

HARDWARE INSTALLATION

The Adaptec AHA-154XB AT-to-SCSI Host Adapter has been designed to operate as shipped in the majority of AT class computers. The host adapter's factory default settings should remain in their original positions. The AHA-154XB is shipped with the following settings:

SCSI Address	7
SCSI Parity	Enabled
Terminators	Installed
Terminator Power	Supplying
Synchronous Negot.	Disabled
DMA Channel	5
Interrupt Channel	11
AT Port Address	330h
AT BIOS Address	DC000h, Enabled
BIOS Wait State	0, Disabled
FD Controller	Enabled (AHA-1542B)
DMA Transfer Speed	5 MB/second
Auto Sense	Enable

To Perform Installation:

TURN OFF POWER TO THE SYSTEM AND EXTERNAL EQUIPMENT.

Remove the cover of your AT personal computer to expose the AT bus slots.

Locate an unused AT expansion slot in your AT system. AT type slots can be recognized by the fact that they have 2 edge connectors, one 62-pin and the other 36-pin.

Remove the corresponding system expansion slot cover.

Align the AT I/O Bus Connector on the bottom of the AHA-154X into this AT slot. Use the screw from the corresponding expansion slot cover to secure the AHA-154X's bracket to your AT system frame.

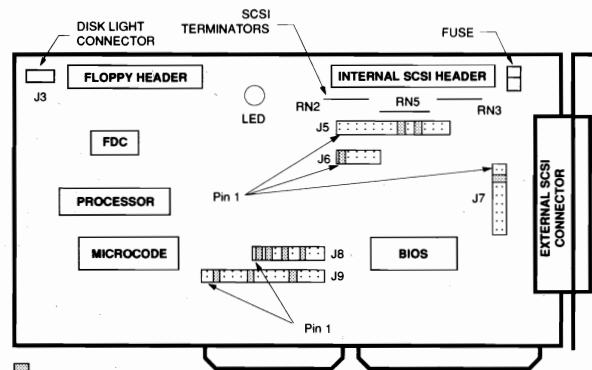
The SCSI bus must also be terminated correctly to ensure proper operation. The first and last physical SCSI devices on the SCSI cable must have terminators installed. All other SCSI devices must have terminators removed.

The SCSI factory-installed Bus terminators on the AHA-154X should be removed if and only if you attach SCSI devices to both an internal and external cable since the internal and external SCSI connectors are the same SCSI Bus.

Attach the SCSI Bus to the host adapter and the peripherals, using either the internal or external connector, making sure that pin 1 orientation is maintained throughout the bus.

Reassemble the system in the reverse order.

Jumper Configuration Reference



DEFAULT SETTINGS AND REFERENCE DIAGRAM

Five sets of jumpers are located on the board to configure user-selectable options. Jumpers installed at the factory are shown as "(x)." Those not installed are shown as "o." It should not be necessary to change the jumper settings.

J5—General Control

o 1	o 2	o 3											
			o 4	o 5	o 6								
						7	6	5	4	3	2	1	0
						SCSI Address I.D. (SCSI disks should be set for ID 0 and 1)							
			o 7	(x) 8									
						7	6	5	0				
						DMA Channel Select (see also jumper J9)							
			o 9	(x) 10	o 11								
						9	10	11	12	14	15		
						Interrupt Channel Select (see also jumper J9)							
			o 12	o 13									
						5.0	5.7	6.7	8.0				
						DMA Transfer Speed in MBytes/sec							

J6 — BIOS/Auto Sense Control

Pin	1	2	3	4	5
(X)	o	o	o	o	o

1 – BIOS Enable.
2,3,4 – Not used.
5 – Auto Sense disable.

J7 — Address Selection

o 1	Floppy Secondary Address select (AHA-1542B only)											
(x) 2	o	x	o	x	o	x						
o 3	o	o	x	x	o	o						
o 4	o	o	o	o	x	x						
							334	330	234	230	134	130
							AT I/O Port Address Select in Hexadecimal					
o 5	o	x	o	x								
o 6	o	o	x	x								
							0	100	200	300		
							BIOS Wait State Select in nanoseconds					
o 7	o	x	o	x								
o 8	o	o	x	x								
							DC000	CC000	D8000	C8000		
							BIOS Base Address Select in Hexadecimal					

J8 — Floppy Disk Selection (AHA-1542B only)

Pin	1	2	3	4	5	6	7	8
(X)	(X)	o	(X)	o	(X)	o	o	o

1 – Floppy enable
2,3 – DMA Request 2 or 3 select
4,5 – DMA ACK 2 or 3 select
6,7 – INT Request 6 or 10 select
8 – Dual Speed enable

J9 — DMA/Interrupt Selection

o 1	DMA Request 0 Select
(x) 2	DMA Request 5 Select
o 3	DMA Request 6 Select
o 4	DMA Request 7 Select
o 5	DMA ACK 0 Select
(x) 6	DMA ACK 5 Select
o 7	DMA ACK 6 Select
o 8	DMA ACK 7 Select
o 9	INT Request 9 Select
o 10	INT Request 10 Select
(x) 11	INT Request 11 Select
o 12	INT Request 12 Select
o 13	INT Request 14 Select
o 14	INT Request 15 Select