

EZ-4TT/4TK/2P/4P

User's Manual

GODEX

FCC COMPLIANCE STATEMENT

FOR AMERICAN USERS

This equipment has been tested and found to comply with the limits for a CLASS A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EMS AND EMI COMPLIANCE STATEMENT

FOR EUROPEAN USERS

This equipment has been tested and passed with the requirements relating to electromagnetic compatibility based on the standards EN50081-1 (EN55022 CLASS B) and EN50082-1 (IEC Teil 2,3,4). The equipment also tested and passed in accordance with the European Standard EN55022 for the both Radiated and Conducted emissions limits.

Specifications are subject to change without notice.



GODEX INTERNATIONAL CO.,LTD

User's Manual

Bezeichnung (Type Designation)	: NW66-1355000UA , AD-1354000AV , NW66-1354000UA
Nennspannung (Rated Voltage)	: AC 230V, 50Hz
Nennausgangsspannung (Rated Output Voltage)	: AC 13.5V
Nennausgangsstrom (Rated Output Current)	: 4A
Nennausgangsleistung (Rated Output Power)	: 54VA
Schutzklasse (Protection Class)	: II
Kennzeichnung (Characteristics)	: Fail-Safe

1. Bitte lesen Sie diese Hinweise sorgfältig durch.
2. Dieses Gerät ist vor Feuchtigkeit zu schützen.
3. Die Belüftungsöffnungen dienen zur Luftzirkulation, die das Gerät vor Überhitzung schützen.
Sorgen sie dafür, daß diese Öffnungen nicht adgedeckt werden.
4. Durch die Belüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät
Gelangen.
5. Dieses Gerät kann bis zu einer Umgebungstemperatur von maximal 25°C betrieben werden.
6. Die Ausgangswerte dürfen nicht die auf dem Typenschild angegebenen Werte überschreiten.
7. Die Steckdose muß sich nahe dem Gerät befinden und leicht zugänglich sein.
8. Nur zur Verwendung in trockenen Räumen.
9. Eine beschädigte Anschlußleitung kann nicht erstzt werden.
Der Transformator darf nicht mehr betrieben werden.
10. Der Ausgangsstromkreis muß nach den gültigen Installationsvorschriften installiert und geschützt sein.

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Part I. EZ-4TT Series Printer

1. About the Printer

1-1. Introduction

The EZ-4TT is designed in the concept of...

- User friendly -----End user does not require training.
- Features expandable ----Features are expandable by the user.

The EZ-4TT includes the following features.

- ⚡ Genuine 16-bit CPU with 16-bit circuit firmware design.
- ⚡ Maximum memory size up to 3.5M bytes, the user can install the memory module himself.
- ⚡ Two memory cartridges for maximum printing length up to 40 inches and for storage of label formats, graphics, fonts etc.
- ⚡ Large label roll size for 10 inches O.D. up to 260 meters in length.
- ⚡ Turn-key solution. Free software bundled with every printer package, giving the complete solution to End User, Sales Distributor, System Company and the System Programmer.
- ⚡ Small footprint.
- ⚡ Optional Time/Date clock.
- ⚡ Optional cutter.

1-2. General Specifications

Model (Print density)	203DPI	300DPI
Dimension	220 W x 255 H x 150 D mm – with internal label roll 220 W x 255 H x 405 D mm – with external label roll	
Print method	Thermal transfer printing and Direct thermal printing	
Print Width	4.09" (104 mm)	4.268" (108.42mm)
Print speed	3" per second	
Peel off function	Standard (min. label height: 18mm)	Option
Cutter (option)	Optional, user-friendly installation no training needed.	
Standard RAM	256K SRAM, 8" (203 mm) print length	512K SRAM, 8" (203 mm) print length
External Memory card (option select by user)	Flash card M1 (1MB) & M2 (2MB) for download label formats, graphics and fonts etc.	
	SRAM card M3: 768K, 40" (1016 mm) print length	SRAM card M4: 512K, 17" (431 mm) print length
	Font card: Please check with your local dealer for available font cards. The font card can be custom-made.	
Smart graphics management	All graphics and logos are compatible with monochrome PCX or BMP files, easy to download from PC by one simple COPY command.	
Real time clock	Time and Date print, resident time clock (option)	
Media Handling	Width	4.64" (118 mm) maximum
	Thickness	0.0025" (0.06 mm) minimum to 0.008" (0.2 mm) maximum
	Type	Roll-feed, die cut, continuous, fan-fold, tags or ticker for Thermal transfer or Direct thermal use.
	Core	1" core or option 3" core
Length	Internal roll 40 meters long (4" diameter) External roll 260 meters long (10" diameter)	

Model (Print density)		203DPI	300DPI
Ribbon Handling	Width	4.33" (110 mm) maximum	
	Type	Wax, Wax-resin, Resin for full ribbons range application.	
	Core	0.5" (12.7 mm)	
	Diameter	Maximum 1.7" (43 mm)	
	Length	150 meters in length	
Fonts / Resident features		International character sets Font are expandable, rotate, and down loadable Optional for foreign character sets	
Communication interface		Centronics parallel port and serial port are built in as standard serial RS-232 (DB9 connector) at 4,800 to 38,400 baud rates XON/XOFF, RTS/CTS handshaking. Programmable 7 or 8 data length, 1 or 2 stop bits, selectable parity.	
Bar codes		Code 39, Code 93, Code 128 (subset A,B,C), UCC 128, UPC A / E (add on 2 & 5), I 2 of 5, EAN 8 / 13 (add on 2 & 5), Codabar, Postnet, EAN 128, RPS 128, DUN 14	
2-D Bar codes		Maxicode and PDF 417	
Paper sensor types		1. Plain paper detector. 2. Label gap size detector. 3. Black-line reflect sensor detector. 4. Stripper sensor detector.	
Working Environment		Operating Temperature: 40°F to 104°F (5°C to 40°C) Storage Temperature: -40°F to 140°F (-40°C to 60°C) Humidity: 10% to 90% non condensing, free air	
Power requirement		AC 13.5V ~ 16.0V; 4A ~ 5A. DC 18.0V ~ 24.0V; 4A ~ 5A	

