# CITIZEN

# LINE THERMAL PRINTER MODEL CT-S801 Type III User's Manual



CITIZEN SYSTEMS JAPAN CO., LTD.

### WEEE MARK

En

If you want to dispose of this product, do not mix it with general household waste. There is a separate collection systems for used electronics products in accordance with legislation under the WEEE Directive and is effective only within European Union.

- Ge Wenn Sie dieses Produkt entsorgen wollen, dann tun Sie dies bitte nicht zusammen mit dem Haushaltsmüll. Es gibt im Rahmen der WEEE-Direktive innerhalb der Europäischen Union gesetzliche Bestimmungen für separate Sammelsysteme für gebrauchte elektronische Geräte und Produkte.
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Les appareils et les machines électriques et électroniques contiennent souvent des matières dangereuses pour l'homme et l'environnement si vous les utilisez et vous vous en débarrassez de façon inappropriée.

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  - It Se desiderate gettare via questo prodotto, non mescolatelo ai rifiuti generici di casa. Esiste un sistema di raccolta separato per i prodotti elettronici usati in conformità alla legislazione RAEE, valida solo all'interno dell'Unione Europea.
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### **Compliance Statement for European Users**

CE marking shows conformity to the following criteria and provisions:

Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), and RoHS direc-tive (2011/65/EU)

Full text of the EU declaration of conformity is available at the following internet address: http://www.citizen-systems.co.jp/en/printer/download/eu\_doc.html

**IMPORTANT**: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

CAUTION: Use shielded cable for this equipment.

#### Sicherheitshinweis

Die Steckdose zum Anschluß dieses Druckers muß nahe dem Gerät angebracht und leicht zugänglich sein.

#### For Uses in Canada

This Class A Information Technology Equipment (ITE) complies with Canadian CAN ICES-3(A)/NMB-3(A).

This Information Technology Equipment (ITE) does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

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Before using this product for the first time, carefully read these SAFETY PRECAUTIONS. Improper handling may result in accidents (fire, electric shock or injury).

In order to prevent injury to operators, third parties, or damage to property, special warning symbols are used in the User's Manual to indicate important items to be strictly observed.

- After having read this Manual, keep it in a safe, readily accessible place for future reference.
- Some of the descriptions contained in this manual may not be relevant to some printer models.

The following describes the degree of hazard and damage that could occur if the printer is improperly operated by ignoring the instructions indicated by the warning symbols.

## WARNING

Neglecting precautions indicated by this symbol may result in fatal or serious injury.

# 

Neglecting precautions indicated by this symbol may result in injury or damage to property.



This symbol is used to alert your attention to important items.



This symbol is used to alert you to the danger of electric shock or electrostatic damage.



This symbol denotes a request to unplug the printer from the wall outlet.



This symbol is used to indicate that the power supply must be grounded.



This symbol is used to indicate useful information, such as procedures, instructions or the like.



This symbol is used to indicate prohibited actions.

## PRECAUTIONS ON PRINTER INSTALLATION

# \Lambda WARNING

Do not use or store this product in a place where it will be exposed to:

- \* Flames or moist air.
- \* Direct sunlight.
- \* Hot airflow or radiation from a heating device.
- \* Salty air or corrosive gases.
- \* Ill-ventilated atmosphere.
- \* Chemical reactions in a laboratory.
- \* Airborne oil, steel particles, or dust.
- \* Static electricity or strong magnetic fields.
- Neglecting these warnings may result in printer failure, overheating, emission of smoke, fire, or electric shock.
- Do not drop any foreign object nor spill liquid into the printer. Do not place any object on the printer either.
- Do not drop any metallic object such as paper clips, pins or screws into the printer.
- Do not place a flower vase, pot, or anything containing water on the printer.
- Do not spill coffee, soft drinks, or any other liquid into the printer.
- Do not spray insecticide or any other chemical liquid over the printer.
- Dropping a metallic foreign object into the printer, may cause printer failure, fire, or electric shock. Should it occur, immediately turn the printer off, unplug it from the supply outlet, and call your local Citizen Systems dealer.

Do not handle the printer in the following ways:

- Do not subject the printer to strong impacts or hard jolts (e.g., being stepped on, dropped or struck).
- Never attempt to disassemble or modify the printer.
- Neglecting to handle properly may result in printer failure, overheating, emission of smoke, fire, or electric shock.

■ Install, use, or store the printer out of the reach of children.

- Electric appliances could cause an unexpected injury or accident if they are handled or used improperly.
- Keep the power cord and signal cables out of the reach of children. Also children should not be allowed to gain access to any internal part of the printer.
- The plastic bag the printer came in must be disposed of properly or kept away from children. Wearing it over the head may lead to suffocation.

# A CAUTION

Do not use the printer under the following conditions.

- Avoid locations subject to vibration or instability.
- Avoid locations where the printer is not level.
- The printer may fall and cause an injury.
- The quality of printing may deteriorate.
- Do not obstruct the printer's air vents.
- Do not place anything on the printer.
- Do not cover or wrap the printer in cloth or blankets.
- Doing so could cause heat to build up and deform the case or start a fire.
- Avoid using the printer near a radio or TV set or from supplying it from the same electric outlet as these appliances.
- Avoid using the printer interconnected with a cable or cord that has no protection against noise. (For interconnections, use shielded or a twisted pair of cables and ferrite cores, or other anti-noise devices.)
- Avoid using the printer with a device that is a strong source of noise.
- The printer may have an adverse effect on nearby radio or TV transmissions. There may also be cases when nearby electrical appliances adversely influence the printer, causing data errors or malfunction.
- Installed in any orientation other than those specified.
- Malfunction, failure, or electric shock may result.
- Connect the printer to a ground.
- Electric leakage may cause an electric shock.
- Do not connect the printer's ground to any of the following:
  - \* Gas piping
    - A gas explosion could result.
  - \* Telephone line ground
  - \* Lightning rod
    - If lightning strikes a large surge of current may cause fire or shock.
  - \* Water pipes
    - Plastic water pipes should not be used for grounding. (Those approved by a Waterworks Department may be used.)
- Before connecting or disconnecting the grounding lead to or from the printer, always unplug it from the electric outlet.











## PRECAUTIONS IN HANDLING THE PRINTER

# \land WARNING

Please observe the following precautions for power source and power cord:

- Do not plug or unplug the power cord with a wet hand.
- Use the printer only at the specified supply voltage and frequency.
- Use only the specified AC adapter with the printer.
- Check to make sure that the supply outlet from which the printer is powered has a sufficient capacity.
- Do not supply the printer from a power strip or current tap shared with other appliances.
- Do not plug the power cord into an electric outlet with dust or debris left on the plug.
- Do not use a deformed or damaged power cord.
- Do not move the printer while its power is on.
- Neglecting to handle it properly may result in printer failure, emission of smoke, fire, or electric shock.
- An overload may cause the power cord to overheat, catch fire, or the circuit breaker to trip.
- Do not allow anything to rest on the power cord. Do not place the printer where the power cord may be stepped on.
- Do not use or carry the printer with its power cord bent, twisted, or pulled.
- Do not attempt to modify the power cord unnecessarily.
- Do not place the power cord near any heating device.
- Neglecting these cautions may cause wires or insulation to break, which could result in electric leakage, electric shock, or printer failure. If the power cord sustains damage, contact your Citizen Systems dealer.
- Do not leave things around the electric outlet.
- Supply power to the printer from a convenient electric outlet, readily accessible in an emergency.
- Pull the plug to immediately shut it down in an emergency.
- Insert the power plug fully into the outlet.
- If the printer will not be used for a long time, disconnect it from its electric outlet.
- Hold the plug and connector when plugging or unplugging the power cord or signal cable after turning off the printer and the appliance connected to it.









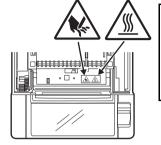






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Caution label is attached in the position shown in the following figure. Carefully read the handling precautions before using the printer.



THIS LABEL INDICATES THE RISK OF BURNS DUE TO THE HIGH TEMPERATURE OF THE PRINT HEAD AND A RISK OF BEING CUT BY THE MANUAL AND AUTO CUTTERS WHILE THE PAPER COVER IS OPEN.

- Do not transport this printer with the paper roll inside.
- Printer failure or damage may occur.
- To prevent possible malfunction or failure observe the following.
- Do not open the paper cover during printing.
- Avoid operating the printer without paper properly loaded.
- Avoid the use of paper not complying with specifications.
- May result in poor print quality.
- Avoid using torn pieces of paper or paper spliced with plastic adhesive tape.
- Avoid forcibly pulling already loaded paper by hand.
- Avoid using a sharp pointed device to operate panel buttons.

