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**What's in the Box**

- Printer
- Setup Guide
- Small thermal paper roll (for operational testing)
- AC cable
- CD (includes drivers, utilities, and manuals)
- Power switch cover
- 58 mm width roll paper guide
- USB cable*
- Ethernet cable*

* May be included depending on the SKU.

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**Printer Specifications**

**Printing**
- Print method: thermal line printing
- Dot density: 203 dpi × 203 dpi (dpi = dots per inch [25.4 mm])
- Print width: 2.83" (72 mm), 576 dots
- Characters per line: font A: 48, font B: 64 (80 mm)
  - font A: 35, font B: 46 (58 mm)
- Print direction: unidirectional with friction feed
- Print speed: 7.87"/sec. (200 mm/sec.) maximum
- Paper feed speed: approx. 7.87"/sec. [200 mm/sec.] (continuous paper feed)
- Character sets: alphanumeric: 95 characters; international: 18 sets; extended graphics: 128 × 43 pages (including user-defined page)

**Interfaces**
- Built-in: USB and serial, or Ethernet

**Media**
- Paper type: thermal roll paper
- Paper size: 80 or 58 mm wide

**Supported media:**

<table>
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<th>Part number</th>
<th>Manufacturer</th>
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<tr>
<td>TF50KS-E</td>
<td>NIPPON Paper Industries Co., Ltd.</td>
</tr>
<tr>
<td>PD150R</td>
<td>Kanzaki Specialty Papers</td>
</tr>
<tr>
<td>PD160R</td>
<td>Jujo Thermal Oy</td>
</tr>
<tr>
<td>PD190R</td>
<td>Mitsubishi Paper Mills Limited.</td>
</tr>
<tr>
<td>P220AGB-1</td>
<td>Mitsubishi HiTec Paper Flensburg GmbH</td>
</tr>
<tr>
<td>F5041</td>
<td></td>
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</table>
Reliability

Thermal head: 100 million pulses, 100 km
Mechanism: 15 million lines
Autocutter: 1.5 million cuts
MTBF: 360,000 hours
MCBF: 60 million lines

Safety

EMI: FCC Class A
CAN ICES-3(A)/NMB-3(A)
Safety standards: UL60950-1
CSA C22.2 No 60950-1

Dimensions

Dimensions
(H x W x D): 5.75" x 5.51" x 7.83"
(146 mm x 140 mm x 199 mm)
Weight: approx. 3.74 lb (1.7 kg)

Memory Switches/
Receipt Enhancement Functions

Use the TM-T20II Utility, Memory Switch Setting Mode, or ESC/POS commands to set the memory switches and receipt enhancement functions listed below. See your TM-T20II documentation for more information.

Memory switches

- Receive buffer capacity
- BUSY condition
- Processing when data receive error
- USB power-saving function
- Release condition of receive buffer BUSY
- Paper width
- Print density
- Print speed
- Character code table default
- International character default
- Interface selection
- Power supply unit capacity
- Number of columns
- Autocutting after closing cover
- Paper reduction
- Font A auto replacement
- Font B auto replacement
- Optional buzzer
- Logo 180 dpi emulation mode
- Communication condition of serial interface
- Communication condition of USB interface
- Auto top logo
- Auto bottom logo
- Auto top/bottom logo extended functions

Control Panel

(LED) (Power) LED
On when the power is on.

Note: Turn off the printer before opening the printer cover.

Error LED
Steadily on when the printer is offline. Blinking if there is an error. See if the printer cover is open. Turn the printer off for a few seconds, then turn the printer back on. If the LED is still blinking, contact a dealer or qualified service person.

Paper LED
Comes on when roll paper is low or out. Flashes when the printer is performing a self-test.

Feed button
Pressing this button once feeds paper by one line. Holding this button down feeds paper continuously.

Loading Paper

Warning: To avoid injury, do not touch any part of the printer other than the roll paper when the printer cover is open.

Caution: Do not open the printer cover when the printer is printing or feeding paper; you may damage the printer. Only use paper that meets specifications, and do not use rolls that have the paper glued onto the core.

1. Turn off the printer.
2. Press the cover open lever to open the printer cover.

3. Remove the used roll paper core, if there is one, and insert the roll paper in the direction shown below.

4. Pull out some paper and close the roll paper cover. When the printer is powered on, the paper is automatically cut.

---

**Removing a Paper Jam**

**Warning:** The thermal head can be very hot after printing. Let it cool before you remove the jammed paper. To avoid injury, do not touch any part of the printer other than the roll paper when the printer cover is open.

1. Turn off the printer.
2. Press the cover open lever to open the printer cover.
3. Remove the jammed paper, then reinstall the roll paper.
4. Close the printer cover.

---

**Cleaning the Thermal Head**

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

**Warning:** The thermal head can be very hot after printing. Let it cool before you clean it. To avoid injury, do not touch any part of the printer other than the roll paper when the printer cover is open.

**Caution:** Do not touch the thermal head with your fingers or any hard object; you may damage the printer.

1. Turn off the printer.
2. Press the cover open lever to open the printer cover.
3. Clean the thermal head with a cotton swab moistened with an alcohol solvent (ethanol or isopropyl alcohol).

---

**Testing the Printer**

Follow these steps to perform a self-test:

1. Make sure the printer is off and the printer cover is closed.
2. Press and hold the **Feed** button and turn on the printer. The printer prints its status and the **Paper** LED begins flashing.
3. To continue the self-test, press the **Feed** button for less than 1 second.

The self-test is complete when *** completed *** is printed.

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