

ME240/ ME340

THERMAL TRANSFER / DIRECT THERMAL BAR CODE PRINTER

SERVICE MANUAL

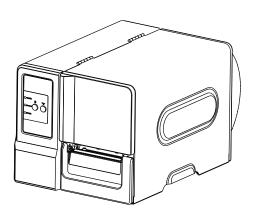


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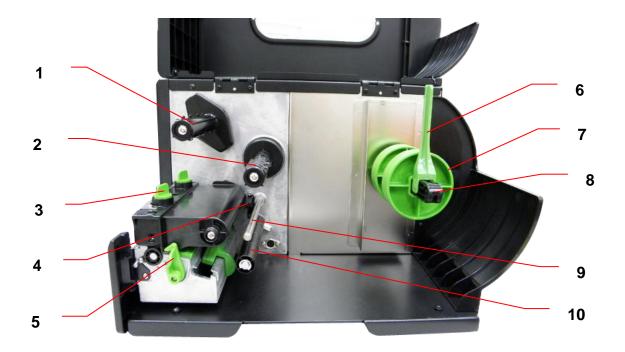
1. FUNDAMENTAL OF THE SYSTEM

1.1. Overview

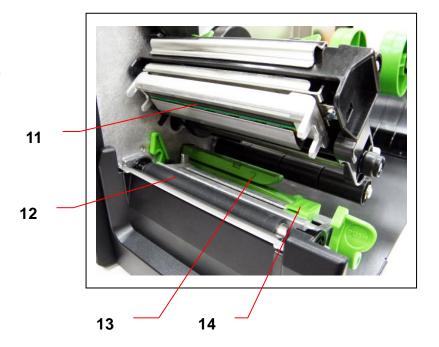
Front View



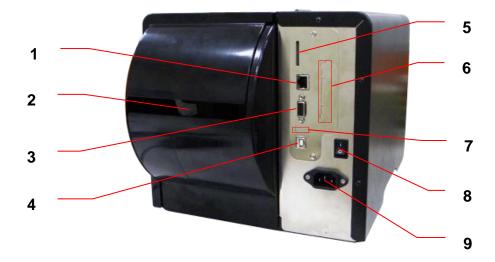
Interior View



- 1. Ribbon rewind spindle
- 2. Ribbon supply spindle
- 3. Print head pressure adjustment knob
- 4. Ribbon end sensor
- 5. Print head release lever
- 6. Label roll guard
- 7. 3" core adapter
- 8. Label supply spindle
- 9. Ribbon guide bar
- 10. Media guide bar
- 11. Print head
- 12. Platen roller
- 13. Media sensor
- 14. Label guide



Rear View



- 1. Internal Ethernet interface (Option)
- 2. Fan-fold paper entrance chute
- 3. RS-232C interface (Max. 115,200 bps)
- 4. USB interface (USB 2.0/ Full speed mode)
- *5. SD card slot
- 6. Centronics interface (Option)
- 7. USB host (Option)
- 8. Power switch
- 9. Power jack socket

Note:

The interface picture here is for reference only. Please refer to the product specification for the interfaces availability.

* Recommended SD card specification.

SD card spec	SD card capacity	Approved SD card manufacturer
V1.0, V1.1	128 MB	SanDisk, Transcend
V1.0, V1.1	256 MB	SanDisk, Transcend, Panasonic
V1.0, V1.1	512 MB	SanDisk, Transcend, Panasonic
V1.0, V1.1	1 GB	SanDisk, Transcend, Panasonic
V2.0 SDHC CLASS 4	4 GB	
V2.0 SDHC CLASS 6	4 GB	SanDisk, Transcend, Panasonic
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	Panasonic

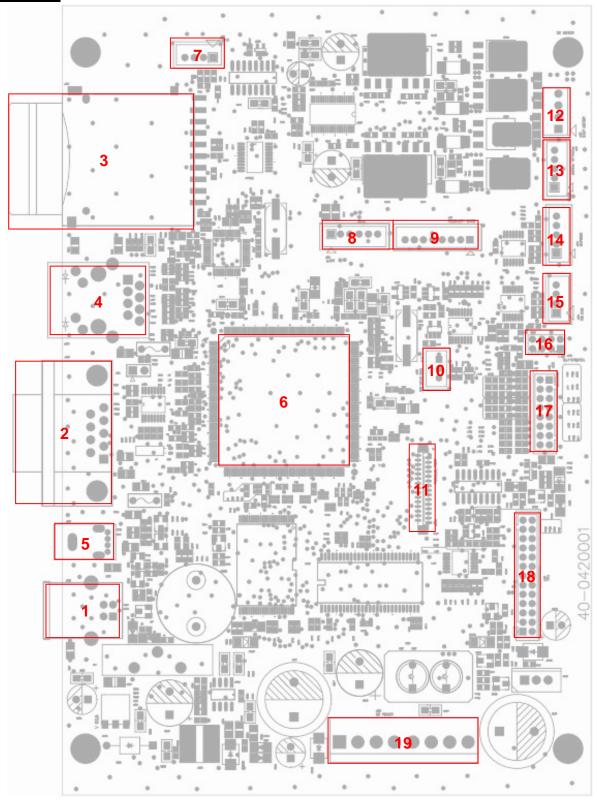
V1.0, V1.1	microSD 1 GB	Transcend, Panasonic
V2.0 SDHC CLASS 4	microSD 4 GB	Panasonic
V2.0 SDHC CLASS 6	microSD 4 GB	Transcend
V1.0, V1.1	miniSD 128 MB	Transcend, Panasonic
V1.0, V1.1	miniSD 256 MB	Transcend, Panasonic
V1.0, V1.1	miniSD 512 MB	Transcend, Panasonic
V1.0, V1.1	miniSD 1 GB	Transcend, Panasonic
V2.0 SDHC CLASS 4	miniSD 4 GB	Transcend
V2.0 SDHC CLASS 6	miniSD 4 GB	

- 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.
- The miniSD/microSD card adapter is required for SD card reader.