1-3. Contents

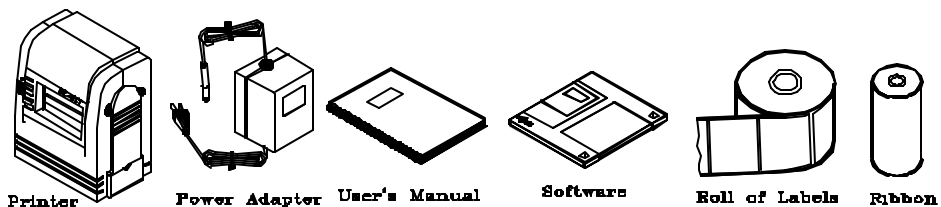


Fig 1.3.1

1-4. EZ-4TT Printer Parts

Use the following diagram to familiarize yourself with the features and components of the EZ-4TT printer.

Parts List Table			
Part	Description	Part	Description
1	Front Cover	15	Stripper Arm (Adjustable Up/down)
2	Back Cover	16	Strip Sensor
3	Dust Cover for Interface Panel	17	Label Roll Core
4	Locking Tenon (2 EA, left/right)	18	Flash Memory Card (Optional)
5	Locking Tenon (2 EA, left/right)	19	Stripper Bar
6	LED Indicator	20	Stripper Roller
7	Paper Feed Button	21	Ribbon Supply Spindle
8	Parallel Port	22	Core Guide
9	Serial Port	23	Label Roll Stand (2 EA)

Parts List Table			
Part	Description	Part	Description
10	Power Jack	24	DIP Switch
11	Power Switch	25	Fan-Fold Media Entry
12	Ribbon Rewind Spindle	26	Label Guide (Adjustable Horizontally)
13	Printer Head Pressure Adjusting Screws	27	Gap Sensor Assembly
14	Printer Lock (2 EA, left/right)	28	Printer Head Assembly

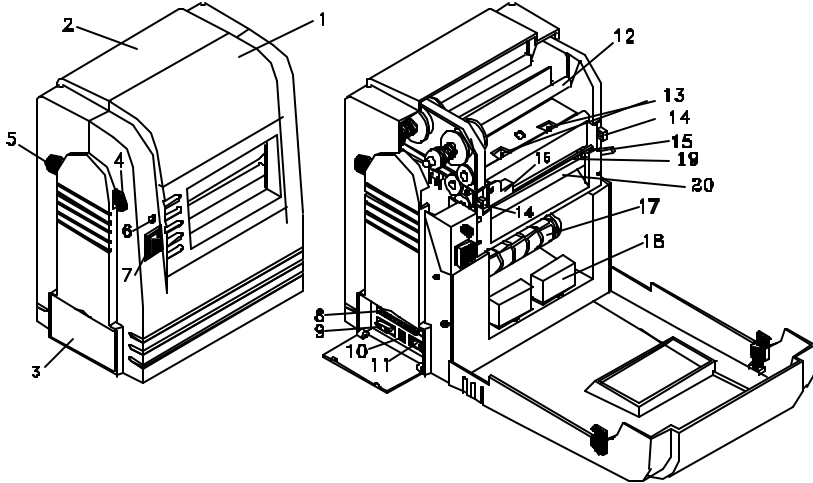


Fig 1.4.1

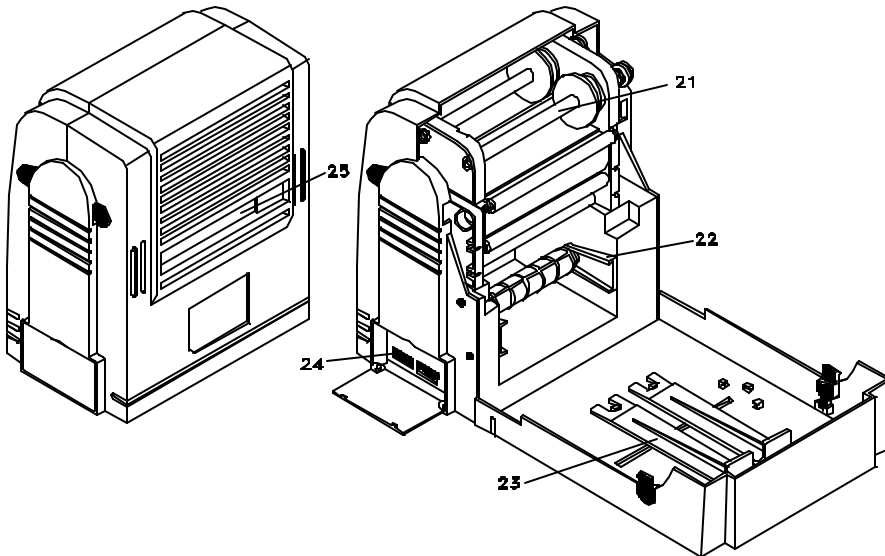


Fig 1.4.2

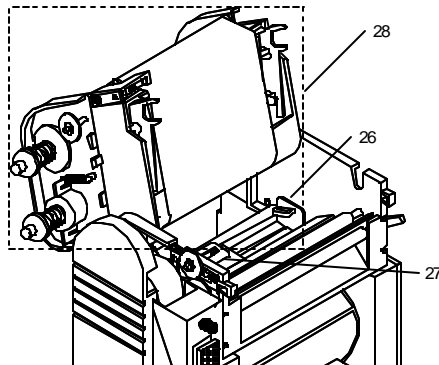
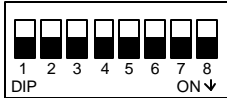


Fig. 1.4.3

2. Setting up Your Printer

2-1. RS-232 DIP-switch Setting-up



Warning:
Power off before setting DIP-Switch.

