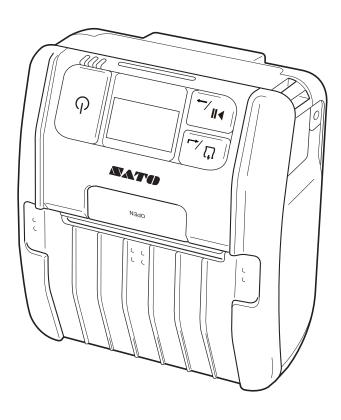


Barcode Printer

VP208

Operator Manual



SATO CORPORATION

Preface

Thank you for purchasing SATO VP208 printer (hereafter "the printer").

This manual supplies basic information on how to operate the printer in a short period.

Read the manual carefully to understand each function before use.

Notes

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Regulatory Approval

机器名称:条码打印机

	1					
	有毒有害物质或元素					
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴 联苯 (PBB)	多溴二 苯醚 (PBDE)
印刷电路板	×	0	0	0	0	0
电源、交流转换 器电池组	×	0	0	0	0	0
热敏头、液晶显示屏	×	0	0	0	0	0
电动机、切纸机	×	0	0	0	0	0
树脂(ABS、PC 等)	×	0	0	0	0	0
金属(铁、非铁金属)	×	0	0	0	0	0
电缆等	0	0	0	0	0	×
包装材料(纸盒 等)	0	0	0	0	0	0

本表格依据SJ/T 11364的规定编制。

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- 注1): "环保使用期限"不是安全使用期限。尤其不同于基于电气 性能安全、电磁安全等因素而被限定的使用期限。产品在经 适当使用后予以废弃时,希望依照有关电子信息产品的回收 和再利用的法律与规定进行处理。
- 注2): 本标志中的年数为"环保使用期限",不是产品的质量保证 期限。对于同一包装内包含电池、充电器等附属品的产品,产品和附属品的环保使用期限可能不同。

First edition: Jul. 2015 Third edition: Jul. 2016

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Safety Precautions

This section describes how to safely operate the printer.

Be sure to read and understand all instructions carefully before you use the printer.

- •These symbols show the safe and correct operation of the printer and how to prevent injury to others and property damage.
- •The symbol explanations are as follows.



The Warning symbol indicates that you can cause death or serious injury if you do not follow the instruction or procedure.



The Caution symbol indicates that you can cause injury or property damage if you do not follow the instruction or procedure.

•The symbol explanations are as follows.



The pictograph means "Caution is required".











The pictograph means "Must not be done".











The pictograph means "Must be done".



! WARNING



■ Do not use other than the specified voltage.

 Do not use other than the specified voltage (100 to 240 V AC). Doing so could cause a fire or electric shock.

■ Do not place objects into the printer

 Do not place metal or flammable objects inside the printer's opening. If a foreign object gets into the printer, immediately power off the printer and disconnect the AC adapter from the outlet. Then contact your SATO reseller or technical support center. If you operate the printer in this condition, it may cause fire or electric shock.

■ Handling of the AC Adapter

- Do not damage, break, or change the AC adapter. If you place a heavy object on the AC adapter or heat, bend too much, twist, or pull the AC adapter, the AC adapter may be damaged, which may cause fire or electric shock.
- If the AC adapter is damaged (the wires exposed or broken), contact your SATO reseller or technical support center. If you operate the printer in this condition, it may cause fire or electric shock.

When the printer has been dropped or broken

 If the printer is dropped or broken, immediately power off the printer and contact your SATO reseller or technical support center. If you operate the printer in this condition, it may cause fire or electric shock.

■ Do not use the printer when something is unusual about it

Continuing to use the printer in the event something is unusual about it, such as smoke or unusual smells coming from it, may cause fire or electric shock. Immediately power off the printer and disconnect the AC adapter from the outlet. Then contact your SATO reseller or technical support center for repairs. It is dangerous for the customer to try to repair the printer, so absolutely do not try repairs on your own.



■ Do not disassemble the printer.

Do not disassemble or modify the printer.
 Doing so may cause fire or electric shock.
 Contact your SATO reseller or technical support center to perform internal inspections, adjustments, and repairs.



■ Do not operate with wet hands.

 Do not operate the power switch, connect or disconnect the AC adapter with wet hands. Doing so could cause an electric shock.



■ Using the printer cleaning fluid

 Use of flame or heat around the printer cleaning fluid is prohibited. Do not heat it or subject it to flames.

↑ WARNING



- Do not use in hazardous locations.
- The printer is not explosion proof certified.
- Do not use in a potentially explosive environment or atmosphere.

! CAUTION



■ Carrying the printer

 When setting the printer on the floor or a stand, make sure not to get your fingers or hands pinched under the printer feet.

■ AC adapter

- When disconnecting the AC adapter from the outlet, be sure to grip it by the plug. Pulling on the cord may expose or break the wires and possibly cause fire or electric shock.
- Do not put the AC adapter near a hot device. Leaving the AC adapter near a hot device could cause the adapter's housing to melt and possibly cause fire or electrical shock.

■ Print head

- Touching the edge of the print head with bare hand could cause injury. Be careful not to get injury for replacing the paper or cleaning.
- You should not replace the print head without having received the correct training. Doing so could cause injury, burned or an electric shock.

■ Handling the AC adapter when moving

 On the occasion of carrying, first disconnect the AC adapter from the outlet. If the AC adapter is not disconnected, it may be damaged, which may cause fire or electric shock.

■ Storing the printer cleaning fluid

 Keep the fluid out of reach of children. If a child accidentally drinks the fluid, immediately consult with a physician.



Cutter

 The cutter has the blade edge. Be careful not to get cut your finger.



■ Print head (taking care of high temperature)

 The print head is hot after printing. Be careful not to get burned when replacing paper or cleaning.



■ Cover

 Be careful not to get your fingers pinched when opening or closing the top cover.



■ When not using the printer for a long time

 When not using the printer for a long time, remove the battery, and disconnect the AC adapter from the outlet to maintain safety.

■ During maintenance and cleaning

 When maintaining and cleaning the printer, remove the battery to maintain safety. Also disconnect the AC adapter from the outlet.

Safety Precautions on Batteries

Be sure to read the instructions below to avoid decreased life span of the battery, overheating, smoke, rupture, or fire.

MARNING



- Do not disassemble or modify the battery, such as soldering wire to the battery directly.
- Do not apply heat to the battery or place the battery in fire.
- · Avoid short-circuiting the battery terminals.
- When charging the battery, use the specified AC adapter.
- Do not touch the battery terminals with wet fingers or moisten the battery with water or salty water.
- Do not give serious shock to the battery or throw the battery. Also avoid using a broken or deformed battery.
- Do not rub your eyes if battery fluid leaks out and comes into contact with your eyes. Rinse well with clean water such as tap water, and seek medical attention immediately. If leave as it is, it may cause eye damage.
- If charging is not completed after the specified time elapses, stop charging.
- If you notice any unusual odor, heat, deformation, discoloration, or any other abnormal conditions while using, charging, or storing the battery, do not use the battery.
- If you notice battery leakage or unusual smell, do not use the battery. Keep the battery away from fire.
- If you notice any dents or cracks on your battery crust caused by strong impacts or shocks, stop using the battery immediately and replace it with a new one. Continued use under these conditions may lead to abnormal overheating or fire.

MARNING



The life expectancy of the lithium ion battery pack ("battery") varies depending on usage. We recommend that you replace the battery after 500 charge cycles or 3 years from the date of first use, whichever is earlier.

⚠ CAUTION



- Do not place battery in a high-temperature location, such as under direct sunlight or inside a closed car in hot weather.
- If battery fluid leaks out and comes into contact with your skin or clothes, rinse well with clean water such as tap water. Battery fluid can damage human skin.
- If you notice corrosion, unusual odor, heat, or any other abnormal conditions in the first use of the battery, do not use it and contact your SATO reseller or technical support center.

For Batteries

- To ensure the efficient use of scarce resources, isolate any used batteries by sealing the terminals with a tape and contact your SATO reseller or technical support center.
- Do not place the battery together with other batteries, such as dry-cell batteries.

Precautions for Handling

Place the printer on a surface that is flat and level.

Do not place the printer in an unlevel or slanted place. Doing so could cause falling.

Do not put the printer on a location that produces vibration.

Do not put the printer on a location that produces vibration.

Keep the printer out of high temperature and humidity.

Do not put the printer on a location with high temperature or humidity. High temperature and humidity may cause the decrease of life span of the printer. (recommended temperature: 10 to 30°)

Avoid dust.

Do not put the printer on a location exposed to dust. It may cause failure or the decrease of life span of the printer.

Do not supply power near from a heater or refrigerator.

Do not supply power from the power source near an electrical device that requires a measurable amount of power. Voltage reduction may cause malfunction or defect.

Checking the Including Items

Check the including items.

If there is a missing item, contact the SATO reseller or technical support center.

Global Warranty Program leaflet



Quick guide



BD address sticker

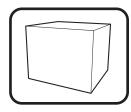


Battery

AC adapter (for Thailand, Vietnam)

▲ Keep the Warranty and Packaging

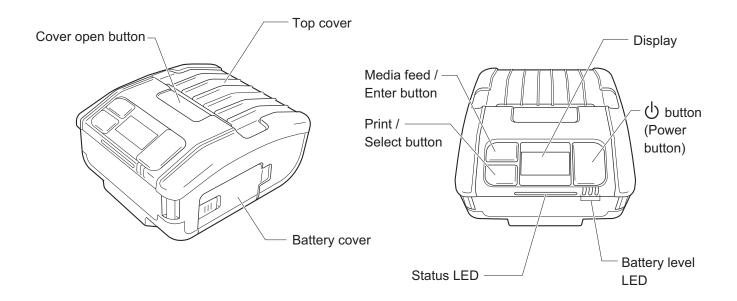
The printer is guaranteed for six months after installation for normal operation, and repair is free of charge.

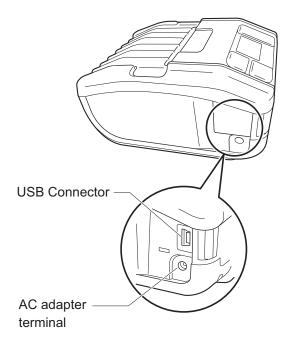


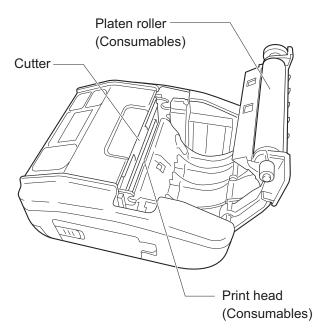
Keep the box and packaging materials for this printer. When requesting repairs, pack the printer in the original box with the original padding for shipment.