2. ELECTRONICS

2.1 Summary of Board Connectors

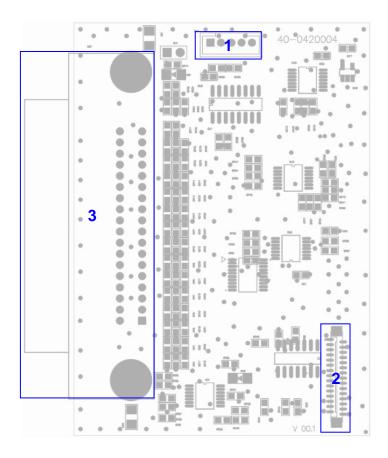
Main board



Connector	Description			
1	USB connector			
2	RS-232C connector			
3	SD card slot			
4	Ethernet RJ-45 connector (Option)			
5	USB host connector (Option)			
6	Micro processor			
	Head open sensor connector			
		Pin	Description	Voltage
7	HEAD HEAD	1	Head open sensor emitter power pin	1.2~1.4V
,		2	GND	0V
		3	Head open sensor receiver	0V: Head close 3.3V: Head open
		4	GND	OV
8	RFID module connector			
9	Recovery connector			
	Ribbon near end sensor conne	ctor		
		Pin	Description	Voltage
10		1	GND	0V
	NEAR END	2	Encoder signal	3.3V
			_	3.3V
	Z	3	Power	
11	Centronics soft cable connecto			
11 12	<u> </u>			
	Centronics soft cable connecto	r (Optio		
12	Centronics soft cable connector Stepping motor connector	r (Optio		
12	Centronics soft cable connector Stepping motor connector Centronics power connector (C	r (Optio	n)	
12	Centronics soft cable connector Stepping motor connector Centronics power connector (C	r (Optio		Voltage 5V
12	Centronics soft cable connector Stepping motor connector Centronics power connector (C	ption)	Description	Voltage 5V 4.0~4.1V: Emitter on 4.3~4.4V: Emitter off
12 13	Centronics soft cable connector Stepping motor connector Centronics power connector (C	Pin	Description Power	Voltage 5V 4.0~4.1V: Emitter on
12 13	Centronics soft cable connector Stepping motor connector Centronics power connector (C	Pin 1 2	Description Power Gap sensor emitter	Voltage 5V 4.0~4.1V: Emitter on 4.3~4.4V: Emitter off 4.0~4.1V: Emitter on
12	Centronics soft cable connector Stepping motor connector Centronics power connector (C	Pin 1 2 3	Description Power Gap sensor emitter Black mark sensor emitter Gap and black mark	Voltage 5V 4.0~4.1V: Emitter on 4.3~4.4V: Emitter off 4.0~4.1V: Emitter on 4.3~4.4V: Emitter off

		Pin	Description	Voltage
	ason RB FND	1	Ribbon sensor receiver	A/D: 0~3.3V
		2	Ribbon sensor emitter power pin	5V
		3	GND	0V
		4	Ribbon sensor emitter	4.0~4.1V: Emitter on 4.3~4.4V: Emitter off
	Cutter/peel-off sensor connect	or		
		Pin	Description	Voltage
		1	GND	0V
		2	Cutter power	24V
		3	Peel sensor emitter	4.0~4.1V: Emitter on 4.3~4.4V: Emitter off
16		4	Logic power	5V
	J500 CUTTER&PEEL	5	Cutter position sensor switch	0V: Cutter stop 3.3V: Cutter work
		6	Peel sensor receiver	A/D: 0~3.3V
		7	Cutter enable	0V: Cutter work 5V: Cutter stop
		8	Cutter direction	0V: Cutter positive cut 5V: Cutter negative cut
17	LCD panel connector			
18	Print head signal connector	Print head signal connector		
19	Power supply output (24V DC)	Power supply output (24V DC) connector		

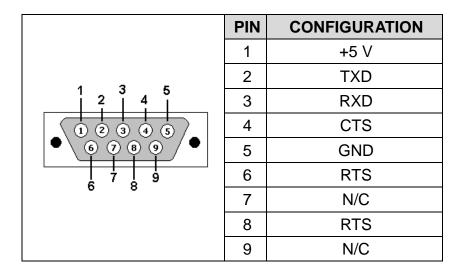
Centronics-interface board



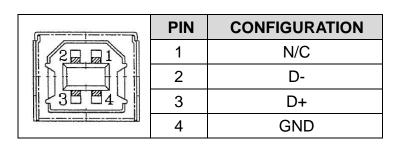
Connector	Description	Remark
1	Centronics soft cable connector	
2	Centronics power connector	
3	Centronics port connector	

