

# Epson TM-P80II Plus Thermal Receipt Printer for Oracle

## Setup Guide



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Epson TM-P80II Plus Thermal Receipt Printer for Oracle Setup Guide,

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# 1

## Preface

The Epson TM-P80II Plus is a compact 3-inch (80mm) thermal receipt printer that features both Bluetooth® and IDN over USB-C connectivity. The IDN over USB-C interface allows for direct connection from the printer to the Oracle workstation without requiring an external power supply. The compact design of the Epson TM-P80II Plus makes it the ideal solution for locations with limited counter space and access to power outlets.

The Epson TM-P80II Plus printer also includes multilingual fonts. This setup guide describes the unique features and setup required for operation specific to Oracle and multilingual printing from Oracle Food & Beverage point of sale applications. Multilingual printing can be accomplished using the native Bluetooth interface. All multilingual fonts and Unicode command sets are now printer-resident and pre-loaded at the factory.

## Audience

This document is intended for those who will set up, install, and operate the Epson TM-P80II Plus Thermal Receipt Printer.

## Important Information

Additional information regarding integration with the POS system or other related software applications can be obtained from the respective application guides. The Epson User and Technical Reference Guide should also be referenced to understand the standard features of the printer.

The following product specifications and/or manual content may be changed by Oracle or Epson without prior notice.

## Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL: <https://support.oracle.com>.

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to recreate
- Exact error message received
- Screenshots of each step you take

## Documentation

Oracle Food and Beverage product documentation is available on the Oracle Help Center at <http://docs.oracle.com/en/industries/food-beverage/>

Epson TM-P80II Standard documentation is available from Epson's website at:

<https://epson.com/For-Work/Printers/POS/Mobilink-TM-P80II-Plus-3%22-Wireless-Portable-Receipt-Printer-with-Auto-Cutter/p/C31CK00A9971>

Epson TM-P80II Installation Guide: <https://files.support.epson.com/docid/cpd6/cpd62879.pdf>

Epson TM-P80II Auto Cutter Model User Manual: <https://www.epson-biz.com/manuals/tm-p80iiac/en/index.html>

Epson Technical Reference Guide: [https://files.support.epson.com/pdf/pos/bulk/tm-p80iiac\\_trg\\_en\\_reva.pdf](https://files.support.epson.com/pdf/pos/bulk/tm-p80iiac_trg_en_reva.pdf)

## Epson Software Downloads

Epson P80II Auto Cutter Model Compatible Software components and the TM-P80II Utility can be downloaded at <https://support.epson.net/setupnavi/?PINF=swlist&OSC=WS&LG2=EN&MKN=TM-P80II%20Auto%20Cutter%20Model>

## Revision History

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Date	Description of Change
May 2024	<ul style="list-style-type: none"><li data-bbox="878 947 1370 987">Initial publication.</li></ul>

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# 2

## Epson TM-P80II Plus Features

- Small form factor 80mm (3") thermal receipt printer
- USB-IDN connectivity with the USB-C cable
- Single cable connectivity for fixed workstations
- Unicode (UTF-16) Agfa multilingual fonts and Epson native Kanji multilingual fonts preinstalled on the printer (firmware version 1.02B or above is required)
- IP54 compliant water and dust resistance
- Belt clip for improved portability in a mobile environment
- Approximately 34 hours battery runtime with Bluetooth
- Optional wall/countertop mount

### Oracle Part Numbers and Descriptions

- **Oracle Marketing Part Number:** 7607103 **Description:** Epson Mobilink TM-P80II Plus thermal receipt printer with 3-inch paper width, Bluetooth and USB-C connectivity, USB-C cable, battery, and belt clip.
- **Oracle Marketing Part Number:** 7607106 **Description:** Mounting bracket for Epson Mobilink TM-P80II Plus thermal receipt printer.
- **Oracle Marketing Part Number:** 7622619 **Description:** USB cable with down angle connector for Epson Mobilink TM-P80II Plus thermal receipt printer with mounting bracket: 2.4 feet.

### What's in the Printer Box

Each printer box contains the following items:

- TM-P80II Plus printer
- Battery
- Sample roll paper
- 3 foot USB-C straight angle cable (Type-C to Type-C)
- Belt clip
- Epson Setup Guide

### Before Use

Refer to the [Epson TM-P80II User's Manual](#) to get acquainted with the part names and functions of the printer. The manual describes basic setup, paper installation, and printer cleaning. For details about the functions and operating procedures of this product and other Epson related software, refer to the [Technical Reference Guide](#).

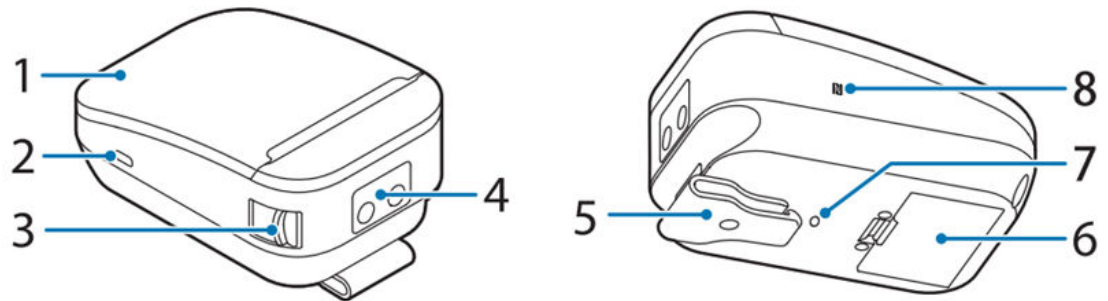
## Printer Specifications

**Table 2-1 Technical Specifications for the Epson TM-P80II Plus**

Feature	Description
<b>Printing Method</b>	Thermal line printing
<b>Max Print Speed</b>	100 mm/s (3.94 in./s) (when not using the anti-curl function)
<b>Roll paper</b>	<b>Paper Width</b> 80 mm paper: 79.5 mm ± 0.5 mm (3.13" ± 0.02")
	<b>External Diameter</b> Maximum 51 mm (2.01")
	<b>Core Outside Diameter</b> At least 18 mm (0.71")
	<b>Core Inside Diameter</b> At least 12 mm (0.47")
<b>Paper Thickness</b>	5 µm at maximum, 50 µm at minimum
<b>Oracle Supported Interfaces</b>	IDN over USB Bluetooth
	USB-C Bluetooth 5.0 Dual Mode
<b>Battery (OT-BY80II)</b>	Rated voltage: 7.2 VDC Capacity: Typ. 1950 mAh, Min. 1850 mAh Number of charge/discharge cycles): 500 cycles
<b>USB Charging</b>	Minimum Output 5.0 V/0.5A Maximum Output 5.0V/8.0A
<b>Wireless Charging</b>	3 to 6 hours (depending on the specifications of your wireless charger)
<b>Operating Temperature on Battery &amp; USB Adapter</b>	Temperature: -15 to 50°C (5 to 122°F) (Print quality is not guaranteed)
<b>Battery Operating Temperature</b>	Discharge: -20 to 55°C (-4 to 131°F) Charging: 0 to 40°C (32 to 104°F)
<b>Humidity</b>	Operating: 10 to 90% RH Storage: 10 to 90% RH, except for paper
<b>Overall dimensions</b>	Approximately 105 x 153.4 x 66.9 mm (4.13 x 6.04 x 2.63 in.) Dimensions with belt clip removed.
<b>Weight (mass)</b>	Approximately 511g (1.13 lb) Excluding the belt clip and paper
<b>MTBF</b>	120,000 Hours