Fig. 2.1 DIP-Switch (part 24)

SW1	SW2	baud rate		SW3	SW4	parity	
off	off	4800		off	off	non parity	
on	off	9600		on	off	odd parity	
off	on	19200		off	on	even parity	
on	on	38400		on	on	no used	
SW5	data length	SW6	stop bit	SW7	cutter	SW8	mode
off	7 bit	off	1	off	disable	off	Thermal Transfer
on	8 bit	on	2	on	enable	on	Direct Thermal

2-2. Loading the Ribbon

Only the Thermal Transfer Mode needs ribbon. If you choose the Direct Thermal Mode, just install the direct thermal paper into your printer (see Chapter 2 Section 3). When choosing Thermal Transfer Mode, follow these steps to load the ribbon.

1. Power off and choose Thermal Transfer Mode (SW8 off).
2. Open the back cover by pressing the two locking tenons on the left and right sides (part 5). Lay down the back cover (see figure 2.2.1 step 2).
3. Open the front cover by pressing the two locking tenons on the left and right sides (part 4). Lay down the front cover (see figure 2.2.1 step 3).

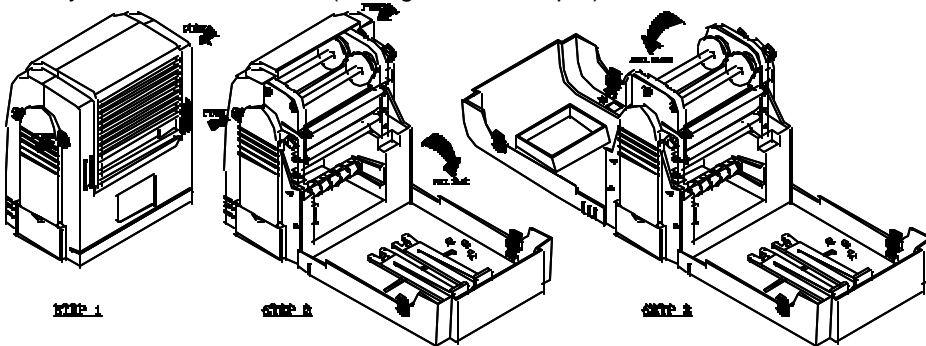


Fig. 2.2.1

4. By pressing toward the cap-side, take out the ribbon supply spindle (part 21) and the rewind spindle (part 12). (see figure 2.2.2)
5. Install a new ribbon onto the supply spindle, and install a empty paper core onto the rewind spindle (see figure 2.2.3)
6. Put back the supply spindle and the rewind spindle.
7. Press the two printer locks (part 14) to loosen the printer head assembly.
8. Turn over the head assembly. Pass the front edge of the new ribbon through between the assembly and the strip sensor (part 16), then stick the front edge to the paper core of the rewind spindle (see figure 2.2.4).
9. To load the label roll (see Chapter 2, Section 3).
10. Put back the printer head assembly and fasten it by pressing down from the top of it (see figure 2.2.5).
11. Close the front cover and back cover.