1 Before You Start

1. Parts Identification







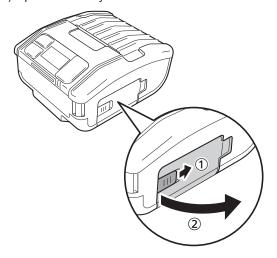
The print head prints on the label roll.
 The platen roller feeds the label roll.
 Perform maintenance regularly, as these parts are for printing.

2. Charging a Battery

1. Inserting a Battery

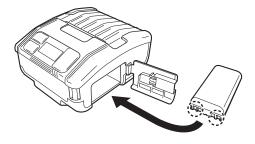
1. Open the battery cover.

- 1) Slide the lever of the battery cover ①.
- 2) Open the battery cover ②.



2. Insert a battery.

1) Insert a battery from the metal side.



3. Close the cover.

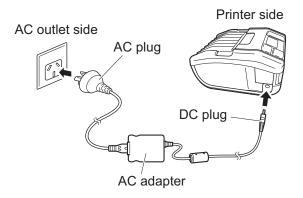
- 1) Close the battery cover ①.
- 2) Slide the lever of the battery cover with the battery cover pressed shut ②.



2. Charging the Battery

1. Connect the AC adapter.

Connect the DC plug to the printer and the AC plug to the AC outlet.



CAUTION

The attached AC adapter is exclusive for this printer. It must not be used with any other electric device. If an AC adapter other than the supplied one is connected to this printer, it may cause a malfunction. Do not use it.

AC adapter

Manufacturer: Unifive Technology Co., Ltd.

Model name: UI315-1015

2. Start charging.

During charging, do not power down the printer. For details on the display during charging, see "Icon" (page 8).

On Batteries

- The battery is consumable. Even if the battery is fully charged, operation time gradually becomes shorter. It is the battery's characteristics, not an error or problem.
- The number of charges (about 500 times) and charging time (about 4 hours) are for reference. They depend on temperature around the charger or battery conditions.
- Charge the batteries in a place of +5 to +35°C.
 Charging in high or low temperature may cause battery deterioration.
- If the printer is too hot to too cold, keep the battery in a place of +5 to +35°C for about 1 hour then charge the battery. Charging between +10 and +30°C is recommended.
- If the battery has not been used for a long period of time, it may have self-discharged. Charge the battery before use
- Do not keep the battery fully charged. The battery may become deteriorated.
- Do not keep the battery in high temperature. The battery may become deteriorated.

Notes on Charging

- When the AC adapter is connected to a wall outlet with the power off, the power is automatically turned on.
- If the Power button is pressed during charging, the error below is displayed.

Error 43 "CHARGING Wait till charging is complete."

• If the battery is removed during charging, the error below is displayed.

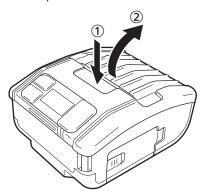
Error 42 "NO BATTERY Please put battery."

- Even if AUTO POWER-OFF is set to "Enable," the printer does not turn off during charging.
- In low battery status, printing and feeding cannot be done during charging. Wait until the low-battery error is released.
- During charging, the printer operates in normal mode.
 However, if the printer has been set to start energy saving mode, the printer operates in energy saving mode even when charging.
- If a battery error occurs, do not use that battery.
 Replace it.
- If a NO BATTERY error occurs with the battery installed in the printer, replace the battery.
- If the printer is powered down during printing using a deteriorated battery and cannot be restarted, replace the battery.
- The power is turned off once charging is complete, independently of the printer operation.

3. Setting the Label

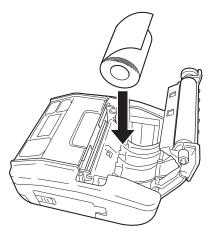
1. Open the top cover.

- 1) Push the cover open button ①.
- 2) Open the top cover ②.



2. Set the label roll.

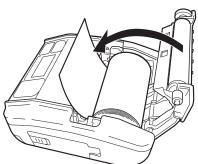
Set the label roll so that the surface touches the print head.



If the label roll is difficult to be set, rewind the label roll so that the ends of the roll becomes even.

3. Close the top cover.

Close the cover until it clicks.



4. Display

The display has three modes.

- 1. Normal mode
- 2. Error message mode
- 3. Settings mode

Displayed items differ depending on the mode.

1. Normal Mode

This display appears in normal mode.



- 1) Shows the icon.
- ② Shows the message.
- 3 Shows the remaining battery level.

2. Error Message Mode

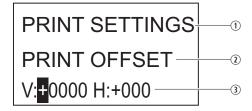
This display appears in error message mode.



- ① Shows the error number.
- ② Shows the error contents.
- 3 Shows how to release the error status.

3. Settings Mode

This display appears in settings mode.



- ① Shows the type of setting menu.
- ② Shows the items to be set.
- 3 Shows the contents.

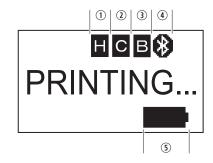
5. Icon

The icons indicate three types of information.

- 1. Interface information
- 2. Warning information
- 3. Battery information

The information is displayed in the position corresponding to the type.

Display



1. Interface Information

This information appears at position ④ on the display.

No.	Icon	Description	
1	*	Bluetooth interface is selected, but the connection with the master device has not been made.	
2	8	Bluetooth interface is selected and the connection with the master device has been made.	
3	÷	USB interface is selected.	

2. Warning Information

This information appears at positions ① to ③ on the display.

	The internation appears at positions of to gothers display.		
No.	Icon	Description	
1	Н	The filament of the print head is open.	
2	С	Command error is detected.	
3	В	Receive buffer near full is detected.	

- The icon appears in order of the error being detected.
- H: Indicates a head error for some print layout. See "2 List of Warning Icons" (→page 42).
- C: Indicates that the print data may be incorrect. Check the print data. See "2. List of Warning Icons" (→page 42).
- B: Indicates that the print data buffer is full. Wait for a while. See "2. List of Warning Icons" (→page 42).

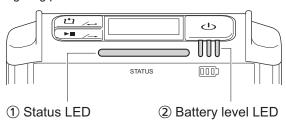
3. Battery Information

This information appears at position ⑤ on the display.

No.	Icon	Description
1		Battery remaining level is "3."
2		Battery remaining level is "2."
3		Battery remaining level is "1."
4	\$3 \$3 \$7	The A C adapter is connected and the battery is being charged. The displayed icon indicates the battery remaining level.
5	30 30	The temperature inside the printer is extremely high and the battery cannot be charged. This icon appears only when the AC adapter is connected. The displayed icon indicates the battery remaining level.

6. Lighting Pattern When the LED Lights

The lighting patterns of the LEDs are described here.



① Status LED

Color: Green/Red

Contents: Printer status

② Battery level LED Color: Green

Contents: Supplying power to the printer

Remaining battery level

There are five types of flashing.

Symbol	Flashing length	Interval of ON/OFF
•	Lit	-
0	Unlit	_
0	Flashing	500 ms lit
⊚ 250	Flashing with short interval	250 ms lit
⊚1800	Flashing with long interval	200 ms lit, 1800 ms unlit

1. Normal Mode

AC adapter	Dottoni	Status (STATUS)	Remaining battery level		
AC adapter connection	Battery mode		1	2	3
			(Green)	(Green)	(Green)
	Level 3	_	•	•	•
	Level 2	-			0
Not connected	Level 1	-	⊚ 250	0	0
Connected	Level 0*1	Red	0	0	0
	Not installed				
Connected	Charging is complete.	-	•	•	•
	Level 3	_			0
	Level 2	-		0	0
	Level 1	_	0	0	0
	Level 0*1	Red ⊚	0	0	0
	Not installed*2	Red ●	0	0	0

^{-:} Depending on the printer status

^{*1} Low battery (Error 41)

^{*2} No battery (Error 42)

2. Energy Saving Mode

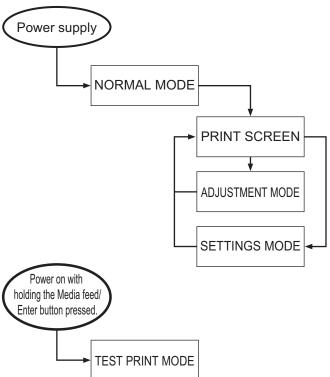
AC adapter	Battery	Status	Remair	ning batte	ery level		
connection	mode	(STATUS)	1 (Green)	2 (Green)	3 (Green)		
	Level 3	Green ⊚ 1800	0	0	0		
	Level 2	Green ⊚ 1800	0	0	0		
Not connected	Level 1	Green ⊚ 1800	0	0	0		
	Level 0*1						
	Not installed						
Connected	Charging is complete.	_	•	•	•		
	Level 3	Green ⊚ 1800	•	•	©		
	Level 2	Green ⊚ 1800	•	©	0		
	Level 1	Green ⊚ 1800	0	0	0		
	Level 0*1						
	Not installed*2						

^{-:} Depending on the printer status
11 Low battery (Error 41)

^{*2} No battery (Error 42)

2 Operations

This printer has two modes, normal startup and test print mode.



1. Normal Startup

1. Printer Startup and Shut Down

1.1 Printer Startup

1. Press the () button (Power button).



2. When "ONLINE" is displayed, preparation is completed.



The first time "FEED AT BOOT" is activated. If a label roll is not set in the printer or not set in the printer correctly, an error is displayed.

1-2. Printer Shut Down

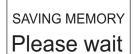
1. Press the (button (Power button).



2. The SAVING MEMORY screen appears.

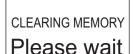
This appears when the power is turned off while data are being stored or being cleared.

Writing screen



Screen for writing data. Message: Please wait.

Clearing screen



Screen for clearing data. Message: Please wait.

■ Notes on Writing Data

- The displayed period depends on the data size.
- If the power is turned off during storing of multiple items, data being stored are saved but subsequent data will not be saved.

Example)

If five data items are to be stored and the power is turned off during storing of the third data item, "SHUTTING DOWN..." appears when the third data item has been saved. The fourth and fifth data items will not be saved.

■ Notes on Clearing Data

 If the power is turned off during clearing multiple data, "SHUTTING DOWN..." appears when clearing is completed.

Example)

If 999 data items are to be cleared and the power is turned off during clearing of data, "SHUTTING DOWN..." appears when clearing of 999 data item has been completed. Clearing 999 data items takes about three minutes.

3. "SHUTTING DOWN..." appears.

SHUTTING DOWN...

Power-down is in progress. Wait until the display disappears.

Depending on the Bluetooth communication status, the time for displaying this screen may be longer.

2. Normal Mode

2-1. ONLINE

ONLINE screen



Screen for waiting for data reception.

PRINTING screen



Screen for printing a label.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to the OFFLINE screen.

2-2. OFFLINE

OFFLINE screen



The printer cannot receive the data.

Press the Print/Select button to set to ONLINE.

