MSP Quick Reference Manual

MSP 9 Wire DOT Matrix Printer

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9 Wire Dot Matrix Printers

Quick Reference Manual

TVS Electronics Ltd.

34, Developed Plots, South Phase, Industrial Estate, Guindy, Chennai - 600 032. Phone: +91-44-232 5506 Fax: +91-44-232 7577

Web: www.tvs-e.com

Postage will be paid by addressee

BUSINESS REPLY CARD

TN / CH (S) - 144 Guindy Post Office, Chennai - 600 032.



TVS Flectronics I imited

Warranty Registration Card



Dear Customer,

Signature : Date :

We thank you for purchasing our product and we appreciate your intelligent choice. It is most essential to post this pre-paid installation card, duly filled in to avail warranty service. Registering your address with us, will enable you to receive special mailers on updates, discount scheme etc., whenever they are announced. Warranty service is liable for rejection. If the registration card is not posted. Hence please post it today. Do write to us for any future service support or contact our branch office or Authorised Service Centre

Please Use Block Letters

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Your Name	
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This Manual is meant for Reference only

For detailed information refer to

ELECTRONIC GUIDE

in the Software Diskette provided to you with your MSP Printer.

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Please note that it is mandatory to register your product with us. The warranty applicable for this product is likely to be rejected in case of non-registration of your product with us.

For any queries on our products and/or services, you can contact either our branch office or our authorized service provider. List of service providers is enclosed in a separate booklet.

For on-line support, please contact **Careline**, an exclusive Tele-solution desk available for any TVS customers. The contact details are:

Telephone

(91) (044) 2322511/2322399

Fax

(91) (044) 2327588

E-mail

careline@scl.sprintrpg.ems.vsnl.net.in

We wish you a happy and memorable association with your TVS product.

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Congratulations for having made the intelligent choice of buying a TVS product. This product is designed and manufactured with utmost care to give you high quality, trouble-free performance in the years to come.

Welcome to the world of TVS-E service, we at TVS-E have always been offering you innovative services and support packages that match international practices and standards. Each of these special services (Call centre, Careline and Carefax to name a few) has been devised to augur to the varying requirements of our valued customers/business partners like you.

For on-line support, please contact call centre, an exclusive Tele-solution desk available for any TVS customers. The contact details are

Telephone: (91) (044) 2322511 / 2322399

Careline

Careline is a E-mail technical support from TVS-E that will provide solutions to all your technical clarifications and respond to you.

We respond to all your queries within 24 hours of its receipt at your end.

Careline Email Id : Careline.tvs@scl.sprintrpg.ems.vsnl.net.in Careline@esa.tvse.co.in

Carefax

Carefax is an exclusive fax-on-demand service brought to you by TVS-E. This completely automated service provides you instant access to world of information on TVS-E products and services.

Fax: +91 (044) 2327588 (Please call from your telefax instrument only)



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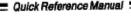
Locating the right place for your MSP Printer

Locate a flat and sturdy surface which allows the paper to flow freely.

- Choose a Power outlet (wall socket which is closest to the power socket in the printer to avoid messy routing of power cable)
- Ensure your MSP Printer is placed at a dust free location.
- Avoid exposing your printer to excessive heat.
- Always ensure your printer has a steady source of 220/240 V electricity.

What does your Carton contain?

- ▲ Printer
- Paper insertion plate
- Power Cord
- This Quick Reference Manual
- Ribbon Cartridge
- Software Diskette/CD ROM
- Parallel Interface Cable
- ▲ Dust Cover*
- * Applicable for Selected Models only.



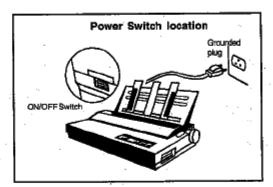


Unpacking your printer

- You will find two buffers on either sides of the Printer.
- Gently hold both the buffers and lift up.
- A Never lift the printer by holding any part of the printer.

Installing your MSP Printer

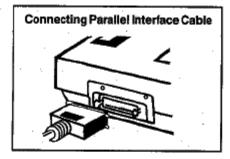
- After placing the printer on the selected location remove all the protective tapes you find.
- You have been provided with a parallel interface cable. Connect them to your computer and printer.
- Install the power cord and make sure you have provided proper earthing.