- Be sure to firmly insert the cable plugs into their mating sockets.
- A cross connection may damage the printer's internal electronics or the host system's hardware.
- Only use the printer with devices that have designated solenoid specifications for the cash drawer interface connector.
- Neglecting this caution may result in malfunction or failure.

# ▲ CAUTION

To prevent injury and printer failures from worsening, observe the following:

- While the paper cover is open, be careful to not touch the manual cutter that is in the paper eject slot.
- Do not touch the printing surface of the thermal head.
- Do not touch any of the moving parts (e.g., paper cutter, gears, active electric parts) while the printer is working.
- In case of trouble do not attempt to repair the printer. Ask Citizen Systems service for repair.
- Be careful that the covers do not pinch your hands or fingers.
- Be careful of the sharp edges on the printer. Do not allow them to injure you or damage property.
- May result in electric shock, burn, or injury.

If the printer emits smoke, an odd smell, or unusual noise while printing, immediately abort the current print session and unplug the printer from the electric outlet.

# (j) DAILY MAINTENANCE

Observe the following precautions for daily maintenance.

- When cleaning the printer, always turn it off and unplug it from the electric outlet.
- Use a soft, dry cloth for cleaning the surface of the printer case.
   For severe stains, use a soft cloth slightly dampened with water.
   Never use organic cleaning solvent such as paint thinner, trichloroethylene, benzene, or ketone. Never use a chemically processed cleaning cloth.
- To remove paper dust, use a soft brush.

## 

• The thermal head is at a dangerously high temperature immediately after printing. Allow it to cool off before starting maintenance work.

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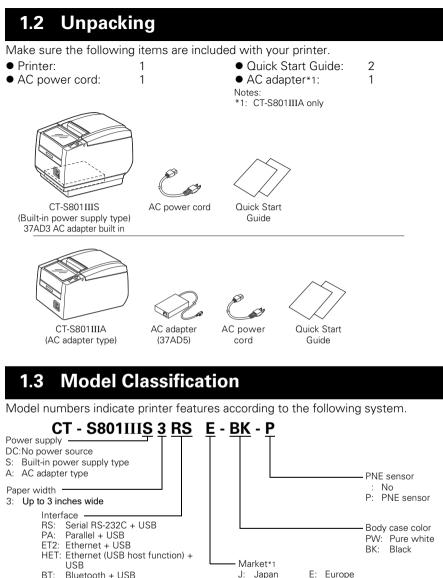
# 1. GENERAL OUTLINE

The CT-S801III line thermal printer series is designed for use with a broad array of terminal equipment including data, POS, and kitchen terminals.

These printers have extensive features so they can be used in a wide range of applications.

### 1.1 Features

- Prints at speeds up to 500 mm/sec (when the printer's density/speed setting (MSW5-6) is set to high-speed priority)
- Stylish design
- Built-in power supply or AC adapter types available
- Printer status and errors indicated by LCD, LED, and a buzzer
- LCD and four buttons make it easy to change settings
- Equipped with a fast and quiet cutter
- Easy to clear cutter jams
- USB interface included as standard
- USB power supply OFF
- Interchangeable interface
- XML/Web print function included (wired LAN or wireless LAN model)
- USB host function capable of controlling peripheral devices included (wired LAN or wireless LAN USB host model)
- Built-in cash drawer kick-out interface
- Memory switches make customization possible
- Store user-defined characters and logos on user memory
- Barcode and 2D barcode printing supported
- 16 level greyscale and clear printing
- Paper saving functions
- Japanese Kanji, Chinese(simplified and traditional) and Hangul supported
- Support for UTF-8 using commands
- Apple MFi certified Bluetooth communication support (Bluetooth model)



- BT: Bluetooth + USB
- WX: Wireless LAN + Ethernet + USB HWX:Wireless LAN + Ethernet (USB host function) + USB
- U: North America C: China
- A: Asia/Oceania

Certain combinations may not be available. Check with Citizen beforehand. Notes:

\*1: AC power cord, serial I/F screw, firmware and other specifications vary according to markets.

## 1.4 Basic Specifications

ltem	Specifications					
Model	CT-S801III					
Print method	Line thermal dot print method					
Print width *1	80 mm/640 dots, 72 mm/576 dots, 64 mm/512 dots, 54.5 mm/436 dots, 54 mm/432 dots, 52.5 mm/420 dots, 48 mm/384 dots, 45 mm/360 dots, 48.75 mm/390 dots, 68.25 mm/546 dots					
Dot density	8 × 8 dots/mm (20	)3 dpi)				
Print speed	500 mm/s (maxim	um speed,	, print dens	ity level 10	0%, 4000	dot lines/second)
Number of print columns *2	—	Maxir	mum numt (colu	per of chara mns)	acters	Dot configuration
	Paper width Font	83 mm	80 mm	60 mm	58 mm	(dots)
	Font A	53	48	36	35	12×24
	Font B	71	64	48	46	9×24
	Font C	80	72	54	52	8×16
Character size*3	Font A: 1.50 × 3.0 Font B: 1.13 × 3.0 Font C: 1.00 × 2.0	0 mm 0 mm				
Character type	Alphanumeric, international, PC437/850/852/857/858/860/863/864/865/866/737/862, WPC1252/1258/1251/1253/1255, katakana, ThaiCode 11/18 (1Pass/3Pass), TCVN-3					
Liquid crystal display (LCD)	128 × 32 dots ST	N liquid cry	vstal, white	/red LED b	acklight	
User memory	384 KB (capable of storing user-defined characters and logos)					
Bar code types	UPC-A/E, JAN (EAN) 13/8 columns, ITF, CODE39, CODE128, CODABAR (NW-7), CODE93, PDF417, QR Code, GS1-DataBar					
Line spacing	4.23 mm (1/6 inch) (changeable using commands)					
Paper roll	Paper roll: $83^{+0}_{-1}$ mm/ $80^{+0}_{-1}$ mm/ $60^{+0}_{-1}$ mm/ $58^{+0}_{-1}$ mm × maximum $\phi 83$ mm Paper thickness: 53 to 85 µm (core tube diameter: inner 12 mm/outer 18 mm)					
Interface	Serial (RS-232C compliant), parallel (IEEE 1284 compliant), USB, Ethernet, Bluetooth, wireless LAN+LAN, LAN(USB host function) (USB 2 port)					
Ethernet	100BASE-TX/10BA	ASE-T				
Wireless LAN	IEEE 802.11n, IEEE 802.11a, IEEE 802.11g, IEEE 802.11b					
Bluetooth	Version: Bluetooth 4.2 + EDR Profile: SPP (Serial Port Protocol), iAP2 (iPod Accessory Protocol) Electric power class: Class 2					
Cash drawer kick-out	Supports 2 cash drawers					
Buffer size	4 k bytes/45 bytes					
Supply voltage	DC 24 V ±5%					
Power consumption	Approximately 60 W (printing), 1 W (standby), 0.3 W (power off)					
AC adapter *4 (37AD3/5)	Rated input: AC 100 to 240 V, 50/60 Hz, 150 VA Rated output: DC 24 V, 2.1 A					

ltem	Specifications
Weight	CT-S801IIIS: Approx. 2 kg, CT-S801IIIA: Approx. 1.6 kg
Outside dimensions	CT-S801IIIS: 145 (W) × 192 (D) × 148 (H) mm CT-S801IIIA: 145 (W) × 192 (D) × 120 (H) mm
Operating temperature and humidity	5 to 45°C, 10 to 90% RH (no condensation)
Storage temperature and humidity	-20 to 60°C, 10 to 90% RH (no condensation)
Reliability	Print head life: 200 km, 200 million pulses (at normal temperature/humidity, using recommended paper and paper thickness) Auto cutter life: 2.2 million cuts (at normal temperature/humidity, using recommended paper and paper thickness)
Safety standard *5	UL, cUL, FCC, IC, CE, UKCA *
	*:Please contact us for information on other regions and the latest status such as

standardnumbers.

Notes:

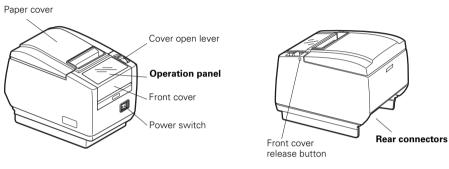
\*1: When paper width is 83, 80, 60, or 58 mm.

- \*2: The number of printable columns is selected using a memory switch. The numbers of columns noted in this table refer to typical models. The number of columns varies depending on specifications.
- \*3: Characters appear small because the dimensions include a blank area surrounding each character.
- \*4: The 37AD5 is the AC adapter packaged as an accessory with the CT-S801IIIA.
  - The 37AD3 is the AC adapter built in to the CT-S801IIIS.
- \*5: Compliant if the Citizen Systems AC adapter (37AD3/5) is used.

