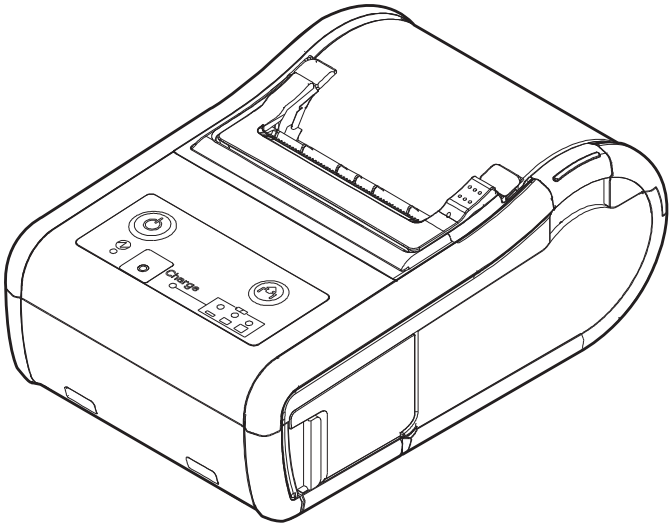
EPSON
EXCEED YOUR VISION

TM-P60II with Peeler

User's Manual



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Important Safety Information

This section presents important information intended to ensure safe and effective use of this product. Read this section carefully and store it in an accessible location.

Key to Symbols

The symbols in this manual are identified by their level of importance, as defined below. Read the following carefully before handling the product.

⚠ DANGER:
Dangers must be observed carefully to avoid serious injury or death.

⚠ WARNING:
Warnings must be observed carefully to avoid serious bodily injury.

⚠ CAUTION:
Cautions must be observed to avoid minor injury to yourself, damage to your equipment, or loss of data.

Note:
Notes have important information and useful tips on the operation of your product.

Safety Precautions

⚠ DANGER:
Do not use or charge this product in high temperature places (60°C {140°F} or higher). Furthermore, do not leave or store this product in places that are 60°C {140°F} or higher. Doing so could lead to heat, smoke, ruptures, fire, or leaks. Be sure to use within the limits of the environmental temperature conditions.

⚠ WARNING:
Do not use this product in a location with volatile substances such as alcohol or paint thinner, or near fire. Doing so may cause electric shock or fire.
Shut down your equipment immediately if it produces smoke, a strange odor, or unusual noise. Continued use may lead to fire. Immediately unplug the equipment and contact your dealer or a Seiko Epson service center for advice.
Never attempt to repair this product yourself. Improper repair work can be dangerous.
Never disassemble or modify this product. Tampering with this product may result in injury or fire.
Be sure to use the dedicated AC adapter, Epson PS-11 (M235A/M235B). Connection to an improper AC adapter may cause fire.
Do not allow foreign matter to fall into the equipment. Penetration by foreign objects may lead to fire.
If water or other liquid spills into this equipment, do not continue to use it. Continued use may lead to fire. Unplug the equipment immediately and contact your dealer or a Seiko Epson service center for advice.

Do not use this product in an environment where flammable gas or explosive gas may exist. Do not use aerosol sprayers containing flammable gas inside or around this product. Doing so may cause fire.

Do not connect cables in ways other than those mentioned in this manual. Doing so may cause fire. It may also damage other devices.

Do not touch the areas inside the product other than those mentioned in this manual. Doing so may cause electric shock or burns.

⚠ CAUTION:
Be careful not to drop this product. The product may break or cause injury if it is dropped.

Do not use in locations subject to high humidity or dust levels. Excessive humidity and dust may cause equipment damage or fire.
Do not place heavy objects on top of this product. Never stand or lean on this product. Equipment may fall or collapse, causing breakage and possible injury.
To ensure safety, unplug this product before leaving it unused for an extended period.
Take care not to injure your fingers on the manual cutter

- *When you remove printed paper*
- *When you perform other operations such as loading/replacing roll paper*

Safety Precautions for Rechargeable Battery Pack

⚠ DANGER:

If any liquid from the battery gets into your eyes, promptly wash it out with clean water for more than 10 minutes and consult your doctor at once. If you do not, the liquid may cause loss of eyesight.
Never disassemble or modify the battery pack. This may cause fire, explosion, leakage, overheating or damage.
Do not expose the battery to fire or heat it. This may cause fire, explosion, leakage, overheating or damage.

⚠ WARNING:

Keep the battery pack away from fire or flame if it produces a strange odor or leakage. Otherwise fire or explosion may occur.
Should any battery liquid get on skin or clothing, promptly wash it off with clean water. If you do not, the liquid may damage your skin.
Do not expose the battery to water. Do not allow water to contact the terminals. This may cause fire, overheating, or electric shock.

Transportation of the Battery

In transportation of the battery, make sure to follow the latest UN recommendations.

Safety Precautions for Wireless connection

This product is not guaranteed to work with all wireless LAN devices, including ad hoc mode.

⚠ WARNING:

In airplanes, follow the instructions from the airline. Turn off wireless devices during takeoff and landing according to the in-flight announcement.
Do not use the product near medical equipment or in medical institutions. Radio waves may affect artificial cardiac pacemakers or other medical electrical equipment.
Keep the product 22cm {8.66"} or more away from the location of an artificial cardiac pacemaker. Otherwise, radio waves may affect operation of the pacemaker.
Do not use the product near automatic control equipment such as automatic doors and fire alarms. Doing so may cause malfunction due to radio waves, resulting in an accident.

⚠ CAUTION:

Transmission may not be possible in environments which produce radio interference, such as near a microwave oven. In that case, taking measures such as changing the installation location or channel in use, or installing a shielding plate may improve the transmission.

- ❏ Even after data transfer from the host computer is already finished, data may remain in the buffer in the printer. When wireless connection is terminated, data remaining in the buffer may be discarded. Before printing or terminating a wireless connection, make sure that the transmitted data has been printed completely by checking the print job status or by checking another way.
- ❏ For Bluetooth® interface models, when the wireless connection is ended while the printer is offline, reconnection may not be possible. In such case, remove the cause of offline and reconnect it.

- ❏ For Bluetooth® interface models, if you establish a radio connection between the host computer and the printer each time you start printing instead of maintaining the connection, it may take a while between the time you send a print job and the time that the printer actually starts printing. This happens because connecting the host computer and the printer requires some time. The time required for connection depends on the operating environment.

Safety Label

The caution label on the product indicates the following precaution.

⚠♨ ***CAUTION:***
During printing or after printing, the thermal head can be very hot.

Restriction of Use

When this product is used for applications requiring high reliability/safety, such as transportation devices related to aviation, rail, marine, automotive, etc.; disaster prevention devices; various safety devices, etc.; or functional/precision devices, etc.; you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability. Because this product was not intended for use in applications requiring extremely high reliability/safety, such as aerospace equipment, main communication equipment, nuclear power control equipment, or medical equipment related to direct medical care, etc., please make your own judgment on this product's suitability after a full evaluation.

