4. Before Starting

Charging the Battery Pack

IMPORTANT SAFETY INSTRUCTIONS –
SAVE THESE INSTRUCTIONS.

DANGER –

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

- For connection to a supply not in the U.S.A, use an attachment plug adapter of the proper configuration for the power outlet.

- **Using the battery charger (option) to charge the battery pack**

Follow the steps below to charge the battery pack using the battery charger.

- This power unit is intended to be correctly orientated in a vertical or floor mount position.

  - Use Battery pack   Model No. PT/MB200-BAT
  - Use Battery charger (Battery pack Model No. PT/MB200-BAT only)
    ① Single-socket type: Model No. PT/MB200-CHG
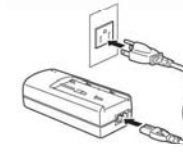   ② Five-socket type: Model No. PT/MB200-CHG5

20

❶ Plug one end of the power cord to the battery charger and the other to the wall outlet.
(POWER lamp lights red.)

❷ Put the battery pack on the battery charger and then slide it in the direction of the arrow.

Charging starts and the CHARGE lamp lights orange. When charging is completed (fully charged), the CHARGE lamp goes off. In case of five-socket charger, charging starts and the CHARGE lamp lights orange. When charging is completed (fully charged), the CHARGE lamp lights green.

❸ After charging, remove the battery pack from the charger.
Slide the battery pack in the opposite direction of step (2) to remove the battery back.

21

Charging Time

It takes about 2.5 hours for the battery pack to reach full charge from a fully discharged state.

Notice

- If the POWER lamp does not light at the start of charging, check the power cord connection.

- If the CHARGE lamp does not light at the start of charging, make sure the battery pack is firmly mounted to the battery charger. Poor mounting of the battery pack may result in poor charging.

- When the fully charged battery pack is placed on the battery charger, the CHARGE lamp goes on and then off.

  In case of five-socket charger, the CHARGE lamp lights green.

- When charging a battery pack that has not been used for a long time, the CHARGE lamp may blink for a while. This does not indicate an error. You can continue charging.

- The battery pack can be recharged by about 300 times (when used in normal temperature). If the battery is fully charged but runs out very soon, renew the battery pack.

- **Using the AC adapter (option) to charge the battery pack**

The battery pack can be charged while it is mounted in the printer.

- Use AC adapter   Model No. PT/MB200-ADP
                     (Sunfone Electronics Co., Ltd.
                     Model No. ACML-06)

1. Open the cover for DC input jack and insert the DC output terminal.

2. Plug the AC adapter to the wall outlet.

   Charging starts and the battery indicator lights red. When charging is completed (fully charged), the battery indicator goes off.

   In the case of the LCD built-in wireless LAN interface model, CHARGE LED lights red when charging starts and is completed (fully charged), the CHARGE LED goes off.

AC adapter

DC input jack

DC output terminal

Charging Time

It takes about 5 hours for the battery pack to reach full charge from a fully discharged state.
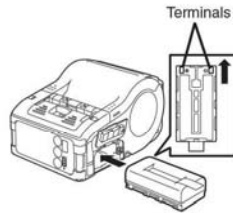
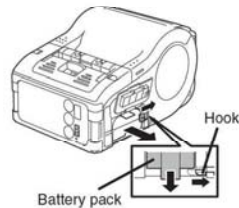## Installing and removing the Battery Pack

1 Open the battery cover.

2 Insert the battery pack while pressing and holding the gray hook and close the battery cover.

Insert the battery pack with the terminal side toward the printer.

Terminals

3 When removing the battery, press and hold the gray hook and then pull the tape.

Hook

Battery pack

* **Make sure to turn the printer power off when removing or replacing the battery.**

When the printer is turned off, the STATUS LED goes off. Do not remove the battery while the STATUS LED is on. Remove the battery when the STATUS LED is off.

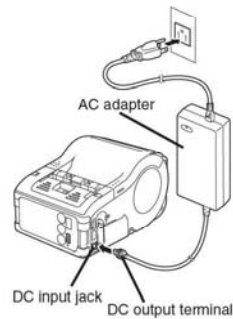* **If you turning off the printer otherwise, the information stored in the printer may not be updated.**

Using AC Adapter

Follow the procedure below to use the printer with the AC adapter (option).

① Open the cover for DC input jack and insert the DC output terminal.

AC adapter

DC input jack
DC output terminal

② Plug the AC adapter to the wall outlet.

* **Be sure to turn the printer power off when removing the DC output terminal of AC adapter or disconnecting the power source.**

  If you turning off the printer otherwise, the information stored in the printer may not be updated.
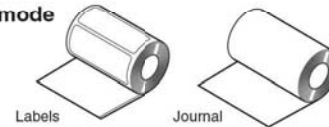
  A battery pack is unnecessary when an AC adapter is used. If a battery pack and an AC adapter are being used at the same time, the printer starts charging (when a battery is not fully charged) or the battery indicator goes off (when a battery is fully charged).

