

Fastmark M7 Series

Thermal Transfer Barcode Printer

User's Guide

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1. Introduction 1.1 Product Introduction

Thank you very much for purchasing an AMT Datasouth bar code printer. This printer is designed with die-casting aluminum chassis and print mechanism, metal cover with large clear media view window, which ensuring to work for the extreme and heavy duty industrial environment and applications.

With back-lit graphic LCD display, printer status can be managed easier and operated more user friendly. The moveable sensor design can accept wide range of label media. All of the most frequently used bar code formats are included. Fonts and bar codes can be printed in any one of the four directions. This printer is built-in the high quality, high performance MONOTYPE IMAGING® True Type font engine and one CG Triumvirate Bold Condensed smooth font. With flexible firmware design, user can also download the True Type Font from PC into printer memory for printing labels. Besides the scalable font, it also provides a choice of five different sizes of alphanumeric bitmap font, OCR-A and OCR-B fonts. By integrating rich features, it is the most cost-effective and high performance printer in its class!

1.2 Compliances

CE Class A: EN55022:1998+A1:2000+A2:2003: EN55024:1998+A1:2001+A2:2003: EN 61000-4 SERIES REQULATIONS ETSI EN 301 489-17:V1.2.1(2002-08) FCC: CFR 47, Part 15/CISPR 22 3RD EDITION:1997, Class A

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions.

(1)This device may not cause harmful interference, and

(2) This device must accept any interference received,

including interference that may cause undesired operation.

ANSI C63.4:2003 CANADIAN ICES-003 C-Tick: AS/NZS CISPR22 (Class A) UL, CUL UL 60950 3rd TÜV-GS: EN60950: 2000

Wichtige Sicherheits-Hinweise

1.Bitte lesen Sie Diese Hinweis sorgfältig durch

2. Heben Sie diese Anleitung für den späteren Gebrauch auf.

3.Vor jedem Reinigen ist das Gerät vom Stromentz zu trennen. Verwenden Sie Keine Flüssig-oder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.

4.Die Netzanschlußsteckdose soll nahe dem Gerät angebraucht und leicht zugänglich sein.

5.Das Gerät ist vor Feuchtigkeit zu schützen.

6.Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen.

7.Beáchten Sie beim Anschluß an das stromnetz die Anschlußwerte.

8. Dieses das Gerät kann bis zu einer Außentemperatur von maximal 40 betieben werden.

(CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer instructions.)

"ORSICHT"

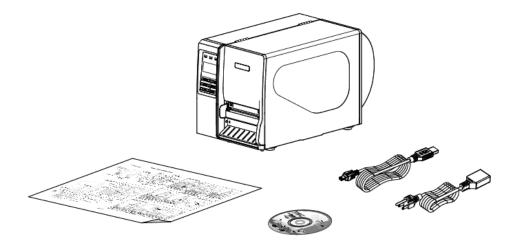
Explosionsgetahr bei unsachgemen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem nlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

2. Operations Overview 2.1 Unpacking and Inspection

This printer has been specially packaged to withstand damage during shipping. Please carefully inspect the packaging and printer upon receiving the bar code printer. Please retain the packaging materials in case you need to reship the printer.

Unpacking the printer, the following items are included in the carton.

- One printer unit
- One Windows labeling software/Windows driver CD disk
- One quick installation guide
- One power cord
- One USB interface cable



If any parts are missing, please contact the Customer Service Department of your purchased reseller or distributor.

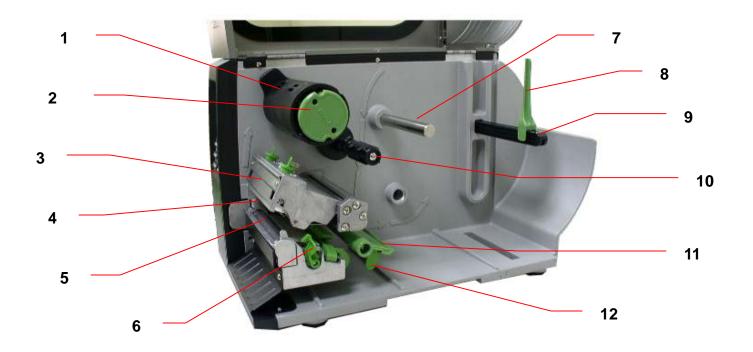
2.2 Printer Overview

2.2.1 Front View

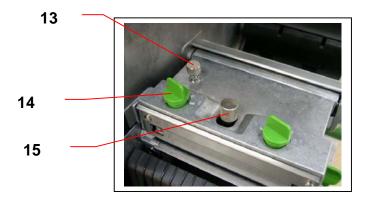


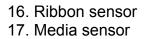
- 1. LED indicators
- 2. LCD display
 3. Front panel buttons
 4. Paper exit chute
- 5. Lower front cover
- 6. Printer right side cover

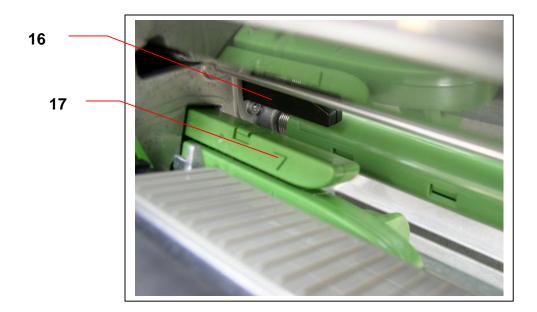
2.2.2 Interior view



- 1. Ribbon rewind spindle
- 2. Ribbon release button
- 3. Ribbon guide plate
- 4. Print head
- 5. Platen roller
- 6. Print head release lever
- 7. Media guide bar
- 8. Label roll guard
- 9. Label supply spindle
- 10. Ribbon supply spindle
- 11. Damper
- 12. Label guide
- 13. Z axis mechanism adjustment knob
- 14. Print head pressure adjustment knob
- 15. Print head secure screw









1. Fan-fold paper entrance chute

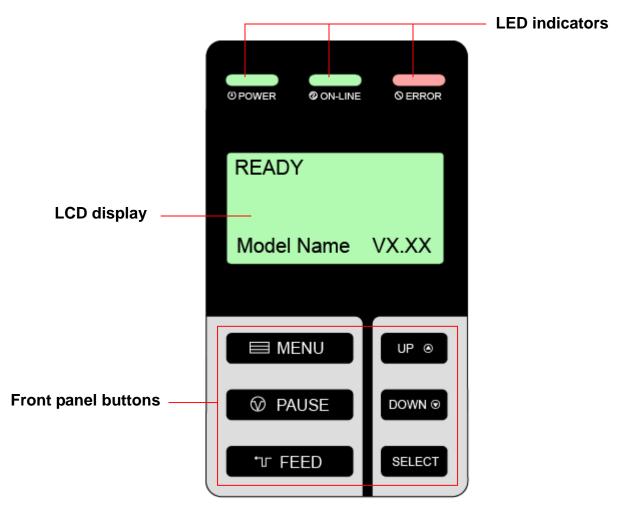
2. Centronics interface		
3. USB interface	Note:	
4. RS-232C interface	1. SD card slot, Ethernet interface and PS/2 interface are standard	
5. Power jack socket	interfaces for M7 PLUS models, but optional for M7 non-PLUS	
6. GPIO interface	models.	
*7. SD card slot	2. GPIO interface card includes SD card slot, Ethernet and PS/2	
8. Ethernet interface	interfaces. So GPIO interface is an factory option for M7 PLUS,	
9. PS/2 interface	but a dealer option for M7 non-PLUS models.	
10. Power switch		

* Recommended SD card specification.

SD V 1.0, V 1.1	SD V 2.0 (SDHC)	
✓ 128MB	✓ 4GB class 6	
✓ 256MB		
✓ 512MB		
✓ 1GB		
-Supported DOS FAT file system.		
-Folders stored on the SD card should be in the 8.3 filename format.		
-Approved SD card manufacturer: SanDisk, Transcend.		
rippionod ob card manalaotaron.	canbiol, hancoona.	

