

TOSHIBA

TOSHIBA Barcode Printer B-FV4D SERIES

Quick Installation Manual

Important Information to the User

In order to meet Product Safety, FCC and CE marking requirements, it is advised to use the power cord which was shipped with this product. Otherwise this cable needs to meet the following standards.

Power Cord

For this product a UL listed, detachable power cord is required. Outside the US, power cords need to meet the particular country's certification and application requirements. If a different power cord is used from that described above you might violate safety certifications which are in force in the country of use. The socket-outlet needs to be installed near the equipment and must be easily accessible.

Pull out the plug from the outlet more than once a year to clean around the prongs. Accumulating dust and dirt could cause a fire due to the heat released by electric leakage.

NOTES:

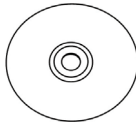
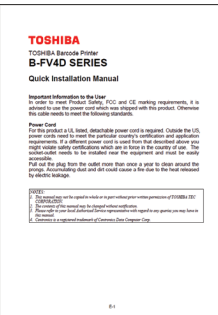
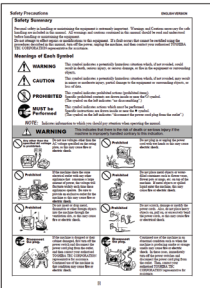
1. This manual may not be copied in whole or in part without prior written permission of TOSHIBA TEC CORPORATION.
2. The contents of this manual may be changed without notification.
3. Please refer to your local Authorized Service representative with regard to any queries you may have in this manual.
4. Centronics is a registered trademark of Centronics Data Computer Corp.

1. Unpacking

Unpack the printer.

1.1 Accessories

When unpacking the printer, please make sure all the following accessories are supplied with the printer.

CD-ROM (1 copy)	Power Adapter (1 pc.)	Quick Installation Manual (1 copy)
		
Safety Precautions (1 copy)	USB Cable (1 pc.)	
		

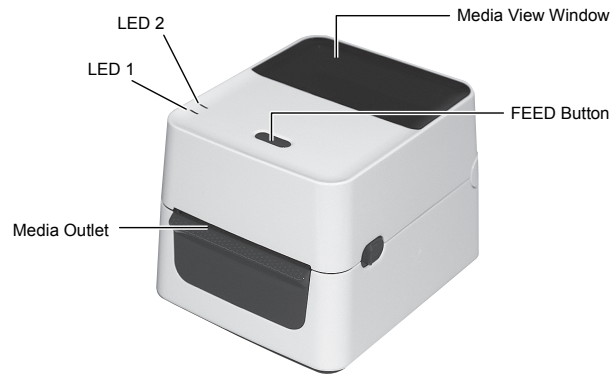
NOTES:

1. Check for damages or scratches on the printer. However, please note that TOSHIBA TEC CORPORATION shall have no liability for any damage of any kind sustained during transportation of the product.
2. Keep the carton and internal packaging for future transportation of the printer.

2. Printer Overview

2.1 Appearance

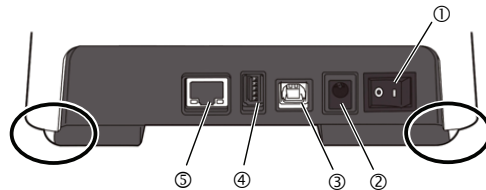
2.1.1 Front View



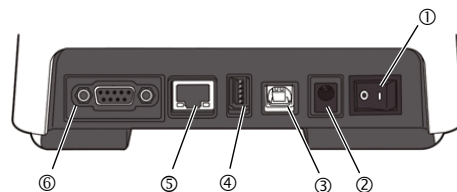
2.1.2 Rear View

The diagrams below show all the possible cable connections to the current versions of the printer.

