/PM.
 - **PM:** Not available if *Display 24 Hour* is selected. Clear this check box for AM; set it for PM.
5. Navigate to **OK** and press **ENTER**.
6. Press **ENTER** to dismiss the menu.

Pause/Cut

The Pause/Cut function allows you to pause or not pause printing after each label to cut the label.

To turn on/off Pause/Cut:

1. Press **FN + SETUP**.
2. Use the navigation keys to move through the menu until *Pause/Cut* is highlighted.
3. Use the up and down navigation keys to select On or Off.
4. Press **ENTER** to accept the choice.

Printer Configuration

Use the Config menu to set the brightness, automatic shutdown, and to clean the printer.

To configure the printer:

1. Press **FN + SETUP**.
2. Use the navigation keys to move through the menu until **Config** is highlighted.
3. Press **ENTER** to accept the choice and display the printer configuration settings.
4. For information on how to use the screen, see ["Settings Screens" on page 22](#).
 - **Brightness:** Change the brightness of the screen.
 - **Shut Off Delay:** Set the amount of time, in minutes, that the printer should remain idle before powering off automatically.
 - **No Shut Off (AC):** Select this check box to turn off the automatic shutdown, which is not needed when the printer is plugged in.
 - **Clean Printer:** For more information see ["Cleaning the Printer" on page 74](#).
 - **About:** Displays the installed Firmware and Label Library versions as well as the Bluetooth module.
5. Navigate to **OK** and press **ENTER**.
6. Press **ENTER** to dismiss the menu or use the navigation keys to go to the next setting to configure.

Print History

Use to retain the history of the last ten labels.

Note: Files created with Brady Workstation will not be retained in the print history.

To configure print history:

1. Press **FN + SETUP**.
2. Use the navigation keys to move through the menu until **Print History** is highlighted.
3. Use the up and down navigation keys to select the desired function.
 - **On:** The printer retains a history of the last ten label files used.
 - **Off:** Print history is no longer retained, but any existing history remains.
 - **Clear:** Delete the history.
4. Press **ENTER** to accept the choice.

Font

Choose the font to use when creating labels on the printer. Only one font type can be selected per label file.

To set the font:

1. Press **FN + SETUP**.
2. Use the navigation keys to move through the menu until **Font Settings** is highlighted.
3. Press **ENTER** to accept the choice and display the font settings.
4. For information on how to use the screen, see [“Settings Screens” on page 22](#).
 - **Typeface:** Select the style of lettering. The font types (*Brady Fixed Width* and *Brady Alpine*) give you the option of displaying a zero with or without a slash (Ø or 0) through it. In addition, Chinese, Japanese, and Korean fonts are available. Additional fonts cannot be downloaded to the printer.
 - **Auto:** Automatically sizes the text to fit in the label as you type. The current font size is shown in the upper left of the screen while editing a label.
 - **Font Size:** Change the size of the text. Unavailable if *Auto* is selected.
 - **Attributes:** Select one or more of bold, italic, and underline.
 - **Units:** Choose whether to show the font size in points (a standard unit used in most word processors) or millimeters.
5. Navigate to **OK** and press **ENTER**.
6. Press **backspace**  to dismiss the menu. Alternatively, use the navigation keys to navigate to the next setting that you want to configure.

Note: You can use the FONT key to change the size and attributes for a line of text while editing a label, but the values specified here in the *SETUP* menu will continue to be used as the default on new lines of text and new labels.

Software for Creating Labels

In addition to creating labels on the printer, you can use labeling software. 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. (Wireless printer model only.)
- Use Brady Workstation software on a desktop or laptop computer.

Mobile (Bluetooth Model Only)

Download the Brady Express Labels app from the Apple® App Store or the Google Play™ store.

Desktop

Included with all M610 printers is an insert describing Brady Workstation Basic Design Suite along with a link for download.

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.
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 flash drive that came with the printer.

Connecting the Printer

Connect to the labeling software using a USB cable or with Bluetooth® wireless technology, if you have the Bluetooth printer model.

	Supported Connections
Computer	
Mobile Device	

Bluetooth

This capability is only available on select M610 printer models. Look for the Bluetooth symbol on your printer to know if this feature is supported.

To connect the printer to a mobile device via Bluetooth:

First, on the printer:

1. Make sure the printer is turned on.
2. If you do not see the Bluetooth symbol in the lower right of the display turn Bluetooth on.
 - a. Press **FN + SETUP**. (The SETUP key is in the row of function keys. See [“Printer Components” on page 4.](#))
 - b. Use the navigation keys to move through the menus to *Bluetooth*.
 - c. Navigate to *On*.
 - d. Press the **ENTER** key.

Bluetooth Status Indicators:

The icon will be a steady blue when a mobile device is connected to the printer or gray if there are no connections. Only one device at a time may be connected to the printer.

Disconnect Bluetooth from a device:

1. Press **FN + SETUP**.
2. Use the navigation keys to move through the menus to *Bluetooth*.
3. Navigate to *Forget*.
4. Press the **ENTER** key.

3 General Operation

This chapter provides information on the general operation of the printer.

- Use menus to access printer settings, font, etcetera. [“Menus” on page 21](#)
- Some menu items open a screen with controls to set. [“Settings Screens” on page 22](#)
- Exit a menu or a setting screen without making changes. [“Cancel Functions” on page 22](#)
- Learn the keyboard. [“Using the Keyboard” on page 23](#)
- Create a label. [“Creating a Simple Text Label” on page 27](#)
- How to Print. [“Printing” on page 28](#)
- Preview before printing. [“Preview” on page 28](#)
- Print multiple copies of a label. [“Multiple Print” on page 28](#)
- Access recently used files. [“History” on page 30](#)

	Function	Key	Description
1	Navigation		Navigation keys: - In a line of text, move the cursor left or right a character at a time, or up and down a line at a time. - In menus, move the selection left or right in a primary menus; up or down through a secondary, or sub-menu. - In a dialog box, move up/down or left/right through the fields. In a field with a drop down list, after pressing OK, moves the cursor up or down through the list. - In Print Preview, scrolls left or right through multiple areas on a label.
2	ENTER		- Adds a new blank line to a label. - Accepts menu items and attributes.
3	Print		Prints all labels in a label file.
	Multi-Print		Brings up options to set various print parameters (such as number of copies, print range, and mirror print) before printing.
4	Feed		Feeds the label supply through the printer. (Refer to "Loading Labels" on page 15).
5	Backspace		- Removes characters one at a time, moving to the left. - Backs out of menu options and functions, one screen at a time. Note: Depending on how deep you are into menus and functions, you may have to press Backspace multiple times.
	Clear		Clears data or all menus from the screen.
6	Decimal Point		Adds a decimal point or period (full stop).
7	Move to Next Area		On a multi-area label, moves to the next area from the current area. (Refer to "Go to Label or Area" on page 37)
	Move to Previous Area		In a multi-area label, moves to the previous area from the current area.

	Function	Key	Description
8	Move to Next Label		In a multi-label file, moves to the next label from the current label. (Refer to “Go to Label or Area” on page 37)
	Move to Previous Label		In a multi-label file, moves to the previous label from the current label.
9	Label		Adds, removes, and formats labels in a file. (Refer to “Add Label or Area” on page 36 .)
			Adds a label.
	Area		Adds, removes, and formats areas on a label. (Refer to “Add Label or Area” on page 36 .)
			Adds an area on a label.
10	Shift		When Caps Lock is turned off, used in conjunction with a single letter to enter that letter in uppercase. When Caps Lock is turned on, click shift prior to the letter to make it lowercase.
	Highlight Text		Highlights (selects) text on the editing screen, left or right a character at a time, enabling you to add font attributes (bold, italics, underline) to text already entered. (Refer to “Existing Text” on page 35 .)
	Font Size Increment		On the editing screen, increases or decreases the font size, a point at a time. Hold the [SHIFT] key while pressing the up or down navigation key.
	Print History		Brings up Print History menu. (Refer to “Preview” on page 28 .)
11	Font		Provides font sizes and attributes (such as bold and italics). (Refer to “Formatting Text” on page 33 .)
	Caps Lock		Acts as a toggle to lock text into uppercase as data is entered. Press once to turn Caps Lock on; press again to turn Caps Lock off.

	Function	Key	Description
12	FN		- Used in conjunction with the alternate function (displayed in gold) on some of the keys. Press the FN key, then press the alternate function key. - OR - Hold the FN key while simultaneously pressing the key that has the alternate function. - Used to access special characters on the alphabetical keys.
13	List		Enables you to produce multiple labels with variable information from a single, formatted label (main document) and a structured data source. (Refer to “List (Importing Data)” on page 50.)
	Barcode	+	Places a text string in Barcode format, toggling the barcode on and off. (Refer to “Barcode” on page 44.)
14	Symbol		Accesses the various symbols available on the printer. (Refer to “Symbols” on page 42.)
	Graphics	+	Accesses user supplied graphics loaded onto the printer. (Refer to “Graphics” on page 43.)
15	International	 +	Accesses characters specific to some international alphabets with diacritical and accent marks incorporated into the characters. (Refer to “International Character Sets” on page 44.)
	Setup	+	Defines the printer’s default parameters. (Refer to “Setup” on page 3.)
16	Superscript	+	- Places the next typed character in superscript format, displaying slightly above the line of text. - Will place multiple characters in superscript if the characters are highlighted first. (Refer to “Existing Text” on page 35 for information on highlighting characters.)
	Subscript	+	- Places the next typed character in subscript format, displaying slightly below the line of text. - Will place multiple characters in subscript if the characters are highlighted first. (Refer to “Existing Text” on page 35 for information on highlighting characters.)

	Function	Key	Description
17	Insert Time		Prints the time at the time the printer prints.
	Insert Date		Prints the date at the time the printer prints.
18	Serial		Sets the values for single, multiple, or linked serialization. (Refer to “Serialization (Sequential Data)” on page 47.)
	Preview		Previews the label as it will look when printed. (Refer to “Preview” on page 28.)
19	Label Type		Accesses the different applications/label types installed (i.e., wiremarker, flags, terminal blocks, etc.). (Refer to “Label Types” on page 55.)
	File		Saves, opens, or deletes a label or set of labels. (Refer to “File Management” on page 66.)
20	Power		Turns the printer on and off.