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Connecting Parallel Interface Cable Components in your MSP printer

- ▲ On the left rear side of the printer you will find the POWER SWITCH.
- On the rear side of the printer you will find TRACTOR with sprockets to fit continuous (fanfold) stationery.
- On the right side besides the interface cable insertion you will find a circular knob "PAPER FEED KNOB".
- Above the paper feed knob you will find the "PAPER SELECT LEVER". To select between friction and pin mode of paper feeding.
- "Paper Insertion Plate" has been provided with Guides which helps you to feed single sheets
- When you open top cover, on the right side you will find "Paper Thickness Lever".
- On the tractor unit to your left, you find the "PAPER PARK LEVER" where you can select between single sheet and continuous sheets.

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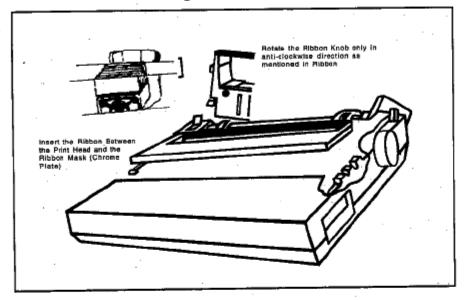
Installing the Ribbon Cartridge

- When installing the Ribbon Cartridge ensure that the printer is Powered "OFF".
- ▲ Lift the top cover, you will find there are "LIFT" labels indicated.
- Remove the packing materials provided with the Ribbon Cartridge.
- Hold the Ribbon Cartridge with the round knob which is located on the left side of the ribbon (top position).
- Gently rotate the knob on the direction indicated beside the knob.
- Place the Ribbon on the top of the print head.
- Insert the Ribbon Cartridge between the print head and chrome ribbon guide.
- After inserting the ribbon, move the print head right and left a few times to ensure that the ribbon has been installed properly.

Refer to the Figure in the next page)	`	-
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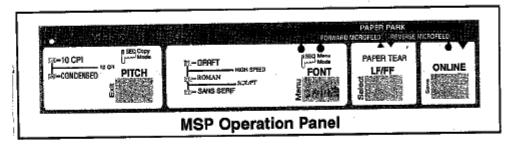
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Installing the Printer Ribbon



Control Panel Operating the control panel

- ▲ The ONLINE light is in top left corner of the control panel. When the light glows, the printer is in ONLINE, when it is OFF, the printer is in OFF LINE, and when this light blinks the printer is out of paper.
- Keep the printer in OFF LINE Mode. Use the FONT switch to scroll through the available fonts (Draft, NLQ Roman, NLQ Sans Serif, High Speed Draft and NLQ Script). The font light indicates the Font chosen.
- PITCH lights indicates the character pitch you are using. When the printer is in OFFLINE mode, by pressing the switch you can scroll through options such as 10 cpi, 12 cpi and condensed (17.1 cpi)



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Micro Line Settings

- Keep the printer in OFFLINE mode.
- A For Forward Micro Line Feed press the LF/FF switch, while keeping FONT switch pressed.
- → For Reverse Micro Line Feed press the LF/FF switch, while keeping ONLINE switch pressed.
- Press ONLINE to save the settings.

Line Feed & Form Feed (LF/FF)

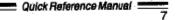
- Keep the printer in OFFLINE mode.
- ▲ Each time you press the LF/FF switch the printer advances by one line. This is the LINE FEED (LF)
- Hold the LF/FF switch for 2 seconds, the continuous form is advanced to the next top of Form, where as the single sheet gets ejected. This is the FORM FEED (FF).

Paper Park

- A Keep the printer in OFFLINE mode.
- A Hold the FONT switch and press the ONLINE switch to park continuous form.

Selecting Copy mode

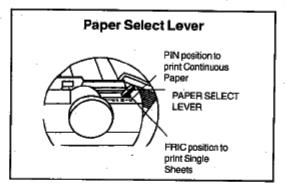
- Keep the printer in OFFLINE mode.
- A Hold the PITCH switch for 5 seconds to toggle the Copy Mode status





Selecting and Loading paper Paper Select Lever

- "FRIC" and "PIN" are the two positions.
- ▲ The "PIN" is used to load continuous paper.



Top of Form settings (TOF)

- Load the stationery. It gets loaded to the present TOF settings.

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- ▲ Top of from TOF is the first printing position on the paper.
 Normally printer leaves a gap of 0.5" inch from the top edge of the paper.
- A Press ONLINE to save the settings.

