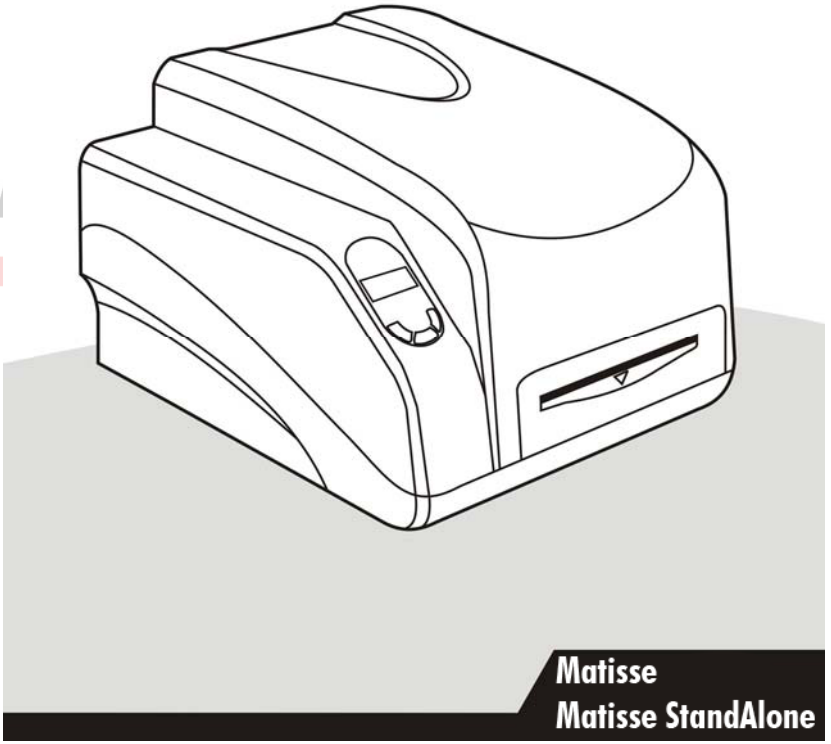
Barcode Label Printer

Matisse & Matisse Stand Alone
Matisse Plus & Matisse Plus Stand Alone

User's Manual



Matisse
Matisse StandAlone

FCC Notice

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.

This equipment may generate, use and/or radiate radio frequency energy. If not installed and used in full accordance with this instruction manual, interference to radio communications may occur. This equipment complies with the limits for a Class A Information Technology Equipment pursuant to Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may also cause interference. In such case the user will be required, at his own expense, to correct the interference using whatever means necessary.

Disclaimer

This manual has been validated and reviewed for accuracy. The instructions and descriptions it contains are accurate for the Meteor Matisse Label Printer at the time of this manual's printing. However, succeeding printers and manuals are subject to change without notice. Meteor srl assumes no liability for damages incurred directly or indirectly from errors, omissions or discrepancies between the printer and this manual.

Important Safety Instructions

- Only qualified and trained service technicians should attempt to repair the printer.
- Do not place the printer on or near a heat source.
- Be sure that the output of the power adapter is 24VDC and your power source matches the rating listed on the power adapter. Be certain your power source is grounded.
- To avoid getting an electric shock, do not use a worn or damaged power cord. If the power cord becomes damaged or frayed, replace it immediately.
- Do not insert anything into the ventilation slots or openings on the printer.
- The printer and power adapter should never be operated in a location where either one can get wet. Personal injury may result.
- The printhead becomes hot while printing. To protect from damaging the printhead and risk of personal injury, avoid touching the printhead.
- To get increased printhead longevity and higher quality printouts, always use approved labels, tags and thermal transfer ribbons. Approved supplies can be ordered from your dealer.
- Static electricity that accumulates on the surface of the human body or other surfaces can damage or destroy the printhead or electronic components in this device. DO NOT touch the printhead or the electronic components with bare hands.
- Place the printer on a flat, firm, solid surface.

Possible Corrective Action

- Never jam or block the air vents, or operate in a high temperature environment.
- Turn off the power when not in use for extended periods.
- Follow all recommendations and setup instructions included in this manual.

Contents

Preface

Welcome to Meteor Matisse label printer. The Matisse is designed to provide general-purpose and high-performance printing capabilities.

Matisse barcode label printer is a new generation of printing equipment featuring high performance and multiple functions. It stands out with its modern appearance and excellent functionality while utilizing a series of new and cutting edge technologies. Relying on our wealth of experience, we carefully designed the units to be not just rugged and durable but also easily operated and maintained. We utilize a 32-bit embedded ARM CPU and a High-tech system platform to guarantee the highest performance and quality possible.

This manual explains how to set up and begin using your Matisse printer. It also provides detailed information on configuring your printer, basic operations, care and troubleshooting.

Please read this manual carefully before using the Matisse printer.

Important Notice, Read Me First!

Thermal printhead can be easily damaged due to its precision construction. A printhead damaged by misuse is not covered under the terms of the warranty. To ensure longevity of the printhead, please note the following:

1. DO NOT scrape or use tools that might damage the printhead surface.
2. To protect from corroding the printhead, DO NOT touch the printhead with bare hands.
1. DO NOT use thermal paper or thermal transfer ribbon, which contains Na, K or Cl.
2. Keep printhead from any form of liquid or dampness.
3. Use a Cotton Swab dipped in anhydrous isopropyl alcohol to clean the printhead only.
4. Always use high-quality consumables:
   (1) When the printhead module is closed, pressure is placed directly onto the printhead; dirt such as paper scraps, sand, dust and glue can scrape or damage the printhead.
   (2) The TPH is also easily damaged by Static Electricity, which may be generated by poor quality ribbons.

   Always inspect consumables for quality before purchasing.

Chapter 1 Introduction

Specifications

Specifications for Printer

Model	Matisse SA	Matisse
Printing method	Direct thermal & Thermal transfer	
Printing resolution	203 dpi (8 dots/mm)	300 dpi (11.8 dots/mm)
Max printing speed	4ips (101.6 mm/s)	3ips (76.2 mm/s)
Max printing width	4.25″ (108 mm)	4.17 (106 mm)
Max printing length	315″ (8000 mm)	157″ (4000 mm)
Memory	2 MB/4 MB* Flash ROM, 16 MB SDRAM	
Media	Roll-feed, die-cut, continuous, fan-fold, tags, tickets in plain paper or thermal paper Width: 4.3″（110 mm）max., 0.98″（25 mm）min. Supply roll: OD 6″(152 mm) max., ID 1″(25.4 mm) min. Thickness: 0.003″～0.008″ (0.08～0.20 mm), including liner	
Ribbon	Wax, Wax/Resin, Resin Ribbon roll: OD 2.75″(70 mm) max., ID 1″(25.4 mm) core Max width: 110 mm; Max length: 300 M	
Fonts	Five built-in ASCII fonts; Optional multiple language fonts	
Bar Code Types	1D Barcode : Code 39, Code 93, Code 128/subset A,B,C, Codabar, Interleave 2 of 5, UPC A/E 2 and 5 add-on, EAN-13/8/128, UCC-128, etc; 2D Barcode : MaxiCode, PDF417, Data Matrix, QR etc.	
Media sensor	Reflective (Adjustable)/Transmissive**	
Interfaces	RS-232 serial, USB (or Centronics)**, PS/2*	
LCD Display	2 line graphic*	

Power rating***	24 VDC, 2.0 A
Weight	3.5 kgs
Dimensions	W 256 x D 329 x H 200mm
Operation environment	Temperature: 32° F ~ +104° F (0° C ~ 40° C) Relative humidity: 5% - 85% non condensing
Storage environment	Temperature: -40° F ~ +140° F (-40° C ~ 60° C) Relative humidity: 5% - 85% non condensing
Optional items	Cutter kit, Internal 100/10M Ethernet Interface card

* *4MB Flash ROM, PS/2 port and LCD display are only provided for Matisse Stand Alone models;*

** *The Centronics interface and Transmissive Sensor maybe not standard issue and is factory dependent. Please verify your requirements before ordering;*

*** *Power for the Matisse barcode label printer is provided via an external power adaptor.*

Specifications for Power Adapter

Input	AC 100~240 V, 47~63 Hz
Output	DC 24 V, 2.0 A
Environment	0° C ~ 40° C

Unpacking and Inspection

Inspect the shipping carton(s) for possible shipping damage, if damage is discovered, notify the shipping company to report the nature and extent of the damage.

