

MODEL: TRP100-III Receipt Printer User's Manual

A software tool is available to configure the printer settings on AURES technical website: www.aures-support.fr				
Disposal of Old Electrical&Electronic Equipment(Applicable in the European Union and other European countries with separate collection systems)				
This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronics equipment. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.				







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UK

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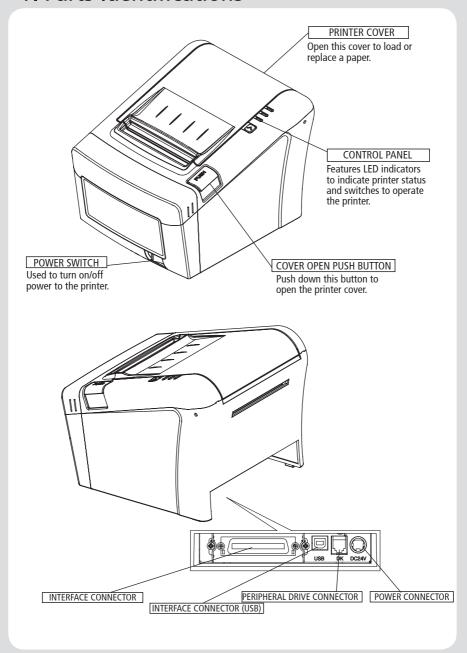
Um unsereneuesten Treiber, Utilities und Konfigurationsratschläge zu Ihren Produkten herunterzuladen besuchen Sie bitte unsere technische Support-Website:

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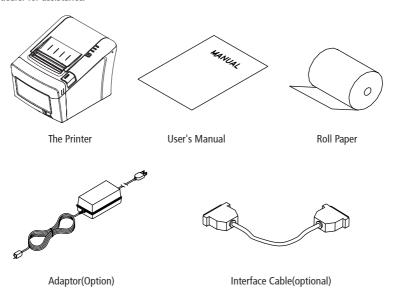
1. Parts Identifications



2. Setting Up the Printer

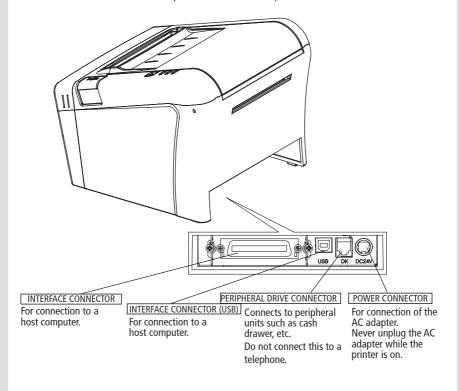
2-1. Unpacking

Your printer box should include these items. If any items are damaged or missing, please contact your dealer for assistance.



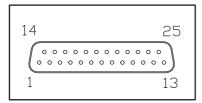
2-2. Connecting the Cables

All cables connect to the connector panel on the back of the printer which is shown below:



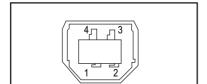
Before connecting any of the cables, make sure that both the printer and the computer are turned off.

2-2-1. Interface Connector



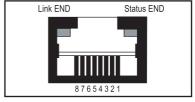
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<D-SUB 25 Female Serial>



<USB "B" Type>

<Centronics Parallel>



<Ethernet>

USB Interface

Pin	Signal	1/0	Description
1	+5V	-	+5V
2	DATA-	-	Printer transmit data line
3	DATA+	-	Printer transmit data line
4	GND	-	System Ground

Serial Interface

PIN	SIGNAL	I/O	DESCRIPTION	
2	TxD	Output	Printer transmit data line RS-232C level	
3	RxD	Input	Printer receive data line RS-232C level	
4, 20	DTR	Output	Printer handshake to host line RS-232C level	
6	DSR	Input	Data Send Ready	
1, 7	GND	-	System Ground	

Centronics Parallel Interface

PIN	SIGNAL	1/0	DESCRIPTION
1	STROBE-	Input	Synchronize signal Data received
2~9	DATA0~7	Input/Output	Data bit Transmitted 0~7
10	ACK-	Output	Data receiving completed.
11	BUSY	Output	Impossible to print of data receiving.
12	PE	Output	Paper empty
13	SELECT	Output	Printer status for ON/OFF line
14	AUTO FEED-	Input	Paper auto feed signal
15	GROUND	-	System ground
16	GROUND	-	System ground
17	NC	-	
18	LOGIC-H	-	+5V
19~30	GROUND	-	System ground
31	INIT-	Input	Initialize
32	ERROR-	Output	Printer error
33	GROUND	-	System ground
34	NC	-	
35	+5V	-	+5V
36	SELLECT IN-	Input	Printer select signal

Ethernet Interface

PIN	SIGNAL	I/O
1	Data Out +	Output Data +
2	Data Out -	Output Data -
3	GND	Ground
4	Data IN +	Input Data +
5	Data IN -	Input Data -
6	N.C	
7	N.C	
8	N.C	

2-2-2. Cash Drawer Connector

The printer can operate two cash drawers with a 6 pin RJ-11 modular connector.

