

TDP-225 /TDP-324/ TDP-225W/ TDP-324W

DIRECT THERMAL BAR CODE PRINTER

**SERVICE
MANUAL**

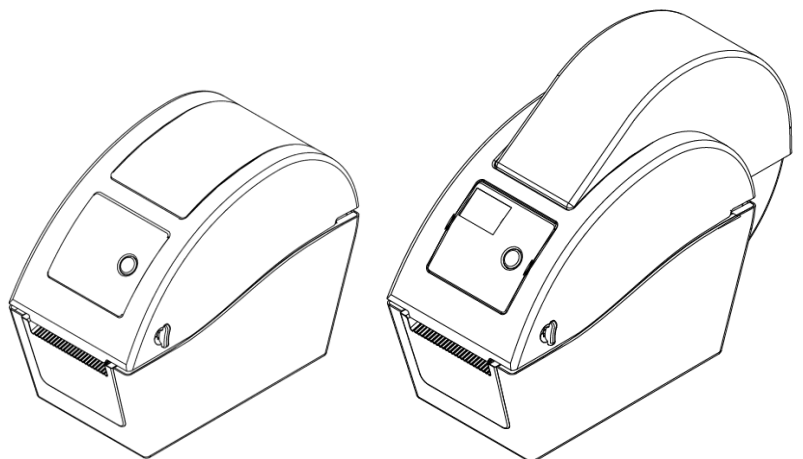




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1. OVERVIEW

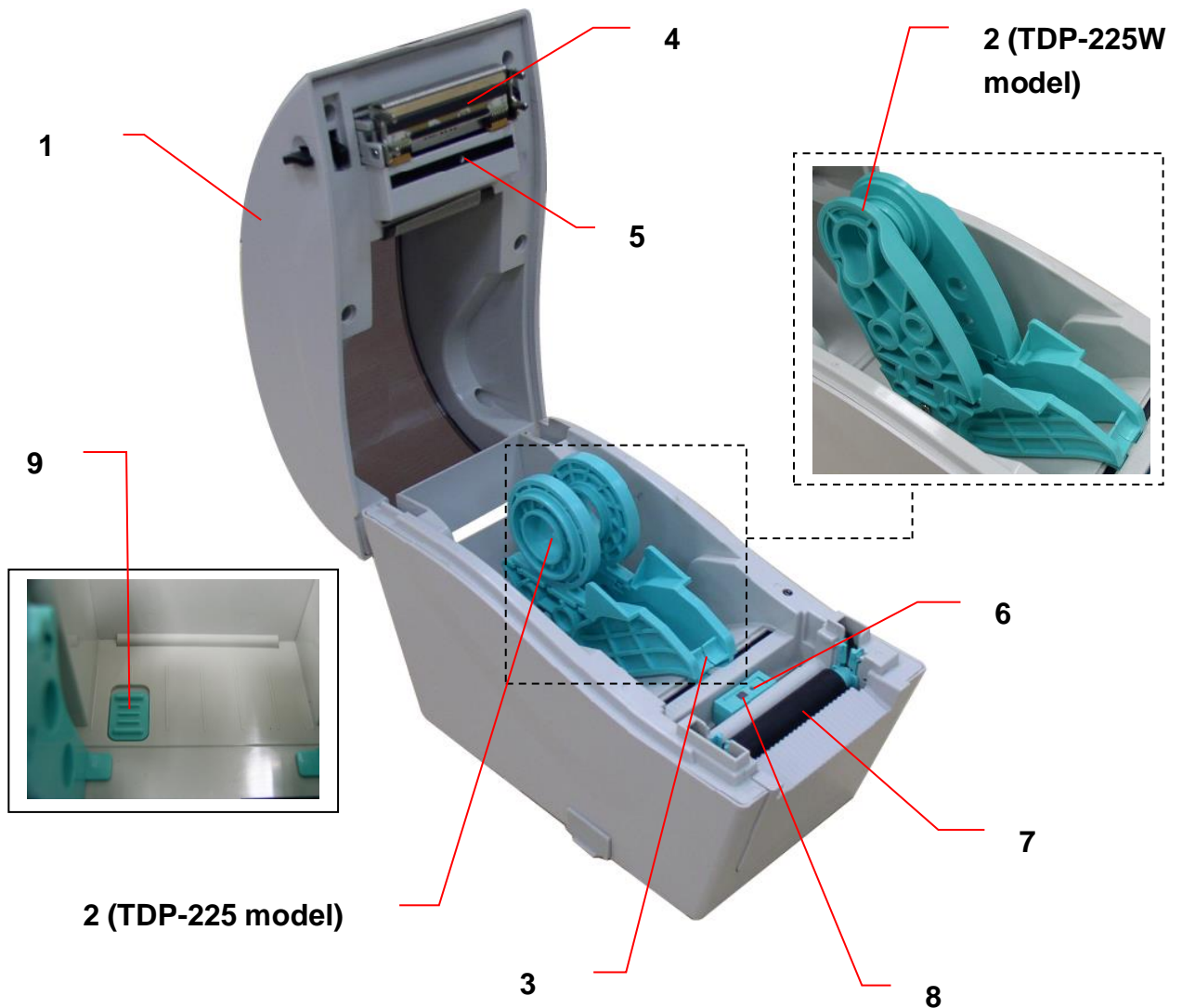
1.1 Front View

| TDP-225/324 model | TDP-225W/324W model |
|--|---|
|  |  |
| <p>1. Top cover open lever 2. MicroSD card socket 3. Media view window 4. LED indicator 5. Feed button 6. Paper exit chute 7. LCD display (Option for TDP-225/324 model)</p> | |

* Recommended MicroSD card specification.



| SD card spec | SD card capacity | Approved SD card manufacturer |
|--|------------------|-------------------------------|
| V1.0, V1.1 | MicroSD 128 MB | Transcend, Panasonic |
| V1.0, V1.1 | MicroSD 256 MB | Transcend, Panasonic |
| V1.0, V1.1 | MicroSD 512 MB | Transcend, Panasonic |
| V1.0, V1.1 | MicroSD 1 GB | Transcend, Panasonic |
| V2.0 SDHC CLASS 6 | MicroSD 4 GB | Transcend |
| <p>- The DOS FAT file system is supported for the SD card. - Folders/files stored in the SD card should be in the 8.3 filename format</p> | | |

1.2 Interior View



1. Top cover
2. Media holder
3. Media guide
4. Printhead
5. Gap sensor (receiver)
6. Gap sensor (transmitter)
7. Platen roller
8. Black mark sensor
9. Media holder lock switch