Please check the items according to the Packing List. If there are any items missing, notify your authorized reseller.

Packing List（Figure 1）:

1. Printer	1 pcs
2. Power Adapter	1 pcs
3. Ribbon Spindle	2 pcs
4. Media Spindle	1 pcs
5. Core Adapter	2 pcs
6. Media Roll Guide	2 pcs
7. Ribbon	1 pcs
8. Sample Media	1 pcs
9. CD Rom	1 pcs
10. Quick Start Guide	1 pcs

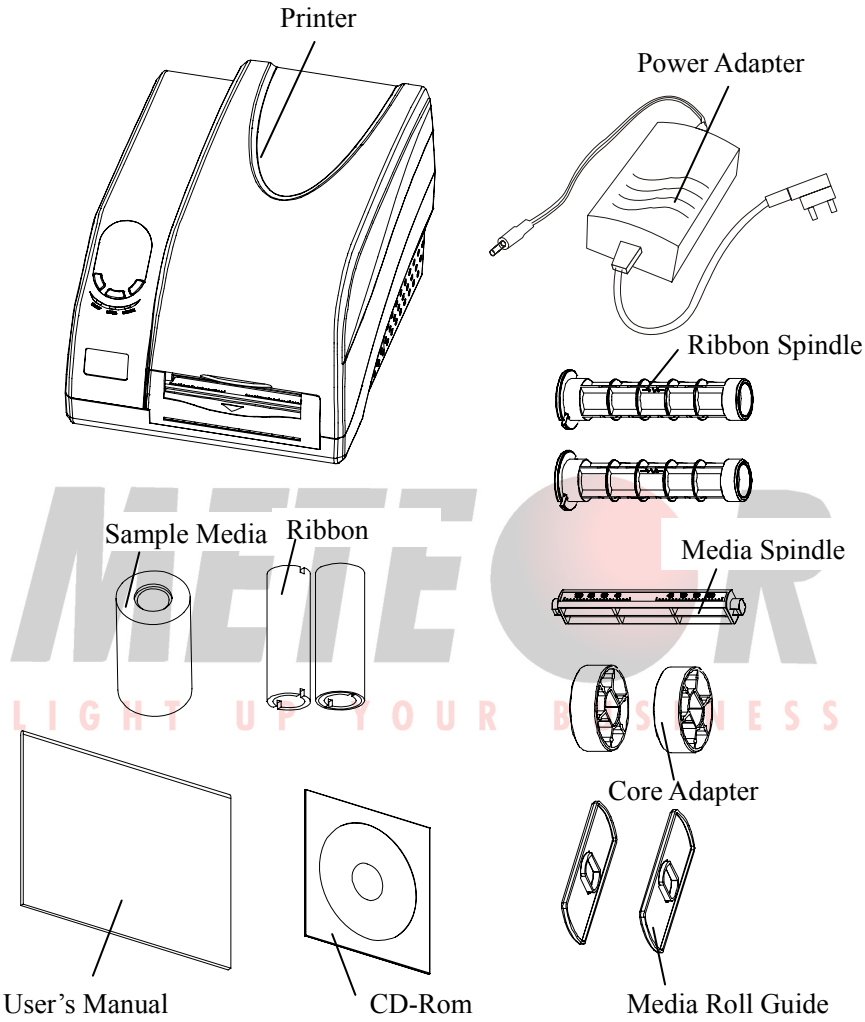


Figure 1 Printer and accessories

Chapter 2 Getting Started

Setting up

Before setting up the printer you should consider the following:

1. Make sure there is adequate space around the printer for loading consumables and proper ventilation.
2. Make sure the printer is close to the host so the interface cable is easily accessible at either end.

Main Parts and Features

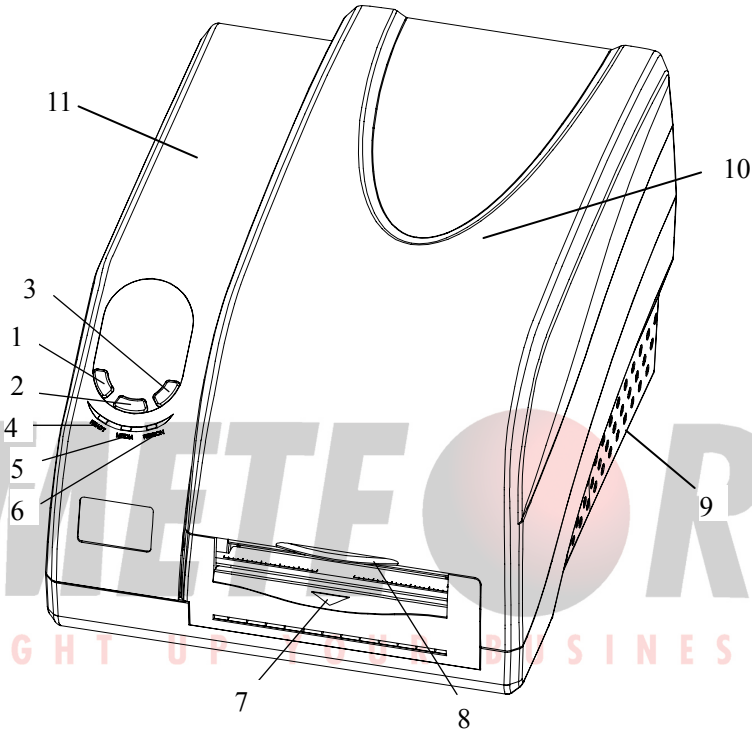


Figure 2

1. PAUSE Button	2. FEED Button	3. CANCEL Button
4. READY Indicator	5. MEDIA Indicator	6. RIBBON Indicator
7. Media Exit Path	8. Cover Handle	9. Bottom Case
10. Top Cover	11.Left Side Cover	

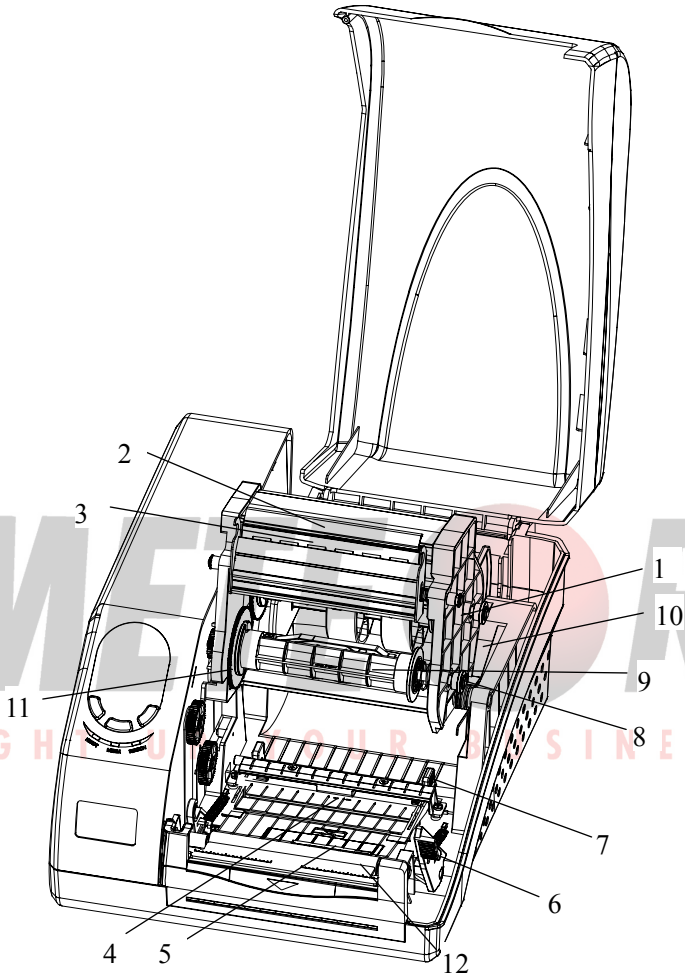


Figure 3

1. Printhead Module	2. Printhead Bracket	3. Printhead
4. Transmissive Sensor	5. Reflective Sensor	6. TPH Release Lever
7. Media Guide	8. Ribbon Loading Knob	9. Ribbon Supply Spindle
10. Media Compartment	11.Guide Wheel	12. Platen Roller

