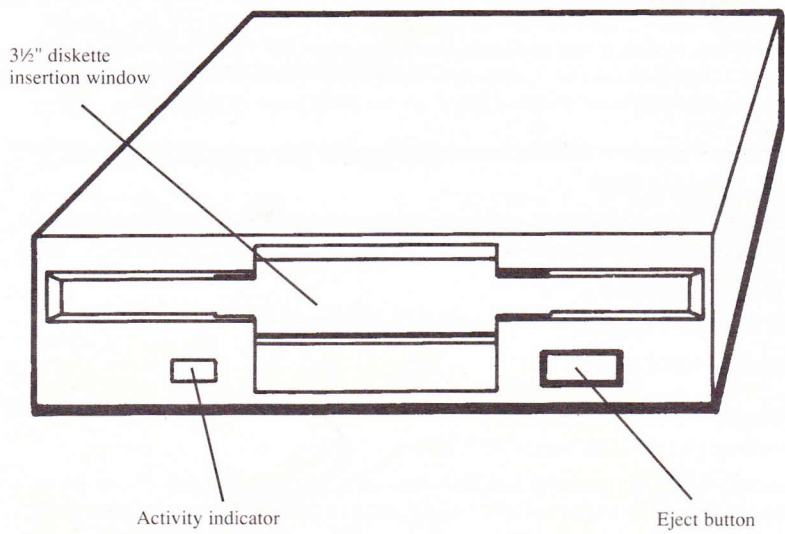


TEAC FD-235 Series
3½" 1.44 MB Floppy Disk Drive
Installation Guide



Your FD-235 package includes:

- (1) FD-235 3½" floppy disk drive
- (1) 5¼" Mounting Kit
- (1) Installation Guide

Introduction

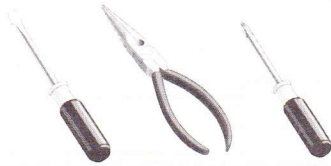
Thank you for purchasing the TEAC FD-235 Series 1.44 MB floppy disk drive. This product is intended for use in IBM® PC/XT/AT® compatible computers. Upgrading IBM/AT systems requires Bastech driver installation. It allows you to expand the usefulness of your present computer by providing a 3½" diskette compatibility.

This quality drive will provide trouble-free operation for your computer system if properly installed. PLEASE READ THE ENTIRE INSTALLATION GUIDE THOROUGHLY BEFORE YOU BEGIN THE INSTALLATION. Use a high density controller with optional BIOS to support 3½" high density drive, if this option is not available on your system BIOS. If you have questions or comments on the installation, please call TEAC Technical Support Center at the telephone number listed on the back page of this Guide.

Tools You May Need

Depending on the design of your computer, you may need the following tools to complete the installation.

- a flat blade screwdriver
- a Phillips screwdriver
- needle-nosed pliers



Handling the FD-235 Series 3½" Drive

Your FD-235 drive must be handled with care. Avoid applying undue force or abnormal strain to the spindle motor, stepping motor or printed circuit board. Avoid placing your fingers on the **printed circuit board**. It is best to hold the FD-235 by the diecast frame, as indicated by the arrows in Figure A. Never loosen the fixing screws of the printed circuit board, etc.

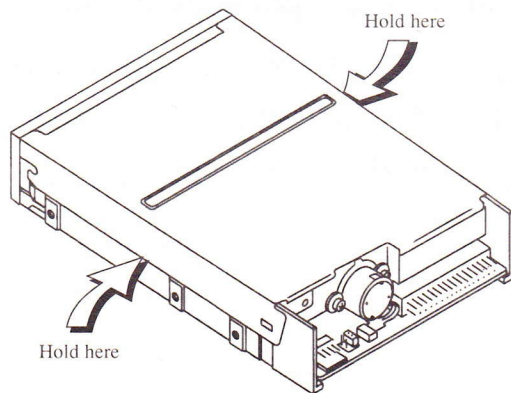


Figure A

Preparing your Personal Computer for FD-235 Floppy Drive Installation

CAUTION: TURN OFF YOUR COMPUTER AND UNPLUG IT FROM THE AC POWER SOURCE BEFORE INSTALLING THE FD-235. FAILURE TO DO SO MAY RESULT IN ELECTRIC SHOCK.