Notes on Use

- ❏ The printer does not operate with only the AC adapter. Always install the enclosed battery OT-BY60II in the printer even when using the AC adapter.
- ❏ Be sure to use the power button to turn the printer on and off.
- ❏ To communicate with a computer via a USB cable, connect the cable before turning on the printer.
- ❏ To use the USB cable, it is recommended to secure it to avoid stress on it.
- ❏ Be sure not to open the roll paper cover when the printer is operating.
- ❏ Protect the printer from impact.
- ❏ Do not apply excessive force to the printer case.
- ❏ Do not place food or beverages such as coffee on the case of the printer.

Notes on Power Supply

Battery Pack

Before using the printer for the first time, charge the battery OT-BY60II. To install and charge the battery, see "Installing and Charging Battery" on page 9.
Read also the safety precautions for the rechargeable battery described previously in this manual.

⚠ ***WARNING:***
Be sure to use the battery OT-BY60II. Using a battery other than the one specified may cause fire, explosion, leakage, overheating or other damage.

⚠ ***CAUTION:***
Dispose of used batteries according to the instructions.

External Power Supply

This product uses a listed power unit marked "Class 2" or "LPS," with the output voltage of either maximum 1.0 A at DC12 V, or maximum 1.5 A at DC 24 V.

With the optional AC adapter Epson PS-11 [Model: M235A/M235B], the output voltage is maximum 1.5 A at DC 24 V, and the input voltage is AC 100 V to 240 V.

Recycling the Batteries

Contains a lithium-ion battery. Must be recycled or disposed of properly.

Note:
Do not disassemble the battery pack.

For American Users

The lithium-ion battery is recyclable. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.

Downloading Drivers, Utilities, and Manuals

Further product information is written in the TM-P60II *Technical Reference Guide*.

The latest versions of drivers, utilities, and manuals can be downloaded from one of the following URLs.

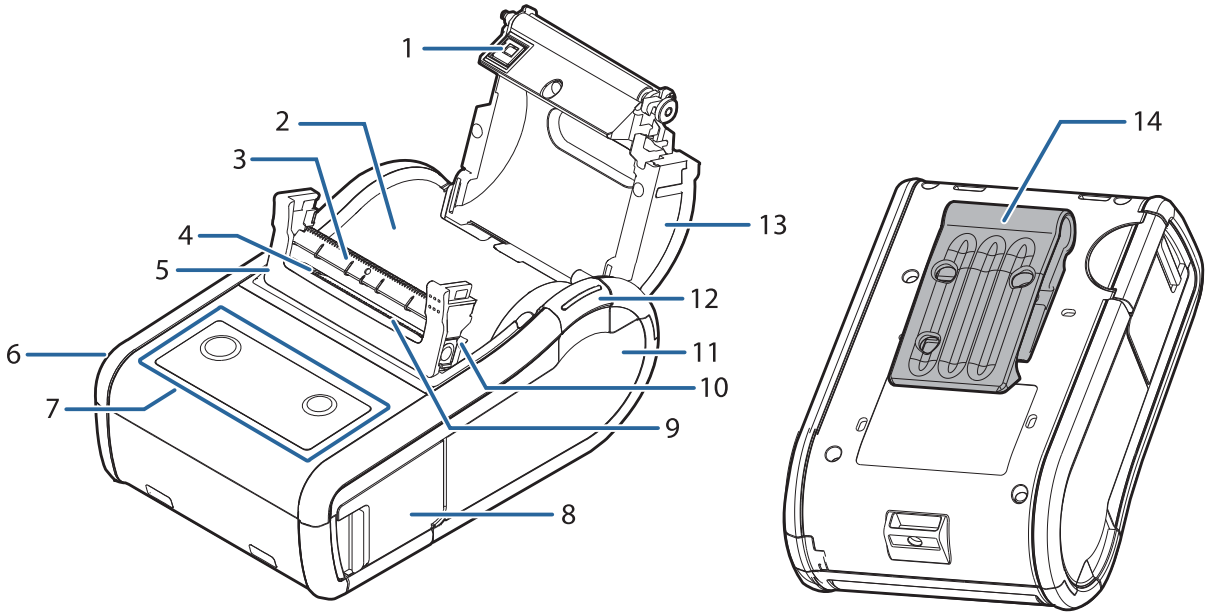
For customers in North America, go to the following web site:
http://www.epson.com/support/

For customers in other countries, go to the following web site:
http://download.epson-biz.com/?service=pos

Open Source Software License

1. This product includes open source software programs listed in Section 4) according to the license terms of each open source software program.
2. We provide the source code of the GPL Programs and LGPL Programs (each is defined in Section 4) to you on a CD-ROM for a charge covering the cost of performing such distribution, such as the cost of media, shipping and handling until five (5) years after the discontinuation of same model of this product. If you desire to receive the source code above, please contact the customer support for your region.
3. The open source software programs are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. See the license agreements of each open source software program for more details, which are described on "OPEN SOURCE SOFTWARE LICENSE TERMS" in this documentation.
4. The list of open source software programs included with this printer product and the whole license agreements of each license can be found in the following URL.
   http://xxx.xxx.xxx.xxx/licenses.htm
   * For the underlined part in the above URL, input each printer's IP address.

Part Names



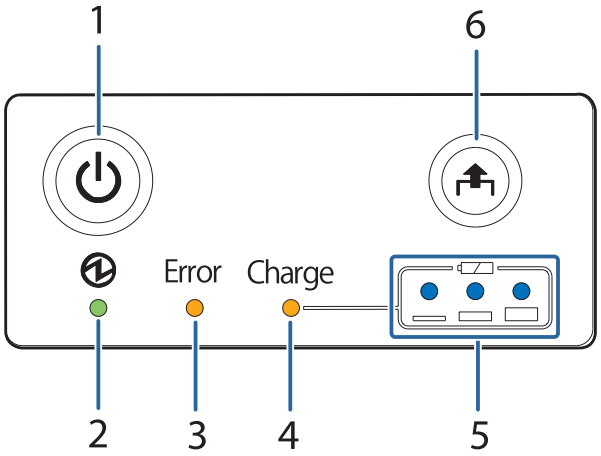
1. Paper sensor
2. Roll paper holder
3. Peeler holder
4. Label peeler sensor
5. Peeler cover
6. Charging connector
7. Control panel
8. Battery cover
9. Manual cutter
10. Peeler switch lever
11. NFC tag
12. Open button
13. Roll paper cover
14. Belt clip

NFC Tag

A mark is printed here to indicate the position of the NFC tag. To establish communication with an NFC device, bring the device close to this mark.

For the functions using the NFC tag, refer to *Technical Reference Guide*.

Control Panel (LEDs and Buttons)



1. Power button
2. Power LED
3. Error LED
4. Charge LED
5. Battery LED
6. Feed button

Power LED

Power LED	Meanings
On	Power is on.
Off	Power is off.
Flashing	The printer is powering-off.