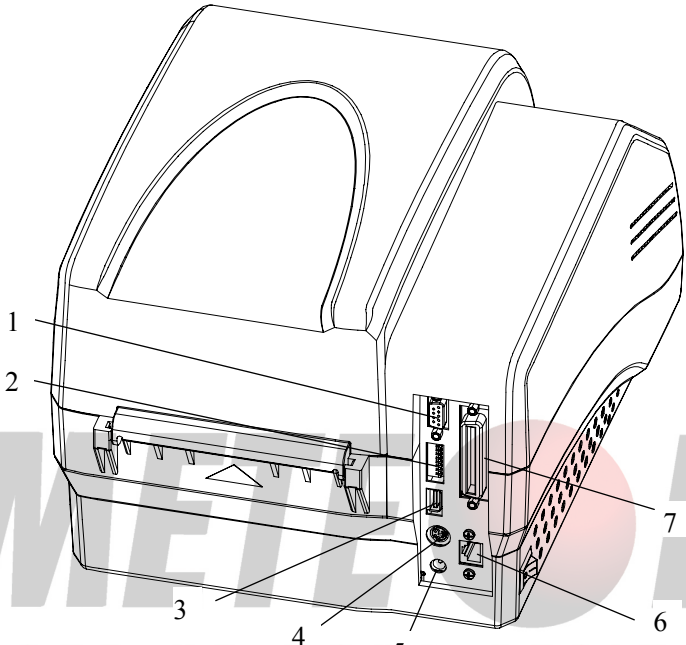


Figure 4

1. RS232 Serial Port
2. DIP Switches
3. USB Port
4. PS/2 Port
5. DC IN Port
6. Ethernet Port
7. Centronics Port

Note: The above figure illustrates all possible interface ports on a Matisse printer, but some ports may not be available for your printer. Please check your requirements when purchasing the printer.

Connecting the Printer

Power Connection

Caution:(1) Use of the wrong adapter could damage your printer. Postek assumes no liability for any damage in such case. The rating for the printer is 24VDC.

(2) Do not use the printer near liquids or corrosive chemicals.

1. Make sure the printer is switched OFF.
2. Connect the power cord to the Power Adapter.
3. Connect the Power Adapter's DC output plug to the DC IN port on the back of the printer.
4. Plug the power cord into a live wall outlet.

Interface Connection

Caution: Make sure the printer is switched OFF before connecting the interface cable.

The interface between the printer and the host will use either a serial or USB (or parallel) cable. Contact your reseller for Ethernet connection options.

1. The printer identifies the communication port automatically.
2. The default values of printer port can be obtained from the self-test report. (See Chapter 2 Operation Basics - Advanced Functions - Self Test)
3. Cable configurations for serial (RS-232C) and parallel

(Centronics) interfaces are shown in Appendix A of this guide.

4. Please take the following measures to reduce cable noise.
   （1）Reduce the length of the interface cable (keep the cable length under 1.83 meters / 6 feet) if required.
   （2）Keep the communication cable separate from power cords.

Loading the Ribbon

Caution: (1) Make sure the ink side of your ribbon faces outwards. Always make sure the ink side of the ribbon faces the media and NOT the printhead.

(2) The maximum width of the ribbon is 110mm. When using a ribbon roll with a width less than 110m, please place the ribbon roll in the middle of the Ribbon Spindle corresponding to the symmetry symbol (→|←).

(3) This section is not applicable to direct thermal printing.

1. Lift the top cover (Figure 5-1).
2. Push the TPH release lever to release the Printhead Module.
3. Lift the Printhead Module to expose the ribbon supply holder (Figure 5-2).
4. Unwrap the ribbon roll pack and separate the ribbon roll and the core (Figure 5-3).
5. Slide the roll of Ribbon onto one of the Ribbon Spindles and the core onto the other spindle (Figure5-3).
6. Load the Ribbon Spindle into the printer and route the ribbon through the Printhead Module as shown in Figure 5-4.
7. Wrap the end of the ribbon around the core (Figure5-5).
8. Load the core into the Ribbon rewinder (Figure5-6).
9. Turn the guide wheel on the left of the core to take up the loose ribbon

and tighten the ribbon.

10. Close the Printhead Module and press down until it locks into place.

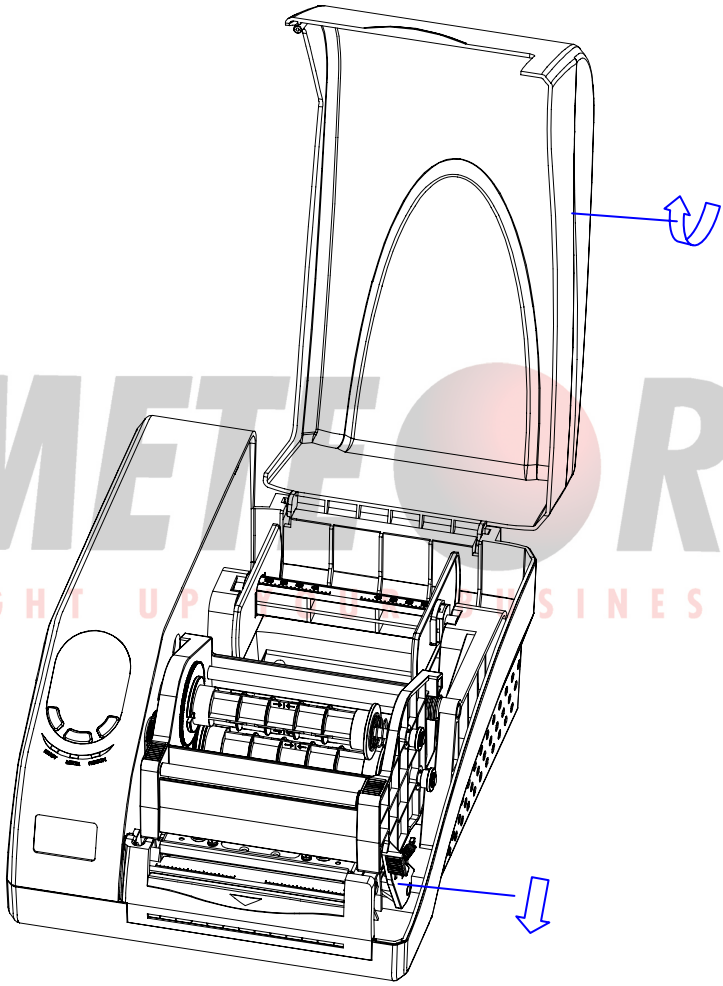


Figure 5-1

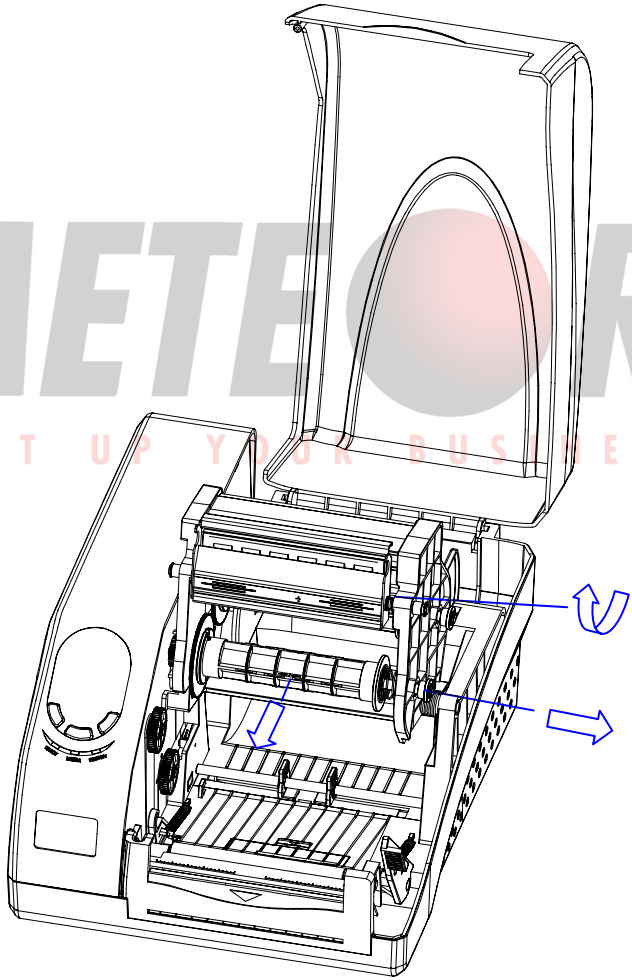
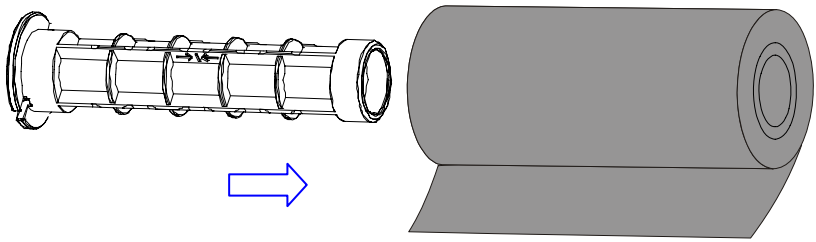