2.3 Operator Controls

2.3.1 Front Panel Display



2.3.2 LED Indicators

LED	Status	Indication
() POWER	Off	The printer power is turned off
	On	The printer power is turned on
@ ON-LINE	On	Printer is ready
		Pause
	Blinking	Downloading data into printer.
SERROR Off		Printer is ready
	On	"CARRIAGE OPEN" or "CUTTER ERROR"
	Blinking	"NO PAPER", "PAPER JAM" or "NO RIBBON"

2.3.3 Front Panel Keys

Keys	Function
🔲 MENU	1. Enter the menu
	2. Exit from a menu or cancel a setting and return to the previous
	menu
V PAUSE	Pause/Resume the printing process
ா FEED	Advance one label
UP 👄	Scroll up the menu list
DOWN 🕤	Scroll down the menu list
SELECT	Enter/Select cursor located option

2.4 Setting Up the Printer

- 1. Place the printer on a flat, secure surface.
- 2. Make sure the power switch is off.
- 3. Connect the printer to the computer with the provided USB cable.
- 4. Plug the power cord into the AC power cord socket at the rear of the printer, and then plug the power cord into a properly grounded power outlet.

2.5 Installation of Ribbon

2.5.1 Loading Ribbon

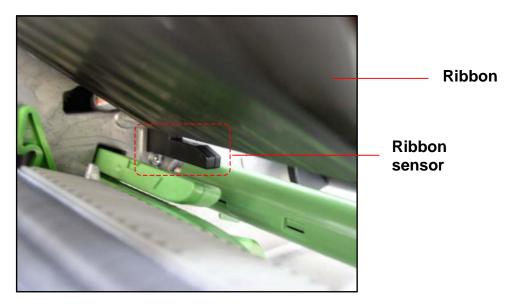
- 1. Lift open printer right side cover.
- 2. Push the print head release lever to open the print head mechanism.



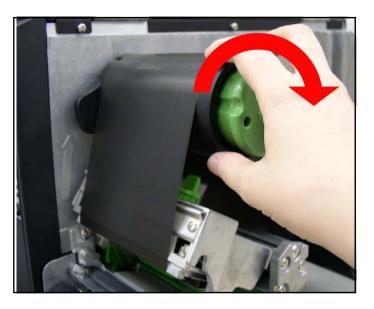
3. Install the ribbon onto the ribbon supply spindle.



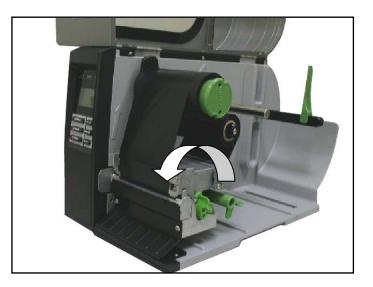
4. Thread the ribbon through the ribbon sensor slot and then through the open space in between print head and platen.



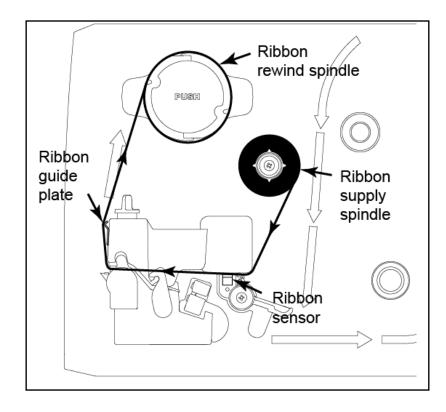
- 5. Wrap the ribbon onto the ribbon rewind spindle. Keeping the ribbon flat and without wrinkles.
- 6. Wind the ribbon clockwise about 3~5 circles onto the ribbon rewind spindle until it is smooth and properly stretched.



7. Close the print head mechanism making sure the latches are engaged properly.



• Loading path for ribbon



2.5.2 Remove Used Ribbon

1. Break the ribbon between ribbon guide plate and the ribbon rewind spindle.



2. Push the ribbon release button to release the ribbon on the ribbon rewind spindle.



3. Then, slide off the ribbon from ribbon rewind spindle.

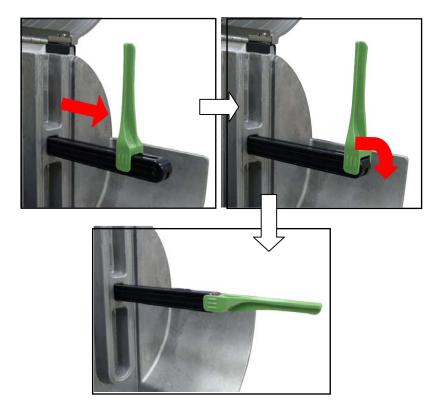


2.6 Installation of Media

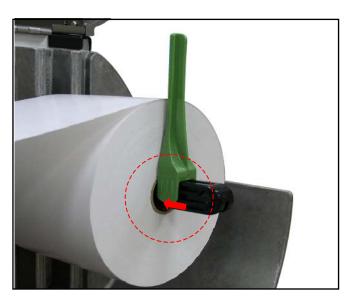
- 2.6.1 Loading Roll Labels
 - 1. Lift open printer right side cover.
 - 2. Push the print head release lever to open the print head mechanism.



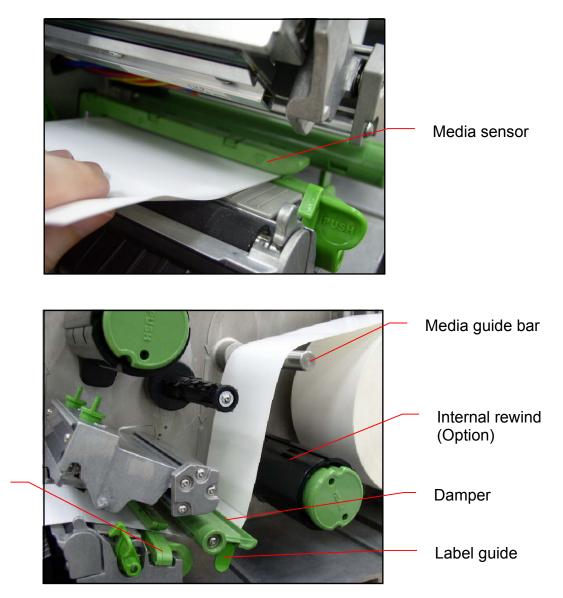
2. Move the label roll guard horizontally to the end of label spindle then flip down the label roll guard.



3. Place the roll of media on the label supply spindle. Flip up the label roll guard. Move the label roll guard horizontally to gently fit the width of label roll.

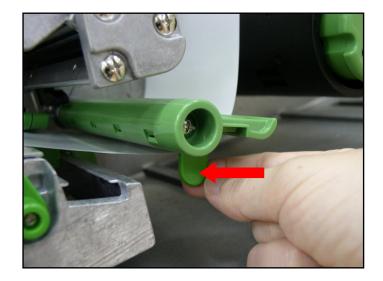


4. Pull label roll leading edge forward through the media guide bar, damper, media sensor and place the label leading edge onto the platen roller.



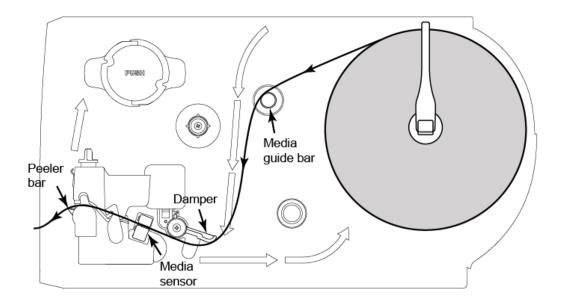
Media sensor

6. Adjust the label guide to fit the width of the label.



- 7. Close the print head mechanism making sure the latches are engaged properly.
- 8. Using the front display panel, set the media sensor type and calibrate the selected sensor. (Please refer to section 3.1.2)

Note: Please calibrate the gap/black mark sensor when changing media.



• Loading path for roll labels

2.6.2 Loading Fan-fold Labels

Fan-fold media feeds through either the bottom or rear external label entrance chute.

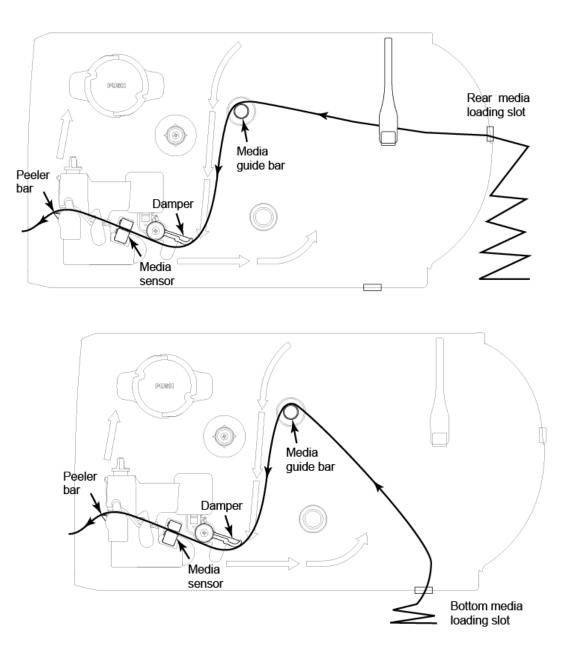
- 1. Lift open printer right side cover.
- 2. Push the print head release lever to open the print head mechanism.



