

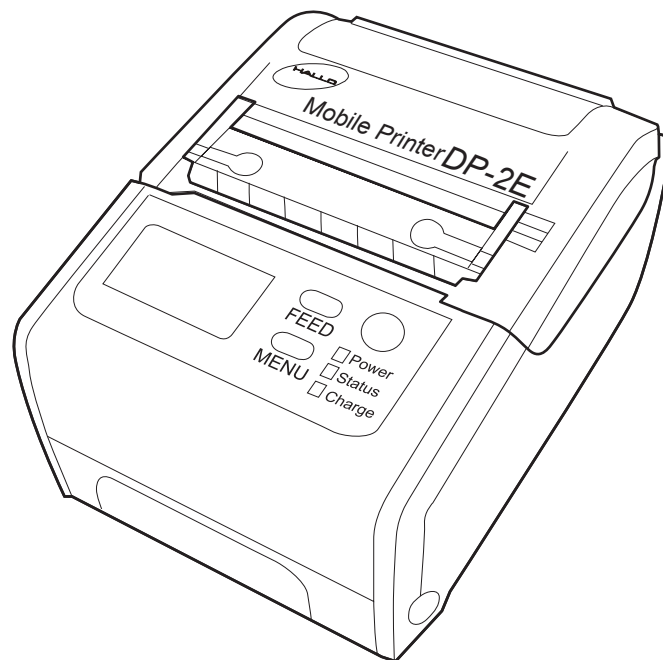
Shinsei



Mobile Printer **DP-2E**

Mobile Printer

Instruction Manual



IMPORTANT

- * Read this manual thoroughly, and do not perform installation, operation, maintenance, or inspection unless you fully understand all of the contents.
- * Keep this manual in a safe place where you can refer to it easily while installing, operating, and carrying out maintenance or inspections.

■ Preface...

Thank you for selecting our model DP-2E.

This product does not contain toxic substances specified by the RoHS and WEEE Directives.

This machine is a mobile printer developed based on a state-of-the-art electronics technology and accumulated experiences. For proper and safe use of this machine, read this instruction manual thoroughly to become aware of the machine and the related precautions before working for the installation and operation.

After the installation, keep this manual at the place where you can refer to whenever it is necessary.

SHINSEI INDUSTRIES Co., Ltd., 2010

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for controlled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. The product is mobile device, the separation distance between the user and the device's radiating element is greater than 20cm. The maximum E.I.R.P of the device is 3.523mW, which is less than RF Expo.

IC

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

This equipment complies with IC radiation exposure limits set forth for uncontrolled equipment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. The product is mobile device, the separation distance between the user and the device's radiating element is greater than 20cm.

The maximum E.I.R.P of the device is 3.523mW, which is less than RF Expo.



Europe - EU Declaration of Conformity

We, Shinsei Industries Co., Ltd. hereby declare that this device, model DP-2E is in compliance with the essential requirements and other relevant provisions of the R&TTE Directive 1999/5/EC.

■ Bluetooth™ Communications

This device with built-in wireless telecommunication equipment conforms to the standards, required in the region where the device is used. This device assumes an interference distance of about ten meters or less. Using this device near microwave ovens, wireless LAN equipment, etc. may significantly reduce the communication distance or make communication impossible. Do not disassemble or modify this device.

This device is equipped with a Bluetooth module that obtained product certification.

Bluetooth™ is a trademark of Bluetooth SIG, Inc., U.S.A., and is used herein under license.

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1. Precaution Symbols

This product is manufactured for use according to proper procedures by a qualified operator and only for the purposes described in this manual.

Precaution symbols in this manual are divided into two categories, depending on the level of danger, or seriousness of potential injury. The definition of each precaution is shown below. Failure to heed these precautions may result in bodily injury or damage to the machine.

 WARNING	Indicates information that, if not heeded, could possibly result in loss of life or serious injury.
 CAUTION	Indicates information that, if not heeded, could result in relatively serious or minor injury, damage to the machine, or faulty operation.

This machine is manufactured for use according to proper procedures by a qualified person and only for the purposes described in this manual. The following symbols are used in this manual.

Always heed the information provided in this manual. Failure to heed precautions can result in personal injury or property damage.

Heed the following precautions information provided in this manual for your safety.



WARNING

Do not disassemble or modify the printer unit, battery pack, battery charger, charger adapter, etc. Doing so may result in injury or cause the machine to break down.

- Doing so may cause damage, short-circuit, or ignition, and may result in electric shock, burn, or fire.



Do not charge anything other than the specified battery pack with the battery charger.

- The battery pack may cause heat, burst, or ignition.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.



Do not give strong shock such as dropping and throwing the printer unit.

- Doing so may cause damage, short-circuit, or ignition, and may result in electric shock, burn, or fire.



Do not allow the printer unit, battery pack, battery charger, or charger adapter to come in contact with water or get accumulation of dust. Doing so may result in fire or cause the machine to break down.

- Continued use may cause a fire or electric shock.



Do not keep the battery pack with metals.

- Doing so may cause a fire or electric shock due to short-circuit.





CAUTION

Do not leave the battery pack charged for a long time.



After the charge, make sure to pull out the plug of the power supply cord of the battery charger or the charger adapter from the AC outlet.



The operation time may become less because the battery pack is naturally discharged and the power decreases. (It is not a breakdown).



Do not touch the thermal print head because it will be exposed when the cover is opened.

- When replacing labels immediately after using the machine, be careful not to get burned due to overheating of the thermal print head.
- Do not touch the thermal print head as your hand oil may cause the deterioration.



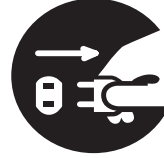
Change or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.





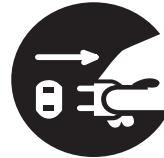
CAUTION

After using this machine or when not using it for a long time, take out the battery pack and pull out the power plug of the charger adapter from the AC outlet for safety.



Remove dusts regularly after pulling out the power plug of the charger adapter from the AC outlet.

- If dusts are accumulated around the AC outlet, it may cause leak current and fire.



Do not place this machine on an unstable place.

- Doing so may fall and injury.



Do not charge anything other than the specified battery pack (lithium-ion battery).

- Follow the local regulation when disposal.



2. For your longer use

Precautions for use

1. Do not print the paper with the paper not installed.
2. Issue labels after confirming the print contents are correct, as set values of a built-in program might be changed or destroyed by an excessive power supply noise.
3. Avoid use of this machine under the conditions of extreme temperature or humidity.
4. Do not leave or keep the machine in the place where an air conditioner is installed near the machine or direct sunlight is received.

[Environment]

Operating environmental temperature:

+5° ~ +35°C

Operating environmental humidity:

25 ~ 80%RH (No condensation)

Storage environmental temperature:

-10° ~ +60°C

Storage environmental humidity:

10 ~ 80%RH (No condensation)

5. When glue or dust adheres to the label path, wipe it off with a soft cloth wrung after being soaked in neutral detergent.

6. Use the battery pack after full charge when using it for the first time.
7. In the case of using this machine with the battery pack, turn off the power even when interrupting the use temporarily. This will save the battery pack power.
8. Clean the thermal print head regularly and perform test printing. Contact our dealer if a white line appears on the test pattern.


Normal pattern



Abnormal pattern



9. Inspection at the beginning of a working day
Perform test printing at the beginning of a working day.
Refer to Section 13 "Test Printing".

 CAUTION
Contact our dealer if an abnormal pattern should be printed.

10. Use our specified media to maintain good print quality and performance.

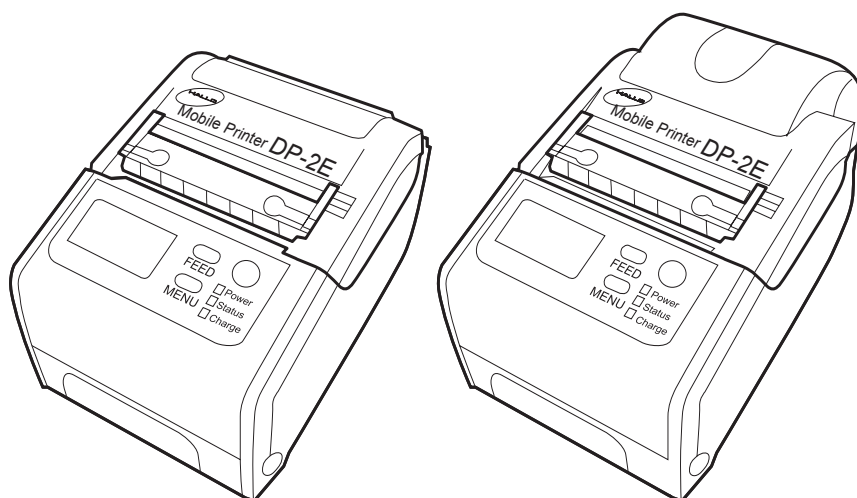
3. Confirmation of This Machine

This machine is composed of the printer unit and accessories.

3-1. Printer Unit

You can select one of two types, either DP-2E (for a small label roll) that can contain the media roll with small diameter or DP-2E (for a large label roll) that can contain the media roll with large diameter.

The following pages are described by using figures of the DP-2E (for a small label).



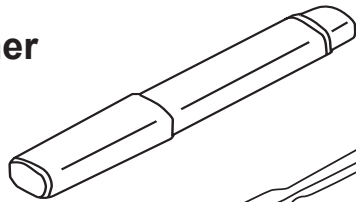
(for a small label roll)

(for a large label roll)

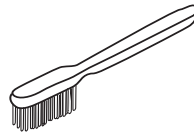
3-2. Accessories

They are attached to the printer unit.

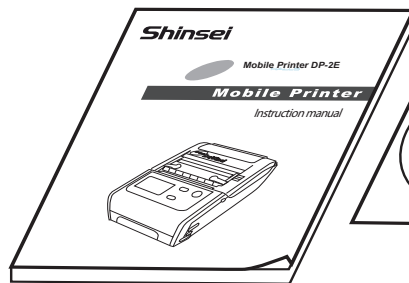
Head cleaner



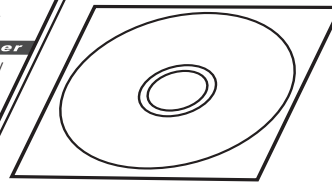
Brush



Instruction manual



CD-ROM

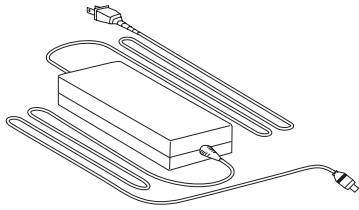


4. Optional Accessories

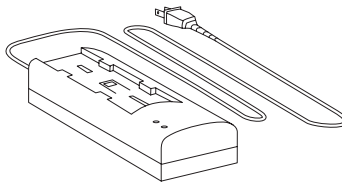
Following optional accessories need to be purchased separately.

