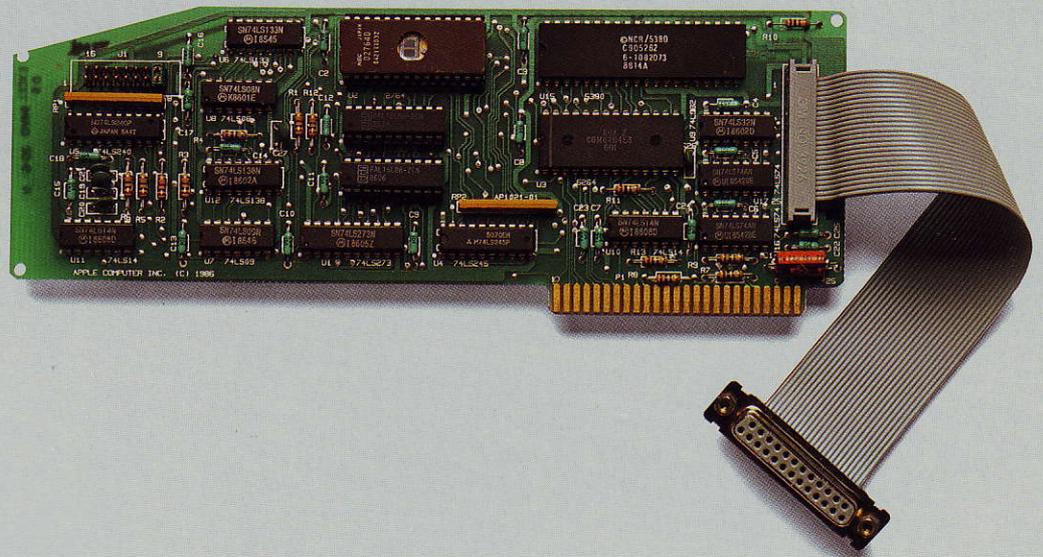




Apple® II

Apple® II SCSI* Card

**Small Computer System Interface*



For the Apple II Plus, IIe, and IIgs

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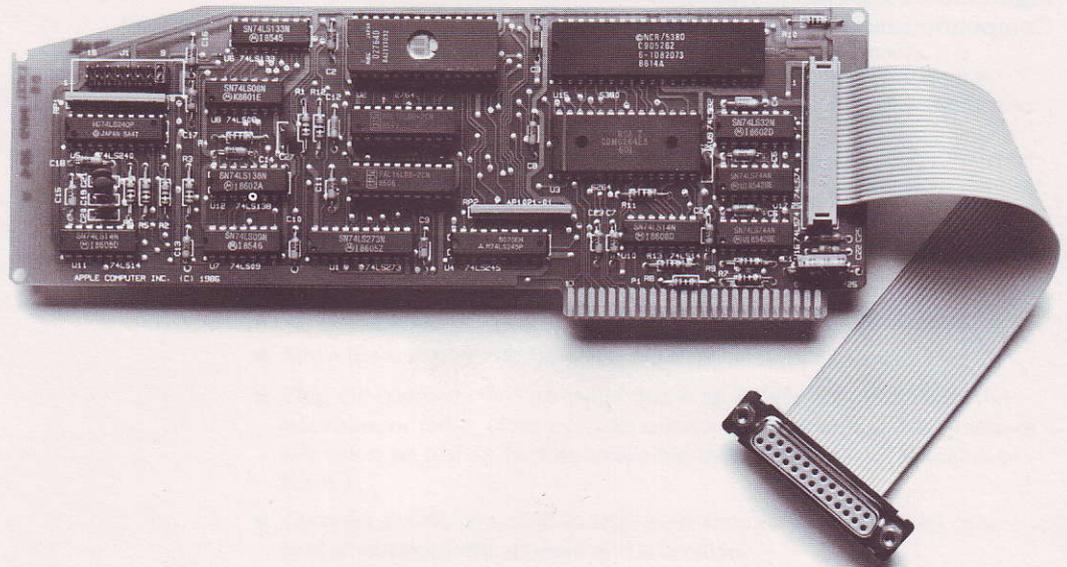
WARNING

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to Subpart J of Part 15 of FCC Rules. See instructions if interference to radio or television reception is suspected.