2.2 Pin Configuration

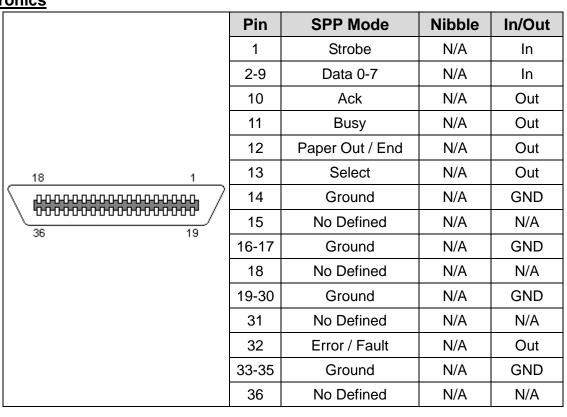
RS-232C



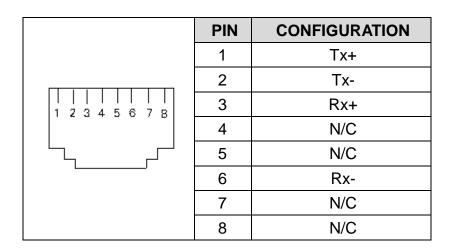
<u>USB</u>



Centronics

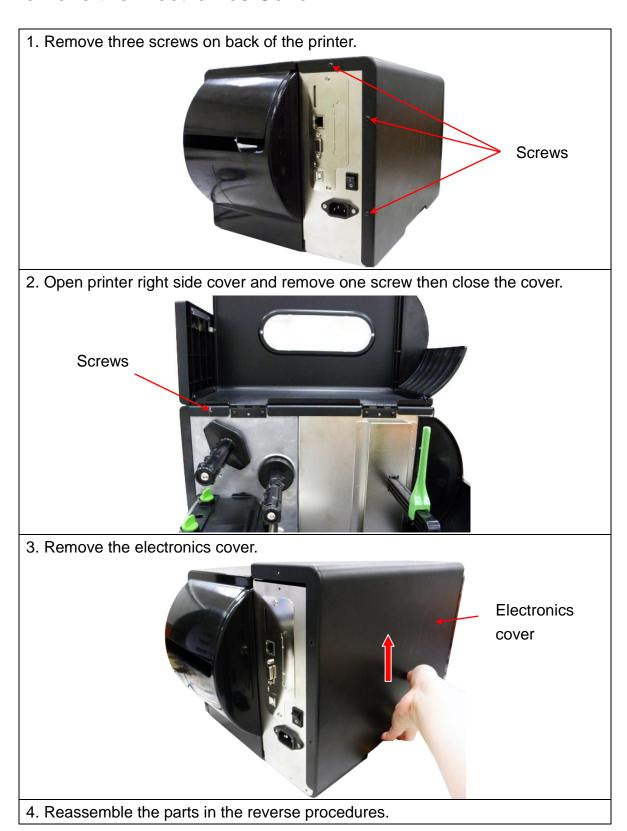


Ethernet

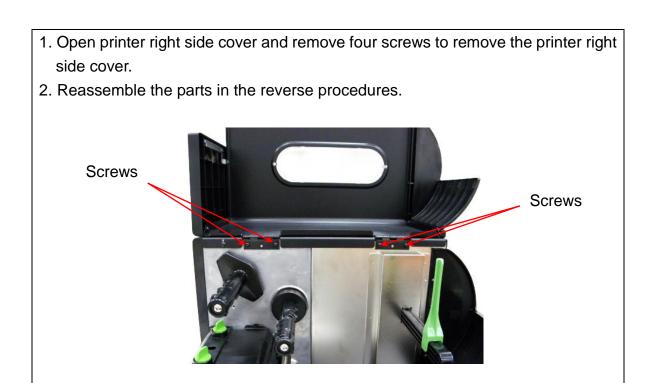


3. MECHANISM

3.1Remove the Electronics Cover

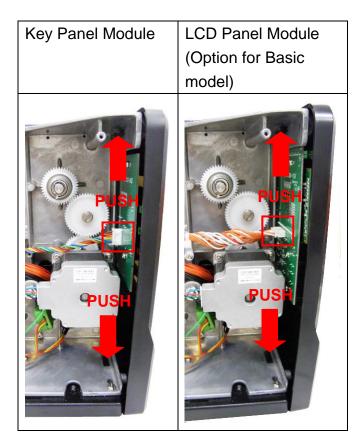


3.2 Remove the Right Side Cover



3.3 Replacing the Key/LCD Panel Module

- 1. Refer to section 3.1 to remove the electronics cover.
- 2. Disconnect harness from the Key/LCD panel module.
- 3. Push two tabs to remove/replace the Key/LCD panel module.



4. Reassemble the parts in the reverse procedures.

3.4 Replacing the Main Board

- 1. Refer to section 3.1 to remove electronics cover.
- 2. Remove two screws on the power jack socket then pull out the socket.





3. Disconnect all connectors from the main board.

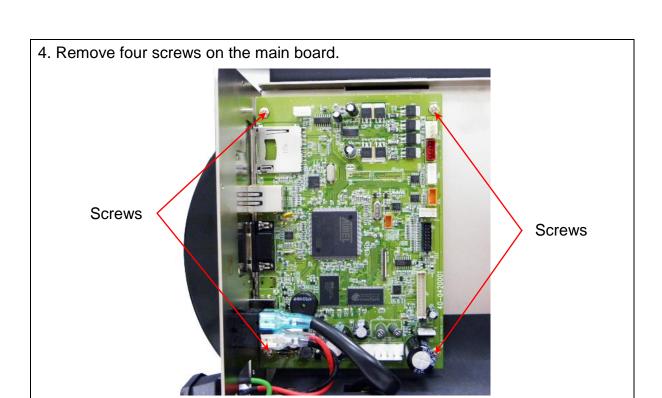
Note:

You should press the tab of power supply harness when disconnect the power supply connector.



The connector to power supply

The tab of harness



- 4. Replace the main board.
- 5. Reassemble the parts in the reverse procedures.

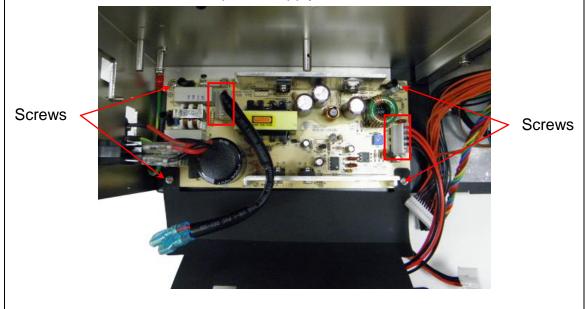
3.5 Replacing the Power Supply Unit

- 1. Refer to section 3.4 to remove the main board.
- 2. Disconnect two connectors from the power switch.





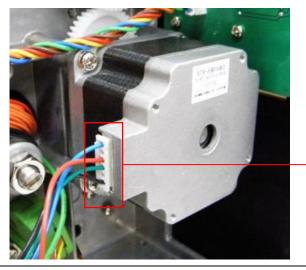
3. Take off the power supply cover (black mylar). Disconnect two connectors and remove four screws on the power supply unit.



- 3. Replace the power supply unit.
- 4. Reassemble the parts in the reverse procedures.

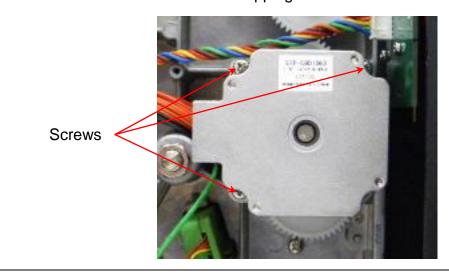
3.6 Replacing the Stepping Motor

- 1. Refer to section 3.1 to remove the electronics cover.
- 2. Disconnect the stepping motor connector.



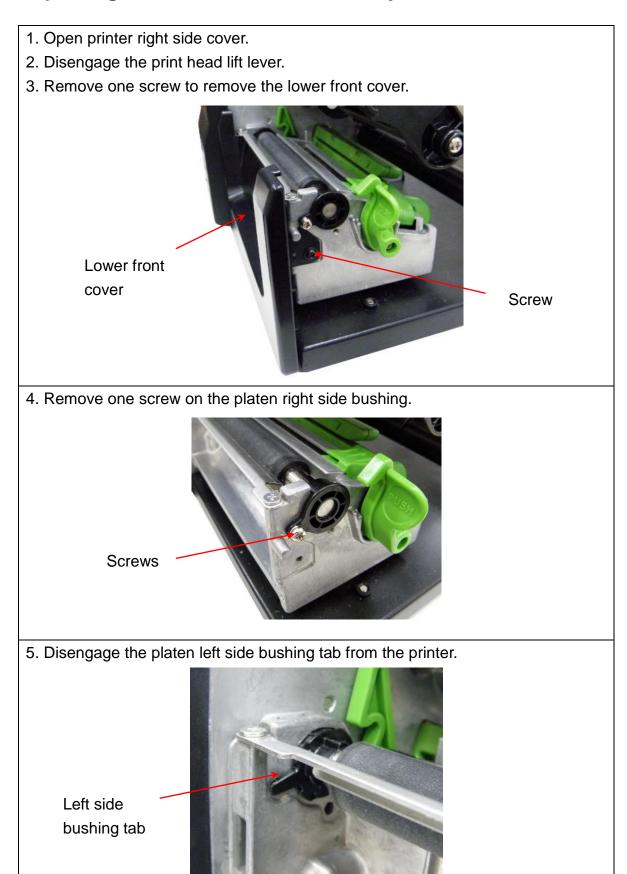
Stepping motor connector

3. Remove three screws on the stepping motor.



- 4. Replace the stepping motor.
- 5. Reassemble the parts in the reverse procedures.