Creating a Simple Text Label

Creating your first label is as easy as starting to type! You don't need special software and you don't have to be connected to a computer to create or print labels.

This section describes the process of creating a text label with minimal formatting, using basic editing techniques, and printing the label. For more detailed information, see [“Editing Labels on the Printer”](#) on page 31.

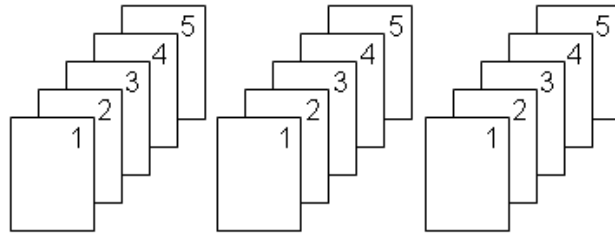
To create a text-only label:

- Be sure the ribbon and labels are loaded and the power is on.
The screen displays an image of a label. The blinking vertical line is the cursor and is the starting point for every label you create using the printer.
- Type the desired text.
The cursor moves across the screen as you enter data. The standard font, as defined in the printer setup, is in effect. See [“Font”](#) on page 10.
When the maximum character limit is reached an error message displays. To remove the error message, press the ENTER key.
- Press the **ENTER** key on the keyboard to start another line of text.
- If you wish to insert, delete, or format text, see [“Editing Text”](#) on page 32 and [“Formatting Text”](#) on page 33.

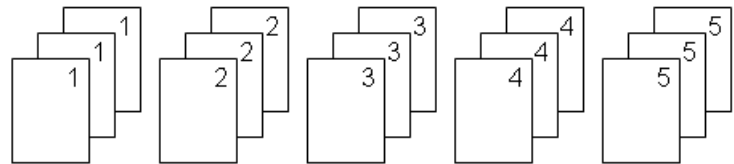
2. Make your selections. For help using the screen, see [“Settings Screens” on page 22.](#)

- **No. of Copies:** Enter the number of copies desired.
- **Print Range:** Select the **From** field and enter the number of the first label to be printed. Select the **To** field and enter the number of the last label to be printed.
- **Collate:** Collation determines the order in which multiple copies of each label will print. For example, suppose you have set the number of copies to three, and you have five labels in the file.

With *Collate* selected, you get three sets of all five labels.



With *Collate* cleared, you get three copies of label 1, then three copies of label 2, and so on.



- **Mirrored Print:** Mirrored print takes all data on a label and flips it to provide a mirror image. Mirroring displays on the printed label only. Mirrored print applies to the entire label; you cannot mirror data in an individual area.

12345

On screen

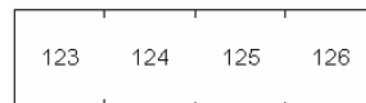
└┐53└┐2

As printed

- **Separator:** To separate different labels on continuous label supply, add a separator by selecting it from the drop down list.



Line Separator



Tic Separator

3. Navigate to **OK** and press **ENTER**.

History

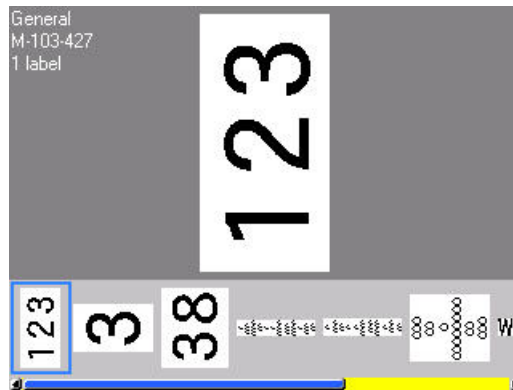
History is a convenient feature that enables easy access to recently used files. When *Print History* is turned on it keeps track of the last 10 label files created and printed from the editor. Labels imported from an external source will not appear in the history. For information on setting up this option, see [“Print History” on page 10](#).

Note: Only available for labels created on the printer.

To use the history:

1. Press **Shift** and **Print**.

A list of previously printed files displays at the bottom of the print screen. You can reprint any of these files.



2. Select the file you want to print.
3. Press **PRINT**.
If the file you want to reprint is incompatible with the currently installed label supply, a message displays indicating such.
4. To correct, install the label supply indicated in the error message.
5. Clear the message, then press **PRINT**.

4 Editing Labels on the Printer

This chapter provides information on the following editing and formatting tasks.

- Changing text that you've already entered. See [“Editing Text” on page 32](#).
- Formatting text. See [“Formatting Text” on page 33](#).
- Including multiple labels and multiple areas on a label. See [“Labels and Areas” on page 36](#).
- Navigating labels. See [“Go to Label or Area” on page 37](#).
- Adding symbols. See [“Symbols” on page 42](#).
- Adding graphics. See [“Graphics” on page 43](#).
- Adding the date and time. See [“Date and Time” on page 44](#).
- Adding international characters. [“International Character Sets” on page 44](#).
- Adding barcodes. See [“Barcode” on page 44](#).
- Adding sequential data. See [“Serialization \(Sequential Data\)” on page 47](#).
- Adding lists. [“List \(Importing Data\)” on page 50](#).

For information about creating labels for specific applications, such as pipemarkers or safety labels, see [“Label Types” on page 55](#).

Editing Text

Positioning the Cursor

The cursor is a vertical line that marks the position on the label where text or other data will be entered. See [“Screen Components” on page 20](#).

To position the cursor when editing text use the navigation keys. See [“Go to Label or Area” on page 37](#).

Inserting Text

To insert additional text within a line of text:

1. Position the cursor at the point where text should be inserted.
2. Enter the text. Existing data positioned to the right of the cursor moves progressively to the right to make room for the inserted text.
 - If a fixed font size is selected, when the end of the line is reached, no more data can be inserted. To add more data, either press **ENTER** to start another line or decrease the size of the font. (To set default font type and size see, [“Font” on page 10](#). To change the font attributes or size for a line of text, see [“Font Size” on page 33](#) or [“Font Attributes” on page 34](#).)
 - If the font size is set to *Auto*, as more data is added to a line of text, the font size automatically decreases a point at a time until the smallest font size is reached. When the maximum character limit is reached an error message displays. To remove the error message, press **ENTER**.
 - Press **ENTER** to start another line of text.

Deleting Text

To remove characters one at a time:

1. Position the cursor to the right of the rightmost character that you want to delete. See [“Positioning the Cursor” on page 32](#).
2. Press the **Backspace** key repeatedly until all desired characters are removed.

To clear all the data on a label or labels:

1. Press **FN + CLEAR**. You are presented with the following options (the first two are enabled only if you have multiple areas).

Clear Option	Definition
Clear Area Data	Clears data only from an area, but does not remove the area formats or the area itself.
Clear Label Data	Clears all data on the label, but leaves the formatting in place (example: font size, number of areas, etcetera).
Clear All	Removes all labels created. You are returned to one single label in General Mode, with all default settings reapplied.

2. Select the desired option or cancel the deletion by pressing the Backspace key.
3. If you selected *Clear All*, a confirmation message displays. Navigate to **Yes** in the message and press **ENTER**.

Default Formatting

Default Settings

Default settings are determined by the printer for the installed label supply. When the label supply or application label type is reloaded, it will return to these settings. The font and its attributes can also be set as a default using Font Settings.

Formatting Text

Character and line formats called attributes change the appearance of the fonts, such as size, weight (bold), angle (italics), underline, and expanding or condensing the text. Different formatting features can be found under the Font, Label, and Area functions..

Typeface

The typeface (font style) is determined in the setup menu and cannot be changed on individual labels or lines. See [“Font” on page 10](#). Fonts cannot be downloaded to the printer.

Font Size

Font size applies to an entire line of data at a time and is measured in point size or millimeters, as determined in the Setup function.

If the size is changed before the data is entered, all the data in the current and subsequent lines takes on the new font size until font size is changed again. Changing the font size on pre-entered data changes the size on the entire line, regardless of where the cursor is in the line. However, the font size will not change on subsequent lines of pre-entered data. You must change the font size on each individual line of pre-entered data.

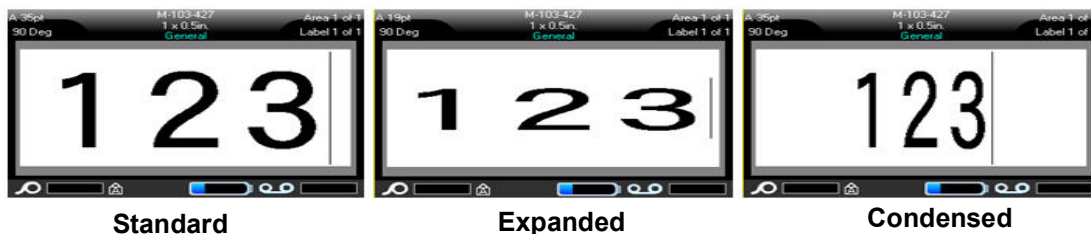
To change the size of the chosen font:

1. Position the cursor on the line of text that you want to resize. See [“Positioning the Cursor” on page 32](#).
2. Press **FONT**.
A pop-up menu displays the available font sizes for the label supply installed.
3. Navigate through the **Size** menu to select the desired font size.
 - **Custom:** To manually enter a size, select **Custom**. The minimum/maximum range is shown below the type-in field. If you exceed these values an error will display.

- **Auto:** To have text automatically size as you type, select **Auto**. Autosize starts with the largest font size that fits on the label. When a line of text reaches the edge of a label it scales downward until you press ENTER or the minimum font size is reached. When working with autosize and multiple lines of text, all lines on a label maintain the same size. Autosize is the default setting for all labels and is displayed as an 'A' in the upper left corner of the screen.
4. Press **ENTER** after selecting or inputting the size.

Font Attributes

Font attributes (**bold**, *italic*, underline, expanded, or condensed) can be applied to an entire line of text or to individual characters within a line of text. The attributes can be turned on before entering the text or after the text has already been entered.



New Text

To turn an attribute on before entering the text:

1. Position the cursor where the attribute should take affect.
2. Press **FONT**.
3. Select the desired attribute, then select **ON** (bold, italics, and underline) or the percentage of expanded or condensed text.
4. Enter the text to be affected by the attribute.
5. If you want to continue typing without the attribute, press **FONT** again and turn the attribute off. For expanded or condensed text, change the percentage to 100% to return to normal.