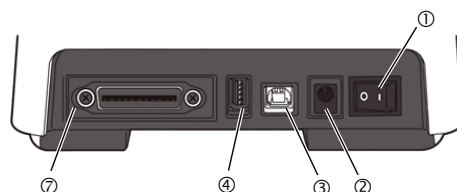
Printer having the USB and Ethernet Interfaces



Printer with a Serial Interface (RS-232C)

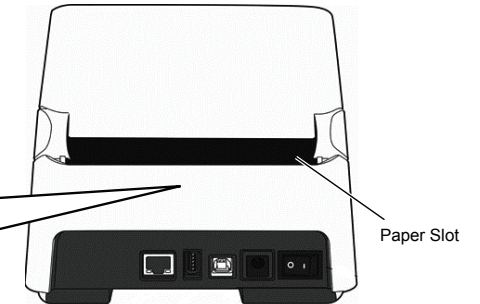


Printer with a Parallel Interface (Centronics)



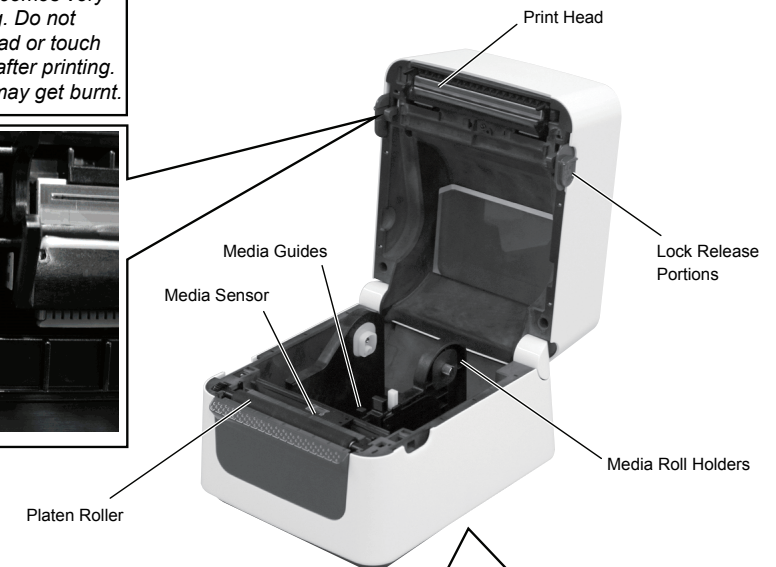
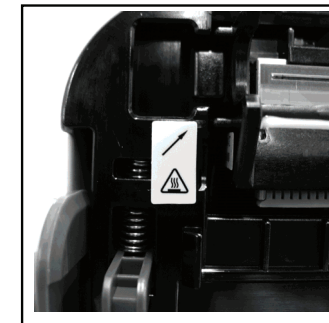
- ① Power Switch
- ② Power Jack
- ③ USB Interface for connecting a host computer
- ④ USB Interface for connecting a USB memory
- ⑤ Ethernet Interface
- ⑥ Serial Interface (RS-232C)*
- * Some models have no serial interface (RS-232C).
- ⑦ Parallel Interface (Centronics)

CAUTION!
To avoid injury, be careful not to trap your fingers in the Paper Slot while opening or closing the Top Cover.



2.1.3 Interior

WARNING!
The print head becomes very hot during printing. Do not touch the print head or touch around it directly after printing. By doing so you may get burnt.



TOSHIBA
BARCODE PRINTER
/IMPRIMANTE CODE BARRE/바코드 프린터
B-FV4D-GS12-QM-R
DC24V --- x.xx A
SERIAL No. xxxxxxxxx

ULV listed
ULV listed

NOM
NYCE
CE
EAC
FC
TOSHIBA TEC CORPORATION
MADE IN TAIWAN/FABRIQUE EN TAIWAN

3. Turning the Printer ON/OFF

3.1 Turning ON the Printer

CAUTION!

Use the power switch to turn the printer on/off. Plugging or unplugging the power cord to turn the printer on/off may cause fire, an electric shock, or damage to the printer.