- 3. Insert the fan-fold media through the bottom or rear external label entrance chute.
- 4. Pull fan-fold label leading edge forward through the media guide bar, damper media sensor and place the label leading edge onto the platen roller.
- 5. Adjust the label guide by sliding to fit the paper width.
- 6. Close the print head mechanism making sure the latches are engaged properly.
- 7. Set the media sensor type and calibrate the selected sensor. (Please refer to section 3.1.2)

Note: Please calibrate the gap/black mark sensor when changing media.

• Loading path for fan-fold labels



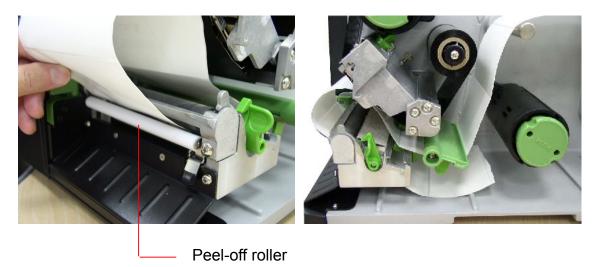
2.6.3 Loading Media in Peel-off Mode (Option)

- 1. Lift open printer right side cover.
- 2. Push the print head release lever to open the print head mechanism.
- 3. Move the label roll guard horizontally to the end of label spindle then flip down the label roll guard.
- 4. Place the roll of media on the label supply spindle. Flip up the label roll guard. Move the label roll guard horizontally to fit the width of label roll.
- 5. Pull label roll leading edge forward through the media guide bar, damper media sensor and place the label leading edge onto the platen roller.
- 6. Adjust the label guide to fit the width of the label.
- 7. Using the front display panel, set the media sensor type and calibrate the selected sensor. (Please refer to section 3.1.2)
- 8. Then, pull approximately 650mm of label through the front of the printer.
- 9. Push down the peel-off roller release lever.



Peel-off roller release lever

10. Feed the label between peel-off roller and platen roller.



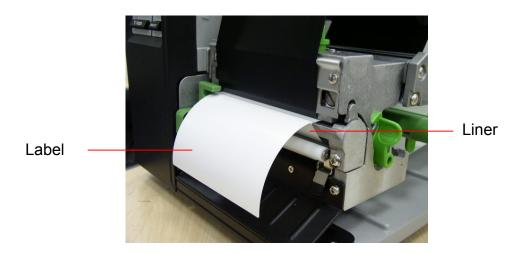
11. Wrap the label onto the internal rewind spindle and wind the spindle counterclockwise about 3~5 circles until the label is properly stretched.



12. Lift up the peel-off roller release lever and close the print head mechanism.13. Move the peel-off sensor toward the paper exit chute.



14. Peeling will automatically start. Press the FEED button to test.



Note:

Please calibrate the gap/black mark sensor when changing media.

2.6.4 Remove Liner from Internal Rewind (Option)

1. Break the liner between peel-off roller and the internal rewind spindle.



2. Push the liner release button to release the liner on the internal rewind spindle.



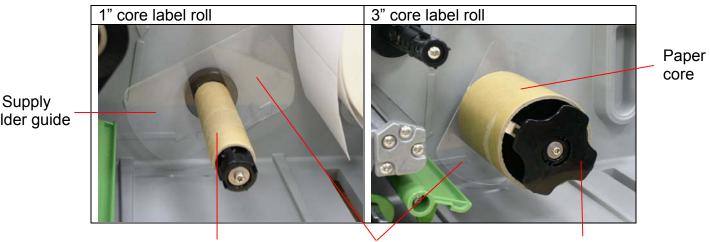


3. Then, slide off the liner from internal rewind spindle.

2.6.5 Loading Media in Rewind Liner with Label Mode (Option)

This mode can rewind the media including liner and label on the rewind spindle.

- 1. Lift open printer right side cover.
- 2. Insert the supply holder guide and paper core into the internal rewind for 1" core label roll.
 - Insert the supply holder guide, 3" label core adapter and paper core into the internal rewind for 3" core label roll.

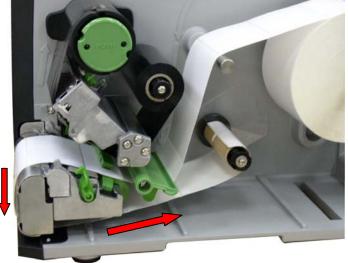


Paper core

Supply holder guide

3" label core adapter

- 3. Insert media into the printer label spindle. Pull label roll leading edge forward through the media guide bar, damper media sensor and place the label leading edge onto the platen roller. (Please refer to section 2.6.1)
- 4. Then, pull approximately 650mm of label through the label redirect front panel.
- 5. Wrap the label onto the internal rewind spindle and stick the label onto the paper core.



holder guide

5. Insert another supply holder guide into the internal rewind for 1" core label roll.



Supply holder guide

6. Using the LCD panel set the media sensor type and calibrate the selected sensor. (Please refer to section 3.1.2)



Note:

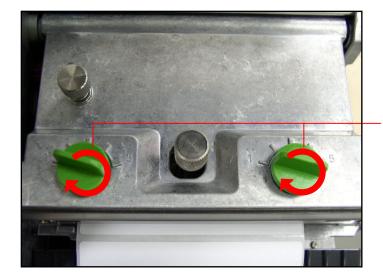
Please calibrate the gap/black mark sensor when changing media.

- 2.6.6 Remove Labels from Internal Rewind (Option)
- 1. Slide off the labels with supply holder guides from internal rewind spindle.



2.7 Adjustment Knob

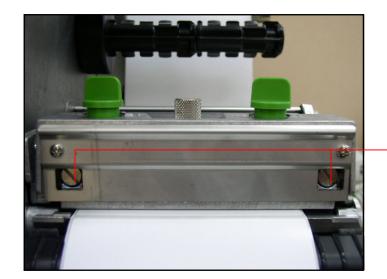
2.7.1 Print head Pressure Adjustment Knob



Print head pressure adjustment knobs

The print head pressure adjustment knob has 5 levels of adjustment. Because the printer's paper alignment is to the left side of mechanism, different media widths require different pressure to print correctly. Therefore it may require to adjust the pressure knob to get your best print quality. For example, if the label width is 4", adjust both print head pressure adjustment knobs to the same level. If the label is less than 2" 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.

2.7.2 Print Head Burn Line Adjustment Knob



Print head burn line adjustment knobs

The print head burn line adjustment knobs are used to fine tune the print quality for different thickness of media. Turning the knobs adjusts the print head's burn line forward or backward as it relates to the platen roller.

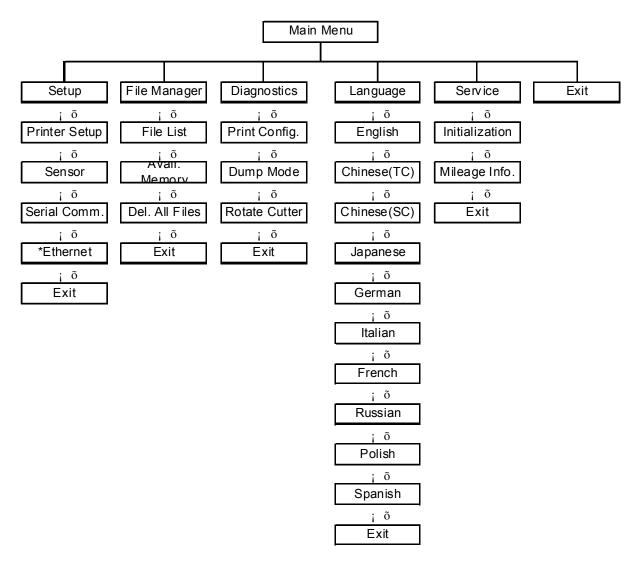
Caution: Incorrectly adjusting these knobs can lead to poor print quality and may cause damage to the printer. Proceed with caution.

The print head burn line default is set for general purpose printing media (plain paper and paper thickness less than 0.008 inch). The adjustment knobs default is screwed clockwise to the end of thread.

