# User’s Manual

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Before Use

Please read this manual carefully before using this product. Keep this manual at hand for immediate reference whenever necessary. For details about the functions and operation procedure of this product and software, refer to Technical Reference Guide.

Key to Symbols

The symbols shown below are used in this manual in order to ensure safety and proper use of this product and to prevent danger to customers and other persons, and property damage. The symbols indicate the precaution levels as described below. Be sure that you completely understand their meaning before reading this manual.

⚠️ WARNING:
Handling the product improperly by ignoring this symbol can lead to death or serious injury.

⚠️ CAUTION:
Handling the product improperly by ignoring this symbol can lead to injury and property damage.

_note:
Provides important information and useful tips.

Safety Precautions

⚠️ WARNING:
Be sure to use the specified AC adapter. Connection to an improper power source may cause fire.

Caution Labels

The caution labels on the product indicate the following precautions.

⚠️ CAUTION:
Do not touch the thermal head during printing or immediately after printing. After printing, the thermal head can be very hot.

⚠️ CAUTION:
Touching the manual cutter may cause injury.
**Part Names and Functions**

1. **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 details on functions that use the NFC tag, see the Technical Reference Guide.

2. **Roll paper cover**
   Open this cover to install/replace the roll paper.

3. **Manual cutter**
   Use this cutter when you cut the roll paper manually.

4. **Cutter cover**
   Open this cover to unlock the autocutter blade when the roll paper cover does not open due to a paper jam.

5. **Power switch**
   Use this switch to turn on or off the printer.

6. **Connector cover**
   Use the printer with this cover attached to protect cables.

7. **Cover open button**
   Use this button to open the roll paper cover.

8. **Dip switch cover**
   Open the cover to view the dip switches for communication settings. Do not change the DIP switch settings.
Control Panel

1 (Power) LED
This LED is on when the printer is on.

2 (Error) LED
This indicates an error.

3 (Paper) LED
On indicates a paper near end or out. Flashing indicates standby.

4 Feed button
Press this button once to feed the roll paper for one line. Hold down this button to continue feeding the roll paper.
**Interface**

All the ports and connectors are located on the back of the printer.

1. **Drawer kick connector**
   - Connects the modular cable for the cash drawer.

2. **Ethernet port**
   - Connects the 10 BASE-T/100 BASE-TX LAN cable.

3. **Serial port**
   - Use only for connecting external devices.

4. **USB Type A port**
   - Use only for connecting external devices.
   - **CAUTION:** *It may be hard to disconnect some types of USB cable. Do not forcibly pull the cable, or the USB port and USB cable may be damaged. Contact your dealer if you encounter the trouble.*

5. **USB port with charging function**
   - Connects a USB cable for connecting to an external USB device, or for charging a connected smart device or USB device. By using the setting utilities, you can configure whether to use the port for connecting a device or charging a device.
   - **CAUTION:** *It may be hard to disconnect some types of USB cable. Do not forcibly pull the cable, or the USB port and USB cable may be damaged. Contact your dealer if you encounter the trouble.*

6. **Power supply connector**
   - Connects the DC cable for the AC adapter.

7. **USB Type B port**
   - Connects the USB cable for connecting to computers.
Setup

Installing the Printer

Install the printer horizontally on a flat surface.

Connecting the AC Adapter

⚠️ WARNING:

Be sure to use the specified AC adapter [AC adapter,V (Model: M344A)]. Connection to an improper power source may lead to equipment damage, fire, or electric shock.

1. Make sure the printer is turned off.
2. Connect the DC cable of the AC adapter to the power supply connector (stamped 24V).
3. Connect the AC cable to the AC adapter.
4. Connect the AC cable plug to a power outlet.
Connecting External Devices

If you connect external devices, connect each cable to the port/connector on the back of the printer. (☞ “Interface” on page 5)

⚠️ CAUTION:

⚠️ When connecting external devices to the USB ports, follow the precautions below.