## 2. EXPLANATION OF PRINTER PARTS

### 2.1 Printer Appearance

### Names of parts



(Front view)

- Paper cover Open to load paper.
- Cover open lever Use this lever to open the paper cover.
- Front cover Open and close this cover to clear a cutter lock.



(Rear view)

- Front cover release button Press this button to open the front cover.
- Power switch Press this switch to turn the power on or off.

### **Operation panel**



Examples are shown in the diagram of the LCD above on the right.

• LCD

Indicates the printer's status, button names, types of errors, and messages.

• LED

Lights green when the power is on, turns off when the power is off. Flashes green when receiving data.

Lights red in special modes and in case of errors.

Lights orange when paper is low (paper near-end) or the print head is hot.

• Button 1 to Button 4

Functions assigned to these buttons vary depending on the active mode. The buttons are called button 1, button 2, button 3, and button 4 in order from left to right.

• FEED button

Press this button to feed paper.

To release a cutter lock, remove the cause of the lock, close the paper cover, and then press the FEED button.

Refer to 4.7 Error Messages

MENU button

Press and hold this button (for at least two seconds) to access the memory switch setting mode.

Refer to 5.3 Manual Setting of Memory Switches

#### • PAPER LOW

Appears when the paper roll is near its end.

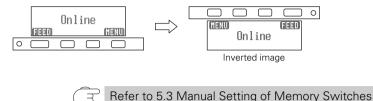
LOCK icon

This icon indicates that the MENU button is inoperative.

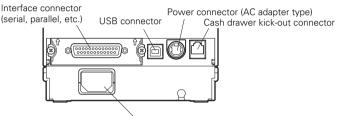
Refer to 4.5 Key Lock Function

### LCD in the vertical or wall mounted position

You can change the memory switch settings to invert the LCD if the printer is used in a vertical position or installed on a wall.



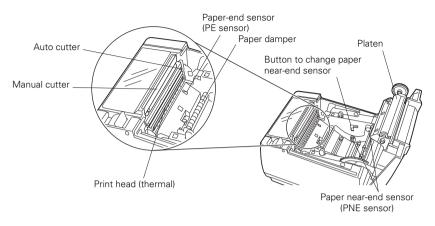
### **Rear connectors**



AC inlet (built-in power supply type)

- Interface connector (serial, parallel, etc.) Connects to the interface cable. The serial interface board is equipped with a DIP switch.
- Cash drawer kick-out connector Connects to the cable from the cash drawer.
- Power connector (AC adapter type) Connects to the AC adapter cable.
- AC inlet (built-in power supply type) Connects to the AC power cord.

### 2.2 Inside the Paper Cover



### • Platen

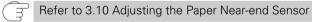
Feeds the paper.

Do not remove the platen except to do maintenance.

Paper near-end sensor (PNE sensor)

Detects when the paper is near the end of the roll. Adjust the position of the sensor to determine when it detects the end of the paper is near.

• Button to change paper near-end sensor Change the position of the paper near-end sensor to match the paper being used.



#### Manual cutter For cutting the paper manually when printing is finished.

### • Auto cutter

Automatically cuts the paper when printing is finished.

- Print head (thermal) Prints characters and graphic data on paper (paper rolls).
- Paper end sensor (PE sensor) Detects when there is no paper. Printing stops when this sensor detects there is no paper.
- Paper damper Assists paper feed.

### 2.3 Other Built-in Functions

Buzzer

Buzzes when errors occur or when operations or command operations are performed.

Refer to 4.7 Error Messages

• User memory

You can save user-defined logo and character data in this memory. Data remains stored in this memory even if the printer is turned off. For information on how to save data, refer to the Command Reference.

Memory switch

Setting of various kinds of functions can be stored in memory. Settings remain stored in the memory even if the printer is turned off.

• USB power supply OFF (When memory switch MSW6-3 is set to ON) When the printer is connected to a PC by USB, turning off PC power or terminating the USB connection causes printer USB power to turn off three seconds later. This mode is canceled when the PC is turned back on or when a USB connection is established



- The POWER LED is unlit when USB power supply is OFF, and the power OFF state cannot be identified
- Pressing POWER while USB power is off does not turn on power immediately. After a while, USB power supply OFF is canceled and pressing POWER turns on power normally.
- Paper saving functions Memory switches MSW8-3 through MSW8-5 can be used to configure the settings below, which save paper.
  - Top margin suppression The printer back feeds the paper before printing which reduces the blank space at the top edge of the paper.

The back feed amount can be specified.

- Line gap reduce Automatically compresses the linefeed amount between lines. The compression ratio can be specified.
- Text compression vertical/horizontal

Makes the print size smaller.

The compression amount is specified by a combination of vertical and horizontal compression ratios.

### • Auto side shift (MSW8-6)

This function dissipates heat load during frequent heat generation by a vertical ruled line or other specific head heating element.

If no data is received within 15 seconds after each cut or print, the print position is automatically slid N\* dots to the right. The original print position is returned to at the next slide timing.

\* N is the MSW8-6 setting value.

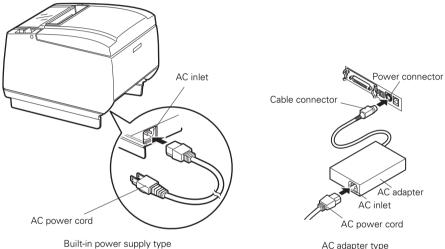


- Before configuring the top margin suppression setting, first remove any partially cut paper from the printer. Failure to do so can cause the cut paper to be torn off by the next print operation, which can cause printer trouble.
- Note the following precautions when using text compression.
  - Compressed text is more difficult to read than the original text.
  - Horizontally compressing text also makes the print range smaller, so the number of print lines does not change. Pay close attention to the print range when using narrow paper.
  - Do not use compressed text when printing a bar code. Doing so may make the bar code unreadable.
- If the right margin is too narrow, this may result in some print characters being cut off. This function is disabled under initial settings. To enable this function, use MSW8-6 to specify an appropriate value for the maximum slide amount.

### SETUP 3.

#### **Connecting the AC Power Cord** 3.1

- Turn off the power. 1.
- 2. • For the built-in power type printer, connect the AC power cord to the AC inlet, and insert the plug into an electric outlet.
  - For the AC adapter type printer, connect the cable connector of the AC adapter to the power connector. Next, connect the AC power cord to the AC inlet, and insert the plug into an electric outlet.



Built-in power supply type

## CAUTION

- Use only an AC adapter that complies with the specified ratings.
- Always hold the AC adapter's cable connector by the connector when removing or inserting it.
- Use an AC power source that does not also supply power to equipment that generates electromagnetic noise.
- Pulling on the AC power cord may damage it, cause a fire, electric shock, or break a wire.
- If a lightning storm is approaching, unplug the AC power cord from the electric outlet. A lightning strike may cause a fire or electric shock.
- Keep the AC power cord away from heat generating appliances. The insulation on the AC power cord may melt and cause a fire or electric shock.
- If the printer is not going to be used for a long time, unplug the AC power cord from the electric outlet.
- Place the AC power cord so that people do not trip on it.
- For the AC adapter type printer, be sure to unplug the AC power cord when connecting the cable connector to the power connector.

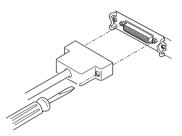
If the AC power cord is left plugged into the electric outlet, the 24 V and GND terminals of the cable connector may come into contact with the screw head or other metal parts and cause a short circuit, resulting in malfunction of the AC adapter.

### 3.2 Serial Interface Board

Data can be exchanged by serial communication.

#### **Connecting the Interface Cable**

- 1. Turn off the power.
- 2. Orient the cable correctly and insert it into the connector.



3. Insert the other connector firmly into the interface port of the host computer.



■ When disconnecting the cable, always hold the connector.

Place the interface cable so people do not trip on it.

Do not connect multiple interfaces at the same time.

Use a serial interface cable with the connection layout shown below.

25-pin - 25-pin cable

PC

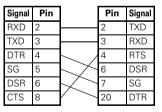
Printer

Signal	Pin		Pin	Signal
FG	1		1	FG
TXD	2	$\land$	2	TXD
RXD	3	$\sim$	3	RXD
CTS	5		4	RTS
DSR	6	k >	6	DSR
SG	7	$\vdash$	7	SG
DTR	20	$\lor$	20	DTR

9-pin - 25-pin cable

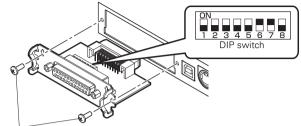
PC

Printer



### Setting the DIP Switch on the Serial Interface Board

- 1. Turn off the printer and unplug the power cord from the electric outlet.
- 2. Remove the mounting screws of the serial interface board.
- 3. Remove the serial interface board from the printer.
- 4. Set the DIP switch according to the following table.