1. Unplug your computer.
2. Detach all input and output devices from your computer, such as printer, keyboard, monitor, etc.
3. Remove cover from your computer. Refer to your computer system manual for this procedure.
4. If you are replacing a current floppy, note the cables that are connected to your floppy disk drive, as these same cables will be required to install your FD-235. The floppy interface cable is the flat "ribbon" type, and the power connector consists of the 4 separate wires attached to a single connector. See Figure B.
5. Your system may also have a single ground wire attached to the floppy disk drive. Carefully remove all cables from your floppy disk drive.
6. If not installing the FD-235 floppy disk drive into a standard 3½" bay, use the enclosed 5¼" adapter kit and mounting hardware to install in a 5¼" bay.
7. Install the FD-235 Series 1.44 MB into an available drive bay.

Note: The FD-235 comes with two optional pieces of hardware to assist you with correctly installing your floppy drive. The two pieces are: a power connector adapter cable and an edge card adapter (PCBA adapter).

Installing the 5¼" Adapter Kit

Instructions for installing the 3½" floppy disk drive universal adapter kit are printed on the kit box.

Rear View of FD-235

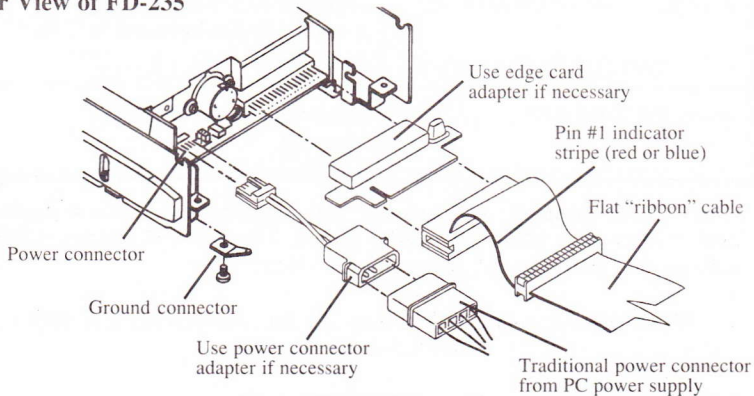


Figure B

Configuring for A: or B: drive

Use a standard IBM PC compatible cable with a twist at the end connector (Figure C) and the **factory default strap settings** (shown in Figure D) to complete installation.

- a) To configure as your A: drive, connect the FD-235 Series floppy drive to **Connector A:** on the flat "ribbon" cable. **Connector A:** is the end connector of the cable as shown in the sketch.
- b) To configure as your B: drive, connect the FD-235 Series floppy drive to **Connector B:** on the flat "ribbon" cable. **Connector B:** is the middle connector of the cable as shown in the sketch.
- c) Refer to the correct drive model and verify that jumpers are set as indicated in Figure D.
- d) Connect the ground cable if your system requires it.

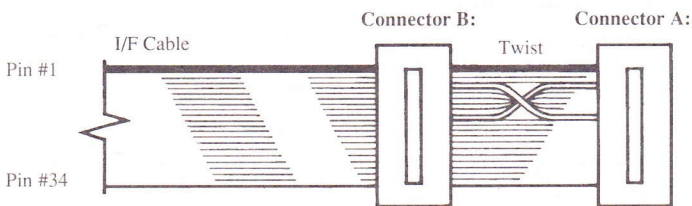


Figure C

Note: Be sure to make the correct changes to the CMOS BIOS setup after you install your FD-235.

FD-235 Jumper Matrix

- a.) The **FD-235HF-7XXX** is not equipped with any jumper. It is auto-configured.
- b.) Factory defaults for the **FD-235HF-1XXX, 5XXX, 6XXX** are shaded below.