*Contact our dealer for other optional accessories.

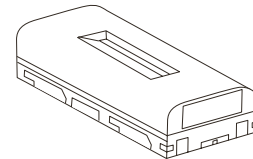
Charger adapter
(CV-74)



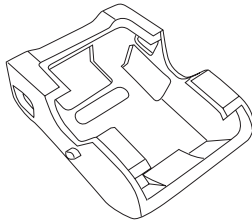
Battery charger
(CH-74)



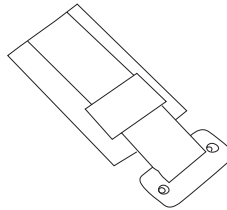
Battery pack
(BH-74)



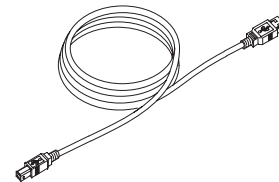
Protector
(DP-74)



Belt hook
(DH-74B)



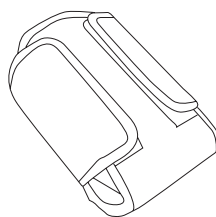
USB cable
(mini-B)



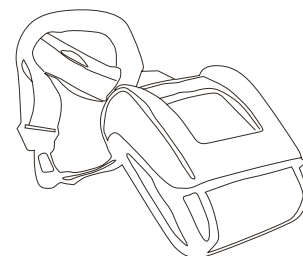
Portable holster
(DH-74)



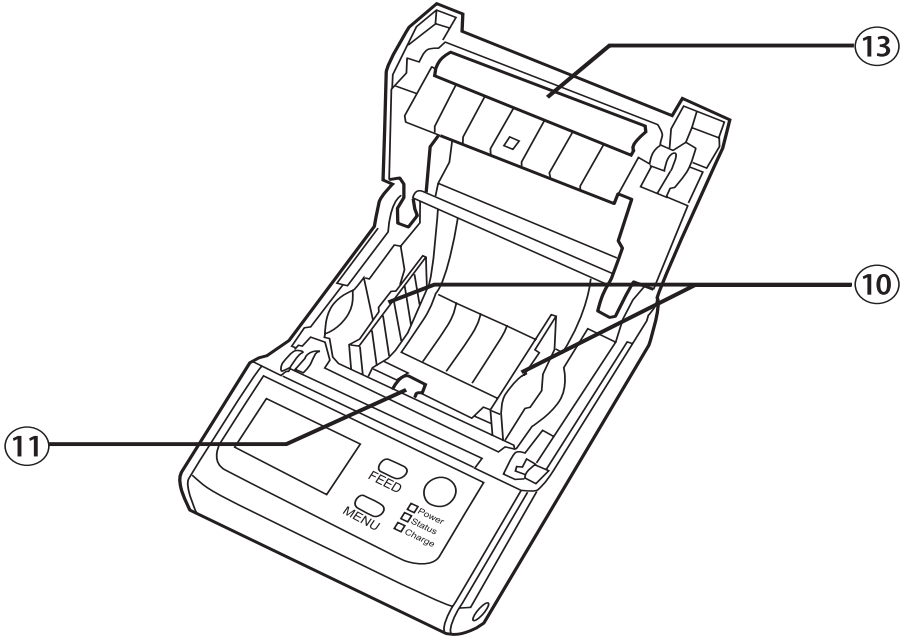
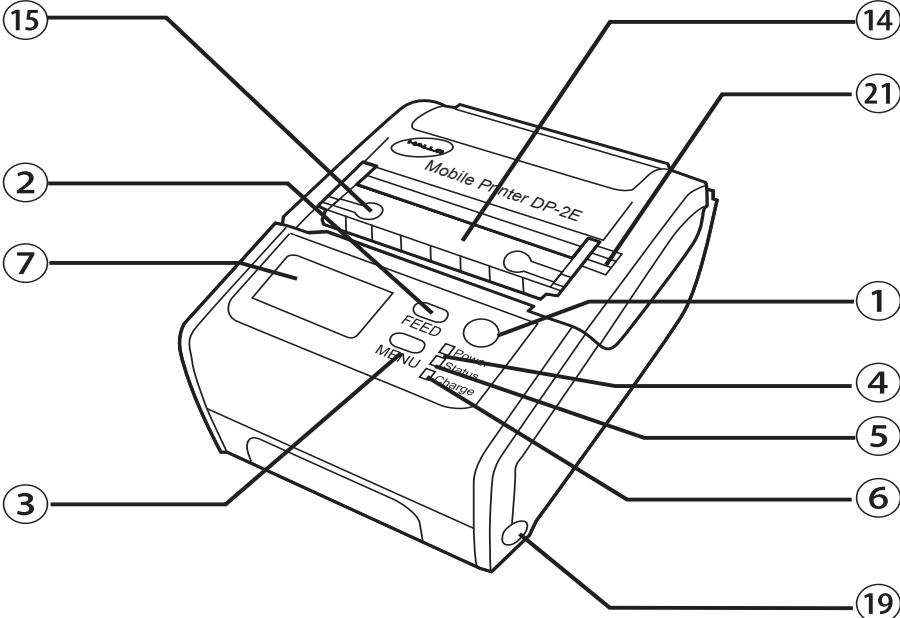
Auxiliary case
(HH-74)

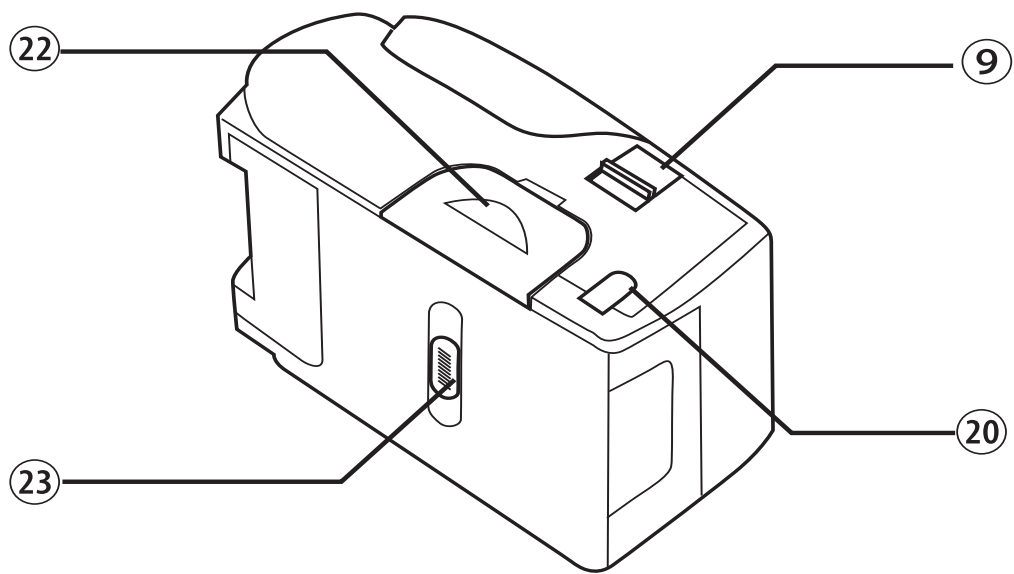
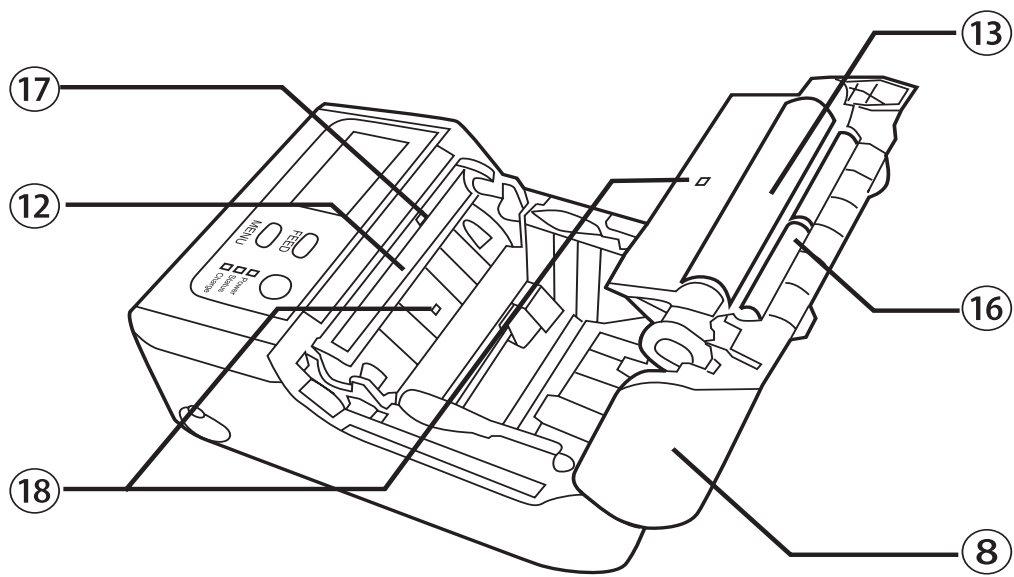


Rainproof case
(DH-74R)



5. Names and Functions of Each Part





No.	Name	Function
①	Power switch	Turn on and off the power supply.
②	FEED key	Press this key when feeding paper or moving the cursor on the menu screen.
③	MENU key	Press this key when changing the screen.
④	Power LED	The green LED lights up when the power supply is turned on.
⑤	Status LED	The red LED lights up if an error display appears.
⑥	Charge LED	This LED lights up while charging with the charger adapter (option).
⑦	Liquid crystal display	The remaining battery level and various statuses are displayed.
⑧	Cover	Open or close this cover when removing or installing the media roll.
⑨	Cover lock release lever	Press to release the cover lock when opening the cover.
⑩	Label holder	This holder guides the media.
⑪	Stopper	This stopper keeps the label holder opened.
⑫	Thermal print head	This head performs printing on the media.
⑬	Platen roller	This roller holds the media with the thermal print head and transports the media.

