MODEL : ODP 444

Receipt Printer User's Manual

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

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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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DE
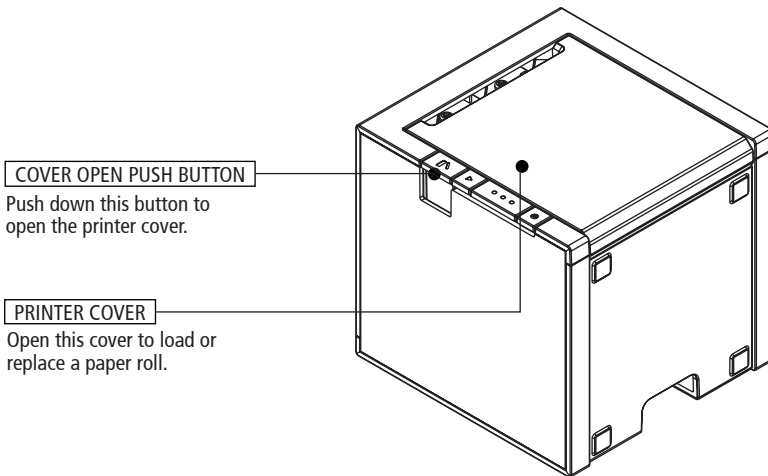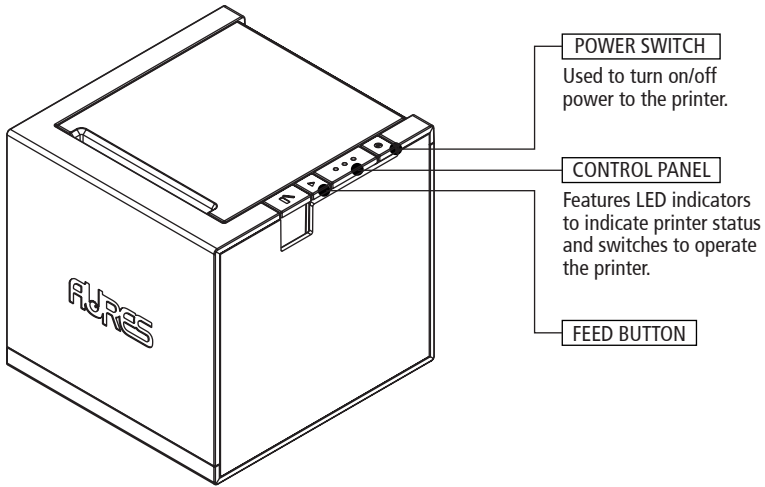Die AURES Gruppe bedankt sich für Ihre Bestellung.

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Table of Contents

1. Parts Identifications

POWER SWITCH
Used to turn on/off
power to the printer.

CONTROL PANEL
Features LED indicators
to indicate printer status
and switches to operate
the printer.

FEED BUTTON

COVER OPEN PUSH BUTTON
Push down this button to
open the printer cover.

PRINTER COVER
Open this cover to load or
replace a paper roll.
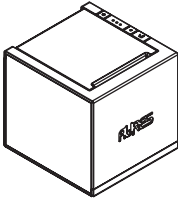
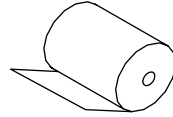# 2. Setting Up the Printer

2-1. Unpacking
Your printer box should include these items. If any items are damaged or missing, please contact your dealer for assistance.

The Printer   CD   Roll Paper
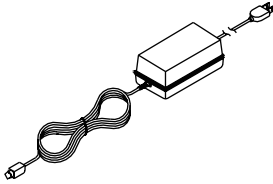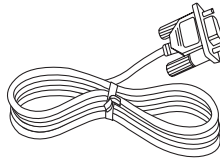
Adaptor   Serial Cable 1   Serial Cable 2
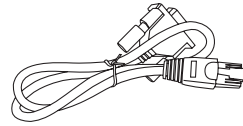
USB Cable