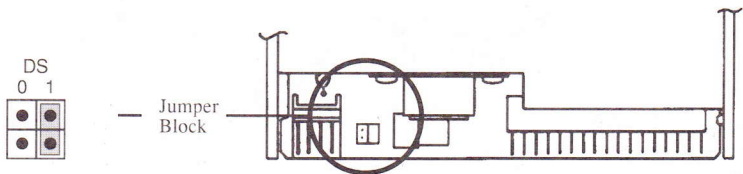


Figure D

Notes on Installing your FD-235

Slide drive into any available standard 3½" high bay, or install in an available 5¼" bay with the enclosed mounting kit.

Make sure the mounting rails are aligned into the mating slots.

Locate your system's floppy drive ribbon cable. The cable may be keyed to assist with alignment. If yours is not keyed, it should be attached so that the color strip (red or blue) faces the center of the drive (jumper block). This is Pin #1.

This is Pin #1.

1. Re-attach power connector.
2. Replace the cover.
3. Re-attach all input and output devices.
4. Plug in computer.

Attaching Mounting Rails, if Required

Your system may or may not require rails to mount the floppy drives. If rails are required, please call TEAC parts department and order rail kit for FD-235. Tel: 213-726-0303 Ext. 840 (TEAC P/N: 10000000-60). Attach rails as shown in Figure E.

The tapered end of each rail, when mounted, should point toward the back of the floppy drive.

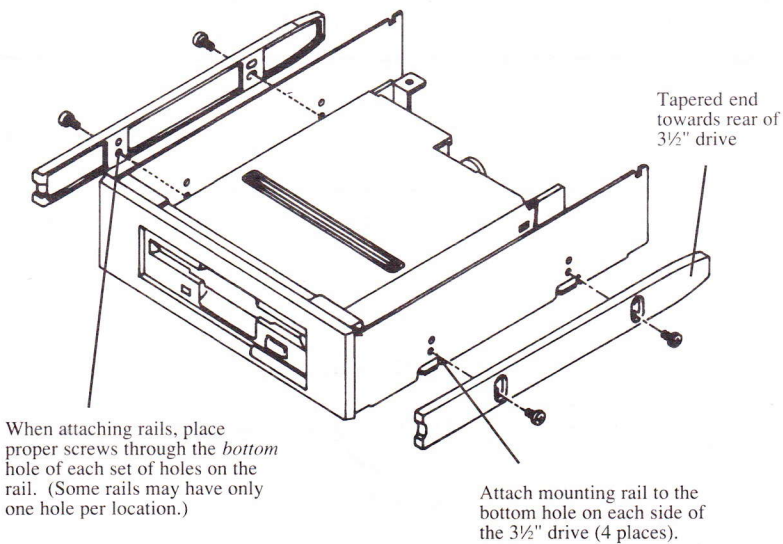


Figure E

Trouble Shooting

Symptom	Solution
Indicator light never turns on when executing READ or WRITE.	Make sure that the interface cable and power cable are properly connected and drive address strap is set correctly.
Indicator light comes on as soon as power is applied and stays on.	The ribbon cable may be reversed. Check Pin #1 orientation.
Drive type mismatch during boot.	Check CMOS setup for correct drive type. If the indicator comes on, check for head recalibration to Track 00; if it doesn't, drive may be malfunctioning.
Invalid media or Track 00 bad when formatting.	Attempted to format an HD diskette to 720K or DD diskette to 1.44 MB. Drive is not properly set in CMOS setup. Or controller card is not configured correctly. Check setup by referring to controller documentation. For IBM/AT upgrade, Bastech driver must also be installed.
The same directory is displayed for different diskettes.	Controller card is not receiving disk change signal. Check the drive for the correct disk change strap setting. Pin #34 on the ribbon cable is broken. Or disk drive is malfunctioning.
Drive not ready error reading drive X.	No diskette inserted in the drive or motor not spinning. Drive may need service.
General failure error reading drive X.	Diskette not formatted. Drive out of alignment. DSDD disk formatted to 1.44MB. HD disk formatted for 720K. Use correct disk.
Sector not found error.	Head seek error or drive out of alignment.

TEAC Tech Support: To have installation guides, specification sheets, and other product information faxed to you, 7 days a week, 24 hrs. a day, call our Fax on Demand Line at 213-727-7629.

TEAC America, Inc., 7733 Telegraph Rd., Montebello, CA 90640
213-726-0303 Ext. 860

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