When applying the attribute to text as it is being typed, the attribute stays on until it is turned off or until you move to a new area or label.

Existing Text

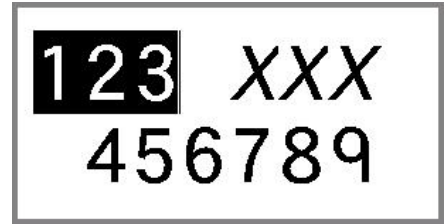
To apply an attribute to previously entered text:

1. Select the text to which you want to apply the attribute.
 - Hold **SHIFT** while moving the cursor with the navigation keys across the characters to which the attribute will be applied.

Note: Highlighting works on a line-by-line basis. You cannot highlight more than one line at a time.

2. Press **FONT**.
3. Select the attribute, then select *On* (bold, italics, and underline) or the percentage of expanded or condensed text. All highlighted text displays the attribute.

To remove the highlighting from the characters, press any navigation key.



To remove an attribute that was previously applied to some text:

Repeat the steps for applying the attribute but select *Off* instead.

Superscript and Subscript

Superscript places a character slightly above the line of type and subscript places a character slightly below the line of type. The super- or subscript character also displays slightly smaller than the normal line of type. Super- and subscript functions are on the keyboard. Pressing either key applies that format to the next character typed. It immediately turns off after the character is entered and you are returned to the normal line of type.

To apply superscript or subscript to a single character:

1. Position the cursor in the line of text where the superscript or subscript character will display.
2. Press **FN + SUP** (on the Q key) for superscript or **FN + SUB** (on the W key) for subscript.
3. Type the character to be displayed in superscript or subscript.

Only the character typed directly after pressing the superscript or subscript key is displayed in super- or subscript.

To apply superscript or subscript to multiple characters:

1. Type the characters that you want to put into super- or subscript.
2. Position the cursor at the beginning of the character string that you want to display in super- or subscript.
3. Hold **SHIFT** while moving the cursor with the navigation keys across the characters that will display in super- or subscript. This highlights the characters.
4. Press **FN + SUP** (on the Q key) for superscript or **FN + SUB** (on the W key) for subscript.

Labels and Areas

Multiple labels can be created in one label file, with each new label being inserted immediately after the current label.

Areas are used to apply different formatting (such as justification, rotation, and frames) to different parts of a single label. Areas can only be added when using a continuous label supply set to auto length mode (see [“Label Length” on page 36](#)). However, area formatting can be applied to pre-sized labels that have pre-defined areas.

Note: You cannot set a fixed length of an area on a label that has multiple areas. The size of the area is based on the amount of data entered and the font size of that data.

Add Label or Area

To add a label to a label file:

1. Press **LABEL**.
2. Choose *Add*.

The new label is inserted immediately after the current label and its number is reflected in the upper right corner of the screen. Each label added will be of the same label type.

If the existing label had multiple areas, the added label has the same number of areas and the font size from the first line of data in each area is retained.

To add an area to a single label:

1. Press **FN** and **AREA**.
2. Choose *Add*.

A new area is inserted immediately after the current area and its number is reflected in the upper right corner of the screen. The font size used on the first line of the previous area carries over to the new area.

Only the current area displays on the editing screen. Use the print preview to view the entire label. See [“Preview” on page 28](#). To navigate between areas, see [“Go to Label or Area” on page 37](#)

Note: Area can only be used on continuous label supply.

Label Length

Auto length is the default for continuous label supplies. With the length set to *Auto*, the label will be as long as it needs to be to accommodate the entered data, up to a maximum of 40 inches. You can, however, set a fixed length for a label. A different length can be set for each label in a file.

Note: To change the unit of measure for the length see [“Units of Measure” on page 8](#) for more information.

To change the length of the label:

1. Press the **LABEL** key.
2. Select **Length**, then **Fixed**.

Note: *Length* is not available if you are using a pre-sized label supply.

3. Enter the desired length of the label into the field.
4. Press **ENTER**.

Note: The minimum and maximum values for the label supply installed are shown to the left and right of the type-in field.

Go to Label or Area

To move to another label:

1. Press the **LABEL** key.
2. Select *Go to*, then enter the number of the label desired.
3. Press **ENTER**.

To move to another area on a label with multiple areas:

Note: Areas can only be used on continuous label supply.

1. Press **FN** and **AREA** keys.
2. Select *Go to*, then enter the number of the area desired.
3. Press **ENTER**.

Shortcut Keys

- Press **NEXT LABEL** to go to the next label in the file.
- Press **FN** and **PREV LABEL** to go to the previous label in the file.
- Press **NEXT AREA** to move to the next area within a label with multiple areas configured.
- Press **FN** and **PREV AREA** to move to the previous area within a label with multiple areas configured.
- Press **FN** and the **left navigation key** to move to the previous label or area within a label with multiple areas configured or **FN** and the **right navigation key** to move to the next label or area.

Shortcuts on the Screen

Scroll through labels on the screen.

- Use the up and down arrows to access the next or previous label in the sequence.
- Use the right and left arrows to access the next area in the sequence.

If there are not multiple areas on a label or multiple labels in a file, the arrows are grayed out.



Delete Label or Area

Deleting a label removes all data and formatting on that particular label. If multiple areas exist on one label, when that label is deleted all the areas associated with that one label are also deleted. Deleting an area removes it from the current label; it does not delete that area on all labels.

To delete a label or area:

1. Navigate to the label or area you want to delete. See [“Go to Label or Area” on page 37](#).
2. Press **LABEL** if deleting a label or press **FN** and **AREA** if deleting an area.
3. Choose **Delete**.
4. Select **Yes** on the confirmation message.

Duplicate Label or Area

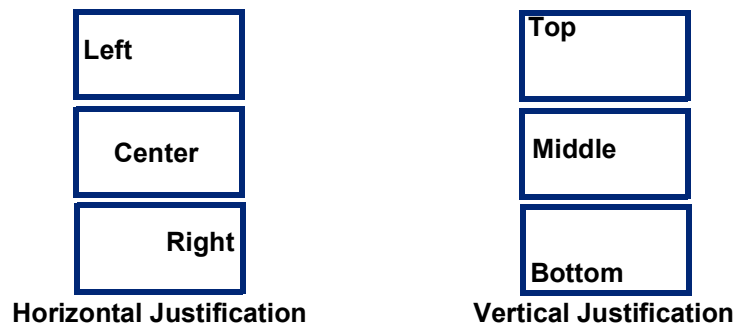
Duplicating a label retains all formatting and content of the label being duplicated. If multiple areas exist on the label, they will also exist on the duplicated label.

To duplicate a label:

1. Navigate to the label to duplicate. See [“Go to Label or Area” on page 37](#).
2. Press **LABEL**.
3. Select *Dup*.

Justification

Justification refers to the alignment of data between boundaries (margins) on a label or in an area. There are two types of justification: horizontal and vertical. Horizontal justification (H. Justify) aligns data between the left and right boundaries of a label or area, while Vertical justification (V. Justify) aligns data between the top and bottom boundaries of a label or area. Justification is applied to an area or a label. It cannot be applied line-by-line.



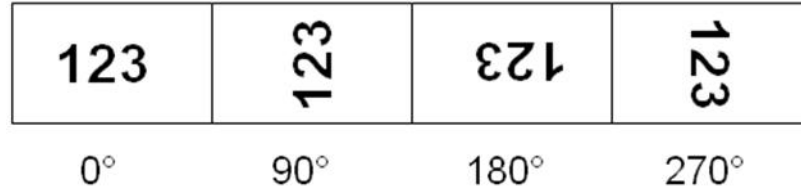
To apply justification:

1. Navigate to the label or area where justification is to be applied. See [“Go to Label or Area” on page 37](#).
2. Open the label or area menu: press **LABEL**, or **FN + AREA**.
3. Choose *H. Justify* or *V. Justify*.
4. Choose the horizontal or vertical justification desired.

Every line of data on the label or in an area is justified according to the option selected. When adding a new label, the justification maintains the current justification settings until it is changed. Different justification can be applied to individual labels in a multi-label file or different areas on one label.

Rotation

Rotation flips the data on a label or in an area, counter-clockwise, at 90° increments. Rotation affects all data on a label or in an area.



Note: If rotation is applied individually to areas, you cannot apply rotation to the entire label.

Data cannot be rotated on a line-by-line basis. When adding a new area or label, the rotation is the same as the previous area or label.

To rotate data:

1. Navigate to the label or area where rotation will take affect. See [“Go to Label or Area” on page 37](#).
2. Open the label or area menu: press **LABEL** or **FN + AREA**.
3. Choose *Rotate* and select the degree of rotation.

If the font size is set to *Auto*, rotated data is automatically sized to accommodate the new label orientation. However, if using a fixed font size, the rotated data may not fit on the label. If this occurs, an error message displays indicating rotated text will not fit. The Rotate function is canceled and data is not rotated.

Rotation is not reflected on the editing screen, although the degree of rotation is displayed in the upper left corner of the screen. To view the actual rotation use [“Preview” on page 28](#).

Note: The printer automatically sets the rotation based on the installed label supply. If you install a different label supply the rotation will automatically revert to the default setting for that label supply type.

Frame

A frame (border) can be added to an area or a label, but not to a line of text. You can have a different frame, or no frame, on individual labels in a multi-label file. You can also place a frame on a label that contains area frames.

Note: Frames can only be placed on continuous labels, not pre-sized labels.

To add a frame:

1. Navigate to the label or area where you want to place a frame. See [“Go to Label or Area” on page 37](#).
2. Open the label or area menu: press **LABEL** or **FN + AREA**.

Reverse

The Reverse function switches the foreground and background colors of data on a label, based on the color of ribbon and label supply installed. For instance, black lettering on a yellow background, if reversed, would print yellow lettering on a black background.



You can apply reverse formatting to areas or labels. When adding another area or label, the reverse function status carries over.

Note: This feature is only available when continuous supply is installed in the printer. Reverse cannot be applied to pre-sized label supply.

To apply or remove Reverse formatting to a label or area:

1. Open the label or area menu: press **LABEL** or **FN + AREA**.
2. Navigate to *Reverse* and choose either *On* or *Off*.

Vertical Text

In vertical text, each character drops down a line below the preceding character.