2-2. Connecting the Cables

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

CASH DRAWER CONNECTOR	ETHERNET SWITCH
POWER CONNECTOR	ETHERNET CONNECTOR
USB CONNECTOR	SERIAL CONNECTOR
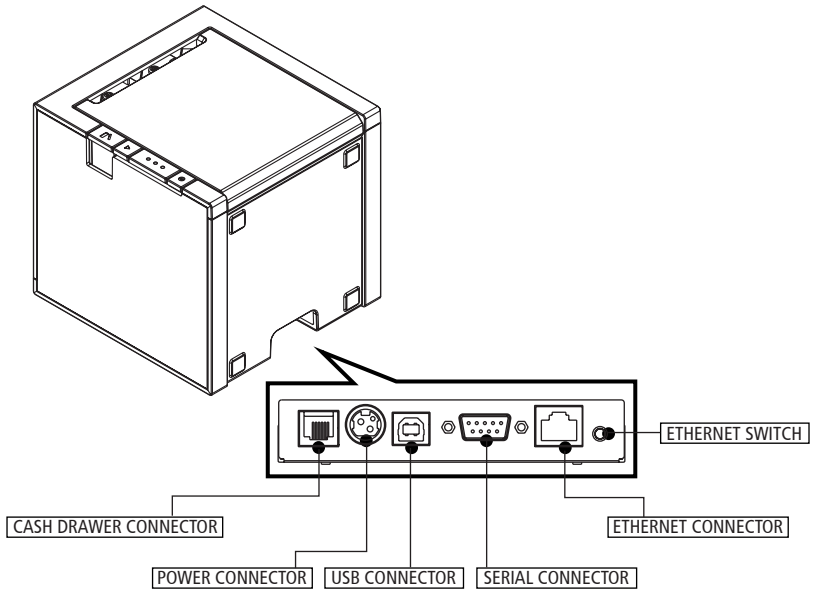
Before connecting any of the cables, make sure that both the printer and the computer are turned off.

2-2-1. Interface Connector
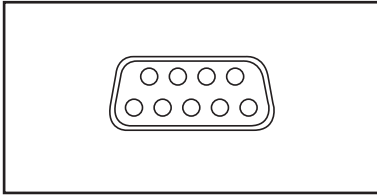
<9 Pin Serial>

<USB "B" Type>

<Ethernet>
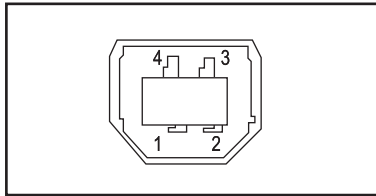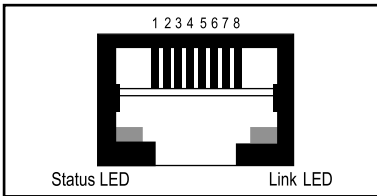
9Pin Serial Interface

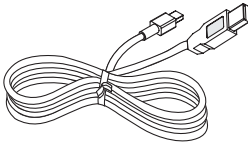| Pin	Signal	I/O	Description
2	RXD	Input	Printer receive data line RS-232C level
3	TXD	Output	Printer transmit data line RS-232C level
4, 7	DTR	Output	Printer handshake to host line RS-232C level
5	GND	-	System Ground
6	DSR	Input	Data Send Ready
1,8,9	NC	-	

USB Interface

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

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

This equipment is indoor use and all the communication wirings are limited to inside of the building.

2-2-2. Cash Drawer Connector

The printer can operate a cash drawer with a 6 pin RJ-11 modular connector.
The driver is capable of supplying a maximum current of 1.0A for 510ms or less when not printing.
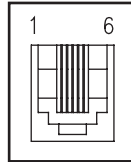
PIN	SIGNAL	DESCRIPTION
1	Signal GND	-
2	Drawer kick-out drive signal 1	Output
3	Drawer open/close signal	Input
4	+24V	-
5	Drawer kick-out drive signal 2	Output
6	Signal GND	-

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 printer cover by pushing down the cover open push button.
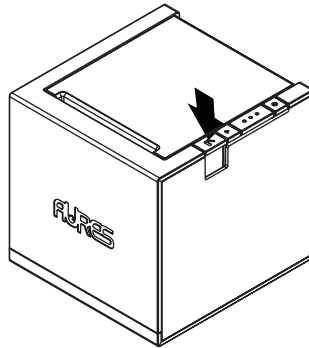
3. Remove the used paper roll core if there is one inside.