## Epson TM-P80II Plus Basic Features

Figure 2-1 Epson TM-P80II Plus Basic Features

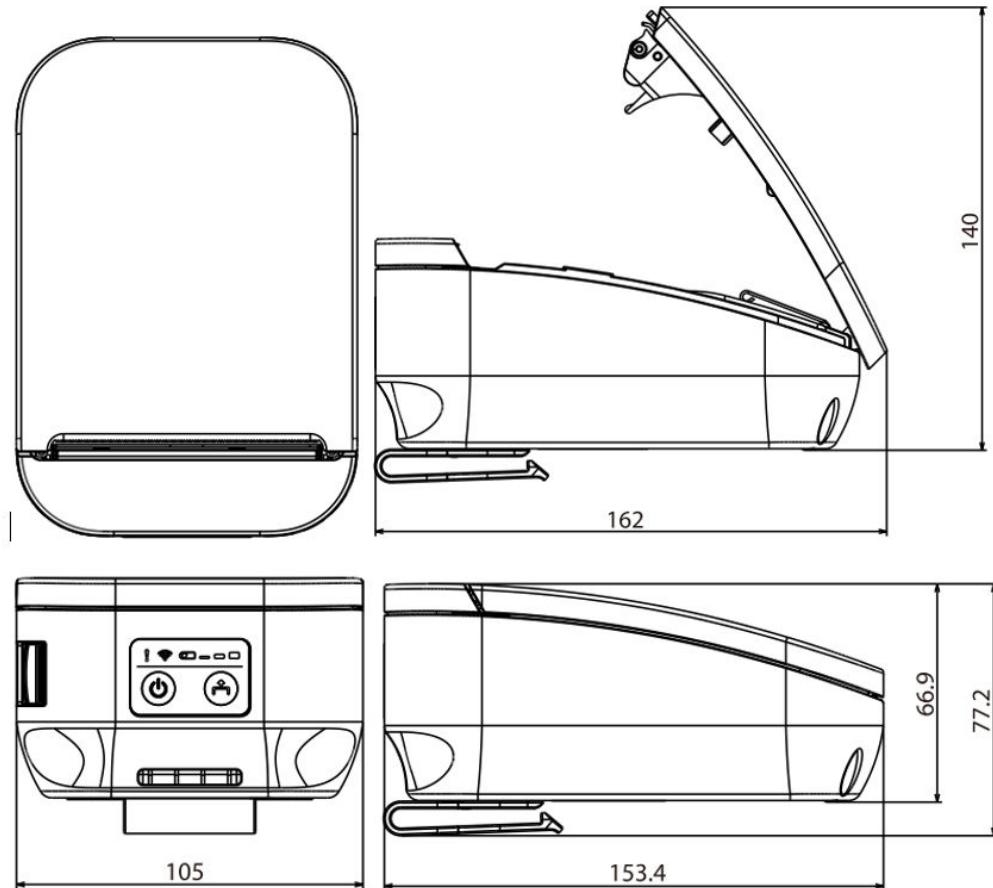


1. Roll paper cover
2. USB-C connector
3. Cover open lever
4. Operation panel
5. Belt clip
6. Battery
7. Wireless charging position
8. NFC tag



## Printer Dimensions (Units:mm)

Figure 2-2 Epson TM-P80II Dimensions



# 3

## Printer Self-Test and Default Settings

### Printer Self-Test

The printer provides a self-test operation which checks the operation of the printer hardware and reports current operating parameters.