- Confirm the rated current of the external devices by checking the descriptions on the devices or manuals. Connect the external devices only when those total rated current is less than 2.0 A. Do not use a device whose rated current is unclear.
- Use UL-approved external devices (only for North American users).

⚠️ When charging smart devices or USB devices from the USB port with charging function, make sure you use the genuine cable for the device you are using.

⚠️ When Ethernet cables are installed outdoors, make sure devices without proper surge protection are cushioned by being connected through devices that do have surge protection. Otherwise, the devices can be damaged by lightning.

⚠️ It may be hard to disconnect some types of USB cable. Do not forcibly pull the cable, or the USB port and USB cable may be damaged. Contact your dealer if you encounter the trouble.

Attaching the Connector Cover

Follow the steps below to attach the connector cover to protect the cables.

1. Turn over the printer.
2. Position the two hooks on both sides of the connector cover so that they hook the printer case.
3. Push the connector cover down to click onto the printer case.

![Diagram of connector cover being pushed down]

**Note:**
- You can use the enclosed screw to fix the connector cover.

![Diagram showing screw being used]

- To remove the connector cover, turn the printer over, remove the screw, and push the connector cover down while pushing both sides of the connector cover inward to detach the hooks from the printer case.

![Diagram showing removal process]
**Arranging the Cables**

Pass the cables through cable exits in the connector cover.
Some cables can be routed out from the front by passing them through the notch in the printer bottom.

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**Note:**

- When using cables without lock, use of the bundled cable lock band is recommended.

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- You can also attach bottom cover to hide connectors.
After the cable arrangement, turn over the printer, and make sure the cables are not pinched.

**Attaching the Power Switch Cover**

By attaching the power switch cover, you can prevent accidental operations of the power switch. You can turn on and off the power switch by inserting a sharp-pointed object in the holes on the power switch cover. To detach the cover, use a sharp-pointed object.

To use this cover, install it as shown in the illustration below.

⚠️ **WARNING:**

*If an accident occurs with the power switch cover attached, unplug the power cord immediately. Continued use may cause fire or shock.*
Changing the Paper Width

You can change the paper width from 80 mm to 58 mm by installing the roll paper guide. Follow the steps below to change the paper width.

1. Turn off the printer.
2. Open the roll paper cover.
3. Install the roll paper guide so that the protrusion on the roll paper holder is aligned with the hole on the printer.

Note:
You can use the enclosed screw to fix the roll paper guide.

4. Install the roll paper correctly.
5. Close the roll paper cover.

CAUTION:
- If you once use the printer with 58 mm paper roll, you cannot change it back to 80 mm.
- You need to set with the memory switch (customized values) for the paper width in Software Setting mode. For information about the memory switch, see the Technical Reference Guide.
Installing/Replacing the Roll Paper

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

1. Open the roll paper cover.

2. Remove the used roll paper core if any.

3. Install the roll paper in the correct direction.
4. Pull out some paper, and close the roll paper cover.

5. Tear off the paper.
Cleaning the Product

Cleaning the Printer Case

Be sure to turn off the printer, and wipe the dirt off the printer case with a dry cloth or a damp cloth.

⚠️ CAUTION:
Never clean the product with alcohol, benzine, thinner, or other such solvents. Doing so may damage or break the parts made of plastic and rubber.

Cleaning the Thermal Head and the Platen Roller

Epson recommends cleaning the thermal head to maintain receipt print quality. We recommend cleaning periodically (about once every 3 months).

Depending on the roll paper used, paper dust may stick to the platen roller and the paper may not be fed correctly. To remove the paper dust, clean the platen roller with a cotton swab moistened with water. Turn on the product power only after the water has completely dried.

⚠️ CAUTION:

- After printing, the thermal head and its surroundings (indicated in the circle in illustration below) 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.

1. Turn off the printer.
2. Open the roll paper cover.
3. Clean the thermal elements of the thermal head and the platen roller with a cotton swab moistened with an alcohol solvent (ethanol or IPA).