Figure 5-2



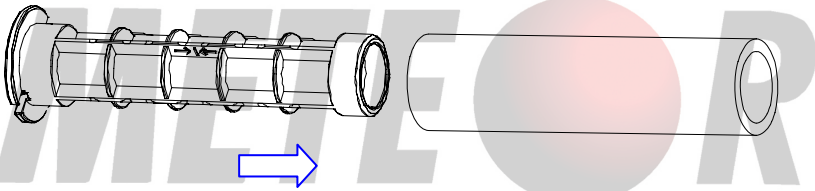


Figure 5-3

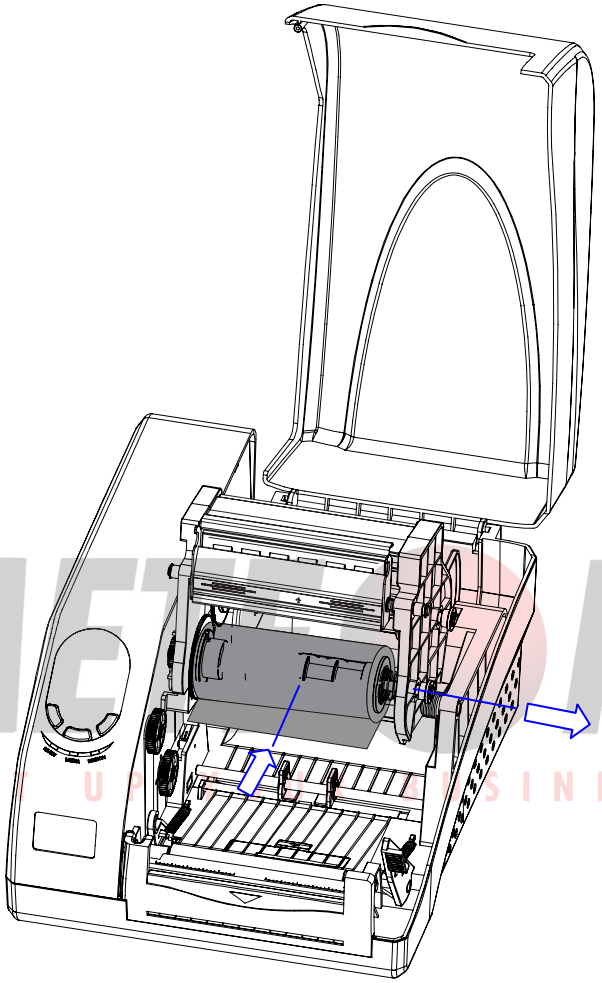


Figure 5-4

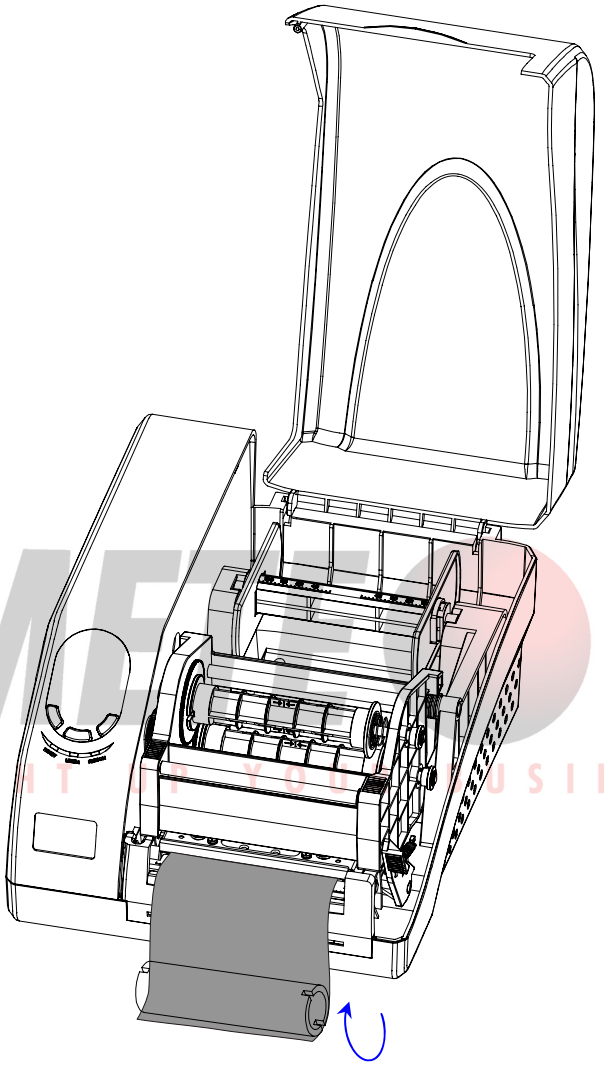


Figure 5-5

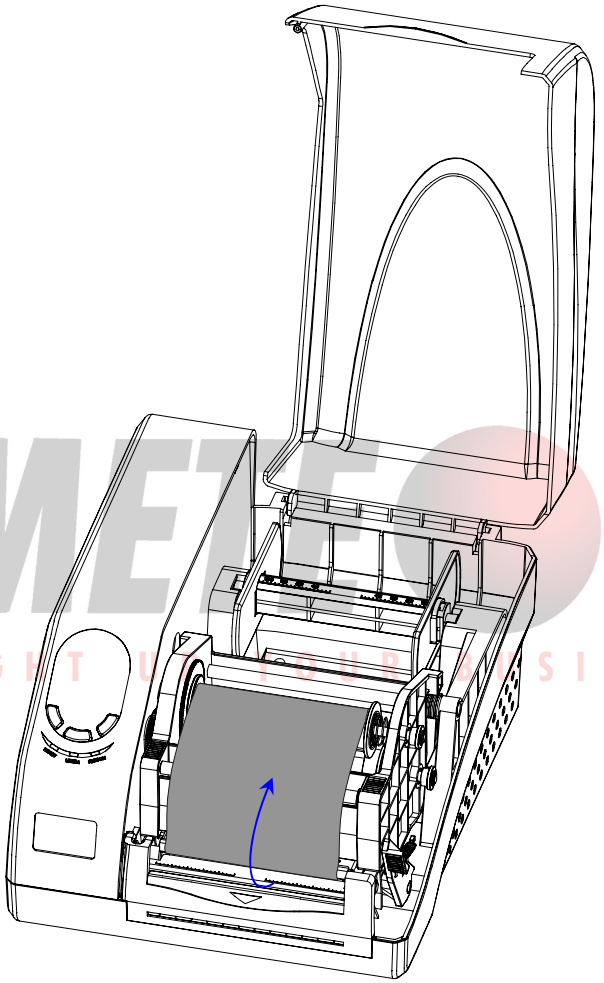


Figure 5-6

Loading the Media

Matisse printers can be operated in three different modes: Standard mode, Peel-off mode, or Cutting mode.

-- In Standard mode, each printed label remains on the backing liner.

-- In Peel-off mode, each printed label is peeled away from the backing liner automatically.

-- In Cutting mode, the printer automatically cuts the label after it is printed.