The driver is capable of supplying a maximum current of 0.1A for 510ms or less when not printing.



PIN	SIGNAL	DESCRIPTION
1	Signal GND	-
2	Drawer kick-out drive signal 1	Output
3	Drawer open/close signal	Input
4	+24V	-
5	Drawer kick-out drive signal 2	Output
6	Signal GND	-

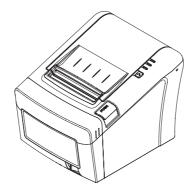
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2-3. Loading the Roll Paper

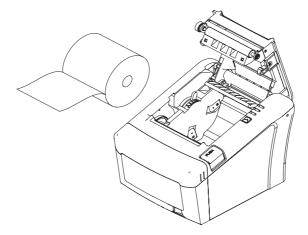
Notes: Be sure to use paper rolls that meet the specifications. Do not use paper rolls that have the paper glued to the core because the printer cannot detect the paper end correctly.

♣Turn off power switch.

- 1. Make sure that the printer is not receiving data; Otherwise, data may be lost.
- 2. Open the paper roll cover by pushing down the cover open push button.



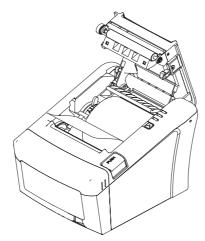
- 3. Remove the used paper roll core if there is one inside.
- 4. Insert new paper roll as shown.



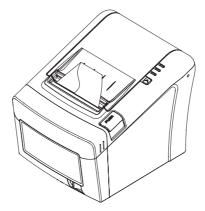
5. Note the correct direction that the paper comes off the roll:



6. Pull out a small amount of paper as shown. Then, close the cover.



7. Tear off the paper as shown.

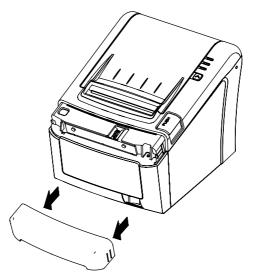


♣ CAUTION:

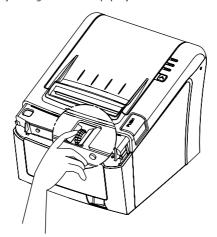
When the paper cutter is jammed, the top cover might be stuck closed. In this case, repeat power on and off several times.

If the top cover is still stuck, please follow the steps to release the paper jam.

- 1. Make sure the printer is turned off.
- 2. Take out cutter cover as shown.

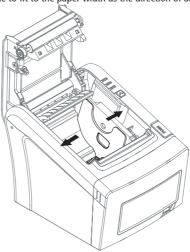


3. Turn the knobble with your finger to clear the paper jam at cutter.

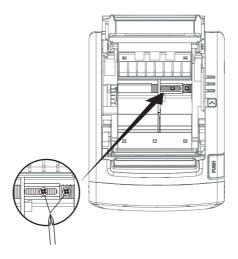


2-4. Adjustment of paper width

1. Please adjust the Paper Guide to fit to the paper width as the direction of arrow.



2. Tight the screw after adjusting the Paper Guide.



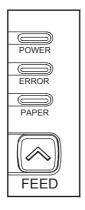
3. Pull the edge of paper once the paper roll is installed correctly and close the Paper Cover.

3. Control panel and other functions

3-1. Control panel

You can control the basic paper feeding operations of the printer with the button on the control panel. The indicator lights let you to monitor the printer status.

Control Panel



Buttor

The button can be disabled by the ESC c 5 command.

Press the FEED button once to advance paper one line. You can also hold down the FEED button to feed paper continuously.

3-2. Error indicators

This section explains the different patterns signaled by the two LED indicators located on the top cover of the printer.

STATUS	PAPER	ERROR	POWER	REMARKS	
SIAIUS	RED	RED	GREEN	KEIVIARKS	
Power off	OFF	OFF	OFF	Normal power is not supplied to the printer	
Power on	OFF	OFF	ON	Normal power is supplied to the printer	
On line	OFF	OFF	ON	Normal error-free mode	
Cover open	OFF	ON	ON	Close cover	
Paper empty	OFF	ON	ON	Insert new paper roll	
Paper near end	ON	OFF	ON	Paper is low	
Test mode	OFF	OFF	ON	Ignored error led	

4. Self Test

The self-test lets you know if your printer is operating properly. It checks the control circuits, printer mechanisms, print quality, ROM version and DIP switch settings.