Apple® II

How to Install Your Apple II SCSI Card



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Radio and television interference

The equipment described in this manual generates and uses radio-frequency energy. If it is not installed and used properly—that is, in strict accordance with our instructions—it may cause interference with radio and television reception.

This equipment has been tested and complies with the limits for a Class B computing device in accordance with the specifications in Subpart J, Part 15, of FCC rules. These rules are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that the interference will not occur in a particular installation, especially if a “rabbit-ear” television antenna is used. (A rabbit-ear antenna is the telescoping-rod type usually found on television receivers.)

You can determine whether your computer is causing interference by turning it off. If the interference stops, it was probably caused by the computer or its peripheral devices. To further isolate the problem, disconnect the peripheral devices and their input/output (I/O) cables one at a time. If the interference stops, it was caused by either the peripheral device or the I/O cable. These devices usually require shielded I/O cables. For Apple peripheral devices, you can obtain the proper **shielded cable** from your dealer. For non-Apple peripheral devices, contact the manufacturer or dealer for assistance.

A *shielded cable* has a metallic wrap around the wires to reduce the potential effects of radio-frequency interference.

Important

This product was FCC-certified under test conditions that included use of shielded cables and connectors between system components. It is important that you use shielded cables and connectors to reduce the possibility of causing interference to radio, television, and other electronic devices.

If your computer does cause interference to radio or television reception, you can try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.
- Move the computer to one side or the other of the television or radio.
- Move the computer farther away from the television or radio.
- Plug the computer into an outlet that is on a different circuit than the television or radio. (That is, make certain the computer and the radio or television set are on circuits controlled by different circuit breakers or fuses.)
- Consider installing a rooftop television antenna with a coaxial cable lead-in between the antenna and television.

If necessary, consult your authorized Apple dealer or an experienced radio/television technician for additional suggestions.

Your Apple II SCSI Card

The Apple® II SCSI Card allows your Apple IIe and your Apple IIgs™ to communicate with any device that strictly follows the SCSI interface. (SCSI stands for Small Computer Standard Interface.) This interface transmits your data in parallel fashion (one bit along each of eight lines, all at once), which is much faster than traditional serial transmission (one bit at a time along one line).

Because it is a standard, the SCSI interface allows you to connect peripheral devices from many manufacturers to your Apple IIe or Apple IIgs. And you can connect as many as four SCSI peripheral devices at once. The SCSI Card, in conjunction with the SCSI Cable System and these devices, can dramatically expand the amount of storage available to your computer, while zipping data to and from the computer much faster than ever before.

What you need to set up your SCSI system

You need

- an Apple IIe or Apple IIgs, with the owner's manual, introductory disks, and ProDOS®.
- the Apple II SCSI Card, with these instructions on how to install it.
- the Apple SCSI Cable System, consisting of at least one System Cable, one Cable Terminator, and, depending on your office set up and peripheral devices, some Peripheral Cables and Cable Extenders. The System Cable comes with a guide to connecting your computer to the cables and the SCSI peripheral devices.
- at least one SCSI peripheral device.

Important

Please read the *Apple SCSI Cable System* manual before you attempt to connect any devices.

Possibilities and Limits

The Apple IIe or Apple IIgs use ProDOS, an operating system that generally expects no more than two devices will be attached to any one slot. You can put an SCSI Card into any slot except slot 3 (which has been used to add 80-column capability to your computer), and you can attach one or two peripheral devices to the card. And you can use more than one SCSI card in your computer, if you wish.

With ProDOS version 1.2 you can also connect up to four peripheral devices to one SCSI Card, if you put it into slot 5. You are "remapping" the location of two of those devices, pretending they are connected to a disk controller card in slot 2. So the first two of your devices will appear to your System Utilities program as drive 1 and drive 2 in slot 5; the second two, as drive 1 and drive 2 in slot 2. You are tricking the operating system into seeing shadows. To maintain the pretense, though, you must be careful not to put any disk drive controller card in slot 2, where the operating system thinks you have the two SCSI peripherals. (You may still use slot 2 for a card that connects with a serial printer or modem).

In summary: You may install more than one SCSI Card in your computer, but only the one in slot 5 can connect to four peripheral devices—and only with ProDOS 1.2. If you do not have that version of ProDOS, see your dealer.