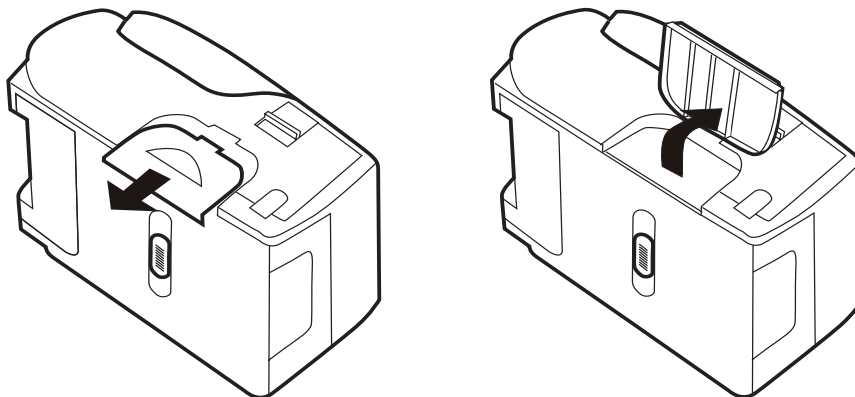
No.	Name	Function
⑭	Peeling frame	This frame peels off labels from the backing paper.
⑮	Peel frame release lever	Open the peel off frame with this lever.
⑯	Peel roller	This roller guides the backing paper to the issuing slot.
⑰	Peel sensor	This sensor detects a peeled label presence.
⑱	Label sensor	This sensor detects a label transportation.
⑲	USB connector cover	Open this cover to connect a PC with the USB cable. Use in a commercial, industrial or business environment, exclusive of a device which is marketed for use by the general public or is intended to be used in the home.
⑳	DC input terminal cover	Connect the charger adapter (option).
㉑	Auto/Manual switch	Press to select "auto issue" or "manual issue" in the Peel-Off mode.
㉒	Battery pack cover	This covers the storage unit of the battery pack.
㉓	Battery pack release lever	Use this lever when taking out the battery pack.

6. When using this machine with the battery pack

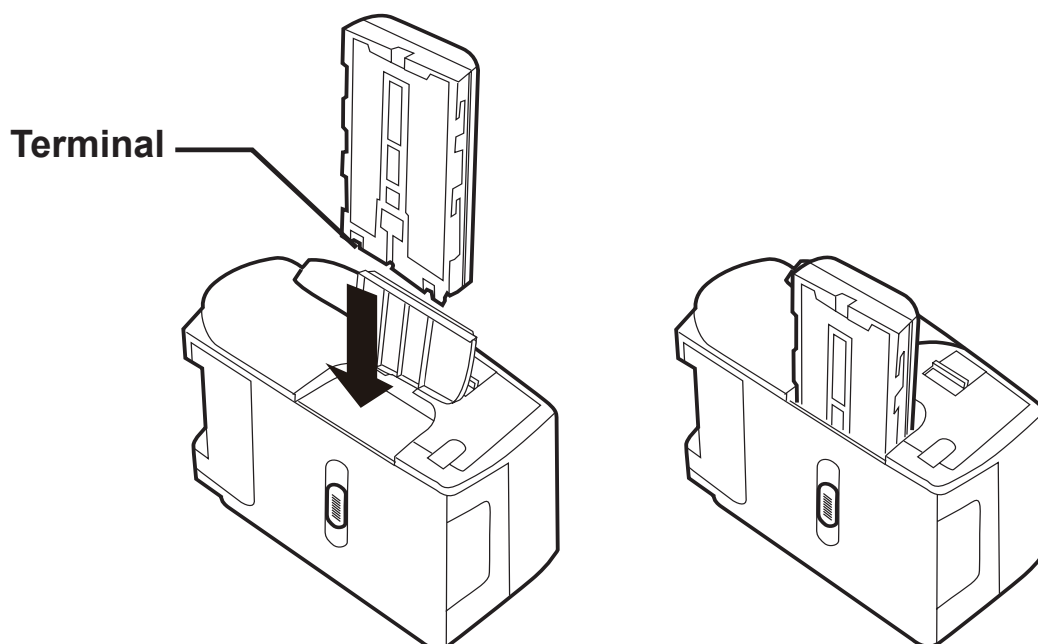
6-1. Installing the battery pack

(1) Open the battery pack cover.

- Slide the battery pack cover to the arrow direction.

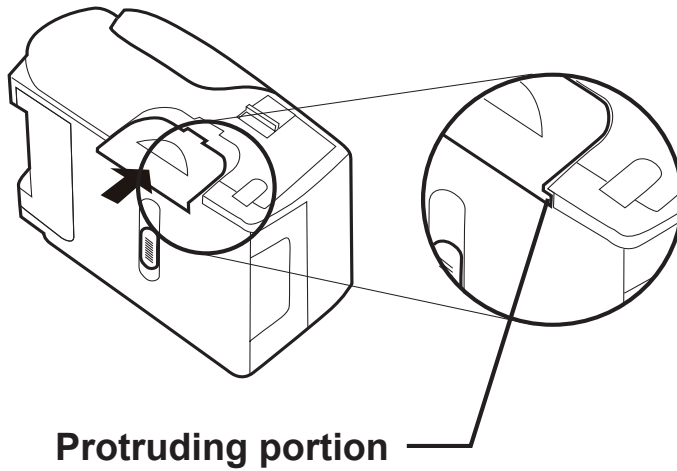


(2) Insert the fully-charged battery pack into the battery pack storage unit of this machine with its terminals inside until it clicks.



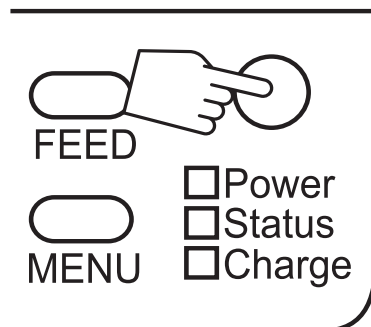
(3) Close the battery pack cover.

- Push to slide the battery pack cover until it clicks so that the protruding portions on both sides of the battery pack cover can be inserted into the slit of this machine.



(4) Turn on the power.

The green Power LED lights up, and the power is turned on.



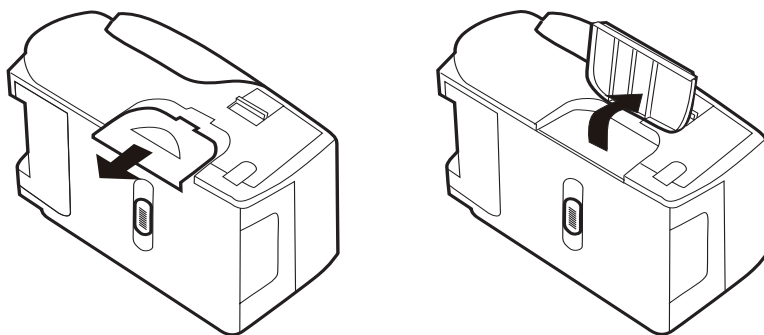
6-2. Removing the battery pack

(1) Turn off the power supply.

- Confirm that the Power LED is turned off.

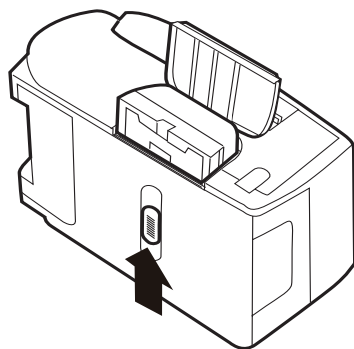
(2) Open the battery pack cover.

- Pull to slide the battery pack cover in the arrow direction to release the lock, and open the cover.



(3) Remove the battery pack.

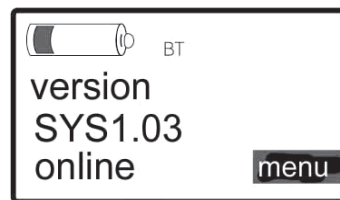
- Slide the battery pack release lever in the arrow direction until the lock is released.



7. Charging the battery pack

7-1. Battery charge is needed in one of the following cases

- (1) When using the battery pack for the first time, or not using it for a long time.
- (2) When nothing appears on the liquid crystal display at the time of power-on, or when the display turned off soon though the remaining battery level had been displayed once.
- (3) When the remaining battery level becomes 1/4 or less.

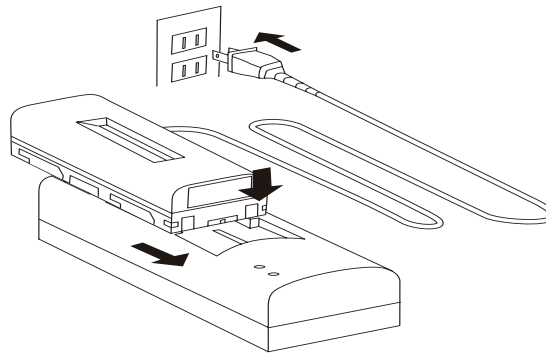


- (4) When the display turned off while each item was being input.
- (5) When operation stopped while printing and the "low battery" message is displayed.

7-2. Battery charging procedure

- (1) Insert the output side of the power cable into the input side of the battery charger and insert the cable plug into the AC outlet.
 - The Power LED (red) lights up.

- (2) Insert the battery pack and slide it in the arrow direction to lock the pack until it clicks.
 - The Charge LED (red) lights up when the charge starts.
The Charge LED (red) turns off when the battery is fully charged.



CAUTION

If the Charge LED blinks, stop charging because the battery pack trouble is presumed.

- (3) Remove the battery pack when the charge ends.
 - Charge time: 3 hours
 - Number of charge times: 300 times
 - * Use the charge time and the number only as a guide.
They may vary according to status of use.

 **WARNING**

- Do not disassemble or modify the battery pack. Doing so may cause a damage, short-circuit, or ignition, and may result in an electric shock, burn, or fire.
- Do not allow the machine to come in contact with water or get accumulation of dusts. Doing so may result in a fire or cause the machine to break down.
- Do not keep the battery pack with metals. Doing so may cause a fire or electric shock due to short-circuit.