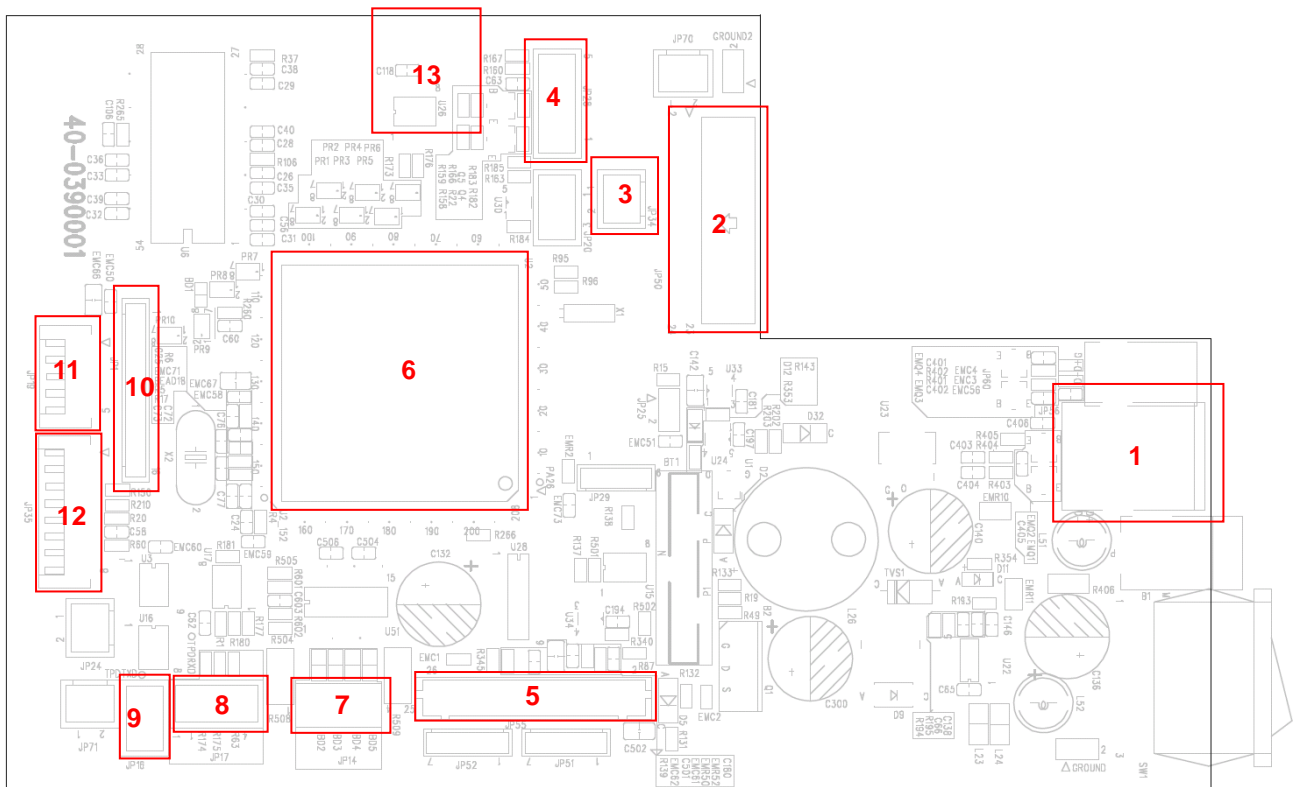
1.3 Rear View

| TDP-225/324 model | TDP-225W/324W model |
|---|--|
|  <p>The image shows the rear view of the TDP-225/324 model printer. A red line points to a horizontal slot at the top, labeled '5'. Below this, the rear panel features four ports: a power switch (labeled '1'), a power jack socket (labeled '2'), a USB interface (labeled '3'), and an RS-232C interface (labeled '4').</p> |  <p>The image shows the rear view of the TDP-225W/324W model printer. The rear panel features six ports: a power switch (labeled '1'), a power jack socket (labeled '2'), a USB interface (labeled '3'), an Ethernet interface (labeled '6'), and an RS-232C interface (labeled '3').</p> |
| <p>1. Power switch 2. Power jack socket 3. USB interface 4. RS-232C interface 5. Fan-fold paper entrance chute 6. Ethernet interface (Option for TDP-225/324 model)</p> | |

2. ELECTRONICS

2.1 Summary of Board Connectors

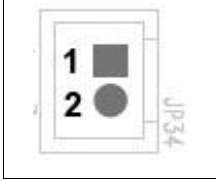
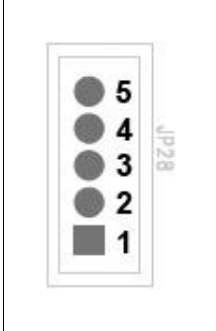
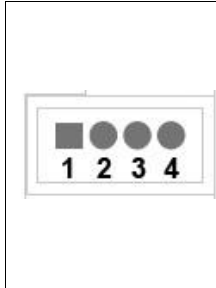
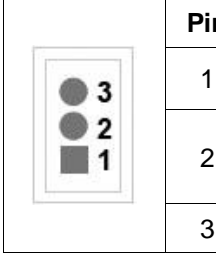
Main board



| Connector | Description | Remark |
|-----------|----------------------------------|--------|
| 1 | USB connector | JP56 |
| 2 | RS-232 interface board connector | JP50 |
| 3 | Gap sensor receiver connector | JP34 |

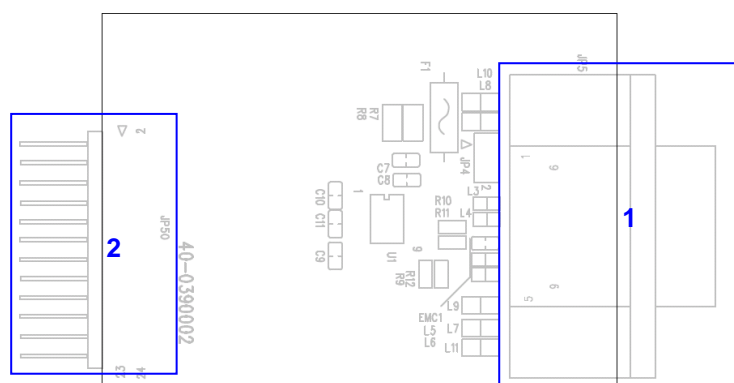
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| |  | <table border="1"> <thead> <tr> <th>Pin</th> <th>Description</th> <th>Voltage</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Power</td> <td>3.3V</td> </tr> <tr> <td>2</td> <td>GAP sensor receiver AD</td> <td>0~3.3V</td> </tr> </tbody> </table> | Pin | Description | Voltage | 1 | Power | 3.3V | 2 | GAP sensor receiver AD | 0~3.3V | | | | | | | | |
|-----|---|---|-----|-------------|---------|---|-------|--|---|---------------------------|--|---|---------------------------|---|---|-------------------------------|--------------------------------|---|-----|
| Pin | Description | Voltage | | | | | | | | | | | | | | | | | |
| 1 | Power | 3.3V | | | | | | | | | | | | | | | | | |
| 2 | GAP sensor receiver AD | 0~3.3V | | | | | | | | | | | | | | | | | |
| 4 | Feed key and LED connector | JP28 | | | | | | | | | | | | | | | | | |
| |  | <table border="1"> <thead> <tr> <th>Pin</th> <th>Description</th> <th>Voltage</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Power</td> <td>3.3V</td> </tr> <tr> <td>2</td> <td>LED green</td> <td>LED light on: 1.1~1.4V LED light off: 1.6~1.9V</td> </tr> <tr> <td>3</td> <td>LED red</td> <td>LED light on: 1.4~1.7V LED light off: 1.8~2.1V</td> </tr> <tr> <td>4</td> <td>Feed switch</td> <td>0V: Push key 3.3V: Stand-by</td> </tr> <tr> <td>5</td> <td>GND</td> <td>0V</td> </tr> </tbody> </table> | Pin | Description | Voltage | 1 | Power | 3.3V | 2 | LED green | LED light on: 1.1~1.4V LED light off: 1.6~1.9V | 3 | LED red | LED light on: 1.4~1.7V LED light off: 1.8~2.1V | 4 | Feed switch | 0V: Push key 3.3V: Stand-by | 5 | GND |
| Pin | Description | Voltage | | | | | | | | | | | | | | | | | |
| 1 | Power | 3.3V | | | | | | | | | | | | | | | | | |
| 2 | LED green | LED light on: 1.1~1.4V LED light off: 1.6~1.9V | | | | | | | | | | | | | | | | | |
| 3 | LED red | LED light on: 1.4~1.7V LED light off: 1.8~2.1V | | | | | | | | | | | | | | | | | |
| 4 | Feed switch | 0V: Push key 3.3V: Stand-by | | | | | | | | | | | | | | | | | |
| 5 | GND | 0V | | | | | | | | | | | | | | | | | |
| 5 | Print head connector | JP55 | | | | | | | | | | | | | | | | | |
| 6 | Micro processor | | | | | | | | | | | | | | | | | | |
| 7 | Stepping motor connector | JP14 | | | | | | | | | | | | | | | | | |
| 8 | Black mark sensor connector | JP17 | | | | | | | | | | | | | | | | | |
| |  | <table border="1"> <thead> <tr> <th>Pin</th> <th>Description</th> <th>Voltage</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Power</td> <td>3.3V</td> </tr> <tr> <td>2</td> <td>Gap sensor emitter</td> <td>Emitter on : 2.1~2.3V Emitter off: 2.6~2.8V</td> </tr> <tr> <td>3</td> <td>Black mark sensor emitter</td> <td>Emitter on : 2.1~2.3V Emitter off: 2.6~2.8V</td> </tr> <tr> <td>4</td> <td>Black mark sensor receiver AD</td> <td>0~3.3V</td> </tr> </tbody> </table> | Pin | Description | Voltage | 1 | Power | 3.3V | 2 | Gap sensor emitter | Emitter on : 2.1~2.3V Emitter off: 2.6~2.8V | 3 | Black mark sensor emitter | Emitter on : 2.1~2.3V Emitter off: 2.6~2.8V | 4 | Black mark sensor receiver AD | 0~3.3V | | |
| Pin | Description | Voltage | | | | | | | | | | | | | | | | | |
| 1 | Power | 3.3V | | | | | | | | | | | | | | | | | |
| 2 | Gap sensor emitter | Emitter on : 2.1~2.3V Emitter off: 2.6~2.8V | | | | | | | | | | | | | | | | | |
| 3 | Black mark sensor emitter | Emitter on : 2.1~2.3V Emitter off: 2.6~2.8V | | | | | | | | | | | | | | | | | |
| 4 | Black mark sensor receiver AD | 0~3.3V | | | | | | | | | | | | | | | | | |
| 9 | Head open sensor connector | JP16 | | | | | | | | | | | | | | | | | |
| |  | <table border="1"> <thead> <tr> <th>Pin</th> <th>Description</th> <th>Voltage</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Power</td> <td>0V to 1.2V to 0V, 10ms square wave continued</td> </tr> <tr> <td>2</td> <td>Head open sensor receiver</td> <td>Head close: 3.3V to under 1.0V to 3.3V, 10ms square wave continued Head open: 3.3V continued</td> </tr> <tr> <td>3</td> <td>GND</td> <td>0V</td> </tr> </tbody> </table> | Pin | Description | Voltage | 1 | Power | 0V to 1.2V to 0V, 10ms square wave continued | 2 | Head open sensor receiver | Head close: 3.3V to under 1.0V to 3.3V, 10ms square wave continued Head open: 3.3V continued | 3 | GND | 0V | | | | | |
| Pin | Description | Voltage | | | | | | | | | | | | | | | | | |
| 1 | Power | 0V to 1.2V to 0V, 10ms square wave continued | | | | | | | | | | | | | | | | | |
| 2 | Head open sensor receiver | Head close: 3.3V to under 1.0V to 3.3V, 10ms square wave continued Head open: 3.3V continued | | | | | | | | | | | | | | | | | |
| 3 | GND | 0V | | | | | | | | | | | | | | | | | |
| 10 | LCD connector (Option) | JP1 | | | | | | | | | | | | | | | | | |
| 11 | Peel-off sensor connector | JP19 | | | | | | | | | | | | | | | | | |