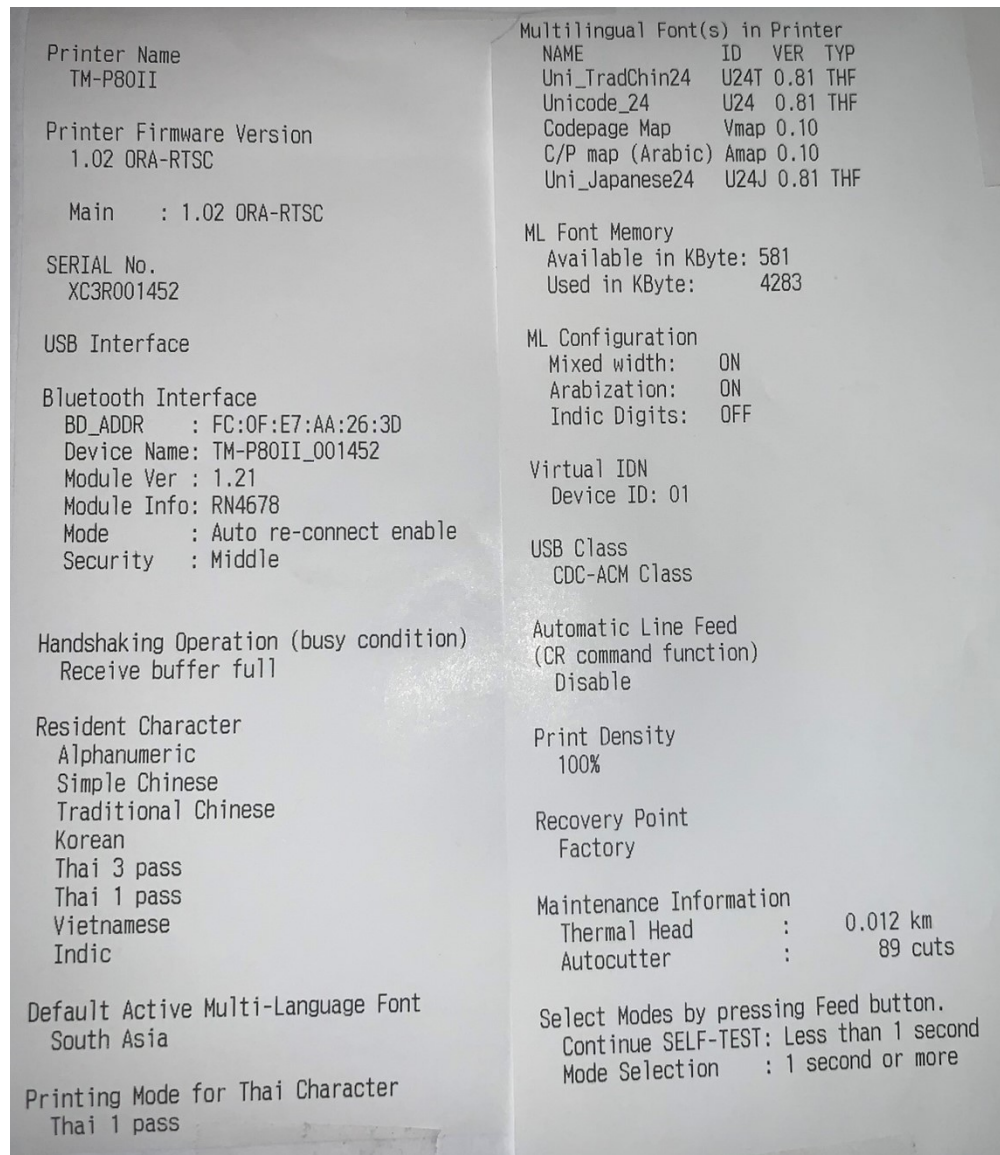
#### Start the Self-Test

To start the self-test operation, close the roll paper cover, and then hold the **Feed** button while powering up the printer.

You can check the following items using the self-test:

- Product name
- Firmware version
- Product serial number
- Interface type
- Resident fonts
- Maintenance counter information (head running length, number of times of autocutting)
- Memory switch settings

To continue the self-test, briefly press the **Feed** button (less than one second). The printer prints a rolling pattern on the roll paper using the built-in character set. After **\*\*\* completed \*\*\*** prints, the printer initializes and switches to standard mode.

**Figure 3-1 Self-Test Results****Printer Default Settings**

The TM-P80II has many settings that can be configured for individual preference. Because the paper capacity is limited, Oracle has changed some of the standard factory defaults to minimize paper use and be more Eco friendly. This provides a 71% increase in the number of checks per roll vs the standard factory default configuration. Standard factory defaults were also changed to improve battery life. The battery charging and operational limits were also changed. Listed below are the new settings from the factory. The complete list can be viewed in [Epson's Technical Reference Guide](#).

1. Automatic Paper Reduction
  - a. Upper Margin = Enable
  - b. Lower Margin = Enable

- c. Blank Line Spacing = 75%
- d. Blank Space = 75%
- e. Character Height
  - >Inner Spacing (75% reduction of inner spacing)
- 2. CDC ACM Class = Enabled
- 3. Buzzer Control
  - a. Low battery warning = Enable
  - b. Roll paper end warning = Enable
  - c. Error Occurrence warning = Enable
- 4. Desktop Mode = On
- 5. Battery Charge Mode: Mode 2 – Charging is performed when the remaining battery power drops to approximately 67%
- 6. Operation Mode When the Battery is Low: Mode 2 – Printing stops when the remaining battery level falls below approximately 10%

Figure 3-2 Printer Default Settings Confirmation

Current Settings	<b>10.Interface Settings</b>
<b>2.Print Density</b>	10.5.USB Interface Settings
2.1.Monochrome	10.5.1.Class
> 100%	> CDC ACM Class
<b>3.Print Speed</b>	10.5.2.IEEE1284 Device ID
> Level10	> Output IEEE1284 Device ID
<b>4.Automatic Paper Reduction</b>	10.5.3.USB power-saving function
4.1.Upper Margin	> Disable
> Enable	10.6.Interface switch waiting time
4.2.Lower Margin	> 10 sec
> Enable	10.7.Main connection interface
4.3.Blank Line Spacing	> Auto
> 75%	10.8.Auto Line Feed
4.4.Blank Space	> Always disabled
> 75%	10.9.Output Paper-end Signals
4.5.Barcode Height	> Enable
> Not Reduce	10.10.Error Signal Output
4.6.Character Height	> Enable
> Inner Spacing	<b>12.Command Execution (Offline)</b>
<b>5.Auto Paper Feed&amp;Cut at cover close</b>	> Enable
> Enable	<b>14.Other Settings</b>
<b>8.Character/Font Settings</b>	14.2.Column Emulation
8.1.Default Character Code Page	> 48 Column mode
> Page0:PC437(USA,Standard Europe)	14.4.NV Capacity
8.2.Default International Character Set	14.4.1.User NV Memory
> USA	> 1KB
8.3.Thai Character Composition	14.4.2.NV Graphics Memory
> 1 Pass	> 384KB
8.4.Embedded Font Replacement	<b>14.5.Buzzer Control</b>
8.4.1.Font A Replacement	14.5.9.Low battery warning
> Font A(No Replacement)	> Enable
8.4.2.Font B Replacement	14.5.10.Roll paper end warning
> Font B(No Replacement)	> Enable
8.5.Multi-Language Font	14.5.11.Error occurrence warning
> Thai, Vietnam	> Enable
8.6.Font Priority	14.8.Virtual IDN
0.ANK	14.8.1.Device ID
> 1.Japanese	> Device ID 1
2.Korean	14.9.Transmission of status information
3.Traditional Chinese	> Disable
4.Simplified Chinese	14.10.Auto power off
<b>9.Interface Selection</b>	> Disable
> Multiple	14.11.Paper Position at Power On
	14.11.1.Function Select
	> Disable
	14.11.2.Position Select
	> Top Position
	<b>14.12.Desktop Mode</b>
	> ON

# 4

## Printer Connection to the Host

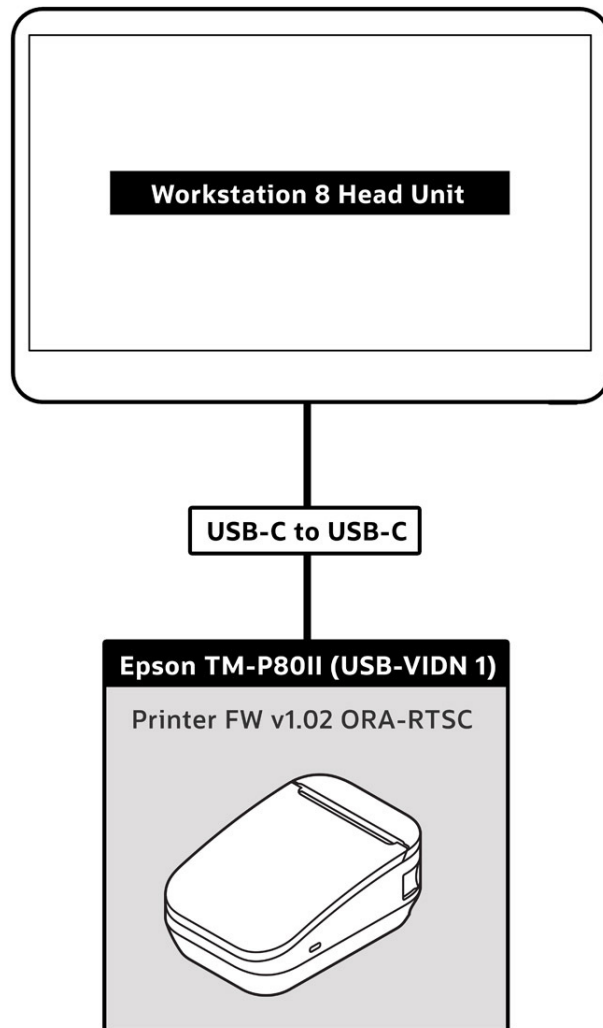
The TM-P80II is capable of Bluetooth communication. In addition, custom firmware gives the printer the capability to communicate IDN over USB using the printers USB-C connection port with the supplied USB cable. This section describes both communication methods. You can also refer to the Epson TM-P80II [Technical Reference Guide](#) for further connection details.