PAUSE screen



Screen for printing a label temporarily stopped.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to the ONLINE screen.
Media feed/Enter	Feed 1 sheet.
Print/Select + Press for 3 sec. or more.	Changes to adjustment mode.
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Data exist. • Changes to the cancel printing screen No data exists • Changes to setting mode.
Print/Select + Media feed/Enter	Changes to cancel printing

2-3. Cancel Printing

PAUSE CANCEL PRINT JOB

YES NO

Clears the received data completely.

Default: NO

YES: Clears the data and changes to OFFLINE.

NO: Does not clear the data and changes to OFFLINE.

Button name and button pressing	Screen and printer operation
Print/Select	Select "YES" or "NO."
Media feed/Enter	Changes to OFFLINE screen or PAUSE screen. YES Changes to the print data cleared screen.
Print/Select + Media feed/Enter	Changes to OFFLINE or PAUSE screen.

2-4. Print Data Cleared Screen

This screen indicates that the data have been cleared.

PAUSE
CANCEL PRINT JOB
COMPLETED

All received data have been cleared. This is displayed for about 3 seconds then changes to the OFFLINE screen.

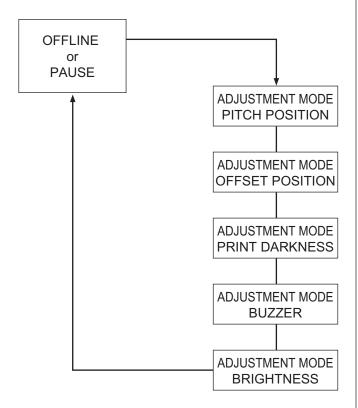
3. Adjustment Mode

When you press and hold the Print/Select button for 3 seconds or more, the screen changes to the adjustment mode

The adjustment mode has five types.

- 1 Pitch position adjustment
- 2 Offset position adjustment (page 14)
- 3 Print darkness adjustment (page 14)
- 4 Buzzer setting (page 15)
- 5 Brightness adjustment (page 15)

Screen Transition for Adjustment Mode



3-1. Pitch Position Adjustment

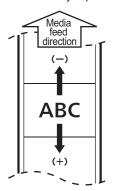
ADJUSTMENT MODE PITCH POSITION

+0.00mm

ADJUSTMENT MODE PITCH POSITION +0.00mm

Adjust the pitch position.

Initial value: +0.00 mm
Setting range: -3.75 to +3.75
The media-feed direction is indicated by a plus or minus sign.



Button name and			
	Screen and printer operation		
button pressing			
	Cursor positionsign		
Print/Select	• Toggles "+" and ""		
Timbocicot	Cursor positiondigit		
	Changes the value by 0.25.		
	Cursor positionsign		
	The cursor moves to digit.		
Media feed/Enter	Cursor positiondigit		
	 Moves to the offset position 		
	adjustment screen (page 14).		
	Cursor positionsign		
	No print data exists: Changes		
	to the OFFLINE screen		
Print/Select +	(page 12)		
Media feed/Enter	 Print data exist: Changes to 		
	the PAUSE screen (page 12)		
	Cursor positiondigit		
	• The cursor moves to sign.		
	No data exists.		
Print/Select +	Changes to the OFFLINE		
Media feed/Enter	screen (page 12)		
+ Press for 3 sec. or	Data exist.		
more.	 Changes to the PAUSE 		
	screen (page 12).		

3-2. Offset Position Adjustment

ADJUSTMENT MODE OFFSET POSITION

+0. 00mm

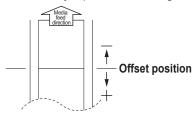
ADJUSTMENT MODE OFFSET POSITION +0.00mm

Adjust the offset position.

Initial value: +0.00 mm

Setting range: -3.75 to +3.75

The adjustment direction is indicated by a plus or minus sign.



Button name and		
button pressing	Screen and printer operation	
	Cursor positionsign	
Print/Select	• Toggles "+" and ""	
FILLINGEIECT	Cursor positiondigit	
	Changes the value by 0.25.	
	Cursor positionsign	
	The cursor moves to digit.	
Media feed/Enter	Cursor positiondigit	
	Changes to the print darkness	
	adjustment screen.	
	Cursor positionsign	
Print/Select +	Changes to the pitch position	
Media feed/Enter	adjustment screen (page 13).	
Media leed/Enter	Cursor positiondigit	
	The cursor moves to sign.	
	No print data exists	
Print/Select +	Changes to the OFFLINE	
Media feed/Enter	screen (page 12)	
+ Press for 3 sec. or	Data exist.	
more.	Changes to the PAUSE	
	screen (page 12).	

3-3. Print Darkness Adjustment

ADJUSTMENT MODE PRINT DARKNESS

50

ADJUSTMENT MODE PRINT DARKNESS

50

Adjust the print darkness.

Initial value: 50

Setting range: 00 to 99 The value "00" is the lightest

setting

The value "99" is the darkest

setting.

Button name and button pressing	Screen and printer operation
Print/Select	Changes the digit from "0" to "9."
	Cursor positiontens digit
	The cursor moves to digit.
Media feed/Enter	Cursor positiondigit
	Changed to the buzzer setting
	screen (page 15)
	Cursor positiontens digit
	Moves to the offset position
Print/Select +	adjustment screen.
Media feed/Enter	Cursor positiondigit
	The cursor moves to tens
	digit.
	No print data exists
Print/Select +	Changes to the OFFLINE
Media feed/Enter	screen (page 12).
+ Press for 3 sec. or	Data exist.
more.	Changes to the PAUSE
	screen (page 12).

• If the color darkness setting is darker, print speed may be slower.

3-4. Buzzer Setting

ADJUSTMENT MODE BUZZER

ENABLE DISABLE

Enable or disable buzzer activation.

Default: ENABLE

ENABLE: The buzzer will sound. DISABLE: The buzzer will not

sound.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	Changes to the brightness
iviedia leed/Efflei	adjustment screen.
Print/Select +	Changes to the print darkness
Media feed/Enter	adjustment screen (page 14).
	No print data exists
Print/Select +Media	Changes to the OFFLINE
feed/Enter	screen (page 12).
+ Press for 3 sec. or	Data exist.
more.	Changes to the PAUSE
	screen (page 12).

3-5 Brightness Adjustment

ADJUSTMENT MODE BRIGHTNESS

Set the brightness of the display.

Initial value: 2 Setting range: 1 to 3 Dark 1 < 2 < 3 Bright

Button name and button pressing	Screen and printer operation
Print/Select	Changes the digit from "1" to "3."
	Decides the value at the cursor
Media feed/Enter	position and changes to the
	brightness adjustment screen.
Print/Select +	Changed to the buzzer setting
Media feed/Enter	screen.
	No print data exists
Print/Select +	Changes to the OFFLINE
Media feed/Enter	screen (page 12).
+ Press for 3 sec. or	Data exist.
more.	Changes to the PAUSE
	screen (page 12).

4. Settings Mode

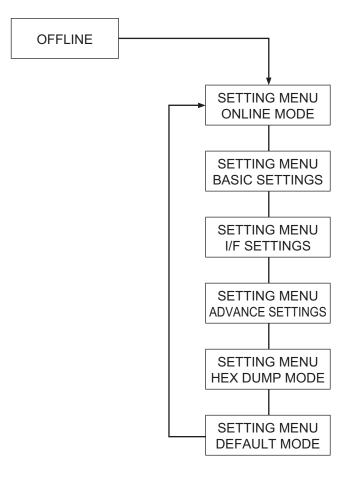
This mode is for the administrator.

The settings mode has six types.

- 1 ONLINE MODE (page 16)
- 2 BASIC SETTINGS (Page 16)
- 3 I/F SETTINGS (page 23)
- 4 ADVANCE SETTINGS (page 27)
- 5 HEX DUMP MODE (page 31)
- 6 DEFAULT MODE (page 32)

If the Print/Select button and Media feed/Enter button are held pressed simultaneously for 3 seconds or more with the OFFLINE screen displayed, the ONLINE MODE screen appears.

Screen Transition for Settings Mode



4-1. ONLINE MODE

Select ONLINE MODE.

When one second has passed after the screen appears, the message shown below scrolls on the lower part of the screen.



Message: Back to ONLINE Mode.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to the BASIC SETTINGS
	screen
Media feed/Enter	Changes to the ONLINE screen
iviedia leed/Enter	(page 12).
Print/Select +	Changes to the OFFLINE screen
Media feed/Enter	(page 12).

4-2. BASIC SETTINGS

Select BASIC SETTINGS.

When one second has passed after the screen appears, the message shown below scrolls on the lower part of the screen.

SETTING MENU BASIC SETTINGS

Message: Configure Basic Settings.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to the I/F SETTINGS
Print/Select	screen (page 23).
Media feed/Enter	Changes to the BASIC SETTINGS
iviedia ieed/Entei	screen
Print/Select +	Changes to the OFFLINE screen
Media feed/Enter	(page 12).

The basic settings comprise 3 types of settings.

1 PRINT SETTINGS

: ADJUST SETTINGS, PRINT SPEED, PRINT DARKNESS, PRINT OFFSET

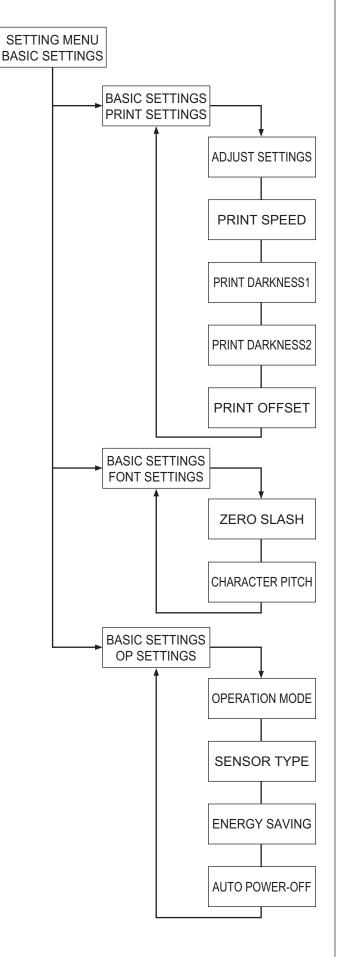
2 FONT SETTINGS

: ZERO SLASH, CHARACTER PITCH

3 OP SETTINGS

: OPERATION MODE, SENSOR TYPE, ENERGY SAVING, AUTO POWER-OFF

Screen Transition for Basic Settings



4-2-1. PRINT SETTINGS

Select PRINT SETTINGS.

When one second has passed after the screen appears, the message shown below scrolls on the lower part of the screen.