3.7 Replacing the Platen Roller Assembly

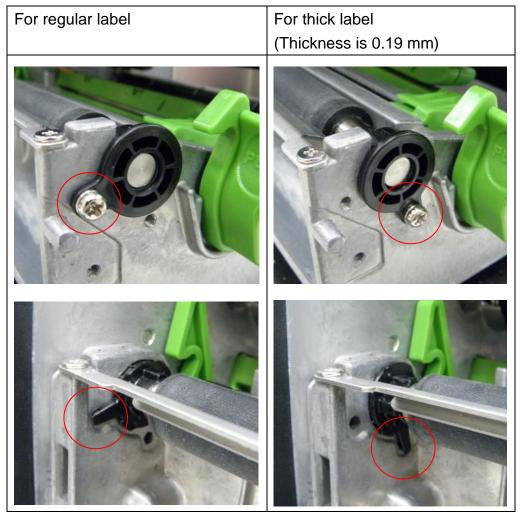


6. Take out the platen bushing, platen roller assembly and replace a new platen roller assembly.



7. Reassemble the parts in the reverse procedures.

Note:



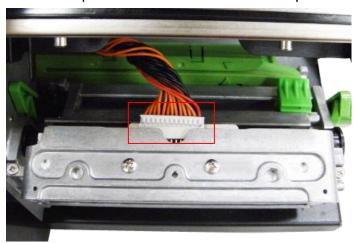
3.8 Replacing the Print head ASS'Y

- 1. Open the printer right side cover.
- 2. Remove one screw from the mechanism.



Screws

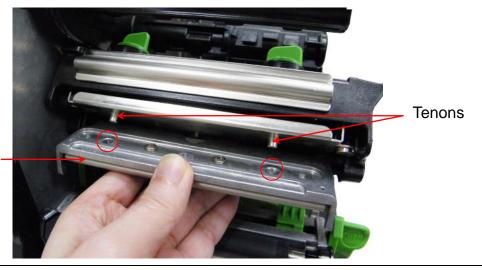
- 3. Disengage the print head release lever.
- 4. Carefully disconnect the print head connector from the print head module.



5. Replace the print head module.

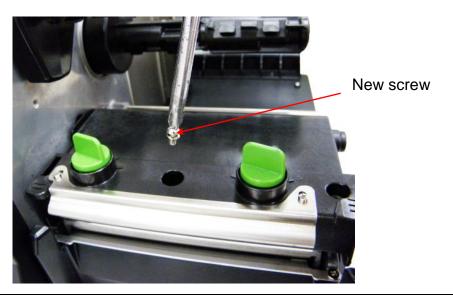


6. Connect the print head cable and carefully slide assembly into the print mechanism. The holes of print head assembly must align and then insert the tenons of print mechanism.



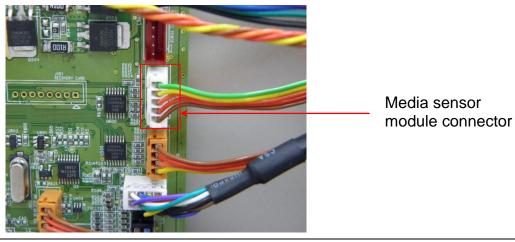
7. Close the print head release lever. Use the new screw to install the new print head module.

Print head module

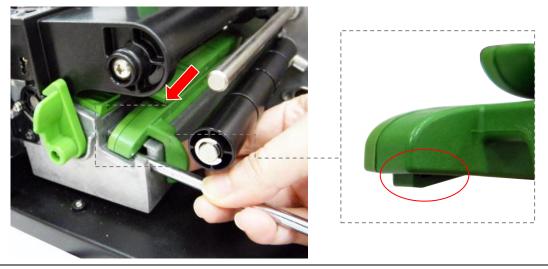


3.9 Replacing the Media Sensor Module

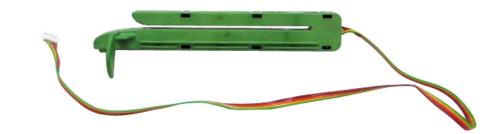
- 1. Refer to section 3.1 to remove the electronics cover.
- 2. Disconnect the media sensor module connector from the main board.



3. At the bottom of the media sensor module, there is a green plastic tab to latch the sensor module to the mechanism. Use a tool to push up the tab then pull out the media sensor module.

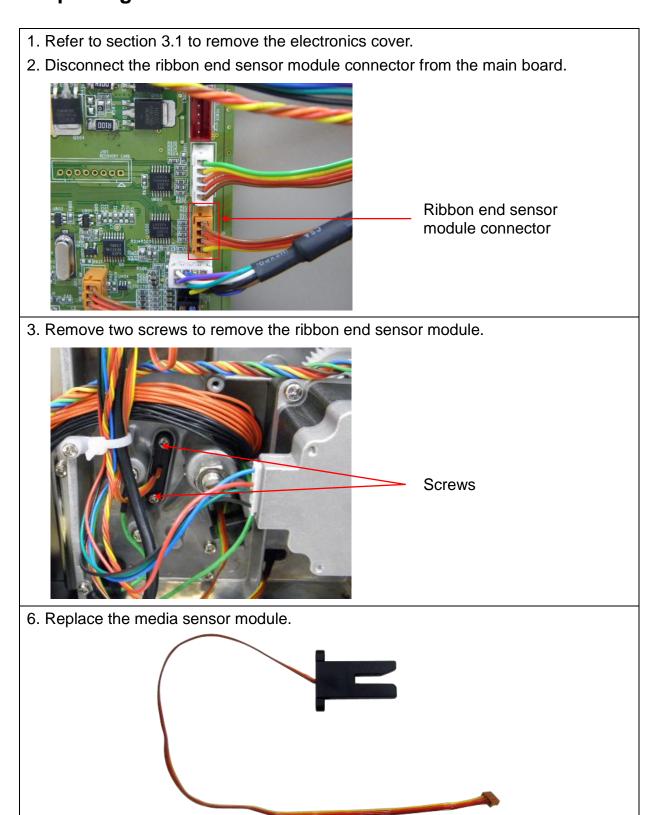


6. Replace the media sensor module.



7. Reassemble the parts in the reverse procedures.

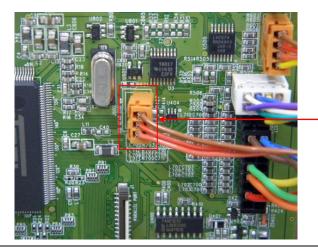
3.10 Replacing the Ribbon End Sensor Module



7. Reassemble the parts in the reverse procedures.

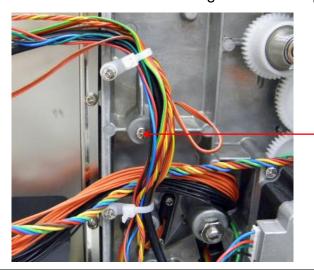
3.11 Replacing the Ribbon Encoder Sensor Module

- 1. Refer to section 3.1 to remove the electronics cover.
- 2. Disconnect the ribbon encoder sensor module connector from the main board.