 **CAUTION**

- Do not leave the battery pack charged for a long time.
- After the charge, make sure to pull out the plug of the power supply cord of the battery charger or the charger adapter from the AC outlet.
- The operation time may become less because the battery pack is naturally discharged and the power decreases. (It is not a breakdown).
- Do not charge the battery pack when the pack is still high in temperature.
- Charge the battery pack after the temperature drops.
- Caution should be exercised because the battery pack is still in high in temperature immediately after the charge.

7-3. Before using the battery pack

(1) About the battery pack

Note that the deterioration speed (life time) of the battery pack depends greatly on overcharge and over-discharge.

- **Notes not to cause overcharge**

Do not charge the battery pack many times in a short period of time without discharging electricity.

- **Notes not to cause over-discharge**

Charge the battery pack promptly when the warning appears on the display indicating that the remaining battery level is low.

There is a possibility that the battery pack is in the over-discharge state when the pack has been connected with the machine over an extended time period (The pack is discharged even in the power-off state), or when the pack has been left for a long time.

- **Optimizing the charge**

It is the best to charge the battery pack when the remaining battery level becomes 1/4 or less for prolonging the battery life.



CAUTION

If the lithium-ion battery is over-discharged, it cannot be normally charged.

(2) Others

- The battery pack might be high in temperature shortly after a large amount of printing has been made with this machine.



CAUTION

Charge the battery pack after the temperature falls.

- The lithium-ion battery capacity remarkably decreases under the low-temperature environment. Early charging is recommended.
- Replace with a new battery pack when the pack cannot be fully charged or the operating time decreases.

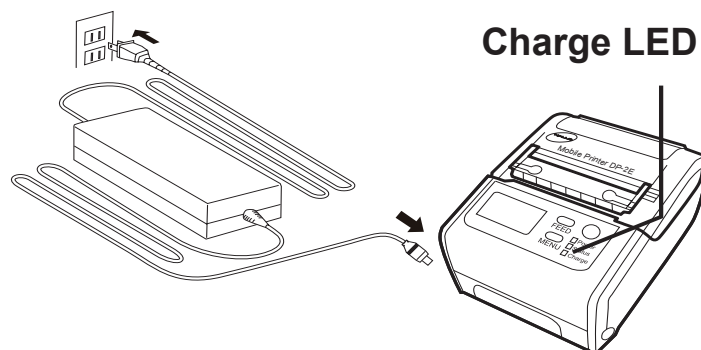
8. When charging the battery pack with the charger adapter (sold separately)

8-1. Installing the charger adapter

- (1) Install the battery pack in this machine.
- (2) Remove the DC input terminal cover of this machine in the power-off state, and connect the DC output terminal of the charger adapter with the DC input terminal of this machine.
- (3) Connect the power plug of the charger adapter with the AC outlet.
- (4) The Charge LED lights up and the battery charge starts.

- Charge time: 5 hours
- Number of charge times: 300 times.

* Use the charge time and number only as a guide. They may vary according to status of use.



- (5) The Charge LED turns off when the battery pack is fully charged.
 - Remove the charger adapter by using the method of "8-2" on the next page.

8-2. Removing the charger adapter

- (1) Remove the power plug of the charger adapter from the AC outlet.
- (2) Remove the DC output terminal of the charger adapter from the DC input terminal of this machine, and close the DC input terminal cover of this machine.



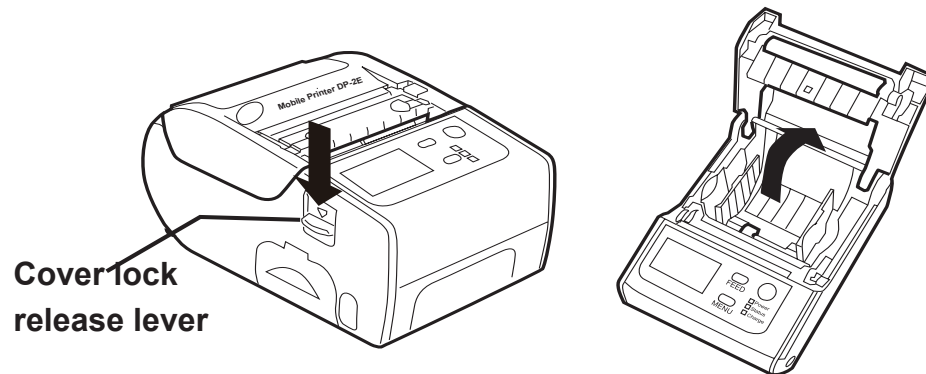
CAUTION

Make sure to turn off the power of this device when removing the DC output terminal of the charger adapter from the DC input terminal of this machine, or removing the plug of the charger adapter from the AC outlet.

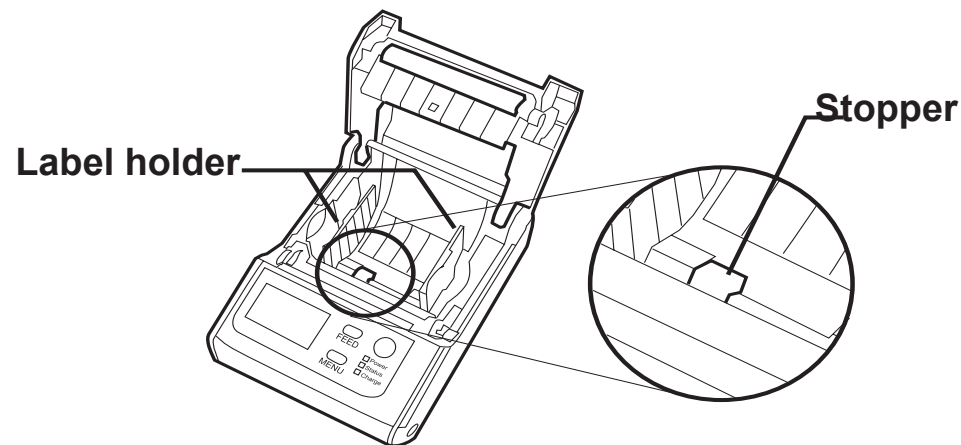
9. Setting the media roll

9-1. In the case of printing labels in the Tear-Off mode

- (1) Open the cover by pressing the cover lock release lever.



- (2) Lift up the stopper and adjust the label holder to the media width. After confirming that the holder fits the media width, lower the stopper.

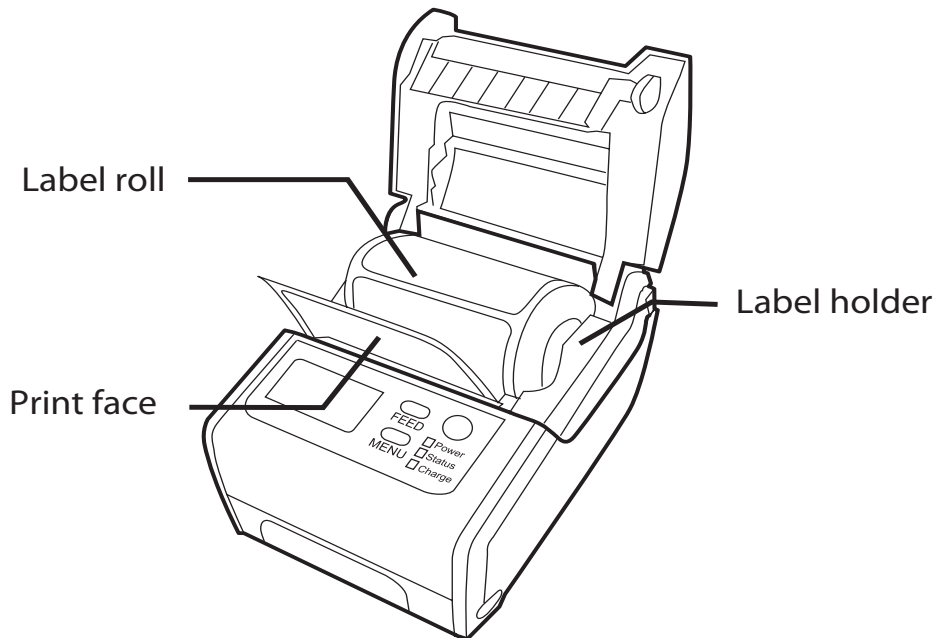


CAUTION

Moving the label holder without raising the stopper may cause damage.

- (3) Place the label roll so that the print face directs downward (thermal print head side).

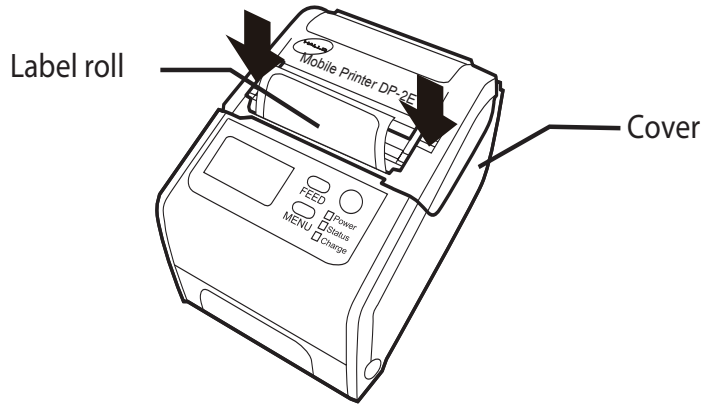
See the machine specifications about the size of the label that can be placed.



CAUTION

- Do not touch the thermal print head because it will be exposed when the cover is opened. When replacing labels immediately after using the machine, be careful not to get burned due to overheating of the thermal print head.
- Do not touch the thermal print head as your hand oil may cause the deterioration.

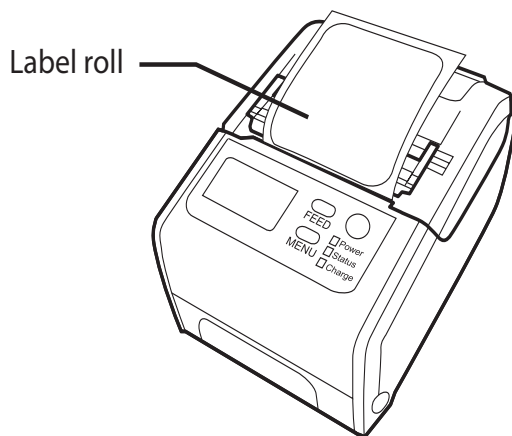
- (4) Pull out the label roll and gently close both ends of the cover until they click as indicated by an arrow.