12. Power on. Press the feed button (part 7) to feed out labels.

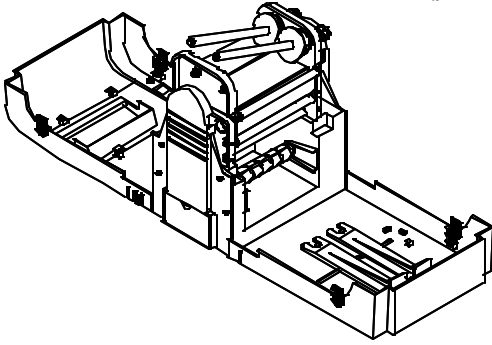


Fig. 2.2.2

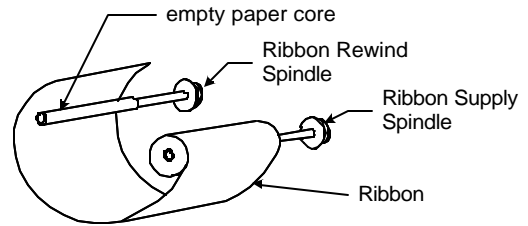


Fig. 2.2.3

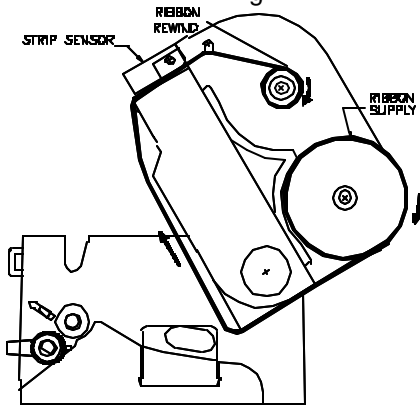


Fig. 2.2.4

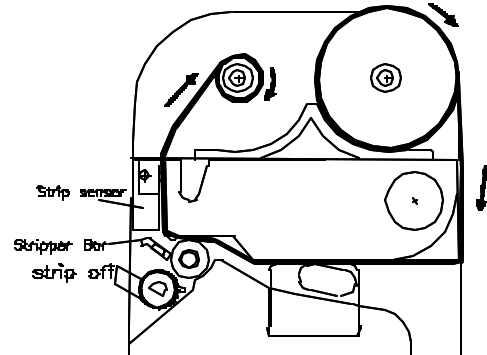


Fig. 2.2.5

2-3. Loading Label Roll

A. Load a small label roll

1. Open the front cover and back cover.
2. Install a label roll onto the roll core (part 17).
3. Put back label roll into the core guide (see figure 2.3.1).
4. Press the printer locks (part 14) to loosen the printer head assembly.
5. Turn over the printer head assembly. Pass the front edge of the label roll through beneath the gap sensor.
6. Adjust the label guide to close to the roll's edge (see figure 2.3.2).
7. Put back the printer head assembly and fasten it by pressing down from the top of it.
8. Close the front cover and back cover.
9. Press the feed button (part 7) to feed out labels.

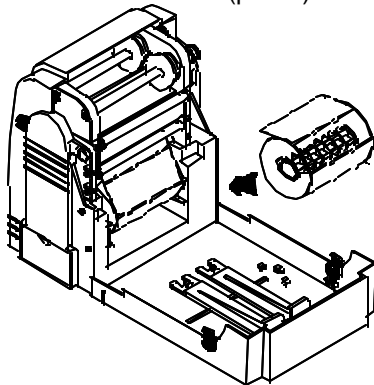


Fig. 2.3.1

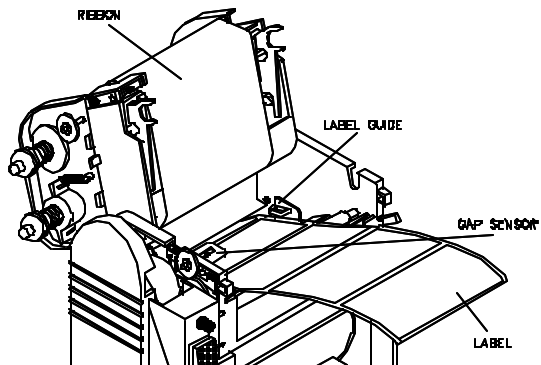


Fig. 2.3.2

We suggest that the minimum label height be more than 20 mm.

B. Load large label roll

1. Open the Front cover and back cover.
2. To load a label roll onto the roll core (part 17).
3. Remove the label roll stands (part 23). Vertically place the two stands along the left side and right side of the back cover (see Fig. 2.3.3).
4. Place the large-size label roll on the stands (see Fig. 2.3.3).
5. Press the printer locks (part 14) to loosen the printer head assembly.
6. Turn over the assembly. Pass the front edge of the label roll through beneath the gap sensor (see figure 2.3.2).
7. Put back the printer head assembly and fasten it by pressing down from the top of it.
8. Close the front cover.
9. Press the feed button (part 7) to feed out labels.

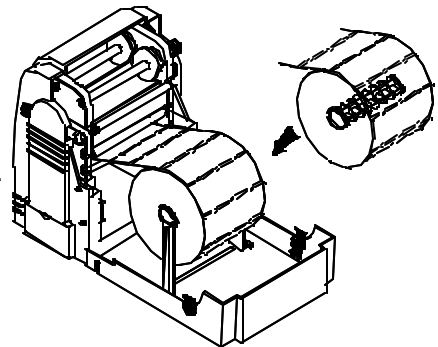


Fig. 2.3.3

Note: DT (Direct Thermal) mode: using direct thermal paper
TT (Thermal Transfer) mode: using thermal transfer paper

C. Fan-fold type media setting

1. Open the back cover.
2. Take out the two Big Label Roll Stands (part 23)
3. Insert the paper into the Fan-fold Media Entry (part 25) of the back cover.
4. Push and release the printer locks (part 14) to open the printer head.
5. Turn over the opened printer head assembly. Pass front edge of the labels under the gap sensor.
6. Adjust the label guide (part 26) to fit in the label's edge (see figure 2.3.2).
7. Put back the printer head assembly and fasten it.
8. Close the front cover and back cover (see figure 2.3.4).
9. Push feed button (part 7) to feed out label.

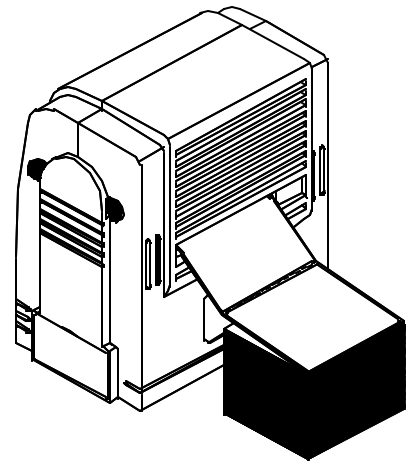


Fig. 2.3.4

D. The media setting for the Laying down printing

1. Open the front cover and back cover.
2. Hold the open end (the apron) of the Core Guide, lift it up about 5 mm then turn it round 180 degree and snap in the little hole.
3. Follow the above steps to adjust another Core Guide.
4. Press the printer locks (part 14) to open the printer head.
5. Turn over the opened printer head assembly. Pass front edge of the labels under the gap sensor.
6. Adjust the label guide (part 26) to fit in the label's edge (see figure 2.3.2).
7. Put back the printer head and fasten it.
8. Close the front cover and back cover.