| | | | | |
|----|----------------|------------------|-------------------------------|--|
| | | Pin | Description | Voltage |
| | | 1 | Power | 3.3V |
| | | 2 | Reserved | |
| | | 3 | Peel sensor emitter | Emitter on: 2.1~2.3V Emitter off: 2.6~2.8V |
| | | 4 | Peel sensor receiver AD | 0~3.3V |
| | | 5 | GND | 0V |
| 12 | | Cutter connector | | JP35 |
| | | Pin | Description | Voltage |
| | | 1 | Cutter power | 24V |
| | | 2 | GND | 0V |
| | | 3 | Cutter direction | 0V: Cutter positive cut 5V: Cutter negative cut |
| | | 4 | Cutter enable | 0V: Cutter work 5V: Cutter stop |
| | | 5 | Cutter position sensor switch | 0V: Cutter stop 3.3V: Cutter work |
| | | 6 | GND | 0V |
| | | 7 | Logic power | 5V |
| | | 8 | Reserved | |
| 13 | microSD socket | | | JP2 |

Standard board

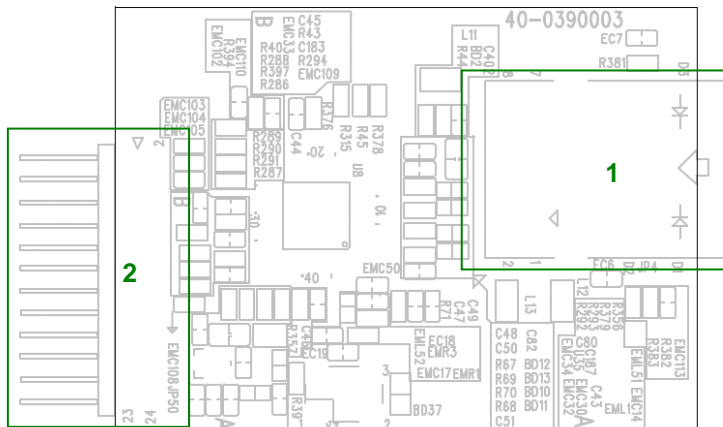


| Connector | Description | Remark |
|-----------|----------------------|--------|
| 1 | RS232 connector | JP5 |
| 2 | Main board connector | JP50 |

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Option board



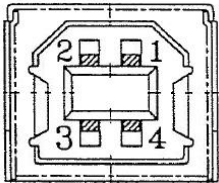
| Connector | Description | Remark |
|-----------|--------------------------|--------|
| 1 | Ethernet connector/RJ-45 | JP4 |
| 2 | Main board connector | JP50 |

2.2 Pin Configuration

RS-232

| PIN | CONFIGURATION |
|-----|---------------|
| 1 | +5 V |
| 2 | TXD |
| 3 | RXD |
| 4 | CTS |
| 5 | GND |
| 6 | RTS |
| 7 | N/C |
| 8 | RTS |
| 9 | N/C |

USB

| | PIN | CONFIGURATION |
|---|-----|---------------|
|  | 1 | N/C |
| | 2 | D- |
| | 3 | D+ |
| | 4 | GND |

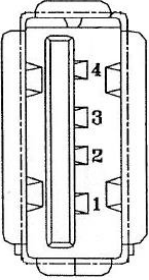
Ethernet (Option)

| PIN | CONFIGURATION |
|-----|---------------|
| 1 | Tx+ |
| 2 | Tx- |
| 3 | Rx+ |
| 4 | N/C |
| 5 | N/C |
| 6 | Rx- |
| 7 | N/C |
| 8 | N/C |

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USB host (TDP-225W/324W/Option)

|  | PIN | CONFIGURATION |
|---|-----|---------------|
| | 1 | +5V |
| | 2 | D- |
| | 3 | D+ |
| | 4 | GND |

3. MECHANISM

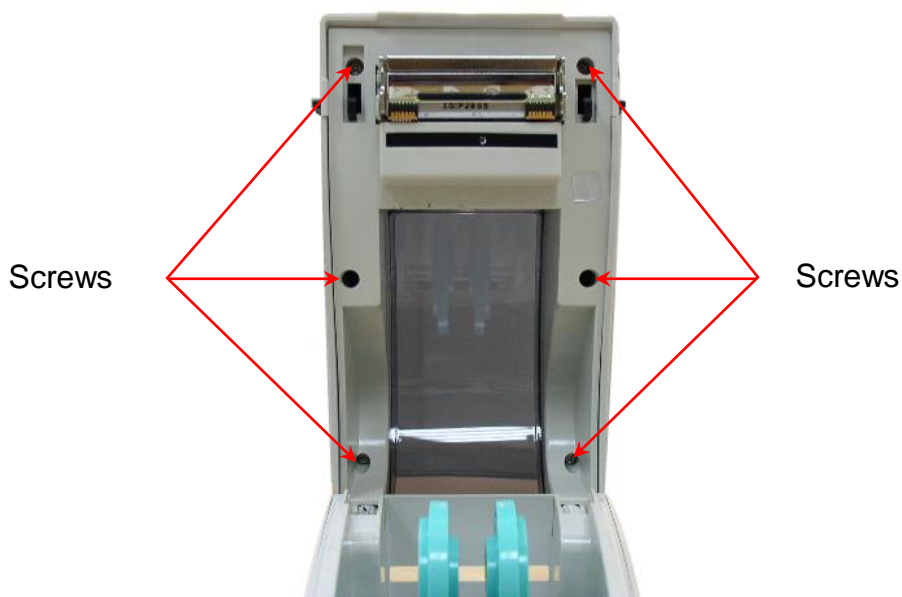
Please turn off the power switch and unplug the power adapter before replacing parts.

3.1 Replacing Feed Button PCB (Feed Button PCB with LCD Module/ Option for TDP-225/324 Model)

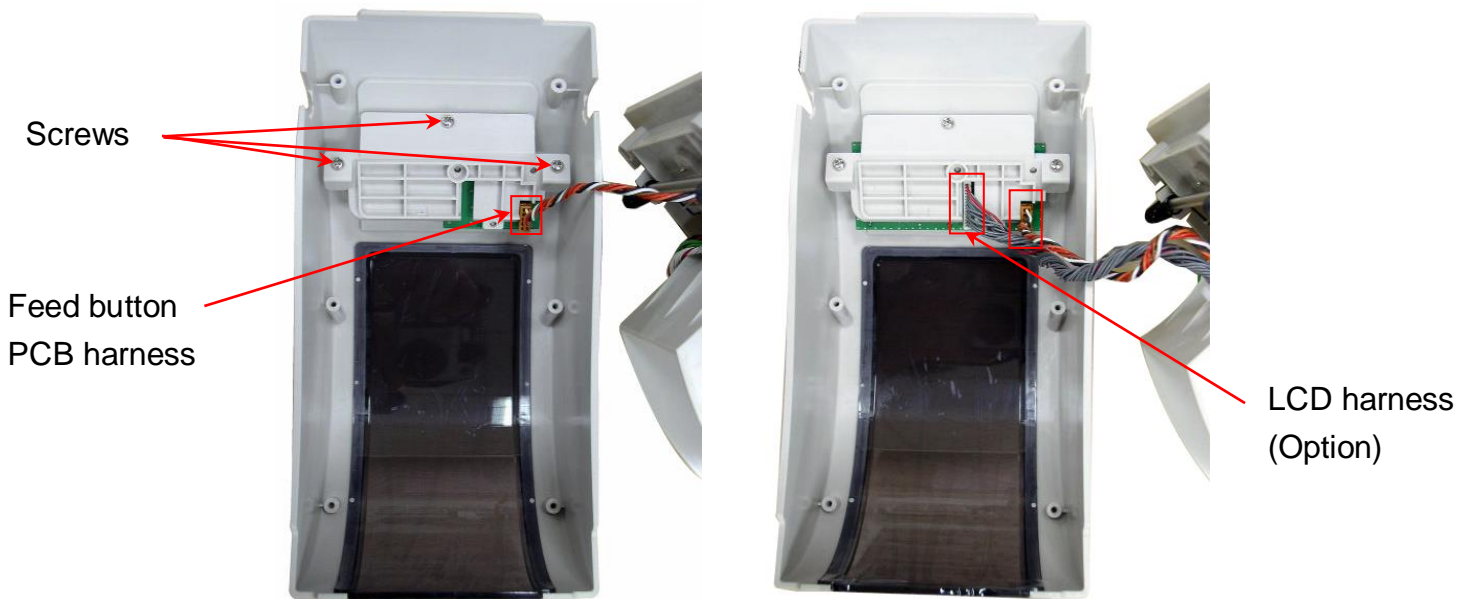
1. Open the printer top cover by pulling the tabs located on each side towards the front of the printer, and then lift the top cover to the maximum open angle.



