



sewoo

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MODEL : SLK-TE25

Receipt Printer User's Manual

"Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance.



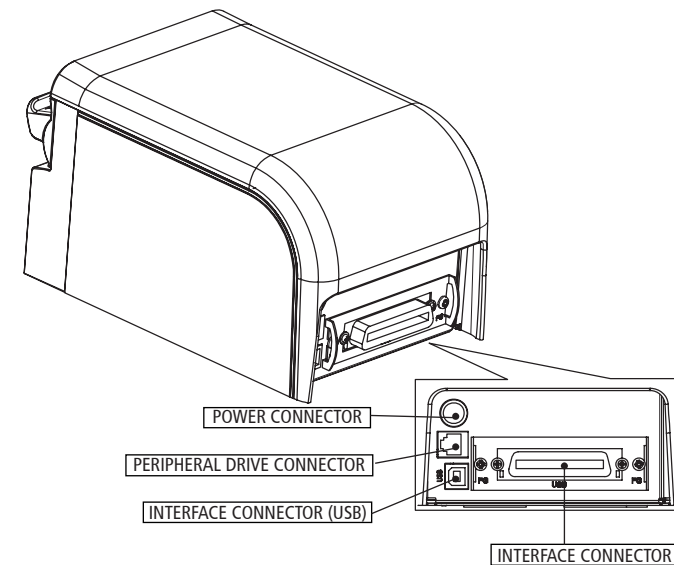
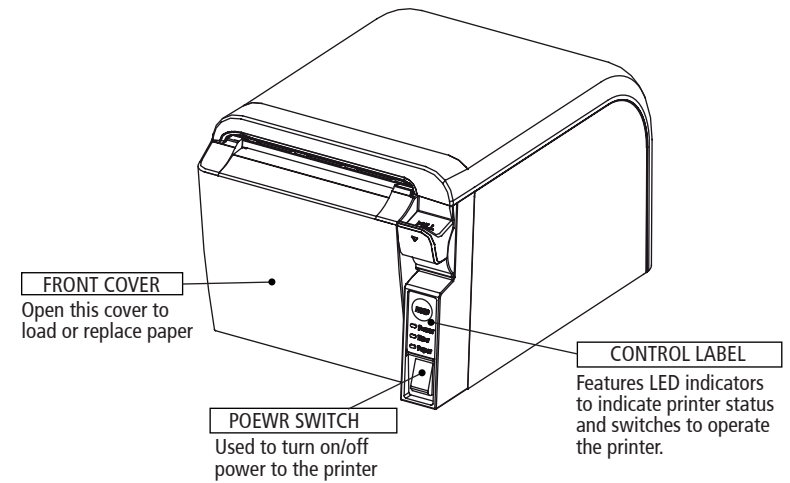
Disposal of Old Electrical&Electronic Equipment(Applicable in the European Union and other European countries with separate collection systems)

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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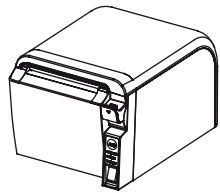
1. Parts Identifications



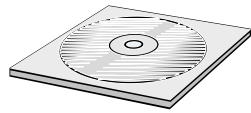
2. Setting Up the Printer

2-1. Unpacking

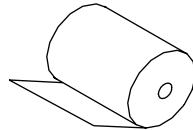
Your printer box should include these items. If any items are damaged or missing, please contact your dealer for assistance.



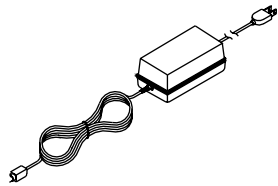
The Printer



CD



Roll Paper



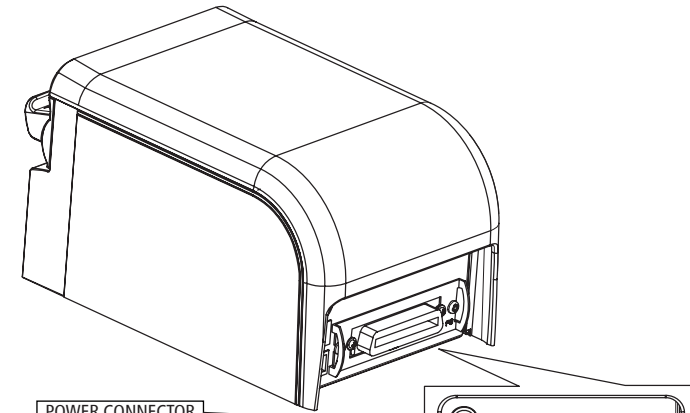
Adaptor(Optional)



Interface Cable(option)

2-2. Connecting the Cables

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



POWER CONNECTOR

For connection of the AC adapter.
Never unplug the AC adapter while the printer is on.