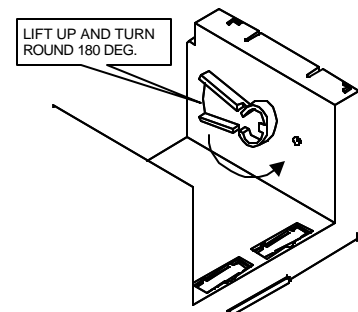


Fig. 2.3.5

9. Push feed button (part 7) to feed out label.
10. Lay the printer down with the front cover up, on the table and start it to print.

2-4. To Connect the Printer to an Interface

1. Be sure the power switch of the printer is off.
2. Plug the power adapter into the printer power jack.
3. Connect the printer to an interface (parallel or serial port).
4. Turn on the power switch, and the power LED is light red or green.
(Refer Chapter 2, Section 2 and 3, to load the ribbon and label roll.)

Meaning of Beep Sound

1. Beep 1 time: Power on and printer is ready
2. Beep 2 times: Check the label roll. Maybe the roll is not yet loaded or not in the correct position, or there are no labels.
3. Beep 3 times: Check ribbon. Maybe the ribbon is not yet loaded or finished out, or the setup is not correct.
4. Beep 4 times: Printer head assembly is unlocked.

2-5. Using the Stripper

Stripper (Peeler) helps you separate the printed label from the liner paper one at a time. Only when the separated label has been taken away, will another label be printed automatically.

1. Open the front cover and back cover.
2. Press the printer locks (part 14) to loosen the printer head assembly, and turn over the head assembly.
3. Check if the stripper arm is on "on" position. If not, press it down to "on" position.
4. Load the label roll with at least 4 inches of liner paper past the platen (see figure 2.5.1a).
5. Put back the printer head assembly and fasten it.
6. Insert the front edge of the 4-inch liner paper between the stripper bar (part 19) and the stripper roller (part 20).
7. Power on the printer, and press the paper feed button a few times until the front edge of the liner paper appears through the stripper roller (make sure again: the stripper arm is now turned down -- strip on).
8. If the liner paper does not appear at the right angle under the stripper roller, you should adjust the label roll to right position (Loosen the printer head assembly again and lift up the stripper arm, then you can adjust the label). Make sure the edge of the first label is under the gap sensor (see figure 2.5.1b).
9. Turn up the strip sensor (see figure 2.5.2a), and you are ready to start printing the labels (see figure 2.5.3). (Figure 2.5.2b show you how to turn down the strip sensor.)

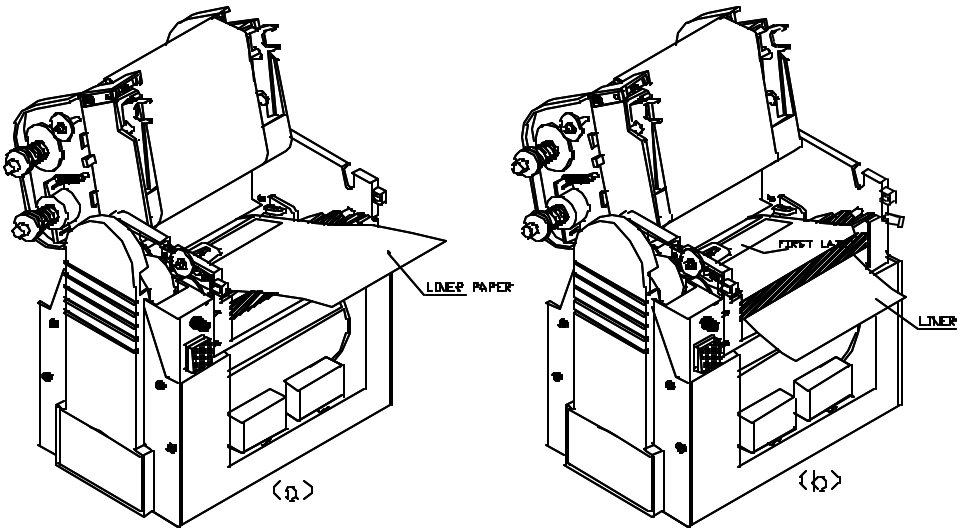


Fig. 2.5.1

To position the sensor:

Press the top area (3 – bar area) and lift from the bottom as shown in figure 2.5.2a.

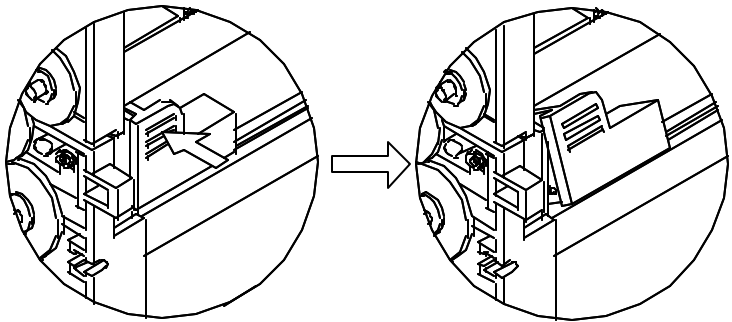


Fig. 2.5.2a

Suggested way to put back the sensor:

Press the bottom area (right below the 3 – bar).