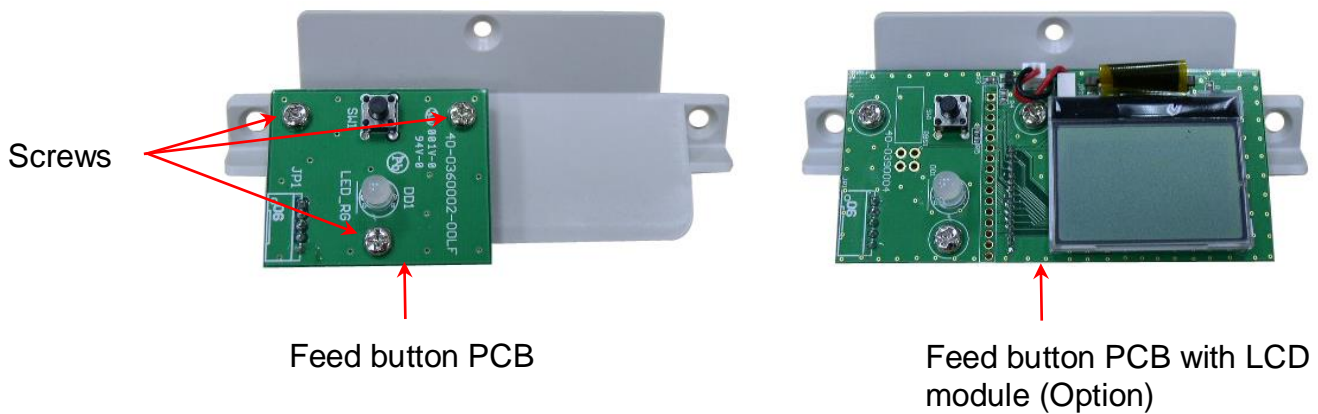
2. Use the screwdriver to remove the 6 screws from the top inner cover.



3. Disconnect the harness from the feed button PCB and remove the 3 screws from the feed button PCB holder.



4. Remove three screws that fixed the feed button PCB to the holder.

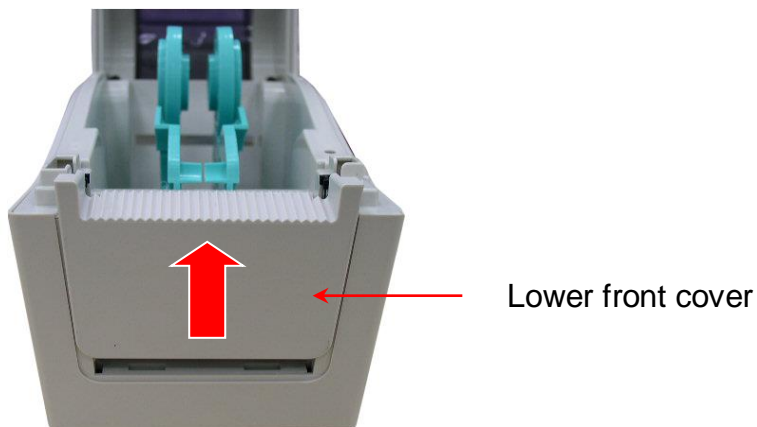


5. Replace the feed button PCB or feed button PCB with LCD module.

6. Reassemble the parts in the reverse procedure.

3.2 Replacing the Main Board and RS-232 (Ethernet interface board/ Option for TDP-225/324 model)

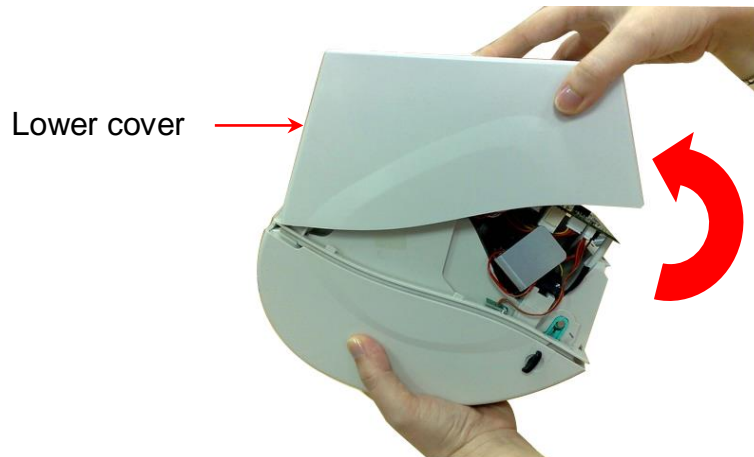
1. Open the top cover and remove the lower front cover.



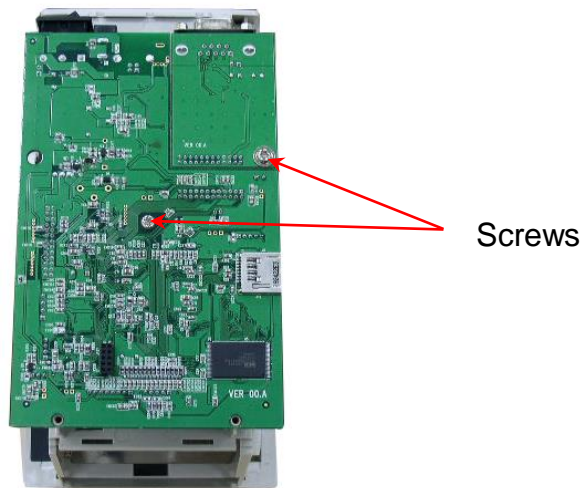
2. Close the top cover. Then turn the printer upside down and use the screwdriver to remove the 4 screws from lower cover.



3. Remove the lower cover.

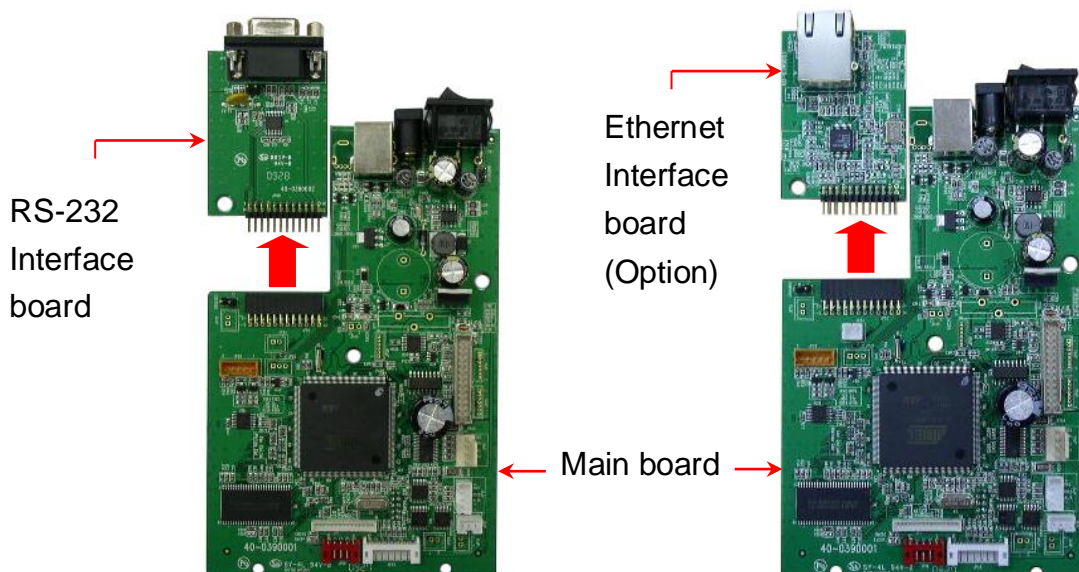


4. Remove 2 screws from the main board and RS-232/Ethernet interface board.

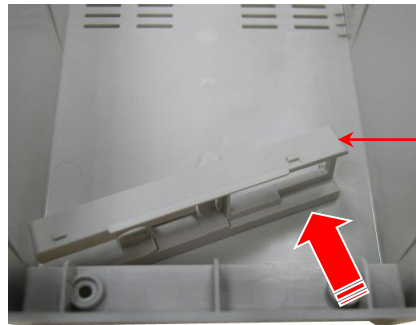


5. Disconnect all connectors from the main board.

6. Remove/Replace the main board and RS-232/Ethernet interface board.



7. Take off the interface plate from the lower cover.



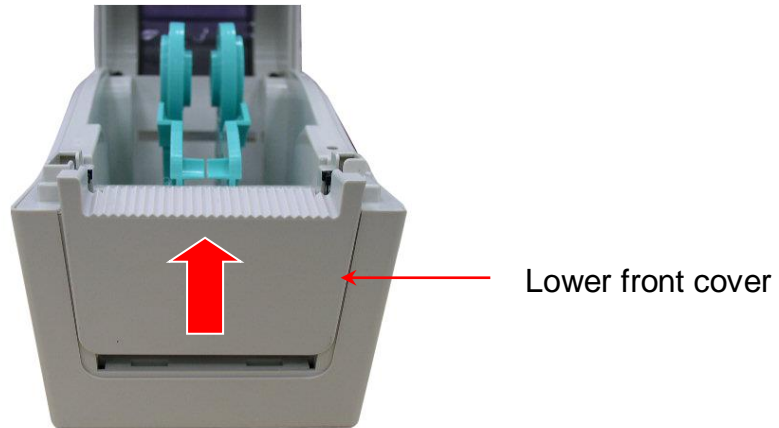
Interface plate

8. Reassemble the PCB, lower cover and lower front cover in reverse procedures.
9. Insert the under side of interface plate first then push the upper side of interface plate to replace it.