Serial interface board mounting screws

## 

When setting the DIP switch, do not remove any screws except the serial interface board mounting screws.

The function of each switch is shown below. (Shaded values are factory settings. However, factory settings differ depending on the destination market.)

Switch no.	Function	ON	OFF
1	Communication condition setting	According to DIP switch settings	According to memory switch settings
2	Hand shake	XON/XOFF	DTR/DSR
3	Bit length	7 bits	8 bits
4	Parity check	Yes	No
5	Parity selection	Even parity	Odd parity
6	Baud rate	Refer to ta	ble below.
7	selection		
8	INIT	Reset	Invalid

#### **Baud rate selection**

Baud rate (bps)	Switch no.		
Baud fate (bps)	6	7	
2400	OFF	OFF	
4800	ON	OFF	
9600	OFF	ON	
19200	ON	ON	

When switch no. 1 is set to OFF, you can use a command or a memory switch to select 1200, 38400, 57600, or 115200 bps.

### 3.3 Parallel Interface Port

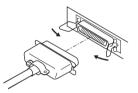
Data can be sent and received by parallel transmissions.

### **Specifications**

Transmission method	8-bit parallel data
Receive buffer size	16kByte
Transmission mode	Compatible mode/nibble mode/ECP mode
Signal level	IEEE 1284 compliant
Connector	Amphenol 36 pin

### **Connecting Interface Cables**

- 1. Turn the power off.
- 2. Confirm the top and bottom of the interface cable before connecting it to the connector.



3. Firmly insert the other end of the connector into the interface connector of the host computer.



- Always hold cables by the connector as you disconnect them.
- Install the interface cable so it does not catch on people's feet, etc.
- Do not connect multiple interfaces at the same time.

### 3.4 USB Interface Board

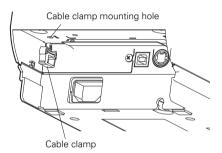
Data can be exchanged by USB communication.

### **Specifications**

Standard	USB 2.0 specification-compliant		
Communication speed	Supports 12 Mbps (Full-Speed) transfer		
Connector	Туре-В		
Compatible cable clamp	GRBWS-0610E-V0 (KITAGAWA INDUSTRIES) or similar product		

### **Connecting the Interface Cable**

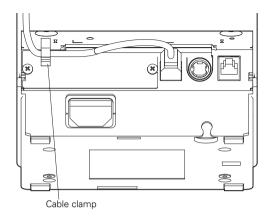
- 1. Turn off the power.
- 2. Insert the cable clamp into the cable clamp mounting hole.



3. Orient the cable correctly and insert it into the connector.



4. Secure the interface cable with the cable clamp.



5. Insert the other connector firmly into the interface port of the host computer.



- When disconnecting the cable, always hold the connector.
- Place the interface cable so people do not trip on it.
- Be careful not to insert the USB interface cable into the cash drawer kick-out connector.
- To connect more than one printer to a single computer via a USB interface you must change the serial number of the USB interface.
- Do not connect multiple interfaces at the same time.

### 3.5 Bluetooth Interface Board

### Names of parts



Status LED Switch

- Status LED The Bluetooth communication/connection/error status is indicated by this LED.
- Switch Control this interface board.

### Bluetooth status LED

Status	Description	LED Status
Detection standby (Discoverable)	Standing by for detection and connection	
Connection standby (Connectable)	Standing by for connection	
iOS connection	Data session unopened	
Communicating	iOS: data session opened Other OS: connection established and communication in progress	
Error	Error or settings being configured	Unlit

### Pairing operation

You need to perform the operations below the first time you establish a Bluetooth connection for Bluetooth data communication.

A: Detect Bluetooth devices

B: Configure pairing settings

### A: Detecting Bluetooth devices

Confirm that Bluetooth is enabled on the host PC before searching for Bluetooth devices.

This product will show up as "CT-S801III\_XX"(XX is last 2 digits of unique **Serial Number**.) when it is detected.

Select this product from among the detected devices.

Note: You can search for devices and change the names.

When memory switch MSW13-5 is set to "No Response" nothing is displayed by device detection.

You can temporarily switch this setting to device detection (detect mode) by pushing the switch on the Bluetooth interface board. Detect mode is exited when the connection between the host PC is terminated.

### **B**: Configuring pairing settings

Normally, selecting the printer during device detection will transition directly to pairing settings.

## 

Some host PC configurations and models may not transition directly to pairing settings after the printer is selected during device detection.

The operation required to configure pairing settings depends on whether SSP (secure simple pairing) is enabled on the host PC.

If SSP is enabled on the host PC, pairing can be achieved without additional operations.

If SSP is disabled on the host PC, you will be prompted to input a passkey. Input the passkey as described below.

Passkey Last four digits of the address on the self test printout

(Letters A through F are uppercase)

Example: If the address is 01:23:45:67:89:AB the passkey is 89AB.

If you delete paring information from the host PC without deleting the corresponding pairing information on the printer, the printer may not show up if you detect devices again with the host PC.

To delete printer pairing information, hold down the switch on the Bluetooth interface board for two seconds or more.

Deleting pairing information on the printer will put the printer into discovery mode.

### Auto reconnection

With iOS device Bluetooth communication, a connection between a paired iOS device and the printer is not automatically restored after it is lost. However, when auto reconnection is enabled, the printer tries to reconnect with an iOS device after two-way communication is enabled and automatically restores the connection.



This function is enabled when shipped from the factory. (MSW13-6)

- Auto reconnection can take some time to connect when the host is not an iOS device.
- Even if the partner device is an iOS device, the conditions below can interfere with the auto reconnection function.
- When you want Bluetooth communication to cut off after printing is complete
- When there are multiple iOS devices printing on the same printer

Under such conditions, disable auto reconnection.

#### Enabling and disabling auto reconnection

To change the setting of this feature, the following method is provided. Press the FEED button 3 times during self test -> Auto reconnect = Valid Press the FEED button 4 times during self test -> Auto reconnect = Invalid At the end of self test, new setting will be printed as Auto reconnect [Valid] or [Invalid]

Refer to 4.4 Function Test Mode

### 3.6 Ethernet (LAN)/Wireless LAN Interface Board

This section provides an overview of the interface board. For details on this board, including explanations about the USB host function and XML peripheral device support, refer to the separate manual.

### **Connecting the Interface Cable**

- 1. Turn off the power.
- 2. Orient the cable correctly and insert it into the connector.



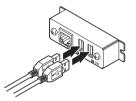
3. Connect the other connector to a hub, router, or similar device.

## 

- When disconnecting the cable, always hold the connector.
- Place the interface cable so people do not trip on it.
- Hold the connector of the LAN cable perpendicular and straight when connecting or disconnecting it. Doing it at an angle may cause the connector to misconnect.
- Do not connect multiple interfaces at the same time.

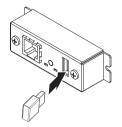
### **Connecting a Peripheral Device**

- 1. Turn off the power.
- 2. Insert the cable of the peripheral device into the connector.



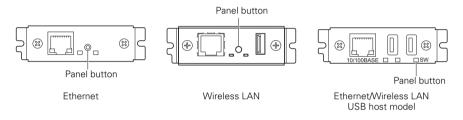
### Connecting the wireless LAN adapter

- 1. Turn off the power.
- 2. Connect the wireless LAN adapter to the connector.



### Panel button operation

Board operations are performed using the panel button on the rear of the LAN board.



- Enabling LAN connection Turn on the printer. Operation of this board will start about 20 seconds later.
- Printing LAN setup information Press the panel button.

### • Entering setting mode

Hold down the panel button. A buzzer\* will sound once to indicate that setting mode has been entered.

- You can use setting mode to read factory settings.
- If no operation is performed for 3 seconds in configuation mode, the mode switches back to normal mode.
- Returning to factory settings

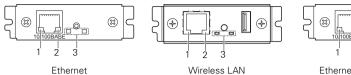
Enter the board setting mode, and then hold down the panel button. This returns the board to its factory settings.

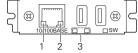


The board will automatically restart after this operation is complete. After clearing settings, you will need to re-configure netork settings.

### LED Functions

The tables below explain how to interpret LED indications.