Ribbon encoder sensor module connector

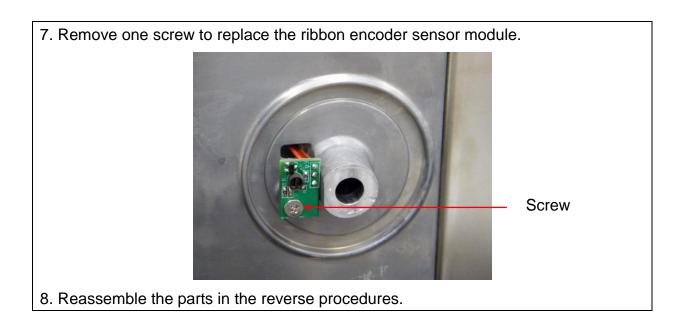
3. Remove one screw that fixing the ribbon supply spindle.



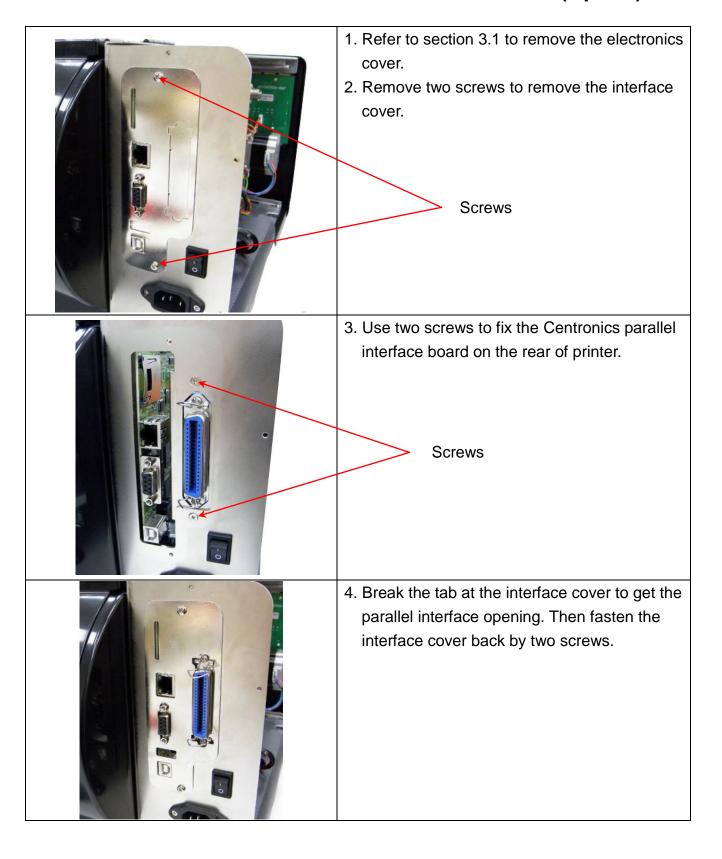
Screw

6. Open the printer right side cover to remove the ribbon supply spindle.



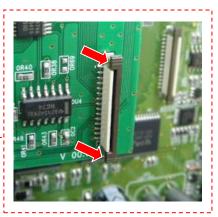


3.12 Centronics Parallel Interface Board Installation (Option)

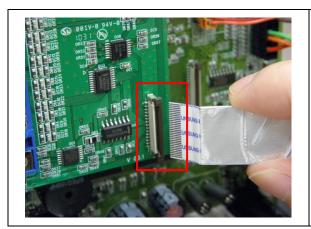


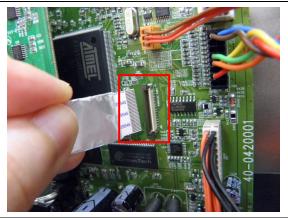
5. Loosen the connector before install the flat cable.





6. Connect the flat cable between the Centronics parallel interface board and the main board.





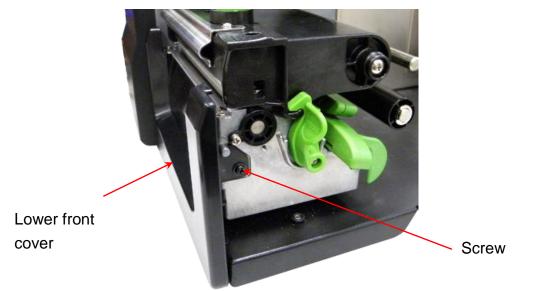
7. Connect the 5-pin cable between the Centronics parallel interface board and main board.



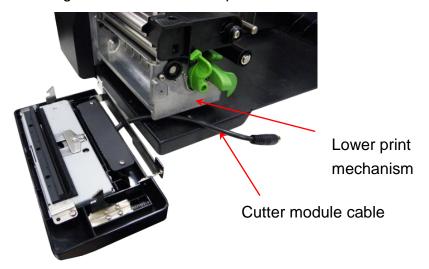
8. Reassemble the parts in the reverse procedures.

3.13 Cutter Module Installation (Option)

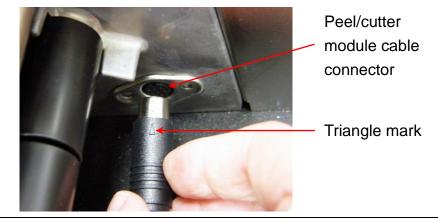
- 1. Open printer right side cover.
- 2. Remove one screw to remove the lower front cover.



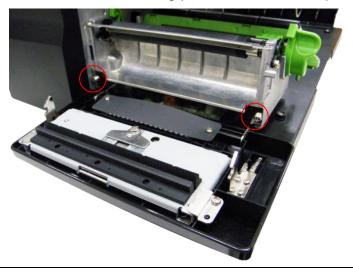
3. Thread the cutter cable through the bottom of lower print mechanism.