PERIPHERAL DRIVE CONNECTOR

Connects to peripheral units such as cash drawer, etc.
Do not connect this to a telephone.

INTERFACE CONNECTOR (USB)

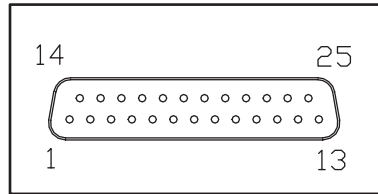
For connection to a host computer.

INTERFACE CONNECTOR

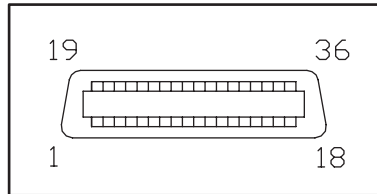
For connection to a host computer.

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

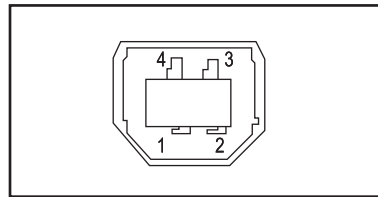
2-2-1. Interface Connector



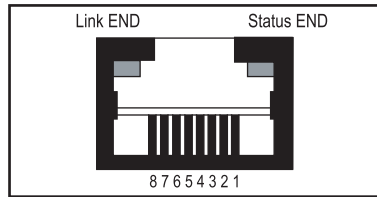
<D-SUB 25 Female Serial>



<Centronics Parallel>



<USB "B" Type>



<Ethernet>

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

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	I/O	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	-	+3.3V
19~30	GROUND	-	System ground
31	INIT-	Input	Initialize
32	ERROR-	Output	Printer error
33	GROUND	-	System ground
34	NC	-	
35	NC	-	
36	SELLECT IN-	Input	Printer select signal

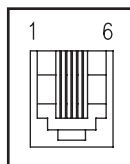
Ethernet Interface

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.



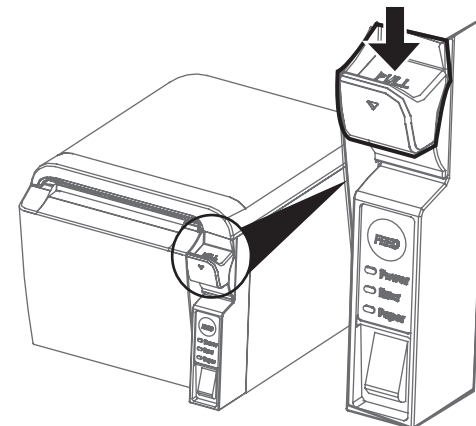
PIN	SIGNAL	DESCRIPTION
1	Signal GND	-
2	Drawer kick-out drive signal 1	Output
3	Drawer open/close signal	Input
4	+24V	-
5	Drawer kick-out drive signal 2	Output
6	Signal GND	-

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.

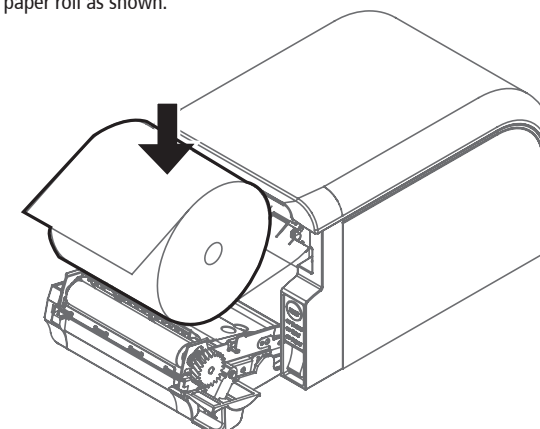
♣ Turn off power switch.

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.