### USB-IDN Communication

Starting with printer firmware v1.02 ORA-RTSC and Symphony 19.6 you can connect the TM-P80II printer to an Oracle Workstation 8 using a USB-C cable. This can be accomplished using the one that came with the printer or with the mounting bracket. An available USB-C port is all that is required at the workstation. Future updates will be provided to support this functionality with the Workstation 6 Series and Compact Workstation 3 Series.

- Requirements: TM-P80II Printer Firmware v1.02 ORA-RTSC or greater, Symphony 19.6 or greater.
- The TM-P80II USB port is configured as CDC-ACM Class which creates a virtual serial connection over the USB interface. The firmware accepts IDN commands over this virtual serial connection.
- The Workstation 8 recognizes the USB connected TM-P80II with firmware and automatically assigns it to Com 9.
  - Any available USB-C port on the Workstation 820 System Unit or Peripheral Expansion Module can be used to connect the USB-IDN TM-P80II.
- Within Symphony, configure an IDN printer on Com 9 as IDN ID 1.

Figure 4-1 Workstation 8 Connection Diagram



#### P80II Connected Via Virtual IDN

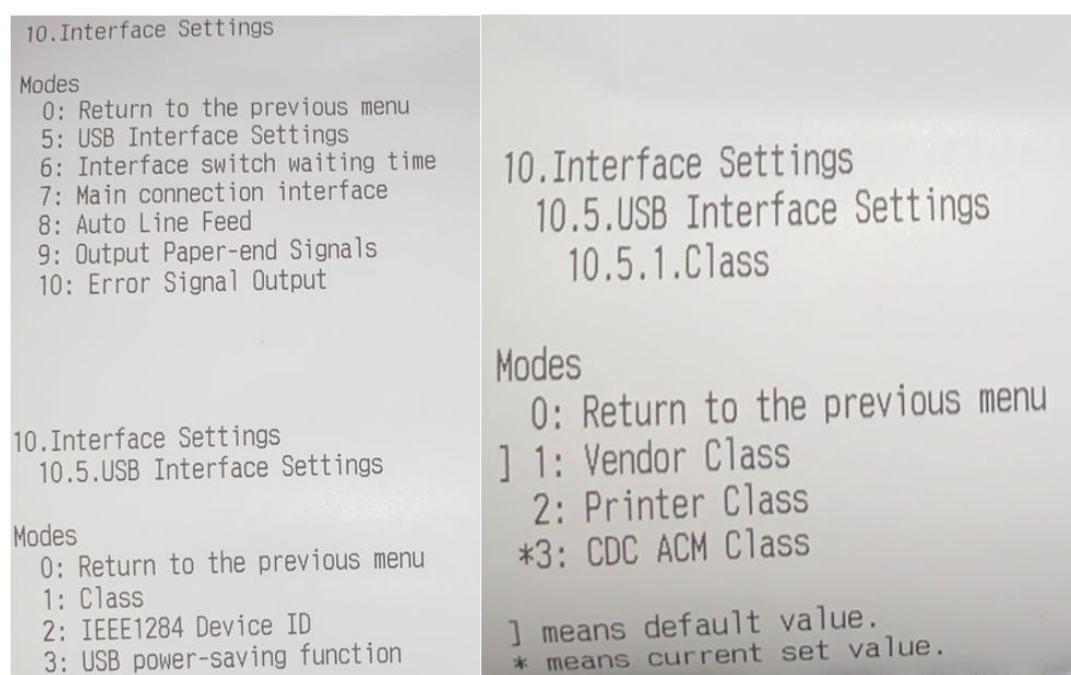
- Uses default virtual IDN #1 and configured as IDN ID #1 in Symphony EMC
- Printer Class set to CDC-ACM for virtual COM port 9
- Supports ML printing
- Supports all standard reporting (door open/paper out)
- Supports transparent mode

#### CDC-ACM

The TM-P80II USB interface is configured by default as a CDC-ACM class in order to create a virtual serial communication connection between the workstation and printer. TM-P80II firmware allows the printer to recognize IDN commands sent over this virtual serial communication connection. CDC-ACM class can be selected by an ESCPOS command, or by the printer panel operation as detailed below.

**Selecting CDC-ACM class using printer panel:**

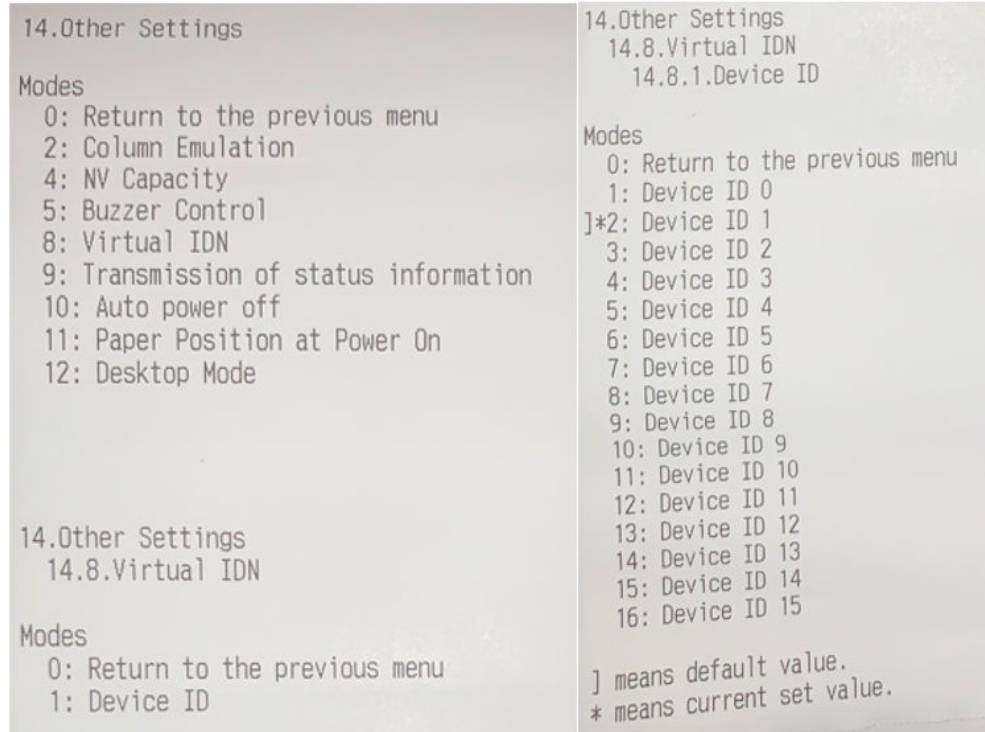
1. Hold the feed button while powering up the printer. This will print the self test sheet.
2. Press and hold the feed button until the next sheet prints.
3. Follow the instructions at bottom of the sheet to select **3. Customize Value Settings**.
4. Follow the instructions at bottom of the sheet to select **10. Interface Settings**.
5. Select **5: USB Interface Settings**, then **1: Class**.
6. Choose **3: CDC ACM Class**.
7. Cycle power to the printer.