Error LED

Printer Condition	Error LED	Meanings
Power On	On	Printer is offline (paper out, power-on initialization, roll paper cover open, the remaining battery charge is at E level).
	Off	Printer is in normal operation, is running a self-test, or feeding paper using the Feed button.
	Flashing	The thermal head is too high in temperature, roll paper cover was opened during printing, autocutter mulfunction, abnormality in a memory R/W check, power supply voltage is extreamely high/low, the CPU has executed an incorrect address, or abnormality in internal circuit connection.

Charge LED

Printer Condition	Charge LED	Meanings
Power On and battery installed	On	The battery is being charged.
	Off	The battery is fully charged.
	Flashing	There is abnormality in battery charging.

Battery LED

Printer Condition	Battery LED	Error LED	Battery charge status	Meanings
Power On	3 LEDs On	Off	Level H	-
	2 LEDs On	Off	Level M	-
	1 LED On	Off	Level L	You can continue printing, but replacement or charge of the battery is recommended.
	1 LED flashing	Off	Level S *	Replace or charge the battery. (Printing may stop in the middle.)
		On		Replace or charge the battery. (The printer is unable to print.)
Power on and buzzer sounds.	3 LEDs Off	On	Level E	Replace or charge the battery.

*You can select whether to continue printing or to stop printing when only1 LED flashes.

⏻ *(Power) button*

Press this button to turn the power on or off. To turn the power off, hold the button for more than 2 seconds.

Feed button

Press this button to feed paper.

Belt Clip

You can hang the printer on your belt using the belt clip attached to the back of the printer.

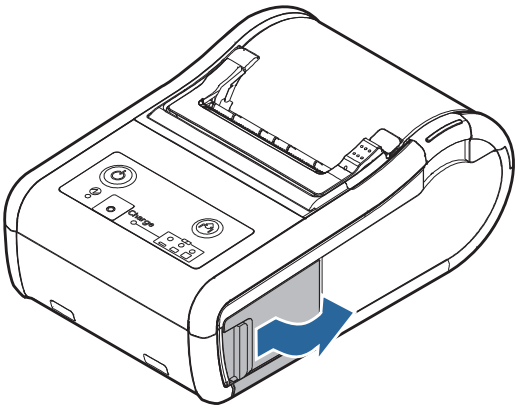
Installing and Charging Battery

Follow the steps below to install and charge the battery.

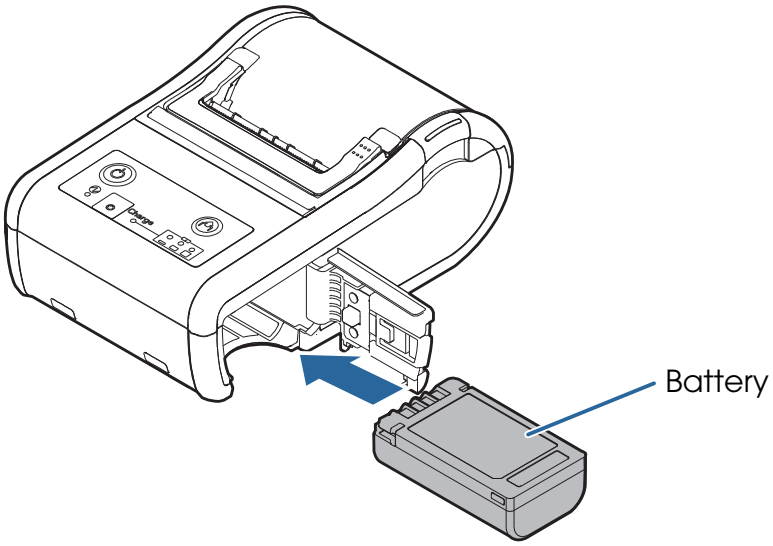
Note:

The battery can be charged only when the temperature is 0 ~ 40°C {32 ~ 104°F}.

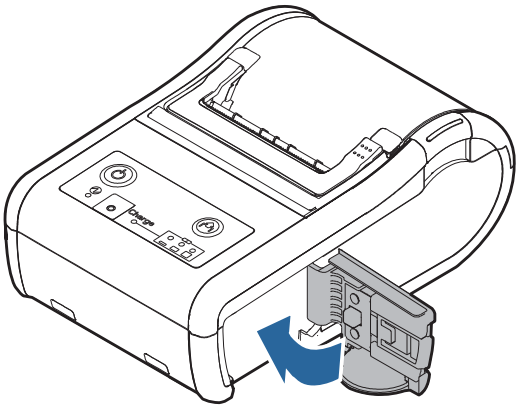
1. Make sure that the printer is turned off.
2. Slide the battery cover to open it.



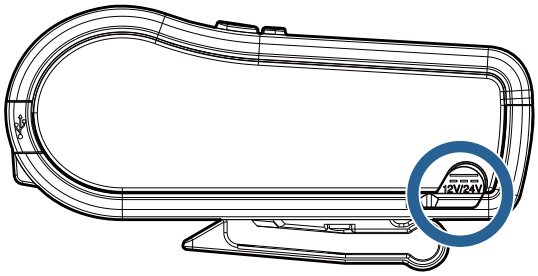
3. Install the battery.



4. Close the battery cover.



5. Connect the AC adapter to the printer.
Recharging starts.



Notes:
Recharging will take approximately 2.5 hours with the AC adapter or with the optional battery charger OT-CH60II. For detailed information on the battery charger, see its user's manual. The time described above is the time required to charge a battery pack that is fully discharged.

Recharging the battery at 35°C {95°F} or higher activates the internal temperature control of the printer, which may reqire a longer charging time than the specified one. The Charge LED flashes while charging the battery.

Switching Issuing Mode

You can switch the issuing mode between the label continuous issuing mode and the label peeler issuing mode by folding the peeler holder under the peeler cover.

Installing or Replacing Roll Paper

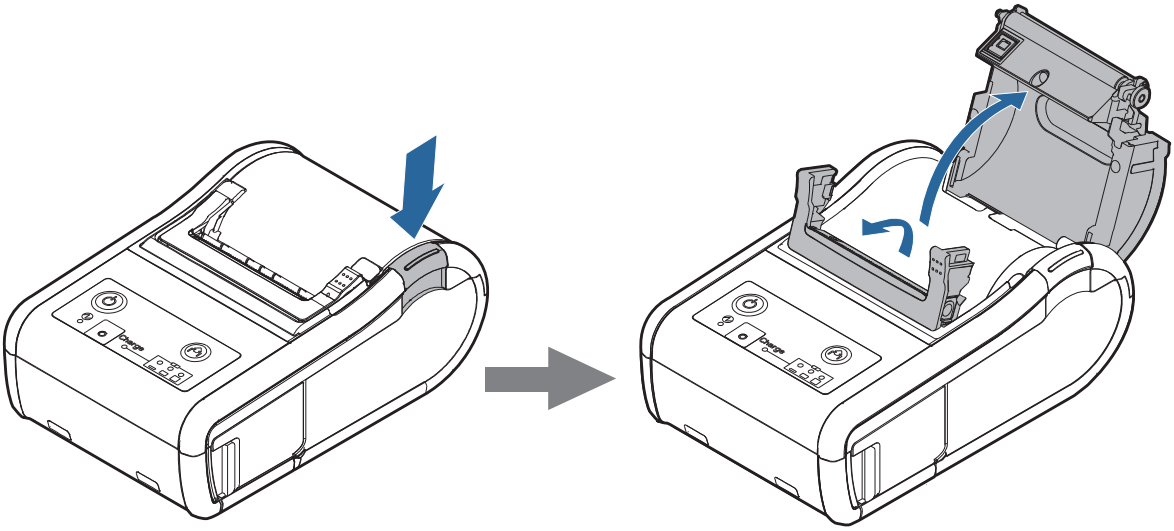
Follow the steps below to install or replace the roll paper.