Ethernet/Wireless LAN USB host model

### 1. Wired LAN transmission speed

Transmission speed	LED (green)
100 Mbps	Lit
10 Mbps/Not connected	Unlit

### 2. Wired LAN connection/transmission status

Connection status	LED (yellow)
Connected	Lit
Not connected	Unlit
Data transmission in progress	Flashing

### 3. Wired/Wireless LAN status

Connec	Connection status		LED (red)	Description
No printer connection		Unlit	_	Board is not connected with a printer.
Printer No network Li connection		Lit	Unlit	Board is connected with a printer.
	Connected by wired LAN	Lit	Flashing (1-second cycle)	Getting an IP address from the DHCP server over wired LAN.
	Wired LAN operation	Lit	Lit	Network operation being performed over wired LAN.
	Connected by wireless LAN*	Flashing (2-second cycle)	Flashing (1-second cycle)	Connecting to an access point or getting an IP address from the DHCP server over wireless LAN.
	Wireless LAN operation*	Flashing (2-second cycle)	Lit	Network operation being performed over wireless LAN.
Resource error		Alternate flashing (1-second cycle)		Board is unable to operate normally.
System error		Alternate flashing (0.2-second cycle)		Board is unable to operate normally.

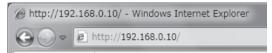
\*: Only when using wireless LAN

### Web Manager

The interface board has a Web Manager function that can be used to connect to the board with a web browser and change board settings.

### Starting up Web Manager

- 1. Start up a web browser.
- 2. In the address field, input the board's IP address and then press [Enter].



### **HOME Screen**

This is the Web manager home screen. The following screen is an example for a wireless LAN.

Wireless LAN board		CITIZEN SYSTEMS
HOME   STATUS   CONFIG	Logout	
Welcome		
	Click STATUS to show Wireless LAN board st	atus.
	Click CONFIG to change the setting of Wireles	s LAN board.

Here, press the [CONFIG] button.

### **CONFIG Screen**

This will display the Login dialog box shown below. Log in as an administrator and then configure interface board settings.

Login	
User Name	
Password	
Logi	n Cancel

• User Name

Input a board administrator user name. (Initial setting: admin)

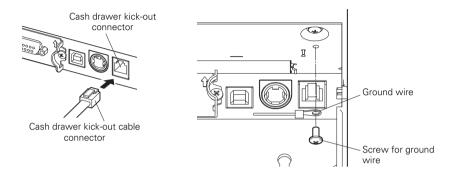
- Password Input the administrator user password. (Initial setting: admin)
- [Login] button

After inputting an administrator user name and password, click the [Login] button. This displays the setting screen.

For details about settings, refer to the separate manual.

## 3.7 Connecting the Cash Drawer

- 1. Turn off the power.
- 2. Confirm the orientation of the cash drawer kick-out cable connector and connect it to the cash drawer kick-out connector at the back of the printer.
- 3. Remove the screw for the ground wire.
- 4. Screw the cash drawer's ground wire to the body of the printer.



# 

- Connect only the cash drawer kick-out cable connector to the cash drawer kick-out connector. (Do not connect a telephone line.)
- Signals cannot be output from the cash drawer kick-out connector while printing.

### (1) Connector pin configuration

No.	Signal	Function	
1	FG	Frame ground	
2	DRAWER1	Cash drawer 1 drive signal	╽╷┍┹═┺┑║
3	DRSW	Cash drawer switch input	
4	VDR	Cash drawer drive power supply	╏└┟┼┼┼┼┼┥┙║
5	DRAWER2	Cash drawer 2 drive signal	┖┰╌┶┼┼┼┼┼┼╴┰┚
6	GND	Signal ground (common ground on circuits)	6 1

(2) Electric characteristics

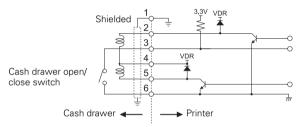
- 1) Drive voltage: 24 VDC
- 2) Drive current: Approx. 1 A max. (not to exceed 510 ms.)
- 3) DRSW signal: Signal levels: "L" = 0 to 0.8 V, "H" = 2 to 3.3 V

#### (3) DRSW signal DRSW signal

DRSW signal status can be tested with the DLE+EOT, GS+a, or GS+r command or at pin 34 on the parallel interface port.

(4) Drive circuit

Cash drawer kick-out connector



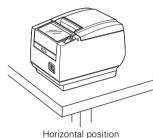
# 

- Cash drawers 1 and 2 cannot be operated at the same time.
- The solenoid used for the cash drawer should be 24  $\Omega$  or more. Do not allow the electric current to exceed 1 A. Excessive current could damage or burn out the circuits.

### 3.8 Precautions for Installing the Printer

The printer can be used horizontally, vertically, or installed on a wall. However, the CT-S801IIIS (built-in power supply type) cannot be used vertically or installed on a wall.

Use the optional stand for vertical applications, and the optional brackets for wall installations. Please refer to the manual for further details.



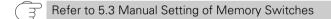




Wall installation

Vertical position

You can change the memory switch settings to invert the LCD if the printer is used in a vertical position or installed on a wall.





Change the paper near-end sensor settings for vertical and wall installations. (The factory setting for the paper near-end sensor is for horizontal installations.)

Refer to 3.10 Adjusting the Paper Near-end Sensor

# CAUTION

#### Do not use the printer under the following conditions.

- Locations subject to vibration or instability.
- Locations that are very dirty or dusty.
- Locations where the printer is not level.
- The printer may fall and cause an injury.
- The quality of printing may deteriorate.
- Oriented other than as specified.
- The printer may malfunction, be damaged, or cause an electric shock.

#### Precautions for horizontal installations

Do not set cutting to full cut. Doing so may cause cutter jams.

- Precautions for vertical/wall installations
- Adjust the paper near-end sensor.

#### Precautions for vertical installations

- The optional stand may fall over when you pull on partially cut thick paper. Do not use thick paper.
- After printing, do not pull on the paper before it is cut. The printer and case could fall over and cause injury or damage.

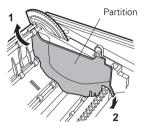
### 3.9 Partition for Paper Roll

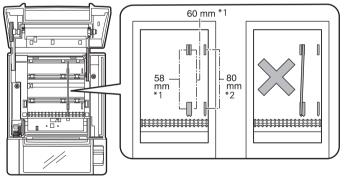
Set the partition to the width of the paper roll you are loading.

- 1. Turn off the power.
- 2. Pull the cover open lever forward and open the paper cover.

3. Set the partition in a slot that matches the size of the paper roll you are using. When using 83-mm wide roll paper, the partition must be removed. When using 80-mm wide roll paper, the partition must be installed in the 80-mm position. When using 60-mm wide roll paper, the partition must be installed in the 60-mm position. When using 58-mm wide roll paper, 2 partitions must be installed in the 58-mm and 60-mm positions.

4. Refer to "5.3 Manual Setting of Memory Switches" to change the paper width settings.





Notes: \*1: 2-inch (58/60 mm) paper \*2: 3-inch (80/83 mm) paper



Make sure the partition is not slanted when setting it for 58-mm or 60-mm paper rolls. When a partition is installed in the 58-mm groove, install a partition in the 60-mm groove also. Installing 2 partitions prevents the partitions from skewing.

When using 58-mm wide paper, use the printer as a dedicated printer for that paper size. The printer may not correctly feed paper or print if it is switched to 80-mm wide paper after using 58-mm wide paper.

### 3.10 Adjusting the Paper Near-end Sensor

Change the settings of the paper near-end sensor to set the position at which the near-end of the paper is detected.

- 1. Use a pointed object, such as a pen, to gently press the button to change the paper near-end sensor.
- 2. Press and hold down the button while moving the paper near-end sensor up, down, right and left. The sensor positions are shown below for the various diameters of the paper roll used.

(Unit: mm)

Sensor position	Exterior diameter when detected as near end	Exterior/ interior diameter of core of paper roll used
A, a	Approximately ¢31	φ18/φ12
B*, b	Approximately ¢23	φ18/φ12
С	Paper near-end s	ensor function is off

When paper thick	ness is 75 µm or more	(Unit: mm)
Sensor position	Exterior diameter when detected as near end	Exterior/ interior diameter of core of paper roll used
A, a	Approximately $\phi$ 41	¢32/¢25.4
B*, b	Approximately ¢34	¢32/¢25.4
С	Paper near-end s	ensor function is off

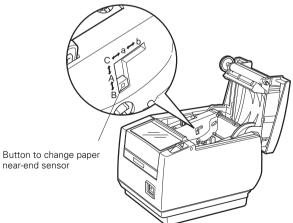
Note:

\*: Position of sensor when shipped from factory. However, factory settings differ depending on the destination market.