Poor print quality when using paper thicker than 0.008 inch may be due to the print head burn line not being at the optimized position. To improve the print quality, increase the head pressure or adjust the knobs counter-clockwise to move print head burn line toward the paper out direction then print again. Continue to adjust the burn line position and test print as necessary until the printout image is clear.

3. Menu Function

Main Menu Overview

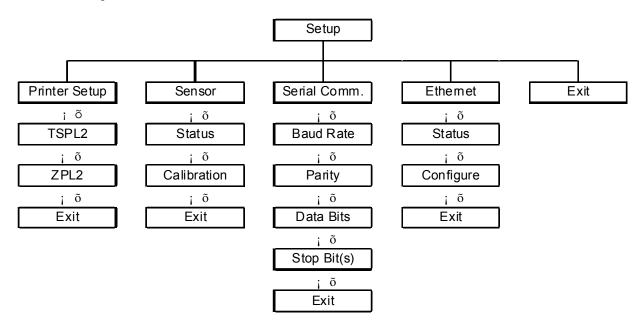


Notice:

* The Ethernet function is available for M7 *PLUS* series only and option for M7.

* Ethernet function is available on the LCD display when Ethernet card is installed.

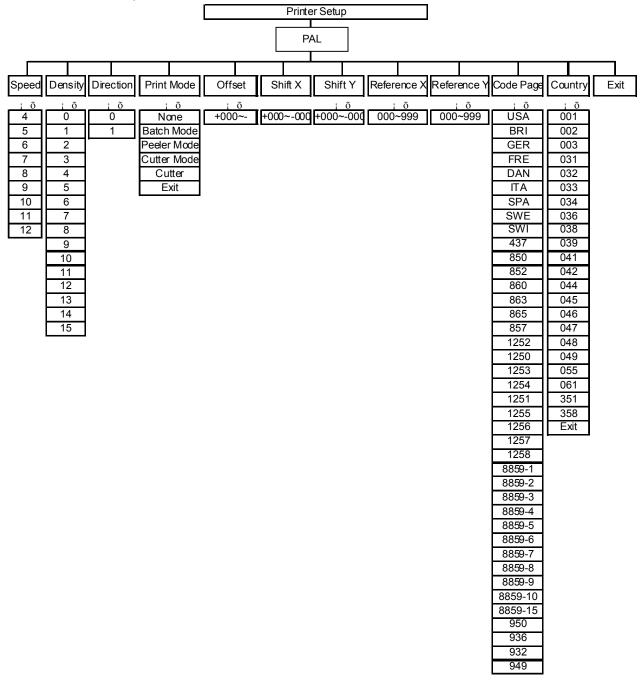
3.1 Setup Menu Overview



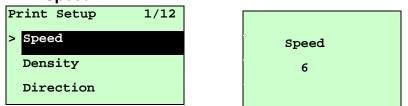
Notice:

- * The Ethernet function is available for M7 *PLUS* series only and option for M7.
- * Ethernet function is available on the LCD display when Ethernet card is installed.

3.1.1 Printer Setup



3.1.1.1 Speed:



Use this option to setup print speed. The available print speed is between 4~12 ips and each increament/decreament is 1 ips. The default print speed is 6 ips. Press **UP** \odot key to raise the print speed, and press **DOWN** \odot key to decrease print speed. Press **SELECT** key to set it into printer. Press **MENU** key to cancel the setting and return to the previous menu.

Note: If printing from enclosed software/driver, the software/driver will send out the SPEED command, which will overwrite the setting set from the front panel.

3.1.1.2 Density:

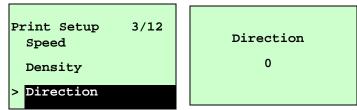
Print Setup Speed	2/12	Density
> Density		8
Direction		

Use this option to setup printing darkness. The available setting is from 0 to 15, and the step is 1. Printer default density is 8. You may need to adjust your density based on selected media and ribbon type.

Press UP O and DOWN O to increase/decrease the printing darkness. Press SELECT key to enable the setting. Press \blacksquare MENU key to cancel the setting and return to the previous menu.

Note: If printing from enclosed software/driver, the software/driver will send out the DENSITY command, which will overwrite the setting set from the front panel.

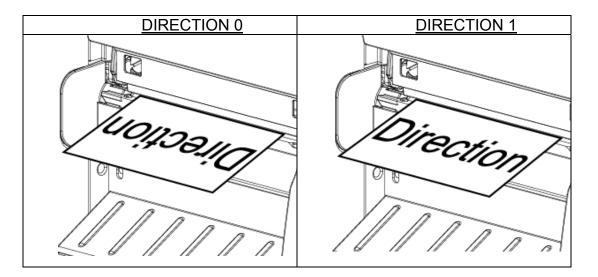
3.1.1.3 Direction:



The direction setting value is either 1 or 0. Use this option to setup the printout direction. Printer default printout direction is DIRECTION 0.

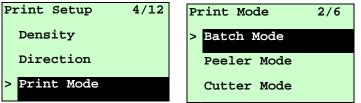
Press UP O key to set the direction as 1, and **DOWN** O to set it as 0, and **SELECT** key to enable the setting. Press \blacksquare **MENU** key to cancel the setting and return to the previous menu.

The following 2 figures are the printouts of DIRECTION 0 and 1 for your reference.



Note: If printing from enclosed software/driver, the software/driver will send out the command, which will overwrite the setting set from the front panel.

3.1.1.4 Print Mode: (None/Batch Mode/Peeler Mode/Cutter Mode/Cutter Batch)



This option is used to set the print mode. Printer default setting is Batch Mode. When enter this list, the print mode in the right side of " >" icon is the printer current setting. Press UP O and **DOWN** O to select the different print mode and press **SELECT** button to enable the setting. Press \blacksquare **MENU** key to cancel the setting and return to the previous menu.

Printer Mode	Description
None	Next label top of form is aligned to the print head I location. (Tear Off Mode)
Batch Mode	Once image is printed completely, label gap/black mark will be fed to the tear plate location for tear away.
Peeler Mode	Enable the label peel off mode.
Cutter Mode	Enable the label cutter mode.

Cutter Batch	Cut the label once at the end of the printing job.

Note: If printing from enclosed software/driver, the software/driver will send out the command, which will overwrite the setting set from the front panel.

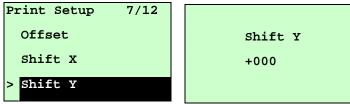
3.1.1.5 Offset:

Print Setup 5/12	
Direction	Offset
Print Mode	+000
> Offset	

This option is used to fine tune media stop location. Press the **DOWN** \odot button to move the cursor from left digit to right digit, and press the **UP** \odot button to set the value from "+" to "-" or "0" to "9". Press the **SELECT** button to set the value into printer. Press \blacksquare **MENU** key to cancel the setting and return to the previous menu. The default value is +000.

Note: If printing from enclosed software/driver, the software/driver will send out the OFFSET command, which will overwrite the setting set from the front panel.

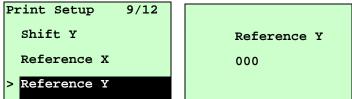
3.1.1.6 Shift X & Shift Y:



This option is used to fine tune print position. Press the **DOWN** \odot button to move the cursor from left digit to right digit, and press the **UP** \odot button to set the value from "+" to "-" or "0" to "9". Press the **SELECT** button to set the value into printer. Press \blacksquare **MENU** key to cancel the setting and return to the previous menu. The default value is +000.

Note: If printing from enclosed software/driver, the software/driver will send out the SHIFT command, which will overwrite the setting set from the front panel.

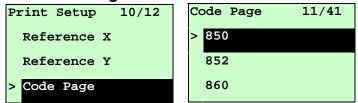
3.1.1.6 Reference X & Reference Y:



This option is used to set the origin of printer coordinate system horizontally and vertically. Press the **DOWN** \odot button to move the cursor from left digit to right digit, and press the **UP** \odot button to set the value from "0" to "9". Press the **SELECT** button to set the value into printer. Press \blacksquare **MENU** key to cancel the setting and return to the previous menu. The default value is 000.

Note: If printing from enclosed software/driver, the software/driver will send out the REFERENCE command, which will overwrite the setting set from the front panel.

3.1.1.7 Code Page:



Use this option to set the code page of international character set. For more information about code page, please to refer the programming manual. When enter the code page list, the code page in the right side of ">" icon is the printer current setting.