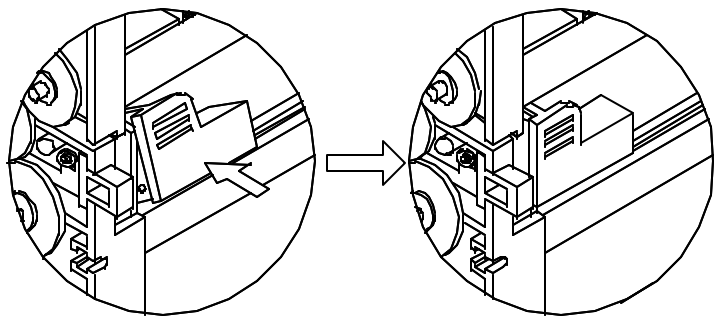


Fig. 2.5.2b

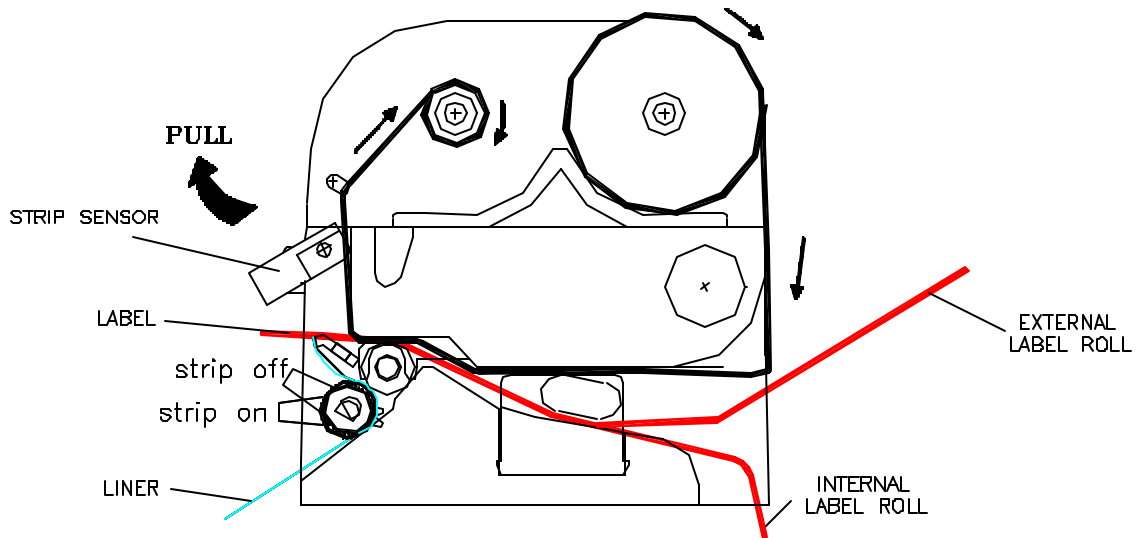


Fig. 2.5.3

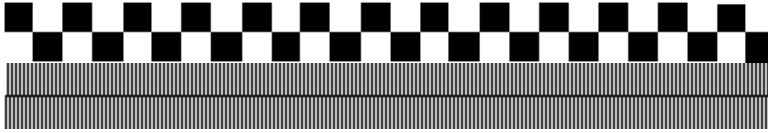
Note: Lift the strip arm to “off” position whenever you do not choose stripper.

Although the stripper function can support a label as short as 18 mm high, we suggest that the minimum label height be more than 20 mm.

2-6. Self Test

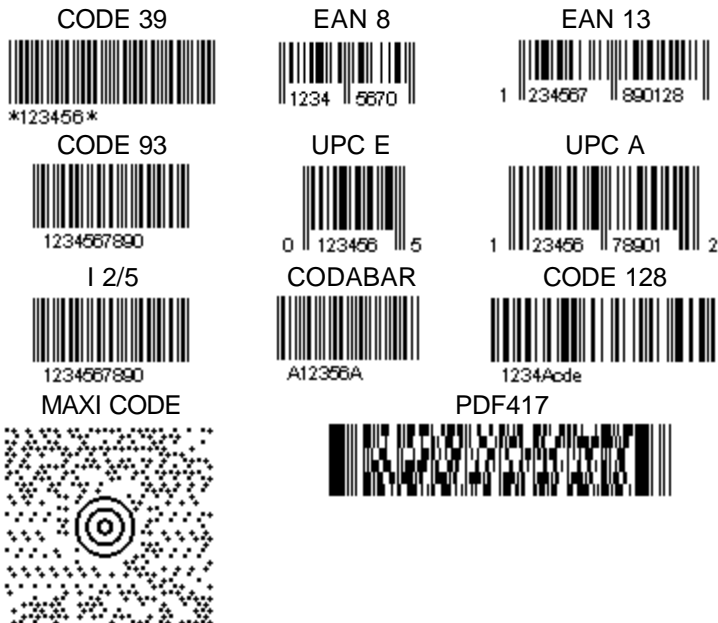
The self-test function helps you check if the printer works well. To get in the self-test function; please follow the steps.

1. Hold down the feed button when powering on.
2. Release the feed button after the printer beeps 4 times.
3. Wait about 3 seconds, the printer will print the following contents.



EZ-4TT LABEL PRINTER

VERSION : Vx.xx



Check mode

To get in the check mode; please go after the following steps.

1. Hold down the feed button when powering on.
2. Release the feed button after the printer beeps 5 times.
3. The printer will print the following contents.

CHECK MODE BEGIN

Note: Disable the Check mode or Self-test, please power off the printer at least 2 seconds, than power on again.

2-7. To Install Memory Card

There are three types of external memory card (Flash Card, SRAM Card and Font Card) for EZ-4TT. All the external memory cards have the same setting method. There is no difference between the left and right slots. You might insert any of the above external memory cards into either slot. Please follow the steps.

1. Power off the printer.
2. Open the front cover.
3. Put the tip of a screwdriver into the little groove which protects the Lids that cover the slots. Lift the Lid off carefully with the screwdriver.
4. Please refer to the following diagram to insert the external memory card(s) into the slot(s). (see figure 2.7.1)

Regarding the 2 memory card slots in EZ-4TT, you only can use it under one of the following situations.