Message: Configure Print Settings.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to the FONT SETTINGS
Print/Select	screen (page 20).
Media feed/Enter	Changes to the ADJUST
	SETTINGS screen.
Print/Select +	Changes to the BASIC SETTINGS
Media feed/Enter	screen (page 16)

4-2-1-1 ADJUST SETTINGS

PRINT SETTINGS ADJUST SETTINGS	The settings f displayed.	or this printer are
PITCH +0.00 ►	PITCH:	Displays the
PRINT SETTINGS		adjustment settings for the print position.
ADJUST SETTINGS	OFFSET:	Shows the
OFFSET +0.00 ►		adjustment settings
DDINIT OFTTINIOO		for the tear-off/cut
PRINT SETTINGS		stop position.
ADJUST SETTINGS	DARKNESS:	Shows the
DARKNESS 50 ▶		adjustment settings
		for the print
		darkness.

Button name and button pressing	Screen and printer operation
Print/Select	Switches "PITCH," "OFFSET," and "DARKNESS."
Media feed/Enter	Changes to the PRINT SPEED screen (page 18).
Print/Select +	Changes to the PRINT SETTINGS
Media feed/Enter	screen.
Print/Select +	
Media feed/Enter	Changes to the PRINT SETTINGS
+ Press for 3 sec. or	screen.
more.	

4-2-1-2 PRINT SPEED

PRINT SETTINGS
PRINT SPEED

Set the print speed.

Initial value: 4 Setting range: 4 to 6

4: 100 mm/sec. (4 inch/sec.)

5: 125 mm/sec. (5 inch/sec.)

6: 140 mm/sec. (5.6 inch/sec.)

Button name and button pressing	Screen and printer operation
Print/Select	Selects the print speed.
Media feed/Enter	Changes to the PRINT DARKNESS 1 screen.
Print/Select + Media feed/Enter	Changes to the ADJUST SETTINGS screen (page 17).
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Changes to the PRINT SETTINGS screen (page 17).

4-2-1-3 PRINT DARKNESS 1

PRINT SETTINGS
PRINT DARKNESS1
05 A

Set the print darkness and darkness range for other than barcode and 2D codes.

Initial value: 05/A Setting range:

Print darkness: 01 to 10

The lightest is 01 and the darkest is 10. A value larger than that for PRINT DARKNESS 2 cannot be set.

Darkness range: A (fixed)

Button name and button pressing	Screen and printer operation
Print/Select	Switches the print darkness and the darkness range.
Media feed/Enter	The cursor position indicates the print darkness. (digit) • The cursor moves to the darkness range (alphabetical). The cursor position indicates the darkness range. (alphabetical) • Changes to the PRINT DARKNESS 2 screen.
Print/Select + Media feed/Enter	The cursor position indicates the print darkness. (digit) • Changes to the PRINT SPEED screen. The cursor position indicates the darkness range. (alphabetical) • The cursor moves to PRINT DARKNESS (digit).

Print/Select +	
Media feed/Enter	Changes to the PRINT SETTINGS
+ Press for 3 sec. or	screen (page 17).
more.	

4-2-1-4 PRINT DARKNESS 2

PRINT SETTINGS
PRINT DARKNESS2
05 A

Set the print darkness and darkness range for the barcodes and 2D codes.

Initial value: 05/A Setting range:

Print darkness: 01 to 10

The lightest is 01 and the darkest is 10.
The value less than that for PRINT
DARKNESS 1 cannot be set.

Darkness range: A to B

A is lighter and B is darker.

Button name and button pressing	Screen and printer operation
Print/Select	Switches the print darkness and the darkness range.
Media feed/Enter	The cursor position indicates the print darkness. (digit) • The cursor moves to the darkness range (alphabetical). The cursor position indicates the darkness range. (alphabetical) • Changes to the PRINT OFFSET screen (page 19)
Print/Select + Media feed/Enter	The cursor position indicates the print darkness. (digit) • Changes to the PRINT DARKNESS 1 screen. The cursor position indicates the darkness range. (alphabetical) • The cursor moves to PRINT DARKNESS (digit).
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Changes to the PRINT SETTINGS screen (page 17).

4-2-1-5 PRINT OFFSET

PRINT SETTINGS
PRINT OFFSET
V:+0000 H:+000

PRINT SETTINGS
PRINT OFFSET
V:+0000 H:+000

PRINT SETTINGS
PRINT OFFSET
V:+0000 H: 000

PRINT SETTINGS
PRINT OFFSET
V:+0000 H:+000

Set the print offset.

Initial value: V:+0000, H:+000 Setting range:

- V: Set the print position by setting how many dots are apart from the print reference point vertically, prefixed with "+" or "-" to indicate the directions to shift.
 - + Backward against the feed direction
 - Forward against the feed direction
- H: Set the print position by setting how many dots are apart from the print reference point horizontally, prefixed with "+" or "-" to indicate the directions to shift.
 - + Left from the printer front side
 - Right from the printer front side

	V offset	H offset
Thousands digit	"0" to "1"	_
Hundreds digit	"0" to "1"	"0" to "4"
Tens digit	"0" to "1"	"0" to "9"
Digit	"0" to "1"	"0" to "9"

Button name and button pressing	Screen and printer operation
Print/Select	Switches the sign and digit for print
Fillivoelect	offset.
	Cursor positiondigit for H
	Changes to the BASIC
Media feed/Enter	SETTINGS screen (page 16)
Wedia leed/Efflet	Cursor positionOther than digit
	for H
	Selects the sign or digit.
	Cursor positionsign for V
	Changes to PRINT
Print/Select +	DARKNESS screen (page 18)
Media feed/Enter	Cursor positionother than sign
	for V
	Moves the cursor.
Print/Select +	
Media feed/Enter	Changes to the PRINT SETTINGS
+ Press for 3 sec. or	screen (page 17).
more.	

[Example for setting the print offset]

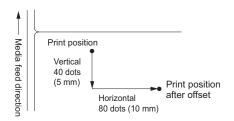
PRINT SETTINGS
PRINT OFFSET
V:+0000 H:+000

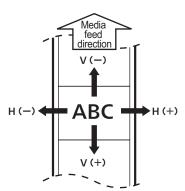
From the print reference point

- +40 dots (5 mm) vertically (V)
- +80 dots (10 mm) horizontally (H)

A setting example for separate points is shown below.

PRINT SETTINGS
PRINT OFFSET
V:+0040 H:+080

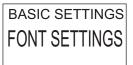




4-2-2. FONT SETTINGS

Select FONT SETTINGS.

When one second has passed after the screen appears, the message shown below scrolls on the lower part of the screen.



Message: Configure Font Settings.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to OP SETTINGS
	screen.
Media feed/Enter	Changes to the ZERO SLASH
	screen.
Print/Select +	Changes to the BASIC SETTINGS
Media feed/Enter	screen (page 16)

4-2-2-1 ZERO SLASH

FONT SETTINGS ZERO SLASH Set the zero slash.

ENABLE DISABLE

Default: ENABLE

ENABLE: Print "0" with slash.

DISABLE: Print "0" without slash.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	Changes to the CHARACTER PITCH screen.
Print/Select +	Changes to the FONT SETTINGS
Media feed/Enter	screen.
Print/Select +	
Media feed/Enter	Changes to the FONT SETTINGS
+ Press for 3 sec. or	screen.
more.	

4-2-2-2 CHARACTER PITCH

FONT SETTINGS
CHARACTER PITCH
ENABLE DISABLE

Set the character pitch (set whether to print based on width of each character or fixed character width).

Default: ENABLE

ENABLE: Print with character

pitch.

DISABLE: Print with fixed character

width.

Usable fonts: XS, XM, XB, XL

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	Changes to the FONT SETTINGS
iviedia ieed/Entei	screen.
Print/Select +	Changes to the ZERO SLASH
Media feed/Enter	screen.
Print/Select +	
Media feed/Enter	Changes to the FONT SETTINGS
+ Press for 3 sec. or	screen.
more.	

4-2-3. OP SETTINGS

Select OP SETTINGS.

When one second has passed after the screen appears, the message shown below scrolls on the lower part of the screen.



Message: Configure Operation Settings.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to the PRINT SETTINGS
	screen (page 17).
Media feed/Enter	Changes to the OPERATION
	MODE screen (page 21).
Print/Select +	Changes to the BASIC SETTINGS
Media feed/Enter	screen (page 16)

4-2-3-1 OPERATION MODE

OP SETTINGS
OPERATION MODE
TEAR OFF
CONTINUOUS

Sets the operation mode.

Default: TEAR OFF:

After printing, the label is fed to the cutter position.

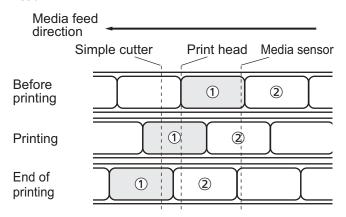
Button name and button pressing	Screen and printer operation
Print/Select	Selects "CONTINUOUS" or "TEAR OFF."
Media feed/Enter	Changes to the SENSOR TYPE screen.
Print/Select +	Changes to OP SETTINGS screen
Media feed/Enter	(page 20).
Print/Select +	
Media feed/Enter	Changes to OP SETTINGS screen
+ Press for 3 sec. or	(page 20).
more.	

■ Continuous Print and Tear-Off

This printer has two operation modes, continuous print and tear-off.

Continuous Print Operation Mode

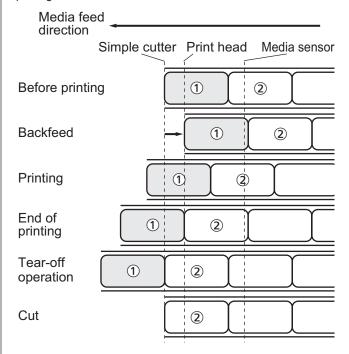
The specified number of sheets will be continuously printed. After printing the specified number of sheets or printing a single sheet, the next print start position is placed at the print head.



Tear-Off Operation Mode

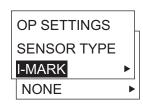
After printing the specified number of sheets continuously, the roll is fed to the cutter position automatically.

In this mode, the roll is easily cut manually after printing. For the next printing, the roll is fed back to the print head and printing will start.



• The figure above does not represent actual labels.

4-2-3-2 SENSOR TYPE



Sets the sensor type.

Default: I-MARK

I-MARK: Detects the I-mark

(black mark on the rear

of the label).

NONE: Not using the media

pitch sensor

Button name and button pressing	Screen and printer operation
Print/Select	Selects "I-MARK" or "NONE."
Media feed/Enter	Changes to the ENERGY SAVING
Media leed/Effice	screen (page 22).
Print/Select +	Changes to the OPERATION
Media feed/Enter	MODE screen.
Print/Select +	
Media feed/Enter	Changes to OP SETTINGS screen
+ Press for 3 sec. or	(page 20).
more.	

4-2-3-3 ENERGY SAVING

OP SETTINGS
ENERGY SAVING
005 sec

Set the time to make the transition to the energy saving mode.