Example: The word “WIRE” as vertical text displays as such:

W
I
R
E

Vertical text can only be applied to an area or a label; it cannot be applied line-by-line.

To format text vertically:

1. Navigate to the label or area where you want to display text vertically. See [“Go to Label or Area” on page 37](#).
2. Open the label or area menu: press **LABEL** or **FN + AREA**.
3. Navigate to *Vertical* then choose *On*. The text displays vertically.

To remove the vertical text option, placing text in normal, horizontal format:

1. Navigate to the label or area displaying data as vertical text.
2. Open the label or area menu: press **LABEL**, or **FN + AREA**.
3. Navigate to *Vertical* then choose *Off*.

The text realigns according to predefined formats.

Multiple Vertical Lines of Text

If more than one line of text is present, subsequent lines of text display vertically to the right of the first line of text.

Note: The horizontal and vertical justification set before applying vertical formatting is carried over to the vertical lines of text.

1 2 3
4 5 6 7

Multiple lines, before applying Vertical text (autosized)

1 4
2 5
3 6
7

Multiple lines, after applying Vertical text (autosized)

Errors with Vertical Text

If a barcode is in the line of text to be placed vertically, or if the height of the label cannot accommodate the vertical placement of text, an error message displays. Press **ENTER** to clear the error message. The editor then displays the text in its original format, without applying the vertical text option.

Symbols

The M610 Label Printer contains hundreds of symbols that can be used for a variety of applications. The symbol categories available are:

Arrows	Data Communications (Datacomm)	Electrical	Exit	Fire	First Aid	CLP/GHS
Greek	Home Electrical	HSID	International	Laboratory	Mandatory	Miscellaneous
Packaging	Personal Protective Equipment (PPE)	Prohibition	Public Information	Safety	Warning	WHMIS

To add a symbol to the label:

1. Position the cursor at the point where you want the symbol to display.
2. Press **SYMBOL**.
3. Select the symbol category.

A symbols grid displays. Some of the grids are lengthy and may require scrolling to view all of the symbols.

4. Select the desired symbol.
5. Press **ENTER**.

The symbol displays with the same font size that is currently in use.

To remove a symbol from the label:

1. Position the cursor to the right of the symbol.
2. Press the **Backspace** key.

Graphics

Graphics are symbols, logos, or other artwork supplied from an outside source, such as a computer. These graphics must be bitmap files (*.bmp) and can only be black and white. The printer will automatically resize the graphic, but it is important to keep the graphic size approximate to the printed output (about 2-inch x 2-inch). The imported graphic file size cannot exceed 40KB.

Import Graphics

Graphics are added to the printer through the Import function. This function displays in the File menu if an external storage device, such as a USB drive, is attached.

To import graphics to the printer:

1. Download a graphic from the computer to a USB drive.
2. Plug the USB drive containing the graphic into the printer.
3. Press **FN + FILE**.
4. Select *Import*.
5. Select *Graphics*, then choose the graphic and press **ENTER**.

Graphic files (.bmp) are stored on the printer in a specific folder used by the Graphics function. This folder is unavailable to the user and therefore, when importing a graphic, the destination screen does not display. Unlike symbols, imported graphics are not categorized. However, the most recently used graphic displays first in the window.

For a more comprehensive discussion of importing files, refer to [“Using Files from an External Source” on page 70](#).

Add a Graphic

To add a personal graphic to your label:

1. Position the cursor at the point where you want the graphic to display.
2. Press **FN** and **GRAPHICS** to view the graphics saved to the printer.
The graphics grid displays the most recently used graphic first.
3. Select the desired graphic and press **ENTER**.

Note: The graphic displays at the same size as the font.

Date and Time

The printer inserts the current date or time using the current system clock value at the time of printing and the date and time format defined in the Setup function. (For more information, see [“Date and Time” on page 9.](#))

To insert the current date or time on each label:

1. Position the cursor at the point on the label where you want the date or time to be inserted.
2. Press **FN + DATE** or **TIME**.

The date or time displays the format on the editing screen (for example, mm/dd/yy or HH:MM). To view the actual date or time, use print preview (see [“Preview” on page 28.](#))

International Character Sets

The M610 Label Printer contains hundreds of internationally recognized characters, complete with diacritical marks.

To add an international character to your label:

1. Position the cursor at the point where you want the international character to be placed.
2. Press the International key  to open the list of characters.
3. Scroll through the list until the desired character is found or press the letter on the keyboard to jump to that section of the alphabet.
4. Drag the scroll bar on the screen to scroll through the character list.
5. Navigate to the character and press **ENTER**.

The character displays with the same font size that is currently in use.

Barcode

Barcodes are generated following industry standard symbology. A typical barcode is composed of vertical lines (bars) and spaces of varying thickness, depending on the text entered. It can also include “human readable text.” Human readable text is the data entered that makes up the barcode. Because you cannot read bars and spaces, you can have the actual text that makes up the barcode display.

Barcode elements support vertical resizing (height) only. The width of the barcode is based on data and symbology and cannot be changed. However, some barcode widths (depending on symbology used) can be altered by changing the ratio and width of the bar code.

Barcode data can be displayed in the same line as other data (text or symbols). It is not necessary to have a separate area for the barcode. Barcode data on the same line as text will not overwrite the text already on the line but will be placed next to it. Any text in the same line as the barcode will align on the baseline with the barcode.

Barcode Settings

Before entering a barcode, determine the barcode symbology and attributes to use. Not all attributes are applicable to all barcode symbology types so they will either be grayed out or not shown.

Note: Additional barcode types are supported in Brady Workstation software and the Brady Express Labels app.

To access the barcode settings:

1. Press **LABEL**.
2. Navigate to and select **Barcode**. (For navigation help see [“Menus” on page 21.](#))
3. Input the desired settings. For information on how to use the screen, see [“Settings Screens” on page 22.](#)
 - **Symbology:** The printer supports these barcode symbology types:
 - UPC-A
 - UPC-E
 - EAN 8
 - EAN 13
 - Code 39
 - Code 128
 - Interleaved 2 of 5
 - Data Matrix
 - QR Code
 - **Height (or Max. Height):** The height of a barcode can vary. For most symbologies you can specify an exact height with a minimum of 0.1 inch (2.54 mm). For symbologies that are composed of tiny squares, such as Datamatrix, the maximum height is specified.
 - **Bar Width:** This changes the thickness of the bars and spaces within the barcode, which in turn lengthens or shortens the barcode. Set the width, in pixels (dots), of the narrowest bar of a barcode. (Not available for some symbologies such as QR and Datamatrix.)
 - **Ratio:** The ratio of a barcode is the relationship of narrow elements to wide elements, where elements are the bars and spaces.
 - **Human Readable:** Human readable text is the data entered that makes up the barcode. Because you cannot read bars and spaces, you can display the actual text that makes up the barcode. Human Readable text can be placed above or below the barcode symbology, or you can choose to not display it.
If you choose to display the human readable text, a field for the text size becomes available. Choose a size for the human readable barcode text.
 - **Check Digit:** A check digit is used for error detection in a barcode. It consists of a single digit computed from the other digits in the barcode. A check mark in the *Check Digit* box turns the function on.
4. When finished, press **ENTER**.

- In Backbone serialization, the left-most area on each strip prints with two numbers. The first number is left-justified; the second number is right-justified. All other areas print with one right-justified number.

2 Pair: None

2 Pair: Horizontal

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

2 Pair: Backbone

1	2	4	6	8	10	12	14	16	18	20	22	24
25	26	28	30	32	34	36	38	40	42	44	46	48

- In the *Start Value* field (except when "None" is selected in the *Sequence Type* field), enter the first number of the sequence.
- In the *# of Strips* field, enter the number of strips (labels) to be created in the block configuration chosen.

Note: If serializing the data, additional strips will continue the serialization from the last number of the previous strip. Example: When requesting two strips of a 2-pair horizontal configuration, the first strip will contain values 1-24, the second strip will contain numbers 25-48.

- When finished, navigate to *OK* and press **ENTER**.

Vial

The *Vial* label type can be used with any label supply except self-laminating or Permasleeve. If either of these two types of label supply is installed, the *Vial* label type does not display. The *Vial* label type fixes the length of the label based on the vial size selected and formats the data horizontally or vertically.

To create a vial label:

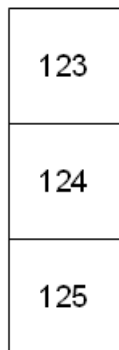
- Press **LABEL TYPE**.
- Select *Vial*, then select the vial size.
The vial size determines the size of the label unless you select Auto, in which case the label size automatically adjusts to the contents.
- Enter the data to display on the vial label.

Breaker Box

Breakers are usually arranged in two columns or along one row, depending on geographic regions. The breaker positions are numbered left-to-right or top-to-bottom, depending on label orientation. This numbering system is universal across various competing manufacturers of breaker panels.

To create breaker box labels:

1. Press **LABEL TYPE**.
2. Select *Breaker Box*.
3. In the *Spacing* field, enter the **width** of a standard breaker.
4. In the *Number of Breakers* field, enter the **number** of breakers to be labeled.
This produces one continuous strip, separated by the *Spacing* width vertically aligned for US breaker boxes or horizontally aligned for EU breaker boxes.
5. If the breakers contain different pole counts, place a check mark in the option box for *Variable Pole Count*.
The printer uses the pole count to calculate the distance between breakers to ensure accurate spacing. A single-pole breaker takes up only one space in the electrical panel, while a double-pole takes up two.
6. In the *Separator* list, select *None*, *Line*, *Tic*, or *All Borders* to mark the division between labels.
7. In the *Orientation* list, select either *Vertical* or *Horizontal*.



Line Separator, Vertical Orientation



Tic Separator, Horizontal Orientation

8. When finished, navigate to *OK* and press **ENTER**.
If *Variable Pole Count* is selected, the breaker box pole count screen displays. The number of poles for each breaker defaults to 1.
9. For each breaker, enter the number of poles.
10. When finished, navigate to *OK* and press **ENTER**.
11. On the editing screen, enter the unique data that will display on the label for each breaker.
Each breaker is consigned to a single label, the number of labels designated by the number of breakers defined. The number of labels in the upper right portion of the screen. Use the *NEXT LABEL* and *FN + PREV LABEL* keys to move to the different labels.
12. Press **FN + PREVIEW** to view the labels before printing.