Setting Labels

The method of setting label may vary depending on the print mode.

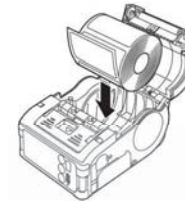**Continuous mode**

Labels   Journal

① Slide the Cover Open/ Close lever in the direction of arrow to open the cover.

If you are using the printer in Dispense mode, lifting the change lever, slide the dispenser unit until stops .

② Place the label to the printer.
Pay attention to the direction of the label roll.

③ Open the label guide adjust dial cover and turn the dial till the label guide fits with label roll.

Label guide adjust dial

Turn the label roll lightly by the hand and confirm that it rotates smoothly.

If a drags is felt, paper may not be fed correctly. Return the dial for adjustment. When using the paper of the same width as that used previously, adjustment of the label guide is not necessary.

④ Close the cover after confirming that the leading edge of the label is outside the printer.

Label leading edge
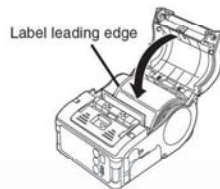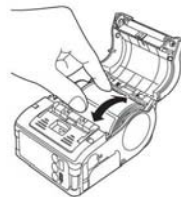
This completes the label setting in continuous mode.

5. Test Printing

① Pressing and holding the FEED key, set the POWER key . The printer enters the test mode. Press the FEED key again to start test printing.
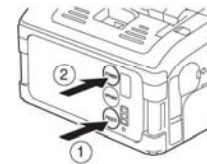
② Verify the following using the output of the test printing.
- There is no chipped character.
- Print condition is good.

In the test printing, the battery residual is indicted by ▮▮▮ (▮▮▮ for full charge).
When the battery indicates ▯▯, charge the battery.

* If any fault is detected, contact the store you bought the printer, dealer, or service center.

6. Reference

Options

User Option

Battery Pack (Supplied with the printer)

Preparing a spare battery pack will insure uninterrupted operation due to Low Battery.

Model No. PT/MB200-BAT

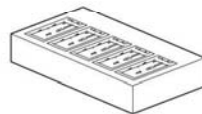**Battery Charger (Single-socket)**

Charges the battery pack.

Model No. PT/MB200-CHG

Battery Charger (Five-socket)

Charges the battery pack (up to five packs).

Use AC Adapter Model No. ACH400
Rated Input: AC100 to 240 V,
1.2A 50/60Hz
Output: DC19 V, 3.2A

Model No. PT/MB200-CHG5
Rated Input: DC19 V, 3.2A
Output: DC8.4 V, 1.1A

AC Adapter

Used to supply power from domestic power supply.
The DC output terminal of the AC adapter is connected to the printer.
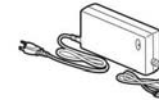
Model No. PT/MB200-ADP
(Sunfone Electronics Co., Ltd.
Model No. ACML-06)

⚠
- Be sure to use the specified AC adapter.
- Plug or unplug the AC adapter while holding its body.
- Pay attention not to injure the cord.
- Keep the AC adapter unplugged when not in use.

DIP Switch

Setting DIP switch

1. Turn the printer power off.

2. Open the DIP switch cover.

3. Change the position of the switch you want to change using a pointed tool such as the tip of ball-point pen.

DIP Switch Setting

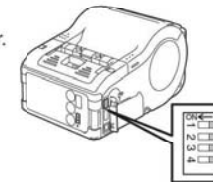| DIP switch 1	2	3	4	Cover	Key PRINT	FEED	Starting mode Interface	Description
OFF	OFF	OFF	OFF	Close	OFF	OFF	RS-232C	Normal print mode
				Close	OFF	ON	—	User test print mode
OFF	OFF	ON	ON	Close	OFF	OFF	RS-232C	HEX dump mode
OFF	OFF	OFF	ON	Open	ON	OFF	—	Auto peeling mode
				Open	OFF	ON	—	Manual print mode
OFF	ON	OFF	OFF	Close	OFF	OFF	Bluetooth interface/ Wireless LAN interface	Normal print mode
				Close	OFF	ON	—	User test print mode
OFF	ON	OFF	ON	Open	ON	OFF	—	Head check (print area) designation
				Open	OFF	ON	—	Head check designation clear
OFF	ON	ON	ON	Close	OFF	OFF	Bluetooth interface/ Wireless LAN interface	HEX dump mode
				Open	ON	OFF	—	CRC check enable designation
				Open	OFF	ON	—	CRC check disenable designation
ON	OFF	OFF	OFF	Close	OFF	OFF	IrDA interface	Normal print mode
				Close	OFF	ON	—	Test print mode
ON	OFF	ON	ON	Close	OFF	OFF	IrDA interface	HEX dump mode