Initial value: 005

Setting range: 000, 005 to 999

- If "000" is set, the printer does not enter the energy saving mode.
- To increase the life of the battery, setting the lower value is recommended.

Button name and button pressing	Screen and printer operation
Print/Select	Set the time for the energy saving
FillioSelect	mode.
	Cursor positiondigit
	Changes to the AUTO
Media feed/Enter	POWER-OFF screen.
	Cursor positionOther than digit
	Moves the cursor
	Cursor positionHundreds digit
	Changes to the SENSOR
Print/Select +	TYPE screen (page 21).
Media feed/Enter	Cursor positionOther than
	hundreds digit
	Moves the cursor
Print/Select +	
Media feed/Enter	Changes to OP SETTINGS screen
+ Press for 3 sec. or	(page 20).
more.	

■ Conditions Not to Transit to the Energy Saving Mode

- Print cancel screen, default mode, test print mode, maintenance mode, and download mode.
- · USB is selected for INTERFACE SETTING.
- The temperature in the printer is lower than -2°C.
- Receiving data (print data that have not been printed remain in the printer)
- The AC adapter is not connected and the printer is in low-battery status (Error 41).
- · No battery is installed (Error 42).
- The temperature in the printer is outside the acceptable range (Error 45).

■ Conditions to Return from the Energy Saving Mode.

- When the cover is closed and opened.
- · When receiving data
- · When a button is pressed
 - If a button is pressed in energy saving mode, the printer does not return from the energy saving mode. First return to normal mode then press a button again.

4-2-3-4 AUTO POWER-OFF

OP SETTINGS AUTO POWER-OFF **0**00 min Set the time to turn the printer off when the printer has not been operated within the specified period.

Initial value: 000

Setting range: 000 to 999

- If "000" is set, the printer does not enter the auto power-off mode.
- The printer does not enter auto power-off mode in print cancel screen, default mode, test print mode, maintenance mode, or download mode.

Button name and button pressing	Screen and printer operation
Print/Select	Set the time to enter the auto
Fillivoelect	power-off mode.
	Cursor positiondigit
	Changes to OP SETTINGS
Media feed/Enter	screen (page 20).
	Cursor positionOther than digit
	Moves the cursor
	Cursor positionHundreds digit
	Changes to the ENERGY
Print/Select +	SAVING screen (page 22).
Media feed/Enter	Cursor positionOther than
	hundreds digit
	Moves the cursor
Print/Select+	
Media feed/Enter	Changes to OP SETTINGS screen
+ Press for 3 sec. or	(page 20).
more.	

4-3. I/F SETTINGS

Select I/F SETTINGS.

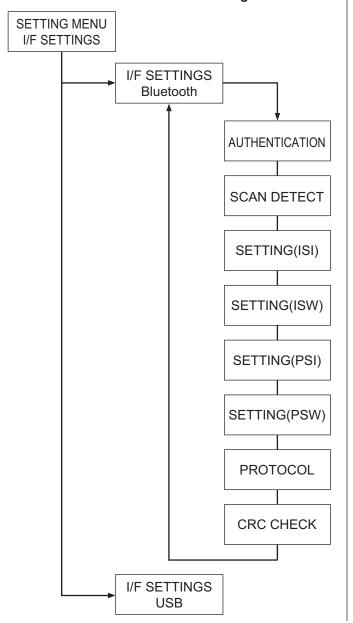
When one second has passed after the screen appears, the message shown below scrolls on the lower part of the screen.

SETTING MENU
I/F SETTINGS

Message: Configure Interface Setting.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to the ADVANCE SETTINGS screen (page 27).
Media feed/Enter	Changes to the I/F SETTINGS screen.
Print/Select + Media feed/Enter	Changes to the OFFLINE screen (page 12).

Screen Transition for Interface Settings



4-3-1. INTERFACE SELECT Screen

I/F SETTINGS
INTERFACE SELECT
Bluetooth
USB

Set the interface.

Default: Bluetooth

Bluetooth: Makes the Bluetooth connection.

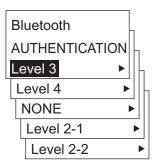
USB: Makes the USB connection.

Button name and button pressing	Screen and printer operation
Print/Select	Select "Bluetooth" or "USB."
	For "Bluetooth"
	Changes to the
	AUTHENTICATION screen
Media feed/Enter	(page 24).
	For "USB"
	Changes to the I/F SETTINGS
	screen.
Print/Select +	Changes to the I/F SETTINGS
Media feed/Enter	screen.
Print/Select +	
Media feed/Enter	Changes to the I/F SETTINGS
+ Press for 3 sec. or	screen.
more.	

< Bluetooth >

This is the setting screen activated when "Bluetooth" is selected on the 4-3-1 INTERFACE SELECT Screen.

4-3-1-1 Authentication Level



Set the authentication level.

Default: Level 3

NONE: No authentication

Level 2-1: PIN code authentication, service level, and no encryption

Level 2-2: PIN code authentication, service level, and encryption

Level 3: PIN code authentication, link level, and no

encryption

Level 4: Supporting secure simple pairing, service level,

and encryption

(Communication with the device that does not

support secure simple pairing.)

Button name and button pressing	Screen and printer operation
Print/Select	Select "Level 3," "Level 4," "NONE,"
	"Level 2-1," or "Level 2-2."
Media feed/Enter	Changes to the SCAN DETECT
	screen.
Print/Select +	Changed to the INTERFACE
Media feed/Enter	SELECT screen.
Print/Select +	
Media feed/Enter	Changes to the I/F SETTINGS
+ Press for 3 sec. or	screen (page 23).
more.	

4-3-1-2 SCAN DETECT

Bluetooth
SCAN DETECT
ENABLE DISABLE

Set the communication protocol.

Default: ENABLE

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	When "ENABLE" is selected • Changes to the communication parameter ISI. When "DISABLE" is selected • Changes to the communication parameter PSI (page 25).
Print/Select + Media feed/Enter	Changed to the INTERFACE SELECT screen (page 23).
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Changes to the I/F SETTINGS screen (page 23).

4-3-1-3 PARAMETER SETTING (ISI)

Bluetooth
SETTING(ISI)

Set the communication parameter ISI. Hexadecimal display. Displayed when SCAN DETECT is set to "ENABLE."

Initial value: 0800 Setting range: 0012 to 1000

- The setting value is enabled when the power is supplied on the next time.
- If a value smaller than ISW is set, an error sound is output and the value is not set.
- The setting is even only.
 The last digit must be 0, 2, 4, 6, 8, A, C, or E.

Button name and button pressing	Screen and printer operation
Print/Select	Select the digit.
Media feed/Enter	Cursor positionthe last digit
Print/Select + Media feed/Enter	Cursor positionthe most significant digit
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Changes to the I/F SETTINGS screen (page 23).

4-3-1-4 PARAMETER SETTING (ISW)

Bluetooth
SETTING(ISW)
0012

Set the communication parameter ISW.

Hexadecimal display.

Displayed when SCAN DETECT is set to "ENABLE."

Initial value: 0012

Setting range: 0011 to 1000

- The setting value is enabled when the power is supplied on the next time.
- If a value larger than ISI is set, an error sound is output and the value cannot be set.

Button name and button pressing	Screen and printer operation
Print/Select	Select the digit.
Media feed/Enter	Cursor positionthe last digit
Print/Select + Media feed/Enter	Cursor positionthe most significant digit • Changes to the ISI screen (page 24). Cursor positionother than the most significant digit • Moves the cursor
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Changes to the I/F SETTINGS screen (page 23).

4-3-1-5 PARAMETER SETTING (PSI)

Bluetooth
SETTING(PSI)
0090

Set the communication parameter PSI.

Hexadecimal display.

Initial value: 0090

Setting range: 0012 to 1000

- The setting value is enabled when the power is supplied on the next time.
- If a value smaller than PSW is set, an error sound is output and the value cannot be set.
- The setting is even only.
 The last digit must be 0, 2, 4, 6, 8, A, C, or E.

Button name and	Screen and printer operation
button pressing	
Print/Select	Select the digit.
	Cursor positionthe last digit
	Changes to the PSW screen
Media feed/Enter	(page 26).
Media leed/Effici	Cursor positionother than the
	last digit
	Moves the cursor
	Cursor positionthe most
	significant digit
	If the scan detect is disabled,
	changes to the SCAN
Print/Select +	DETECT screen (page 24).
Media feed/Enter	If the scan detect is enabled,
	changes to the ISW screen.
	Cursor positionother than the most
	significant digit
	Moves the cursor
Print/Select +	
Media feed/Enter	Changes to the I/F SETTINGS
+ Press for 3 sec. or	screen (page 23).
more.	

4-3-1-6 PARAMETER SETTING (PSW)

Bluetooth
SETTING(PSW)
0012

Set the communication parameter

Hexadecimal display.

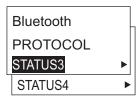
Initial value: 0012

Setting range: 0011 to 1000

- The setting value is enabled when the power is supplied on the next time.
- If a value larger than PSI is set, an error sound is output and the value cannot be set.

Button name and	Screen and printer operation
button pressing	
Print/Select	Select the digit.
	Cursor positionthe last digit
	Changes to the PROTOCOL
Media feed/Enter	screen.
	Cursor positionother than the
	last digit
	Moves the cursor
	Cursor positionthe most
	significant digit
Drint/Coloot	Changes to the PSI screen
Print/Select + Media feed/Enter	(page 25).
	Cursor positionother than the most
	significant digit
	Moves the cursor
Print/Select +	
Media feed/Enter	Changes to the I/F SETTINGS
+ Press for 3 sec. or	screen (page 23).
more.	

4-3-1-7 PROTOCOL



Set the communication protocol.

Default: STATUS 3

• The setting value is enabled when the power is supplied on the next time.

Button name and button pressing	Screen and printer operation
Print/Select	Select "STATUS3" or "STATUS 4."
Media feed/Enter	Changes to the CRC CHECK
	screen.
Print/Select +	Changes to the PSW screen.
Media feed/Enter	Changes to the FSW screen.
Print/Select +	
Media feed/Enter	Changes to the I/F SETTINGS
+ Press for 3 sec. or	screen (page 23).
more.	

4-3-1-8 CRC CHECK

Bluetooth
CRC CHECK

ENABLE DISABLE

Set the CRC check function.

Default: DISABLE

• The setting value is enabled when the power is supplied on the next time.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	Changes to the I/F SETTINGS
	screen (page 23).
Print/Select +	Changes to the PROTOCOL
Media feed/Enter	screen.
Print/Select +	
Media feed/Enter	Changes to the I/F SETTINGS
+ Press for 3 sec. or	screen (page 23).
more.	

4-4. ADVANCE SETTINGS

Select ADVANCE SETTINGS.