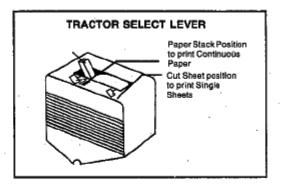
Tractor Feed Push Tractor

- ▲ The MSP printer comes with standard Push Tractor mechanism installed from the factory.
- ▲ Close the top cover.
- ▲ If the tractor is not already in push position, push the two release levers on the back of each end of the Tractor mechanism and place the mounting feet into the slots on the rear of the printer. Secure the Tractor unit and let go of the release levers; the Tractor will lock and now you can turn the paper feed knob to make sure the gears are turning properly.



Tractor Select Lever

- Space the paper supports evenly between the adjustable tractors.
- A Now load the paper from the rear side of the printer.
- A Flip the locking levers forward and adjust the Tractors to approximate paper width.
- A Place a stack of paper on a level surface behind the printer.
- Using LF/FF switch, advance a paper into the slot just behind the platen and past the paper-out sensor.
- Now the paper will load automatically.



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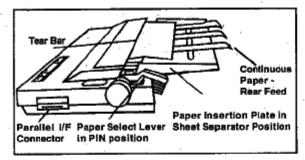
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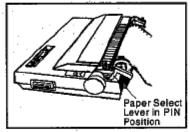




Printing Continuous Stationery in Push Tractor Mode



Inserting Continuous Paper in Push Tractor



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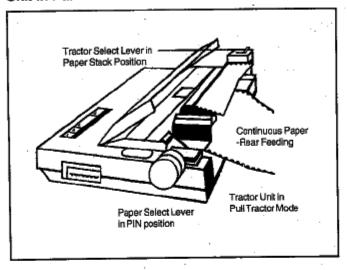
Pull Tractor

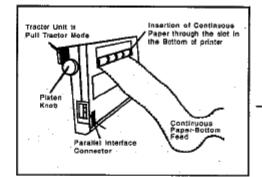
- Push in the two release levers on the back of each end of the Tractor mechanism and place the mounting feet into the slots on the top of the printer.
- Secure the Tractor unit on top of the printer and let go of the release levers The tractor will lock into place.
- A Install the paper supports and space them evenly between the adjustable tractors.
- Move the paper select lever to the FRIC position
- A Flip the locking levers forward and adjust the Tractors to the approximate paper width.
- A Place a stack of paper on a level surface behind the printer.
- A Bring the top sheet of the paper forward and insert it into the slot just behind the platen.
- * Turn the paper feed knob until the paper advances past the print head.
- Move the paper select lever to the PIN position.
- Adjust the paper left or right by sliding the Tractors.
- A When the paper is positioned, lock the Tractors in place by flipping the locking levers towards the back.

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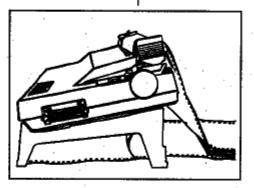
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Printing Continuous Paper with Tractor Unit in Pull Position





Paper Insertion Bottom Feed



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Bottom Feed Paper path

- Ensure the Tractor is in Pull position.
- → Turn OFF the printer power switch.
- * Remove the top cover and rest the printer on its front side as shown in the figure.
- Insert continuous forms through the slot in the bottom of the printer. Pull the forms so that 4 or 5 inches extend out of the printer.
- Position the forms in the printer as far left as possible in order to activate the printer's paper sensor.
- Set the printer right-side-up.
- Open the tractor covers, position the continuous forms on the sprockets and close the covers.
- Ensure the paper is straight. Adjust the distance between the tractor, if necessary, by unlocking the lock levers and sliding the tractors until the paper is taut. Relock the levers.
- A Move the paper select lever to the paper-stack position.
- Turn the paper feed knob until the next form is set to the correct starting-print position.
- ▲ Turn ON the printer power switch.

(Pofer to	the Figu	ire in the	previous	page)

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Printing on Single Sheet

Single-sheet feeding allows you to print on Letter head and on other types of paper that are not available in continuous format (A4&A3 sheets).

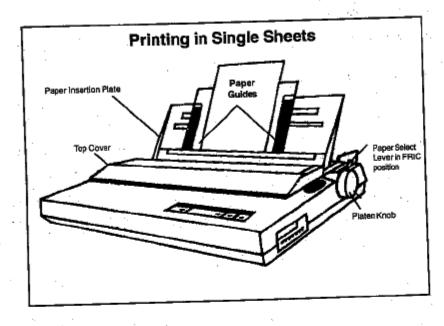
- Ensure the Tractor is in Push position. MSP printer comes with the Tractor in push position.
- If you have loaded continuous paper, switch the printer 'OFF LINE' and press the FONT/ONLINE to park the continuous paper.
- Move the paper select lever to the single-sheet position.
- Insert the single sheet into the paper guide, faced down, between the paper holders. Push the paper down gently to be sure it is all the way in.
- After a short paiese, the paper automatically feeds into the printer and stops when it reaches the correct position to print the first line.

