TVS MSP 345

TVS MSP 345 Monochrome Dot Matrix Printer User Manual

Comprehensive instructions for setup, operation, maintenance, and troubleshooting.

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your TVS MSP 345 Monochrome Dot Matrix Printer. Please read this manual thoroughly before operating the printer and keep it for future reference.

The TVS MSP 345 is a 24-wire, 136-column dot matrix printer designed for various business printing needs, including reports, proposals, letters, statements, and journals. It features a printing speed of 400 characters per second (cps) and includes built-in parallel and USB interfaces for easy connectivity.

2. SAFETY INFORMATION

- Always place the printer on a stable, level surface.
- Ensure adequate ventilation around the printer.
- Do not expose the printer to water or excessive humidity.
- Use only the power cord supplied with the printer.
- Unplug the printer from the power outlet before cleaning or performing any maintenance.
- Keep hands clear of moving parts during operation.

3. PACKAGE CONTENTS

Verify that all items are present in the printer package:

- TVS MSP 345 Dot Matrix Printer
- Power Cord
- Ribbon Cartridge
- User Manual (this document)
- Driver CD (if applicable, or download instructions)

4. PRINTER OVERVIEW

Familiarize yourself with the main components of your TVS MSP 345 printer.

Figure 4.1: Front view of the TVS MSP 345 Dot Matrix Printer with the paper feed cover open, showing the general layout of the device. This image illustrates the printer's physical design, including the paper input tray and the main body.

Key components typically include:

- **Control Panel:** Buttons and indicators for printer status and functions.
- **Paper Feed:** Mechanism for loading continuous or cut-sheet paper.
- **Print Head:** The component responsible for striking the ribbon to form characters.
- **Ribbon Cartridge Compartment:** Area where the ink ribbon is installed.
- **Interface Ports:** Connections for USB and Parallel cables.

5. SETUP

5.1 Unpacking and Placement

1. Carefully remove the printer from its packaging.
2. Remove all packing materials, tapes, and protective films.
3. Place the printer on a sturdy, flat surface with sufficient space for paper feeding and ventilation.

5.2 Connecting the Printer

1. Connect the power cord to the printer's power input and then to a grounded electrical outlet.
2. Connect the printer to your computer using either a USB cable or a Parallel cable. The printer supports both interfaces.
3. Turn on the printer using the power switch.

5.3 Installing the Ribbon Cartridge

1. Open the printer cover to access the ribbon cartridge compartment.

2. Carefully unpack the TVS ink bank ribbon cartridge.

3. Install the ribbon cartridge according to the diagrams inside the printer or on the cartridge packaging, ensuring it is seated correctly.

4. Close the printer cover.

5.4 Loading Paper

The MSP 345 supports various paper types, including continuous forms and cut sheets (up to Letter size). Refer to the printer's paper path diagrams for specific loading instructions based on your paper type.

1. Adjust the paper guides to match the width of your paper.

2. Feed the paper into the printer's paper input slot until it is properly aligned.

3. Ensure the paper is not creased or damaged.

6. OPERATING THE PRINTER

6.1 Basic Printing

1. Ensure the printer is powered on and connected to your computer.

2. Install the printer drivers on your computer if not already done.

3. Open the document you wish to print on your computer.

4. Select the TVS MSP 345 from your printer options and initiate the print job.

5. The printer will begin printing at a speed of up to 400 characters per second.

6.2 Using Barcode Fonts

The TVS MSP 345 printer includes built-in barcode fonts. To utilize this feature, select the appropriate barcode font from your application's font list when designing your document. Ensure your software supports printing with embedded printer fonts.

6.3 Control Panel Functions

The control panel typically includes buttons for functions such as:

- **Online/Offline:** Toggles the printer's readiness to receive data.
- **Form Feed/Line Feed:** Advances paper by a full page or a single line.
- **Paper Park:** Allows for easy switching between continuous forms and cut sheets.
- **Self-Test:** Initiates a diagnostic print to check printer functionality.

Refer to the specific control panel layout on your printer for exact button functions and indicator lights.

7. MAINTENANCE

7.1 Replacing the Ribbon Cartridge

When print quality deteriorates, it's time to replace the ribbon cartridge. Use only genuine TVS ink bank ribbon cartridges for optimal performance and longevity.

1. Turn off the printer and unplug it from the power outlet.

2. Open the printer cover.

3. Carefully remove the used ribbon cartridge.

4. Install a new TVS ink bank ribbon cartridge, ensuring it clicks into place.

5. Close the printer cover and reconnect the power.

7.2 Cleaning the Printer

Regular cleaning helps maintain print quality and extends the printer's lifespan.

- **Exterior:** Wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Interior:** Use a soft brush or a vacuum cleaner with a small nozzle to remove dust and paper debris from the paper path and print head area. Ensure the printer is off and unplugged.

The TVS MSP 345 features a Selicon Self-Lubrication Mechanism, which contributes to maintenance-free operation and helps prevent carriage stuck issues, reducing the need for frequent internal lubrication.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your printer.

- **Printer Not Responding:**
  - Check power connection and ensure the printer is turned on.
  - Verify the USB or Parallel cable connection to both the printer and computer.
  - Ensure the printer is online (check control panel indicator).
  - Restart both the printer and computer.

- **Poor Print Quality:**
  - Replace the ribbon cartridge if it is old or faded.
  - Clean the print head area for any debris.
  - Ensure paper is loaded correctly and is of suitable quality.

- **Paper Jams:**
  - Turn off the printer and carefully remove any jammed paper, pulling in the direction of the paper path.
  - Ensure paper guides are correctly set for the paper width.
  - Use paper that is not creased or damaged.

- **Printer Not Recognized by Computer:**
  - Reinstall printer drivers.
  - Try a different USB or Parallel port on your computer.
  - Test with a different cable if possible.

9. SPECIFICATIONS

TVS MSP 345 Printer Specifications

Feature	Detail
Model Name	MSP 345
Printing Technology	Dot Matrix (24-wire)
Printer Output	Monochrome
Printing Speed	400 characters per second (cps)
Print Head Life	200 Million Characters
Interfaces	Standard Centronics IEEE-P1284A Parallel, USB

Feature	Detail
Ink Colour	Black
Maximum Media Size	Letter
Product Dimensions (LxWxH)	60.8 x 37.9 x 14.7 cm
Item Weight	7 kg
Special Features	Built-in barcode fonts, High input buffer, Selicon Self-Lubrication Mechanism

10. WARRANTY AND SUPPORT

The TVS MSP 345 printer comes with a **2-year warranty**, which includes the print head. This warranty is valid only upon product registration with the manufacturer.

For technical assistance, service, or warranty claims, please contact TVS customer support. Keep your purchase receipt and product serial number readily available when contacting support.

Refer to the official TVS website or the documentation included with your printer for the most current contact information and warranty terms.