⚠ ***CAUTION:***
Be sure to use roll paper that meets the specifications.

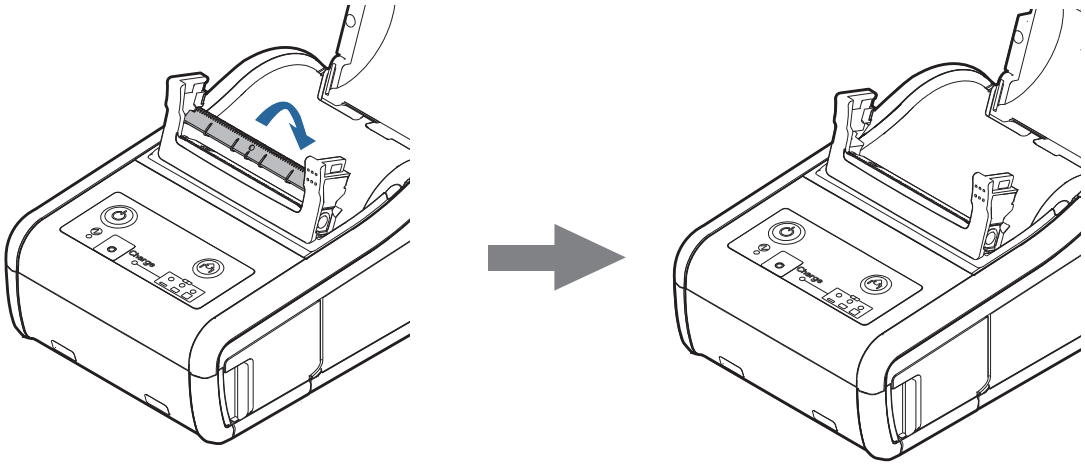
Note:
Do not use the roll paper that have the paper glued to the core.

When Using the Label Continuous Issuing Mode

1. Press the open button to open the roll paper cover and the peeler cover. Remove the used roll paper core if there is one.

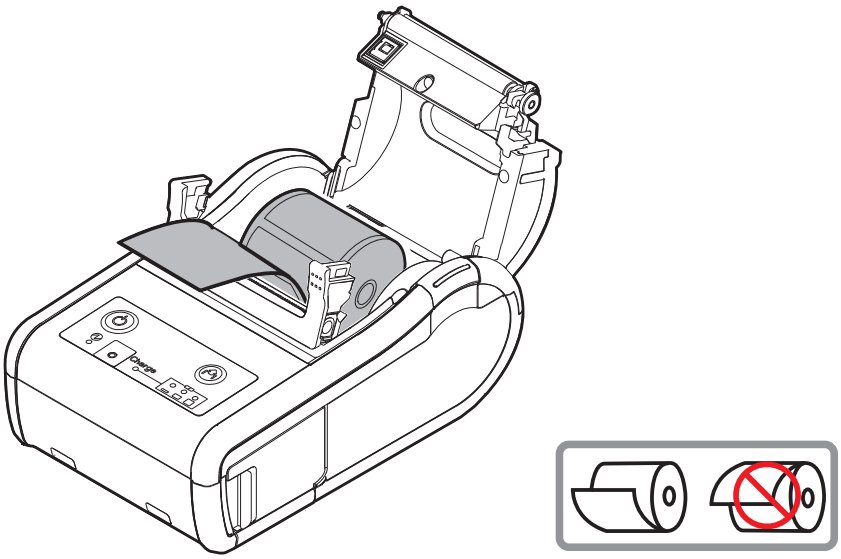


2. Fold the peeler holder under the peeler cover. This covers the label peeler sensor.



When installing the label paper horizontally

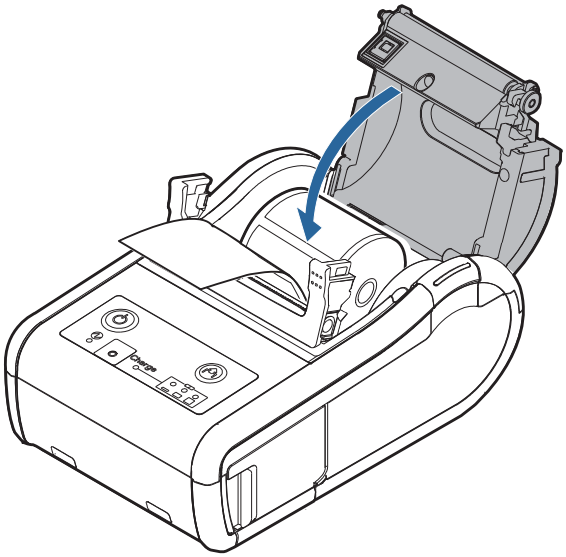
3. Set a new roll of paper inside the roll paper holder, and pull the leading edge of the roll paper.



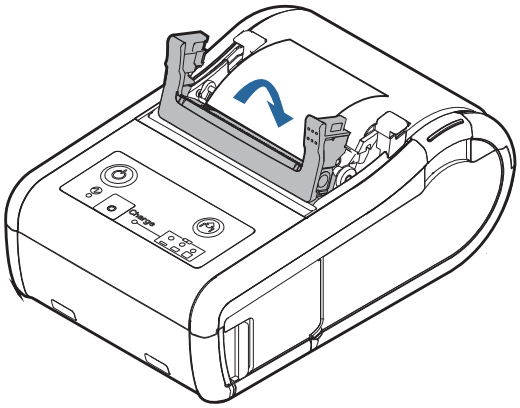
Note:

Note the direction the paper comes off the roll.