In general, you should refer to any SCSI device by its volume name (for instance, Hard Disk) rather than by drive number and slot number.

A word about size: The maximum size storage area that ProDOS recognizes is 32 megabytes. If you attach a device larger than 32 megabytes, you must carve it up into parts, each of which is 32 megabytes or smaller. (This is sometimes known as *partitioning* your hard disk into *volumes*.) For instance, if you attach a 64 megabyte hard disk to your SCSI cable, you must use special software (provided by the disk manufacturer) to divide it into two volumes, of 32 megabytes each, for ProDOS to be able to use it all. Each of these volumes counts as one of the SCSI peripheral devices online. You can therefore have up to four volumes of up to 32 megabytes each attached to your SCSI Card in slot 5.

Unpacking your SCSI Card

When you take the card out of its protective bag, hold it by the edges, not the components; and be sure not to touch the gold fingers that extend from the card. The slight oil and moisture from your fingers could attract dust that would weaken the card's connection to the computer.

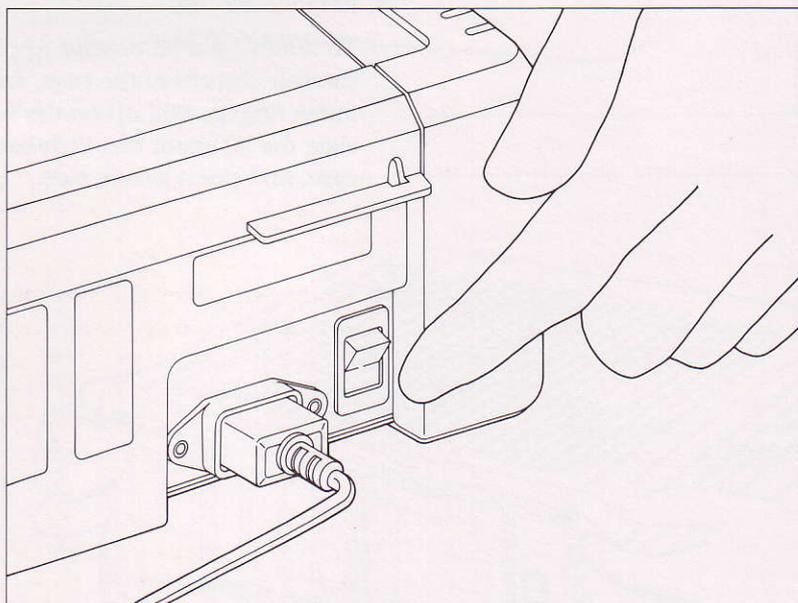
Installing your card

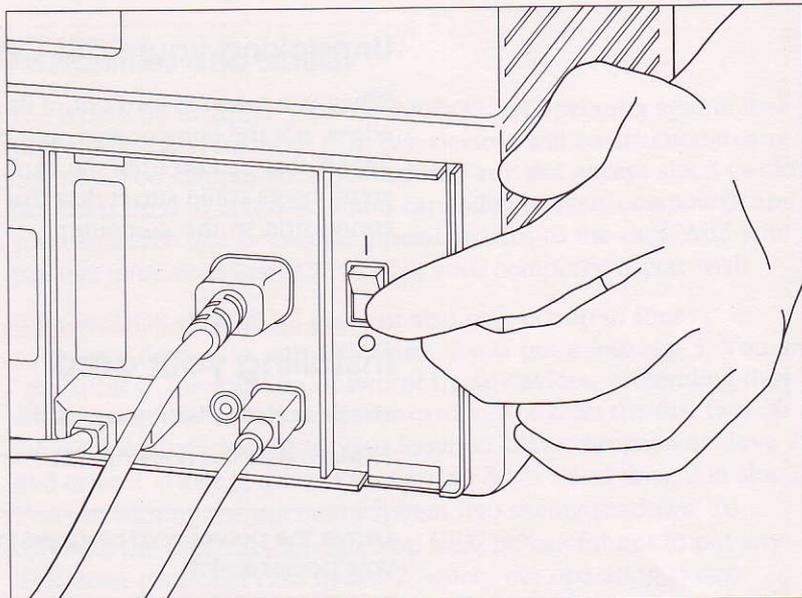
Here's how to install your card.