1. One SRAM card only.
2. One Flash memory card only.
3. One SRAM card & one Flash memory card at the same time.

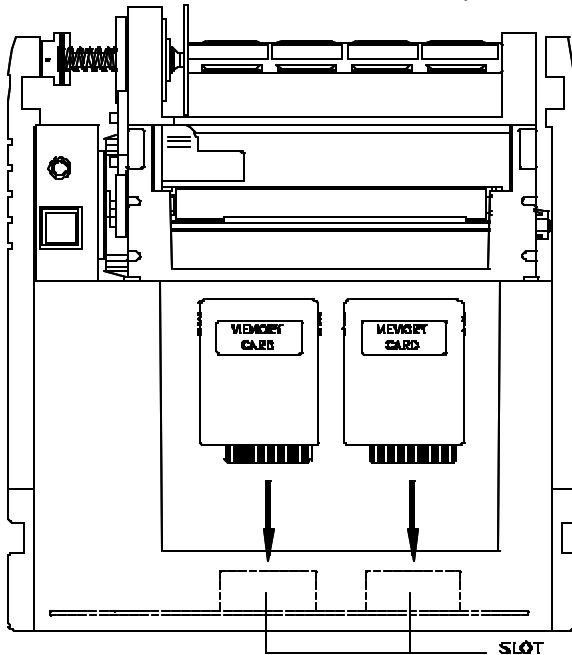


Fig.2.7.1

Warning:

Power off the printer before installing the memory card.

It is prohibited to use either two SRAM cards or two Flash memory cards at the same time.

2-8. To Install the Cutter

We suggest that the minimum label height be more than 35 mm. If you need any help in installation and maintenance, please consult your supplier or dealer.

3. Maintenance and Adjustments

3-1. Cleaning the Printer Head

1. Open the Front cover and back cover.
2. Press the printer lock (part 14) to loosen the printer head assembly.
3. Turn over the head assembly.
4. Use a soft cloth soaked with isopropyl alcohol to remove the stuck label and cleans the surface.
5. Put back the printer head and fasten it.

3-2. Adjusting Gap Sensor Sensitive

Only trained personnel must make any adjustment of the gap sensor, and it is highly recommended that adjustment be made in a well-lit room.

1. Power on then open the Front cover and back cover.
2. Press the printer lock (part 14) to loosen the printer head assembly.
3. Turn over the head assembly.
4. Overlook the gap sensor (part 27). (see figure 3.2.1)
5. The Variable Resistor (VR) can be adjusted by ways either counter-clockwise for higher transmit power (higher sensitivity) or clockwise for lower transmit power (less sensitivity). Any small amount of adjustment of the Variable resistor has to be verified by pressing the feed button at least 7 times.

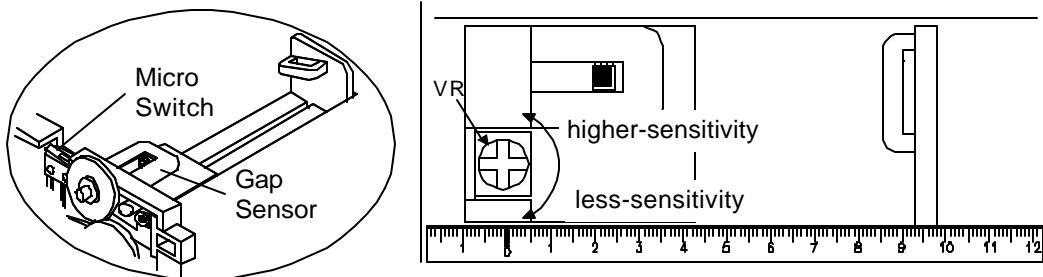


Fig. 3.2.1

a. When using the label roll

6. Remove the label from the liner. Load the liner paper under the sensor.
7. Press the micro switch and gently adjust the Variable Resistor. Right after the adjustment, press the paper feed button at least 7 times (do not loosen the micro switch), until the LED light turns red.
8. Put the label roll (with labels on the liner) under the sensor and press the paper feed button. If the LED light is green, your adjustment is done. If the LED light keeps red, power off and on, then repeat step 7 and gently adjust in reverse direction on Variable Resistor until the LED light turns green.

b. When using plain paper

6. Press the micro switch and load the plain paper under the sensor. Press feed button and look at the paper feed LED, it may be red or green. If green, go straight to step 8; if red, go to step 7.
7. Adjust the Variable Resistor gently by clockwise for lower transmit power (do not loosen the micro switch). Right after the adjustment, press the paper feed button at least 7 times, until the LED light turns green.
8. Remove the paper from the sensor (do not loosen the micro switch), and press the paper feed button. When LED turns red, the adjustment is done. If it is still green,

counter-clockwise for higher transmit power and power off and on, then repeat step 6.

3-3. Adjusting the Start Print Position

No matter whether the plain paper or label is used, setting the horizontal start print position is the same way. Please follow the steps.

1. Choose the expected distance "x" (from the left edge to the start print position). In this case, we suppose the distance is 4 mm (see figure 3.3.1).
2. Loosen the printer head assembly.
3. Move the gap sensor and choose the distance of 4mm (from the left margin line to the digit "0" at the ruler). (See figure 3.3.2).
4. Insert the label roll and move the label guide to close to the roll's edge.
5. Put back and fasten the printer head assembly; then you can try printing a label to test the gap sensor position.