4. Close the roll paper cover.

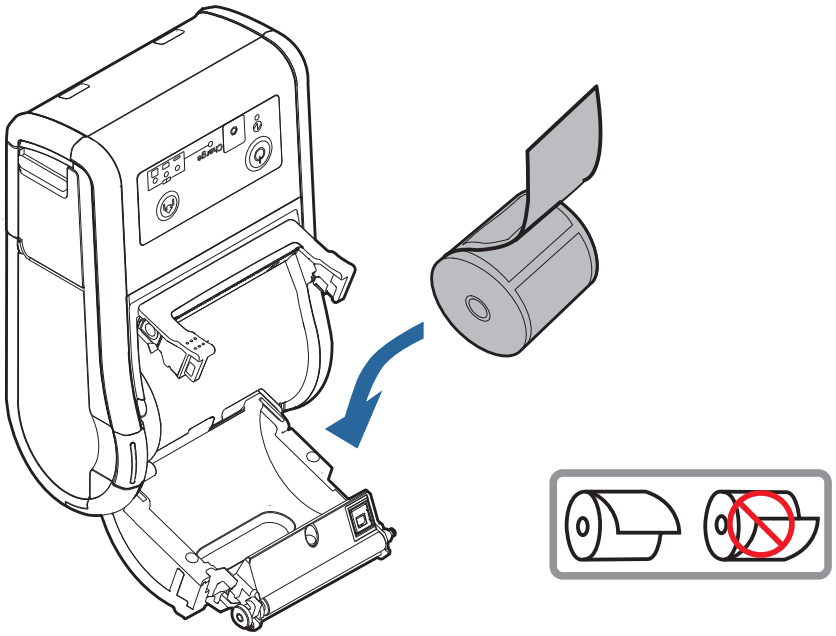


5. Close the peeler cover.



When installing the label paper vertically

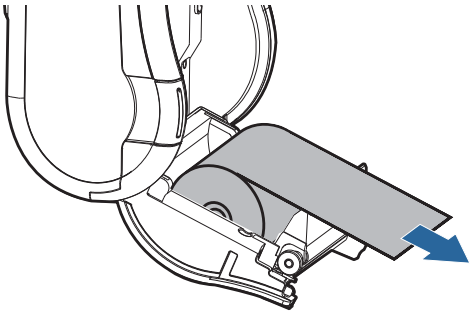
3. Set a new roll of paper inside the roll paper cover.



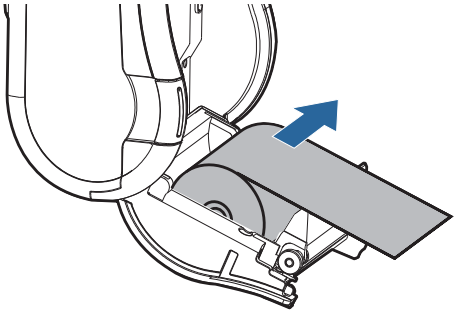
Note:

Be sure that the roll paper side is at the bottom when you install the printer vertically.

4. Pull the leading edge of the roll paper.



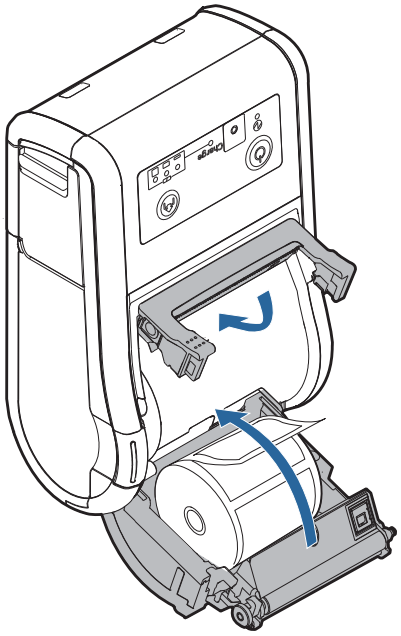
5. Align the left edge of the roll paper with the edge of the cover.



Note:

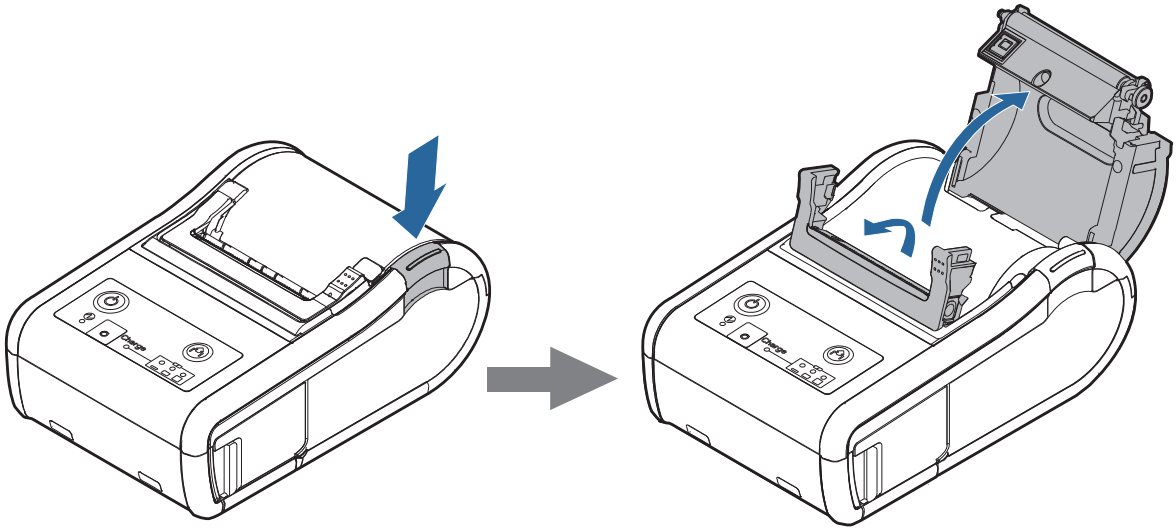
Note the direction the paper comes off the roll.

6. Close the roll paper cover and the peeler cover.

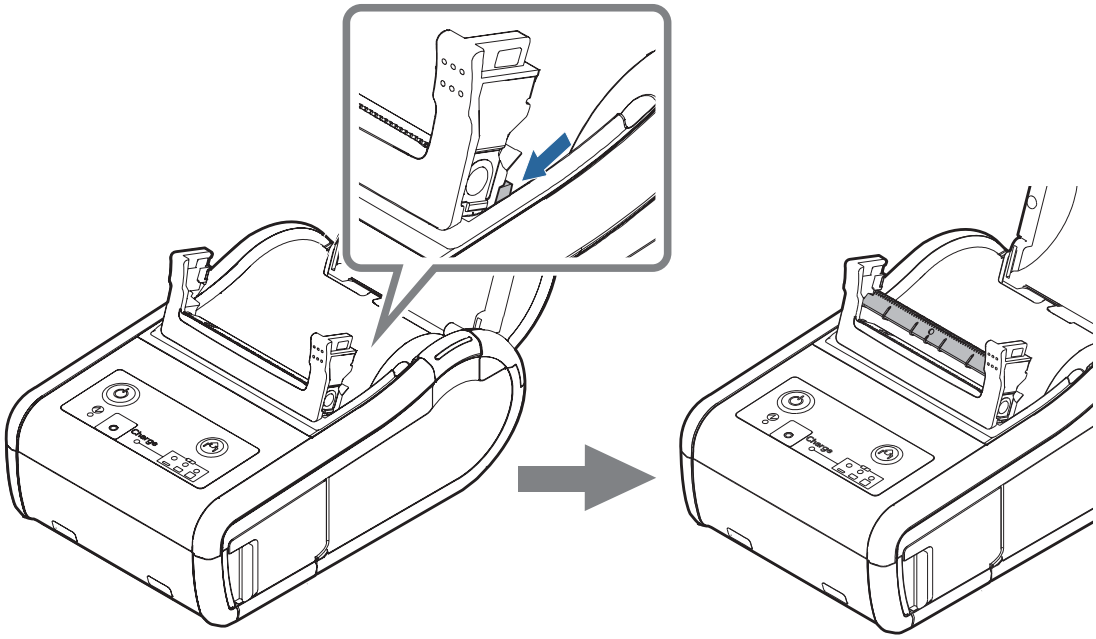


When Using the Label Peeler Issuing Mode

1. Press the open button to open the roll paper cover and the peeler cover. Remove the used roll paper core if there is one.