4. Insert new paper roll as shown.
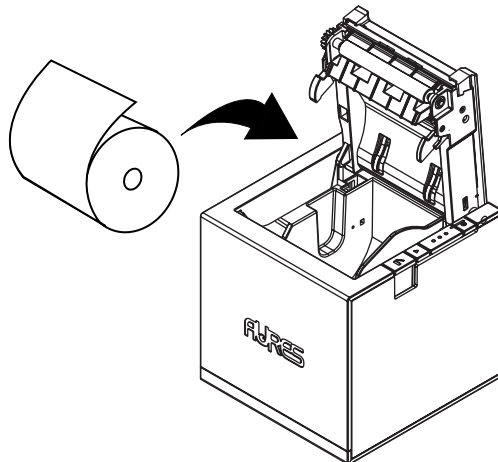
5. Note the correct direction that the paper comes off the roll:

O   **X**
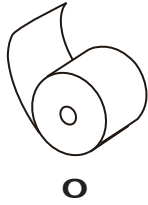
6. Pull out a small amount of paper roll as shown. Then, close the cover.
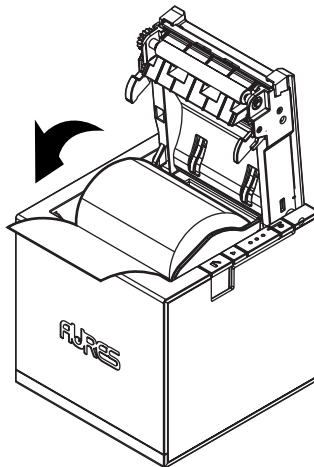
7. Tear off the paper as shown.
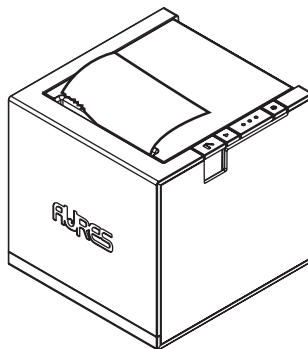
2-4. Jam Error

When the cutter is jammed, please follow the steps below.

Section 1

1. With printer on, press the cover open button to open the printer cover lightly.
   (Printer cover is not fully opened with the cutter protruding.)
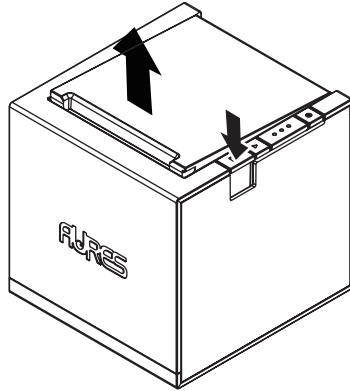
2. Turn the printer off and on, and when the cutter returns to its original position, remove the jammed paper and close the printer cover.
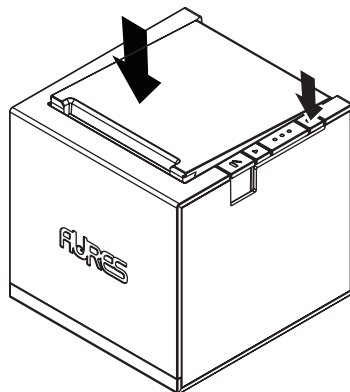
※ **If section 1 does not solve the cutter jam, please follow section 2.**

Section 2

1. Turn off the power.

2. Insert the screwdriver into the hole while pressing the cover open button as shown in the figure.

Hole

OPEN
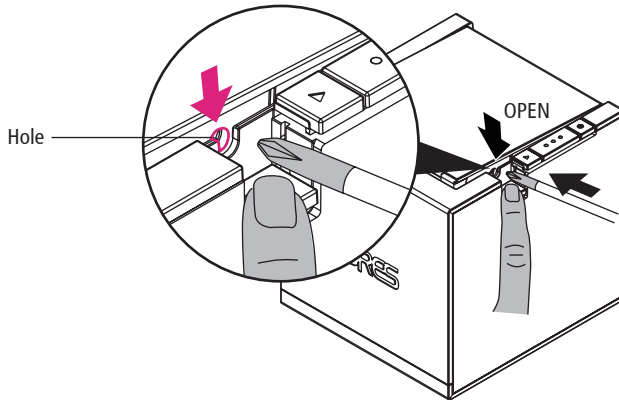
3. Align the screwdriver with the second hole located inside the hole and screw.
   Any direction would be ok.

Second Hole

♣CAUTION:
The second hole is not visible to
the naked eye.
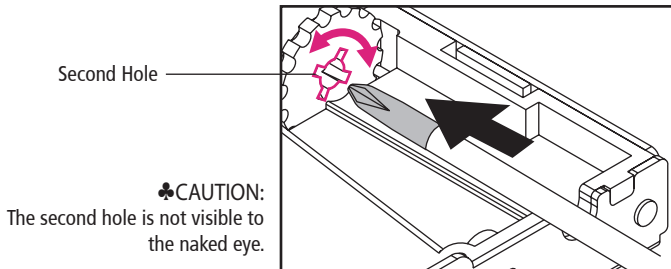
4. Close the printer cover after removing the jammed paper.