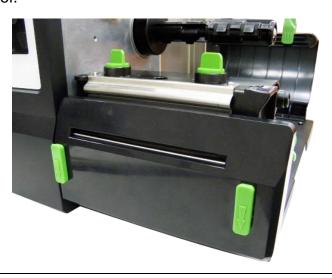
4. Plug the cutter mini DIN cable connector into the cutter/peel-off module cable connector. The triangle mark on the connector must be at the upper side.



5. Use enclosed two screws to fix the cutter fixing plate onto the lower print mechanism.

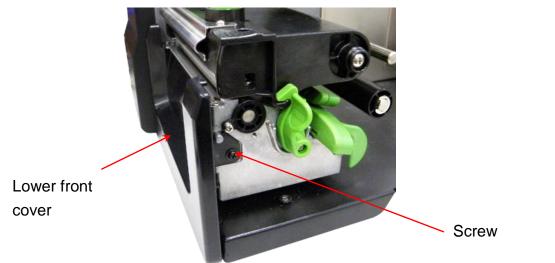


6. Close the cutter cover.

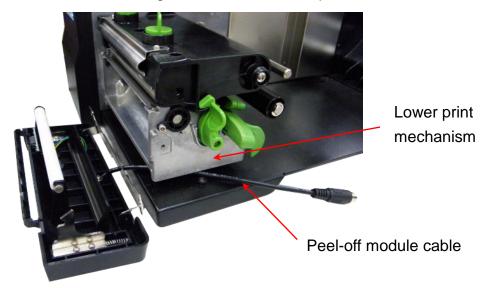


3.14 Peel-off Module Installation (Option)

- 1. Open printer right side cover.
- 2. Remove one screw to remove the lower front cover.



3. Thread the peel-off module cable through the bottom of lower print mechanism.



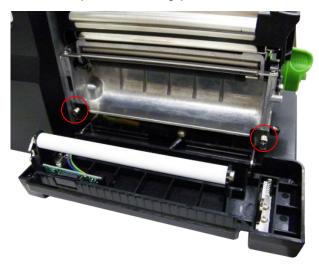
4. Plug the peel-off module mini DIN cable connector into the cutter/peel-off connector. The arrow mark on the connector must be at the upper side.



Peel/cutter module cable connector

Arrow mark

5. Use enclosed two screws to fix the peel-off fixing plate onto the lower print mechanism.



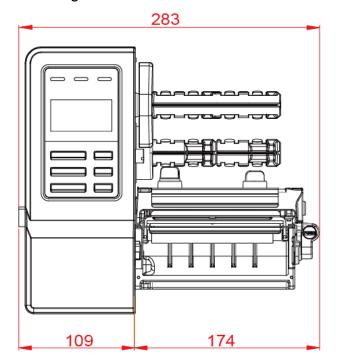
6. Close the peel-off cover.

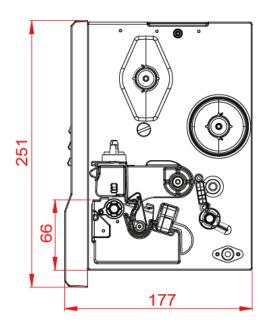


3.15 Print Engine Module Specification (Option)

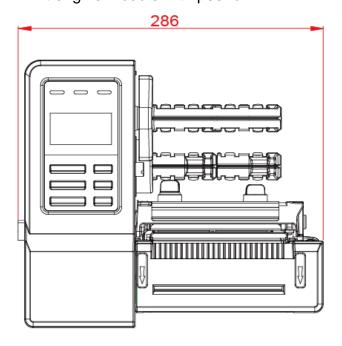
Print engine module measurements

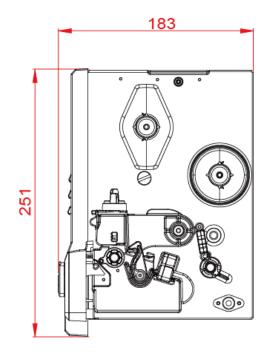
-Print engine module



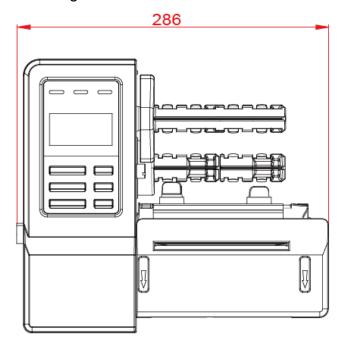


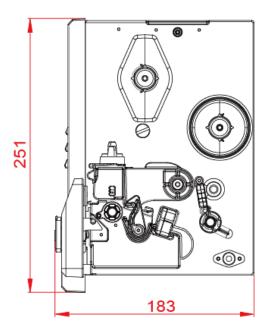
-Print engine module with peel-off



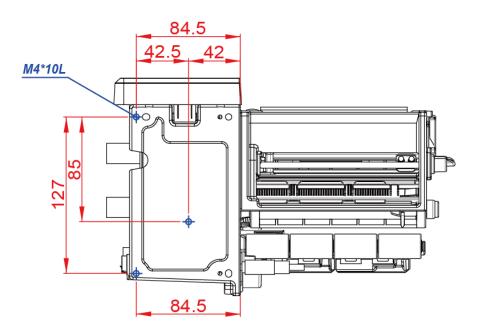


-Print engine module with cutter





Bottom view



Note:

- 1. All measurements are in mm.
- 2. There are 3 fastenings in this print engine module, the fastening location be marked in blue on bottom view drawing, fits with screw M4*10L.

4. TROUBLESHOOTING

4.1 Common Problems

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.