**Figure 4-2 CDC-ACM Confirmation****USB-IDN Device ID**

By default the Virtual IDN Device ID is set to 1 and should be left as is. If necessary, it can be changed using the printer panel:


1. Hold the feed button while powering up the printer. This will print the self test sheet.
2. Press and hold the feed button until the next sheet prints.
3. Follow the instructions at bottom of the sheet to select **3. Customize Value Settings**.
4. Follow the instructions at bottom of the sheet to select **14. Other Settings**.
5. Select **4. Virtual IDN**, then **1** for **Device ID**.
6. Choose the desired device ID from the list.
7. Cycle printer power.



**Figure 4-3 USB-IDN Device ID Change Confirmation**

## Bluetooth Connection

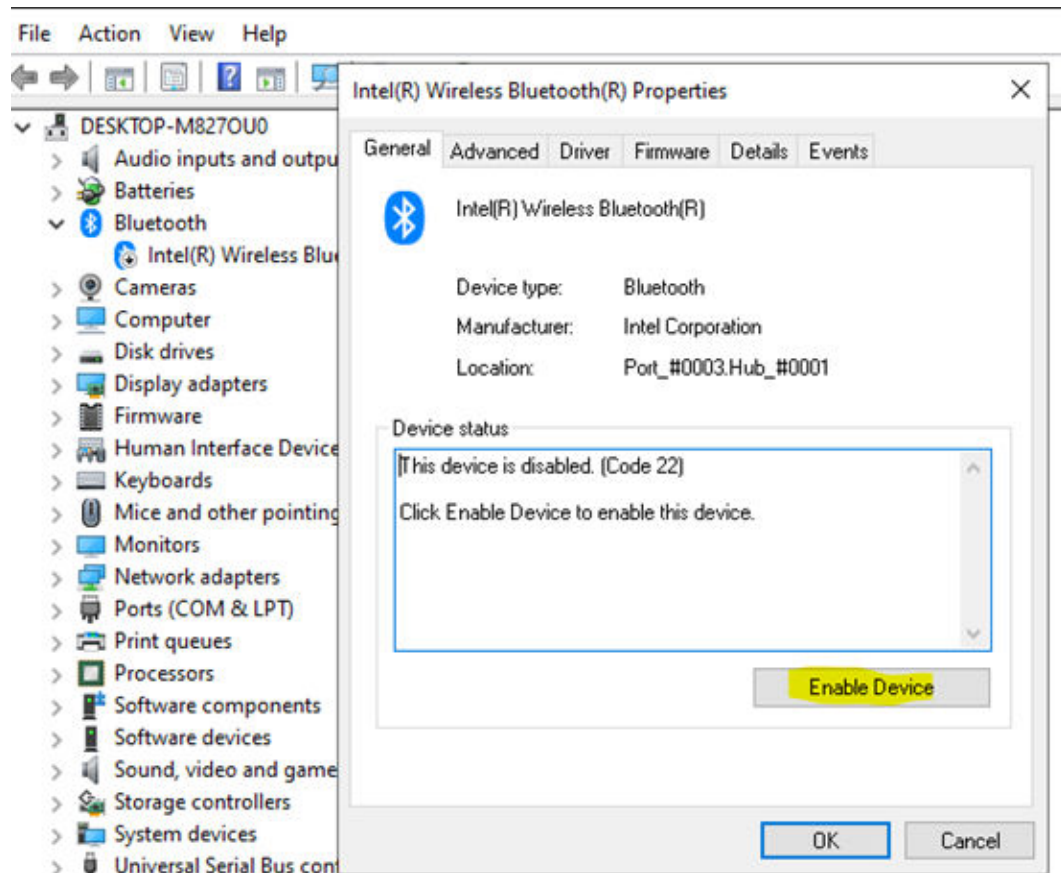
### Turn on Printer Bluetooth Discovery for Pairing

1. With printer powered on, open the roll paper cover.
2. With the roll paper cover open, press and hold the **Feed** button for about one second until the buzzer sounds, then release it.
3. Close the roll paper cover.
  - a. A message that starts with `Next Action` prints.
4. Select [**Bluetooth Status sheet**]. Briefly press the **Feed** button (less than one second), and then hold down the button for at least one second.
  - a. A status sheet prints. The printer is now ready for pairing.
  - b. The printer can only be paired while the Bluetooth light  is blinking. (1 minute)

### Setting up Bluetooth from an Oracle Workstation Running Microsoft Windows

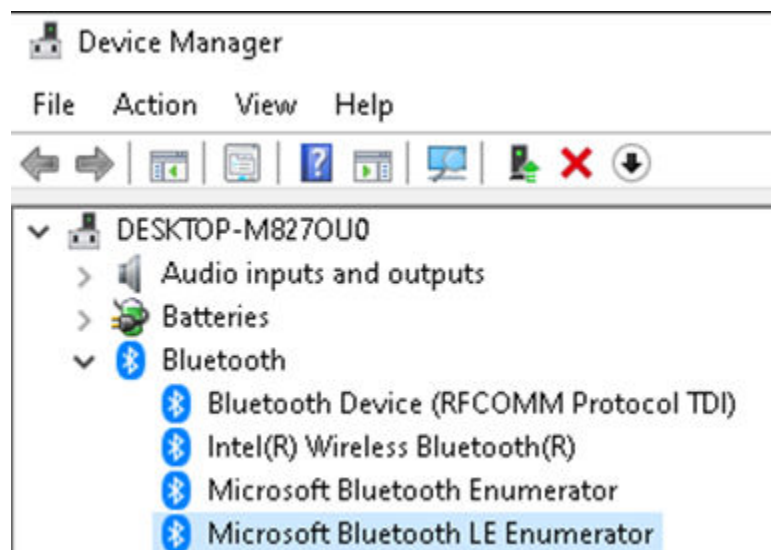
1. A new Oracle workstation will have Bluetooth disabled, and it must be enabled to allow for a Bluetooth connection to the printer.
2. Launch Device Manager and double-click the **Bluetooth** entry in the list to show the *Intel Wireless Bluetooth Properties*.
3. On the *General* tab, verify the device is disabled. If disabled, click **Enable Device**.