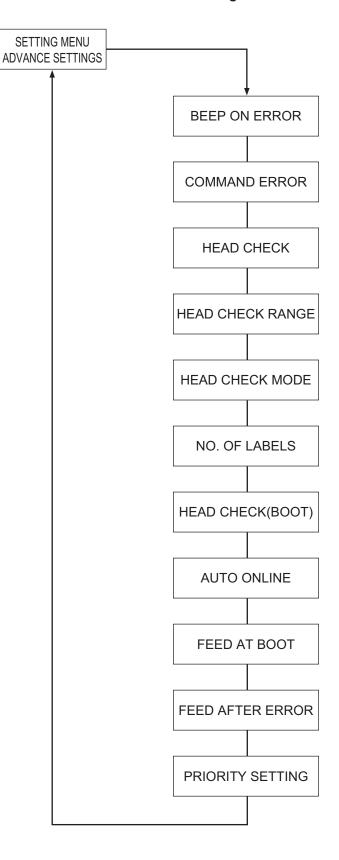
When one second has passed after the screen appears, the message shown below scrolls on the lower part of the screen.

SETTING MENU ADVANCE SETTINGS

Message: Configure Advanced Functions.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to the HEX DUMP
	MODE screen (page 31).
Media feed/Enter	Changes to the ADVANCE
	SETTINGS screen.
Print/Select +	Changes to the OFFLINE screen
Media feed/Enter	(page 12).

Screen Transition for Advance Setting



4-4-1. BEEP ON ERROR

ADVANCE SETTINGS
BEEP ON ERROR
ENABLE DISABLE

Select whether it is to beep or not when a command error is generated.

Default: DISABLE
ENABLE: It beeps when a command error is generated.

DISABLE:It does not beep when a command error is

generated.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Madia faad/Fahaa	Changes to the COMMAND
Media feed/Enter	ERROR screen.
Print/Select +	Changes to the ADVANCE
Media feed/Enter	SETTINGS screen (page 27).
Print/Select +	
Media feed/Enter	Changes to the ADVANCE
+ Press for 3 sec. or	SETTINGS screen (page 27).
more.	

4-4-2. COMMAND ERROR

ADVANCE SETTINGS
COMMAND ERROR
ENABLE DISABLE

Set whether or not to display the command error.

Default: DISABLE

ENABLE: Display the COMMAND

ERROR screen when a command error is generated.

DISABLE: Does not display
the COMMAND
ERROR screen when
a command error is

generated.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	Changes to the HEAD CHECK
	screen.
Print/Select +	Changes to the BEEP ON ERROR
Media feed/Enter	screen.
Print/Select +	
Media feed/Enter	Changes to the ADVANCE
+ Press for 3 sec. or	SETTINGS screen (page 27).
more.	

4-4-3. HEAD CHECK

ADVANCE SETTINGS
HEAD CHECK
ENABLE DISABLE

Set whether to perform head check

or not.

Default: DISABLE

ENABLE: Enables the head check

function.

DISABLE: Disables the head check

function.

Head Check Function

Head check is a reference for checking filament disconnection of the print head automatically. If an error occurs, printing stops. Head check is a reference for checking filament disconnection of the print head. This function does not guarantee barcode readability. Check barcode readability regularly. (Failure to print does not necessarily correspond to functioning of the head check.) Check the label printed after head error is generated by scanning the printed barcode.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	When "ENABLE" is selected • Changes to the HEAD CHECK RANGE screen. When "DISABLE" is selected • Changes to the HEAD CHECK (BOOT) screen (page 29).
Print/Select + Media feed/Enter	Changes to the COMMAND ERROR screen.
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Changes to the ADVANCE SETTINGS screen (page 27).

4-4-4. HEAD CHECK RANGE

ADVANCE SETTINGS
HEAD CHECK RANGE
BARCODE
STANDARD

Set the range for head check.

Default: BARCODE

STANDARD: Check whole the printable range.

BARCODE: Check the barcode only.

Button name and button pressing	Screen and printer operation
Print/Select	Select "STANDARD" or "BARCODE."
Media feed/Enter	Changes to the HEAD CHECK MODE screen (page 29).
Print/Select + Media feed/Enter	Changes to the HEAD CHECK screen.
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Changes to the ADVANCE SETTINGS screen (page 27).

4-4-5. HEAD CHECK MODE

ADVANCE SETTINGS
HEAD CHECK MODE
ALL
NO. OF LABELS
START-END

Set the mode for head check.

Default: ALL

ALL: Check the labels one by one.

NO. OF LABELS: Check the labels for each specified

number of label.

START-END: Check the starting and ending points of

printing.

Button name and button pressing	Screen and printer operation
Print/Select	Select "ALL," "NO. OF LABELS," or "START-END."
Media feed/Enter	When "ALL" or "START-END" is selected • Changes to the HEAD CHECK (BOOT) screen. When "NO. OF LABELS" is selected • Changes to the NO. OF LABELS screen.
Print/Select +	Changes to the HEAD CHECK
Media feed/Enter	RANGE screen (page 28).
Print/Select +	
Media feed/Enter	Changes to the ADVANCE
+ Press for 3 sec. or	SETTINGS screen (page 27).
more.	SETTINGS Screen (page 27).

4-4-6. NO. OF LABELS

ADVANCE SETTINGS
NO. OF LABELS
000001

Set the interval to perform head check.

Initial value: 000001

Setting range: 000001 to 999999

ADVANCE SETTINGS
NO. OF LABELS
000001

Button name and button pressing	Screen and printer operation
Print/Select	Specify the interval.
Media feed/Enter	Cursor positiondigit • Changes to the HEAD CHECK (BOOT) screen. Cursor positionOther than digit • Moves the cursor
Print/Select + Media feed/Enter	Cursor positionhundred- thousands digit Changes to the HEAD CHECK MODE screen. Cursor positionother than hundred-thousands digit Moves the cursor
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Changes to the ADVANCE SETTINGS screen (page 27).

4-4-7. HEAD CHECK (BOOT)

ADVANCE SETTINGS
HEAD CHECK(BOOT)
ENABLE DISABLE

Set whether the head check is to be performed upon booting of the printer.

Default: DISABLE

ENABLE: Enables the head check function on booting.

DISABLE: Disables the head check function on booting.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	Changes to AUTO ONLINE screen (page 30).
Print/Select +	Changes to the HEAD CHECK
Media feed/Enter	screen (page 28).
Print/Select +	
Media feed/Enter	Changes to the ADVANCE
+ Press for 3 sec. or	SETTINGS screen (page 27).
more.	

4-4-8. AUTO ONLINE

ADVANCE SETTINGS
AUTO ONLINE
ENABLE DISABLE

Set the status for when the printer is booted.

Default: ENABLE

ENABLE: When the printer is

booted, it enters the

online mode.

DISABLE: When the printer is

booted, it enters the

offline mode.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	Changes to the FEED AT BOOT
	screen.
Print/Select +	Changes to the HEAD CHECK
Media feed/Enter	(BOOT) screen (page 29).
Print/Select +	
Media feed/Enter	Changes to the ADVANCE
+ Press for 3 sec. or	SETTINGS screen (page 27).
more.	

4-4-9. FEED AT BOOT

ADVANCE SETTINGS
FEED AT BOOT
ENABLE DISABLE

Set whether the roll is fed by one sheet when the printer is booted.

Default: DISABLE

ENABLE: The label roll is fed

when the printer is

booted.

DISABLE: The label roll is not

fed when the printer is

booted.

Even if the FEED AT BOOT is set to "DISABLE," the label roll will be fed by one sheet upon turning the power on by pressing the Power button, if "FEED AFTER ERROR" is set to ENABLE.

* When the AC adapter is connected, FEED AT BOOT will not be performed.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	Changes to the FEED AFTER ERROR screen.
Print/Select +	Changes to the AUTO ONLINE
Media feed/Enter	screen.
Print/Select +	
Media feed/Enter	Changes to the ADVANCE
+ Press for 3 sec. or	SETTINGS screen (page 27).
more.	

4-4-10. FEED AFTER ERROR

ADVANCE SETTINGS
FEED AFTER ERROR
ENABLE DISABLE

Set whether the label roll is to be fed by one sheet after an error is generated.

Default: ENABLE

ENABLE: Feed the label roll after an error is generated.

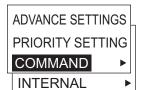
DISABLE:Does not feed the label roll after an error is

generated.

 Timing to feed the label roll
 When the printer is in online mode after the error is released or the printer is turned on.

Button name and button pressing	Screen and printer operation
Print/Select	Selects "ENABLE" or "DISABLE."
Media feed/Enter	Changes to the PRIORITY
Media leed/Effici	SETTING screen.
Print/Select +	Changes to the FEED AT BOOT
Media feed/Enter	screen.
Print/Select +	
Media feed/Enter	Changes to the ADVANCE
+ Press for 3 sec. or	SETTINGS screen (page 27).
more.	

4-4-11. PRIORITY SETTING



Set which takes priority, printer setting or command setting.

Default: COMMAND

COMMAND: The printer settings according to the received data take priority.

INTERNAL: The printer's internal settings take priority.

Items for priority setting are print darkness, darkness range, print speed, print offset, and sensor type.

Button name and button pressing	Screen and printer operation
Print/Select	Select "COMMAND" or "INTERNAL."
Media feed/Enter	Changes to the ADVANCE
iviedia leed/Effici	SETTINGS screen (page 27).
Print/Select +	Changes to the FEED AFTER
Media feed/Enter	ERROR screen.
Print/Select +	
Media feed/Enter	Changes to the ADVANCE
+ Press for 3 sec. or	SETTINGS screen (page 27).
more.	

4-5. HEX DUMP MODE

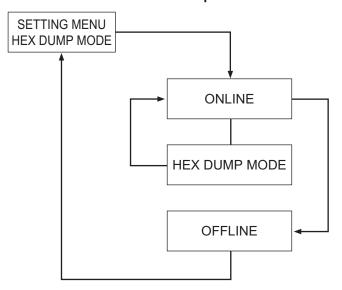
Select HEX DUMP MODE.



Message: Enter Hex Dump Mode.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to the DEFAULT MODE
	screen (page 32).
Media feed/Enter	Changes to the HEX DUMP MODE
	screen.
Print/Select +	Changes to the OFFLINE screen
Media feed/Enter	(page 12).

Screen Transition for HEX Dump



4-5-1. HEX DUMP ONLINE

"HEX" is displayed at the upper left of the display. ONLINE screen



Screen for waiting for data reception.

PRINTING screen



Screen for printing a label.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to HEX dump offline.

4-5-2. HEX DUMP OFFLINE

"HEX" is displayed at the upper left of the display. OFFLINE screen



Screen for waiting for label data.

PAUSE screen



Screen for pausing label printing.