![Diagram of cleaning thermal head and platen roller]

a. thermal head
b. platen roller
Troubleshooting

No lights on the control panel

Check whether the power supply cable is correctly connected to the printer and the socket.

! (Error) LED on with no printing

☐ Check whether the roll paper cover is closed. If it is open, close the cover.

☐ If the 🎀 (Paper) LED is on, check whether the roll paper is correctly installed and any roll paper remains.

! (Error) LED flashing with no printing

☐ Check whether a paper jam has occurred. If paper is jammed, remove the jammed paper referring to the description below and install the roll paper correctly.

☐ Printing stops if the head overheats and resumes automatically when it cools.

☐ For other cases, turn the printer off, and after 10 seconds, turn the printer back on.

Removing Jammed Paper

When a paper jam occurs, never pull out the paper forcibly. Open the roll paper cover and remove the jammed paper.

⚠️ CAUTION:

Do not touch the thermal head and the frame around it (indicated in the circle in the illustration below) because it can be very hot after printing.

If the roll paper cover does not open, follow the steps below.

1. Turn off the printer.
2. Slide the cutter cover toward the front to open it.

3. Turn the knob until you see a triangle in the opening. This returns the cutter blade to the normal position. There is a label near the cutter to assist you.

4. Close the cutter cover.

5. Open the roll paper cover and remove the jammed paper.
# Product Specifications

<table>
<thead>
<tr>
<th>Printing method</th>
<th>Thermal line printing</th>
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</thead>
<tbody>
<tr>
<td><strong>Roll paper</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Paper width</strong></td>
<td>80 mm paper width setting: 79.5 mm ± 0.5 mm (3.13” ± 0.02&quot;)&lt;br&gt;58 mm paper width setting: 57.5 mm ± 0.5 mm (2.26” ± 0.02&quot;)</td>
</tr>
<tr>
<td><strong>External diameter</strong></td>
<td>Maximum 83 mm (3.27&quot;)</td>
</tr>
<tr>
<td><strong>Core internal diameter</strong></td>
<td>12 mm (0.47&quot;)</td>
</tr>
<tr>
<td><strong>Core external diameter</strong></td>
<td>18 mm (0.71&quot;)</td>
</tr>
<tr>
<td><strong>Interface</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>USB: USB 2.0 Full-speed (12 Mbps)&lt;br&gt;Ethernet: 10BASE-T/100BASE-TX&lt;br&gt;Wireless LAN: Connect the optional Wireless LAN unit to the USB connector.</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>AC ADAPTER,V (DC24V, 2.6A)</td>
</tr>
<tr>
<td><strong>Current consumption</strong></td>
<td>2.6 A</td>
</tr>
<tr>
<td><strong>AC power consumption</strong>&lt;sup&gt;2&lt;/sup&gt; (100 V to 230 V/50 to 60 Hz)</td>
<td>Operating: Approx. 32.0 W&lt;br&gt;Standby: Approx. 3.0 W</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>Operating: 5 to 45°C (41 to 113°F)&lt;br&gt;Storage: −10 to 50°C (14 to 122°F), except for paper</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>Operating: 10 to 90% RH&lt;br&gt;Storage: 10 to 90% RH, except for paper</td>
</tr>
<tr>
<td><strong>Overall dimensions</strong></td>
<td>148 × 145 × 195 mm [5.83 × 5.71 × 7.68&quot;] (H × W × D)</td>
</tr>
<tr>
<td><strong>Weight (mass)</strong></td>
<td>Approx. 1.6 kg (3.5 lb)</td>
</tr>
</tbody>
</table>

*1: The available interfaces vary by the printer model.<br>*2: This is the average power under our operation conditions. It varies depending on the conditions of use and the model.
Appendix

Downloading Software and Manuals
The latest versions of SDK, 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:
https://download.epson-biz.com/?service=pos

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For “xxx.xxx.xxx.xxx” in the above URL, input your printer’s IP address.

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