



Quick installation guide

Ultrastar 9ES

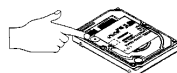
SCSI

Models: DDRS-34560
DDRS-39130



Handling precautions

1. *Do not cover the breather hole!* Covering the breather hole may result in loss of data.



2. *Do not press on the drive!* Do not apply any force to the drive during handling or installation.



3. Always handle the drive with care to prevent damage from shock, vibration, or electrostatic discharge (ESD).

4. Do not open the static-protective bag containing the drive until required. Static electricity can damage the drive.

5. Turn off and unplug your computer. Remove cover.

6. When installing the drive, touch a grounded, unpainted metal surface with the static-protective package containing the drive for at least two seconds. (This drains static electricity from the package and from your body.)

7. Handle the drive carefully by the edges. Do not touch any exposed printed circuit board.

8. Save the drive packaging material including the ESD bag in the event that the drive must be returned. Place the drive in an anti-static bag before placing it in the shipping container. The warranty will be void if the drive is not returned in IBM approved packaging.

Installation procedure

It is advisable to backup all data before proceeding with the installation.

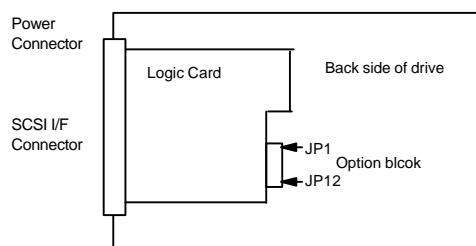
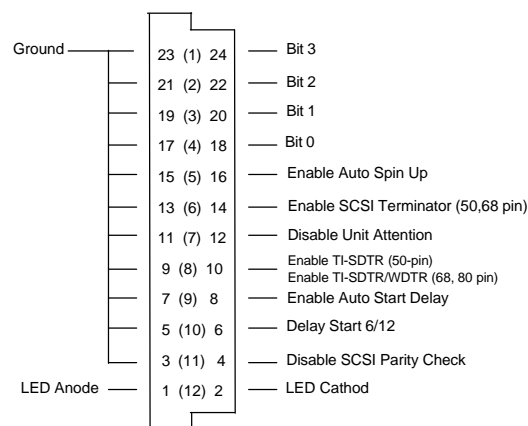
This procedure may require use of a bootable System Diskette containing FDISK.COM and FORMAT.COM.

Setting the address

1. Each drive on the SCSI bus must have a unique address. Fifty pin (narrow SCSI) devices have 8 possible addresses (0-7) with address 7 (highest priority) normally reserved for the controller. Sixty-eight and eighty pin (wide SCSI) devices have 16 possible addresses (0-15).

2. SCSI address bits 3 (68 & 80 pin only), 2, 1, and 0 of the 12-pin Option Jumper Block are used to select the SCSI device ID. The shipping default is ID 6 (bits 2 and 1).

Note: SCSI address bit 3 is reserved on the 50-pin models



Note: In the table below, "off" means a jumper is not in place and "on" means a jumper is in place.

Bit 3	Bit 2	Bit 1	Bit 0	Address
off	off	off	off	0
off	off	off	on	1
off	off	on	off	2
off	off	on	on	3
off	on	off	off	4
off	on	off	on	5
off	on	on	off	6*
off	on	on	on	7
on	off	off	off	8
on	off	off	on	9
on	off	on	off	10
on	off	on	on	11
on	on	off	off	12
on	on	off	on	13
on	on	on	off	14
on	on	on	on	15

* Shipping Default

Attaching the drive

1. Turn off the computer, unplug the power cord, and open the case.
2. The DDRS drive requires Active Termination on both ends of the SCSI cable (the SCSI controller normally provides internal termination for one end of the cable). If the DDRS drive is the only device on the SCSI cable, attach it to the end of the 68 pin cable furthest from the controller and enable termination by placing a jumper on position 6 of the Option Jumper Block. If the drive is attached to a cable that contains other devices and the new drive is not attached to the end of the cable, jumper position 6 must be open and Active Termination must be supplied by the device at the end of the cable.
3. Select the other option jumpers as required by your computer.
4. Attach the power connector.

Mounting the drive

1. Mount the drive securely, using the appropriate brackets or rails, in any axes, using four 6-32 UNC metric screws in the bottom or side mounting holes.
2. The maximum screw insertion depth for bottom mounting is 6.0 mm (.23 in) and for side mounting is 3.5 mm (.14 in).

Configuring your computer

1. Plug in the power cord and power on your computer. Consult your SCSI adapter users guide for information on configuring a new hard disk drive.
2. Follow the Operating System instructions to format and partition your drive.

If your system will not boot up after complete installation, recheck all settings. If the system still fails to boot up, remove the new drive to return the system to its original configuration and call the IBM Hard Disk Drive Technical Support Center.



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