

MAH3182, MAH3091 SERIES MAJ3364, MAJ3182, MAJ3091 SERIES DISK DRIVES INSTALLATION GUIDE



CARE OF YOUR FUJITSU DRIVE

Careful handling and installation of your disk drive is paramount to the longevity of the unit. Serious damage can occur to the internal mechanisms should forces outside the environmental specifications be exerted to the casing. In transportation, always use the original packing in which the drive was supplied and avoid sharp changes in temperature to minimise the risk of condensation.

INSTALLATION

1. ORIENTATION—The drive may be installed in one of five orientations, either PCA down or on any edge. Inclination from vertical or horizontal should not exceed 5°.

2. MOUNTING SCREW FIXING—When the mounting screw holes on the side of the drive are used, then only use the two pairs of outer holes. Do not use the center hole in conjunction with only one of the outer holes. The screws must not penetrate the drive by more than 4.5 millimeters. Impact caused by the electric driver must be within the device specifications.

3. COOLING—Allow space above and below the drive to provide for adequate air flow. Fan cooling is recommended. The disk enclosure temperature measured at top center, should never exceed 55°C.

Reference value: An air flow with a velocity of more than 0.5m/s is required in an environment at 40°C. (Center of DE cover $\leq 55^{\circ}\text{C}$)
An air flow with a velocity of more than 1.0m/s is required in an environment at 45°C. (Center of DE cover $\leq 55^{\circ}\text{C}$)

4. TERMINATION—A terminating resistor should be installed at both ends of the SCSI bus.

5. TERMINATION POWER—TRMPWR must be supplied to the terminating resistor for correct operation. This can be supplied from either the drive or the SCSI bus. If external termination is to be used then TRMPWR should be supplied to the SCSI bus.

6. ATTACHING THE CABLES—To avoid possible damage to the drive, make sure the direction of the connector matches.

CAUTION: In case of damage to the connector caused by wrong insertion, the warranty may be avoided.

Handling

1. Never move the disk drive while the disks are spinning. This is when the drive is powered on and also immediately after power off. Refer to the Start/Stop specification for your drive.

2. Always power the drive down before connecting or disconnecting the interface cable. The same applies to changing any of the switch or terminal settings except for the write protection switch is present on all drives and the self-diagnostics switch/terminal which is a feature of all SCSI drives.

3. Never place the drive in the vicinity of strong magnetic fields such as monitors, televisions, or loudspeakers.

4. Never use any cleaning agents or liquids on the drive.

5. Always use an antistatic mat and wrist strap when handling the drive. Hold the drive by the Base casting and never touch the components on the PCA.

6. Never remove any labels from the drive and do not deface them in any way; they are part of the disk drive design.

7. Never open the disk enclosure for any reason. There are no serviceable parts inside. This will also invalidate any warranty.

8. Always pay close attention to the mounting specifications for each drive checking for sway space and cooling where required. If the temperature difference between storage location and installation locations is more than 10°C then leave the drive in the new location for at least two hours to acclimatize. This minimises any risk of condensation forming on the drive.

9. Never drop. Handle with care.

The Drive needs NO preventative or periodic maintenance during its life time if properly used in the correct environment.

FUJITSU LIMITED
Computer Products Business Group
4-1-1 Kamikodanaka, Nakahara-ku, Kawasaki 211-8588, Kanagawa-ken, Japan

Copyright © 2000 FUJITSU LIMITED

Corporate Headquarters
6-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100, Japan
Phone: (81-3)3216-3211

C141-E105-01EN

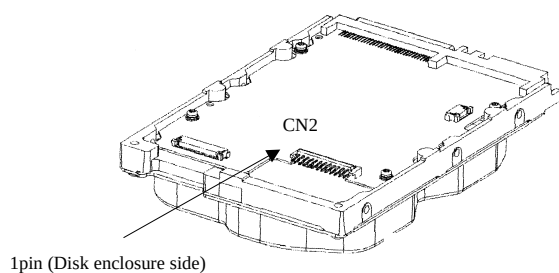
Diagram and user-selectable options

Below is a diagram of the main board for the Fujitsu MAH3182/MAH3091 series, MAJ3364/MAJ3182/MAJ3091 series of SCSI disk drives and also a summary of the user-selectable options including guidelines for installation of the drives.