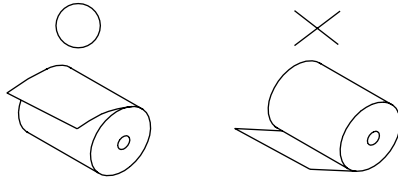


3. Remove the used paper roll core if there is one inside.

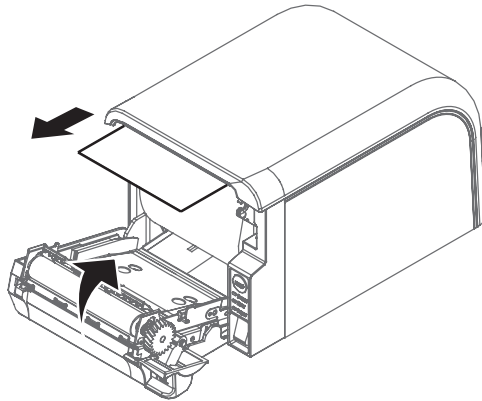
4. Insert new paper roll as shown.



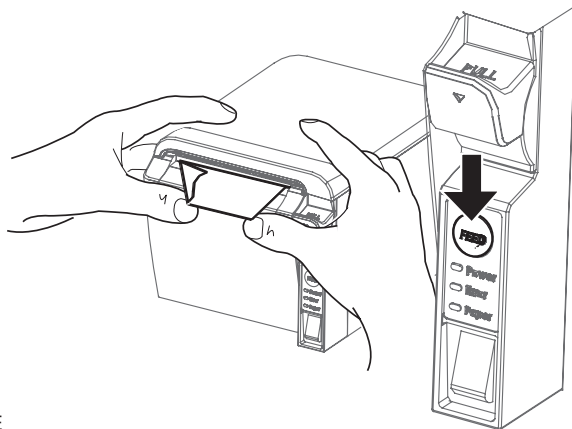
5. Note the correct direction that the paper comes off the roll:



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



7. Close the paper with both hands and run the paper line up by pressing feed button.



✓ NOTE

If the users close the cover with one hand, it would not be closed completely. Please use both hands to close.

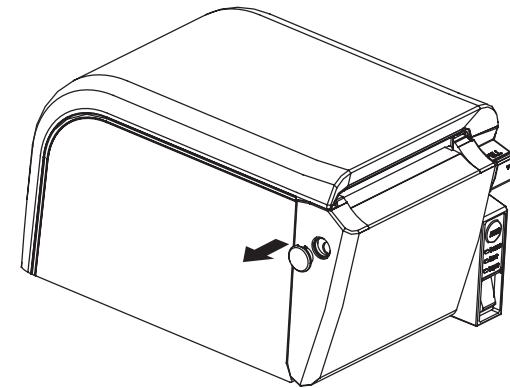
2-4. Managing a cutter Jam

♣ CAUTION:

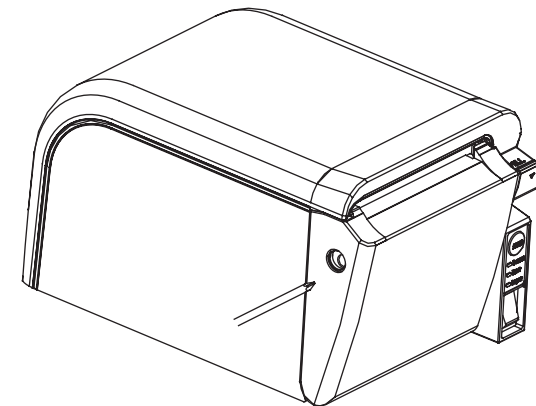
When the paper cutter is jammed, the top cover might be stuck closed. In this case, repeat power on and off several times.

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

1. Make sure the printer turns off.
2. Release Cutter Jam Cover as shown the figure



3. Rotate the bolt with driver until the cutter goes into the initial stage

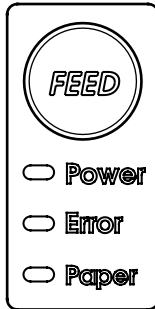


3. Control panel and other functions

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.

