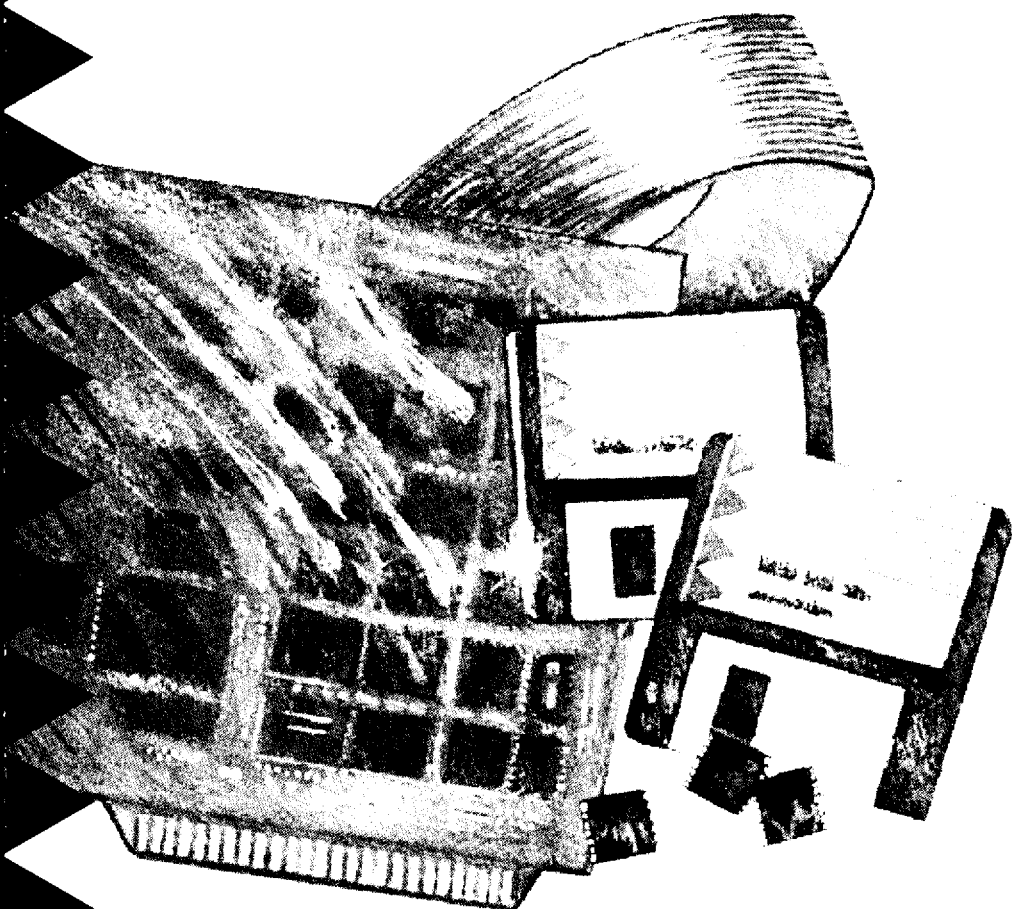# Installation Guide

AVA-1502AE

ISA-to-SCSI Host Adapter
with External SCSI Connector

adaptec

1 Overview

The AVA™-1502AE is an ISA-to-SCSI host adapter for DOS, Windows® 3.1, Windows® 95, and Windows NT™. It provides a simple, cost-effective solution for connecting a single, nonbootable external SCSI device to your PC.

The AVA-1502AE supports 2.0 MBytes/sec asynchronous and 5.0 MBytes/sec synchronous SCSI data transfer rates, with word and double word PIO (Programmed I/O) data transfers.