Button name and button pressing	Screen and printer operation
Print/Select	Changes to HEX dump online.
Media feed/Enter	Feed 1 sheet.
Print/Select +	Changes to the CANCEL PRINT
Media feed/Enter	JOB screen (page 12)
Print/Select + Media feed/Enter + Press for 3 sec. or more.	Data exist.
	 Changes to setting mode.
	No data exists
	Changes to the CANCEL
more.	PRINT JOB screen (page 12)

4-6. DEFAULT MODE

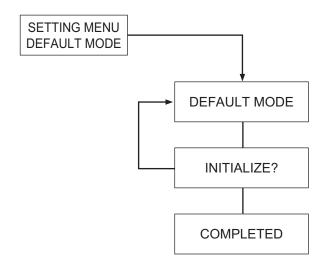
Select DEFAULT MODE.

SETTING MENU DEFAULT MODE

Message: Default Printer Settings.

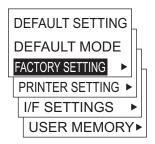
Button name and button pressing	Screen and printer operation
Print/Select	Changes to the Back to ONLINE
	MODE screen (page 16).
Media feed/Enter	Changes to the DEFAULT MODE
	screen.
Print/Select +	Changes to the OFFLINE screen
Media feed/Enter	(page 12).

Screen Transition for Default Mode



After initializing, turn the power off, then back on.

4-6-1. Selection of Items to be Initialized



Select the items to be initialized.

FACTORY SETTING FACTORY SETTING: Set to the factory settings. PRINTER SETTING: Initialize the basic settings I/F SETTINGS: Initialize the interface settings. **USER MEMORY:** Initialize the user memory.

Button name and button pressing	Screen and printer operation
Print/Select	Select "FACTORY SETTING," "PRINTER SETTING," "I/F SETTINGS," or "USER MEMORY."
Media feed/Enter	Changes to the INITIALIZE? screen.
Print/Select + Media feed/Enter	Changes to the DEFAULT MODE screen.

4-6-2. INITIALIZE?

FACTORY SETTING INITIALIZE? YES NO

Confirm that initializing will be performed.

PRINTER SETTING **INITIALIZE?**

Default: NO

YES NO

YES: Initialize the selected

item.

NO: Do not initialize.

I/F SETTINGS **INITIALIZE?** YES NO

USER MEMORY INITIALIZE?

YES NO

Button name and button pressing	Screen and printer operation
Print/Select	Select "YES" or "NO."
Media feed/Enter	When "YES" is selected Initializes the item and changes to the COMPLETED screen (page 33). When "NO" is selected Changes to the DEFAULT MODE screen.
Print/Select + Media feed/Enter	Changes to the DEFAULT

4-6-3. COMPLETED

FACTORY SETTING COMPLETED PLEASE POWER OFF

This is the screen displayed when initialization is completed.

PRINTER SETTING COMPLETED

Turn the power off.

PLEASE POWER OFF

The display remains until the power is turned off.

No button operation is accepted.

I/F SETTINGS **COMPLETED**

PLEASE POWER OFF

USER MEMOY COMPLETED PLEASE POWER OFF

2. Test Print Mode

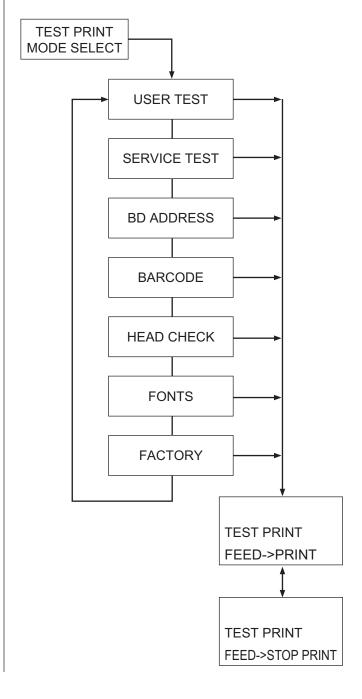
Turning the power on while the Media feed/Enter button is held pressed activates test print mode.

The seven items below can be printed in test print mode.

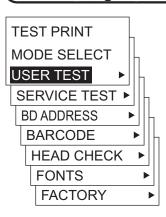
- 1. User test
- 2. Service test
- 3. BD address
- 4. Barcode list
- 5. Head check
- 6. Font list
- 7. Factory test

When the Media feed/Enter button is pressed on each screen, the display changes to the print start screen.

Screen Transition for Test Print



1. Selecting an Item for Test Printing



Select an item for test printing.

Default: USER TEST

USER TEST: For checking the setting data for this

printer.

 ${\sf SERVICE\ TEST:\ Test\ print\ performed\ by\ service\ personnel}.$

 $\ensuremath{\mathsf{BD}}\xspace$ ADDRESS: For printing the BD address in QR code

and Code39.

BARCODE: For printing the barcodes permanently

stored in this printer.

HEAD CHECK: For printing to check the printer head

status.

FONTS: For printing the fonts permanently stored in

this printer.

FACTORY: Test print performed by service personnel.

Button name and button pressing	Screen and printer operation
Print/Select	Select an item for test printing.
Media feed/Enter	Changes to the test print start
	screen.

1-1. Test Print Start

TEST PRINT FEED->PRINT Screen for starting test printing.

Button name and button pressing	Screen and printer operation
Media feed/Enter	Start the test printing.
Print/Select +	Changes to the MODE SELECT
Media feed/Enter	screen.

1-2. Test Print Printing

TEST PRINT
FEED->STOP PRINT

Screen for printing the test printing.

Button name and button pressing	Screen and printer operation
Media feed/Enter	Stop test printing

3. List of Initial Value

	Setting Items	Initial Value
ΑI	DJUSTMENT MODE	
	PITCH POSITION	+0.00mm
	OFFSET POSITION	+0.00mm
	PRINT DARKNESS	50
	BUZZER	ENABLE
	BRIGHTNESS	2
ВА	ASIC SETTINGS	
	PRINT SETTINGS	
	ADJUST SETTINGS	PITCH
	PRINT SPEED	4
	PRINT DARKNESS 1, 2	5A
	PRINT OFFSET	V:+0000 H:+000
	FONT SETTINGS	
	ZERO SLASH	ENABLE
	CHARACTER PITCH	ENABLE
	OP SETTINGS	
	OPERATION MODE	TEAR OFF
	SENSOR TYPE	I-MARK
	ENERGY SAVING	005
	AUTO POWER-OFF	000
I/F	SETTINGS	
	INTERFACE SELECT	Bluetooth
	USB	_
	Bluetooth	
	AUTHENTICATION	Level 3
	SCAN DETECT	ENABLE
	SETTING(ISI)	0800
	SETTING(ISW)	0012
	SETTING(PSI)	0090
	SETTING(PSW)	0012
	PROTOCOL	STATUS3
	CRC CHECK	DISABLE
	CRC CHECK	DISABLE

	Setting Items	Initial Value
ΑI	OVANCE SETTINGS	
	BEEP ON ERROR	DISABLE
	COMMAND ERROR	DISABLE
	HEAD CHECK	DISABLE
	HEAD CHECK RANGE	BARCODE
	HEAD CHECK MODE	ALL
	NO. OF LABELS	000001
	HEAD CHECK (BOOT)	DISABLE
	AUTO ONLINE	ENABLE
	FEED AT BOOT	DISABLE
	FEED AFTER ERROR	ENABLE
	PRIORITY SETTING	COMMAND
DEFAULT MODE		
	DEFAULT MODE	FACTORY SETTING
	INITIALIZE?	NO

3 Troubleshooting

When an error message appears on the display, there is error in the printer. Check the error number shown on the display.

Causes and countermeasures depend on the error number and warning message. To release error status, check the type of error and warning message.



Normally in energy saving mode, the Status LED flashes in green with long intervals.

When an error occurs and the printer changes in energy saving mode, the status LED flashes in red with long intervals.

1. Error List

Error No.	Description	
	Screen	ERROR01 MACHINE ERROR Contact customer service.
	Message	Contact customer service.
1	Releasing the error	Turn the power off.
'	Type of error	Machine error
	LED	Light in red
	Buzzer	Long sound, one time
	Cause	① Board defective
	Countermeasure	① Contact the SATO reseller or technical support center.
	Screen	ERROR02 ROM ERROR Contact customer service.
	Message	Contact customer service.
	Releasing the error	Turn the power off.
	Type of error	ROM Error
2	LED	Light in red
_	Buzzer	Long sound, one time
	Cause	 Cannot access the Flash ROM. Exceeds the time for writing. Cannot access the EEPROM.
	Countermeasure	① ② ③ Contact the SATO reseller or technical support center.

Error No.	Description	
	Screen	ERROR04 connection error Recycle power.
	Message	Recycle power.
	Releasing the error	Turn the power off.
4	Type of error	Connection error
	LED	Light in red
	Buzzer	Long sound, one time
	Cause	An error is generated in printer communication status.
	Countermeasure	① Restart the printer.
	Screen	ERROR07 COVER OPEN Close cover.
	Message	Close cover.
	Releasing the error	Open and close the cover.
7	Type of error	Cover open
,	LED	Flash in red.
	Buzzer	Short sound, 3 times
	Cause	The cover is not locked. Cover detection sensor error
	Countermeasure	Lock the cover. Contact the SATO reseller or technical support center.

Error No.	Description	
	Screen	ERROR08 SET MEDIA Load paper.
	Message	Load paper.
	Releasing the error	Open and close the cover.
	Type of error	Paper end error
8	LED	Flash in red.
	Buzzer	Short sound, 3 times
	Cause	 The media is not loaded. The media is not loaded correctly. Pitch sensor error
	Countermeasure	Description: D
	Screen	ERROR10 CORRECT MEDIA SETTING Check and load paper properly.
	Message	Check and load paper properly.
	Releasing the error	Open and close the cover.
	Type of error	Sensor error
	LED	Flash in red.
10	Buzzer	Short sound, 3 times
	Cause	 Pitch sensor level does not match. Setting for the sensor type does not match. Paper skewing
	Countermeasure	Contact the SATO reseller or technical support center. Use the correct sensor type. Clean and adjust the media feeding route.

Error No.	Description	
	Screen	ERROR11 HEAD ERROR Contact customer service.
	Message	Contact customer service.
	Releasing the error	Temporarily release the head check. Or turn the power off.
11	Type of error	Head error
	LED	Light in red
	Buzzer	Long sound, one time
	Cause	① The filament of the print head is open.
	Countermeasure	① Contact the SATO reseller or technical support center.
	Screen	ERROR12 MEMORY R/W ERROR Contact customer service.
	Message	Contact customer service.
12	Releasing the error	Turn the power off.
12	Type of error	Error in writing to memory.
	LED	Light in red
	Buzzer	Long sound, one time
	Cause	① Writing to the memory fails.
	Countermeasure	① Contact the SATO reseller or technical support center.