Figure 4-4 Enabling Bluetooth in Microsoft Windows

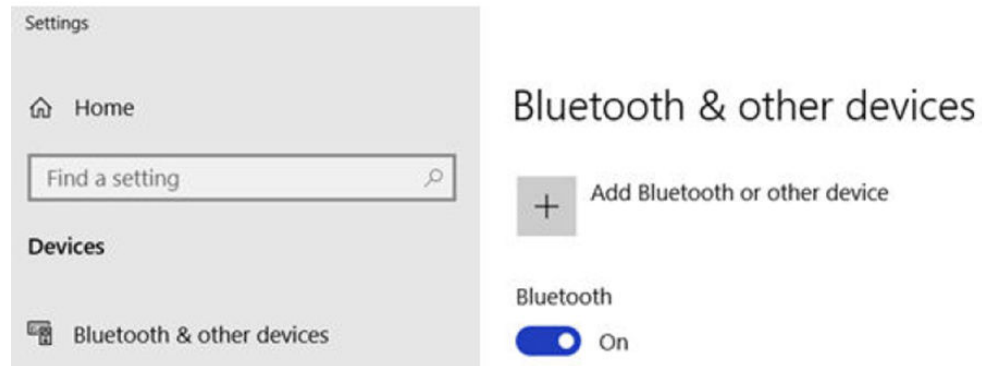


- There should now be four Bluetooth items listed under the *Bluetooth* option. Verify all four Bluetooth options are enabled.

Figure 4-5 Microsoft Windows Device Manager Bluetooth Options



- Now that Bluetooth is enabled, you can pair the printer with a Windows-based workstation. Under **Settings**, click **Add Bluetooth & other device**.

**Figure 4-6 Pairing the Printer in Microsoft Windows**

6. Search for TM-P80II\_xxxxxx. The "xxxxxxx" is the last six digits of the printer serial number.

#### Alternate Methods of Pairing the Printer

Pairing the printer is also possible by using EPSON TM Bluetooth Connector (Windows) or Epson TM Utility (Android). Both of these methods are described in detail in the Epson TM-P80II [Technical Reference Guide](#).

#### Note:

For optimal mobile operation using Bluetooth, change the *Battery Charge Mode* to **Mode 1** and **Disable Desktop Mode**. Both of these settings can be changed by using the Epson TM-P80II Utility. The *Battery Charge Mode* can also be changed using the buttons on the printer. These settings are described in detail in the Epson TM-P80II [Technical Reference Guide](#).

# 5

## Multilingual Support

The TM-P80II provides enhanced language support by adding the Unicode (UTF-16) Agfa fonts available through the USB-IDN interface. Fonts are maintained inside TM-P80II firmware in non-volatile memory. This is supported with Symphony using the USB-IDN interface connection to the printer.

The Epson-native Kanji fonts are also printer resident. Due to memory limitations, there are two separate Epson native firmware font files available. The first one listed is the factory default. The optional Epson native font file update package includes Japanese but removes the Simplified Chinese

### Font (Factory Default)

- Multilingual (UTF-16) Agfa Font set plus Epson native fonts that include Simplified Chinese, Traditional Chinese and Korean localization. There are no Japanese Epson native Fonts loaded in this factory default.

### Font (Optional)

- Multilingual Unicode (UTF-16) Agfa font set plus Epson native fonts that include Japanese, Traditional Chinese and Korean localization. There are no Simplified Chinese native Fonts in this optional Epson native font file. This update package can be obtained from Oracle Support.



#### Note:

Factory default and optional fonts are designed for thermal printers and feature a glyph size of 24 x 24.

### Epson Printer-Resident Fonts (Non-Symphony Language Support)

For applications other than Oracle Symphony, the printer's default Epson-native font may need to be changed. In this instance, the typical use case is when OPOS is utilized. Epson-native Kanji fonts, including Korean, South Asia, Traditional Chinese, Simplified Chinese, or Japanese, are preinstalled on the printer along with the Unicode (UTF-16) Agfa fonts. However, only one of the Epson-native Kanji fonts is activated and can be used for printing at a time. The default font can be selected through a control command or front panel button operation as described in the next section.

### Front Panel Configuration

TM-P80II printer provides a software setting mode through panel button operations. Refer to *TM-P80II Technical Reference Guide* for the complete list of the software settings available in this mode.

### Changing the Default Epson Native Font

1. Hold the **Feed** button while powering up the printer. This will print the self-test sheet.
2. Press and hold the **Feed** button until the next sheet is printed.

3. Follow the instructions at bottom of the sheet, to select **3. Customize Value Settings**.
4. Follow the instructions at bottom of the sheet, to select **8. Character/Font Settings**.
5. Select **5. Multi-Language Font**.
6. Select the region and then scroll down to select the desired character code page.
  - Factory default is Page0:PC437(USA, Standard Europe)
7. Cycle power to the printer.

### Multilingual Printing with Oracle Symphony

For information about multilingual printing in Oracle Symphony, refer to the Oracle Symphony Configuration Guide, Release 19.6.

### Windows Regional Language Setting for OPOS

If you want to print in a language other than the default English, you must also change the regional language setting in Microsoft Windows. If you are using OPOS in Oracle Symphony, you will need to change this regional language setting as well.

1. In Microsoft Windows, search for and open the **Region** settings.
2. Select the **Administrative** tab.
3. Under the *Language for non-Unicode programs* panel, select a language for the printer. This should match the language selected in the OPOS settings.

# 6

## Mounting Options for the TM-P80II

Oracle provides a mounting bracket (P/N 7622619) for the TM-P80II that can be set up as a desktop mount or a wall mount unit.

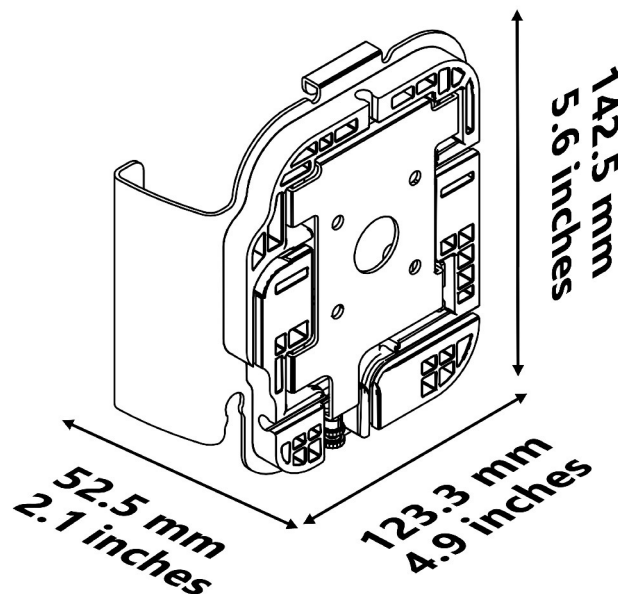
### Mounting Bracket for Epson Mobilink TM-P80II Plus Thermal Receipt Printer — What's in the Box

- 1x – Printer bracket
- 1x – Screw for attaching bracket to printer
- 1x – Hex key

 **Note:**

Printer cable ships in a separate box and must be ordered separately (P/N 7622619).