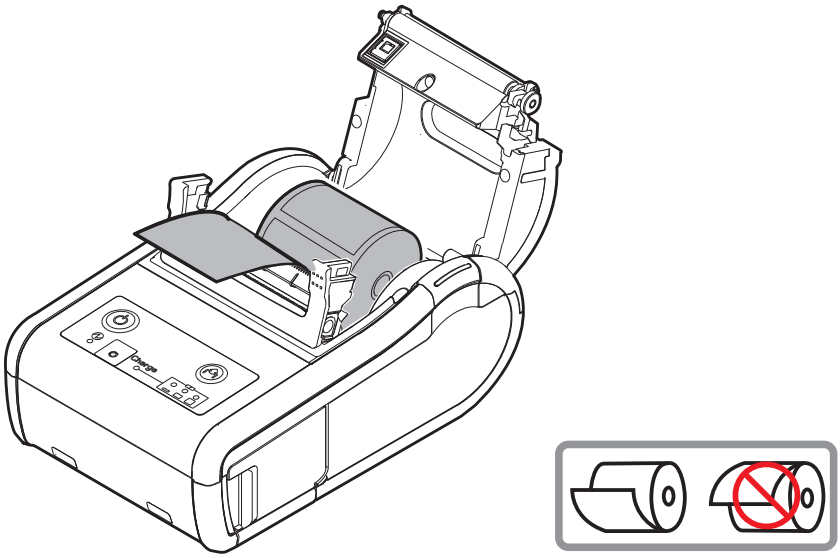


2. Press the peeler switch lever to lift the peeler holder.



When installing the label paper horizontally

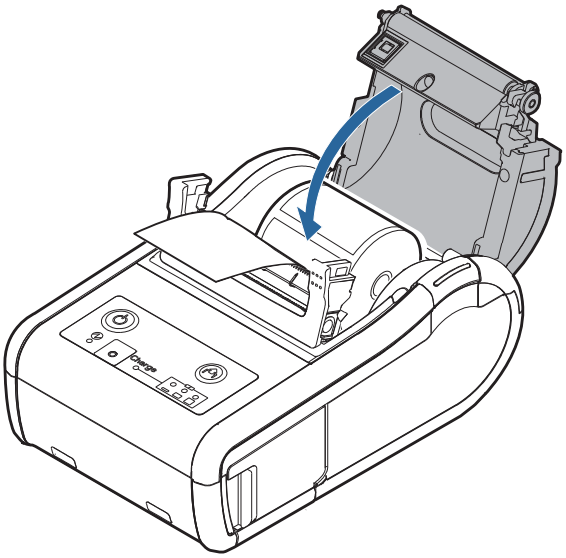
3. Set a new roll of paper inside the roll paper holder. Remove the first label off, and pull the label paper so you can set the backing paper in the peeler holder.



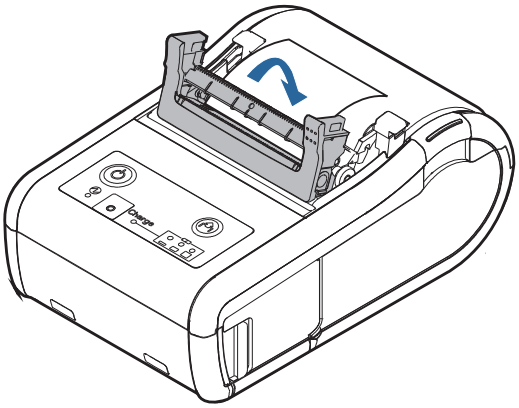
Note:

Note the direction the paper comes off the roll.

4. Close the roll paper cover.

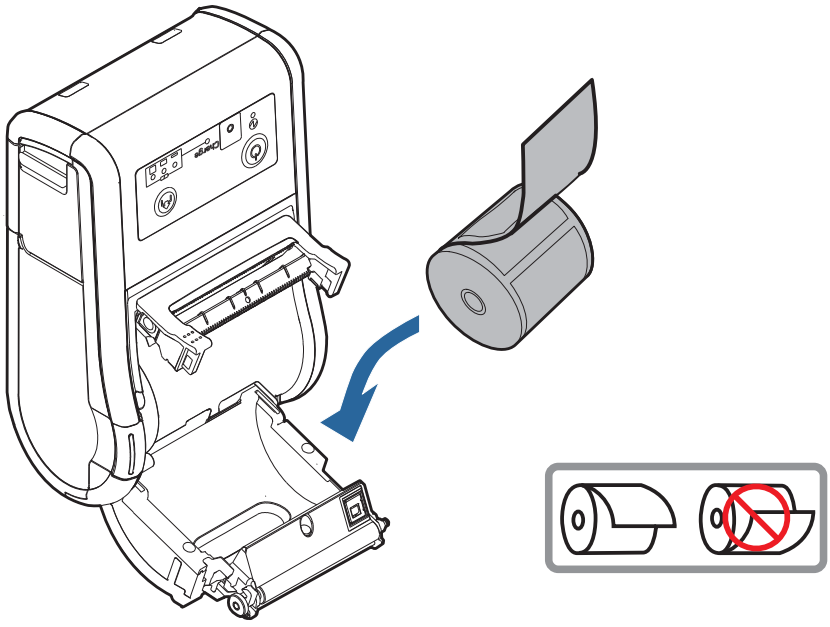


5. Close the peeler cover.



When installing the label paper vertically

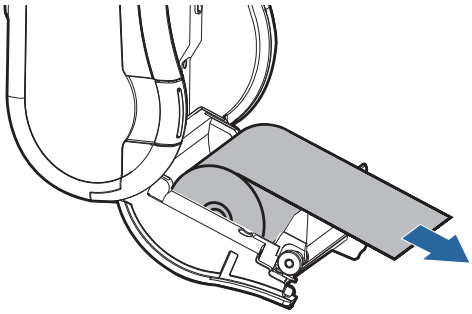
3. Set a new roll of paper inside the roll paper cover.



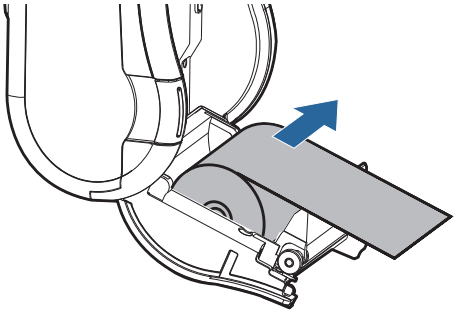
Note:

Be sure that the roll paper side is at the bottom when you install the printer vertically.