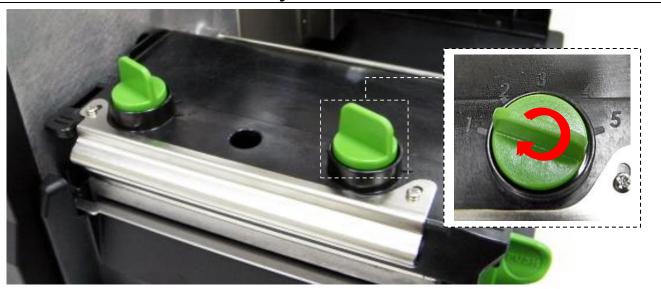
Problem	Possible Cause	Recovery Procedure
Power indicator does not illuminate	* The power cord is not properly connected.	* Plug the power cord in printer and outlet. * Switch the printer on.
 The printer status from DiagTool shows "Head Open". The LCD shows "Carriage Open". 	* The printer carriage is open.	* Please close the print carriage.
 The printer status from DiagTool shows "Ribbon End Err." Or "Ribbon Encoder Err." The LCD shows "No Ribbon". 	* Running out of ribbon. * The ribbon is installed incorrectly.	* Supply a new ribbon roll. * Please refer to the steps in user's manual to reinstall the ribbon.
 The printer status from DiagTool shows "Out of Paper". The LCD shows "No Paper". 	* Running out of label. * The label is installed incorrectly. * Gap/black-mark sensor is not calibrated.	* 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.
 The printer status from DiagTool shows "Paper Jam". The LCD shows "Paper Jam". 	* Gap/black-mark sensor is not set properly. * Make sure label size is set properly. * Labels may be stuck inside the printer mechanism.	* Calibrate the gap/black-mark sensor. * Set label size correctly.
- The LCD shows " Take Label ".	* Peel-off function is enabled.	* If the peel-off module is installed, please remove the label. * If there is no peel-off module in front of the printer, please switch off the printer and install it. * Check if the connector is plugging correctly.
UP: Fwd. DOWN: Rev. MENU: Exit	* Cutter jam. * There is no cutter installed on the printer. * Cutter PCB is damaged.	* If the cutter module is installed, please press UP or DOWN key to rotate the cutter up or down to make the knife back to the right position. * Remove the label. * Make sure the thickness of label is less than 0.254 mm (10mil) * Replace a cutter PCB.

Not Printing	* Cable is not well connected to serial or USB interface or parallel port. * The serial port cable pin configuration is not pin to pin connected.	* Re-connect cable to interface. * If using serial cable,	
Memory full (FLASH / DRAM)	* The space of FLASH/DRAM is full.	* Delete unused files in the FLASH/DRAM. * The max. numbers of file of DRAM is 256 files. * The max. user addressable memory space of DRAM is 256 KB. * The max. numbers of file of FLASH is 256 files. * The max. user addressable memory space of FLASH is 2560KB.	
SD card is unable to use	* SD card is damaged. * SD card doesn't insert correctly. * Use the non-approved SD card manufacturer.	* Use the supported capacity SD card. * Insert the SD card again. * The supported SD card spec and the approved SD card manufacturers, please refer to section 1.1	

		* D. I I (I	
Poor Print Quality	* Ribbon and media is loaded incorrectly * Dust or adhesive accumulation on the print head. * Print density is not set properly. * Print head element is damaged. * Ribbon and media are incompatible. * The print head pressure is not set properly.	knob has been adjust to index "5" and the poor print quality is still at the left side of the printout, please adjust the pressure adjustment knob to index "1"	
LCD panel is dark and keys are not working	* The cable between main PCB and LCD panel is loose.	* Check if the cable between main PCB and LCD is secured or not.	
LCD panel is dark but the LEDs are light	* The printer initialization is unsuccessful.	* Turn OFF and ON the printer again. * Initialize the printer.	
LCD panel is dark and LEDs are lit on, but the label is feeding forward	* The LCD panel harness connector is loose.	* The LCD panel harness connector is plugged upside down.	
Peel sensor is not working	* The connector is loose.	* Plug the connect cable correctly.	
Ribbon encoder sensor doesn't work	connector is loose.	* Fasten the connector.	
Ribbon end sensor doesn't work	* The connector is loose. * The ribbon sensor hole is covered with dust.	* Check the connector. I* Clear the dust in the sensor hole by the blower.	
Cutter is not working	* The connector is loose.	* Plug in the connect cable correctly.	
* The media guide does not touch the edge of the media. * The media guide does not touch the label guide to the edge of the media. * If the label is moving to the left the label is moving to the label is moving to the left the label is moving to		* If the label is moving to the right side, please move the label guide to left. * If the label is moving to the left side, please move the label guide to right.	

Skip labels when printing	* Label size is not specified properly. * Sensor sensitivity is not set properly. * The media sensor is covered with dust.	* Check if label size is setup correctly. * Calibrate the sensor by Auto Gap or Manual Gap options. * Clear the GAP/Black-mark sensor by blower.	
The printing position of small label is incorrect	* Media sensor sensitivity is not set properly. * Label size is incorrect. * The parameter Shift Y in the LCD menu is incorrect. * The vertical offset setting in the driver is incorrect.	* Calibrate the sensor sensitivity again. * Set the correct label size and gap size. * Press [MENU] → [SELECT] x3→[DOWN]x6 → [SELECT] to fine tune the parameter of Shift Y. * If using the software BarTender, please set the vertical offset in the driver. * 利申替於定 * Page Setup Graphics Stock Options About Media Settings Method: Use Current Printer Setting Vertical Diffset: 0.00 mm Dest-Print Action: Tear Off Vertical Offset: 0.00 mm Dest-Print Action: Tear Off Vertical Offset: 0.00 mm Vertical Offset:	
The left side printout position is incorrect	* Wrong label size setup. * The parameter Shift X in LCD menu is incorrect.	* Set the correct label size. * Press [MENU] → [SELECT] x 3 → [DOWN] x 5 → [SELECT] to fine tune the parameter of Shift X.	
Missing printing on the left or right side of label	* Wrong label size setup.	* Set the correct label size.	
RTC time is incorrect when reboot the printer	* The battery has run down.	* Check if there is a battery on the main board.	
Power and Error LEDs are blinking fast	* Power switch OFF and ON too fast.	* Turn off the printer and wait all LEDs are dark, and turn on the printer again.	
Wrinkle Problem	* Print head pressure is incorrect. * Ribbon installation is incorrect. * Media installation is incorrect. * Print density is incorrect. * Media feeding is incorrect.	 * Make sure the label guide touch the edge of the media guide. * Make sure label, paper core and ribbon are set at the center of the spindle. 	
Gray line on the blank label	* The print head is dirty. * The platen roller is dirty.	* Clean the print head. * Clean the platen roller.	
Irregular printing	* The printer is in Hex Dump mode. * The RS-232 setting is incorrect.	* Turn off and on the printer to skip the dump mode. * Re-set the Rs-232 setting.	

4.2 Print Head Pressure Adjustment Knob



There are two conditions that will need to adjust the print head pressure.