**Figure 6-1** Dimensions for Mounting Bracket for Epson Mobilink TM-P80II Plus Thermal Receipt Printer



### Installing the Mounting Bracket for Epson Mobilink TM-P80II Plus Thermal Receipt Printer

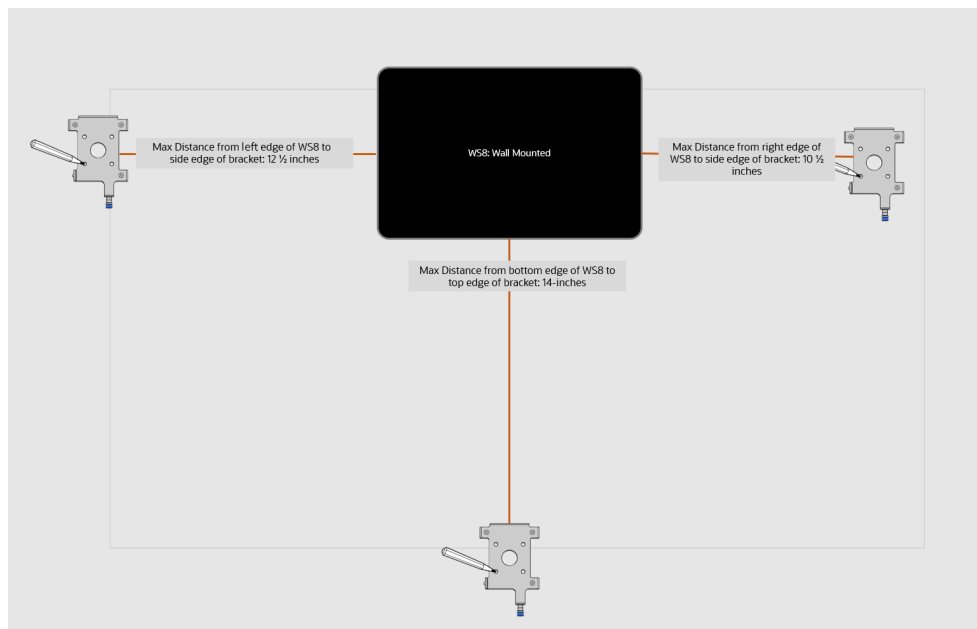
#### Required Tools

- Oracle 2.5mm hex key (included) or equivalent
- Philips screwdriver
- Drill and drill bit appropriate for your wall type
- 4x wall anchors and screws appropriate for your wall type

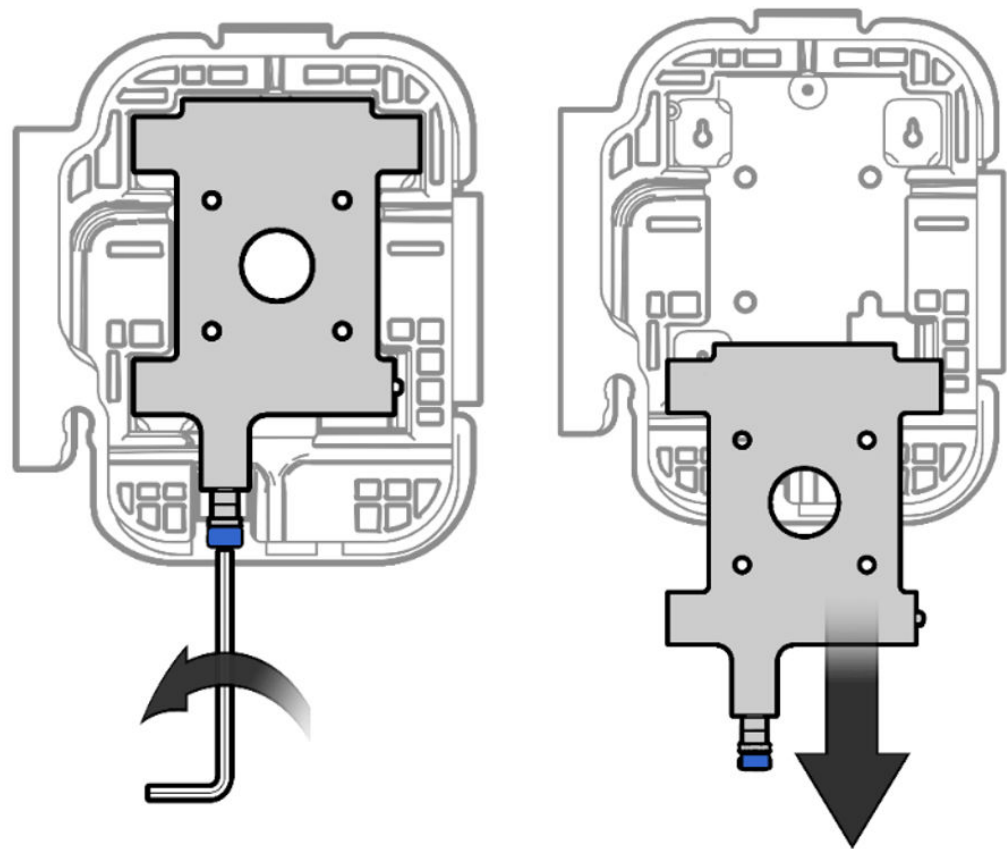
### Wall Mount Installation

1. Choose an installation location within range of your Oracle workstation's USB port.
  - Max distance from left edge of Workstation 8 to side edge of bracket: 12.5 inches
  - Max distance from right edge of Workstation 8 to side edge of bracket: 10.5 inches
  - Max distance from bottom edge of Workstation 8 to top edge of bracket: 14 inches

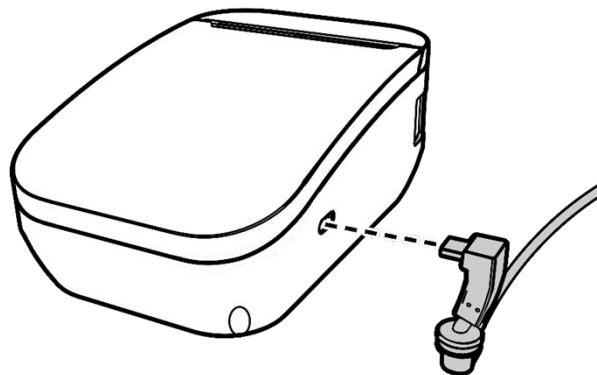
**Figure 6-2 TM-P80II Wall Mounting Guidelines**



2. Loosen the captive screw that secures the wall mount plate to the bracket using the included 2.5mm hex key, and then slide the wall mount plate down to release it. Set aside the plate.