# 

When paper thickness is 75 um or less

The diameter of the roll of paper that is detected is an estimate. Some variations may occur depending on the paper.

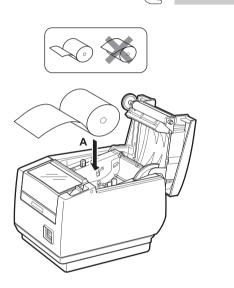


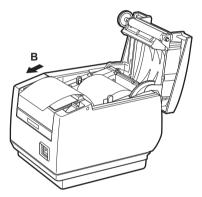
("A" and "B" are for horizontal installations, and "a" and "b" are for vertical or wall installations.)

## 3.11 Loading Paper

- 1. Turn on the power.
- 2. Pull the cover open lever forward and open the paper cover.
- 3. Load the paper roll so that the printable side of the paper is facing down, as shown by arrow A.
- 4. Pull a few cm of paper straight out in the direction of arrow B.
- 5. Close the paper cover until you hear a click. Paper is fed and cut automatically (by the factory setting).

Refer to 5.3 Manual Setting of Memory Switches







- Always use the specified types of paper rolls.
- Confirm that the paper roll is set correctly.
- If the paper is skewed and not coming straight out of the paper cover, open it and straighten the paper.
- Always pull a few cm of paper straight out of the printer if you open the paper cover while paper is loaded.
- Press on the center of the paper cover to close it securely.
- Be careful of paper cuts while loading the paper.
- Do not touch the print head, manual cutter, or auto cutter while the paper cover is open. Doing so may cause a burn or cut.

## 3.12 Download Site for Various Electronic Files

You can view support information and download the latest documents, drivers, utilities, etc. from the following site.

https://www.citizen-systems.co.jp/en/printer/download/#CT-S801III

### 3.13 Precautions for Creating Applications and Practical Operations

If printing is done immediately after the paper is partially cut and torn off, the top of the next print out may be distorted.

We recommend advancing the paper one line after cutting before printing.

If you are using a serial interface that has a slow data transmission speed, streaks may appear in the printouts when you are printing graphics or gradated text, which require large amounts of data.

USB interfaces may be susceptible to the effects of electromagnetic interference from the host or environment.

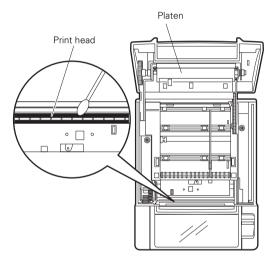
If this is the case, try using a cable with ferrite cores on both ends, which are very effective at eliminating EMI.

# 4. MAINTENANCE AND TROUBLESHOOTING

### 4.1 Periodic Cleaning

A dirty print head or platen may reduce printing quality or cause malfunctions. We recommend cleaning the printer periodically (every 2 to 3 months) as shown below.

- 1. Turn off the power.
- 2. Pull the cover open lever forward and open the paper cover.
- 3. Wait a few minutes until the print head cools.
- 4. Use a cotton swab dampened with ethyl alcohol to wipe off any dirt and dust that is on the print head and platen.



The print head is hot immediately after printing. Do not touch it.

Do not touch the print head with bare hands or metal objects.

### 4.2 Clearing a Cutter Lock (1)

The message "Cutter lock" may appear and the auto cutter blade may remain extended because a foreign object or paper jam is obstructing it.



If "Cutter lock" is displayed, clear the locked cutter as shown below.

- 1. Turn on the power.
- 2. Pull the cover open lever forward and open the paper cover.
- 3. Remove any jammed paper including any scraps of paper. (Remove the paper roll that is loaded in the holder also.)
- 4. Reload the paper roll and close the paper cover.



The print head is hot immediately after printing. Do not touch it.

Do not touch the print head with bare hands or metal objects.

After doing the procedure in "Clearing a Cutter Lock (1)" and then opening the paper cover, if the blade of the auto cutter is extended, do the procedure in "Clearing a Cutter Lock (2)".

<sup>D</sup> Refer to 4.3 Clearing a Cutter Lock (2)

### 4.3 Clearing a Cutter Lock (2)

The paper cover is designed to be opened if the cutter locks by pressing the cover open lever. If this does not open the paper cover, use the following procedure to clear the locked cutter.

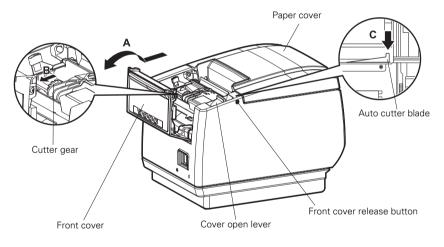
- 1. Turn off the printer and unplug the power cord from the electric outlet.
- 2. Press the front cover release button with a pointed object, such as a pen, and open the front cover in the direction of arrow A.

Slide the front cover 3 to 4 mm in the direction of arrow A and rotate it forward.

 Rotate the cutter gear in the direction of the B arrow to return the auto cutter to a position in which the paper cover can be opened. Turn the cutter gear until the auto cutter blade retracts in the direction of arrow C. If

the blade of the auto cutter does not move when you turn the cutter gear in the direction of arrow B, turn it in the other direction.

- 4. Pull the cover open lever forward and open the paper cover.
- 5. Remove whatever caused the cutter to lock.
- Close the front cover. Rotate the front cover in the opposite direction of arrow A and then slide it until it clicks.
- 7. Load a paper roll and close the paper cover.
- 8. Insert the power cord plug into an electric outlet and turn the power on. Check that the LED lights green.



# 

- Before starting to do maintenance work, be sure to turn off the printer and unplug the power cord from the electric outlet.
- Be careful not to touch the manual cutter while the front cover is open.
- Be careful not to touch the opening for the auto cutter while the paper cover is open.
- The print head is hot immediately after printing. Do not touch it.
- Do not touch the print head with bare hands or metal objects.
- If the above procedure does not retract the auto cutter, contact your Citizen Systems dealer.

### 4.4 Function Test Mode

Press and hold button 1 while turning on the printer to access the function test mode.

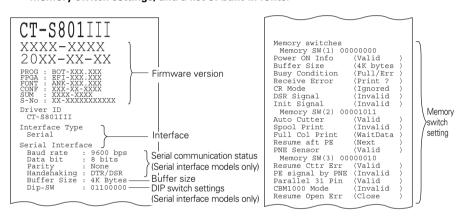
Use button 3 ( $\mathbf{\nabla}$ ) to select a function, use button 4 ( $\mathbf{\Box}$ ) to execute the function. Except for the self test and printing memory switch settings, all functions are for service personnel only. Do not operate those functions.

### Self test

 While paper is loaded, press and hold button 1 while turning the power on. The function test mode starts and "Self test" appears on the



LCD.
 2. Press button 4 (■).
 Self test starts. The printer prints its model name, version, DIP switch settings, memory switch settings, and a list of built-in fonts.



### Printing memory switch settings

- 1. While paper is loaded, press and hold button 1 while turning the power on. The function test mode starts and "Self test" appears on the LCD.
- Press button 3 ( **V** ). "Printing MSW" appears on the LCD. 2.
- 3. Press button 4 ( A list of the current memory switch settings starts printing.

< Mode select > Printing MSW \_\_\_\_\_

The function test mode has the following sub modes.

Function	Description
Self test	Runs self test.
Printing MSW	Prints memory switch settings.
Quick Setting *1	Sets the memory switches to be compatible with specific models.
DriverID Setting	Changes the Driver ID.

Notes:

\*1: The memory switches are automatically set to their optimum settings by selecting the manufacturer and model of the printer being replaced.

#### Selected item

Manufacturer	Model	Paper width	Character space	
CITIZEN	CBM1000	58 mm	—	
		80 mm	—	
	CT-S300	58 mm	—	
		80 mm	_	
	CT-S2000	58 mm	—	
		60 mm	—	
		80 mm	—	5
		83 mm	—	
EPSON	T88	58 mm	0dot	
			1dot	
		80 mm	0dot	
			1dot	
	203dpi	58 mm	_	
		60 mm	_	
		80 mm	_	

#### Automatic memory switch settings

MSW2-4 Full Col Print	MSW3-7 CBM1000 Mode	MSW8-1 Print Width	MSW6-2 Character Space
Auto linefeed	Valid	432dots	_
Auto linefeed	Valid	576dots	—
WaitData	Invalid	384dots	—
WaitData	Invalid	576dots	_
Auto linefeed	Valid	432dots	-
Auto linefeed	Valid	436dots	—
Auto linefeed	Valid	576dots	—
Auto linefeed	Valid	640dots	-
WaitData	Invalid	360dots	0dot
WaitData	Invalid	390dots	1dot
WaitData	Invalid	512dots	0dot
WaitData	Invalid	546dots	1dot
WaitData	Invalid	420dots	_
WaitData	Invalid	436dots	_
WaitData	Invalid	576dots	_

### **DriverID Setting**

The driver ID in the models specified below can be changed.