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Set the printer on line by pressing ON LINE switch.

(Refer to the Figure in the next page)

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Helpful Hints

Use only Normal Density MSP Ribbons for MSP 9 wire Printers. Use of improper ribbon may damage the print head and invalidate the warranty.

If you are replacing a ribbon be sure the printer is **OFF** and the print head has cooled.

Carefully read the instructions for correct ribbon placements. Improper placement can cause smudged printing and may jam the ribbon.

ONLINE is the printer's normal operating mode. When the printer is ONLINE, it can receive data from your computer and print. When the printer is OFFLINE, it stops printing and responds only to control-panel instructions, such as moving the paper.

To completely cancel the print job, first cancel the job in your software application.

Then clear the data from the print buffer.

Because of advanced paper-handling features it is seldom necessary to turn the paper feed knob. More frequently turning the paper feed knob causes misalignment. Use the Control panel instead.

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Paper tear off, top-of-form adjustment and paper parking are not available when using tractor in **PULL** mode.

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Do not rotate the **PLATEN KNOB** when the printer is in power **ON** condition.



The top margin is usually set by your software. You may not need to change the top-of-form setting very often.



For serial interface connection you need to install an optional serial interface board. Please contact your nearest TVS-E dealer. Serial interface cable comes with a board.



If the printer is used heavily or in a dusty environment consult TVS-E service centre for advice on periodic cleaning and lubrication.



Product Specifications

Description	MSP 245 / MSP 1245
Print Head Number of Wires Print Head life	9 200 Million Characters
Print Speed (cps) High Speed (cps) Draft (cps) NLQ (cps)	10 12 15 300 200 240 40 48 60
Print Method Bi-directional (Text & Graphics) Logic Seeking	Standard (Menu Selectable) Standard
Print Size (Max. Char. Per line/ Char. per inch) 10 cpi Expanded Condensed Compressed-Expanded 12 cpi 12 cpi Expanded	136/10 68/5 231/17 116/8.5 163/12 82/6
Print Matrix Standard Descender Dot NLQ Mode Double Strike Mode Emphasised Mode Emphasised Double Strike mode IBM Graphic Chars.	9 x 9 8th & 9th wire 18 x 18 9 x 9 9 x 18 9 x 18 12 x 12

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Product Specifications

Description	MSP 245 / MSP 1245		
Fonts			
Draft	10, 12, 15, 17, 20		
NLQ Roman	10, 12, 17, 20, PS		
NLQ SanSerif	10, 12, 17, 20, PS		
NLQ Script	10, 12, 17, 20, PS		
Paper Handling Paper Feed Method Paper Path	Friction/Tractor (Pull/Push) Top (Cutsheets) Rear / Bottom (Continuous form)		
Copy capability	1+3 with carbon (Max. 0.3 mm)		
Ribbon Cartridge Type Life Expectancy	MSP Cartridge - 9 wire 3 Million Characters		
Interface Centronics Parallel	Standard-IEEE1284A Compliant		
RS232	Optional		
Data Buffer	5 K Bytes		
Emulation	Epson EX & IBM Pro Printer XL (MENU Selectable)		
Environment	5° to 45° C		
Voltage*	90-270 V AC		
Reliability-MTBF	6000 POH		
Physical dimension Width x depth x height Weight (Kg)	608x379x147 mm 7.0 Kg		

For Detailed Specifications - Please Refer to the ELECTRONIC GUIDE in the printer software disk.

Specifications subject to change without notice.