Standard Mode

1. Lift up the top cover to expose the media compartment (Figure 6-1).
2. Load a roll of media (labels facing up) on the Media Spindle, then slide the two Media Roll Guides with their smooth sides toward the media onto the Media Spindle from each end until snug against the media. If you are placing a roll of media with a 3″ ID core, please slide the two Core Adapters onto the Media Spindle first (Figure 6-2).
3. Insert them into the printer.
4. Corresponding to the scale on the Media Spindle, position the media roll in the middle of the Spindle.
5. Release and lift the Printhead Module.
6. Route the media as shown in Figure 6-3.
7. Slide the Media Guide to the edge of the media.
8. Close the Printhead Module and press down until it locks into place (Figure 6-4).
9. Close the cover and press the ‘Feed’ button to feed the media and ensure proper tracking. If the printer does not correctly sense the top of each label, it may be necessary to perform the Calibration Procedure in the Operation Basics section.

Peel-off Mode: The loading guide will be provided with the peeler kit.

Cutting Mode: The loading guide will be provided with the cutter kit.

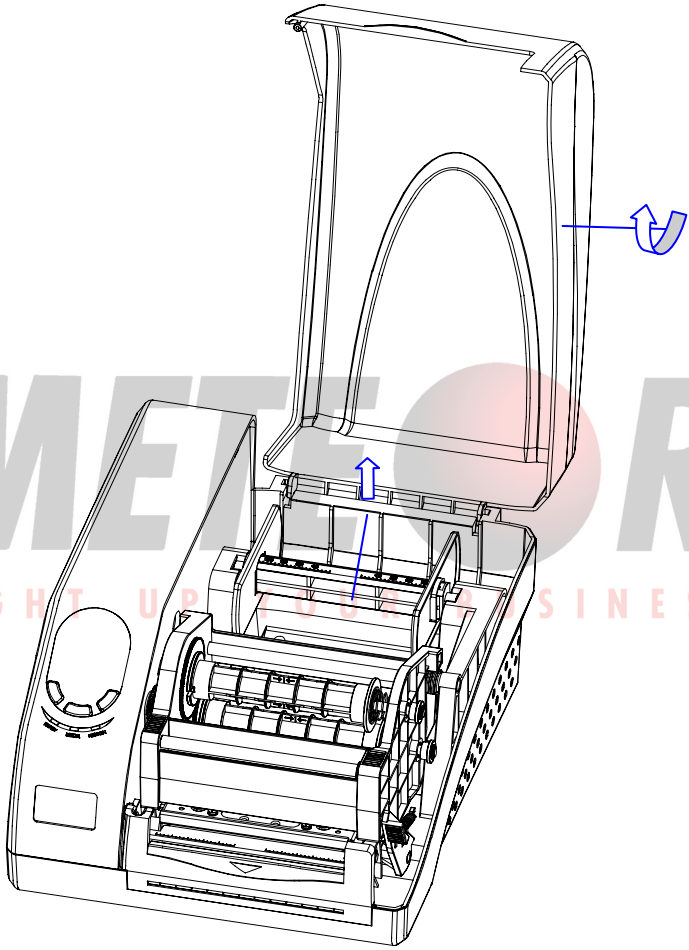


Figure 6-1

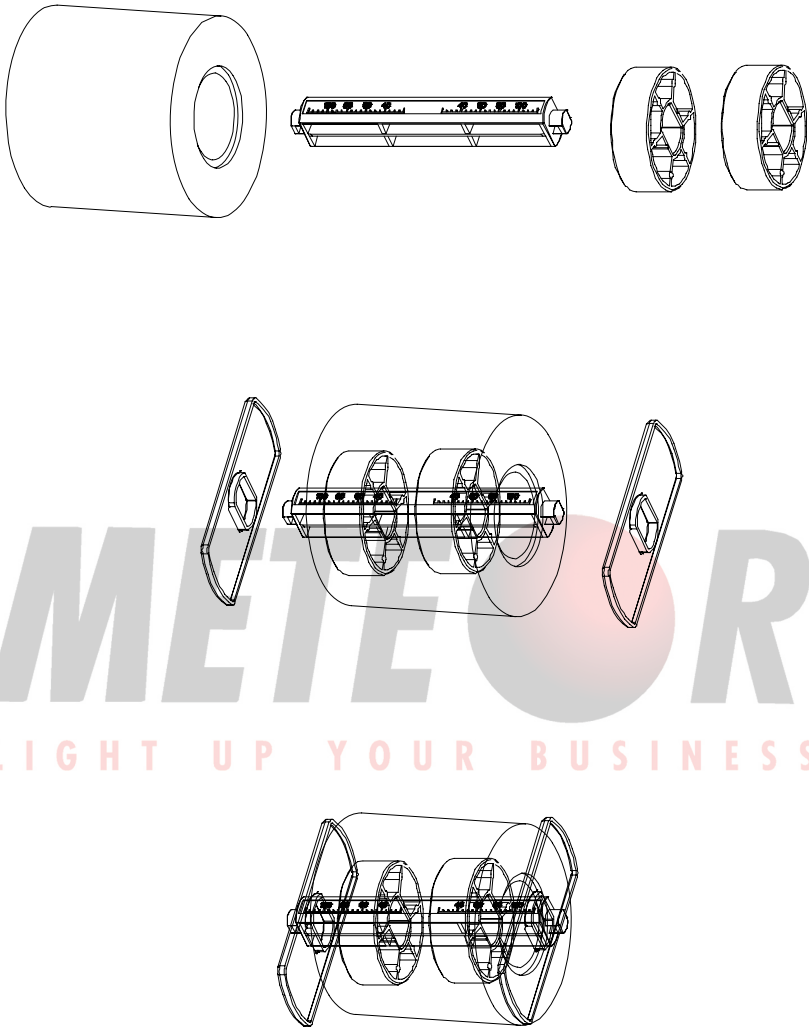


Figure 6-2

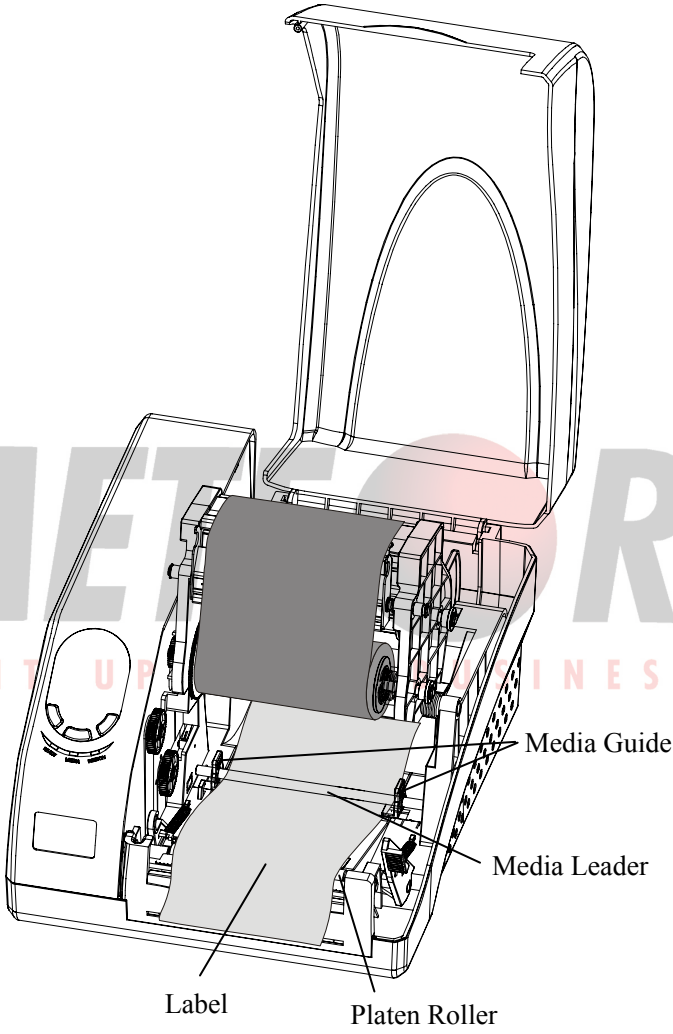


Figure 6-3

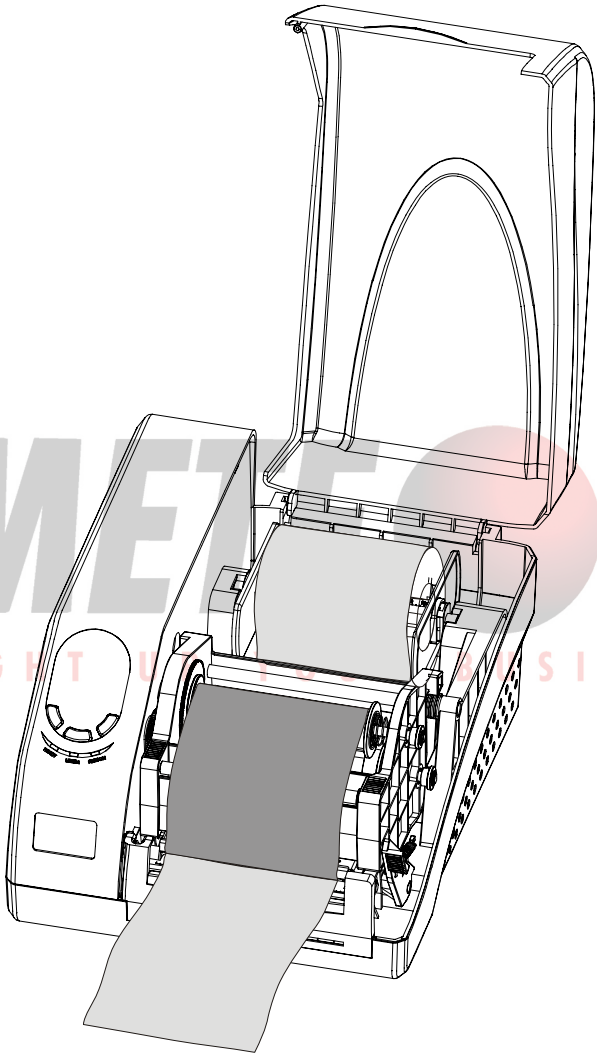


Figure 6-4

Adjusting the Position of Media Sensor

Note: Only applies to the reflective sensor.