Press the UP \odot and DOWN \odot to select the code page, and press the SELECT button to enable the setting. Press \blacksquare MENU key to cancel the setting and return to the previous menu.

Note: If printing from enclosed software/driver, the software/driver will send out the command, which will overwrite the setting set from the front

panel.				
	7-bit	8-bit		
code page	International	code page	International	
name	Character Set	number	Character Set	
USA	USA	437	United States	
BRI	British	850	Multilingual	
GER	German	852	Slavic	
FRE	French	860	Portuguese	
DAN	Danish	863	Canadian/French	
ITA	Italian	865	Nordic	
SPA	Spanish			
SWE	Swedish			
SWI	Swiss			

Windows Code Page (SBCS)		Windows Code Page (DBCS)	
code page	International	code page	International
number	Character Set	number	Character Set
1252	Latin 1	950	Traditional Chinese Big5
1250	Central Europe	936	Simplified Chinese GBK
1253	Greek	932	Japanese Shift-JIS
1254	Turkish	949	Korean
1251	Cyrillic		
1255	Hebrew		
1256	Arabic		
1257	Baltic		
1258	Vietnam		

ISO Code Page		ISO Code Page		
code page	code page International		International	
name	Character Set	number	Character Set	
8859-1	Latin 1	8859-7	Greek	
8859-2	Latin 2	8859-9	Turkish	
8859-3	Latin 3	8859-10	Latin 6	
8859-4	Baltic	8859-15	Latin 9	
8859-5	Cyrillic			

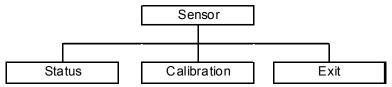
3.1.1.8 Country:

Print Setup 11/12	Country 1/23
Reference Y	> 001
Code Page	002
> Country	003

Use this option to set the country code for the LCD display. Press the UP O and **DOWN** O to select the country code, and press the **SELECT** button to set the value into printer. When enter this list, the country code in the right side of ">" icon is the printer current setting. Press \blacksquare **MENU** key to cancel the setting and return to the previous menu.

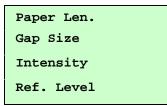
Code	Country	Code	Country	Code	Country	Code	Country
001	USA	034	Spanish (Spain)	044	United Kingdom	055	Brazil
002	Canadian- French	036	Hungarian	045	Danish	061	English (International)
003	Spanish	038	Yugoslavian	046	Swedish	351	Portuguese
031	Dutch	039	Italian	047	Norwegian	358	Finnish
032	Belgian	041	Switzerland	048	Polish		
033	French (France)	042	Slovak	049	German		

3.1.2 Sensor



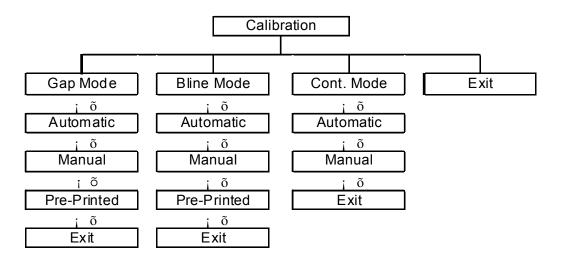
3.1.2.1 Status

This function is available to check the printer's sensor status. When enter the [Status] option, you will see following message.



3.1.2.2 Calibration

This option is used to set the media sensor type and calibrate the selected sensor. We recommend to calibrate the sensor before printing when changing the media.



A. Gap Mode

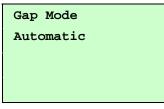
Gap Mode 1/4
> Automatic
Manual
Pre-Printed

Press the UP ④ and DOWN ⑨ buttons to scroll the cursor to the media type and press the SELECT button to enter the sensor calibration mode.

Note: If printing from enclosed software/driver, the software/driver will send out the GAP or BLINE command, which will overwrite the sensor type setting set from the front panel.

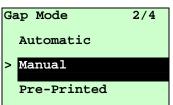
A-1 Automatic

When enter the [Automatic] option, you will see following message, and printer will feed 2 to 3 gap labels to calibrate the sensor sensitivity automatically. When calibration is completed, the LCD screen will return to the previous menu.



A-2 Manual

In case "Automatic" sensor calibration cannot apply to the media, please use "Manual" function to calibrate the gap sensor manually.



When enter [Manual] option, you will see following message. Please complete there steps

Paper Len. 00812 dot	1. Press the DOWN ⊙ button to move the cursor from left digit to right digit, and press the UP ⊙ button to set the value from "0" to "9" and the "dot/ mm/ inch". Press the SELECT button to set the paper length into the printer.
-------------------------	--

Gap Size 0024 dot Gap Mode Scan Backing Intensity	 2. Press the DOWN button to move the cursor from left digit to right digit, and press the UP button to set the value from "0" to "9" and the "dot/ mm/ inch". Press the SELECT button to set the gap size into the printer. 3. Open the print head mechanism, put the Label backing (liner) under the media sensor. Press the SELECT button to set the value into the printer.
Ref. Level xxx	Media sensor Label backing (liner)
Gap Mode Scan Paper Intensity Ref. Level xxx	4. Then, Put the label with liner under the Media sensor. Press the SELECT button to set the value into the printer.
	Media sensor Label with liner
Gap Mode Complete Intensity Ref. Level xxx	5. The gap sensor calibration is complete. Press the SELECT button the LCD screen will return to the previous menu.

A-3 Pre-Printed

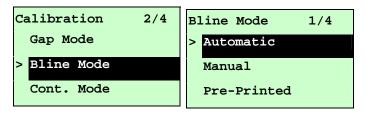
This function can set the paper length and gap size before auto-calibrate the sensor sensitivity. It can to get the sensor sensitivity accurately.

Gap Mode	3/4
Manual	
> Pre-Printed	
Exit	

When enter [Pre-Printed] option, you will see following message. Please complete there steps

Paper Len. 00812 dot	1. Press the DOWN
Gap Size 0024 dot	2. Press the DOWN [●] button to move the cursor from left digit to right digit, and press the UP [●] button to set the value from "0" to "9" and the "dot/ mm/ inch". Press the SELECT button to set the gap size into the printer.
Gap Mode Pre-Print(3. Then, printer will feed labels to calibrate the sensor sensitivity automatically. When calibration is completed, the LCD screen will return to the previous menu.

B. Bline Mode



Press the **UP** ⁽²⁾ and **DOWN** ⁽²⁾ buttons to scroll the cursor to the sensor type. Press the **SELECT** button to enter the black-mark sensor calibration mode.

B-1 Automatic

When enter the [Automatic] option, you will see following message and printer will feed the black mark label to calibrate the sensor sensitivity automatically. When calibration process is completed, the LCD screen will return to the previous menu.

Bline Mode	
Automatic	

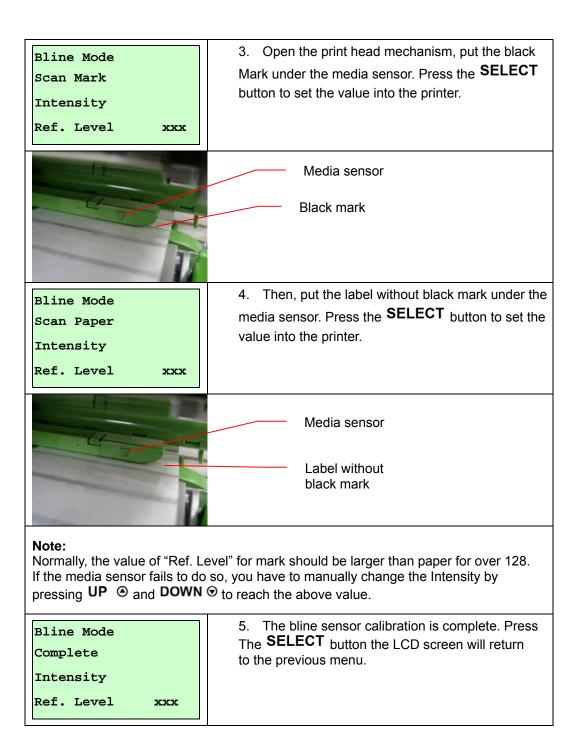
B-2 Manual

In case "Automatic" sensor calibration cannot apply to the media, please use "Manual" function to calibrate the bline sensor manually.