6 File Management

A single label or a number of labels can be saved as a file, to be opened and reused at a later date. The following are guidelines when creating a label file:

- Labels using continuous and pre-sized label supplies cannot be combined in the same label file. All labels in a label file must use the same label part number.
- Serialized labels can be combined in a file with other non-serialized labels.

Saving Labels

You can save labels as internal or external files. Internal files are labels stored directly on the printer. External files are labels stored on some external device, such as a USB drive.

File Naming Standards

To create a file on the M610 Label Printer printer, the file must be given a name. Names can be up to 20 characters long and can consist of letters, numbers, but not spaces.

When creating files, remember this rule: You cannot have two files with the same name. If you do, the most recent file with the name will overwrite the previous file with that name. A one-character difference in the name creates a different file and will not overwrite a previous file.

Folders

To better organize your data, place similar label files into folders. Similar files could consist of all labels for a specific project, or all files that use the same label supply, or specific label applications. Instructions on creating or selecting a folder are within the instructions for saving a file below.

Saving a File

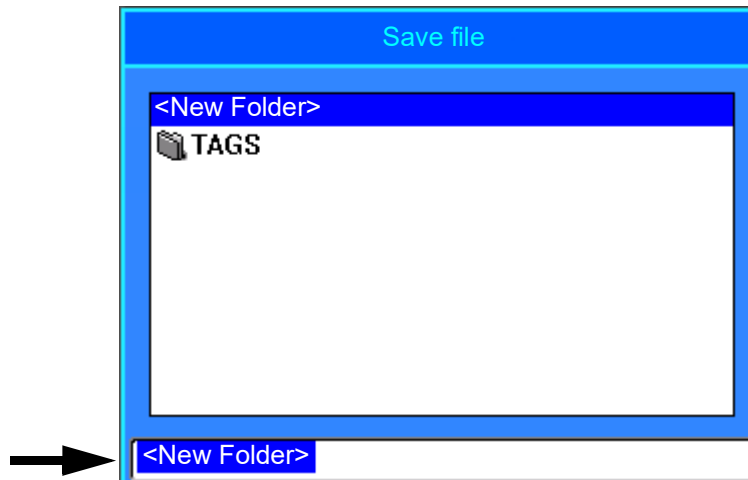
To save labels as a file:

1. Press **FN + FILE**.
2. Select **Save**.

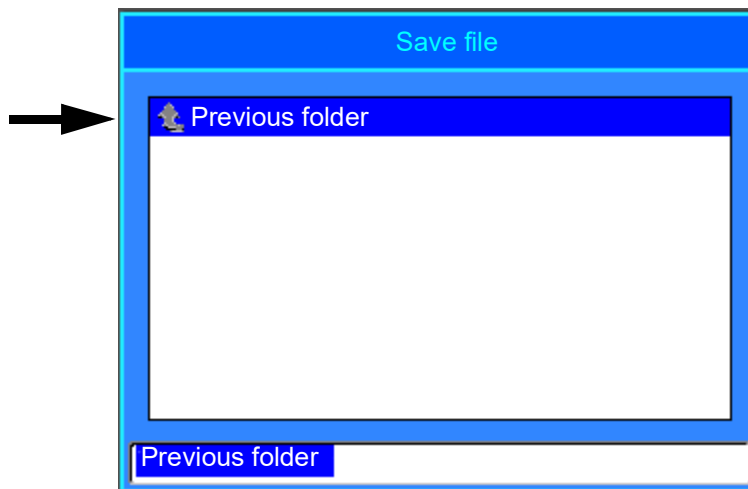
The memory location dialog box displays **ONLY** if an external source is attached to the printer.

3. If a USB drive is attached to the printer, the printer asks where to save the file. Use *Internal* to save directly to the printer or *External* to save to the attached external source.

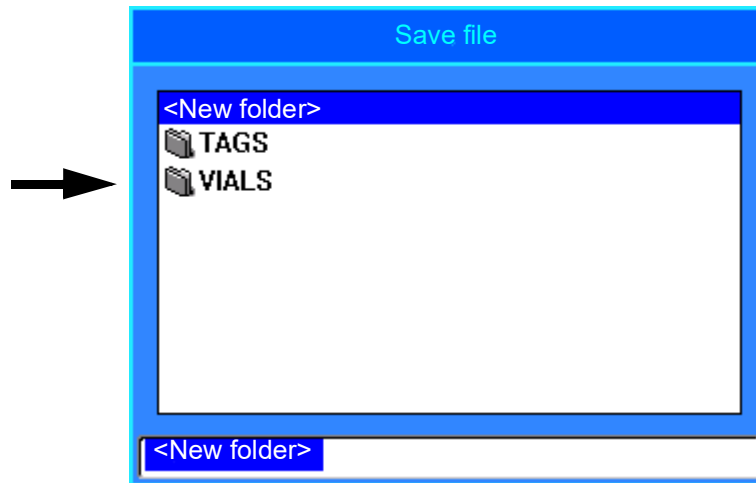
4. The *Save file* screen opens. At this point you can create a new folder to place the file in, select an existing folder, or save the file without organizing it into a folder.



- **To save the file without putting it in a folder:**
 - a. With *<New Folder>* highlighted in the text entry box, **type a name**.
 - b. Press **ENTER**.
 - c. Proceed to step 5.
- **To create a folder:**
 - a. With *<New Folder>* highlighted in the text entry box, press **ENTER**.
 - b. **Type a name** for the folder and navigate to *OK* and press **ENTER**.
 - c. Select *Previous Folder* at the top of the screen.



- d. Select the folder that you just created.



- e. **Type a name** for the file and press **ENTER**. Proceed to step 5.
- **To choose an existing folder:**
 - a. Navigate to the desired folder and press **ENTER**.
 - b. **Type a name** for the file and press **ENTER**.
5. If the name already exists, a message displays asking if you want to overwrite the existing file with that name.
- To overwrite the existing file, select *Yes*.
 - To go back and type a different file name, select *No*.

When the file is saved, you are returned to the editing screen with the saved file still displayed. If you want to remove the saved file from the screen, press **FN + CLEAR**. This clears the data from the editor so you can work on a different label, but does not delete the saved file. For more about the operation of the CLEAR key see [“Deleting Text” on page 32](#).

Opening a File

To open a saved file:

1. Press **FN + FILE**.
2. Choose *Open*.
3. Select the location of the file (Internal or External).
A list of previously saved folders and files displays.
4. If the file is stored in a folder, navigate to the folder and press **ENTER** to open it.
5. Using the navigation keys, highlight the file to open and press **ENTER**.

Only one file can be displayed on the screen at a time. When opening a saved file, if the editing screen contains other data, you are prompted to save the data before the screen is cleared. If you decide to save the displayed data, the Save function is invoked and you are allowed to give the data a file name before the requested file to open is displayed in the editor.

When opening a file, if the stored data does not fit on the installed label supply, an error message displays. You must use a label supply that can accommodate the data in the file being opened.

Deleting a File

The editor does not have to be cleared before deleting a file. A file can be deleted with other data still on the screen.

To delete a previously saved file:

1. Press **FN + FILE**.
2. Choose *Delete*.
3. Select the type of file you want to delete: *Label*, *List*, or *Graphics*.
4. Select the location of the file (*Internal* or *External*).
A list of previously saved folders and files displays.
5. Select the folder containing the file to delete (if applicable).
6. Using the navigation keys, highlight the file to delete.
A delete confirmation message displays.
7. Select *Yes* to accept the deletion.

IMPORTANT! A deleted file is no longer available for use.

Note: Folders are deleted the same way as files, only the folders must be empty in order to delete.

Using Files from an External Source

You can use labels, csv lists, or bmp graphics created on a computer or a different M610 Label Printer and stored on a USB drive. Labels can be imported from a USB drive to the printer or you can open the label file directly from the USB drive. Lists and graphics, however, must be imported to the printer before they can be used.

Note: Software files cannot be imported to the printer.

Importing a File

To import a file created and stored on an external device:

1. Attach the external device to the printer.
2. Press **FN + File**.
3. Select *Import*, which is only displayed if the external device is attached.
4. Select the type of file to import: *Label*, *List*, or *Graphics*.
5. Using folder and file navigation techniques, select the file to import from the external device and press **ENTER**.

For lists and graphics, the import is complete.

6. If importing a label file, on the *Select Destination* screen select the destination folder on the printer where you want to store the imported file and press **ENTER**.

Label files can be stored in any folder on the printer. However, list files (.csv) and graphic files (.bmp) are stored in specific folders used by the List and Graphics functions. These folders are unavailable to the user. When importing a list or a graphic, the destination screen does not display.

Imported files retain the original file name the first time they are imported. If imported more than once, " - Copy [#]" is attached to the file name (where # is a number indicating how many times the file has been imported). This prevents a file from overwriting another file with the same name.

You can open an imported Label file through the File/Open function (see [“Opening a File” on page 69](#)).

List (.csv) files can be opened through the Merge feature of the List function.

Graphics (.bmp) files can be viewed and accessed through the Graphics function.

Exporting a File

Files created on the printer, or previously imported from an external device, can in turn be exported back to an external device.

To export a file currently on the printer to an external device:

1. First, attach the external device to the printer.
2. Press **FN + File**.
3. Select *Export*.
4. Select the type of file to export: *Label*, *List*, or *Graphics*.
5. Using folder and file navigation techniques, select the file to export to the external device.

6. On the *Select Destination* screen, navigate to the destination folder where you want to store the exported file on the external device.
7. Enter the name for the file to export, then press **ENTER**.

7 Maintenance

Upgrading Firmware

Upgrades to firmware are available online or through Brady Workstation desktop software.



CAUTION! The printer must be plugged in to an AC outlet during a firmware upgrade. Do not interrupt printer power during an upgrade.

Upgrading using Brady Workstation

1. Using the USB cord, 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.

Upgrading using a USB Drive

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.
3. Find the most recent M610 Label Printer firmware upgrade.
4. Download the firmware.
5. Save the downloaded file to a USB drive.
6. Connect the USB drive to the USB port on the printer.
The printer recognizes the upgrade file and displays a message on the screen.
7. Follow the instructions on the screen.
When the upgrade is complete, the printer restarts.