NOTE:

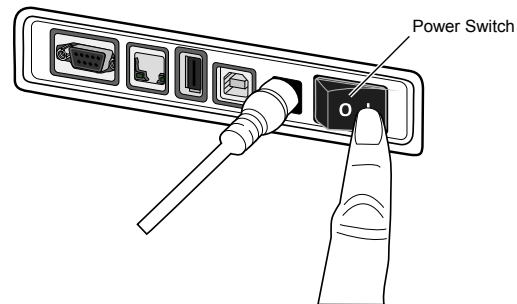
If LED 1 is illuminated in colors other than green or unlit, refer to **Section 4, TROUBLESHOOTING** of the Owner's Manual.

When the printer is connected to a host computer it is good practice to turn the printer ON before turning on the host computer and to turn OFF the host computer before turning off the printer.

NOTE:

Before turning the printer ON, it is necessary to setup the printer correctly.
For instructions on how to setup the printer, refer to **2.2 Procedure before Operation** of the Owner's Manual.

1. To turn ON the printer power, press the power switch as shown in the diagram below. Note that (|) is the power ON side of the switch.



2. Check that LED 1 stays illuminated in green.

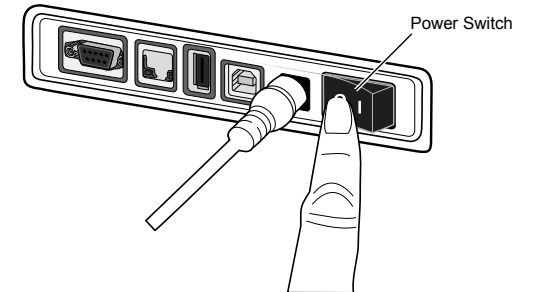
3.2 Turning OFF the Printer

CAUTION!

1. Do not turn off the printer power while the media is being printed as this may cause a paper jam or damage to the printer.
2. Do not turn off the printer power while LED 1 is flashing as this may cause damage to the data being downloaded.

1. Before turning off the printer power switch, verify the following:
LED 1 is illuminated in green, not flashing.
LED 2 is extinguished.

2. To turn OFF the printer power, press the power switch as shown in the diagram below. Note that (O) is the power OFF side of the switch.



4. Loading the Media

⚠ WARNING!

1. Do not touch any moving parts. To reduce the risk of fingers, jewellery, clothing, etc. being drawn into the mechanism, be sure to load the media **only** once the printer has completely stopped moving.
2. To avoid injury, be careful not to trap your fingers while opening or closing the Top Cover.

⚠ CAUTION!

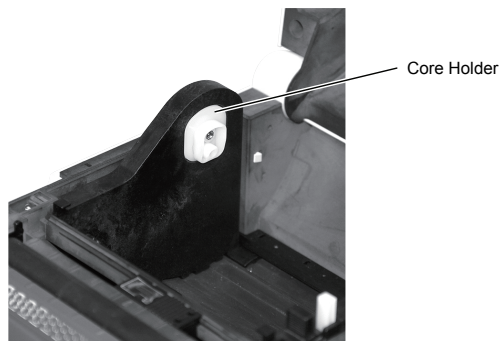
Be careful not to touch the Print Head Elements when opening the Top Cover. Doing this may cause damage to some of the dots through static discharge or other print quality problems.

This section describes how to load the media in the printer. This printer accepts label rolls, tag rolls, and fanfold paper stocks. Please use TOSHIBA TEC CORPORATION approved media.

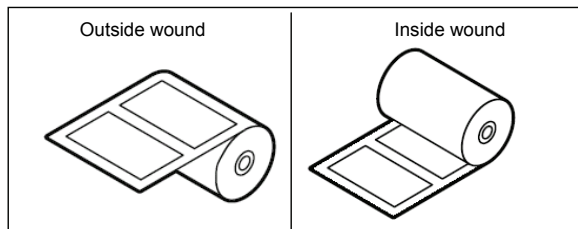
NOTES:

1. Please perform a media sensor calibration whenever you change the media type.
For instructions on how to perform a media sensor calibration, refer to **2.9.1 Media Sensor Calibration** of the Owner's Manual.
2. The size of the media which can be loaded inside the printer is as follows:
Outer roll diameter: Max. 127mm (5")
Inner core diameter: 25.4 (1") mm or 38.1 mm (1.5")
When the outer roll diameter exceeds 127 mm or the inner core diameter exceeds 38.1 mm, an optional External Media Stand is required. For details, refer to the **Installation Manual for the B-FV904-PH-QM-R External Media Stand**.