WARNING

- Closing the cover strongly may cause trouble or damage.
- Caution should be exercised so as not to get your hand caught.

- (5) Press the FEED key.
The label is fed to the fixed position.

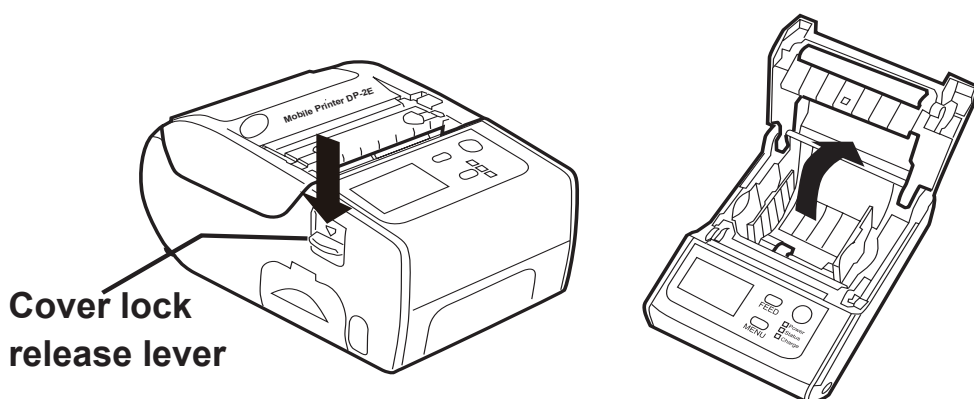


A mark error will occur if the label size or the sensor type is different.

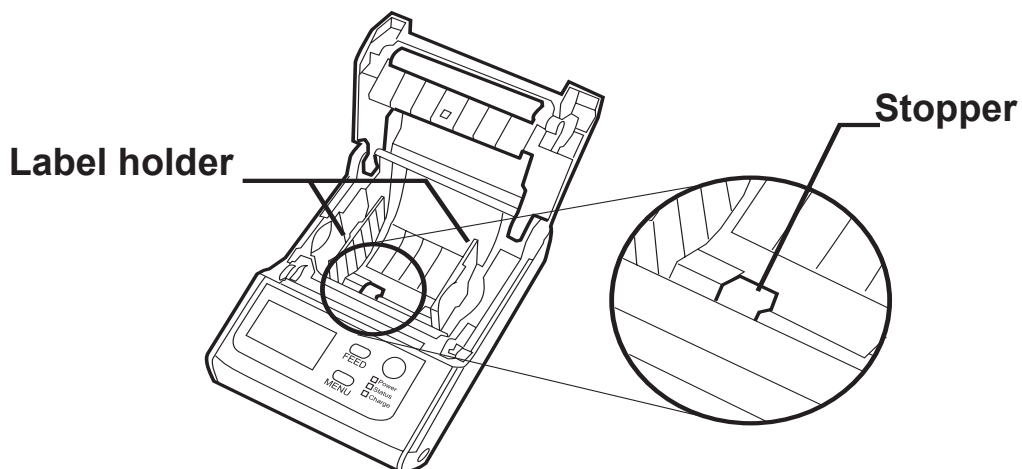
9-2. In the case of printing labels in the Peel-Off mode

When issuing labels in the Peel-Off mode, it is necessary to set the main body setting to the Peel-Off mode from a personal computer etc. (not possible to set it with this machine alone).

- (1) Open the cover by pressing the cover lock release lever.



- (2) Lift up the stopper and adjust the label holder to the label width. After confirming that the holder fits the label width, lower the stopper.

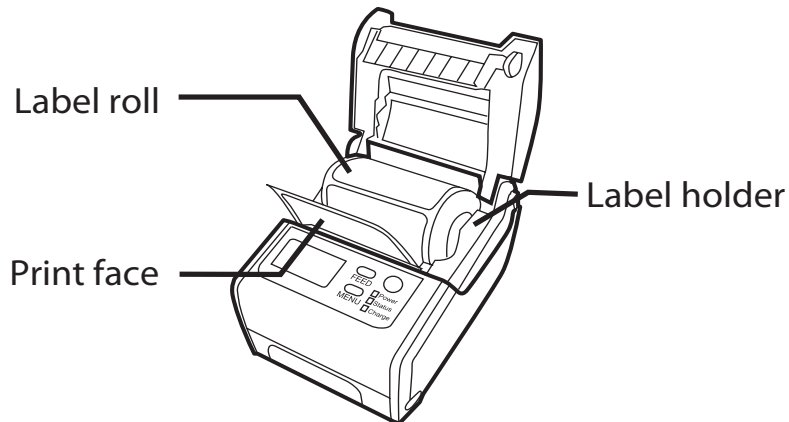


CAUTION

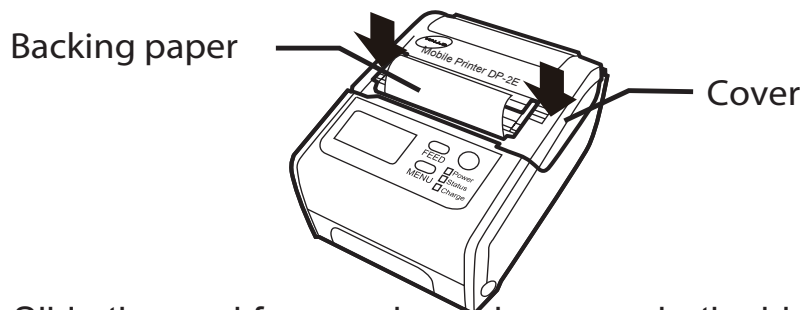
Moving the label holder without raising the stopper may cause damage.

- (3) Place the label roll so that the print face directs downward (thermal print head side).

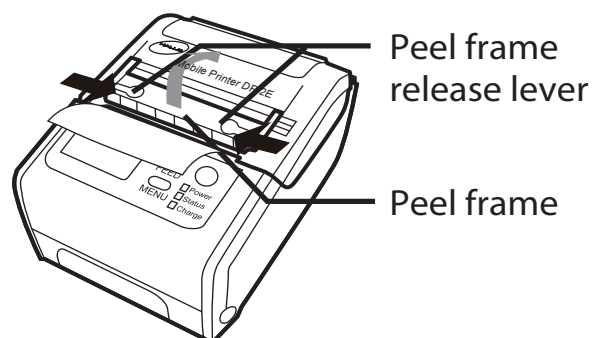
See the machine specifications about the size of the label that can be placed.



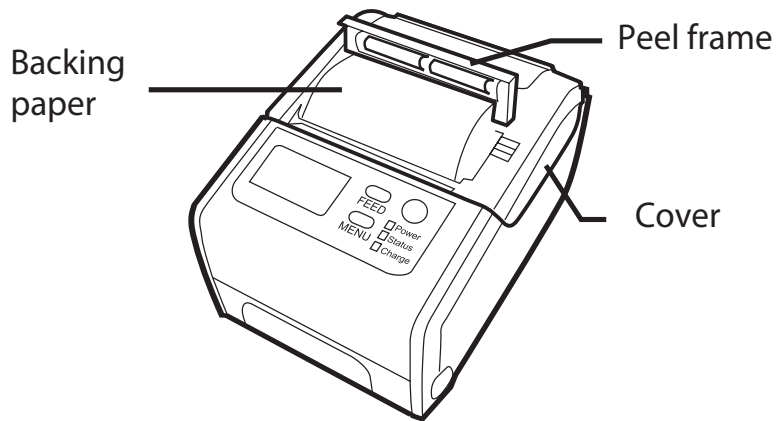
- (4) Peel off one label at the top of the label roll, pull the backing paper to front, and gently close both ends of the cover until they click as indicated by an arrow.



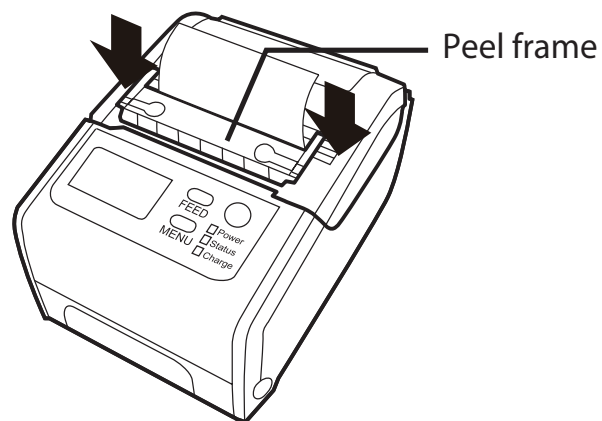
- (5) Slide the peel frame release levers on both sides inward and lift it to open the peel frame.



- (6) Thread the backing paper from which one label was peeled off between the peel frame and the cover.



- (7) Close the peel frame gently until it clicks.
The peel frame is fixed.



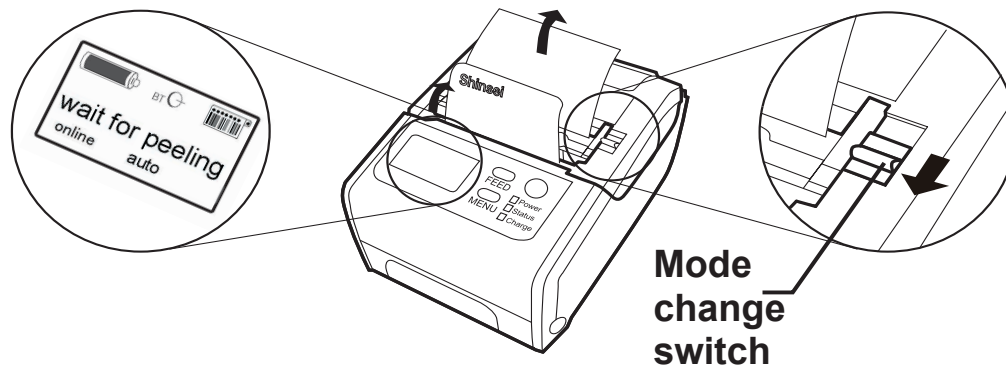
WARNING

Closing the peel frame strongly may cause trouble or damage.