CLOSE
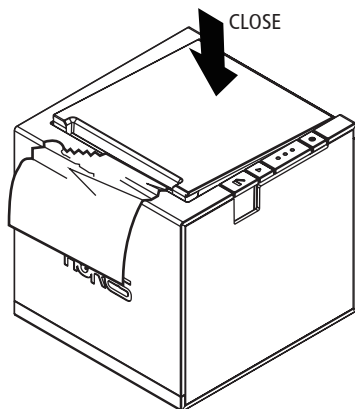
5. Turn On the Power.
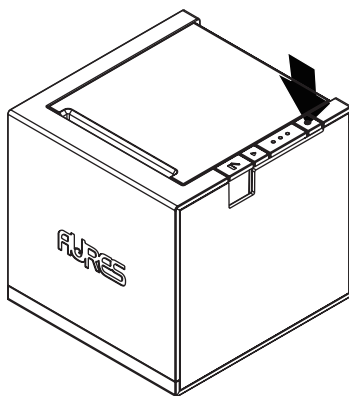
3. Control panel and other functions

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's status.

```
┌──────────────┐
│   ⏻  ●───────┼──── POWER SWITCH
├──────────────┤
│      ●───────┼──── CONTROL PANEL
│  ○ ----------- POWER
│  ○ ----------- ERROR
│  ○ ----------- PAPER
├──────────────┤
│   △  ●───────┼──── FEED BUTTON
└──────────────┘
```
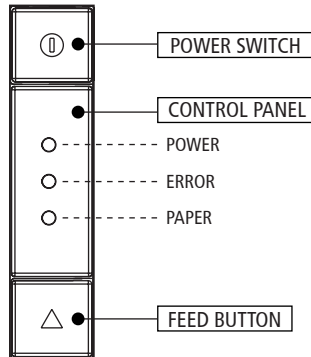
Press the FEED button once to advance paper one line. You can also hold down the FEED button to feed paper continuously.

3-2. Error indicators

STATUS	PAPER	ERROR	POWER	REMARKS
	RED	RED	GREEN	
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 End	ON	ON	ON	Insert new paper roll

4. Self Test

The self-test result indicated whether the printer is operating properly. Also with this, user can check following options or status of the printer.

Control circuit
Printer mechanism
Printing quality
ROM version
Interface setting

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 before performing the self test
2. Turn the printer on holding the FEED button, then the self-test will start. The self-test prints the printer setting value and then prints the following, and pauses. (Error LED On)

SELECT MODE BY BUTTON
1. ASCII PRINT
2. ECO MODE
3. PRINTER SETTING
4. HEXADUMP MODE

3. Press the FEED button consecutively (1~4)

1. ASCII PRINT (press the FEED button once)	Printing test page constructed with ACII code.
2. ECO MODE (press the FEED button twice)	Set the ECO mode for saving paper and power. (Default font type, Reduce paper margin, Density)
3. PRINTER SETTING (press the FEED button triple time)	Set the printer option. (Serial baudrate, Cutting mode, Error beep, Melody)
4. HEXADUMP MODE (press the FEED button quad time)	Printing the HEX value received from the interface

♣Wait for 5~6 seconds if you want to exit. Printer performs a cutting when exiting this mode

4. The printer is ready to receive data after finishing setting.

5. ASCII Print

ASCII PRINT is printing a test page constructed ASCII code. You can able to check the printer works properly with this
The ASCII PRINT 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 ASCII PRINT.

6. ECO Mode

After entering the ECO MODE, the list which can select the ECO option will be printed. Similar like Self Test, you can press the FEED button to select a ECO option.
Once the input performs properly, the printer shows a result and store.

ECO MODE

1. FONT SETTING
2. LINE SPACE SETTING
3. LINE FEED SETTING
4. BARCODE[1D] HEIGHT
5. DENSITY SETTING

6-1. Font

FONT SETTING menu can be change the Font mapping(FONT A / FONT B).
If you did not want other side font, you can disable that.

- FONT A : 12x24
- FONT B : 9x17

FONT SETTING

1. FONT A -> A / FONT B -> B
2. FONT A -> B / FONT B -> B
3. FONT A -> A / FONT B -> A
4. FONT A -> B / FONT B -> A

6-2. Paper Reduce

Reduce menu (Line space, Line feed, barcode[1D] height) was developed for paper saving.