DIP switch 1	2	3	4	Cover	Key PRINT	FEED	Starting mode Interface	Description
ON	OFF	OFF	ON	Open	ON	OFF		Head check (Barcode print area) designation
				Open	OFF	ON	—	Head check clear
ON	ON	ON	ON	Open	ON	OFF	—	Online command designation (Petit lapin compatible)
				Open	OFF	ON	—	Online command designation (SBPL command)

Basic Specifications of MB200i/MB201i

Item	Description
Printing system	Thermal printing system
Head density	8 dots/mm (203 dpi)
Maximum print area	48 mm (width) x 160 mm (pitch)
Print speed	103 mm/s max. (The speed varies depending on print duty and environment of use.)
Dimensions • MB200i • MB200i with rubber boot • MB201i	Printer: 129 mm (width) x 73 mm (depth) x 88 mm (height) (excluding belt clip) Printer: 158 mm (width) x 94 mm (depth) x 116 mm(height) Printer: 119 mm (width) x 64 mm (depth) x 88 mm (height) (excluding belt clip)
Weight • MB200i • MB200i with rubber boot • MB201i	410 g (Standard model, including battery pack) 515 g (Standard model, including battery pack) 390 g (Standard model, including battery pack)
Power supply	AC adapter or Battery pack
AC adapter	Input: AC100 to 240 V, 1.5 A 50/60Hz Output: DC9 V, 5A
Battery pack	Lithium-ion DC7.4 V, 2400 mAh Prints 1.5 rolls of thermal labels with full charge (equivalent to 48 m). Continuous printing is permitted (provided print duty is 16% or less.)
Paper Paper thickness Shape of paper Label size (Liner sheet and eye mark pitch)	Be sure to use specified paper. 0.064 to 0.190 mm Roll paper: Wound with surface out Maximum diameter: f58 mm Width: 25.4 to 55 mm (28.4 to 58 mm) Pitch: 13 to 160 mm (16 to 163 mm)
Label printing	Continuous, Dispense

34

Item	Description
Self-diagnosis	Head check/Cover open/Paper end/Battery check/Test print
Power saving feature	Enters Sleep mode after no operation for 5 minutes. Auto power off after no operation for 5 minutes. With Bluetooth or wireless LAN specifications, no auto power off is defaulted. Auto power off time can be changed by the printer operation register command <PG>.For details of command, refer to Programming Guide.
Interface • RS-232C • Photo coupling • Bluetooth option • Wireless LAN ※1)	Mini DIN IrDA communication (Complies with IrDA standard Ver. 1.2. Communication range: 15 to 20 cm max.) Bluetooth Specification Ver. 2.0 Class 2 Wireless LAN interface (IEEE802.11b) TCP/IP (FTP, LPR SOCKET)
Paper sensor	Reflection type (eye mark), Transmission type (gap)
Character magnification	1 to 6 times
Rotation of character	0°, 90°, 180°, 270°
Character type	SATO standard font: X20, X21, X22, X23, X24, OCR-A, OCR-B, POP character Kanji: 16 x 16, 22 x 22, 24 x 24 Square Gothic (JIS Level 1, Level 2)
Barcode	JAN8/13, UPC-E/UPC-A, NW-7, CODE39, CODE93, CODE128, INTERLEAVED2of5, Customer barcode, RSS-14 However, barcode shall be used with the following. Parallel barcode: Thin bar width of 2 dots or more Serial barcode: Thin bar width of 3 dots or more
2-dimensional code	Any one of PDF417, QR code (including micro QR), Data matrix code (ECC200), MAXI code, Composite symbol can be used by downloading.
Switch	POWER key, PRINT key, FEED key
Indicator	STATUS LED: One (Lights in three color: Green, Red and Orange) Battery LED: Three

35

※1)Bluetooth and the Wireless LAN are selective.
Please choose either.

Item	Description
Application standards	FCC 15 ClassB, EN55022, EN55024, EN61000-3-2, EN51000-3-3, UL60950-1, CSA C22.2 No.60950, GB9243, GB9254, GB17625.1, EN60950
Protective feature	Overcharge protection Head overheat protection Detection of Low Battery.
Waterproof feature	Rainproof type (JIS protection class 3), Shoulder rainproof cover (option) installed. * Removed when communication cable is connected.
Environmental condition (including battery pack)	Operating ambient temperature: -15 to 50°C (Wireless LAN model: 0 to 50°C) Humidity: 20 to 80% without condensation Storage ambient temperature: -25 to 60°C Humidity: 20 to 80% without condensation Environment for paper is excepted.
Options	Battery pack, AC adapter, Battery charger (Single-socket), Battery charger (5-socket), Rainproof case, Shoulder belt, Belt hook (one-touch type), Waist case, RS-232C cable

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