(8) Slide the switch to either "Auto issue" or "Manual issue" position.

1. "Auto issue" setting

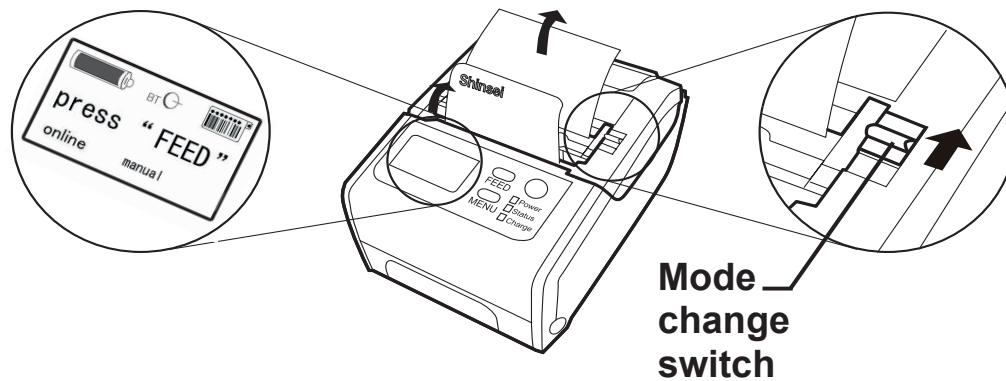
Slide the switch to front to set the automatic label issuing mode.



- In "Auto issue" mode, the label's presence is detected by the peel sensor. Therefore, the next label is automatically peeled off from the backing paper, and fed out of the label outlet every time current label is removed.

2. "Manual issue" setting

Slide the switch to rear to set the manual label issuing mode.



- The next label is peeled off from the backing paper and fed out of the label outlet every time the [FEED] key is pressed.

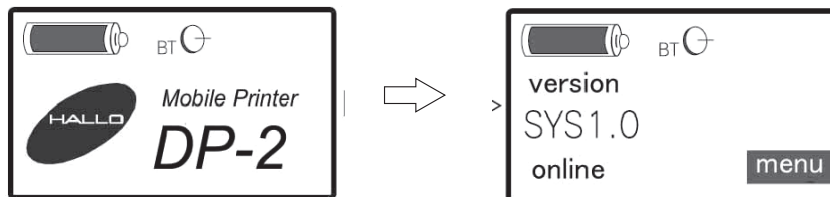
10. Power ON-OFF

10-1. Turn on the power

Hold down the POWER key for about one second and release it when the green Power LED lights up.

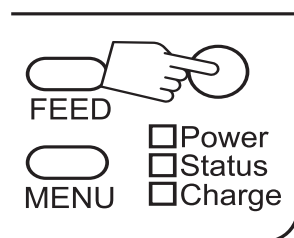
- The following standby screen appears as shown in the figure below after the logo mark is displayed for a few seconds, and the version of the machine continues to be displayed till the first operation.

*Here, the remaining battery level is displayed to indicate the charging state.



10-2. Turn off the power

Hold down the POWER key and release it after the Power LED turns off.



11. Contrast adjustment of the liquid crystal display

(1) Turn on the power.

The standby screen appears.

(2) Press the MENU key for about one second to display the Menu 1/4 screen. Confirm the cursor is located on the [next] button, and press the FEED key.



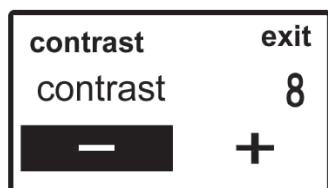
menu 1/4 **next** exit
1. contrast
2. backlight

(3) Confirm that [1. contrast] is selected and press the MENU key.



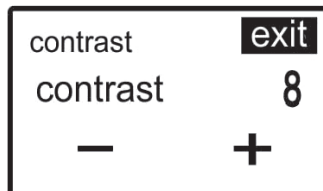
menu 1/4 next exit
1. contrast
2. backlight

- (4) Each time you press the FEED key under this condition, [-], [+], or [exit] is selected in this order.



Select [+] to increase the contrast, or [-] to decrease the contrast, and press the MENU key to change the numeric value for changing the contrast. (1 ~ 16)

- (5) After completing the setting, select [exit] by using the FEED key and press the MENU key.



- (6) The display returns to the Menu 1/4 screen.

Press the MENU key for about one second to return to the standby screen.

12. Adjustment of the backlight lighting time

- (1) Turn on the power.
The standby screen appears.
- (2) Press the MENU key for about one second to display the Menu 1/4 screen. Confirm the cursor is located on the [next] button, and press the FEED key.



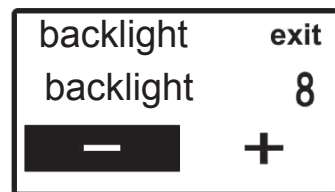
menu 1/4 **next** exit
1. contrast
2. backlight

- (3) Select [2. backlight] by using the FEED key, and press the MENU key.



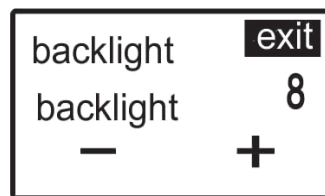
menu 1/4 next exit
1. contrast
2. backlight

- (4) Each time you press the FEED key under this condition, [-], [+], or [exit] is selected in this order.



Select [+] to lengthen the lighting time, or [-] to shorten the time, and press the MENU key to change the numeric value (0 - 90 seconds).

- (5) After completing the setting, select [exit] by using the FEED key and press the MENU key.



- (6) The display returns to the Menu 1/4 screen.

Press the MENU key for about one second to return to the standby screen.

13. Test Printing

13-1. Test printing method 1

- (1) Turn on the power.
The standby screen appears.
- (2) Press the MENU key for about one second to display the Menu 1/4 screen. Confirm the cursor is located on the [next] button, and press the MENU key.

menu 1/4 next exit
1. contrast
2. backlight

- (3) The Menu 2/4 screen appears. Select [3. test print] by using the FEED key, and press the MENU key.

menu 2/4 next exit
3. test print
4. print setting

- (4) Each time you press the FEED key under this condition, [NO], [YES], or [exit] is selected in this order.



Select [NO] by using the FEED key for not printing, and press the MENU key. Then, the Menu 2/4 screen appears. Select [YES] by using the FEED key for printing, and press the MENU key. Then, the test pattern is printed.

- (5) When completing the operation, select [exit] by using the FEED key and press the MENU key.



- (6) The Menu 2/4 screen appears. Press the MENU key for about one second to return to the standby screen.

13-2. Test printing method 2

- (1) Hold down the POWER key while holding down the FEED key to turn on the Power LED, and release both FEED and POWER keys when the test pattern is displayed.
- (2) Confirm that the normal pattern is printed.
 - Contact our dealer if the abnormal pattern should be printed.

Normal pattern



Abnormal pattern



14. Printing the Configuration List

- The set value list is printed in 200mm long and 48mm wide. The print might overflow depending on labels. Receipt paper of 48mm or more in width is recommended.

- (1) Turn on the power.
The standby screen appears.
- (2) Press the MENU key for about one second to display the Menu 1/4 screen. Confirm the cursor is located on the [next] button, and press the MENU key.



```
menu 1/4 next exit
1. contrast
2. backlight
```

- (3) The Menu 2/4 screen appears. Select [4. print settings] by using the FEED key, and press the MENU key.



```
menu 2/4 next exit
3. test print
4. print settings
```

- (4) Each time you press the FEED key under this condition, [NO], [YES], or [exit] is selected in this order.



Select [NO] by using the FEED key for not printing, and press the MENU key. Then, the Menu 2/4 screen appears. Select [YES] by using the FEED key for printing, and press the MENU key. Then, the test pattern is printed.

- (5) When completing the operation, select [exit] by using the FEED key and press the MENU key.

- (6) The Menu 2/4 screen appears.

Press the MENU key for about one second to return to the standby screen.



15. Printer Info

- (1) Turn on the power.


The standby screen appears.

- (2) Press the MENU key for about one second and the menu 1/4 screen appears.

A rectangular box representing a screen. At the top, it says "menu 1/4" followed by a dark square containing the word "next" and the word "exit". Below this, there are two numbered items: "1. contrast" and "2. backlight".

menu 1/4 **next** exit
1. contrast
2. backlight

- (3) Confirm the cursor is located on the [next] button and press the MENU key, the menu 2/4 screen appears.

A rectangular box representing a screen. At the top, it says "menu 2/4" followed by a dark square containing the word "next" and the word "exit". Below this, there are two numbered items: "3. test print" and "4. print settings".

menu 2/4 **next** exit
3. test print
4. print settings

- (4) Confirm the cursor is located on the [next] button and press the MENU key, the menu 3/4 screen appears.

A rectangular box representing a screen. At the top, it says "menu 3/4" followed by a dark square containing the word "next" and the word "exit". Below this, there are two numbered items: "5. Printer Info" and "6. bluetooth".

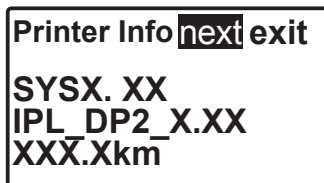
menu 3/4 **next** exit
5. Printer Info
6. bluetooth

- (5) To display the Printer Info, move the cursor to " 5. Printer Info" by using the FEED key.

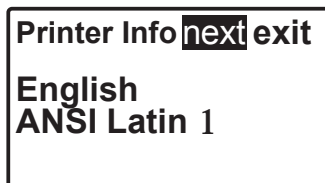


- (6) Confirm the cursor is located on the " 5. Printer Info" and press the MENU key.

The Printer Info screen below appears.



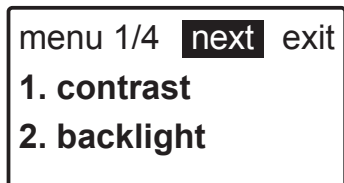
- (7) Press the MENU key and the following screen appears.



To return to the menu screen
Press the MENU key for about one second.

16. Confirmation of Bluetooth™ communication setting value

- (1) Turn on the Power.
The standby screen appears.
- (2) Press the MENU key for about one second to display the Menu 1/4 screen. Confirm the cursor is located on the [next] button, and press the MENU key.

