Thermal Printer μ TP-58E (Panel Type) μ TP-58EB (Bulk Type) **Instruction Manual**

INTRODUCTION

Thank you very much for your continued favor. Please read this manual attentively to let this equipment serve you for as long as possible. Keep this manual carefully.

SAFETY PRECAUTIONS

The following symbols are used in this Instruction Manual in order to make use of the printer properly and prevent the printer from being damaged.

Follow the instructions marked with the symbol.

/ WARNING	Failure to follow the guidelines marked with this symbol could result in severe
ZIZWAKNING	personal injury or death.
CAUTION	Failure to follow the guidelines marked with this symbol could result in minor
ZiZovo Hor	personal injury or product and/or peripheral damage.



The symbol \triangle indicates caution(including danger and warning). The example on the left indicates warning or caution.



The symbol O indicates prohibition.



The example on the left means prohibition of disassembling. The symbol indicates requirement or what must be done.



The example on the left means "pull the power plug out of the outlet."

WARNING



DO NOT use an AC adapter other than that which is specified. Doing so may cause fire leading to serious



DO NOT bend the power cable forcibly, or place heavy object on the cable because it might damage the cable and cause fire or electric shock.If the power cable is damaged, discontinue use and replace it



Never disassemble the printer and the AC adapter. Failure to follow this instruction may cause overheating or burning of the printer or the AC adapter, or an electric shock, which may lead to fires or accidents.

\CAUTION



DO NOT drop any metallic objects or liquids, such as water or coffee, into the printer.



Never use the printer in a place of extreme humidity or any place where it can possibly be splashed by any liquids. If any liquids get into the printer, it could lead to fire, electric shock, or other serious accidents



Never touch the thermal head immediately after printing because it becomes very hot. Make sure that the thermal head is cool before setting papers or cleaning the thermal head.



Be sure to hold the connector part of the power cable or interface cable when disconnecting the cable. Pulling on the cable portion may cause it to fray and break



Power OFF the printer in any of the following cases:

- ◆The printer does not recover from an error.
- Smoke, strange noise or smells erupt from the printer.
- A piece of metal or any liquid touches the internal parts or slot of the printer.

Using the printer in any manner other than for which it was designed may cause accidents or fire.

1. OPERATING PRECAUTIONS

Observe the following for safe and trouble-free operation:

Notes on use

- Do not drop or hit the printer.
- Turn off the power switch, and keep the AC adapter removed from the receptacle when the equipment is not

Notes on treatment of thermal papers

- Store the papers in a dry, cool and dark place.
- Do not rub the papers with hard substance.
- Keep the papers away from organic solvent.
- Do not let the papers touched with vinyl chloride film, eraser or adhesive tapes for hours.
- Do not put the papers on diazo print or wet copy that is just copied.
- Use dedicated thermal papers only.

Notes on installation

- Install the printer on a stable surface.
- Avoid such places with: Unstable surface. Strong vibration.
- Direct sunlight, Full of dust, Corrosive gas, Excessively high or low temperature

2. PREPARATION

Instruction Manual

2.1 Unpacking

Check whether a complete set is present:

- Main body 1 unit Thermal papers 1 roll
- μ TP-58E (Panel Type) includes next ones, too.

1 volume

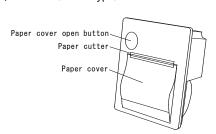
2 pieces

- Main body fitting 1 unit
- Fitting spacer 0.2mm thick 1 sheet Fitting spacer 0.5mm thick 2 sheet
- ★ Orders for thermal papers will receive prompt attention by our company.

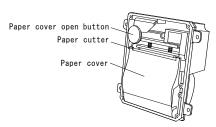
2.2 Components/part names

Fitting mounting screw

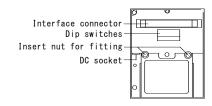
μ TP-58E (Panel Type)



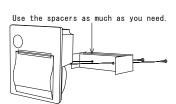
μ TP-58EB (Bulk Type)



Back face



2.3 How to install the main body fitting



Use the spacers depending on the fitting panel thick like next table. If not, the body will deformative, and it will be hard to open the paper cover, and the printing quarity will be down. (When the fitting panel thick is over 2.2mm, it will be hard to fit the screws.)

Pane I	Spacer	Pane I	Spacer thick
thick	thick	thick	
1.0	None	1.7~1.8	0.5 and 0.2
1.2	0. 2	2. 0	1.0
1.5~1.6	0.5	2. 2	1.0 and 0.2

The screw torque is 49cN·m(5kgf·cm).

(unit:mm)

3.1 Connecting AC adapter

- ①Insert the DC plug of the AC adapter into the DC socket
- 2 Insert the AC plug of the AC adapter into the receptacle.

[Attention!]

Do not touch the tip end of the DC plug. When disconnecting the AC adapter, disconnect the AC plug from the receptacle and then DC plug.

3.2 Setting papers

Opening paper cover

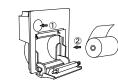
Press the paper cover open button.



Handle the paper cutter carefully not to cut your hand.

Setting papers

- ①Press the paper cover open button, and open the paper
- 2)Set a paper roll as shown in the figure.
- 3 Close the paper cover by pressing the both end of the cover, with the tip end of the paper emerging from the





Wipe off the soiling on the printer surface with a dry soft cloth or a cloth with a weak neutral detergent. After that, wipe the printer with a dry cloth.

[Attention!]

- Do not use volatile chemical as thinner or benzine.
- Do not get printer's inside wet with water.

3.4 Test print

In the test print mode, characters printable with the printer are output(ANK,Kanji). Turning power ON with FEED_IN signal kept low triggers the test print.