Bline Mode	2/4
Automatic	
> Manual	
Pre-Printed	

When enter [Manual] option, you will see following message. Please complete there steps

Paper Len. 00151 dot	 Press the DOWN S button to move the cursor From left digit to right digit, and press the UP S button to set the value from "0" to "9" and the "dot/ mm/ inch". Press the SELECT button to set the paper length into the printer.
Bline Size 0024 dot	 Press the DOWN [●] button to move the cursor From left digit to right digit, and press the UP [●] button to set the value from "0" to "9" and the "dot/ mm/ inch". Press the SELECT button to set the bline size into the printer.



B-3 Pre-Printed

This function can set the paper length and gap size before auto-calibrate the sensor sensitivity. It can to get the sensor sensitivity accurately.

Bline Mode	3/4
Manual	
> Pre-Printed	
Exit	

When enter [Pre-Printed] option, you will see following message. Please complete there steps

Paper Len. 00812 dot	 Press the DOWN
Bline Size 0024 dot	 Press the DOWN button to move the cursor from Left digit to right digit, and press the UP button to set the value from "0" to "9" and the "dot/ mm/ inch". Press the SELECT button to set the bline size into the printer.
Bline Mode Pre-Printed	 Then, printer will feed labels to calibrate the sensor sensitivity automatically. When calibration is completed, the LCD screen will return to the previous menu.

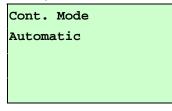
C. Cont. Mode

Calibration	3/4	Cont. Mode 1/3
Bline Mode		> Automatic
> Cont. Mode		Manual
Exit		Exit

Press the UP (and DOWN (buttons to scroll the cursor to the sensor type. Press the SELECT button to enter the black-mark sensor calibration mode.

C-1 Automatic

When enter the [Automatic] option, you will see following message and printer will calibrate the sensor sensitivity automatically. When calibration process is completed, the LCD screen will return to the previous menu.



C-2 Manual

In case "Automatic" sensor calibration cannot apply to the media, please use "Manual" function to calibrate the sensor manually.

Cont. Mode	2/3
Automatic	
> Manual	
Exit	

When enter [Manual] option, you will see following message. Please complete there steps

Cont. Mode Remove Label Intensity Ref. Level xxx	1. Remove the continuous label. Press the SELECT button to set the value into the printer.
Cont. Mode Scan Paper Intensity Ref. Level xxx	2. Then, put the continuous label under the Media sensor. Press the SELECT button to set the value into the printer.

Cont. Mode

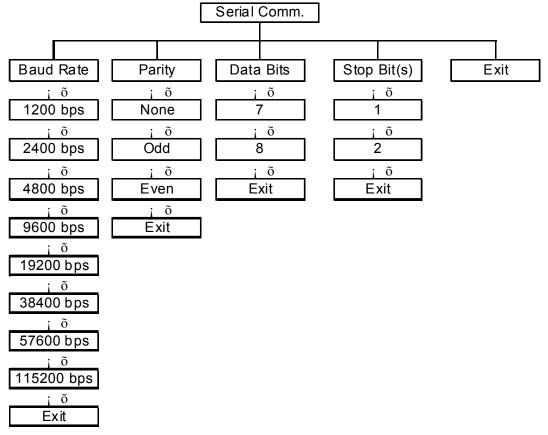
Complete

Intensity

Ref. Level xxx

3. The sensor calibration is complete. Press The **SELECT** button the LCD screen will return to the previous menu.

3.1.3 Serial Comm.



3.1.3.1 Baud Rate



This option is used to set the RS-232 baud rate. The default setting is 9600 bps. Press UP ④ and DOWN ☉ buttons to select the different baud rate and press SELECT button to set the value into printer. When you enter this list, the baud rate value in the right side of ">" icon is the current setting in the printer. Press ■ MENU key to cancel the setting and return to the previous menu.

3.1.3.2 Parity



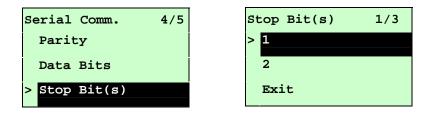
This option is used to set the RS-232 parity. The default setting is "None". Press **UP** \odot and **DOWN** \odot buttons to select the different parity and press **SELECT** button to set the value into printer. When you enter this list, the parity in the right side of ">" is the printer current setting. Press \blacksquare **MENU** key to cancel the setting and return to the previous menu.

3.1.3.3 Data Bits:



This option is used to set the RS-232 Data Bits. The default setting is "8" data bits. Press UP \odot and DOWN \odot buttons to select the different Data Bits and press SELECT button to set the value into printer. When you enter this list, the Data Bits in the right side of ">" icon is the printer current setting. Press \blacksquare MENU key to cancel the setting and return to the previous menu.

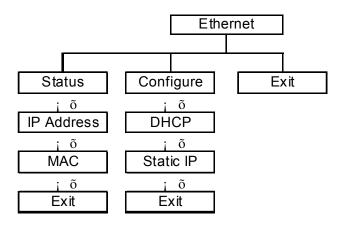
3.1.3.4 Stop Bit(s):



3.1.4 Ethernet

Use this menu to configure internal Ethernet configuration check the printer's Ethernet module status, and reset the Ethernet module. This function is available on the LCD display when Ethernet card is installed.

Press UP \odot and DOWN \odot buttons to select the different options and press SELECT button to enter the option. Press \blacksquare MENU key to cancel the setting and return to the previous menu.



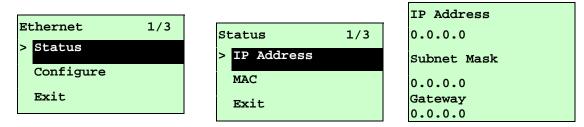
Note:

This function is available for M7 PLUS series only and option for M7.

3.1.4.1 Status: (IP Address / MAC)

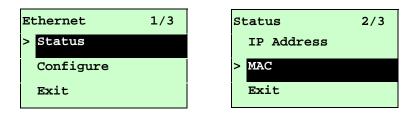
Use this menu to check the Ethernet setting status.

3.1.4.1.1 IP Address



The IP address information will be shown on the LCD display. Please press **SELECT** or \blacksquare **MENU** button to return to the previous menu.

3.1.4.1.2 MAC

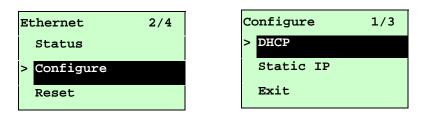


The MAC address information will be shown on the LCD display. Please press **SELECT** or \blacksquare **MENU** button to return to the previous menu.

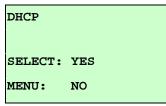
3.1.4.2 Configure: (DHCP / Static IP)

Use this menu to set the printer's DHCP and Static IP.

3.1.4.2.1 DHCP



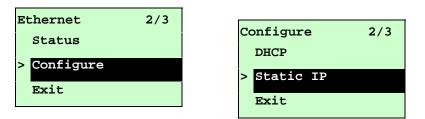
Press UP ⊕ and DOWN ⊕ buttons to select the DHCP function and press SELECT to enter. Press ≡ MENU key to cancel the setting and return to the previous menu.



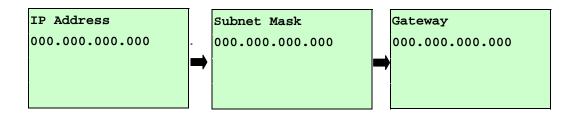
Press **SELECT** button the printer will set DHCP and restart to reset the setting. Press \blacksquare **MENU** button to return to the previous menu.

3.1.4.2.2 Static IP

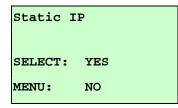
Use this menu to set the printer's IP address, subnet mask and gateway.



Press UP \odot and DOWN \odot buttons to select the different options and press SELECT button to enter the option. Press \blacksquare MENU key to cancel the setting and return to the previous menu.



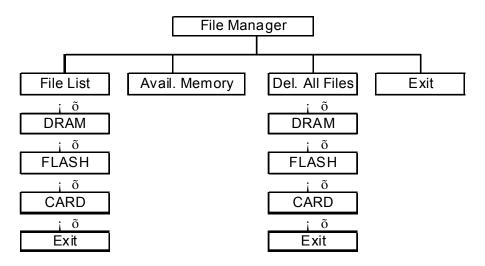
Press **DOWN** [⊙] button to move the cursor from left to right digits and press the **UP** [⊙] button to scroll the value from "0" to "9". Press **SELECT** button to next setting.



Press the **SELECT** button printer will restart to reset the Ethernet module setting. Press \blacksquare **MENU** key to cancel the setting.