4. Pull the leading edge of the roll paper.



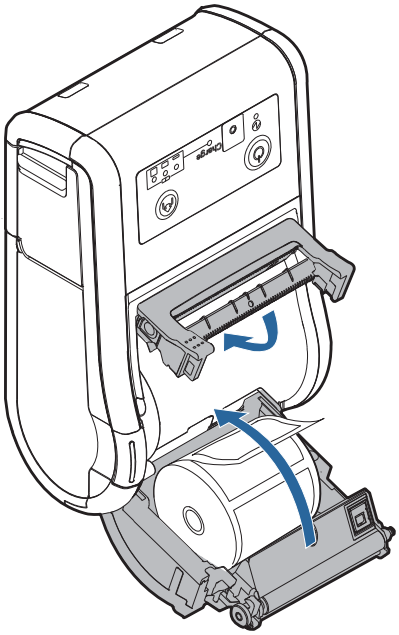
5. Align the left edge of the roll paper with the edge of the cover.



Note:

Note the direction the paper comes off the roll.

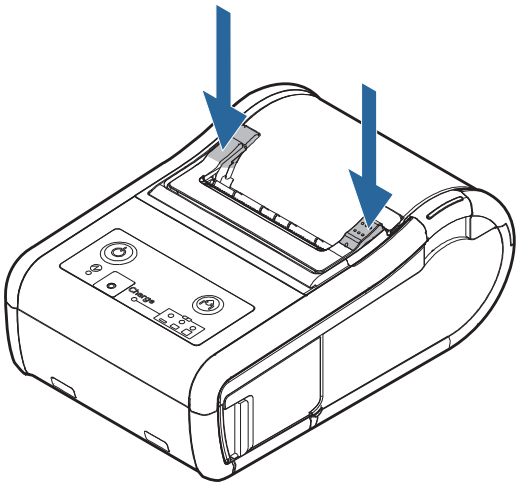
6. Close the roll paper cover and the peeler cover.



Note:
Removing the issued label enables the label peeler detector to detect a paper end and the printer to issue the next label.

If the first label is not removed when using the label peeler issuing mode, the thickness of the label and the backing paper overloads the peeler holder, possibly stopping the paper feed motor.

When closing the peeler cover, make sure to close it firmly, pressing both ends.



You can cut the label paper

When the label is completely fed to the peeling position, the printer goes in the label removal waiting state, so remove the label.

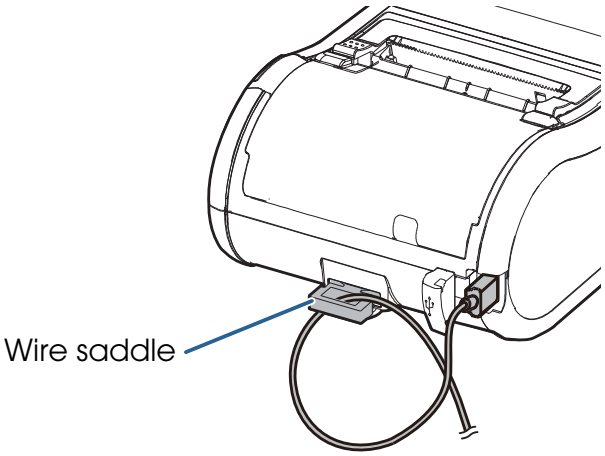
When the label peeler detector detects the paper at the power on, the printer goes in the label removal waiting state and the Error LED comes on. Be sure to remove the label before powering off the printer. Otherwise, the printer goes into the label removal waiting state when it is powered on again.

Changing the Paper Width

You can change the paper width from 29.5 mm to 60 mm by removing the spacer installed in the roll paper holder and changing the setting for the paper width. For detailed information on changing the paper width, see the *TM-P60II Technical Reference Guide*

Wire Saddle

To prevent the USB cable from coming off the connector, attach the enclosed wire saddle to the printer.



Buzzer

The factory default is set to On (buzzer sounds) to indicate the following:

- ❏ Remaining battery charge is not adequate
- ❏ Roll paper end
- ❏ Error

Troubleshooting

No lights on the control panel

Check that the battery is installed.

Error LED is flashing or on

- ❏ The printer temperature may be too high. The printer resumes printing automatically when the temperature returns to normal.
- ❏ Make sure that the roll paper cover is properly closed.
- ❏ Make sure that roll paper is installed
- ❏ When the printer power is on, if the Error LED is on and the Battery LED is off, the remaining battery charge is not enough for printer operation. Replace or charge the battery.
- ❏ When the battery is being charged, if the Error LED is on, an abnormality has occurred. The battery must be replaced with a new one.
- ❏ Turn off the power, wait several seconds, and then turn it on again. If the error remains, contact a qualified service person.
- ❏ In the label peeler issuing mode, the Error LED may flash when a label blocks the label peeler detector. In this case, remove the label. If you cannot remove the label, reload the label roll paper or press the FEED button for more than 1 second to execute a forced paper feed.

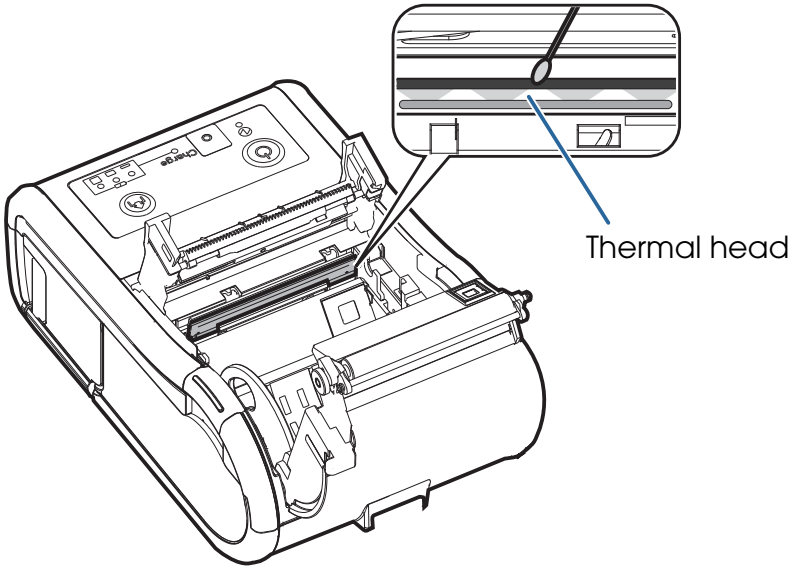
Cleaning the Thermal Head

⚠ ***CAUTION:***

After printing, the thermal head can be very hot. Be careful not to touch it and to let it cool before you clean it. Do not damage the thermal head by touching it with your fingers or any hard object.

Do not use water. Use an alcohol-based solvent only.