The following figure shows the AVA-1502AE host adapter layout, and identifies the jumper locations.
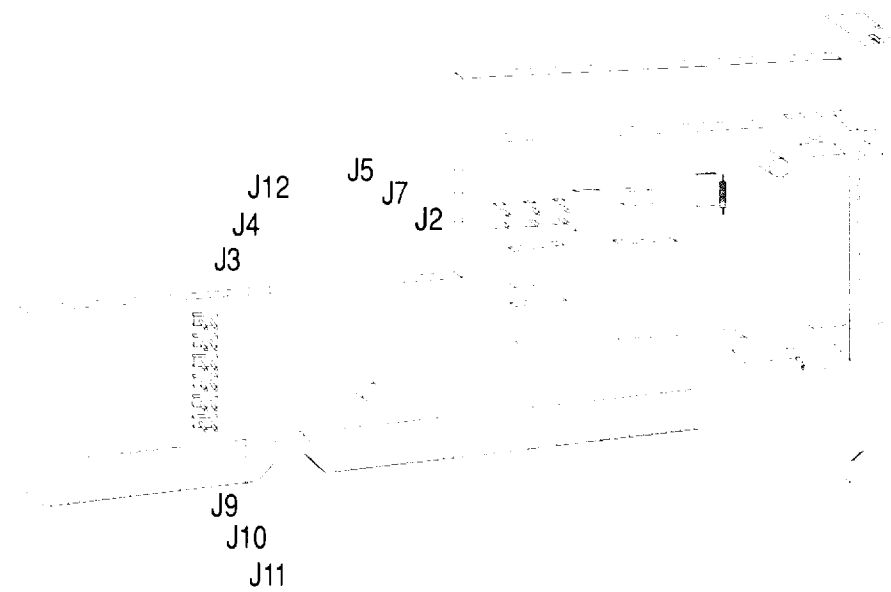
2 Default Settings

The AVA-1502AE default settings, listed in the following table, work correctly in most ISA-class PCs.

Parameter	Default Setting
SCSI Disconnection[1]	Disabled
SCSI ID	7
SCSI Parity[1]	Enabled
Termination	Auto-terminated
IRQ Channel [1]	10
I/O Port Address[1]	140h

[1] These settings are controlled by jumpers. See the table on page 2.

Jumper Selections

In most cases, you *do not* have to change the AVA-1502AE default jumper settings. However, if there is a conflict with another device, change these settings now before you install the host adapter. If you change the settings, you may also need to change driver software options (see the software documentation).

The following table lists the available jumper settings on the AVA-1502AE. Default settings are marked with an asterisk (*).

SCSI Disconnection	J2	I/O Port Address	J5	SCSI Parity	J7
Enabled	Off	140h*	On	Enabled*	On
Disabled*	On	340h	Off	Disabled	Off

IRQ Channel	J3	J4	J12	J11	J10	J9
9	On	On	Off	Off	Off	On
10*	Off	On	Off	Off	On	Off
11	On	Off	Off	On	Off	Off
12	Off	Off	On	Off	Off	Off

On = Jumper
Off = No Jumper

3 Hardware Installation

Follow these steps to install the AVA-1502AE and connect your SCSI device:

⚡ **WARNING:** Turn OFF and disconnect the power to your PC and attached devices.

1 Remove the chassis cover of your PC to gain access to the ISA expansion slots.

2 Locate an unused ISA expansion slot.

3 Remove the corresponding slot cover from the computer chassis.

4 Align and insert the host adapter into the ISA slot. Then secure it to the PC chassis with the screw from the removed slot cover.

5 Connect one end of a 25-pin external SCSI cable to the SCSI connector on the AVA-1502AE.

6 Connect the other end of the external SCSI cable to one of the connectors on the SCSI device.

⚠ **Caution:** The AVA-1502AE host adapter supports only one *single-ended* SCSI device. Do not connect a *differential SCSI* device to the host adapter because the device may become damaged. Refer to your SCSI device documentation to determine if the device is a single-ended or differential SCSI device.

7 Terminate the SCSI device. See your SCSI device documentation for instructions on how to do this. Most external SCSI devices are terminated by attaching a terminating plug to the second SCSI connector on the device.

Note: The AVA-1502AE supplies termination power on the SCSI bus.

8 Be sure the external SCSI device is set to a SCSI ID between 0 and 6 (the host adapter uses SCSI ID 7). See your SCSI device documentation if you need to change the device's ID.

9 Replace the PC chassis cover.

10 Make sure all power switches are OFF, then reconnect power cables to your PC.

11 Turn ON the power for the device, then for the PC.

12 Install driver software, as required.

Note: If you change the host adapter jumper settings after installing the driver software, you may need to reinstall or reconfigure the software. See the software documentation.

4 Troubleshooting Checklist

If you have a problem during installation, check these items first:

- Are SCSI and power cables properly connected?

- Is the SCSI device powered? Did you power it before booting your computer?

- Is the SCSI device terminated?

- Is another device set to the IRQ channel and I/O port address you specified for the adapter. If so, change these settings for the AVA-1502AE.

- Does the SCSI device support parity checking? If it does not, disable parity checking by removing jumper J5 on the host adapter, or by disabling parity checking in the driver software.