3.2 File Manager

This feature is used to check the printer available memory and file list.



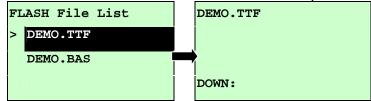
3.2.1 File List

Use this menu to show, delete and run (.BAS) the files saved in the printer DRAM/Flash/Card memory.

To show the files

File Manager 1/	File List 2	FLASH File List
> File List	> FLASH	> DEMO.TTF
Avail. Memory	CARD	DEMO.BAS
Del. All Files	Exit	

To delete the file Please follow the order to press the **DOWN** ☉ button.



To run the file (.BAS) Please follow the order to press the **SELECT** button.

FLASH File List	DEMO.BAS
DEMO.TTF	406 Byte(S)
> DEMO.BAS	DOWN:
	SELECT:

3.2.2 Avail. Memory

Use this menu to show available memory space.

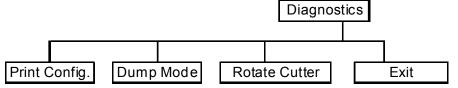
File Manager 2/4	Avail. Memory
File List	DRAM: 256 KB
> Avail. Memory	FALSH: 6656 KB
Del. All Files	CARD: 0 KB

3.2.3 Del. All Files

Use this menu to delete all files. Press **SELECT** button to delete all files in the device. Press \blacksquare **MENU** to cancel deleting files and go back to previous menu.

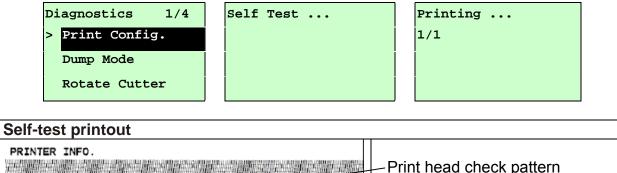
File Manager 3/4	File List 1/4	Del. All Files
File List	> DRAM	
Avail. Memory	FALSH	SELECT: YES
> Del. All File	CARD	MENU: NO

3.3 Diagnostics



3.3.1 Print Config.

This feature is used to print current printer configuration to the label. On the sconfiguration printout, there is a print head test pattern, which is useful for checking if there is any dot damage on the print head heater element.

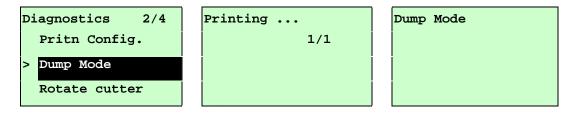


PRINTER INFO.	
en de la calendaria de la	Print head check pattern
	Model name and F/W version
XXXXXXXX Version: X.XX	Printed mileage (meter)
MILAGE(m): 0	Firmware checksum
CHECKSUM: XXXXXXXX	
SERIAL PORT: 9600,N,8,1	Serial port configuration
CODE PAGE: 850	Code page
COUNTRY CODE: 001	
SPEED: X INCH	Country code
DENSITY: 8	Print speed (inch/sec)
SIZE: 4.00 , 4.00	
GAP: 0.12 , 0.00	Print darkness
TRANSPARENCE: XX	Label size (inch)

FILE LIST:	Gap distance (inch)
DRAM FILE: 0 FILE(S)	+ Gap/black mark sensor sensitivity
FLASH FILE: 0 FILE(S)	
PHYSICAL DRAM: XXXX KBYTES	Numbers of download files
AVAILABLE DRAM: XXXX KBYTES FREE	Total & available memory space
PHYSICAL FLASH: XXXX KBYTES	
AVAILABLE FLASH: XXXX KBYTES FREE	
END OF FILE LIST	

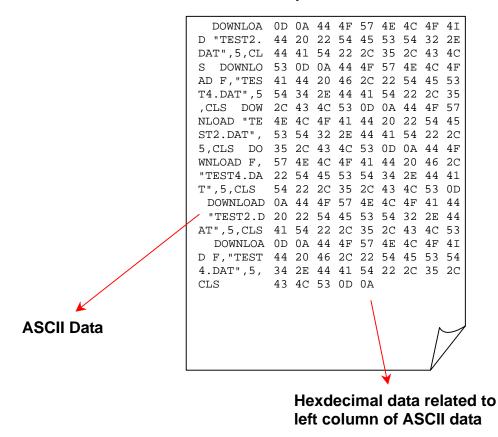
3.3.2 Dump Mode

Captures the data from the communications port and prints out the data received by printer. In the dump mode, all characters will be printed in 2 columns as following. The left side characters are received from your system and right side data are the corresponding hexadecimal value of the characters. It allows users or engineers to verify and debug the program.



Note:

- 1. Dump mode requires 4" wide paper width.
- 2. Turn off / on the power to resume printer for normal printing.
- 3. Press FEED button to back to the previous menu.

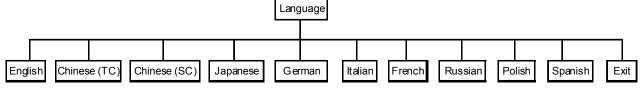


3.3.3 Rotate Cutter

In case paper is jammed in the cutter, this feature can rotate the cutter blade forward or reverse direction, which is helpful to remove the jammed paper easily from the cutter.

Diagnostics 3/4	UP: Fwd.
Print Config.	DOWN: Rev.
Dump Mode	
> Rotate Cutter	MENU: Exit

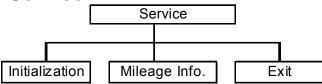
3.4 Language



This option is used to setup the language on LCD display.

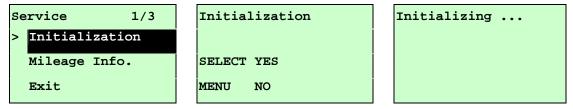
Press UP \odot and DOWN \odot buttons to scroll the curser to desire language and press SELECT button to select this option. Press \blacksquare MENU key to cancel the setting and return to the previous menu. The default language setting is English.

3.5 Service



This feature is used to restore printer settings to defaults and display printer mileage information.

3.5.1 Initialization



The printer settings are restored to defaults as below once printer is initialized. *Note :*

When printer initialization is done, please calibrate the gap or black mark sensor before printing.

Parameter	Default setting	
Speed	M7 PLUS 6 IPS (152 mm/sec)	
	M7 4 IPS (101.6 mm/sec)	
	M7 (600dpi) 3 IPS (76.2 mm/sec)	
Density	8	
Label width	4.00"(101.6mm)	
Label height	4.00"(101.6mm)	
Sensor type	Gap sensor	
Gap setting	0.12"(3.0mm)	
Print direction	0	
Reference point	0,0(upper left corner)	
Offset	0	
Print mode	Batch mode	
Serial port settings	9600 bps, none parity, 8 data bits, 1 stop bit	
Code page	850	

Country code	001
Clear flash memory	No
Shift X	0
Shift Y	0
Gap sensor sensitivity	3 (Will be reset. Need to re-calibrate the gap)
Bline sensor sensitivity	2 (Will be reset. Need to re-calibrate the gap)
Language	English
IP address	DHCP

3.5.2 Mileage Info.

Use this option to check the printed mileage (displayed in meter).

Service 1/3	Mileage:(m)
Initialization	
> Mileage Info.	Labels: (pcs.)
Exit	

4. Diagnostic Tool

The Diagnostic Utility is a toolbox that allows users to explore the printer's settings and status; change printer settings; download graphics, fonts, and firmware; create printer bitmap fonts; and to send additional commands to the printer. Using this convenient tool, you can explore the printer status and settings and troubleshoot the printer.

Note: This utility works with printer firmware V6.00 and later versions.

4.1 Start the Diagnostic Tool

- 1. Double click on the Diagnostic tool icon
- DiagToolexe to start the software. 2. There are four features (Printer Configuration, File Manager, Bitmap Font Manager, Command Tool) included in the Diagnostic utility.