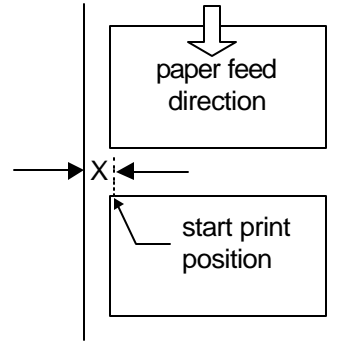


Fig. 3.3.1

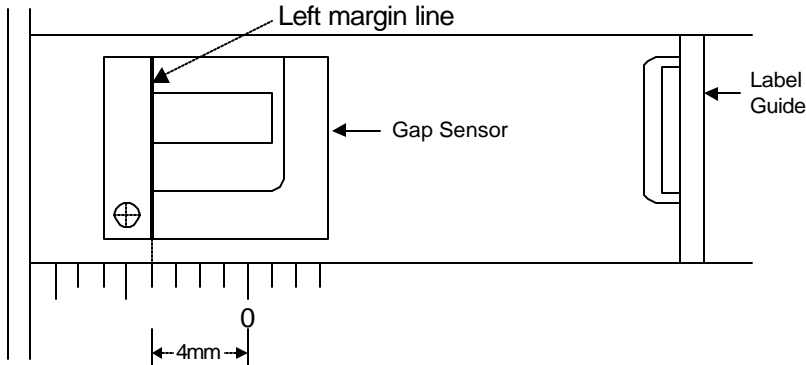
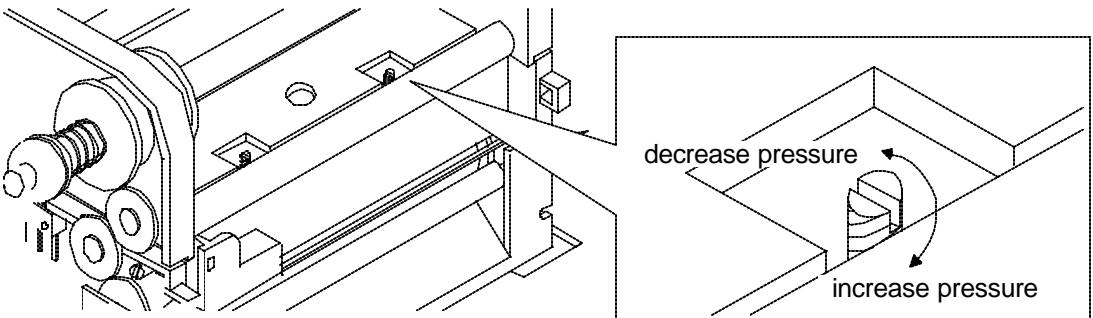


Fig. 3.3.2

3-4. Adjusting the Printer Head Pressure Screws



When opening the front cover, you will see two screws right on the top of the printer head assembly. When different paper material or ribbon material is used, you may need to adjust the printer head pressure, by turning these two screws to decrease the pressure or vice versa. If the pressure between the right and left sides of printer is not balanced, please readjust these two screws.

Appendix A. Troubleshooting

Problem	Recommended Solution
LED does not light (power switch already turned on).	<ul style="list-style-type: none"> ☞ Check Power connector.
Printing stops and LED light turns red.	<ul style="list-style-type: none"> ☞ Software setting or programming problem. ☞ Try using correct papers or ribbon material. ☞ The ribbon or the labels roll empty. ☞ Label jam, remove the stuck labels. ☞ The Printer Head Assembly unlocked. ☞ Try adjusting the gap sensor to less sensitivity.
Printing no stops or skip label	<ul style="list-style-type: none"> ☞ Try adjusting the gap sensor to higher sensitivity.
Printer is working but nothing is printed on the labels.	<ul style="list-style-type: none"> ☞ Check if the roll is loaded with labels facing up or if the paper is correct type. ☞ Try choosing correct printer driver. ☞ Make sure to use the correct label roll and printing mode.
Label stuck.	<ul style="list-style-type: none"> ☞ Remove the stuck labels and use soft cloth soaked with alcohol to clean the adhesive glue.
Only part of the label is printed.	<ul style="list-style-type: none"> ☞ Label or ribbon stuck on the printer head. ☞ Software problem. ☞ Margin setting incorrect. ☞ Printer head not fixed in proper position, re-adjust printer head screws or clipper. ☞ Make sure the ribbon is not wrinkled. ☞ Adjust the printer head pressure screws (part 13) to increase the pressure. ☞ Check if using correct power source.
Difficult to load label roll.	<ul style="list-style-type: none"> ☞ Labels stuck in the printer.
When printing out, some dots missing.	<ul style="list-style-type: none"> ☞ Clean printer head with alcohol (If the label glue is stuck to printer head, apply alcohol to printer head, and wipe with soft cloth softly). ☞ Replace printer head.
Printing position not correct.	<ul style="list-style-type: none"> ☞ Check the gap sensor, it may be covered with dust. ☞ Contact your label supplier, make sure they use qualified label liner material. ☞ Adjust the gap sensor VR if you are an experienced user. ☞ Check the label guide, it may not be in the proper position.
Label printing jumps to next label.	<ul style="list-style-type: none"> ☞ Check the label height setting. ☞ Check the gap sensor, it may be covered with dust.
Label printing not very clear.	<ul style="list-style-type: none"> ☞ Check the printer darkness setting.
Paper is not properly cut.	<ul style="list-style-type: none"> ☞ Check the cutter, it may be covered with paper dust in the blade holder shaft.
Label peeling not working correctly.	<ul style="list-style-type: none"> ☞ Check the printer strip sensor, it may be covered with dust. ☞ Check label installation.
Printer not feeding when using narrow label.	<ul style="list-style-type: none"> ☞ Decrease the pressure on the right hand side of the printer head (see Chapter 3 Section 4)
Garbage appears when printing length is over 8 inches.	<ul style="list-style-type: none"> ☞ Check if SRAM CARD is installed.