Upgrading using a Computer Connection

1. Use the USB cable to connect the printer to a computer with an Internet connection.
2. On a computer, go to the technical support website for your region. See [“Technical Support and Registration” on page iv](#).
3. Find the most recent M610 Label Printer firmware upgrade.
4. Download and run the .msi file.
5. After the installation is complete, open the Start menu on the computer and go to Brady Corp/M610 Firmware Upgrade Utility.
6. Follow the instructions on the screen.
When the upgrade is complete, the printer restarts.

Updating Printer Label Library Values

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

Update these 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 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.

Upgrades to Printer Label Library values are available online or through Brady Workstation desktop software.

To upgrade from Brady Workstation:

1. Using the USB cord, 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.

To update values using a file online:

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 M610 Label Printer database (Printer Label Library) update.
3. Download the database update.
4. Save the downloaded file to a USB drive.
5. Connect the USB drive to a USB port on the printer.
6. Select the box for each file to be upgraded. Select the box again to clear the selection.
7. Choose **Upgrade** on the display or press **Enter** on the keyboard.
8. Follow the instructions on the screen to complete the import. The new values take effect as soon as the import completes.
9. Cycle power on the printer.

Cleaning the Printer

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

Screen

To clean the screen:

1. Lightly moisten a soft (non-scratching) cloth with Isopropyl alcohol or use a pre-moistened swab from the Brady Cleaning Kit PCK-6.
2. Gently wipe the display screen until clean.
3. Remove excess Isopropyl alcohol with a dry, soft (non-scratching) cloth.

Cleaning Internal Components

Use a Brady Cleaning Kit PCK-5, disposable cleaning card (purchased separately) to safely and effectively remove all dirt, ribbon ink residue, adhesive, and other contaminants from the thermal print head, platen roller, and paper path.

To clean the printer:

1. Remove the ribbon and label supply.
2. Press **FN + SETUP**.
3. Navigate to **Config**.
4. Select *Clean Printer* followed by pressing **ENTER**.
5. Close the lock lever.
6. Set the media guide to the widest position.
7. Saturate a cleaning card with Isopropyl alcohol.
8. Insert the cleaning card into the label path until it stops against the print head and platen roller.
9. Press **ENTER** to initiate the cleaning routine.
10. After cleaning is complete, remove printer cleaning card and dispose of it properly.

IMPORTANT! Allow 15 seconds for the components to dry before reloading labels and the ribbon.

8 Troubleshooting

Use the following table to troubleshoot and diagnose possible performance problems with your printer. If the corrective action suggested does not work, contact Brady's Technical Support Group. See ["Technical Support and Registration" on page iv](#).

Label Types & Label Supply

Some label types require specific label supplies. Additionally, some label supplies require specific ribbons. If the label supply installed in the printer is incompatible with the installed ribbon, an error can occur. Check your local Brady website for ribbon and label supply compatibility.

Label Type	Label Supply
General	Continuous & Pre-Sized
Wire Marker	Continuous & Pre-Sized
Flags	Continuous & Pre-Sized
Terminal Block, Patch Panel, 66-Block	Continuous Only
Face Plate	Continuous Only
110-Block, Bix Block	Continuous Only
Vial	Continuous Only
DesiStrip	Continuous Only
Breaker Box	Continuous Only

Error Messages

Message	Cause	Corrective Action
"Barcode exceeds height of installed labels."	The barcode is too large for the label.	Change the height of the barcode. See "Barcode Settings" on page 45.
"Barcode exceeds width of installed labels."	The barcode is too large for the label.	Reset rotation in Label > Rotate menu, see "Rotation" on page 39 or install wider labels.
"Cut sensed"	Label material is stuck in the cutter blades.	Disengage the printhead lock lever. Remove the label supply. Clear the path of the debris.
"Data will not fit on installed labels"	The label supply is not the right size for the amount of data on the label.	Install the label supply recommended in the error message. See "Loading Labels" on page 15.
"File incompatible with installed labels"	The file selected is not compatible with the installed label supply. When printing a file from history, the error message will tell you the compatible label supply. When printing from the file list, the label supply part number will not be known.	Install label supply that is compatible with the label file being created. See "Loading Labels" on page 15.
"Head temperature outside range"	Printhead too hot	Printhead has reached maximum operating temperature. Let printhead cool down for approximately 10 minutes, then re-initiate print job.
"Incompatible labels for selected Label Type"	The label type created is not compatible with the installed label supply.	Install label supply that is compatible with the label type being created/printed.
"Invalid barcode character"	The wrong character type was input.	Use characters applicable to the type of barcode being created.
"Invalid terminal repeat value entered"	The value entered is out of the range.	The acceptable range is between the minimum of 0.2 inch to the maximum of 40 inches.
"Label and ribbon color are identical"	Ribbon color and label color are the same. Printing will not be visible.	Replace ribbon or label supply. See "Loading Supplies" on page 14.

Message	Cause	Corrective Action
"Label feed error"	Labels are installed but not moving through the printer.	Re-install label supply. See "Loading Supplies" on page 14. If the problem persists, follow cleaning instructions shown in "Cleaning the Printer" on page 74.
"No labels detected"	There is no label supply installed in the printer or the smart cell cannot be detected.	Confirm that the label supply, including bulk if used, is installed correctly and that the smart cell is properly aligned. NOTE: Bulk label cores cannot be re-used. When installing bulk labels replace the core for each new box of labels. Re-install or replace label supply. See "Loading Labels" on page 15.
"No ribbon detected"	There is no ribbon installed in the printer or the smart cell is not detected.	Re-install or replace the ribbon. See "Loading Supplies" on page 14. If the problem persists, contact Technical Support.
"Out of labels"	Label supply has run out, is not fully threaded into the printer or is improperly installed.	Replace or reinstall label supply, making sure that the smart cell is properly aligned. See "Loading Labels" on page 15. If the problem persists, follow cleaning instructions shown in "Cleaning the Printer" on page 74.
"Out of ribbon"	The ribbon has run out, broken or has excessive slack.	If the ribbon is used up or broken, replace the ribbon with one that is compatible with the installed label supply. See "Loading Supplies" on page 14. If the ribbon is slack, remove the ribbon and rotate the take-up spool end clockwise. See "Loading" on page 14.

Message	Cause	Corrective Action
"Print settings not optimized"	The printer does not have the necessary information about label parameters because the label is not included in the Printer Label Library.	Update the Label Library. See "Updating Printer Label Library Values" on page 73 .
"Ribbon not recommended for installed labels"	The installed ribbon is not recommended for use with the installed label supply.	Replace the ribbon with one that is compatible with the installed label supply, as indicated in the error message on the printer. Check your local Brady website for ribbon and label supply compatibility.
"Ribbon or cartridge is unlocked"	Switch locking lever to LOCKED position.	Confirm that the locking lever is fully engaged.
"Remove labels and ribbon"	The printer needs to be cleaned.	Follow the instructions shown on the printer.
"Set locking lever to LOCKED"	Lock printer during cleaning.	Set locking lever to LOCKED.

Hardware

Problem	Cause	Corrective Action
Keyboard works intermittently or not at all.	One or more keys is stuck in depressed state.	Identify any keys stuck in down position. Repress key to unstick.
Cutter does not cut.	Possible adhesive buildup.	Replace the Cutter.
	Label material is stuck in the cutter blades.	Disengage the printhead lock lever. Remove the ribbon. Remove the label supply. Clear the path of the debris.
Printer not connecting to mobile device or does not appear in the Express Labels app.	Bluetooth is not enabled on the printer or another device is already connected.	Confirm on the printer that Bluetooth is turned on. To disconnect a device, hold the power button on the printer for five seconds then connect your device.

Labels

Problem	Cause	Corrective Action
Printer will not feed labels.	The leading edge of the label supply is either not straight or not inserted up to the black line under the ribs.	Remove the label supply and use a pair of scissors to cut a straight leading edge, if necessary. When reinserting leading edge make sure it is securely under the ribs (at least up to the black line). See "Loading Labels" on page 15.
First label is blank when printing.	Locking lever was not engaged before feeding labels.	See "Loading Labels" on page 15.

Print Quality

Problem	Cause	Corrective Action
Poor quality printing	Battery pack may be worn out and not properly holding a charge.	Battery life is approximately one to three years, depending on its use and care. Order a replacement battery pack.
	Dust or adhesives accumulated on the printhead.	Clean the printhead. (See "Cleaning Internal Components" on page 74.)
No print on the label	The label or ribbon is not loaded correctly.	Reinstall the labels and ribbon. "Loading Supplies" on page 14.
Void areas or lines appear on printed text	Ribbon wrinkling.	With the ribbon installed, tension the ribbon by rotating the rewind spool (top spool) in a downward direction until all slack is removed. See "Ribbon" on page 14. If the problem persists, install a new ribbon.
Faint print on labels	Ribbon not advancing properly.	Remove the ribbon and rotate the take-up spool end clockwise. See "Loading" on page 14. If the problem persists, install a new ribbon.