A rectangular box representing a screen. At the top, it says "menu 1/4" followed by "next" in a dark box and "exit". Below that, it lists two options: "1. contrast" and "2. backlight".

menu 1/4 **next** exit
1. contrast
2. backlight

- (3) The Menu 2/4 screen appears. Confirm the cursor is located on the [next] button, and press the MENU key.

A rectangular box representing a screen. At the top, it says "menu 2/4" followed by "next" in a dark box and "exit". Below that, it lists two options: "3. test print" and "4. print settings".

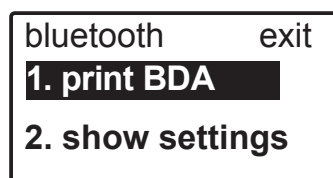
menu 2/4 **next** exit
3. test print
4. print settings

- (4) The Menu 3/4 screen appears.
Select [6. bluetooth] by using the FEED key, and press the MENU key.

A rectangular box representing a screen. At the top, it says "menu 3/4" followed by "next" and "exit". Below that, it lists two options: "5. Printer Info" and "6. bluetooth" in a dark box.

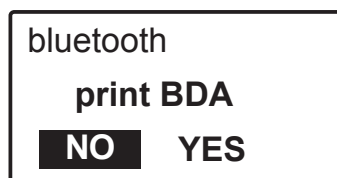
menu 3/4 next exit
5. Printer Info
6. bluetooth

- (5) The selection screen for [1. print BDA] and [2. show settings] appears. Confirm the cursor is located on the [1.print BDA] button, and press the MENU key.



- (6) The [print BDA] screen appears.

In case of [NO]



- In case of [NO], confirm the cursor is located on the [NO], and press the MENU key for about one second to return to the standby screen.
- ※ If the MENU key is pressed on this screen, the screen returns to the previous selection screen.

In case of [YES]

- When printing BDA, select [YES] by pressing the FEED key, and the Bluetooth authentication address (BDA) is printed.
 - After printing BDA, press the MENU key for about one second to return to the standby screen.
 - ※ If the MENU key is pressed on this screen, the screen returns to the previous selection screen.
- (7) Select [2.show settings] on this screen by using the FEED key, and press the MENU key.

```
bluetooth      exit
1. print BDA
2. show settings
```

- ① The initial set values are displayed.

```
bluetooth next exit
BDA/Name:
000190E130A0
SHINSEI PRINTER
```

- ② Confirm the cursor is located on the [next] button, and press the MENU key to display the next set value.

```
bluetooth next exit
PIN:
0000000000000000
Auth:none
```

- ③ Confirm the cursor is located on the [next] button, and press the MENU key to display the last set value.

```
bluetooth next exit
ModuleVersion:
0100
```

- Press the MENU key for about one second on this screen, and the screen returns to the standby screen.
- ※ Confirm the cursor is located on the [next] button and press the MENU key to return to the initial set value screen.
- ※ Selecting [exit] on this screen by using the FEED key and press the MENU key to return to the Menu 3/4 screen.

17. Automatic adjustment of the sensor

Performs the automatic sensitivity adjustment of the label sensor and the Peel sensor.

17-1. Automatic adjustment of the label sensor

- (1) Confirm the cursor is located on the [next] button on the Menu 3/4 screen and press the MENU key, and the Menu 4/4 screen appears. To perform the automatic adjustment of the label sensor to fix the label position, select [7. sensor Adjust] by using the FEED key and press the MENU key.

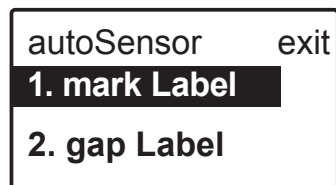


menu 4/4 next exit
7. sensor Adjust
8. peel Adjust

- (2) Selection screen for the label type appears.
Select the label type either [1. mark Label] or [2. gap Label] by using the FEED key.

In case of mark Label

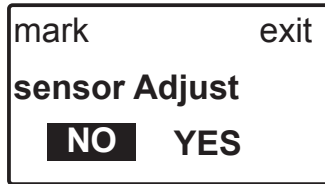
- ① Confirm the cursor is located on the [1. mark Label] and press the MENU key.



autoSensor exit
1. mark Label
2. gap Label

② The mark sensor adjustment screen appears.

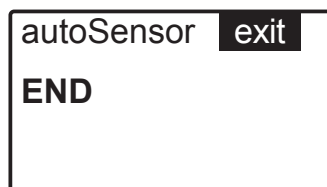
Every time the FEED key is pressed,
[NO] ⇒ [YES] ⇒ [exit] appears.



③ If the sensor adjustment is not required, confirm the cursor is located on the [NO] and press the MENU key to return to the previous selection screen.

④ If the sensor Adjust is required, select [YES] by using the FEED key and press the MENU key.

● If the sensor is adjusted normally, the following screen appears.

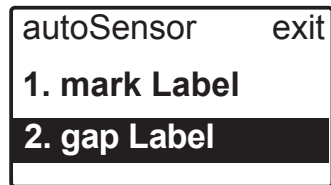


● Press the MENU key for about one second on this screen to return to the standby screen.

※ Confirm the cursor is located on the [exit] on this screen and press the MENU key to return to the previous selection screen.

In case of gap Label

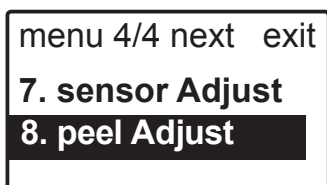
- ① Select [2. gap Label] on the label type selection screen by using the FEED key and press the MENU key.



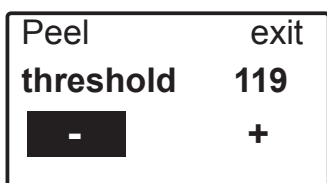
- Hereafter, follow the procedure described in the mark Label
②⇒③⇒④ on the Page 54.

17-2. Automatic adjustment of the Peel sensor

- (1) Confirm the cursor is located on the [next] on the Menu 3/4 screen and press the MENU key to display the Menu 4/4 screen. To adjust the sensitivity of the Peel sensor that detects label, select [8. peel Adjust] by using the FEED key and press the MENU key.




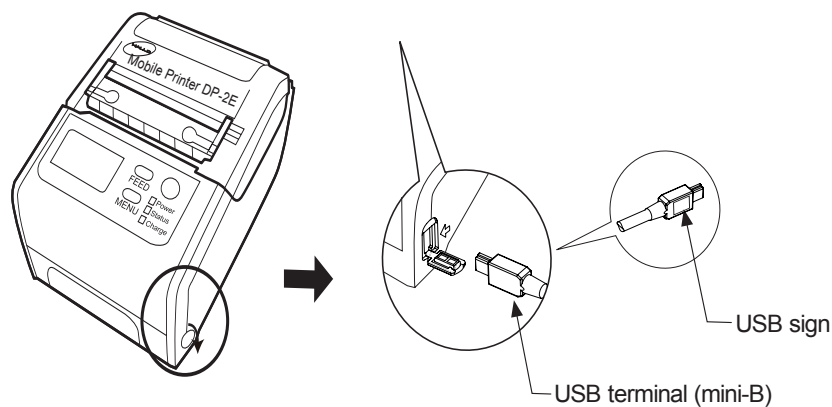
- (2) The threshold setting screen for the Peel sensor appears.



- To lower the threshold, select [-] and press the MENU key. The threshold is lowered one by one by pressing the MENU key. The Peel sensor sensitivity becomes lower if the threshold is lowered.
 - To increase the threshold, select [+] by using the FEED key and press the MENU key. The threshold is increased one by one by pressing the MENU key. The Peel sensor sensitivity becomes higher if the threshold is increased.
- (3) After setting the threshold, press the MENU key for about one second to return to the standby screen.
- ※ Select [exit] by using the FEED key on this setting screen and press the MENU key to return to Menu 4/4 screen.

18. Connecting the USB (mini-B)

- (1) Open the connector cover for USB.
- (2) Connect the USB connection cable (option) with the connector for USB.
 - The USB sign  on the USB terminal (mini-B) must face the arrow sign on the printer.
- (3) This port is only used for data transfer, no supply function.



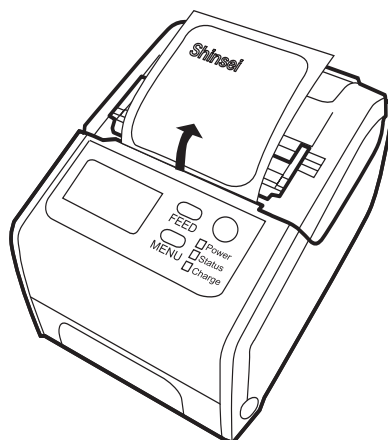
19. Using the Bluetooth™ communications

When printing by the use of Bluetooth™ communications, the use distance is different according to the use environment or the hand-held portable data terminal.

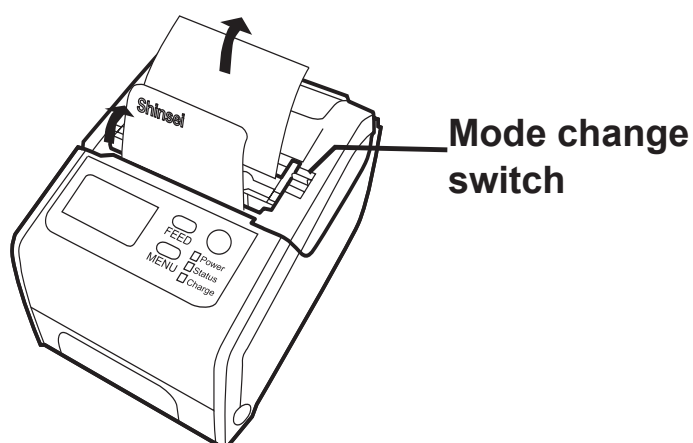
Caution should be exercised because communication distance might shorten remarkably or communications might not be possible particularly around microwave oven, place where interference occurs, or wireless LAN equipment.

20. Label issuing mode

- (1) Data is sent from the personal computer or the hand-held portable data terminal.
- (2) In the case of Tear-off mode
The specified number of labels is printed and fed.