Each type of driver is available for each model.

Normally, if a printer is replaced by a different model, the driver needs to be reinstalled.

When replacing one of the specified models, you can use the driver you have been using so far by changing the driver ID.

### Specified models

CT-S801III, CT-S801II, CT-S801, CT-S601II, CT-S601

- 1. While paper is loaded, press and hold key 1 as you turn the power on. The function test mode starts, and "Self test" appears on the LCD.
- 2. Press key 3 ( ▼ ) 3 times. "DriverID Setting" appears on the LCD.
- 3. Pressing key 4 ( ) starts the driver ID setting mode, and "DriverID Setting CT-S801III" appears on the LCD.

Select the name of the model to be replaced.

Each time key 2 ( ) is pressed, "DriverID Settings CT-S601" -> "DriverID Settings CT-S601II" -> "DriverID Settings CT-S801II" -> "DriverID Settings CT-S801II" -> "DriverID Settings CT-S801III" -> "DriverID Settings CT-S801II" -> "DriverID Settings CT-S801II" -> "DriverID Settings CT-S801III" -> "DriverID Setti

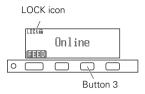
Each time key 3 (♥) is pressed, "DriverID Settings CT-S801II" -> "DriverID Settings CT-S801" -> "DriverID Settings CT-S601II" -> "DriverID Settings CT-S801III" appears in this order.

4. Select a model name, then press key 4 ( ) to restart the printer.

### 4.5 Key Lock Function

Press and hold the MENU button while the printer is running to be able to change the memory switch settings.

Activate the key lock to prevent making changes by mistake.



#### Setting the key lock

To set the key lock, press and hold button 3 (for at least three seconds). MENU disappears, and the LOCK icon appears.

In this condition, it is not possible to enter the memory switch setting mode even if you press and hold the MENU button.

#### Releasing the key lock

To release the key lock, press and hold button 3 (for at least three seconds). The LOCK icon disappears, and MENU appears.

### 4.6 Hexadecimal Dump Printing

Print received data in hexadecimal. If problems such as missing or duplicated data occur, this function allows you to check whether or not the printer is receiving data correctly.

#### How to do hexadecimal dump printing

- 1. Load paper.
- While the paper cover is open, press and hold button 1 while turning the power on, and then close the paper cover. Enter HEX dump print mode.
- 3. The printer prints "HEX dump print mode" followed by the received data printed in hexadecimal numbers and some characters.

#### How to stop hexadecimal dump printing

Do one of the following to stop printing.

- Press button 1 (FEED) three times in a row
- Turn off the power
- Receive a reset command from an interface



- The printer prints " . " if there is no character corresponding to the data.
- None of the commands function during hexadecimal dump printing.
- If print data does not cover a complete line, press button 1 (FEED) to advance the paper.

Print example HEX dump print mode 61 62 63 64 65 66 67 0A 0D 0D 0D 0D abcdefg..... 0D 0D 0D .....

### 4.7 Error Messages

### • Paper end

The end of the roll of paper is detected at two stages, paper near-end and paper-end.

When paper near-end is detected, "PAPER LOW" appears on the LCD and the LED lights orange. Prepare a new paper roll.

When paper-end is detected, "Paper end" appears on the LCD and the LED lights red. Load a new paper roll.

#### • Paper cover open

Do not open the paper cover during printing. If the paper cover is opened, the LED and LCD light red. Check the paper and always pull a few cm of paper straight out of the printer before closing the paper cover. Printing resumes. Sending a command to resume printing may be required depending on the memory switch setting.

### • Cutter lock

If the auto cutter cannot move because of a paper jam or something else, the LED and LCD light red. Remove the cause of the trouble and press button 1 (FEED). If the auto cutter still does not operate and the paper cover does not open, refer to "4.3 Clearing a Cutter Lock (2)".

 $\overrightarrow{3}$  Refer to 4.3 Clearing a Cutter Lock (2)

Head overheat

When you print dense characters, dark images, or for an extended time in a hot environment, the print head temperature increases. If the print head exceeds a specified temperature, the printer stops printing and waits for the print head to cool. When this happens, the LED and LCD light orange. Printing resumes automatically when the print head cools.

The situation during various errors is shown below.

The LCD's top line is the type of error, the bottom line is the remedy. Scroll through messages that are longer than 16 characters.

	Paper end
	Please change pa
0	

Status	Message	LED	Backlight	Buzzer*2
Paper near-end	PAPER LOW	Orange	_	No
Paper-end	Paper end Please replace paper roll.	Red	Red	Yes
Front cover open	Front cover open Please close front cover.	Red	_	No
Paper cover open	Paper cover open Please close paper cover.	Red	_	No
Cutter locked	Cutter lock Open paper cover & remove jam.	Red	Red	Yes
Print head hot	Head overheat Please wait, will continue	Orange	_	No
Memory error	—	Red	_	No
System error	System error Please contact your dealer	Red	Red	No
Low-voltage error	L Voltage Error Please contact your dealer	Red	Red	No
High-voltage error	H Voltage Error Please contact your dealer	Red	Red	No
Waiting for macro to execute *1	Press a key -> Executing macro	Flashing green	_	No

Notes:

\*1: LED may light while macro is executing.

\*2: Buzzer sounds when MSW5-1 (buzzer setting) is set to ON. Note, however, that some combinations of settings of MSW5-1 and MSW10-6 may change the condition in which buzzer sounds.

### 4.8 Paper Jams

Take care to avoid obstruction of the paper outlet and paper jamming around the outlet during printing.

If paper cannot get out of the printer, it can roll up on the platen inside the printer and cause an error.

If the paper wraps around the platen, open the paper cover and carefully pull the paper out.

### 4.9 Serial Interface Operation Precautions

While using the serial interface, certain printing conditions can cause white stripes in printouts and feed failure. To avoid these problems, change memory switch settings as described below.

- 1. Change MSW7-1 (serial baud rate) to a faster baud rate setting.
- 2. Change MSW10-2 (print speed) to a lower level.

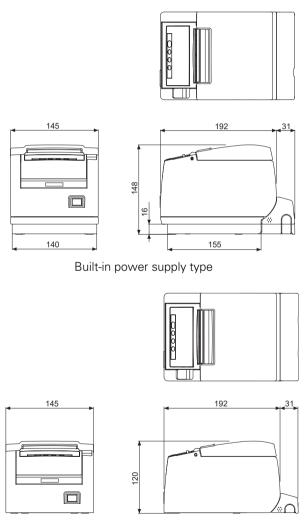
# 

Depending on the serial interface transmission speed, ambient temperature, print data duty, and other factors, changing the above settings may not eliminate the problems.

# 5. OTHER

## 5.1 External Views and Dimensions

(Unit: mm)



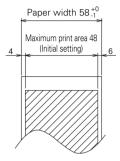
AC adapter type

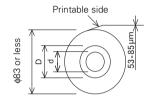
## 5.2 Printing Paper

Use the paper shown in the following table or paper of the same quality.

Paper type	Product name
	Nippon Paper TP50KR-2Y, TP50KJ-R, TL69KS-LH, TF50KS-E2D Oji Paper PD150R, PD160R, PD160R-63 Mitsubishi Paper Mills HP220AB-1, P220AB Koehler KT48-FA

(Unit: mm)





Paper	53-85
thickness (µm)	
Core inner diameter d	φ12
(mm)	
Core outer	φ18
diameter D (mm)	



Use thermal paper that is wound as follows:

- Not creased and fits tight to the core.
- Not folded.
- Not glued to the core.

Rolled with the printable side out.

### 5.3 Manual Setting of Memory Switches

Memory switches are used to set various printer settings. The memory switches can be set manually (set by hand on the printer) or by commands. This section explains how to perform manual settings.

Memory switch settings are done in memory switch setting mode or virtual DIP switch setting mode. In the memory switch setting mode, you can set the values for MSW1 to MSW13. In the virtual DIP switch setting mode, you can set the values for MSW1 to MSW6.

For information on how to set the memory switches using commands, please refer to the Command Reference.

#### Outline of procedure

- 1. Enter memory switch setting mode or virtual DIP switch setting mode.
- 2. Change settings that need to be changed.
- 3. Go to the save settings menu.
- 4. Save settings.

