SOFTWARE INSTALLATION

Copy the files from the ASW-1210 Program diskette to the root directory of drive C using the MS-DOS COPY command. In order for the ASPI MS-DOS Manager files to be loaded whenever the system is booted, the CONFIG.SYS file must contain the following DEVICE= commands:

DEVICE = ASPI2DOS.SYS
DEVICE = ASPIDISK.SYS

Using any ASCII file editor, add the individual device driver commands to an existing CONFIG.SYS file, or follow the instructions in the MS-DOS Operations Reference Manual to create a new CONFIG.SYS file. FAILURE TO LOAD ALL THE DEVICE DRIVERS IN THE CORRECT ORDER, CAUSES THE PROGRAM TO NOT BE INSTALLED. The following command line options may be added to the device drivers in the CONFIG.SYS file. (Refer to the User's Manual for details.)

DEVICE = ASPI2DOS.SYS (/D) (/P<port address) (/L) (/V) (/W) (/X<speed>) (/N<bus on time>) (/F<bus off time>) (/I).

MS-DOS provides access to physical hard disk drives C and D. You must use the MS-DOS FDISK and **Format** programs for drives C and D. DO NOT use AFDISK with drive C and D. To use a hard disk partitioned by AFDISK as drive C or D, you must use AFDISK to delete the partitions, and then use MS-DOS **FDISK** to create new partitions.

When starting AFDISK program, it must be run from the root directory of drive C or the AFDISK directory if an AFDISK directory was created. When ready, type:

AFDISK (at the DOS prompt)

and press ENTER. The AFDISK utility is menu driven. Follow the directions on the screen to partition and format the selected SCSI devices. The AFDISK utility also includes an on-line **HELP** file which is accessed by pressing the **F1** key. The AFDISK may be exited at any time without executing by pressing the ESC key.

When the SCSI device(s) are successfully partitioned and formatted, reboot the system. This saves any changes made and allows use of the newly installed disk(s) or partitions(s).

F.C.C. CERTIFICATION

This equipment generates and uses radio frequency, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type-tested and found to comply with the limits for a Class B computing device in accordance with the specifications in "Subpart J of Part 15 of FCC Rules", which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient receiving antenna.
Relocate the computer with respect to the receiver.
Move the computer away from the receiver.
Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful.

"How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 004-000-00345-4.

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FIVE-YEAR LIMITED LIFE-TIME WARRANTY

The Seller warrants that the products to be delivered under this purchase order will be free from defects in material and workmanship under normal use and service. Seller's obligations under this Warranty are limited, at its sole option, to (i) replacing or (ii) repairing or (iii) giving credit for, any such products which shall, within five (5) years from date of shipment, be returned to the Seller's factory, transportation charges prepaid, and which are, after examination, disclosed to the Seller's satisfaction to be thus defective. THIS WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, STATUTORY, OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE SELLER'S PART, AND IT NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR THE SELLER ANY OTHER LIABILITIES IN CONNECTION WITH THE SALE OF THE SAID ARTICLES. This warranty shall not apply to any of such products which shall have been repaired or altered, except by the Seller, or which shall have been subjected to misuse, negligence, or accident. The aforementioned provisions do not extend the original warranty period of any product which has either been repaired or replaced by Seller. Prior to returning any products to Seller, Buyer must request and obtain a Return Material Authorization ("RMA").

CHANGES

The material in this guide is for information only and is subject to change without notice. Adaptec reserves the right to make changes in the product design without reservation and without notification to its users.

Details are available in the AHA-152X User's Manual. Questions can be answered via the Adaptec Bulletin Board (8 data bits, 1 stop bit, no parity, 1200 or 2400 baud) at: **(408) 945-7727.**

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AHA-1520/22 Installation Guide

HARDWARE INSTALLATION

The Adaptec AHA-152X 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-152X is shipped with the following factory default settings:

SCSI Disconnection	Enabled
SCSI Address	7
SCSI Parity	Disabled
Terminators	Installed
Terminator Power	Supplying
Synchronous Negot.	Enabled
DMA Channel	0
Interrupt Channel	11
AT Port Address	340h
AT BIOS Address	DCOOOH, Enabled
FD Controller	Enabled (AHA-1522)
Data Transfer Mode	PIO

To Perform Installation:

TURN OFF POWER TO THE SYSTEM AND EXTERNAL EQUIPMENT.

Remove the cover of your AT personal computer that exposes 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 physical edge connectors, one 62-pin and the other 36-pin, in line with one another.

Remove the corresponding system expansion slot cover by turning the screw that secures it from the top counter-clockwise.

Align the AT I/O Bus Connector on the bottom of the AHA-152X into this AT slot. Use the screw from the corresponding expansion slot cover to secure the AHA-152X's bracket to your AT system frame.

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.

If the host adapter is not the first or the last unit in the cable, remove the SCSI terminators from the board.

Reassemble the system in the reverse order.

Jumper Configuration Reference

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

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

1—Data Transfer in DMA
2—Boot Enable (Intercept INT19 call)
3,4—Message—Allow a combination of:
- •Adaptec Header (default)
- •Jumper Config. Information
- •SCSI Device Information
- •Boot Progress Report
- •Error Messages (default)

5—Synchronous Negotiation Enable
6—Disconnect/Reconnect enable for target
7,8—(Reserved)

J6 SCSI Selection

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

1,2,3—SCSI ID (Set in binary 0-7)
4,5—Interrupt Channel Select (9 thru 12)
6,7—DMA Channel Select (Coded 0,5,6,7)
8—SCSI Parity Disable

J7 Floppy Disk Selection (AHA-1522 only)

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

1—FLOPPY Enable
2—DMA REQ 2 Select
3—DMA REQ 3 Select
4—DMA ACK 2 Select
5—DMA ACK 3 Select
6—INT Request 6 Select
7—INT Request 10 Select
8—DUAL SPEED Enable

J8 DMA Selection

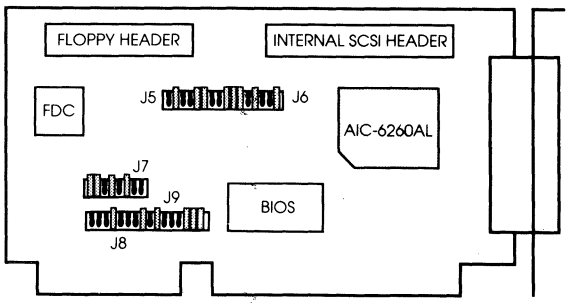
Pin	1	2	3	4	5	6	7	8
	o	o	o	(x)	o	o	o	(X)

1—DMA REQ 7 Select
2—DMA REQ 6 Select
3—DMA REQ 5 Select
4—DMA REQ 0 Select
5—DMA ACK 7 Select
6—DMA ACK 6 Select
7—DMA ACK 5 Select
8—DMA ACK 0 Select

J9 Interrupt Selection

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

1—Interrupt Request 12 Select
2—Interrupt Request 11 Select
3—Interrupt Request 10 Select
4—Interrupt Request 9 Select
5—PRIMARY/Secondary port address selection
6,7—BIOS Address (C8-, CD-, D8-, DC-000)
8—BIOS Enable



DEFAULT SETTINGS AND REFERENCE DIAGRAM

Terminators

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 AHA-152X host adapter is usually the first device on the SCSI Bus and has terminators installed at the factory.