Error No.	Description	
	Screen	ERROR13 MEMORY FULL Free up space.
	Message	Free up space.
13	Releasing the error	Turn the power off.
	Type of error	Memory full
	LED	Light in red
	Buzzer	Short sound, 3 times
	Cause	① No free space in memory.
	Countermeasure	① Delete unwanted data.
	Screen	ERROR14 DOWNLOAD DATA ERROR
	Message	DOWNLOAD DATA ERROR
	Releasing the error	Press the Media feed/Enter button.
	Type of error	Download data error.
14	LED	Light in red
	Buzzer	Long sound, one time
	Cause	Received incorrect download data. No space for download.
	Countermeasure	Check the downloaded data. Check the download data volume.

Error No.	Description	
	Screen	ERROR21 KANJI DATA ERROR Contact customer service.
	Message	Contact customer service.
21	Releasing the error	Turn the power off.
21	Type of error	Kanji data error
	LED	Light in red
	Buzzer	Long sound, one time
	Cause	① Read incorrect kanji data.
	Countermeasure	① Contact the SATO reseller or technical support center.
	Screen	ERROR26 HEAD OVERHEAT Wait till printhead cools down.
	Message	Wait till print head cools down.
	Releasing the error	Power down and let it cool.
26	Type of error	Overheat error
	LED	Flash in red.
	Buzzer	Long sound, one time
	Cause	① The printer's temperature is outside the specified range.
	Countermeasure	① Power down and let it cool.

Error No.	Description	
	Screen	ERROR27 Caaa: <bb>:cc Check print data.</bb>
	Message	Check print data.
	Releasing the error	Pres the Print/Select button.
	Type of error	Command error
27	LED	Flash in red.
	Buzzer	Short sound, 3 times
	Cause	① Command error is detected.
	Countermeasure	① Check the print data.
	Notes	On Caaa: Caaa: Error position
	Screen	ERROR35 CRC CHECK ERROR Signature doesn't match.
	Message	Signature doesn't match.
	Releasing the error	Press the Print/Select button for 3 seconds or more. Cancel printing.
35	Type of error	CRC check error
	LED	Flash in red.
	Buzzer	Short sound, 3 times
	Cause	CRC added to the transmitted data (for 1 item) is not correct.
	Countermeasure	① Check the transmitted data and signal conditions.

Error No.	Description	
	Screen	ERROR40 BLUETOOTH ERROR Contact customer service.
	Message	Contact customer service.
40	Releasing the error	Turn the power off.
40	Type of error	Bluetooth module error
	LED	Light in red
	Buzzer	Long sound, one time
	Cause	① Bluetooth module error
	Countermeasure	① Contact the SATO reseller or technical support center.
	Screen	ERROR41 LOW BATTERY Please charge battery.
	Message	Please charge battery.
	Releasing the error	Connect the AC adapter and charge the battery to charge level 1.
	Type of error	Low battery
41	LED	Light in red (Flashing in red while the AC adapter is connected)
	Buzzer	Long sound, one time
	Cause	① The battery is out of charge.
	Countermeasure	Replace the battery. Charge the battery.
	Notes	The power will automatically be turned off after 30 to 40 seconds.

Error No.	Description	
	Screen	ERROR42 NO BATTERY Please put battery.
	Message	Please put battery.
42	Releasing the error	Insert a battery.
42	Type of error	No battery
	LED	Flash in red.
	Buzzer	Short sound, 3 times
	Cause	 A battery is disconnected. A battery is not installed.
	Countermeasure	① ② Insert a battery.
	Screen	ERROR43 CHARGING Wait till charging is complete.
	Message	Wait till charging is complete.
	Releasing the error	Wait until charging is complete.
43	Type of error	During charging
	LED	Flashing in red.
	Buzzer	Short sound, 3 times
	Cause	① The Power button is pressed while charging.
	Countermeasure	① Do not press the Power button while charging.

Error No.	Description	
	Screen	ERROR44 BATTERY ERROR Please replace battery.
	Message	Please replace battery.
44	Releasing the error	None
	Type of error	Battery error
	LED	Light in red
	Buzzer	Long sound, one time
	Cause	Battery error
	Countermeasure	Replace the battery.
	Screen	PRINTER OVERHEAT Contact customer service.
	Message	Contact customer service.
	Releasing the error	Turn the power off.
	Type of error	Printer overheat
45	LED	Light in red
	Buzzer	Long sound, one time
	Cause	The temperature of the printer is outside the specified range.
	Countermeasure	Contact the SATO reseller or technical support center.
	Notes	The power will automatically be turned off after 30 to 40 seconds.

2. List of Warning Icons

The warning icons will be displayed in order of detecting.

No.	Description	
	Screen	ONLINE
	Warning	Head error (area excluding barcode)
	Releasing the error	-
	LED	Light in green
1	Buzzer	_
,	Cause	After detecting the head error, the head error is released and printing continues.
	Countermeasure	① Contact the SATO reseller or technical support center. Replace the print head.
	Screen	ONLINE
	Warning	Command error
2	Releasing the error	If the next item is received or the job canceled, the warning icon will be cleared.
	LED	Light in green
	Buzzer	Short sound, 1 time
	Cause	① Command error is detected.
	Countermeasure	① Check the print data.

No.	Description	
	Screen	ONLINE
	Warning	Receive buffer near full
	Releasing the error	_
3	LED	Flash in green
	Buzzer	_
	Cause	① Free space in the receive buffer is little.
	Countermeasure	① Do not send the next data until printing the data finishes on the printer.

4 Options

1. Battery



Install and charge it.

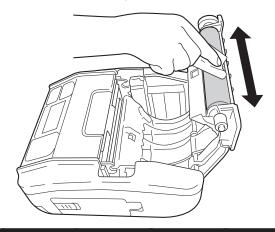
- 2. AC adapter
- 3. 1ch charger (For China)
- 4. 6ch charger (For China)

5 Cleaning the Printer

Be sure to turn the power off, remove the battery, then clean the printer.

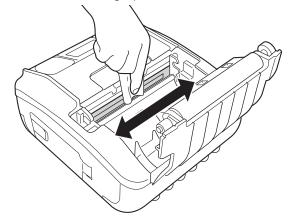
1. Platen Roller

Clean the platen roller softly from side to side using a cotton cloth dabbed with cleaning liquid.*



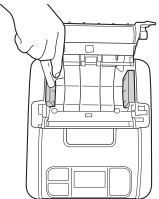
2. Print Head

Clean the platen roller softly from side to side using a cotton cloth dabbed with cleaning liquid.*



3. Label Guide

Clean the label guide softly using a cotton cloth dabbed with cleaning liquid.*



* The cleaning liquid is not included. Contact the SATO reseller or technical support center for purchasing.

6 Basic Specifications

1. Printer

Model name	VP208	
Print Method	Direct thermal method	
Head density (Resolution)	8 dot/mm (203 dpi)	
Effective print area	Length 1000 mm × Width 55 mm	
	4 to 5.6 inches/sec. 100 to 140 mm/sec.	
Print speed	Values may vary with print layout, ambient temperature, or remaining battery level.	
Non-printable Area	Length Upper: 1.5 mm, lower: 1.5 mm (not including liner) Width Left: 1.5 mm, right: 1.5 mm (not including liner)	
Print mode Continuous, tear-off, pitch sensor disabled		
Dimensions/ weight	Width 93 mm×Depth 52 mm (53.5 mm including projecting parts) × Height 105 mm Approximately 345 g (including a battery pack of 105 g, not including media)	
Power Supply	Input voltage: 100 - 240 V AC±10%	
Required conditions	Operating temperature: -5 to 40°C Humidity: 10 to 90%RH (non-condensing) Storage temperature: -20 to 60°C Humidity: 10 to 90% RH (non-condensing)	
Interface	① Bluetooth interface ② USB interface	
Options	Battery AC adapter 1ch charger (For China) 6ch charger (For China)	
Operation	CD : OLED (Horizontal 128 dots × Vertical 64 dots) LED : STATUS (green/red), Charge (green) Button : Power, Print/Select, Media feed/ Enter	

Model name	VP208		
Level adjustment	Print position, stop position, print darkness, brightness		
Media length detection sensor	I-mark sensor		
Barcode	UPC-A/UPC-E, JAN/EAN, CODE39, CODE93, CODE128, GS1-128 (UCC/EAN128), CODABAR (NW-7), ITF, POSTNET		
2D codes	QR code, Micro QR, PDF417, Data matrix (ECC200), GS1 data matrix Maxi code		
	OCR-A 15×22 dots (Alphanumeric characters, codes) OCR-B 20×24 dots (Alphanumeric characters, codes)		
Bitmap Fonts	XU 5×9 dots (Alphanumeric characters, codes) XS 17×17 dots (Alphanumeric characters, codes) XM 24×24 dots (Alphanumeric characters, codes) XL 48×48 dots (Alphanumeric characters, codes) XB 48×48 dots (Alphanumeric characters, codes)		
	For China Simplified Chinese (GB18030) 16×16 dots (Sung: Mincho) 24×24 dots (Heiti: Gothic) For Vietnam Vietnamese 9×9 dots 16×16 dots 24×24 dots		
Print Direction (characters, barcodes)	Characters: 0°, 90°, 180°, 270° Barcode: Parallel 1(0°), Parallel 2 (180°), Serial 1 (90°), Serial 2 (270°)		
Ratios	1:2, 1:3, 2:5,Any ratio		
Magnification (Character, barcode)	Character: vertical x1 to x12, horizontal x1 to x12 Barcode: x1-12		

Model name	VP208	
Built-in Functions	Status return Graphic Form overlay (99) Foreign letter registration (95) (For China) Character modification Ruled line Dump list Zero slash switching Format registration (99) Black/white inversion Serial number	
① Broken head element check ② Head open detection ③ Paper end detection Self-diagnosis ④ Kanji data check Functions ⑤ Sensor error detection ⑥ Command error detection ⑦ Machine error detection ⑧ Communication error detection		
EMC Standards	GB9254, GB17625.1	
Safety standards	GB4943.1	

2. Battery

Battery type	Lithium-ion battery	
Nominal voltage	7.4 V	
Nominal capacity	2500 mAh	
Operating cycle*1	Approximately 500 charge cycles or 3 years from the date of first use, whichever is earlier.	
Charging time*1	Approximately 4 hours	
Operating conditions*2	Continuous printing time 2 min. / Resting 6 min.	
Manufacturer	Joules Miles Co,. Ltd.	
Model name	GM/200 BAT-SM or JM/200BAT	

^{*1} Operating cycle and charging time depend on the operating environment.

3. Label Specifications

Media type/ Media form	Roll Dimension Coreless	n : Ф36 mm maximum
Media size		Length 20 to 1000 mm (20 to 1000 mm) Width 55 mm (57.5 mm) Length 20 to 1000 mm (20 to 1000 mm) Width 55 mm (57.5 mm) r size

^{*2} The charge-discharge cycle and charging time may vary depending on usage environment.