3.5 Hex dump

In hex dump mode, computer data is output in hexadecimal numbers and characters. Set the dip switch No.7 on, No.8 off, and power on, then enter hex dump mode.

3.6 Function set

Printer functions can be set with the dip switches.

The	indicates shipment mode.				
No.	Function	OFF	ON		
1~4	Interface	See to	able 1		
5	Bit length (Serial)	8B	BIT		
	Data Code (Parallel)	Katakana	PC437		
6	Flow (Serial)	RTS/CTS	Xon/Xoff		
	Non-use (Parallel)	1	-		
7~8	Command	See table 2			
9	Direction	Upright	Inverted		
0	Test pin	Normal Mode	Prohibition		

Table 1. Interface mode (×: OFF O: ON)

Method	Baud	Parity	1	2	3	4
Serial	38400	None	×	×	×	×
	19200		0	×	×	×
	9600		×	0	×	×
	4800		0	0	×	×
	2400		×	×	0	×
	38400	Odd	0	×	0	×
	19200		×	0	0	×
	9600		0	0	0	×
	4800		×	×	×	0
	2400		0	×	×	0
	38400	Even	×	0	×	0
	19200		0	0	×	0
	9600		×	×	0	0
	4800		0	×	0	0
	2400		×	0	0	0
Parallel	_	_	0	0	0	0

Table 2. Command mode (x : OFF O : ON)

2010 21 00111114114 111040 (
Mode	7	8
Mode1(20 colm. μ TP-5820 compatible)	0	0
Mode2(24 colm. μ TP-5824 compatible)	×	0
Mode3(32 colm. ESC/POS conformed)	X	×
Hex dump mode	0	×

You can check the setting functions by Test Print.

UTP-58E TEST PRINT	г
INTERFACE	= PARALLEL
BAUD RATE	= 9600bps
PARITY	= NON
BIT LENGTH	= 8BIT
FLOW CONTROL	= RTS/CTS
COMMAND MODE	= MODE 3
UPRIGHT/INVERT	= UPRIGHT

3.7 Connecting the Printer

- Select the correct interface cable for the type of computer.
- Use a flat cable no more than 50 centimeters long. (We will prepare the option cable.)

4 SPECIFICATIONS

4.1 Connector pin layout

 Interface connector pin layout Connector used:XG4A-4032(Omron)

				,
39		_	00	1
40	00		00	2
40[

		(Nam	e indicates Active Low.)
No.	Signal name	Direc	Function
1	STROBE	In	Data capture
2~9	DATA0~7	In	High:1,Low:0
10	ACK	Out	Acknowledge
11	BUSY	Out	Busy to read
12	PF	Out	Paper empty
13	SEL OUT	Out	Online High
14	ERROR	Out	Error
15	RESET	In	Reset
_	TxD		
16		Out	232C Data send
17	RxD	In .	232C Data rec
18	RTS	Out	232C Request
19	CTS	In	232C Clear
20	N.C	_	N.C
21	N.C	_	N.C
22	GND	_	GND
23	GND	_	GND
24	N.C	_	N.C
25	FEED_IN	In	Feed signal
26	GND	_	GND
27	SEL_LED+	Out	SEL LED on +
28	SEL_LED-	Out	SEL LED on -
29~34	V+	_	Power (+)
35~40	V-	_	Power (-)

-Connect to all the No.29~34 and No.35~40 pins, when you supply the power into V+ and V- pins. (To avoid voltage drops.)



When you supply the power through the DC socket, the power outputs from the V+ and V- pins, so never supply the power into V+ and V- pins, and never short V+ and V- pins.

 DC socket pin layout Connector used:HEC0470-01-630(Hosiden) Polarity:Center plus

L	NO.	Signal name	Direc	Function
I	1	DC+9V	_	Power(+)
I	2	GND	1	Power(-)
-				

-You can also supply the power through the interface connector pins, instead of DC socket pins.

4.2 General specifications

Command mode:

Mode1 (µTP-5820 compatible)

Mode2 (μ TP-5824 compatible) Mode3 (ESC/POS conformed)

Print mode: Thermal line dot print Data entry:

When parallel

Data input: Eight-bit parallel Handshake: STROBE, BUSY and ACK

When serial

Data input: RS-232C

(2400bps~38400bps)

Data control: RTS/CTS, Xon/Xoff Max. printing speed: 20 mm/s max. (when 5V)

50 mm/s max. (when 9 V)

Paper width: 58 mm

Printing width: Mode1 34.75mm Mode2 41.75mm

Mode3 48mm -Printed in center of paper

Power supply:

By the interface connector 5VDC~9VDC, 3A

By the DC socket

AC adapter dedicated to the printer (option)

Product No.: BLS-120W Input: 100~240VAC (50/60Hz)

Output: 9.0VDC, 3.0A AC code of AC adapter (option)

Product No.: ACS-120A (for Japan)

ACS-100U (for U.S.A)

ACS-100G (for Europe)

Outer dimensions (W × H × D excluding projections)

 μ TP-58E (Panel Type) 101mm × 116mm × 61mm

μTP-58EB (Bulk Type)

95mm × 110mm × 61mm

 μ TP-58EB (Bulk Type) Approx. 230g

Mass: (Excluding AC adapter and roll paper) μ TP-58E (Panel Type) Approx. 230g

Operating environment

Temperature: 0 to +50°C Humidity: 30 to 80%RH (non-condensing)

Storage environment Temperature: −20 to +60°C

Humidity: 20 to 85%RH (non-condensing)

Thermal papers used Product No.: P-58-30 (10rolls per box)

Paper width: 58mm

Outer diameter of roll paper: 50mm Receive buffer: 4096 bytes

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O Information in this document is subject to change without prior notice due to remodeling

(08 2019)