*MSP 1245 : Voltage -> 140 ~ 290 V AC

Product Specifications

Description	MSP 240+ / MSP 240 Classic		MSP 245+		
Print Head Number of Wires Print Head life	9 200 Mn. Chrs	9 300 Mn Strokes / wire		9 200 Mn. Chrs.	
Print Speed (cps) High Speed (cps) Draft (cps) NLO (cps)	10 12 250 300 50 60	375	10 - 240 50	12 288 60	15 360
Print Size (Max.Char.Per line/ Char.per inch) 10 cpi Expanded Condensed Compressed & Expanded 12 cpi 12 cpi Expanded	80/10 40/5 136/17 68/8.5 96/12 48/6		136/10 68/5 231/17 116/8.5 163/12 82/6		
Print Matrix Standard Descender Dot NLO Mode Double Strike Mode Emphasised Mode Emphasised Double Strike Mode Emphasised Double Strike Mode IBM Graphic Chars.	9x9 8th & 9th wire 18X18 9x9 9x18 9x18 12x12		9x9 8th & 9th wire 18X18 9x9 9x18 9x18 12x12		



Product Specifications

Description	MSP 240 + / MSP 240 Classic MSP 245+			
Fonts				
Draft	-	10, 12,	15, 17, 20	
NLQ Roman	1	10, 12,	17, 20, PS	
NLQ Sanserif		10, 12,	17, 20, PS	
NLQ Script		10, 12,	17, 20, PS	
Barcode		3 of 9		
Paper Handling	·			
Paper Feed Method	1	Friction	/Tractor (Pul/Push)	
Paper Path	1	Top (Cu	utsheets)	
		Rear/B	ottom (Continuous form)	
Copy capability		1+3 wi	th carbon (Max 0.3mm)	
Ribbon Cartridge				
Type	MSP Type - 9 wire - 10'		MSP Type -9 wire - 15"	
Life Expectancy	3 Million Characters		3 Million Characters	
Interface .	Centronics Parallel	Centronics Parallel Standard - IEEE1284A Compliant		
R\$232	Optional	Sidifud	Optional	
Data Buffer	13 K Bytes	:	13 K Bytes	
Emulation	10 K Dytes	Epson EX &		
Lilidiadoli	IBM Pr	IBM Pro Printer XL (MENU Selectable)		
Environment		5°C to 45°C		
Voltage		90 - 270 V AC		
Reliability-MTBF	6000 POH			
Physical dimension				
Widthxdepthxheight	433x379x147mm		608x379x147mm	
Weight (kg)	5.7 kg		7.0 kg	
For Detailed Specifications - Pl Speifications subject to change	ease Refer to the ELECTRONIC GUIDS without notice.	I in the pri	nter software disk.	
	are Driver for MSP 240+, MSP 240 Class	io, MSP 24	45+ Printers respectively	

Product Specifications

Description	MSP 255 / MSP 1255		
Print Head Number of Wires Print Head Life	9 200 Mn. Chrs.	300 N	9 An. Strokes / wire
Print Speed (cps) High Speed (cps) Draft (cps) NLQ (cps)	10 - 250 50	12 300 60	15 375 75
Print Size (Max.Char.Per line/ Char.per inch) 10 cpi Expanded Condensed Compressed & Expanded 12 cpi 12 cpi Expanded	136/1 68/5 231/1 116/8 163/1 82/6	0 7 .5	
Print Matrix Standard Descender Dot NLQ Mode Double Strike Mode Emphasised Mode Emphasised Double Strike Mode Emphasised Double Strike Mode EMPHASISED Chars.	9x9 8th & 18X18 9x9 9x18 9x18 12x12		

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Product Specifications

Proc	luct Specifications		
Description	MSP 255 / MSP 1255		
Fonts Draft NLQ Roman NLQ Sanserif NLQ Script	10, 12, 15, 17, 20 10, 12, 17, 20, PS 10, 12, 17, 20, PS 10, 12, 17, 20, PS		
Paper Handling Paper Feed Method Paper Path	Friction/Tractor (Pull/Push) Top (Cutsheets) Rear/Bottom (Continuous form)		
Copy capability	1+3 with carbon (Max 0.3mm)		
Ribbon Cartridge Type Life Expectancy	MSP Type - 9 wire - 15" 3 MillionCharacters		
Interface	Centronics Parallel Standard - IEEE1284A		
RS232	Optional		
Data Buffer	13 K Bytes		
Emulation	Epson EX & IBM Pro Printer XL (MENU Selectable)		
Environment	5°C to 45°C		
Voltage	90 - 270 V AC		
Reliability-MTBF	6000 POH		
Physical dimension Widthxdepthxheight	608x379x147mm 7.0 kg		

For Detailed Specifications - Floase Refor to the ELECTRONIC GUIDE in the printer software disk. Spellications subject to change without notice.

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A Company

TVS Electronics Limited

34, Developed Plots, South Phase, Industrial Estate, Guindy, Chennai - 600 032. India. Tel: +91-44-232 5506 Fax:+ 91-44-232 7577.

Web: www.tvs-e.com

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