At factory shipment, the core holder size is set for 1.5" on the Media Roll Holders. If you want to use 1" core media, detach the core holders by loosening the thumb screws, reverse the core holders then re-attach them with the thumb screws to the Media Roll Holders as shown below.



3. Media rolls can be wound inside or wound outside. (See the diagram below.) Both types of media roll should be loaded so that the print side faces up.



1. Open the Top Cover while pulling the Lock Release Portions as indicated by the arrows.

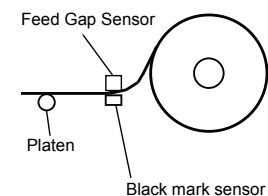


2. Open the Media Roll Holders by pressing the Holder Lock Lever and slide them outward. Place the media roll between the holders ensuring that print side is facing up, then using Holder Lock Lever slide the Media Roll Holders to clamp the media roll tightly.

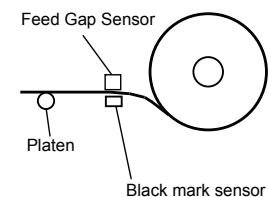


NOTE: Media path

For the outside-wound media



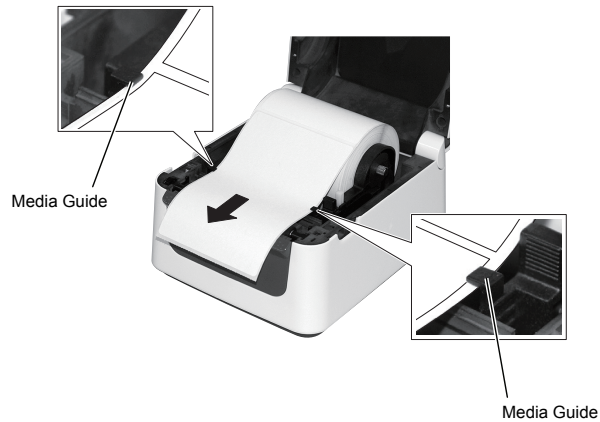
For the inside-wound media



NOTES:

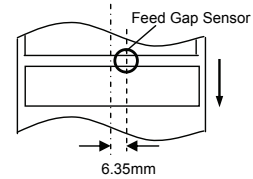
1. Make sure that the print side faces up.
2. Cut the leading edge of the media straight with scissors.

3. Pass the media through the Media Guides. Pull the media until it reaches the front of the printer.

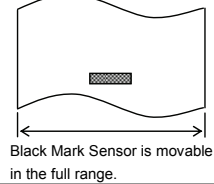


NOTES:

1. The sensor type used in the last print job is selected by default. To change the sensor type, refer to **Section 2.9.1 Media Sensor Calibration** of the Owner's Manual.
2. The Feed Gap Sensor is positioned 6.35 mm right from the media centre.



3. The Black Mark Sensor is movable over the range of the media width.

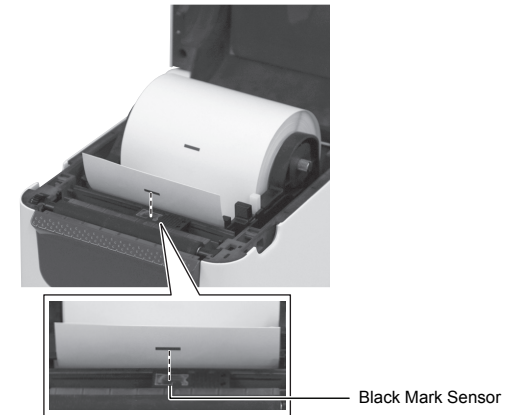


NOTE:

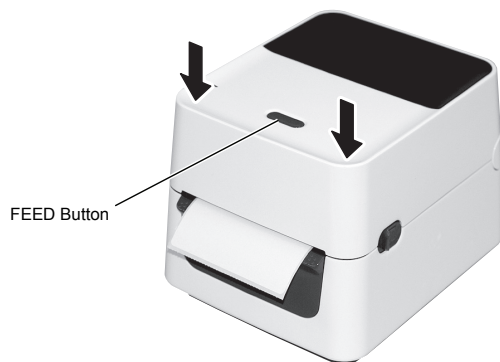
Be careful not to squeeze the media with the Media Guides. Doing so bends the media, which can cause a paper jam or feed failure.

4. Check and adjust the media sensor position and select the sensor type to be used. (Refer to the **Owner's Manual**.)

This printer has a Black Mark Sensor which can detect black marks printed on the reverse side of the media, and a Feed Gap Sensor which detects inter-label gaps. As the Feed Gap Sensor position is fixed, it is not necessary to adjust it. When using the Black Mark Sensor, align it with the centre of the black mark on the media. Failure to do this will disable the detection of printed black marks, resulting in an error.



5. Close the Top Cover gently, then press the [FEED] button to check the media feeds correctly.



⚠ CAUTION!

To separate the printed media from the printer in batch mode, be sure to tear the media off at the Media Outlet or cut the media past the Strip Plate. If you tear the media off at the Print Head by mistake, be sure to feed one label (10 mm or more) with the FEED Button prior to the next issue. Failure to do this may cause a paper jam.

There are three issue modes available for this printer.

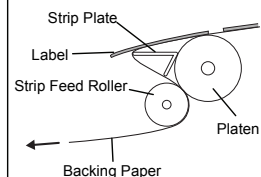
Batch mode:

In the batch mode, the media is continuously printed and fed until the number of prints specified in the issue command has been printed.



NOTES:

1. When printing labels without removing them from the backing paper, it is not necessary to pass the media through the Strip Block.
2. When the media is correctly set, the backing paper should be pinched between the Platen and the Strip Feed Roller as shown below.



⚠ CAUTION!

When opening the Peel-off Unit for loading the media, be careful not to drop metal or other foreign objects, such as a paper clip into the module, as this may cause a malfunction of the printer.

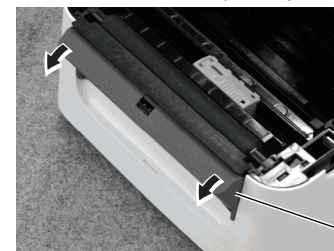
Strip mode (Option):

When printing in strip mode, labels are automatically removed from the backing paper as each label is printed.

• **How to set the media**

When issuing labels in the strip mode, set the label in the following procedure:

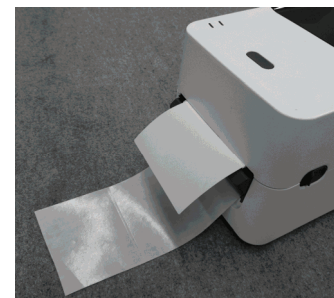
1. Load the media as described on the previous pages.
2. Open the Peel-off Unit by pulling it out.



3. Remove enough labels from the leading edge of the media to leave 20 cm of backing paper free, and insert the top edge of the backing paper into the media slot in the Peel-off Unit as shown below.



4. Close the Peel-off Unit and Top Cover.



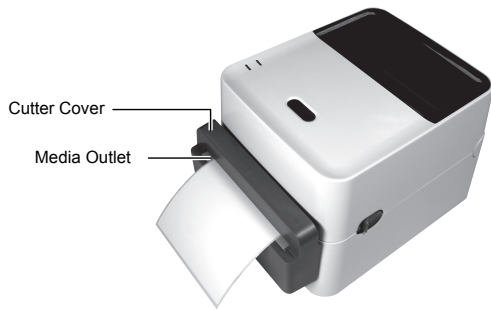
WARNING!
HAZARDOUS MOVING PARTS
KEEP FINGERS AND OTHER
BODY PARTS AWAY
The cutter is sharp, so care must
be taken not to injure yourself
when handling the cutter.