- Line space
  "Line space" means the amount of feed when you intentionally generate newlines.

- Line feed
  "Line feed" means the amount of feed when there is an automatic line break.

- Barcode Height
  "Barcode Height" means the height of the barcode when creating a one-dimensional barcode.

LINE SPACE SETTING

1. NORMAL
2. REDUCE 50%
3. REDUCE 75%
4. REDUCE 90%

LINE FEED SETTING

1. NORMAL
2. REDUCE 50%
3. REDUCE 75%
4. REDUCE 90%

1D BARCODE HEIGHT SETTING

1. NORMAL
2. REDUCE 50%
3. REDUCE 75%
4. REDUCE 90%

6-3. Density

Adjust the print density to save the power consumed by the printer.

SELECT DENSITY

1. NORMAL
2. LOW
3. DARK

7. Printer Setting

Change the printer settings. The options below can also be changed via the Memory Saver.

PRINTER SETTING

1. SELECT BAUDRATE
2. SELECT CUTTING MODE
3. SELECT ERROR BEEP OPTION
4. SELECT MELODY OPTION

7-1. Baudrate

After entering the BAUDRATE MODE, the list which can select the BPS will be printed.
Similar like Self Test, you can press the FEED button to select a BAUDRATE.
Once the input performs properly, the printer shows a result and store.
The printer is ready to receive data as soon as it completes the SELECT BAUDRATEMODE.

SELECT BAUDRATE

1. 4800bps
2. 9600bps
3. 19200bps
4. 38400bps
5. 57600bps
6. 115200bps

7-2. Cutter

Set cutter mode.

SELECT CUTTING MODE

1. PARTIAL CUT
2. FULL CUT

7-3. Error Beep

If the cover is open or there is no paper, the error beep function is activated.
This option allows you to enable / disable the error beep.

SELECT ERROR BEEP OPTION

1. BEEP ON
2. BEEP OFF

7-4. Melody

To DK Port (Cash), Melody box or external buzzer can be connected.

You can activate it from the Melody Setting menu, and the melody will operate after the cutting operation.

- Melody Box : Melody is fixed and volume can be adjusted.
- External Buzzer : 3 types of melody are output according to the Melody Type setting and
                    volume control is not included

SELECT MELODY OPTION

1. MELODY SETTING
2. SELECT MELODY TYPE

MELODY SETTING

1. MELODY ON AFTER CUTTING
2. MELODY OFF

SELECT MELODY TYPE

1. MELODY- Ⅰ
2. MELODY- Ⅱ
3. MELODY- Ⅲ

8. 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 go into 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.

To use the hex dump feature, follow these steps
1. Please turn printer off.
2. Please turn printer on while press down "Feed" button.
3. Press the FEED button three times when the Self Test printed.
4. Now printer had entered into Hexa dump mode.
5. Run any software program that sends data to the printer. The printer prints "Hexadecimal printing mode…" and then all the codes it receives in a two-column format. The first column contains the hecadecimal codes and the second column gives the ASCII characters that correspond to the codes.

Hecadecimal 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 ASCII equivalent.

6. Turn off the printer.
7. Turn on the printer.

9. Peripherals Connection

This product can communicate with other devices via Bluetooth or Wi-Fi communication and cable.

♣**NOTE**

The Standard model does not support Bluetooth, Wi-Fi, and NFC.
(ODP444 Standard = USB + Serial + Ethernet)
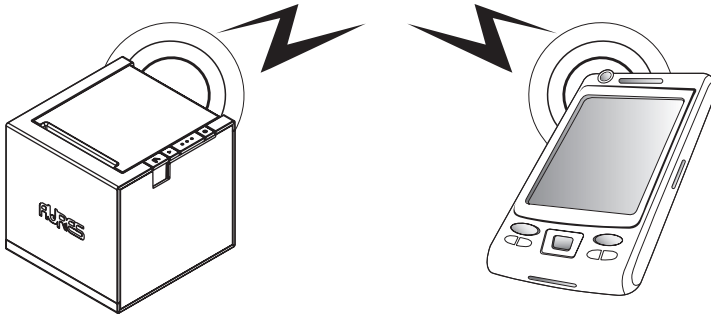
9-1. Bluetooth Connection

1. The Printer can be connected to devices equipped with Bluetooth communication capacity (PDAs, PCs, etc.)

2. Use the Bluetooth connection function supported by the device to connect to the printer.

9-2. Wi-Fi Connection

1. The Printer can be connected to devices equipped with Wi-Fi communication capacity (PDAs, PCs, etc.)

2. Use the Wi-Fi connection function supported by the device to connect to the printer.

♣**NOTE**

Please refer to the configuration manual for details.