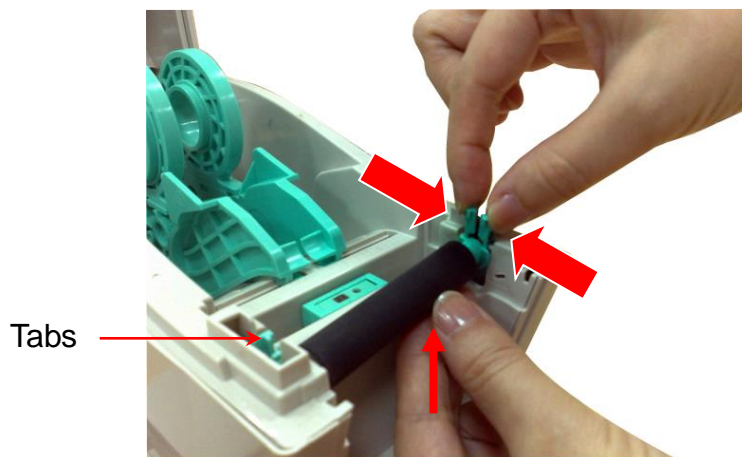


3.3 Replacing the Platen Roller Assembly

1. Open the printer top cover and remove the lower front cover.



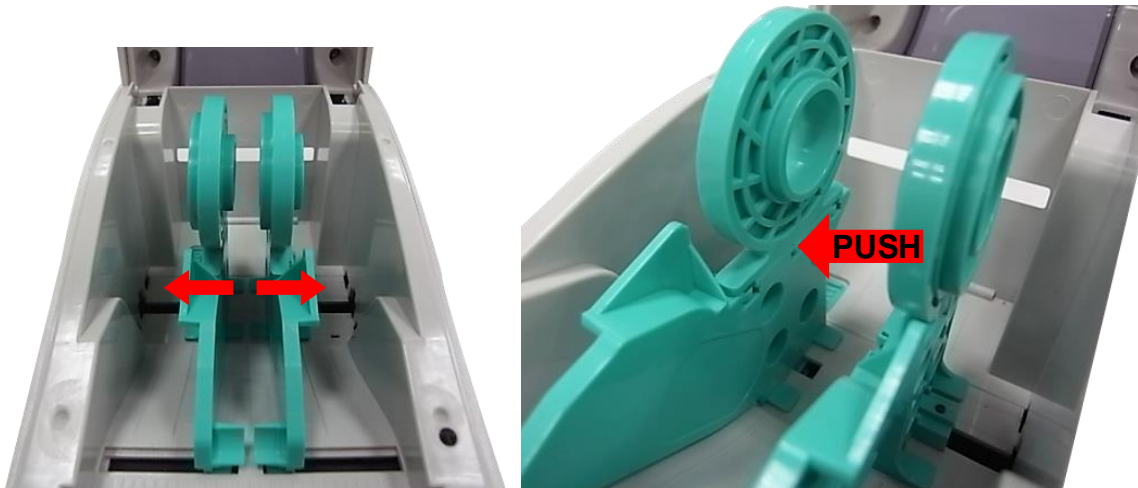
2. Take out the platen roller assembly from the lower inner cover by pressing on the right side and left side holder tabs of platen.



4. Replace a new platen roller assembly.
5. Reassemble the parts in the reverse procedures.

3.4 Replacing the Media Holder Hub (For TDP-225/324 model)

1. Open the printer top cover.
2. Hold the media holder and push the bottom of the media holder hub to remove the media holder hub.



3. Refer to the same steps to remove the other media holder hub.



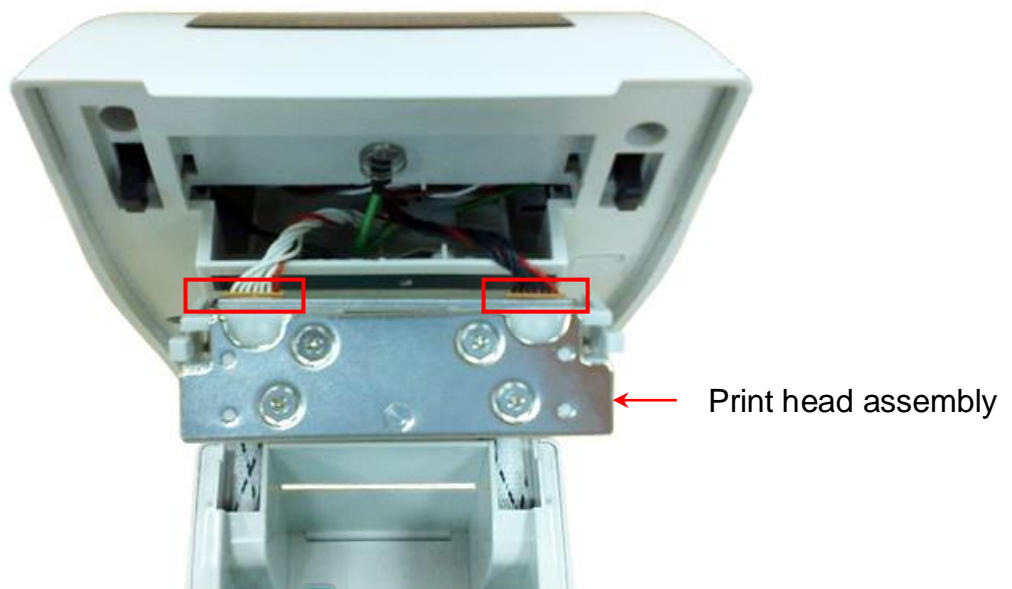
4. Reassemble the parts in the reverse procedures.

3.5 Replacing the Print Head Assembly

1. Open the printer top cover.
2. Press left concave of the print head bracket then pick up the print head assembly.



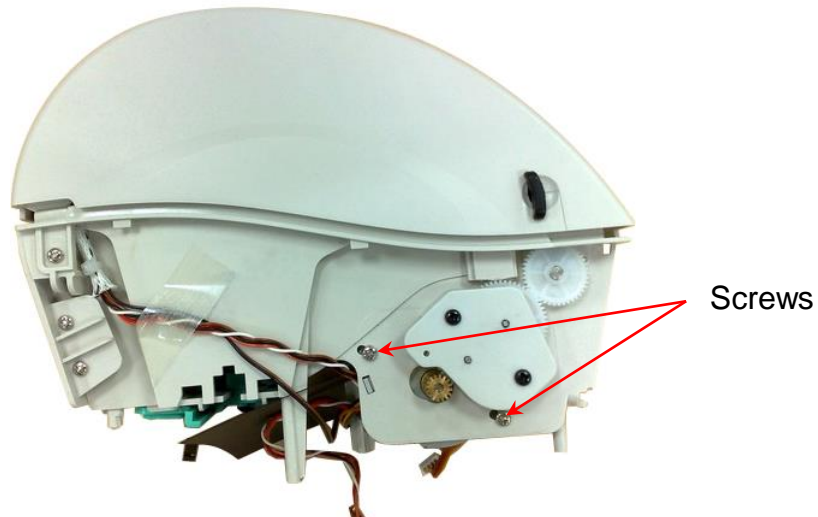
3. Disconnect the print head harness. Replace the print head assembly.



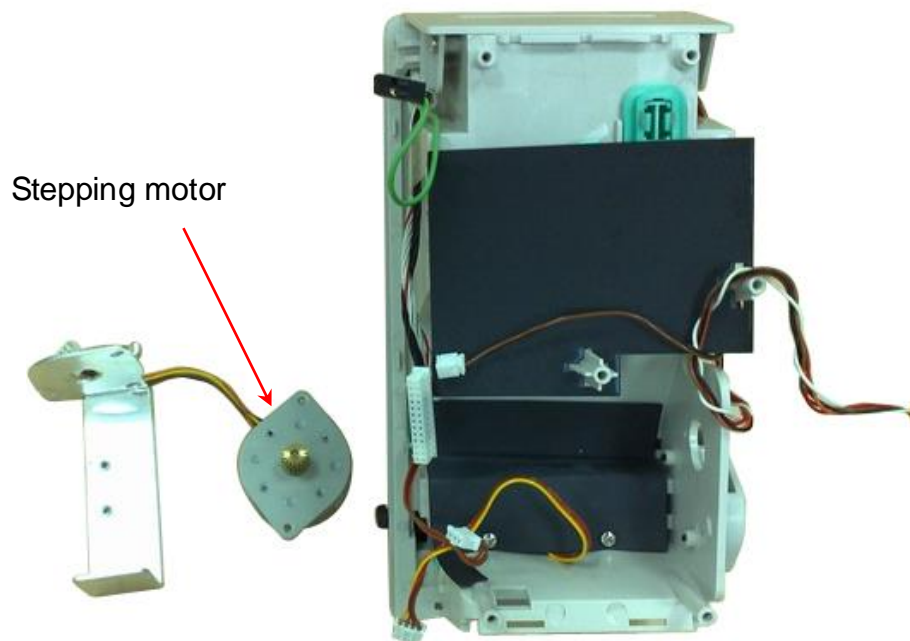
4. Reassemble the parts in the reverse procedures.