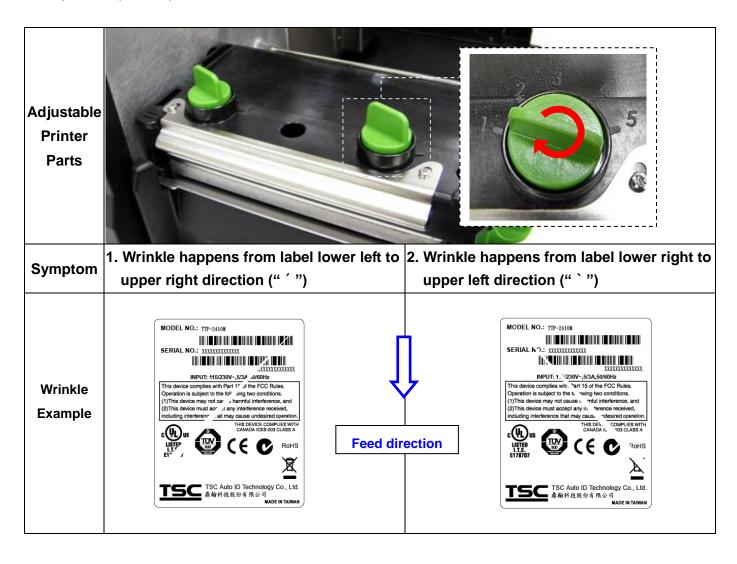
- Print with thick media
 If the media thickness is larger than 0.19 mm, the larger pressure is required to get good quality printout.
- 2. Print with narrow media
 If the media width is less than 4 inch wide the print head pressure will need to be
 adjusted to avoid ribbon wrinkle

There are 5 levels of pressure for adjustment. Level 1 is the minimum pressure and level 5 is the maximum pressure.

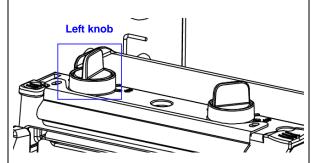
For example, if the label width is 4 inch, adjust both print head pressure adjustment knobs to the same level. If the label is less than 2 inch wide, increase the left side print head pressure by rotating the adjustment knob clockwise and decrease the right side pressure by rotating the adjustment knob counter-clockwise to level 1.

4.3 Mechanism Fine Adjustment to Avoid Ribbon Wrinkles

This printer has been fully tested before delivery. There should be no ribbon wrinkle presented on the media for general-purpose printing application. Ribbon wrinkle is related to the media thickness, print head pressure balance, ribbon film characteristics, print darkness setting...etc. In case the ribbon wrinkle happens, please follow the instructions below to adjust the printer parts.



Adjust the print head pressure adjustment knob

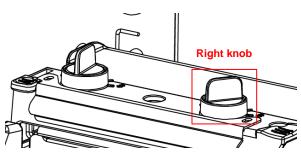


The print head pressure adjustment knob has 5 levels of settings. Clockwise direction adjustment is to increase the print head pressure. Counter Clockwise adjustment can decrease the print head pressure.

If the wrinkle on the label starts from the lower left side to upper right side, please do following adjustment.

- Decrease the right side print head pressure adjustment knob setting 1 level per each adjustment then print the label again to check if wrinkle is gone.
- If the right side print head adjustment knob setting has been set to index 1 (the lowest pressure index), please increase the left side print head pressure.
- If the wrinkle can't be avoided, please contact the Customer Service Department of your purchased reseller or distributor for service.

Adjust the print head pressure adjustment knob

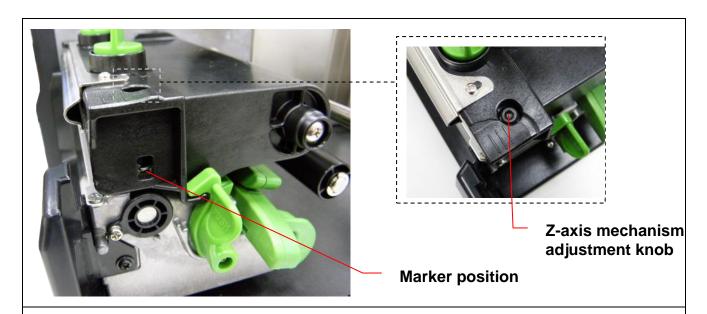


The print head pressure adjustment knob has 5 levels of settings. Clockwise direction adjustment is to increase the print head pressure. Counter Clockwise adjustment can decrease the print head pressure.

If the wrinkle on the label starts from the lower right side to upper left side, please do following adjustment.

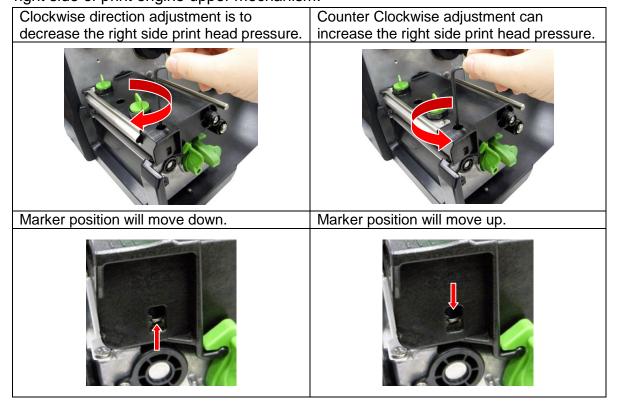
- Decrease the left side print head pressure adjustment knob setting 1 level per each adjustment then print the label again to check if wrinkle is gone.
- If the left side print head adjustment knob level has been set to index 1 (the lowest index), please increase the right side print head pressure.
- If the wrinkle can't be avoided, please contact the Customer Service Department of your purchased reseller or distributor for service.

4.4 Z-axis Mechanism Adjustment Knob



For narrow media, If change the print head pressure adjustment knob setting can't get the printout without ribbon wrinkle, the Z-axis mechanism adjustment knob should be adjusted to get the satisfied printout. This Z-axis mechanism adjustment knob is used to find tune the right side pressure of print head. Before find tune the print head right side pressure, please set the pressure adjustment knob to index "1" then use the Z-axis adjustment knob to fine tune the right side print head pressure. Please refer to the adjustment steps as below.

1. Use wrench to rotate the Z-axis mechanism adjustment knob (hexagonal head) at right side of print engine upper mechanism.



2. Please be noted that print head right pressure find turn should be done by try-and-error. Rotate the Z-axis mechanism adjustment knob for a few circles by wrench and print again to check if the ribbon wrinkle remains. If the wrinkle still remains, please turn the Z-axis mechanism adjustment knob clockwise about 1/4 circle each time for adjustment.

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
Print Head	 Always turn off the printer before cleaning the print head. Allow the print head to cool for a minimum of one minute. Use a cotton swab (Head cleaner pen) and 100% ethanol to clean the print head surface. Print H Element	Print Head
Platen Roller	 Turn the power off. Rotate the platen roller and wipe it thoroughly with 100% ethanol and a cotton swab, or lint-free cloth. 	Clean the platen roller when changing a new label roll
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.

UPDATE HISTORY

Date	Content	Editor
2012/6/14	Add section 3.15 for print engine module info	Camille
2012/9/28	Modify section 3.13 and 3.14	Camille



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