9-3. NFC Connection
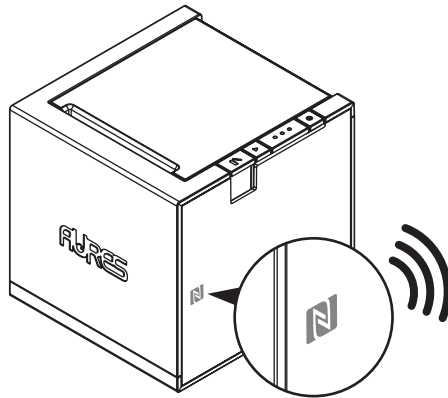
1. The printer can be connected to devices equipped with NFC communication capabilities.
2. Use the NFC connection function supported by the device to connect to the printer.

♣**NOTE**
   - NFC is only compatible with Bluetooth.

10. 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.
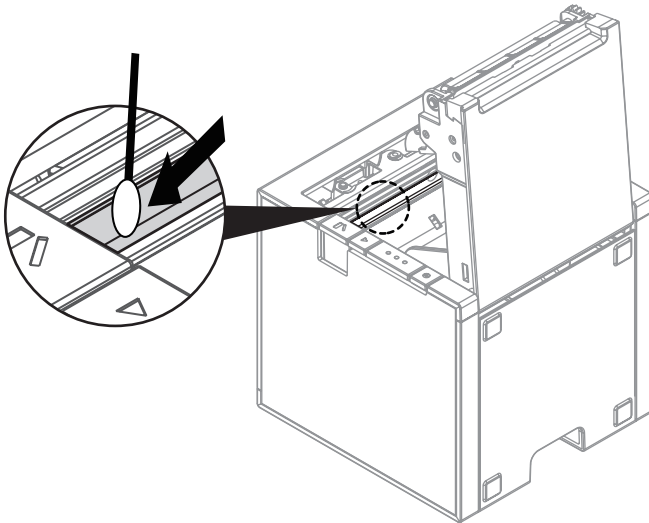
1. Use an applicator swab moistened with an alcohol solution to clean the print head and remove any dusts.

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.

11. Specifications

Printing Method		Direct Thermal
Printing Speed		Max. 200 mm/sec
Resolution		180 DPI
Dot Pitch		0.141mm x 0.141mm
Printing Width		Max. 72mm
Number of print columns.		Font A - 42 columns / Font B - 56 columns
Barcode	1D	UPC-A, UPC-E, EAN-8, EAN-13, Code 39, Code 93, Codebar, ITF, Code128 with subsets A/B/C and UCC Case Codes
	2D	QR, PDF417, Datamatrix
Emulation		ESC/POS Compatible
Driver		Windows Driver(10, 2012, 8, 7, 2008, VISTA, 2003, XP, 32bit & 64bit), Window CE & Mobile Driver & SDK (CE 4.2~, Mobile 5.0~), Linux Driver, Mac Driver, OPOS Driver, JavaPOS Driver, iOS SDK, Android(2.1~) SDK, Blackberry SDK, Symbian
Sensor		Paper end, Cover open
Paper	Paper type	Thermal Paper
	Width	Max. 80mm
	Thickness	0.06 ~ 0.09mm
	Roll Max Diameter	Max. 83mm
	Roll Core	12.5mm ± 0.5mm
Interface	Standard	USB, RS232C, Ethernet, Wi-Fi(802.11a/b/g/n), Bluetooth Ver 4.2(iOS), NFC Tag
Reliability	MCBF	70 million lines
	TPH Life	160 Km
	Cutter Life	1,500,000 cuts (Type : Guillotine)

Adaptor	AC	AC100~240V, 50/60Hz
	DC	24V / 1.75A
Size		130 x 137 x 127 [W x D x H (mm)]
Weight		0.95kg
Temperature	Operation	0 ~ 45℃
	Storage	-20 ~ 60℃
Humidity	Operation	35 ~ 80%
	Storage	10 ~ 90%

12. 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 d1…dk	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	

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