3.6 Replacing the Stepping Motor

1. Refer to section 3.2 to remove main board and RS-232/Ethernet interface board.
2. Use the screwdriver to remove the 2 screws.



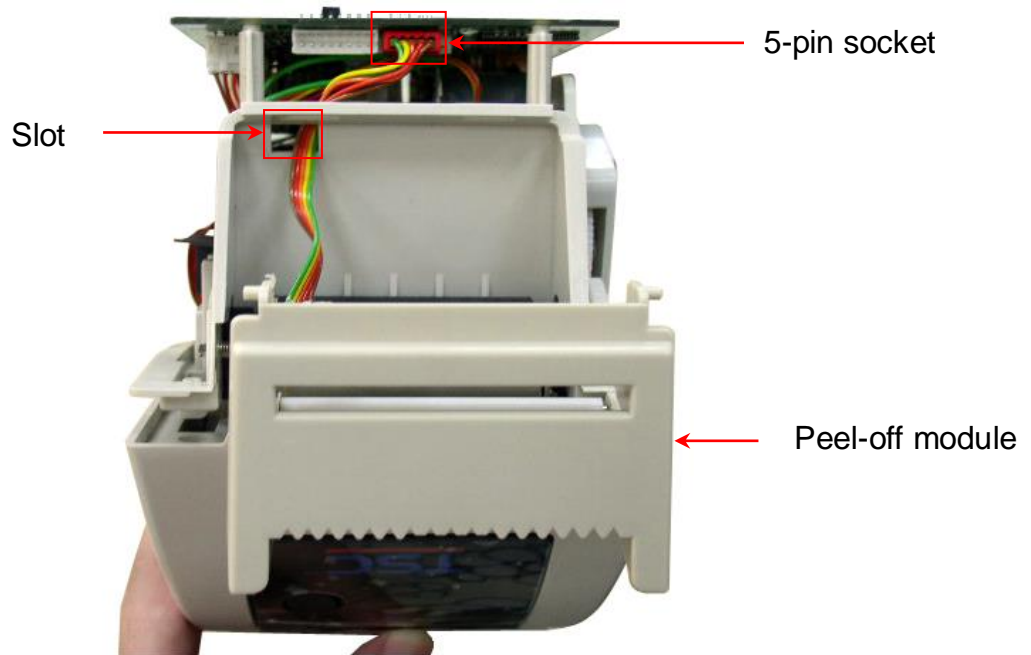
3. Remove/Replace the stepping motor.



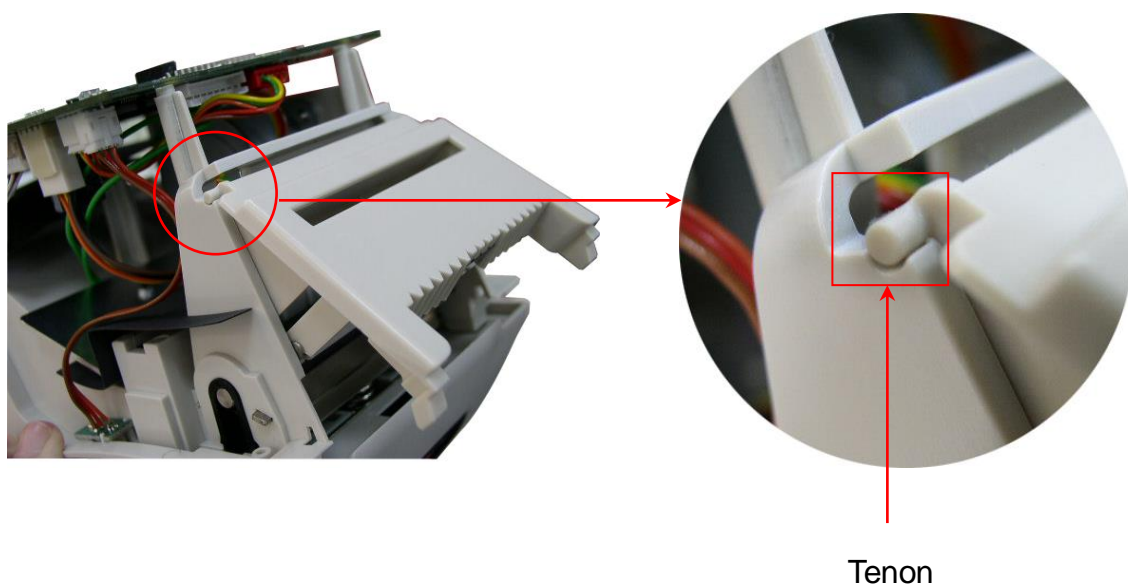
4. Reassemble the parts in the reverse procedures.

3.7 Peel-off Module Installation (Option)

1. Refer to section 3.2 to remove the lower cover.
2. Thread the 5-pin peel-off module harness through the front slot of lower inner cover. Plug in the peel-off module harness connector to the 5-pin red socket on the main board.



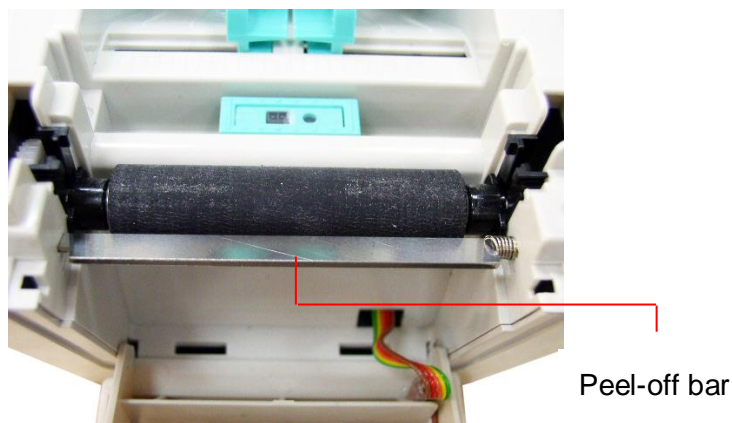
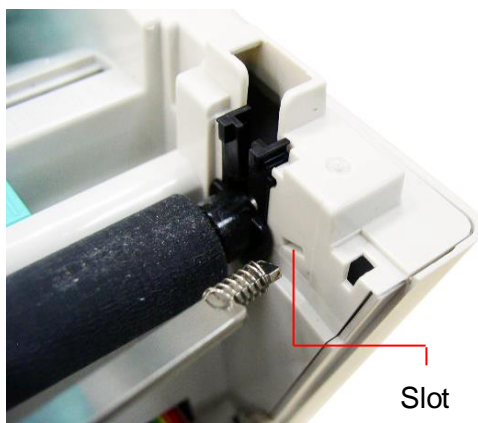
3. Embed the tenons into the both sides mortise of lower inner cover.



4. Then, put back the lower inner cover. Fasten the 4 screws and Insert the interface plate.



5. Open the top cover and peel-off cover. Install the peel-off bar into the both slots of lower inner cover. Install the right side with spring first.