CAUTION!
1. Be sure to cut only the backing
paper of the label. Cutting
labels will cause glue to stick to
the cutter blades which may
affect the cutter quality and
shorten the cutter life.
2. Use of tag paper which
thickness exceeds the
maximum specified value may
affect the cutter life.

NOTE:
When placing fanfold paper
stock at the rear of the printer,
care should be taken of the
following points.
1. Face the print surface up.
2. The fanfold paper stock is
parallel to the fanfold paper
slot.
3. The interface and power
cables do not interfere with
the feeding of the fanfold
paper.

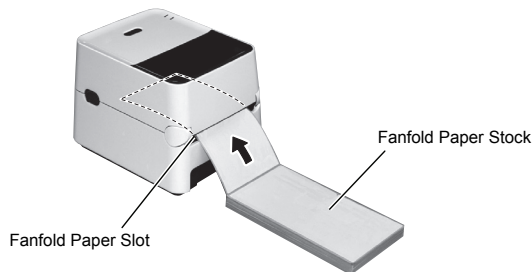
Cut mode (Option):

When a Cutter is fitted, the media can be automatically cut.
When loading the media as described on the previous pages, insert
the leading edge of the media through the Media Outlet of the Cutter
Cover while pulling the media through the printer.

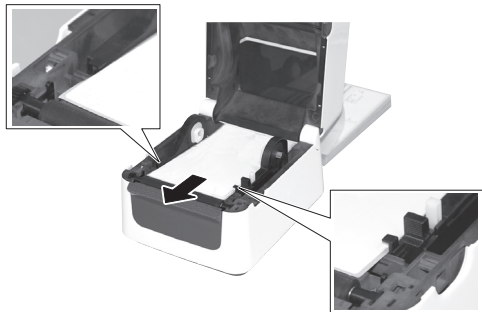


How to Load Fanfold Paper Stock

1. Place the fanfold paper stock at the rear of the printer, insert the leading edge of the paper into the Fanfold Paper Slot.



2. Refer to the previous pages to feed the fanfold paper through the printer until it extends past the media outlet.

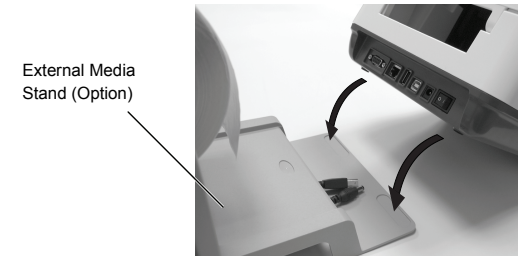


When the media roll has an outside diameter exceeding 127 mm (5") or the inner core diameter is 76.2 mm (3"), the optional External Media Stand is needed.

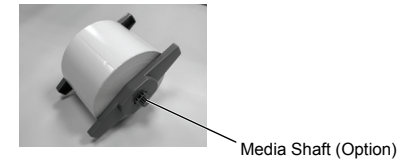
Remark:

Pictures below is the thermal transfer printing model of the B-FV4 series.

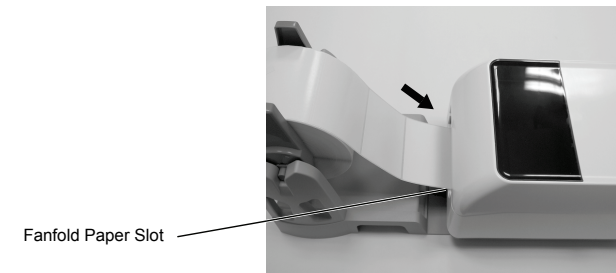
1. Fit the feet on the bottom of the printer as shown below.



2. Insert the Media Shaft into the core of the media roll.



3. Place it into the slots on the External Media Stand.
4. Pull the media forward and insert the leading edge into the Fanfold Paper Slot.



5. Refer to the previous pages to complete the media loading.

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