1. Make sure the power is off.

Warning

Leave the power cord plugged into a grounded outlet, but turn off your power switch.

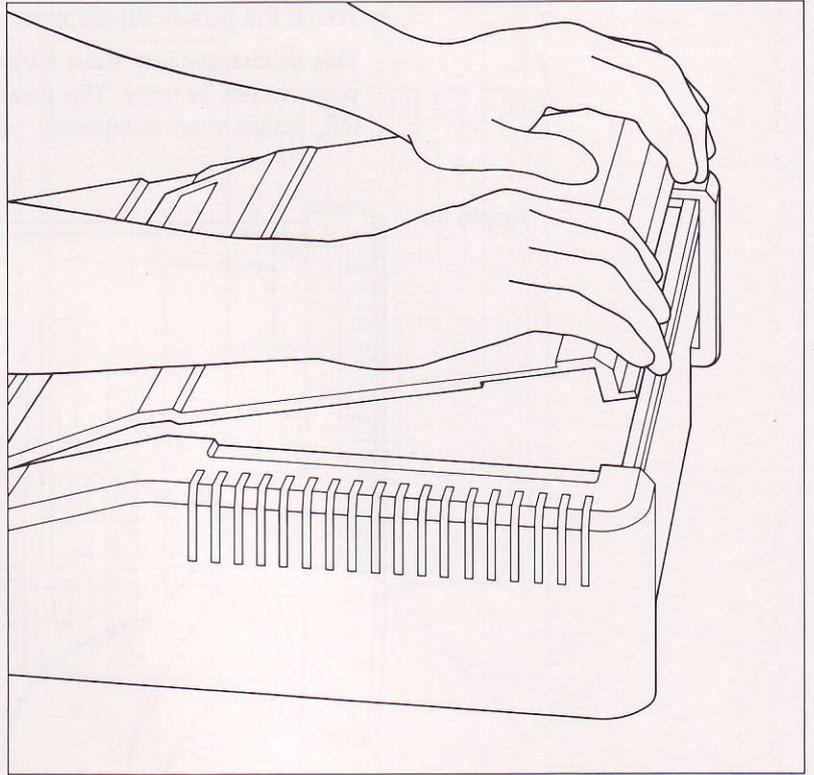




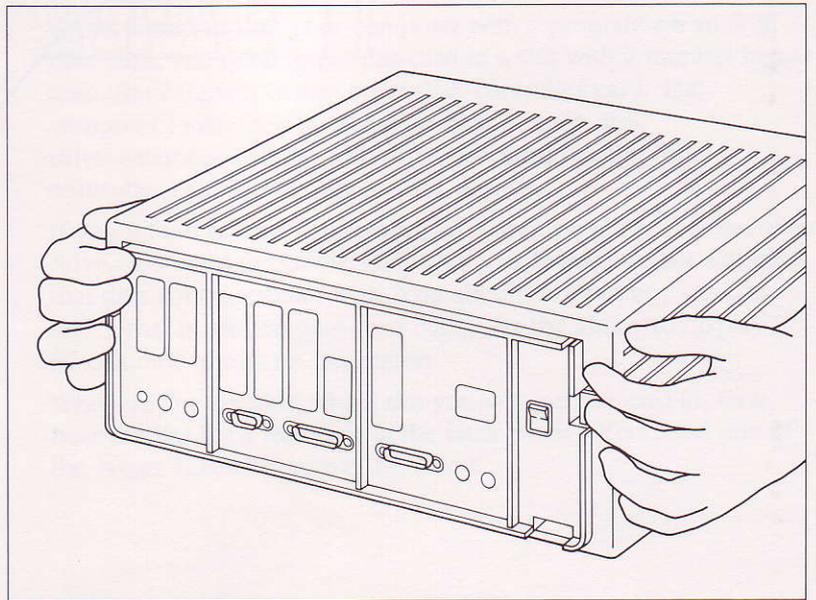
2. Remove the lid.

To remove the lid of your Apple IIGS, wrap your fingers around the rear corners of the case, and touch the lid latches with your index fingers. Pull up on the lid. When you feel the lid release, slide the lid about one inch back, then lift it all the way off the case, and put it to one side.