#### Memory switch setting mode

While "Online" is displayed, press and hold button 4 (MENU) for at least two seconds. Or, while paper is loaded, press and hold button 3 and then turn on the power.

Enter memory switch setting mode.

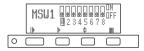


- Press button 1 ( ) or button 2 ( ) to select items to set.
- Press button 3 ( $\mathbf{\nabla}$ ) to select a value for the selected item.
- Press button 4 ( ) to go to the save settings menu.

• To set all the memory switches to the factory settings: Press button 1 until "Factory Setting /Set" appears (after MSW13-6). Press and hold button 4 for at least two seconds. All memory switches change to the factory settings.

### Virtual DIP switch setting mode

While paper is loaded, press and hold button 2 while turning the power on. Enter virtual DIP switch setting mode.



- Press button 1()) to select a memory switch number. (Switches cycle in the following order:  $MSW1 \rightarrow MSW2 \rightarrow ... \rightarrow MSW6 \rightarrow MSW1$ )
- Press button 2 () to move from switch 1 towards switch 8. (The selection loops from 8 back to 1.)
- Press button 3 (♦) to change between ON and OFF.
- Press button 4 ( ) to go to the save settings menu.

### Save settings menu

	Sav	/e?	
		637033	
0			

- Press button 1 (YES) to save the settings and return to the "Online" display.
- Press button 2 (NO) to not save the settings and return to the "Online" display.
- Press button 3 (BACK) to return to the previous mode.

The function of each memory switch is shown in the following table. (Shaded values are factory settings.)

Function	OFF	ON
Power ON Info	Valid	Not Send
Buffer Size	4K bytes	45 bytes
Busy Condition	Full/Err	Full
Receive Error	Print"?"	No Print
CR Mode	Ignored	LF
Reserved	Fixed	-
DSR Signal	Invalid	Valid
Init Signal	Invalid	Valid
Reserved	_	Fixed
Auto Cutter	Invalid	Valid
Spool Print	Invalid	Valid
Full Col Print	LineFeed	WaitData
Resume aft PE	Next	Тор
Reserved	Fixed	-
Reserved	Fixed	-
PNE Sensor	Valid	Invalid
Resume Cttr Err	Valid	Invalid
	Valid	Invalid
0 1	Valid	Invalid
	Fixed	_
		_
		_
		Valid
	Close	Command
Reserved	Fixed	-
Reserved	Fixed	-
Feed&Cut at TOF	Invalid	Valid
Reserved	Fixed	-
Partial Only	Invalid	Valid
Buzzer	Valid	Invalid
Line Pitch	1/360	1/406
USB Mode	Virtual COM	Printer Class
Reserved	Fixed	_
Reserved	Fixed	_
		Speed
Reserved	Fixed	
Reserved	Fixed	_
	Buffer Size Busy Condition Receive Error CR Mode Reserved DSR Signal Init Signal Init Signal Reserved Auto Cutter Spool Print Full Col Print Resume aft PE Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved R	Buffer Size4K bytesBusy ConditionFull/ErrReceive ErrorPrint"?"CR ModeIgnoredReservedFixedDSR SignalInvalidInit SignalInvalidInit SignalInvalidSpool PrintInvalidSpool PrintInvalidFull Col PrintLineFeedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedResume Cttr ErrValidParallel 31 PinValidReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixedReservedFixed <td< td=""></td<>

Switch no.	Function	OFF	ON
MSW6-1	Act. For Driver	Invalid	Valid
MSW6-2	Character Space	Invalid	Valid
MSW6-3	USB Power Save	Invalid	Valid
MSW6-4	Reserved	Fixed	-
MSW6-5	Reserved	Fixed	-
MSW6-6	Reserved	Fixed	-
MSW6-7	Reserved	Fixed	-
MSW6-8	Reserved	Fixed —	

Switch no.	Function	Initial setting	Setting value	
* <sup>3</sup> MSW7-1	Baud Rate	9600 bps	1200 bps, 2400 bps, 4800 bps, 9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps	
*3 MSW7-2	Data Length	8bits	7bits, 8bits	
MSW7-3	Stop Bit	1bit	1bit, 2bits	
*3 MSW7-4	Parity	NONE	NONE, EVEN, ODD	
*3 MSW7-5	Flow Control	DTR/DSR	DTR/DSR, XON/XOFF	
MSW7-6	DMA Control	Valid	Valid, Invalid	
MSW7-7	VCom Protocol	PC Setting	PC Setting, DTR/DSR, XON/XOFF	
MSW8-1	Print Width	576dots	640 dots, 576 dots, 546 dots, 512 dots, 436 dots, 432 dots, 420 dots, 390 dots, 384 dots, 360 dots	
MSW8-2	Paper Type	1 Color Normal	1 Color Normal, 2 Color Normal	
MSW8-3	Top Margin	11mm	3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm	
MSW8-4	Line Gap Reduce	Invalid	Invalid, 3/4, 2/3, 1/2, 1/3, 1/4, 1/5, ALL	
MSW8-5	Reduced Char V/H	100% / 100%	100% / 100%, 75% / 100%, 50% / 100%, 100% / 75%, 75% / 75%, 50% / 75%	
MSW8-6	Auto Side Shift	Invalid	Invalid, 1 dots, 2 dots, 3 dots, 4 dots, 5 dots, 6 dots, 7 dots	
MSW9-1	Code Page	PC 437	PC 437, Katakana, PC 850,858, PC 860, PC 863, PC 865, PC 852, PC 866, PC 857, PC737, PC862, WPC1252, WPC1258, WPC1251, WPC1253, WPC1255, Space page, PC 864, ThaiCode11 1Pass, ThaiCode11 3Pass, ThaiCode18 1Pass, ThaiCode18 3Pass, TCVN-3	
MSW9-2	Int'Char Set	USA	USA, France, Germany, England, Denmark, Sweden, Italy, Spain, Japan, Norway, Denmark 2, Spain 2, Latin America, Korea, Croatia, China, Vietnam	
MSW9-4	Multi-byte Char	Invalid	JIS(JPN), SJIS:CP932 (JPN), SJIS:X0213(JPN), GB18030(CHN), KS Hangul(KOR), EUC Hangul(KOR), BIG5(TWN), Invalid	
MSW9-6	LCD Language	English	English, Français, Deutsch, Italiano, Español, Japanese, Chinese	
MSW9-7	LCD Ext Char	Valid	Invalid, Valid	
MSW9-8	LCD Auto Off	Never	Never, 30seconds, 5minutes	

Switch no.	Function	Initial setting	Setting value	
MSW10-1	Print Density	100 %	70 %, 75 %, 80 %, 85 %, 90 %, 95 %, 100 %, 105 %, 110 %, 115 %, 120 %, 125 %, 130 %, 135 %, 140 %	
MSW10-2	Print Speed	Level 9	Level 1, Level 2, Level 3, Level 4, Level 5, Level 6, Level 7, Level 8, Level 9	
MSW10-3	ACK Timing	Before Busy	Before Busy, Same Period, After Busy	
MSW10-4	Old command	Invalid	Invalid, CBM1, CBM2	
MSW10-5	Buzzer Event	Not by C.Open	All Event/Error, Not by C.Open, Not by C.Open/PE	
MSW10-6	Buzzer Sound	Tone 2	Tone 1, Tone 2, Tone 3, Tone 4	
MSW10-7	Key Lock	Invalid	Invalid, Valid	
MSW10-8	LCD Direction	Normal	Normal, Inverted	
MSW13-1	Security/Target	Low/All	Low/All, Mid/All, Mid/Paired only, Hi/All, Hi/Paired only	
MSW13-5	BT Device Scan	Discoverable	No Response, Discoverable	
MSW13-6	Auto Reconnect	Valid	Invalid, Valid	

Notes:

\*1: If print data is very dense, the print head is hot, data transmission is slow, or some other conditions, the motor and printing may occasionally stop which causes white stripes in the printout. To print high-density data, set MSW2-3 (Spool Print) to ON to reduce striping, although this increases the time before printing starts.

For a serial interface, increase the transmission speed to prevent the motor from stopping.
\*2: When density priority is set, the maximum print speed is 400 mm/second.
When high-speed priority is set, the maximum print speed is 500 mm/second.
Switching to high-speed priority may affect print quality. If readability or bar code reading accuracy is a priority for your operations, return the setting to density priority.
Furthermore, from the start of printing until 1000 mm, printing is done at the maximum print speed of 500 mm/second, but from 1000 mm and further, the maximum print speed changes to 400 mm/ second

\*3: The values for memory switches MSW7-X are only effective when DIP switch no. 1 is set to OFF.

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