- (3) In the case of Peel-Off mode
You can select "Automatic issue" or "Manual issue" using the change switch.
Slide the switch to either "Auto issue" or "Manual issue" position.
* Refer to 9-2-(8) for more information about "Auto issue" and "Manual issue".



21. Error messages

If an error occurs with this machine, the red Status LED lights up, and the state is displayed. Take measures according to the dealing process.

No.	LCD	LED	Status	Measures
1	cancel / resume printing	Off	This indicates a suspended label issue state.	Makes a selection using the FEED and MENU keys.
2	cool down (count down)	Off	This indicates a resting state due to over-heated motor at the normal issue.	The label will be automatically issued after the motor is cooled.
3	head over heated	Off	This indicates a resting state for cooling due to overheated head. Intermittent operation: about 5 min. ON/ 20 min. OFF.	The label will be automatically issued after the motor is cooled.
4	paper end	On (red)	This indicates a label end detecting state.	Replace with new labels.

No.	LCD	Status LED	Status	Measures
5	Cover open	On (red)	This indicates a cover opening state.	Close the cover.
6	low battery	On (red) for about 10 seconds	This indicates a battery low detecting state. The power will be turned off in 10 seconds.	Charge the battery.
7	head error	Off	This indicates a head failure state.	Contact our dealer
8	label error	On (red)	This indicates a mark undetectable state.	Replace with a correct label.
9	BT 	Off	This indicates a built-in Bluetooth failure state.	Contact our dealer

No.	LCD	Charge LED	Status	Measures
1	(Nothing is displayed)	Blinking	This indicates a battery degradation state.	Replace with a new battery.

22. Daily Check and Cleaning Method

22-1. Printing check (Test pattern printing)

First of all, print the test pattern before issuing labels. Check that the thermal print head works normally and the pattern is printed correctly.

- (1) Turn on the power of this machine.
- (2) Print the test pattern according to the procedure described in Section 13 "Test Printing".
- (3) Check that there is no white line on the printed test pattern.

Normal pattern



Abnormal pattern



22-2. Execution of the head check

The head is automatically checked when the machine power is turned on. If the message "head error" is displayed, contact our dealer.

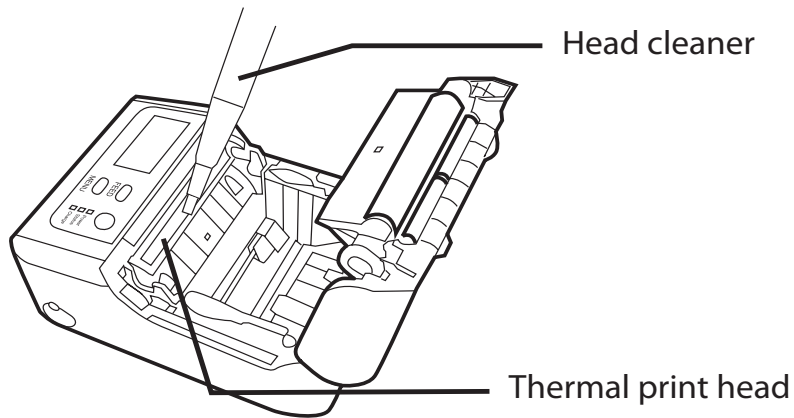
- Use this head check as a guide. Test printing can be normal if the message "head error" is displayed, or the message will not appear if test printing is abnormal. In this case, prioritize test printing.

22-3. Cleaning of the thermal print head

Normal printing cannot be made when glue or dust adheres to the print head, clean the thermal print head.

- (1) Open the cover by lowering the release lever and take out the media roll.
- (2) Check that glue or dust does not adhere to the print head.
- (3) Carefully wipe off extraneous objects if any with the attached head cleaner.

- (4) Use the head cleaner after cutting the dirty part when the cleaner gets dirty.



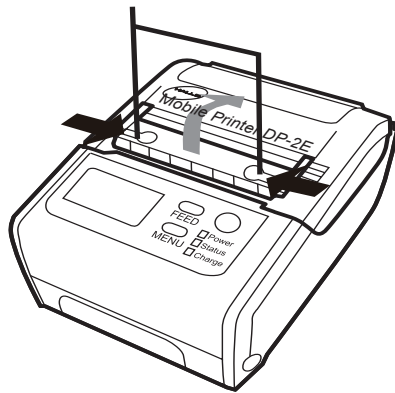
 CAUTION

- Do not use anything other than the specified head cleaner.
- Do not remove extraneous objects with a stiff-pointed thing such as a driver or pencil. Doing so may cause damage of the thermal print head.
- Do not clean the machine when the thermal print head is still high in temperature. Doing so may cause a burn.

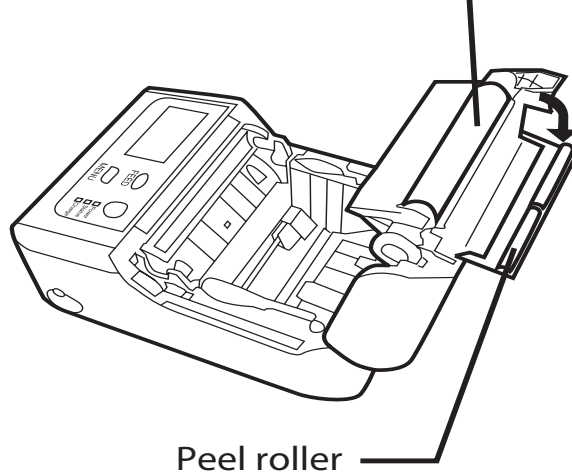
22-4. Cleaning of the platen roller and the peel roller

- (1) Open the peel frame by sliding the peel frame release lever.
- (2) Open the cover by pressing the release lever. Then, take out the media roll.

Peel frame release lever



Platen roller



- (3) Clean the platen and peel rollers with a soft cloth wrung after being soaked in neutral detergent.

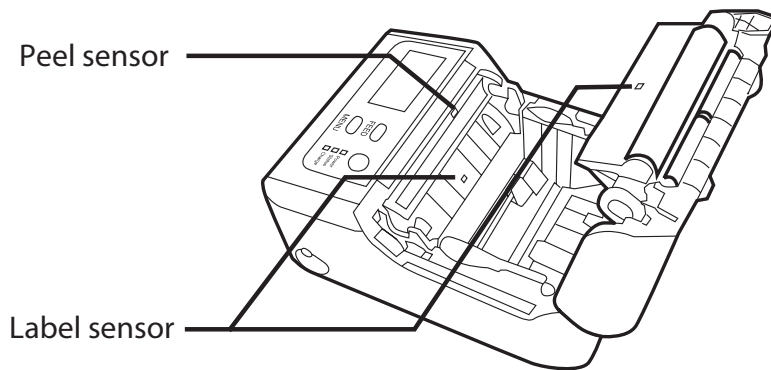


CAUTION

Do not use organic solvents such as benzene and thinner may dissolve the machine or platen roller. Doing so may cause a trouble.

22-5. Cleaning of each sensor

- (1) Open the cover by lowering the cover release lever, and take out the media roll.
- (2) Clean the label sensor and peel sensor with the attached brush.
 - There is a possibility that dusts adhere to the label sensor if the red Status LED lights up even though labels are correctly set.



23. Specifications of this machine

Specifications/Model name		DP-2E
Printer unit	Print method	Direct thermal
	Resolution	8 dots/mm (203 dpi)
	Print speed	Max. 100mm/second (standard printing)
	Effective print range	Width: 48mm Length: 100mm
External dimensions	<ul style="list-style-type: none"> • DP-2E (for a small label roll) 123mm(L) x 85mm(W)x 64mm(H) (excluding protruding portions) • DP-2E (for a large label roll) 146mm(L) x 85mm(W) x 76mm(H) (excluding protruding portions) 	
	Weight	<ul style="list-style-type: none"> • DP-2E (for a small label roll) 398g (including battery pack) • DP-2E (for a large label roll) 411g (including battery pack)
Power supply		Battery

Display unit	LCD	128 x 64 dots Dot matrix liquid crystal display (with backlight)
	LED	3 LEDs (Power, Status, Charge)
Operation panel	Buttons	3 buttons (Power, MENU, FEED)
Interfaces	Bluetooth™	Bluetooth™ Conforming to Ver. 1.2 (Class 2)
	USB cable (mini-B)	Use of exclusive use cable
Communication method	SPLM (command method using special protocols)	
Label printing mode	Tear-off, Peel-off	
Label (Outside wound label/paper only)	Label backing paper width	24 - 58mm
	Media roll outside diameter	58mm or less (for a small label roll) • DP-2E (for a large label roll) 70mm or less (desk-top standard label)
	Label mark type	I mark/Black mark, Gap, No mark

Barcode type		EAN 8, EAN 13, JAN 8, JAN 13, UPC-A, UPC-E, NW-7, Interleaved 2 of 5 (ITF), CODE 39, CODE 128, EAN 128, RSS
Two-dimensional code		QR Code, PDF 417
Font		<p>Bit map fonts:</p> <p>SSF1: 16 x 24 dots</p> <p>SSF2: 24 x 32 dots</p> <p>Outline fonts (scalable):</p> <p>A Gothic, F European, C European, Gothic, MINCHO, OCR-B</p> <p>Pop font</p> <p>Bit map Kanji fonts (JIS Level 1 & 2):</p> <p>Gothic: 16 x 16, 22 x 22, 24 x 24 dots</p> <p>MINCHO: 22 x 22, 24 x 24 dots</p> <p>Outline Kanji fonts (JIS Level 1 & 2):</p> <p>Gothic (Scalable within 127 dots)</p>
Functions	Self-diagnosis	Error message is displayed on the LCD.
	Power saving	Sleep mode Auto power off Remaining battery level indication
Optional accessories		<p>Charger adapter (CV-74)</p> <p>Battery charger (CH-74)</p> <p>Battery pack (BH-74)</p> <p>Protector (DP-74)</p> <p>Belt hook (DH-74B)</p> <p>USB cable (mini-B)</p> <p>Portable holster (DH-74)</p> <p>Auxiliary case (HH-74)</p> <p>Rainproof case (DH-74R)</p>

24. Important Notices

1. No part of this manual may be reproduced in any form, or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission.
2. The information in this manual is subject to change without notice.
3. The information in this manual has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors, or omissions.
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