Apple IIe



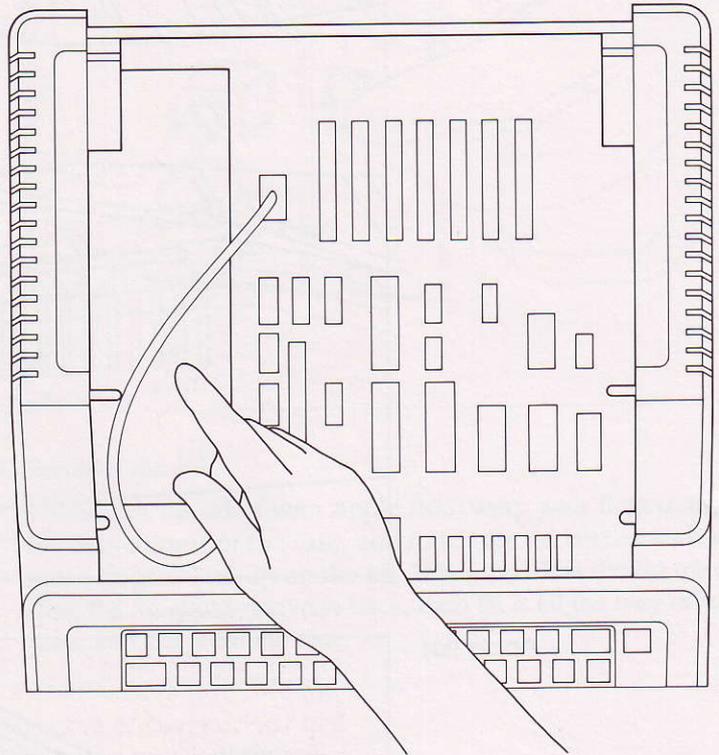
Apple IIes

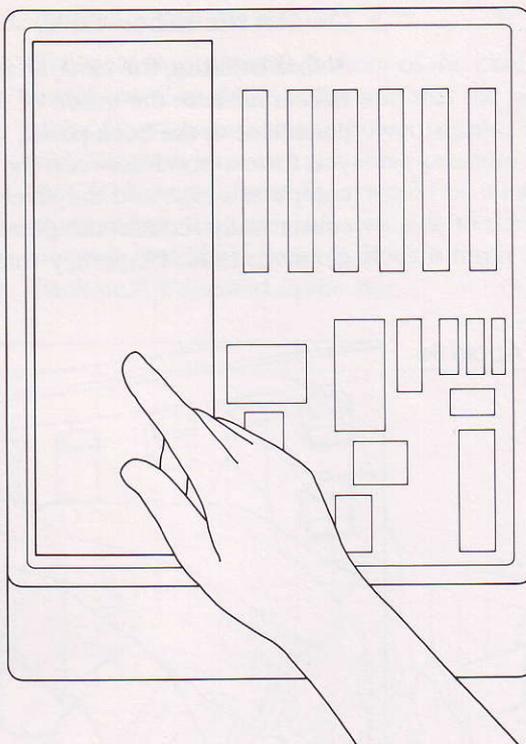


3. Touch the power supply case.

This discharges any static electricity that may have built up on your clothes or body. The power supply case is the big box on the left, inside your computer.

Apple IIe





4. Decide which slot you are going to use.

If you intend to start your computer with a program on an SCSI hard disk, you need to put this card in a slot with a number higher than you've given to any other disk controller card. The computer looks for a start-up program in each disk drive—starting with the disk drive connected to the disk controller card in the highest slot number.

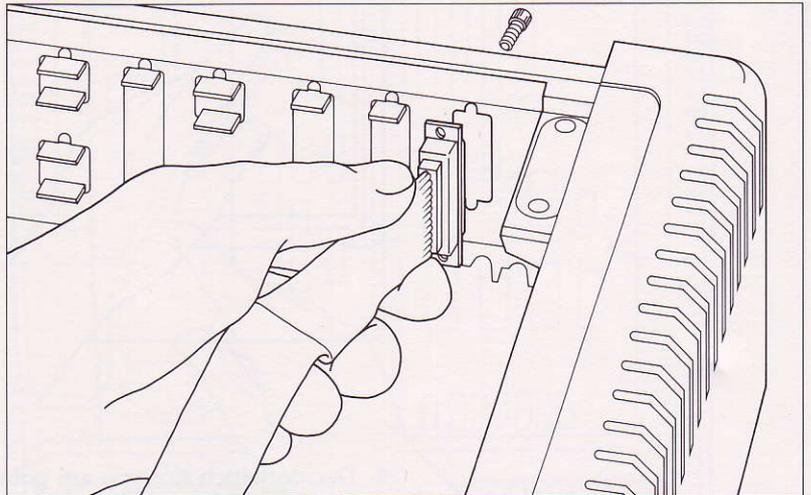
If you intend to start your computer with a program in some other drive, you need to put the SCSI Card in a lower number slot than that disk controller card is in. You should not put any card in slot 3; that is used to give your computer the ability to display 80 columns of text on the screen.