	🖨 Diagnostic Tool					
	About					
Features tab				USB 💌	Setup	1
1	Printer Configuration Fi	le Manager Bitmap Font Manager Com	mand Tool		_	Interface
	Printer Function	Printer Configuration				
	Factory Default	Printer Infomation		Unit		
	Dump Text	Version: Milage: Km	a. 1.a. [- inch	C mm	
Printer functions	Configuration Page		Check Sum:			
Printer functions	RTC Setup	Printer Setup Speed:	Ribbon:	<u> </u>		
	Calibrate Sensor	Density:	Code Page:	-		
	Reset Printer	Paper Width(unit):	Country Code:	<u> </u>		
	Print Test Page	Paper Height(unit):	Head-up Sensor:	*		
	Ignore AUTO.BAS	Media Sensor:	Beprint After Error:	•		
	Ethernet Setup	Gap(unit):	Gap Inten.:			Printer setup
	Printer Status	Gap Offset(unit):	Bline Inten.:			
	Ready	Post-Print Acttion:	Continuous Inten.:			
	Head Open	Cut Piece:	Baud Rate:	*		
	Paper Jam Out of Paper	Reference:	Data Bits:			
Printer Status	Out of Ribbon	Direction:	Parity:			
	Pause		-			
	Printting	Offset:	Stop Bit(s):			
	Other Error	Shift X:				
		Shift Y:				
	Get Status	Load	Save	Set	Read	
	LPT1 COM1 96	500,N,8,1 RTS		2008/2/19 下	午 02:04:29	

4.2 Printer Function (Calibrate sensor, Ethernet setup, RTC setup...)

- 1. Select the PC interface connected with bar code printer.
- 2. Click the "Function" button to setting.
- 3. The detail functions in the Printer Function Group are listed as below.

Functio	Description
Factory Default	Initialize the printer and restore the settings to factory default.
Dump Text	To activate the printer dump mode.
Configuration Page	Print printer configuration.
RTC Setup	Synchronize printer Real Time Clock with PC.
Calibrate Sensor	Calibrate the sensor specified in the Printer Setup group media
Calibrate Serisor	sensor field.
Reset Printer	Reboot the printer.
Print Test Page	Print a test page.
Ignore AUTO.BAS	Ignore the downloaded AUTO.BAS program.
Ethernet Setup	Setup the IP address, subnet mask, gateway for the on board Ethernet.
	Factory Default Dump Text Configuration Page RTC Setup Calibrate Sensor Reset Printer Print Test Page Ignore AUTO.BAS

Note:

For more information about Diagnostic Tool, please refer to the diagnostic utility quick start guide in the CD disk \ Utilities directory.

5. Troubleshooting

5.1 Common Problems

The following guide lists the most common problems that may 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	* The power cord is not properly	* Plug the power cord in printer and outlet.
not illuminate	connected.	* Switch the printer on.
Carriage Open	* The printer carriage is open.	* Please close the print carriage.
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.
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.
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.
Take Label	* Peel function is enabled.	 * If the peeler module is installed, please remove the label. * If there is no peeler 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 200 g/m2 (for regular cutter) or 300 g/m2 (for heavy duty cutter). * 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 to pin connected. 	 * Re-connect cable to interface. * If using serial cable, Please replace the cable with pin to pin connected. Check the baud rate setting. The default baud rate setting of printer is 9600,n,8,1. * If using the Ethernet cable, Check if the Ethernet RJ-45 connector green LED is lit on Check if the Ethernet RJ-45 connector amber LED is blinking. Check if the printer gets the IP address when using DHCP mode. Check if the IP address is correct when using the static IP address. Wait a few seconds let the printer get the communication with the server then check the IP address setting again. * Chang a new cable. * Reload the ribbon again. * Clean the printhead. * The print density setting is incorrect. * Printhead's harness connector is not well connected with printheat. Turn off the printer and plug the connector. * Check if the stepping motor is plugging in the right connector. * Check your program if there is a command PRINT at the end of the file and there must have CRLF at the end of each command line.
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 50 files. * The max. user addressable memory space of DRAM i * The max. numbers of file of FLASH is 256 files. * The max. user addressable memory space of FLASH is 2560 KB for M7 and 6656KB for M7 PLUS .
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. - 128MB - 256MB - 512MB - 1GB - 4GB SDHC CLASS 6 * Approved SD card manufacturers; SanDisk, Transcend

PS/2 port does not work	 * Did not turn off power prior to plug in the PS/2 keyboard. * PS/2 keyboard is damaged. * PS/2 keyboard doesn't plug-in correctly. * There is no BAS file in the printer. 	 * Turn off printer power prior to plug in the PS/2 keyboard . * Plug the PS/2 keyboard again. * Make sure the keyboard is fine. * Make sure if there is any BAS file downloaded into pri
Poor Print Quality	 * Ribbon and media is loaded incorrectly * Dust or adhesive accumulation on the head. * Print density is not set properly. * Printhead element is damaged. * Ribbon and media are incompatible. * The printhead pressure is not set properly. 	 * Reload the supply. * Clean the printhead. * Clean the platen roller. * Adjust the print density and print speed. * Run printer self-test and check the print head test pattern if there is dot missing in the pattern. * Change proper ribbon or proper label media. * Adjust the printhead pressure adjustment knob. - If the left side printout is too light, please adjust the left side pressure adjustment knob to the higher index (higher pressure). If the pressure adjustment 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. - If the right side printout is too light, please adjust the r pressure. - If the right side printout is too light, please adjust the r pressure. - If the right side printout is too light, please adjust the r pressure adjustment knob to the higher index (higher pressure) to improve the print quality. * If the label thickness is more than 0.22 mm, the print of might be not good enough, please adjust the heater line adjustment screw counter clockwise to get the best print quality. * The release lever does not latch the printhead properly.
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 lit	* The printer initialization is unsuccessful.	* Turn OFF and ON the printer again. * Initialize the printer.

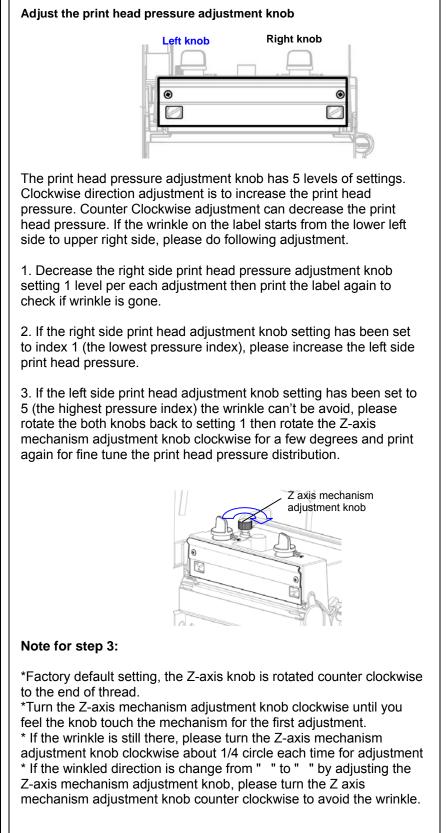
LCD panel is dark and LEDs are lit on, but The label is feeding forward	* The LCD panel harness connector is loose.	* The LCD panel harness connector is plugged upside down.
Ribbon encoder sensor doesn't work	* The ribbon encoder sensor connector is loose.	* Fasten the connector.
Ribbon end sensor doesn't work	 * The connector is loose. * The ribbon sensor hole is covered with dust. 	* Check the connector. * Clear the dust in the sensor hole by the blower.
Peel sensor is not working	 * Peel sensor is not located on the correct position. * The connector is loose. 	 * Make sure that the media goes through the Peel sensor. * Plug the connect cable correctly.
Cutter is not working	* The connector is loose.	* Plug in the connect cable correctly.
Label feeding is not stable (skew) when printing	* The media guide does not touch the edge of the media.	 * 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.

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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. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software BarTender, please set the vertical offset in the driver. * If using the software bar vertical offset in the driver. * If
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.
Multi interface board do work	* The installation is incorrect.	* Check if the board is plugged in the right connector.
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	 * Printhead pressure is incorrect. * Ribbon installation is incorrect. * Media installation is incorrect. * Print density is incorrect. * Media feeding is incorrect. 	 * Please refer to the 5.2 chapter. * Please set the suitable density to have good print quality. * Make sure the label guide touch the edge of the media guide.
Gray line on the blank	* The printhead is dirty.	* Clean the printhead.
label	* The platen roller is dirty.	* 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.

5.2 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.

Adjustable Printer Parts	Print head pressure adjustment knob
Symptom	 Wrinkle happens from label lower left to upper right direction (" ") Wrinkle happens from label lower right to upper left direction (" ")
Wrinkle Example	



Adjust the print head pressure adjustment knob Left knob Right 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.

1. 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.

2. 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.

6. 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	Method	Interval
	 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. 	Clean the print head when changing a new label roll
Print Head	Print Head Cleaner Pen	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
Tear Bar /Peel Bar	Use the lint-free cloth with 100% ethanol to wipe it.	As needed
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% Ethanol. 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.



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