1. Lift the top cover.
2. Push the TPH release lever to release the Printhead Module.
3. Lift the Printhead Module to expose the media sensor cover. (Figure 7-1).
4. Remove the media sensor cover and slide the media sensor to the appropriate position (refer to Figure 7-3, Figure 7-4 and Figure 7-5).
5. Replace the media sensor cover.

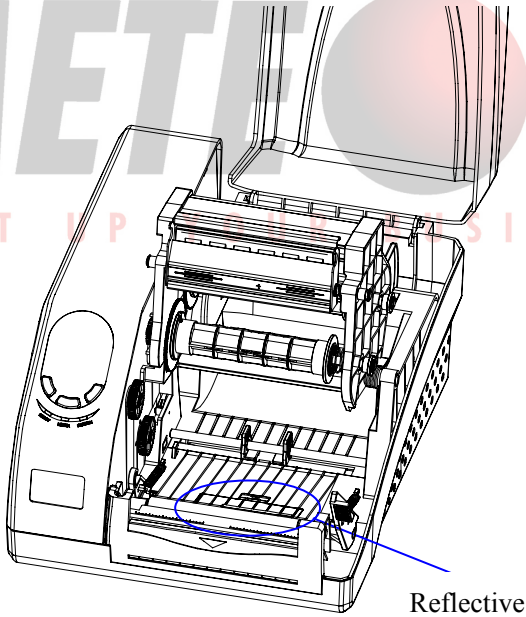


Figure 7-1

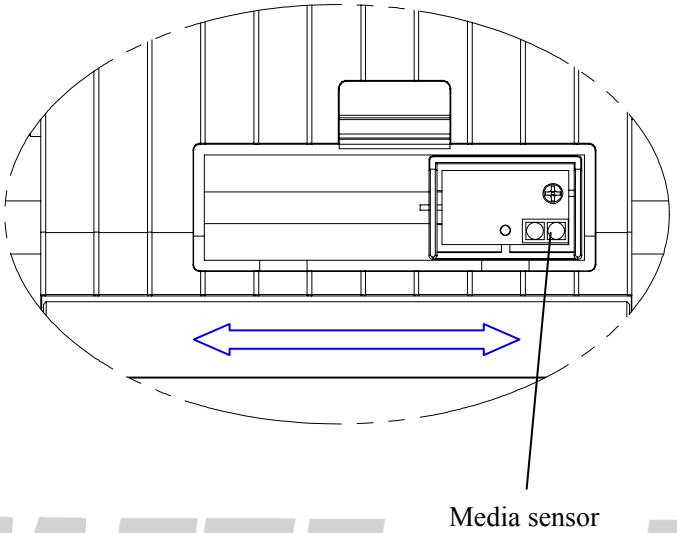


Figure 7-2

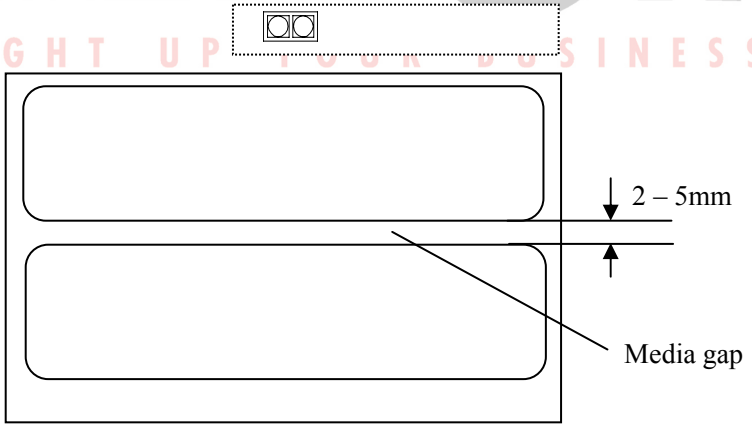


Figure 7-3

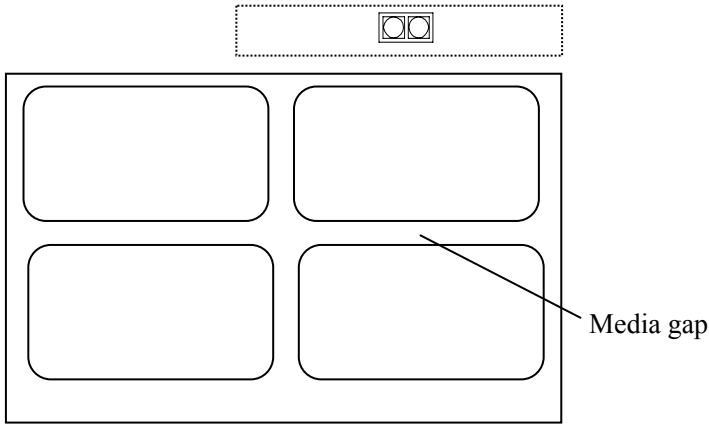


Figure 7-4

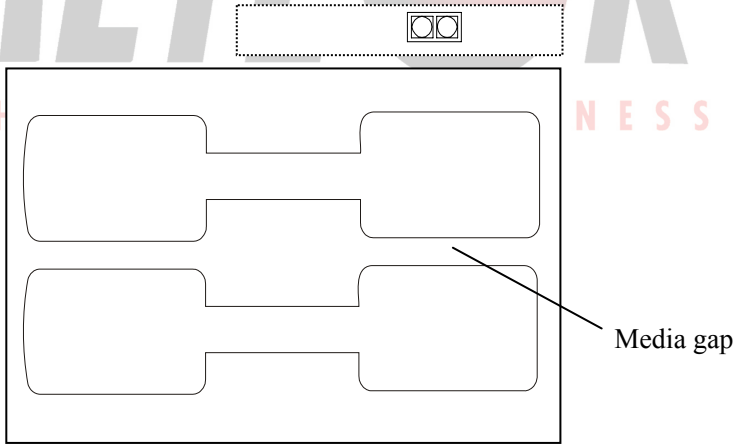


Figure 7-5

Operation Basics

Power Switch

The power switch is on the back panel of the printer. The symbols on the switch are defined as follows:

— —— ON
○ —— OFF

The Front Panel

The Front Panel of the printer consists of:
- Three Indicator Lamps: MEDIA, READY and RIBBON
- Three multi function buttons: PAUSE, FEED and CANCEL

Indicator Lamps

The three lamps indicate the status of the printer (please refer to Chapter 4 for error indications)

READY	- **Solid:** Indicates the printer is in the normal state; - **Blinking:** Indicates the printer is in the 'PAUSE' state.
MEDIA	- **Solid:** Indicates the printer is in the normal state; - **Blinking simultaneously with READY:** Running out of media;
RIBBON	- **Solid:** Indicates thermal transfer printing; - **Off:** Direct thermal printing (no ribbon installed);

- **Blinking simultaneously with READY:** Running out of ribbon.