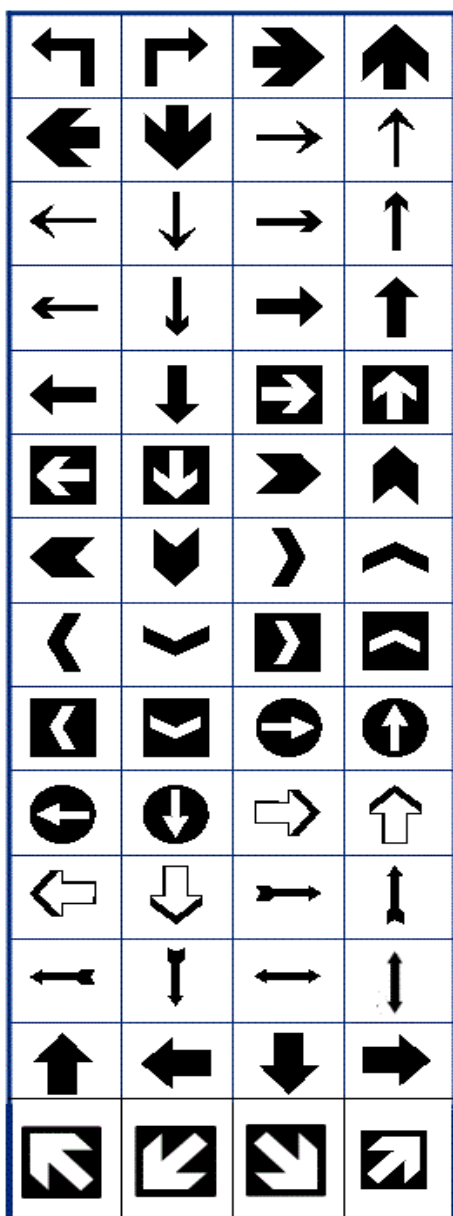
Power On and Off (Printer not Working)

Problem	Cause	Corrective Action
Printer does not power up when turned on.	Battery pack is not charged.	Attach the AC adapter to the printer and plug into an electrical outlet. This will supply immediate power while charging the battery at the same time.
Screen freezes	User interface error.	1. Press Power button to turn the printer off. - If Power button does not shut down printer: 2. Remove the AC adapter (if using one). 3. Remove the battery pack, then immediately re-insert. 4. Power ON the printer.
Printer frequently powers OFF.	Battery is low.	Attach the AC adapter to the printer and plug into an electrical outlet. This will supply immediate power while charging the battery at the same time.
	Auto shutoff timing.	Adjust the shut off delay timing in the <i>Setup, Config</i> menu. (See "Printer Configuration" on page 9.)
Printer not responding	Battery is dead.	• Attach the AC adapter to provide power to the printer and charge the battery. • Install a new battery.

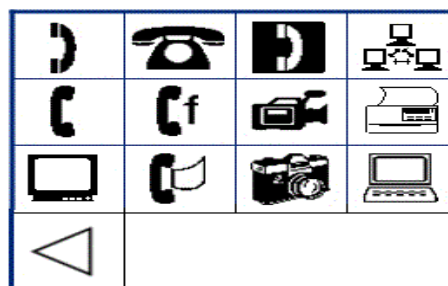
C Symbols

Symbols are available for use on any label, regardless of the Label Type in use. See [“Symbols” on page 42](#) for information on applying symbols to labels.