Control Panel



Button

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
	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 empty	OFF	ON	ON	Insert new paper roll
Paper near end	ON	OFF	ON	Paper is low

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. SELECT BAUDRATE MODE
3. HEXADUMP MODE

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

1. ASCII PRINT (press the FEED button once)	2. SELECT BAUDRATE MODE (press the FEED button twice)	3. HEXADUMP MODE (press the FEED button triple time)
Printing test page constructed with ACII code.	Set the speed of Serial Interface (You can set the BAUDRATE in this mode)	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. Select Baudrate Mode

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 BY BUTTON

1. 9600bps
2. 19200bps
3. 38400bps
4. 115200bps

7. 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 hexadecimal codes and the second column gives the ASCII 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 ASCII equivalent.

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

8. Specifications

8-1. General Specifications

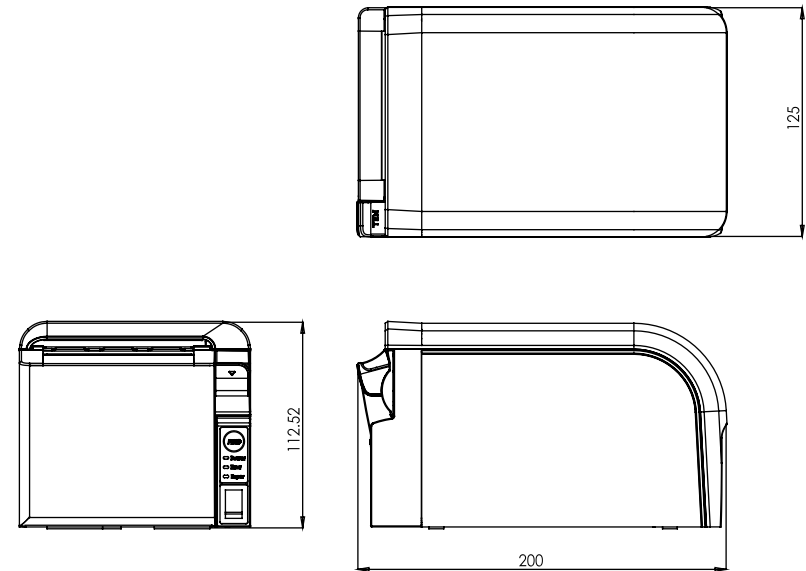
- (1) Printing Method Direct line thermal printing.
- (2) Print speed 200mm/sec
- (3) Dot density (Hor / Ver) 180 DPI X 180 DPI
- (4) Dot Pitch 0.141mm X 0.141mm
- (5) Printing Width Max 72mm (512 dots)

(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 : 50mm~82.5mm
Roll diameter : Max. ø83.0mm
- (8) Weight 1.4 Kg

(9) Overall dimension



8-2. Auto Cutter Specifications

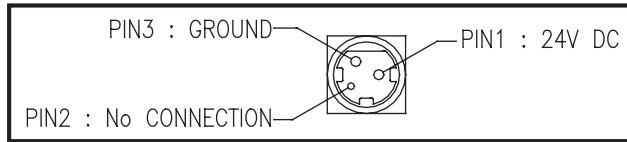
- (1) Cutting Frequency Max. 30 cuts per minute
- (2) Thickness of paper 0.06 ~ 0.09 mm
- (3) Cutter Life 1.5 million cuttings

8-3. Interface

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

8-4. Electrical Characteristics

- (1) Input Voltage DC 24V ± 10%
- (2) Current Consumption Operating: Approx. 1.5 A (at ASC II printing)
Peak : Approx. 10 A
(at print duty 100%, For 10 seconds or less)
Stand-by : Approx. 0.03 A
- (3) Power Connector



♣Important!

When using a printer power supply other than optional AC adaptor, 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 noise.

Take the appropriate measure to protect against electrostatic AC line noise, etc.

8-5. 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)

8-6. Reliability

- (1) MCBF
 - 60 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 160Km
- (3) Cutter Life 1,500,000 cuts

8-7. Certification

- (1) FCC PART15 CLASS A
- (2) CE EMCD/LVD
(CE-EMCD class B should use parallel shield cable complied with IEEE-1284 standards)
- (3) UL/cUL (UL 60950-1)
- (4) KC
- (5) ENERGY STAR

This equipment is indoor use and all the communication wiring are limited to inside of the building"

♣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.