Buttons

The three buttons have different functions based on the mode of the operation is performed.

Mode	**Basic Functions**	**Advanced Functions** (see Advanced Functions below)
Feed/Calibration	Feed one label	Media Sensor Calibration
Pause/Self Test	- Press once to pause current print job - Press a second time to resume printing	Self-test: The Printer performs a self-test and prints out a configuration report
Cancel/■►Reset	- Cancel current batch of labels - Forces the printer to continue working after an error has been corrected	Reset: Resets the printer to Factory Default Settings

LCD Display

A 2 line graphic LCD display is affixed to the front panel (For MatisseSA and Matisse PlusSA only). Data in the form of characters, letters and numbers are shown on the LCD display. Please see below "LCD Panel Operation".

Advanced Functions

Media Sensor Calibration

It is necessary to accomplish Media Sensor Calibration after a new roll of media has been loaded.

1. Press and hold the Feed/Calibration button for about 4 seconds.
2. The printer will feed approximately 200mm of media;
3. The three indicators stop blinking and remain lit, the printer is back to a normal state.

Self Test

1. Press and hold the Pause/Self Test button for about 4 seconds;
2. The printer will print out a configuration report and the three indicators will stop blinking and remain lit. The printer is back to a normal state.
3. The following information will be printed on the self-test report:
   - Font list
   - Hardware configuration and status
   - DIP switch settings
   - Label parameters
   - Firmware version

Reset – Reset the Printer to the Factory Default Settings

Following the steps listed below allows you to reset the printer to the factory default settings.

1. Press and hold the Cancel/▶Reset button for 4 seconds, the three lamps will blink simultaneously (the printer will return to normal state automatically if no operations are performed within 4 seconds);
2. Release and press the Cancel/▶Reset button again;
3. The three indicators stop blinking and remain lit. The printer is now in

its normal state.

The following parameters have automatically been reset:

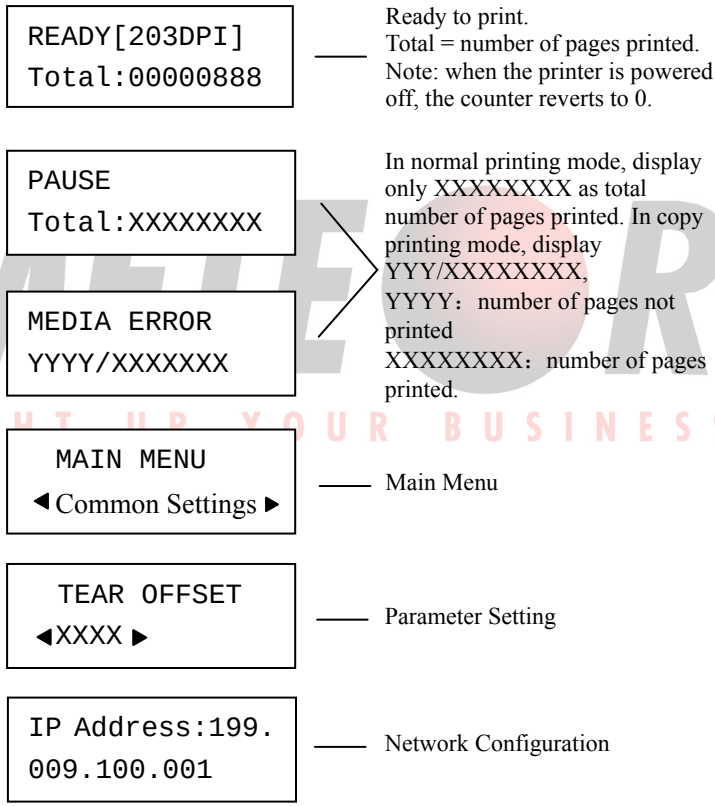
- Label
- Print darkness
- Speed
- Others

Note: ***The printed label count and printed length may not be reset.***

LCD Panel Operation

Only the two models Matisse StandAlone and Matisse Plus StandAlone have an LCD display. LCD can display printer status, printed label quantity, error messages, and can also assist in configuring the printer.

Examples of LCD display



2. Button functions

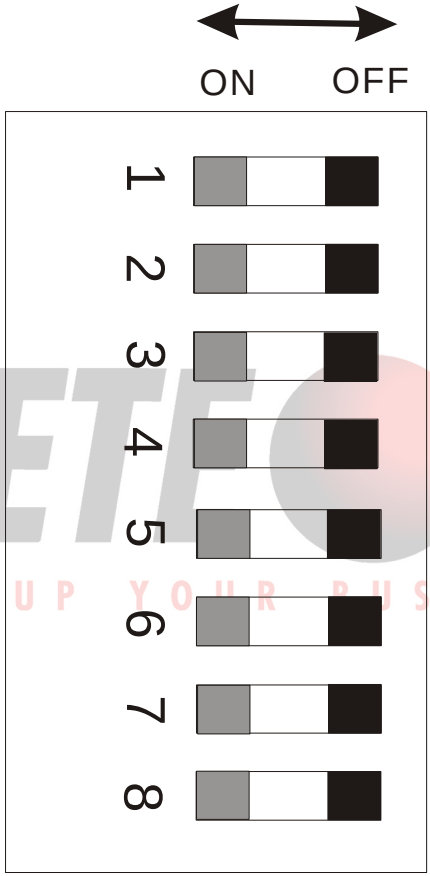
BUTTON	FUNCTION	DESCRIPTION
PAUSE + FEED	Entering the Main Menu	Press and release PAUSE, then press and hold FEED for 4 seconds
PAUSE (◀)	Item/Parameter Selection	Descending Item/Parameter selection
CANCEL (▶)	Item/Parameter Selection	Increasing Item/Parameter selection
FEED (↵)	Confirmation	Confirm selection

3. Items to be set and operating guide

MAIN MENU	SUB MENU	DESCRIPTION
Common Settings	Darkness	When set at '0', the printer will accept the default setting or command setting, if not, the printer will not accept the default setting or command setting.
	Speed	
	Return	Return to main menu.
Offset settings	Tear Offset	The increment for the G-2108D is 0.125mm, G-3106D 0.085mm.
	Positioning Offset	
	Cutting Offset	
	Peeling Offset	
	Return	Return to main menu.
Network Configuration	IP Address	The range of XXX is 0-255, press PAUSE(◀)to decrease, CANCEL(▶) to increase, FEED(↵)to move to next XXX. Upon completion, pressing FEED(↵)will proceed to the "Save/Cancel" screen.
	Port	
	Subnet Mask	
	Gateway	
	Return	Return to main menu.
Language Selection	Chinese	
	English	
	Return	Return to main menu.
Clear	Settings	Clears only those settings accomplished through the front panel.
	Graphics	To View, or Del All, or Del 1 by 1.
	Return	Return to main menu.
Stand Alone Printing*	Execute	Execute stored forms.
	Delete All	Delete all stored forms.
	Delete 1 by 1	Delete selected stored form.
	Return	Return to main menu.
Exit		Exit

* *Requires a PS/2 keyboard and the downloading of the Forms.*

DIP Switch at the Back Panel



Note: Please turn off the printer before setting the DIP switches.