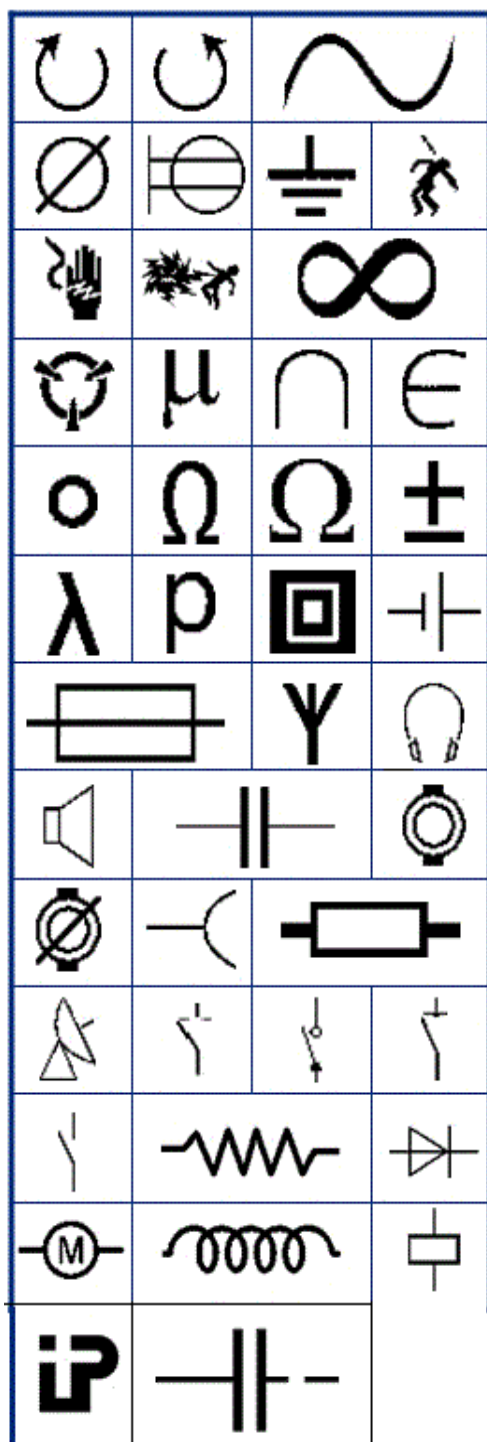
Arrows



DataComm



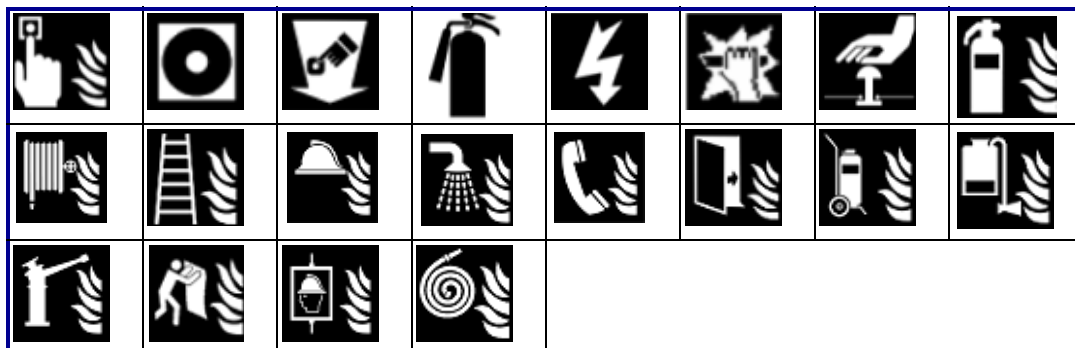
Electrical



Exit



Fire



First Aid



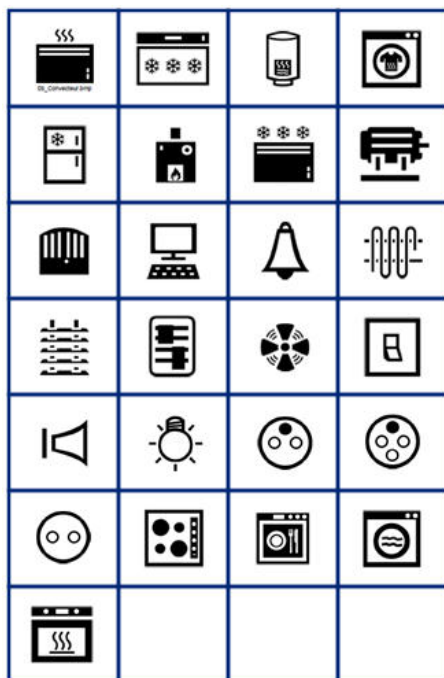
CLP/GHS



Greek



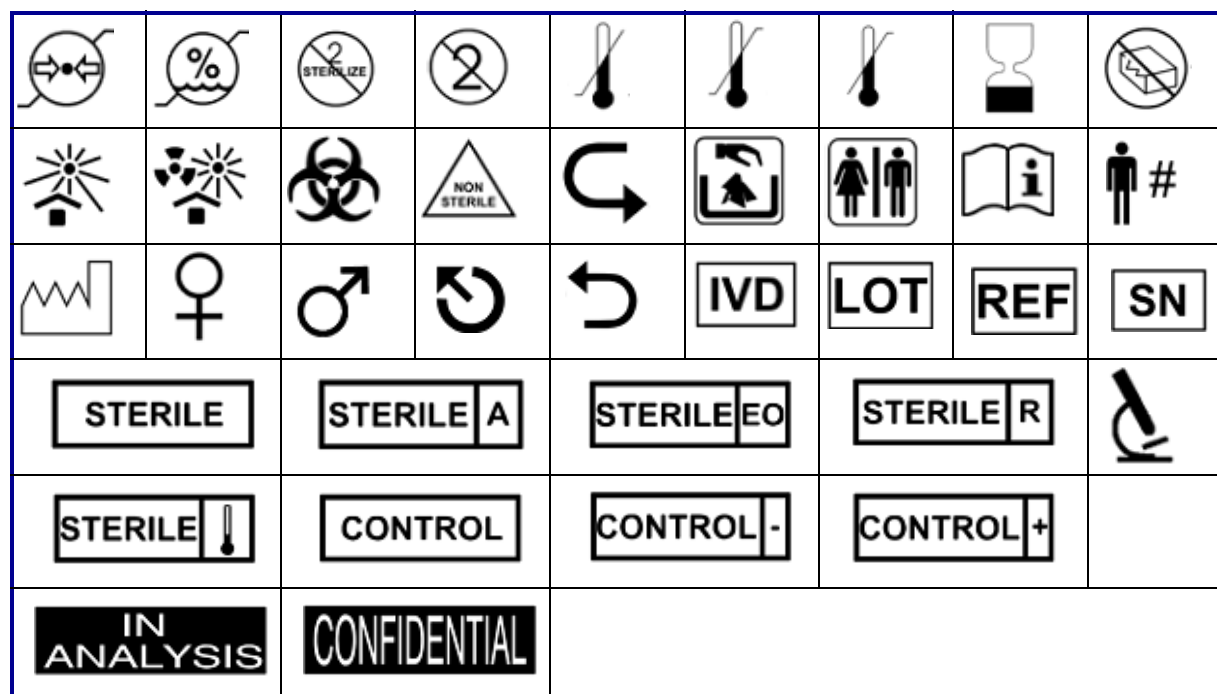
Home Electrical



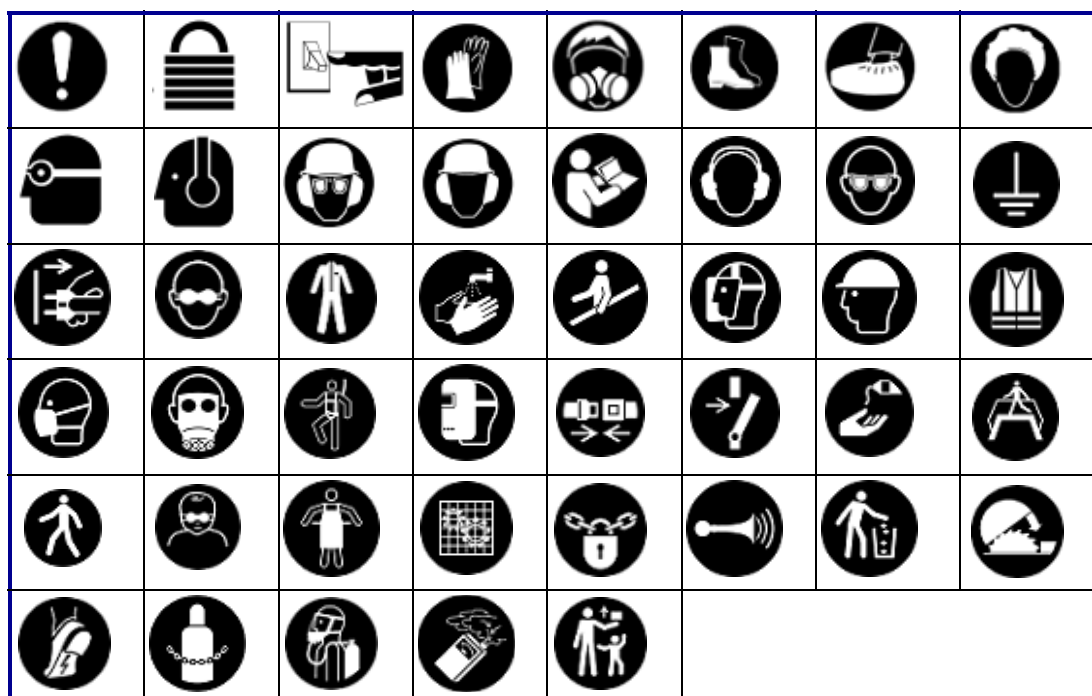
HSID



Laboratory



Mandatory



Miscellaneous



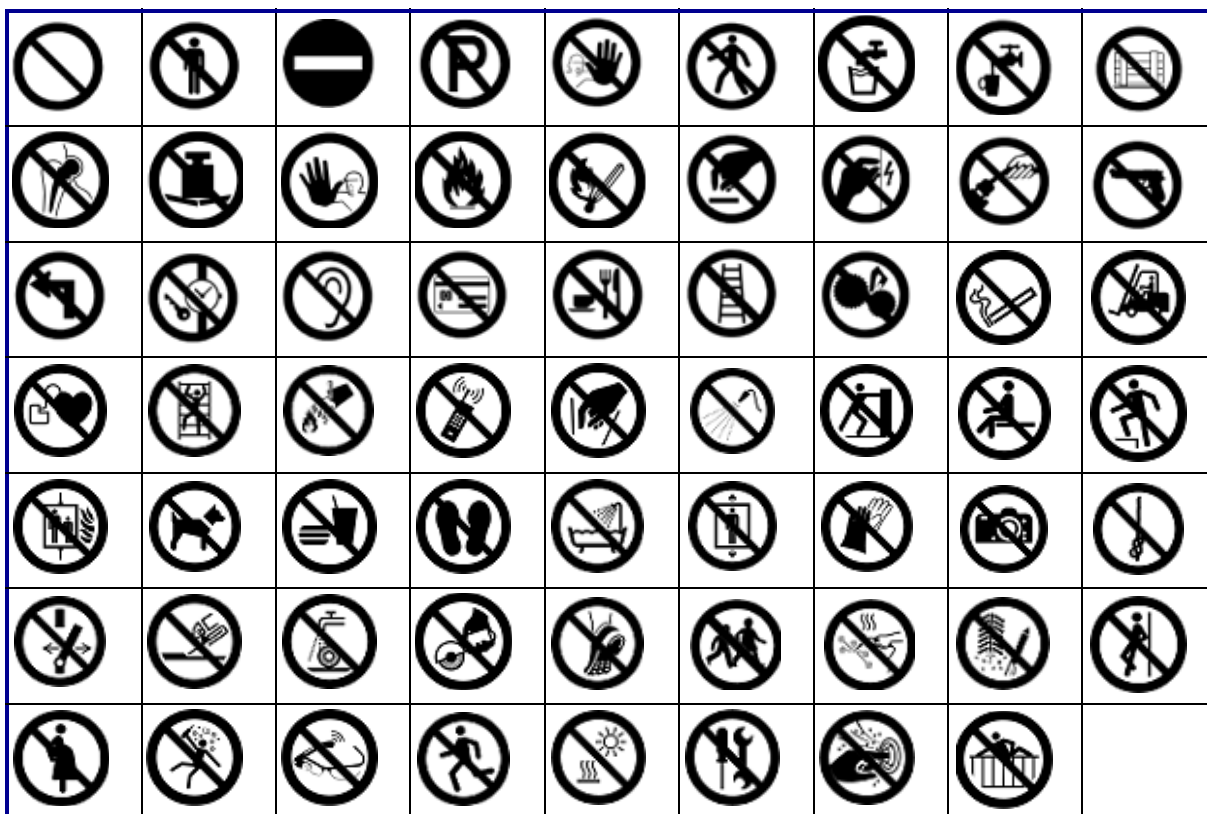
Packaging



PPE



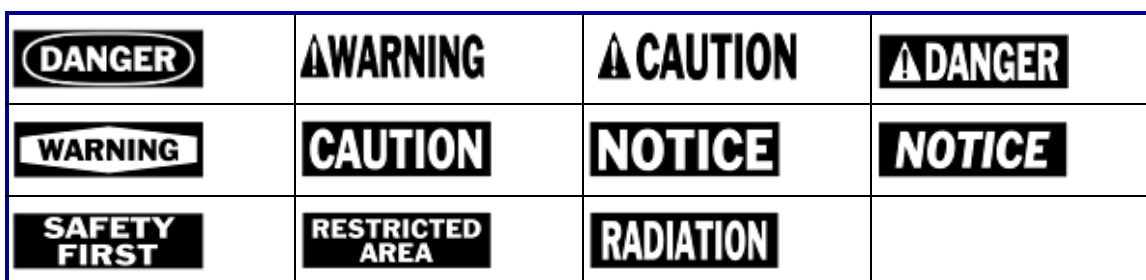
Prohibition



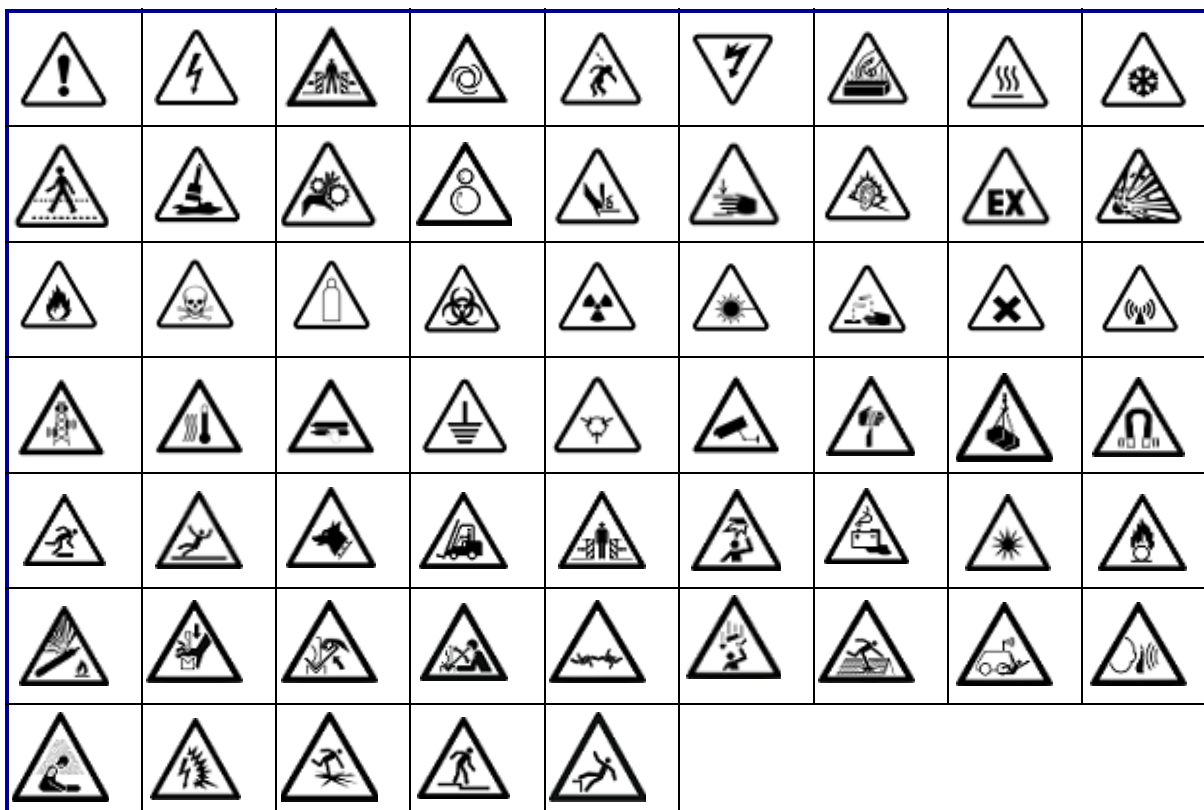
Public Info



Safety



Warning



WHMIS



E 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/M610compliance.

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。

仅适用于海拔 2000m 以下地区安全使用。

Taiwan

Class A Statement

警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境

Taiwan Restricted Substances Containment Status (RoHS Declaration) related to this product is available at www.BradyID.com/M610compliance.

Importer:

香港商貝迪香港有限公司

臺北市中山區南京東路 3 段 101 號 4 樓

BRADY CORPORATION HONG KONG LIMITED

4th Floor, No. 101, Section 3, Nanjing East Road, Zhongshan District, Taipei City

Wireless Regulatory Information

Applies only to the wireless printer model which supports Bluetooth wireless communication.

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	< +20dBm EIRP (100mW)
Antenna Type \ Antenna Gain	PCB trace 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 1.
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 1.

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.

RF exposure guidelines / Important note: This equipment complies with FCC SAR exemption limits set forth for an uncontrolled environment and properly used as instructed.

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.

RF exposure guidelines / Important note: This equipment complies with IC radiation exposure exemption limits set forth for an uncontrolled environment and properly used as instructed.

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; 2.402 to 2.480GHz
- b. Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates; < +20dBm EIRP (100mW)

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。

Hong Kong



Indonesia

87572/SDPPI/2023



87141/SDPPI/2022



South Africa