Turn off the printer, open the peeler cover and the roll paper cover, and clean the thermal elements of the thermal head with a cotton swab moistened with an alcohol solvent (ethanol or IPA).

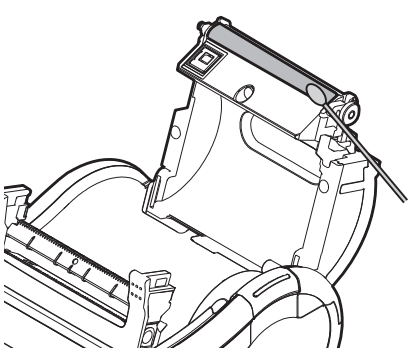


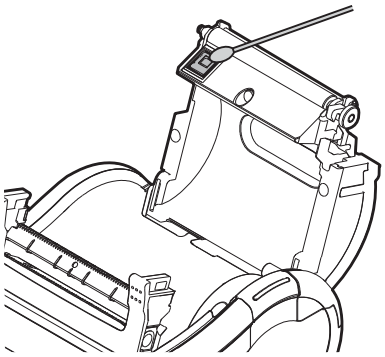
Epson recommends cleaning the thermal head periodically (generally every 3 months) to maintain print quality.

Cleaning the Platen Roller/Paper Sensor

When paper dust accumulates on the platen rollers or the paper sensor, follow the steps below to clean them. To maintain good functional capabilities, clean them regularly (every 6 months).

1. Turn off the printer, open the peeler cover, and then the roll paper cover.
2. Clean the platen roller and the paper sensor with a cotton swab lightly moistened with water or alcohol.



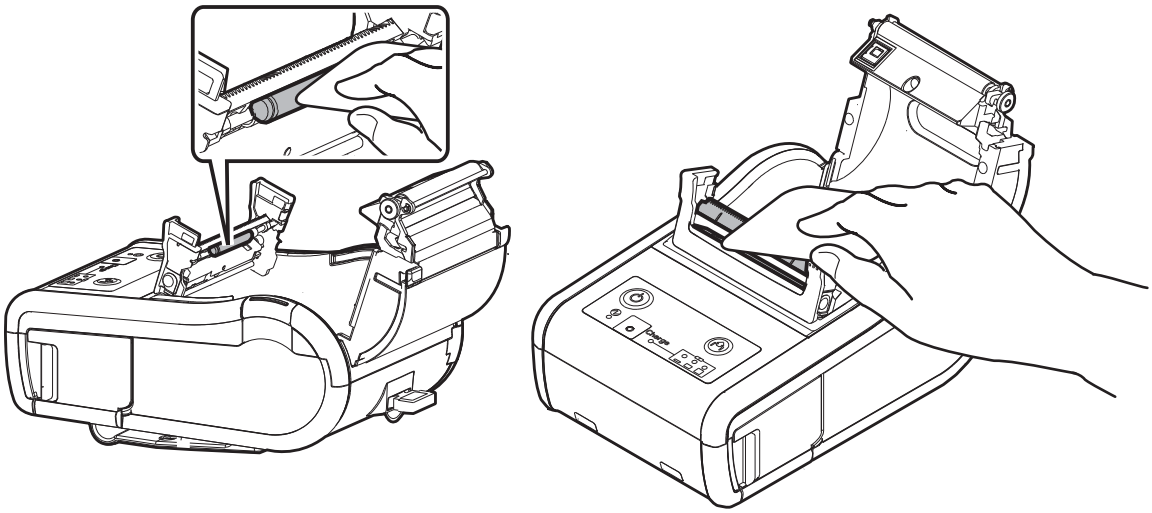


3. Close the roll paper cover after the water or alcohol has dried.

Cleaning the Peeler Unit

After the peeler is used for a prolonged period of time, the glue from the labels accumulates on the rollers of the peeler unit. If you leave the rollers in such a condition, the glue may stick to issued labels, or a paper jam may occur. To prevent malfunctions and maintain good print quality, clean the rollers regularly (every 20,000 labels).

1. Turn off the printer, and open the roll paper cover and the peeler cover.
2. Remove the glue with a wasted label.



3. Close the roll paper cover and the peeler cover.

Note:
Do not use any alcohol based solvents for cleaning. Such solvents may enter the roller shaft and cause a malfunction of the peeler.

TM-P60II with Peeler Specifications

Print method		Thermal line printing
Print density		203 dpi × 203 dpi (dpi: dots per 25.4 mm (dots per inch))
Printing width (default)		60-mm paper width recipt: 54 mm {2.13"}, 432 dot positions 60-mm wide backing paper, 56-mm wide label: 50 mm {1.97"}, 400 dot positions
Paper	**Roll paper width (default)**	29.5 mm {1.16"}, 36 mm {1.42"}, 42 mm {1.65"}, 48.5 mm {1.91"}, 55 mm {2.17"}, 58 mm {2.28"} (default), 60 mm {2.36"}
	Usable type of paper	Receipt paper (with/without black mark) Di-cut label paper (with/without black mark)
	External diameter	Max. 51 mm {2.00"}
	Roll paper core external diameter	For di-cut label paper: 31.4 mm {1.24"} or more For receipt paper: 18.0 mm {0.71"} or more
	Specified thermal paper	Di-cut label paper: (Osaka Sealing Printing) V9NS5 (MACtac) DTM9502 Receipt paper: (Nippon Paper) TF50KS-E (Kanzaki Specialty Papers) (USA): P30023, P31023, P35024
Interface	**Wi-Fi® model (Model: M292C)**	IEEE802.11a/b/g/n mini-USB 2.0 Full speed, Type B
	Bluetooth® model (Model: M292D)	Bluetooth 2.1 (EDR supported) mini-USB 2.0 Full speed, Type B
Specified battery*1		Rated voltage: DC 7.2 V Capacity: Typ.1950 mAh, Min.1850 mAh
Supply voltage		Input voltage: Either max. 1.0 A at DC12 V, or max. 1.5 A at DC 24V (When using the optional AC adapter Epson PS-11 (Model: M235A/M235B)) Output voltage: 1.5 A at DC 24V, Input voltage: AC 100V to 240 V
Temperature /humidity	**During battery charge**	0 ~ 40°C {32 ~ 104°F}, 10 ~ 90% RH
	During operation	Battery only: 0 ~ 45°C {32 ~ 113°F}, 10 ~ 90% RH Battery and power unit: 0 ~ 40°C {32 ~ 104°F}, 10 ~ 90% RH
	During storage	High temperature and humidity: 45°C {113°F}, 90%RH for 120 hours High temperature: 70°C {158°F} for 120 hours Low temperature: -25°C {-13°F} for 120 hours
Overall dimensions (W × D × H)		103 × 159 × 65 mm {4.1 × 6.3 × 2.6"} (Belt clip excluded)
Weight (Mass)		Approx. 613 g {1.35 lb} *2

*1: Lithium-ion battery: Product name: OT-BY60II, Trade name: Seiko Epson Corporation
For the battery specifications, see its User's Manual.

*2: Battery and belt clip included; roll paper excluded