This test is independent of any other equipment or software.

Running the self test

- 1. Make sure the printer is turned off and the printer cover is closed properly.
- 2. While holding down the FEED button, turn on the printer using the switch on the front of the printer to begin the self-test. The Self Test prints the printer settings, cuts the paper, then pauses: (Error LED On)

Self-test printing Please press the PAPER FEED button.

- 3. Press the FEED button to continue printing.
 The printer prints a pattern using the built-in character set.
- 4. The self test automatically ends and cuts the paper after printing the following.

*** Completed ***

The printer is ready to receive data as soon as it completes the self-test.

5. Hexadecimal Dump

This feature allows experienced users to see exactly what data is coming to the printer. This can be useful in finding software problems.

When you turn on the hex dump function, the printer prints all commands and other data in hexadecimal format along with a guide section to help you find specific commands.

TTo use the hex dump feature, follow these steps

- 1. Please turn printer off..
- 2. Please turn printer on while press down "Feed" button.
- 3. Please press down "Feed" button more than 3 seconds after print out first page of self test.
- 4. Now printer had entered into Hexa dump mode.
- 5. Run any software program that sends data to the printer. The printer prints "Hexadecimal Dump" and then all the codes it receives in a two-column format. The first column contains the hexadecimal codes and the second column gives the ASC II characters that correspond to the codes.

Hexadecimal Dump

1B 21 00 1B 26 02 40 40 .!..&.@@

1B 25 01 1B 63 34 00 1B .%.. c4 ..

41 42 43 44 45 46 47 48 ABCDEFGH

☐ A period (.) is printed for each code that has no ASC || equivalent.

6. Turn off the printer

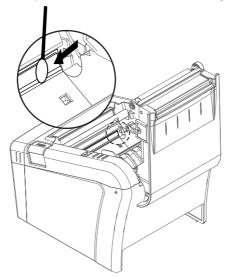
7. Turn on the printer.

6. Printer cleaning

If the interior of the printer is dusty, printing quality can be lowered. In this case, follow the instructions below to clean the printer.

♣Note:

- 1. Make sure to turn the printer power off prior to cleaning
- 2. Regarding print head cleaning, as the print head is very hot during printing, turn off the printer power and wait approximately 10 minute before start.
- 3. When cleaning the print head, take care not to touch the heated part of the print head. The print head subject to be damaged by static electricity.
- 4. Take care not to allow the print head to become scratched and /or damaged in any way.



- Use an applicator swab moistened with an alcohol solution to clean the print head and remove any dusts.
- 2. Once the cleaning is completed, insert paper roll into the printer few minutes later and close the printer cover.

♣ Preventing Overheating

To prevent the motor from overheating, continuous operation of the printer should be 1.5 m or less in print length. Set the pause time for 30 seconds or more than it.

7. Specifications

♣ Important!

When connecting or disconnecting the power supply from the printer, be sure that the following cautions are observed.

Use a power supply (Limited Power Supply) of DC 24V±10% and more than 1.75A. Be careful about installing the printer in an area where there is electrical noise. Take the appropriate measure to protect against electrostatic AC line noise, etc.

7-1. General Specifications

(1) Printing Method Direct line thermal printing.

(2) Print speed 160mm/sec

(3) Dot density (Hor / Ver) 180 DPI X 180 DPI

(4) Dot Pitch 0.141mm X 0.141mm

(5) Printing Width Max 72mm (512 dots)

(6) Number of print columns.

Font "A"	Font "B"
42 columns	56 columns

(7) Roll paper Refer to chapter 2 for details on the recommended roll Paper.

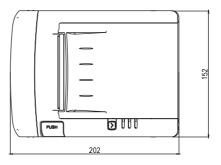
Paper width: Default 79.5 ±0.5mm

(Min.: 50mm ~ Max.: 82.5mm)

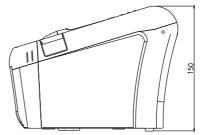
Roll diameter: Max. ø80mm

(8) Weight 1.7 Kg

(8) Overall dimension







7-2. Auto Cutter Specifications

(1) Cutting Frequency Max. 30 cuts per minute

(2) Thickness of paper $0.065 \sim 0.09 \text{ mm}$

(3) Cutter Life 1.5 million cuttings

(if the paper thickness is between 65 and 80µm)

7-3. Interface

RS232 Serial Interface, Centronics Parallel Interface(IEEE1284), USB Interface, Ethernet Interface(100Mbps)