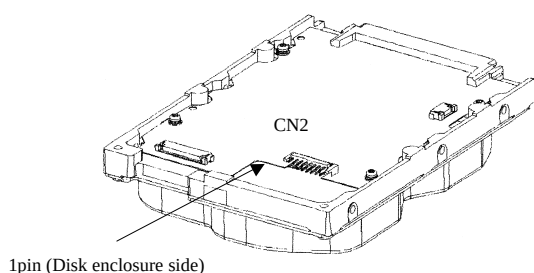
SCSI ID Setting on CN2

Pin 1-2	Pin 3-4	Pin 5-6	Pin 7-8	ID	Pin 1-2	Pin 3-4	Pin 5-6	Pin 7-8	ID
Open	Open	Open	Open	0	Open	Open	Open	Short	8
Short	Open	Open	Open	1	Short	Open	Open	Short	9
Open	Short	Open	Open	2	Open	Short	Open	Short	10
Short	Short	Open	Open	3	Short	Short	Open	Short	11
Open	Open	Short	Open	4	Open	Open	Short	Short	12
Short	Open	Short	Open	5	Short	Open	Short	Short	13
Open	Short	Short	Open	6	Open	Short	Short	Short	14
Short	Short	Short	Open	7	Short	Short	Short	Short	15

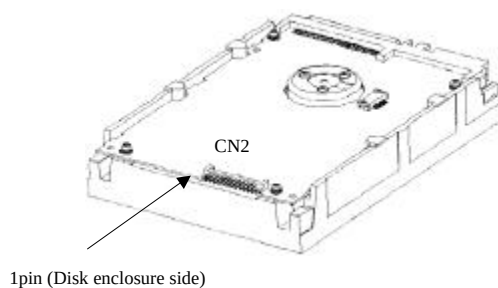
MAH series MP type



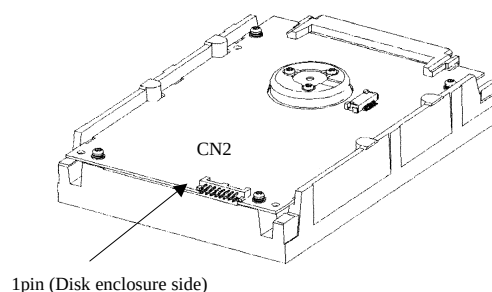
MAH series MC type



MAJ series MP type



MAJ series MC type



MP type

CN2 Terminal Setting

Pin #	Setting Item	Setting at shipment and the contents
1-2	SCSI ID 0	Short
3-4	SCSI ID 1	Short See "SCSI ID Setting" Table
5-6	SCSI ID 2	Short
7-8	SCSI ID 3	Short
9-10	Write Protect	Open No Write Protection
11-12	Remote start	Short Spin-up immediately after Power on
13-14	Force Narrow	Open Disable Narrow SCSI
15-16	Force Single Ended	Open Follows DIFFSNS signal level on SCSI BUS.
17	N.C	
19	IDD Reset (Mated 2)	Signal input
21-22	Remote LED	Signal output
23-24	Terminator power	Short Supply on

MC type

CN2 Terminal Setting

Pin #	Setting Item	Setting at shipment and the contents
1-2	SCSI ID 0	Open
3-4	SCSI ID 1	Open See "SCSI ID Setting" Table
5-6	SCSI ID 2	Open
7-8	SCSI ID 3	Open
9-10	Write Protect	Open No Write Protection
11-12	Remote start	Open Spin-up immediately after Power on
13-14	Force Narrow	Open Disable Narrow SCSI
15-16	Force Single Ended	Open Follows DIFFSNS signal level on SCSI BUS.