DIP Bit	Functions	Remarks
1	ON: Direct thermal print OFF: Thermal transfer print	Printing type settings Default: OFF
2	ON: Tear off position OFF: Edge of next label	Stop position setting Default: OFF
3	ON: Cutter is installed OFF: Cutter is not installed	Cutter settings Default: OFF
4	ON: Peeler is installed OFF: Peeler is not installed	Peeler settings Default: OFF
5	ON: Transmissive Sensor OFF: Reflective Sensor	Select Media Sensor Default: OFF
6	ON: Enable IP setting OFF: Disable IP setting	IP address setup Default: OFF
7	**8** | **7** 0 | 0 – 9600,n,8,1 0 | 1 – 19200,n,8,1 1 | 0 – 38400,n,8,1 1 | 1 – 57600,n,8,1	RS232 Serial Port baud rate setting 0: OFF, 1: ON Default: 00
8		

Windows Driver and PosLabel Software

The printer driver supports Win 7/Vista/2003/XP/2000/NT/ME/98/95 operating systems. Each Matisse printer comes with powerful bar code label design software PosLabel and operating instructions.

Note: If you need to update the driver, please remove any old versions

of the driver before continuing.

Chapter 3 Maintenance

Warning:

1. **Make sure the printer is turned OFF before performing any maintenance operations.**
2. **The printhead becomes hot while printing, be careful when performing maintenance on the printhead.**
3. **Use only the cleaning agents indicated. Meteor srl will not be responsible for damage caused by any other cleaning materials used on the printer.**
4. **Anhydrous isopropyl alcohol is a solvent containing no more than one percent water. Isopropyl alcohol is a flammable solvent; always take the proper precautions when using this solvent.**

Cleaning the Printhead

The printhead is easily damaged due to its precision construction. A printhead damaged by misuse is not covered under the terms of the warranty. To ensure longevity of the printhead, please note the following:

1. Always use proper cleaning materials and techniques to clean the printhead. Never use hard materials for scraping the printhead.
2. Always use high-quality consumables. When the TPH module is closed, pressure is placed directly on the TPH; dirt such as paper scraps, sand, dust and glue can scrape or damage the printhead. The TPH is also easily damaged by static electricity, which may be generated by poor quality ribbons.

3. After every roll of ribbon or every three rolls of media, the printhead should be cleaned with anhydrous isopropyl alcohol.
   a. Turn off the printer and open the cover.
   b. Release and lift the Printhead Module.
   c. Remove the ribbon (if applicable).
   d. Using a Cotton Swab dipped in anhydrous isopropyl alcohol, rub the Swab along the printhead.

Cleaning the Platen Roller

Debris or dirt accumulated on the platen roller should be cleaned after every three rolls of media.

a. Turn off the printer and open the cover.
b. Release and lift the Printhead Module.
c. Rotate the platen roller and clean it thoroughly with anhydrous isopropyl alcohol and a cotton swab.

Cleaning the Printer Interior

With a brush or a vacuum cleaner, as needed.

Chapter 4 Troubleshooting

Occasionally situations occur that require some troubleshooting. Possible issues and potential solutions are listed in this section. While not every situation is addressed, you may find some of these tips useful.

Error Indications

Typically, when the printer is not functioning, one or two of the three indicator lamps will begin blinking. The possible situations addressed by the status of the three indicator lamps are listed bellow.

READY and MEDIA Lamps blink simultaneously

Possible Cause	Recommended Solutions	Remarks
Cannot detect the media gap or black line	a. Check the media path b. Check the position of the media sensor c. Perform media sensor calibration	If you are using continuous media, be sure you have the correct settings in your software
Media run out	Load a roll of media	
Media jam	Clear the jam	
The Media Roll Guides are not firmly positioned against the media	Adjust the Media Roll Guides to firmly press against the media	
Media sensor error	Service media sensor	

READY and RIBBON Lamps blink simultaneously

Possible Cause	Recommend Solutions	Remarks
Run out of ribbon	Load a roll ribbon	
Ribbon jam	Clear the jam	
Ribbon Sensor error	Service Ribbon Sensor	To be serviced only by qualified personnel

Only READY Lamp blinks

Possible Cause	Recommend Solutions	Remarks
Serial I/O error	Check DIP switches for the band rate settings	
Memory overflow	Restart the printer Perform Reset	

Miscellaneous

Vertical blank lines

Continuous vertical blank lines in printout indicate a dirty or faulty printhead as shown below:

If the problem cannot be solved by cleaning the printhead, replace the printhead.

The host shows 'Printer Timeout'

1. Check if the interface cable is connected.
2. Check if the printer is turned on.

If the situation remains unsolved, please contact your reseller or our customer service engineer.

The data has been sent, but not printing

1. Verify you have chosen the correct Windows printer.
2. Reset the printer.

If the situation remains unsolved, please contact your reseller or our customer service engineer.

Print quality problems

1. Adjust Print Darkness setting.
2. Adjust Print Speed setting.
3. Clean the printhead and platen roller.
4. Make sure the correct media/ribbon is loaded.
5. Use only high-quality Media, replace if necessary.

Recovery

After the corrective action is taken press the CANCEL button to clear the alarm, the printer will get back to work automatically.

Others

Contact a qualified Service Engineer from your reseller or Postek for troubles that persist or are not covered in this section.

Appendix A: Interface Specifications

RS232 Serial

The RS232 connector on the printer is a DB9F:

Pin	Direction	Definition
1	/	/
2	Out	TX
3	In	RX
4	In	CTS
5	-	Ground
6	Out	RTS
7	In	DSR
8	Out	DTR
9	/	/

Connection with host:

Host 25S		Printer 9P	Host 9S		Printer 9P
TX 2	.....	3 RX	RX 2	.....	2 TX
RX 3	.....	2 TX	TX 3	.....	3 RX
DSR 6	.....	8 DTR	DTR 4	.....	7 DSR
DTR 20	.....	7 DSR	DSR 6	.....	8 DTR
RTS 4	.....	4 CTS	RTS 7	.....	4 CTS
CTS 5	.....	6 RTS	CTS 8	.....	6 RTS
GND 7	.....	5 GND	GND 5	.....	5 GND

Alternately you can just connect the 3 wires as follows:

Host 25S		Printer 9P	Host 9S		Printer 9P
TX 2	……	3 RX	RX 2	……	2 TX
RX 3	……	2 TX	TX 3	……	3 RX
GND 7	……	5 GND	GND 5	……	5 GND
pin 4			pin 4		
pin 5			pin 6		
pin 6			pin 7		
pin 20			pin 8		

Baud rate : 9600, 19200, 38400,57600
(Baud Rate set by DIP switches 7–8)

Data format: always 8 data bits, 1 start bit and 1 stop bit.

Parity : always non parity.

Flow control: RTS/CTS (Hardware flow control).
If you are using software or drivers under the Windows environment, the flow control must be set to “hardware”

Parallel (Centronics)

The parallel port is a standard 36-pin Centronics interface. Its pin assignments are as follows:

Pin	Direction	Definition	Pin	Direction	Definition
1	In	/STROBE	13	Out	SELECT
2	In	Data 1	14,15		NC
3	In	Data 2	16	-	Ground
4	In	Data 3	17	-	Ground
5	In	Data 4	18		NC
6	In	Data 5	19~30	-	Ground
7	In	Data 6	31		NC
8	In	Data 7	32	Out	/Fault
9	In	Data 8	33~36	-	NC
10	Out	/ACK			
11	Out	BUSY			
12	Out	PE			

Any communications port can transmit data from the host (Centronics, RS232, Ethernet, and USB). Preliminary communications settings are not required since the printer will automatically detect which port is active.

Note: Never send data from 2 ports at the same time. Data cannot be sent to more than one port simultaneously or data corruption and print errors may occur.

Appendix B: ASCII Table

	0	1	2	3	4	5	6	7
0	NUL			0	@	P	`	p
1	SOH	XON	!	1	A	Q	a	q
2	STX		“	2	B	R	b	r
3		XOFF	#	3	C	S	c	s
4			$	4	D	T	d	t
5		NAK	%	5	E	U	e	u
6	ACK		&	6	F	V	f	v
7	BEL		‘	7	G	W	g	w
8	BS		(	8	H	X	h	x
9			)	9	I	Y	i	y
A	LF		*	:	J	Z	j	z
B		ESC	+	;	K	[	k	{
C	FF		,	<	L	\	l	|
D	CR		-	=	M	]	m	}
E	SO	RS	.	>	N	^	n	~
F	SI	US	/	?	O	_	o	DEL

Remark: The € sign is included in the embedded table at DEC128 or HEX 80.

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