7-4. Electrical Characteristics

(1) Input Voltage DC 24V \pm 10%

(2) Current Consumption Operating: Approx. 1.5 A (at ASC || printing)

Peak: Approx. 10 A

(at print duty 100%, For 10 seconds or less)

Stand-by: Approx. 0.03 A

(3) Power Connector

PIN3 : GROUND——PIN1 : 24V DC
PIN2 : No CONNECTION——

7-5. Environmental Requirements

(1) Operating

Temperature 5°C to 40°C

Humidity 10% to 90% RH (without condensation)

(2) Transport/Storage (except paper)
Temperature -20°C to 60°C

Humidity 10% to 90% RH (without condensation)

7-6. Reliability

(1) MCBF 50 million lines (based on an average printing rate of 12.5% with paper

thickness in the range 65µm to 75µm)

35 million lines (based on an average printing rate of 12.5% with paper

thickness in the range 76µm to 150µm)

(2) Head Life 100 million pulses, 150Km

(3) Cutter Life 1.5 million cuttings (if the paper thickness is between 65 and 80mm)

7-7. Certification

(1) FCC PART15 CLASS A

(2) UL/cUL (UL 60950-1)

(3) K

(4) CE-EMCD (CE-EMCD Class B should use Parallel shield Cable complied with IEEE-1284 standards)

(5) ENERGY STAR

8. Command List

No.	Command	Function	REMARKS
1	HT	Horizontal tab	
2	LF	Print and line feed	
3	CR	Print and carriage return	
4	FF	Print and return to standard mode(in page mode)	
5	CAN	Cancel print data in page mode	
6	DLE EOT	Real-time status transmission	
7	DLE ENQ	Real-time request to printer	
8	DLE DC4	Generate pulse at real-time	
9	ESC FF	Print data in page mode	
10	ESC SP	Set right-side character spacing	
11	ESC!	Select print mode(s)	
12	ESC \$	Set absolute print position	
13	ESC %	Select/cancel user-defined character set	
14	ESC &	Define user-defined characters	
15	ESC *	Set bit-image mode	
16	ESC -	Turn underline mode on/off	
17	ESC 2	Select default line spacing	
18	ESC 3	Set line spacing	
19	ESC =	Select peripheral device	
20	ESC ?	Cancel user-defined characters	
21	ESC @	Initialize printer	
22	ESC D	Set horizontal tab positions	
23	ESC E	Turn emphasized mode on/off	
24	ESC G	Turn double-strike mode on/off	
25	ESC J	Print and feed paper using minimum units	
26	ESC L	Select page mode	
27	ESC M	Select character font	
28	ESC R	Select an international character set	
29	ESC S	Select standard mode	
30	ESC T	Select print direction in page mode	
31	ESC V	Turn 90° clockwise rotation mode on/off	
32	ESC W	Set printing area in page mode	
33	ESC \	Set relative print position	
34	ESC a	Select justification	
35	ESC c 3	Select paper sensor(s) to output paper-end signals	
36	ESC c 4	Select paper sensor(s) to stop printing	
37	ESC c 5	Enable/disable panel buttons	
38	ESC d	Print and feed paper n lines	
39	ESC p	General pulse	

No.	Command	Function	REMARKS
40	ESC t	Select character code table	
41	ESC {	Turn upside-down printing mode on/off	
42	FS p	Print NV bit image	
43	FS q	Define NV bit image	
44	GS!	Select character size	
45	GS \$	Set absolute vertical print position in page mode	
46	GS *	Define downloaded bit image	
47	GS /	Print downloaded bit image	
48	GS B	Turn white/black reverse printing mode on/off	
49	GS H	Select printing position of HRI characters	
50	GS I	Transmit printer ID	
51	GS L	Set left margin	
52	GS P	Set horizontal and vertical motion units	
53	GS V	Select cut mode and cut paper	
54	GS W	Set printing area width	
55	GS \	Set relative vertical print position in page mode	
56	GS a	Enable/disable Automatic Status Back(ASB)	
57	GS f	Select font for HRI characters	
58	GS h	Set bar code height	
59	GS k	Print bar code	
60	GS r	Transmit status	
61	GS v 0	Print raster bit image	
62	GS w	Set bar code width	
	< Add >		
1	ESC i	Full cut	
2	ESC m	Partial cut	
3	FS!	Set print mode(s) for Kanji characters	
4	FS &	Select Kanji character mode	
5	FS -	Turn underline mode on/off for Kanji character	
6	FS.	Cancel Kanji character mode	
7	FS 2 c1 d1dk	Define user-defined Kanji characters	
8	FS C	Select Kanji character code system	
9	FS S 1 2	Set Kanji character spacing	
10	FS W	Turn quadruple-size mode on/off for Kanji character	