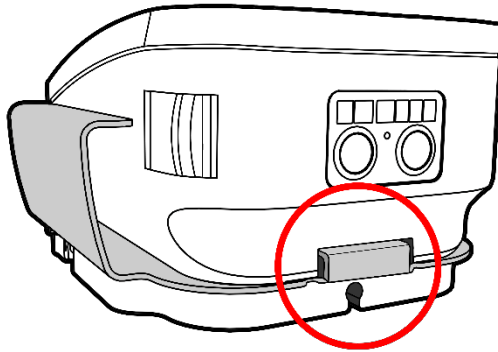
**Figure 6-3 Removing the Wall Mount Plate from the Bracket**

3. Connect the USB cable to the printer.

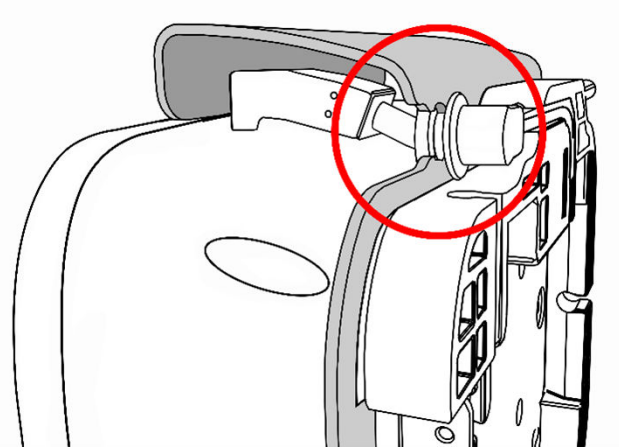
**Figure 6-4 Connecting the Printer Cable**

4. Insert the right-angle security tab of the bracket into the center slot on the printer as you slide the printer into the bracket.



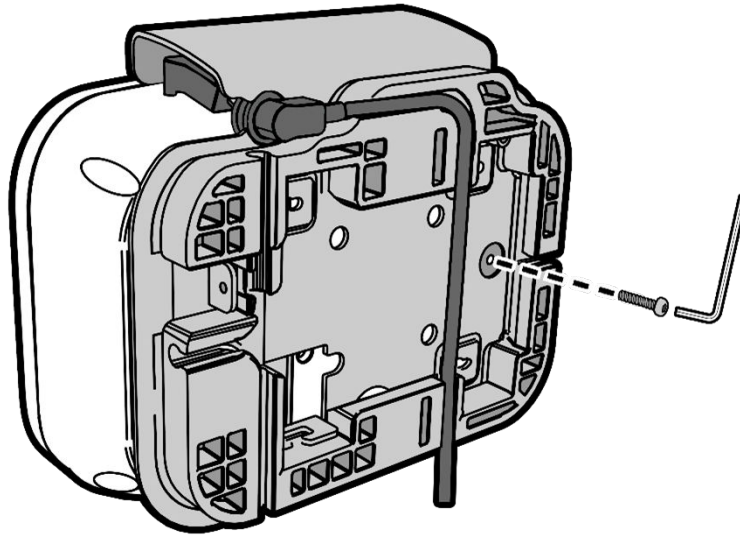
**Figure 6-5 Inserting the Right-Angle Security Tab**

5. Ease the cable into the slot in the bracket cable shield.

**Figure 6-6 Easing the Printer Cable Into the Bracket Shield Slot**

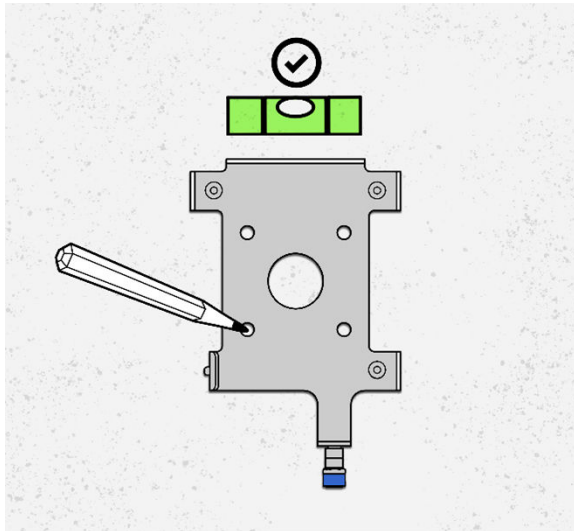
6. Install the included screw to secure the bracket assembly to the printer and then route the printer cable through the grooves in the rubber base. Select a routing path and exit point based on your workstation location.

**Figure 6-7** Installing the Security Screw and Routing the Printer Cable



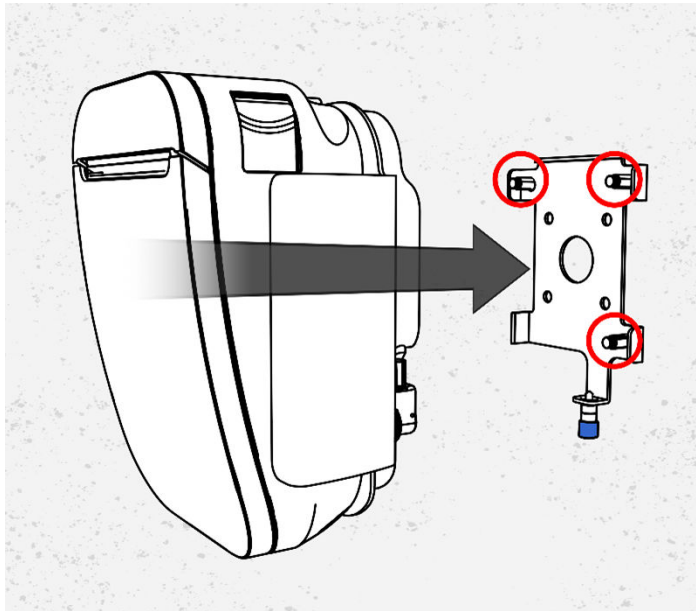
7. While holding the wall mount plate level, mark the four holes on the wall.

**Figure 6-8** Marking Screw Holes



8. Drywall/concrete/masonry walls: Use the appropriate drill bit to drill the four holes.
  - a. Install 4x wall anchors suitable for the wall type.
  - b. Use 4x screws to attach the wall mount to the wall anchors.

**Wood walls:** Secure the wall mount plate to the wall using 4x wood screws.
9. Hang the printer/bracket assembly on the wall by inserting it into the three posts on the wall mount plate.

**Figure 6-9 Installing the Printer/Bracket Assembly on the Wall Plate**

10. Connect the printer cable to the USB port on your Oracle workstation.

#### **Installing the Bracket on a Cash Drawer**

Follow *Wall Mount Installation* steps 1-6, and then place the printer/bracket assembly on the top surface of the cash drawer. The bracket includes magnets to secure the printer in place.