6. Stick the black label on the top inner cover above the print head.

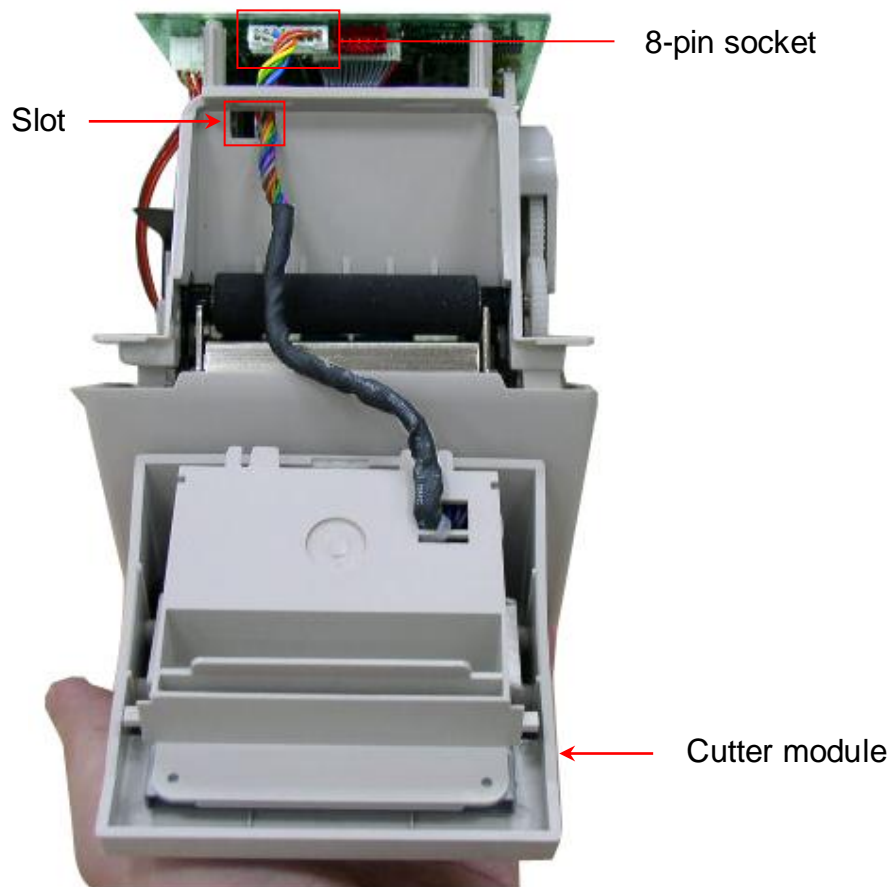


7. Place the printer in the flat and secured desktop for media loading and printing.

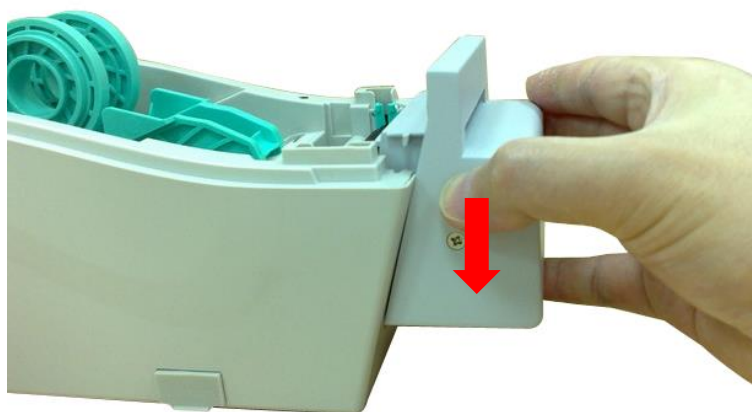


3.8 Cutter Module Installation (Option)

1. Refer to section 3.2 to remove the lower cover.
2. Thread the cutter module 8-pin harness through the front slot of lower inner cover. Connect the cutter module harness connector to the 8-pin white socket on the printer main board.



3. Then, put back the lower inner cover. Place the cutter module into the both sides notches of lower inner cover, then push cutter to lock into the lower inner cover.



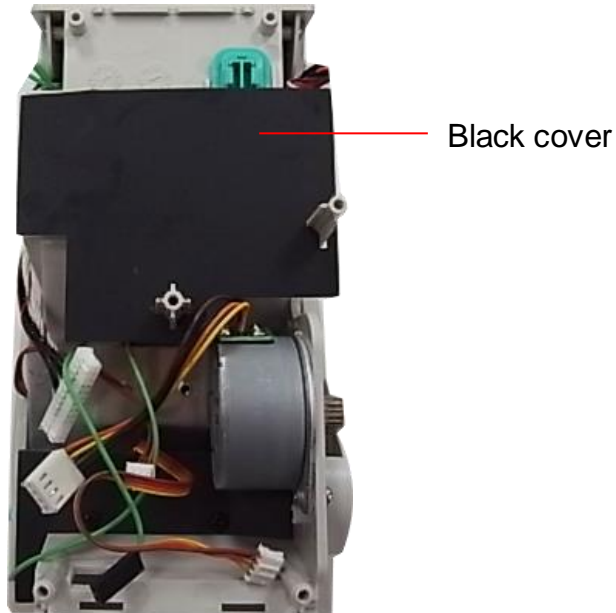
- 4 Place the printer in the flat and secured desktop for media loading and printing.

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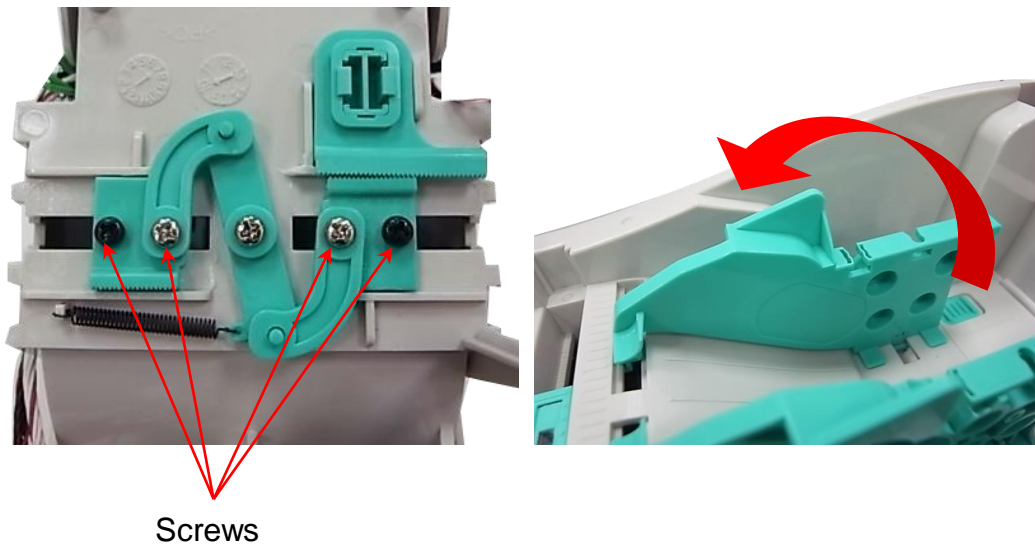


3.9 Replacing the Media Holder

1. Refer to section 3.2 to remove main board and RS-232/Ethernet interface board.
2. Take off the black cover under the main board and RS-232/Ethernet interface board.



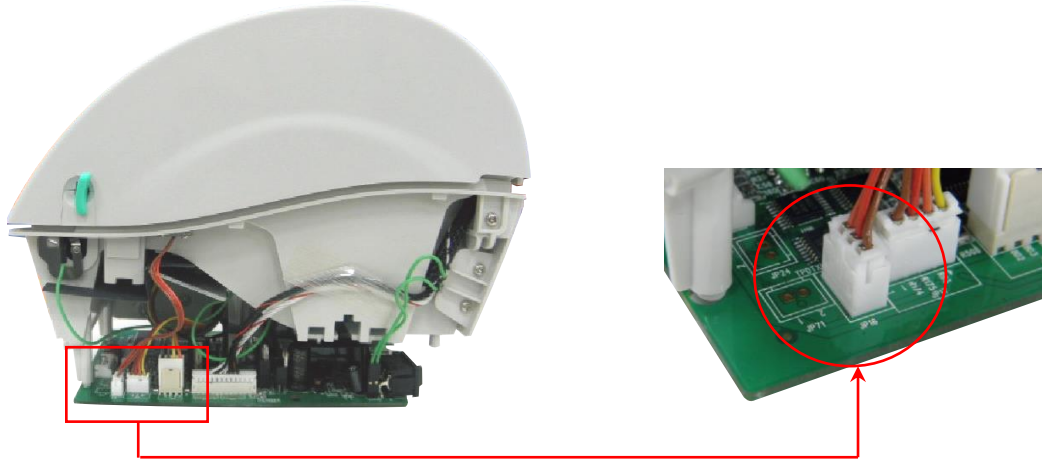
3. Remove 4 screws to take the right and left media holder off.



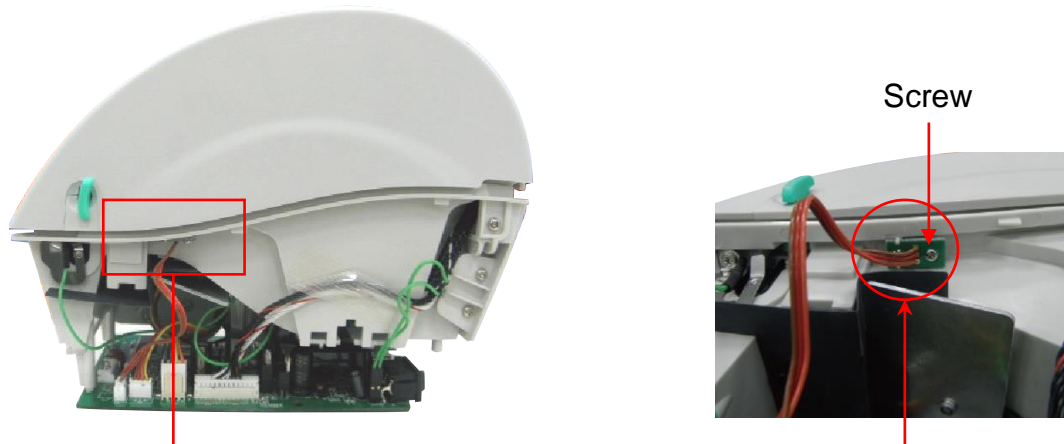
4. Reassemble the parts in the reverse procedures.

3.10 Replacing the Head Open Sensor

1. Refer to section 3.2 to remove the lower cover.
2. Remove head open sensor connector. (JP16)



3. Remove 1 screw to remove and replace open head sensor.



4. Reassemble the parts in the reverse procedure.

4. TROUBLESHOOTING

The following guide lists the most common problems that might be encountered when operating this bar code printer. If the printer still does not function after all suggested solutions have been invoked, please contact the Customer Service Department of your purchased reseller or distributor for assistance.

4.1 LED Status

This section lists the common problems that according to the LED status and other problems you may encounter when operating the printer. Also, it provides solutions.

| LED Status / Color | Printer Status | Possible Cause | Recovery Procedure |
|---------------------|----------------|--|--|
| OFF | No response | No power | <ul style="list-style-type: none"> * Turn on the power switch. * Check if the green LED is lit on power supply. If it is not lit on, power supply is broken. * Check both power connections from the power cord to the power supply and from the power supply to the printer power jack if they are connected securely. |
| Solid Green | ON | The printer is ready to use | * No action necessary. |
| Green with blinking | Pause | The printer is paused | * Press the FEED button to resume for printing. |
| Red with blinking | Error | The out of label or ribbon or the printer setting is not correct | <ol style="list-style-type: none"> 1. Out of label or ribbon <ul style="list-style-type: none"> * Load a roll of label and follow the instructions in loading the media then press the FEED button to resume for printing. * Load a roll of ribbon and follow the instructions in loading the ribbon then press the FEED button to resume for printing. 2. Printer setting is not correct <ul style="list-style-type: none"> * Initialize the printer by instructions in “Power on Utility” or “Diagnostic Tool”. |

Note:

Printer status can be easily shown on the Diagnostic Tool. For more information about the Diagnostic Tool, please refer to the instruction in the software CD disk.

4.2 Print Quality

| Problem | Possible Cause | Recovery Procedure |
|----------------------------------|--|--|
| Not Printing | Check if interface cable is well connected to the interface connector. | Re-connect cable to interface. |
| | The serial port cable pin configuration is not pin to pin connected. | Please replace the cable with pin to pin connected. |
| | The serial port setting is not consistent between host and printer. | Please reset the serial port setting. |
| | The port specified in the Windows driver is not correct. | Select the correct printer port in the driver. |
| | The Ethernet IP, subnet mask, gateway is not configured properly. | Configure the IP, subnet mask and gateway. |
| No print on the label | Label loaded not correctly. | Follow the instructions in loading the media. |
| Continuous feeding labels | The printer setting may go wrong. | Please do the initialization and gap/black mark calibration. |
| Paper Jam | Gap/black mark sensor sensitivity is not set properly (sensor sensitivity is not enough) | Calibrate the gap/black mark sensor. |
| | Make sure label size is set properly. | Set label size exactly as installed paper in the labeling software or program. |
| | Labels may be stuck inside the printer mechanism near the sensor area. | Remove the stuck label. |
| Poor Print Quality | Top cover is not closed properly. | Close the top cover completely and make sure the right side and left side levers are latched properly. |
| | Wrong power supply is connected with printer. | Check if 24V DC output is supplied by the power supply. |
| | Check if supply is loaded correctly. | Reload the supply. |
| | Check if dust or adhesives are accumulated on the print head. | Clean the print head. |

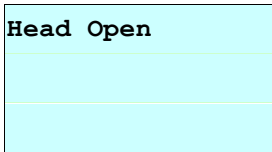
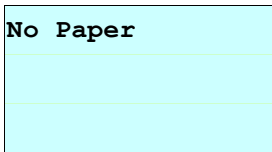
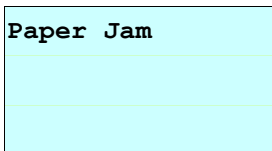
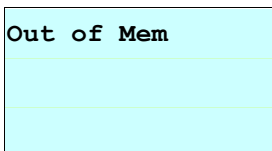
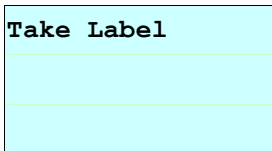
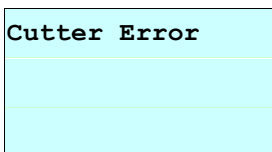
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| | | |
|--|---|---|
| | Check if print density is set properly. | Adjust the print density and print speed. |
| | Check print head test pattern if head element is damaged. | Run printer self-test and check the print head test pattern if there is dot missing in the pattern. |

4.3 LCD display (Option for TDP-225/324 model)

This section lists the LCD display messages that you may encounter when operating the printer. Also, it provides solutions.

| Messages | Possible Cause | Recovery Procedure |
|---|--|--|
|  | <ul style="list-style-type: none"> * The printer top cover is open. | <ul style="list-style-type: none"> * Please close the top cover. |
|  | <ul style="list-style-type: none"> * Running out of label. * The label is installed incorrectly. * Gap/black mark sensor is not calibrated. | <ul style="list-style-type: none"> * Supply a new label roll. * Please refer to the steps in user's manual to reinstall the label roll. * Calibrate the gap/black mark sensor. |
|  | <ul style="list-style-type: none"> * Gap/black mark sensor is not set properly. * Make sure label size is set properly. * Labels may be stuck inside the printer mechanism. | <ul style="list-style-type: none"> * Calibrate the gap/black mark sensor. * Set label size correctly. |
|  | <ul style="list-style-type: none"> * The space of FLASH/DRAM or MicroSD card is full. | <ul style="list-style-type: none"> * Delete unused files in the FLASH/DRAM or MicroSD card. |
|  | <ul style="list-style-type: none"> * Peel function is enabled. Waiting user to take label away to print the next label. | <ul style="list-style-type: none"> * Please take the label away to print the next label if peeler module is installed. * If peeler module is installed and label is been taken away, but the message remains. Please check if the peeler module connector is connected to main board properly. * If peeler module is not installed, please disable the peeler function. |
|  | <ul style="list-style-type: none"> * Cutter jam. * There is no cutter installed on the printer. * Cutter or cutter driver circuit board is damaged. | <ul style="list-style-type: none"> * Remove the jammed label. * Make sure the media thickness is equal or less than 0.19mm. * Replace the cutter or cutter driver circuit board. |

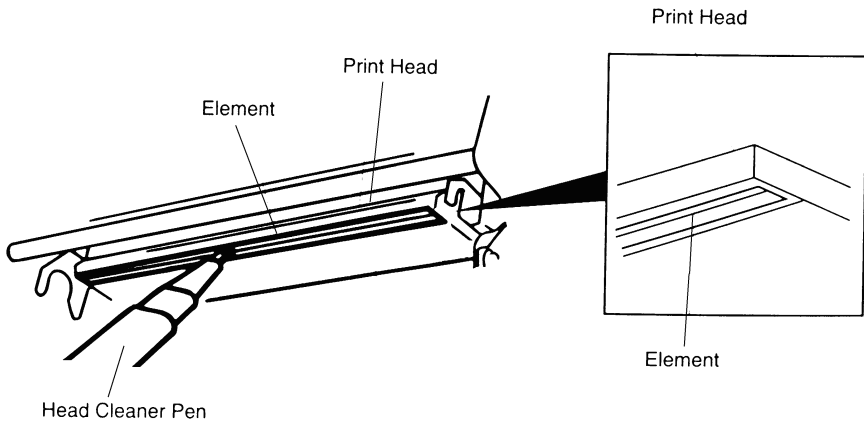
5. MAINTENANCE

This session presents the clean tools and methods to maintain your printer.

1. Please use one of following material to clean the printer.

- Cotton swab (Head cleaner pen)
- Lint-free cloth
- Vacuum / Blower brush
- 100% ethanol

2. The cleaning process is described as following

| Printer Part | Method | Interval |
|--|---|---|
| <p>Print Head</p> | <p>1. Always turn off the printer before cleaning the print head. 2. Allow the print head to cool for a minimum of one minute. 3. Use a cotton swab and 100% ethanol to clean the print head surface.</p> | <p>Clean the print head when changing a new label roll</p> |
|  | | |
| <p>Platen Roller</p> | <p>1. Turn the power off. 2. Rotate the platen roller and wipe it thoroughly with 100% ethanol and a cotton swab, or lint-free cloth.</p> | <p>Clean the platen roller when changing a new label roll</p> |
| <p>Tear Bar/Peel Bar</p> | <p>Use the lint-free cloth with 100% ethanol to wipe it.</p> | <p>As needed</p> |

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| | | |
|-----------------|-----------------------------------|-----------|
| Sensor | Compressed air or vacuum | Monthly |
| Exterior | Wipe it with water-dampened cloth | As needed |
| Interior | Brush or vacuum | As needed |

Note:

- Do not touch printer head by hand. If you touch it careless, please use ethanol to clean it.
- Please use 100% Ethenol. DO NOT use medical alcohol, which may damage the printer head.
- Regularly clean the print head and supply sensors once change a new ribbon to keep printer performance and extend printer life.
- The maximum printing ratio per dot line is 15% for this printer. To print the full web black line, the maximum black line height is limited to 40 dots, which is 5mm for 203 DPI resolution printer.

UPDATE HISTORY

| Date | Content | Editor |
|-------------------|---|---------|
| 2009/9/24 | * Add TDP-225W model * Add 4.3 section | Camille |
| 2009/9/30 | Modify 3.7 section | Camille |
| 2009/10/7 | Modify section 2.1 | Camille |
| 2011/1/25 | Modify TSC address | Camille |
| 2011/4/7 | Modify section 2.2 | Camille |
| 2012/6/28 | Add section 3.4 and 3.9 | Cinya |
| 2012/12/05 | Add section 3.10 | Tina |
| 2014/6/3 | Add TDP-324/324W model | Camille |
| 2014/11/4 | Modify section 1.3 | Camille |
| | | |



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