When you've decided which slot you will put the card in, look near the slot for a free hole in the back panel. (You need one of the larger holes.) Remove the insert.

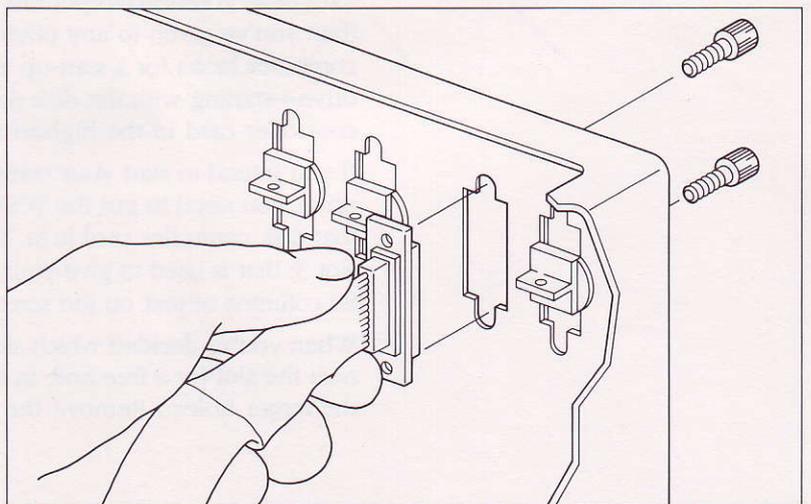
5. Connect the ribbon cable.

Before inserting the card, attach the connector at the end of the ribbon cable to the inside of the back panel. By anchoring the connector to the back panel, you reduce stress on the cable, and you form a bond between the electromagnetic shielding on the computer's case and the shielding on the cable. This substantially reduces the possibility that your computer will generate radio-frequency interference.

Apple IIe

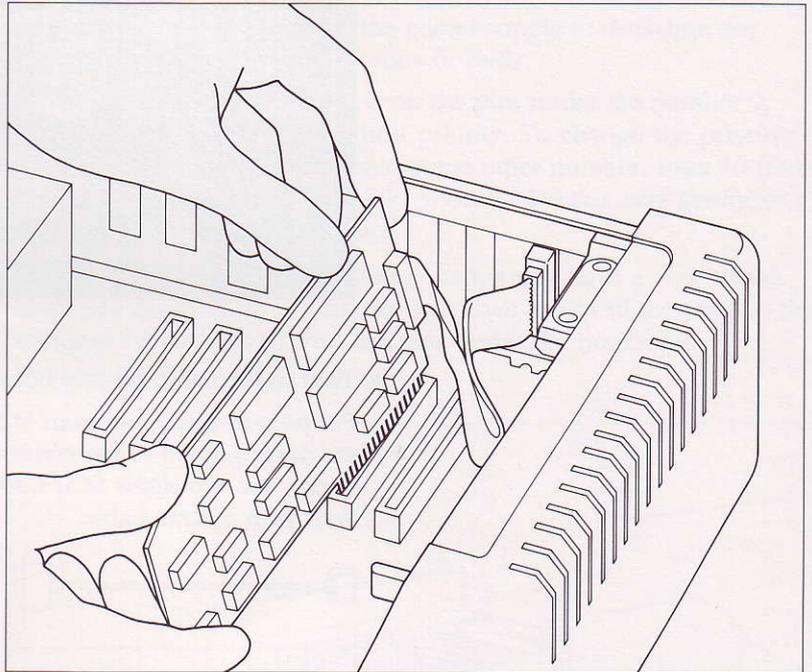


Apple IIcs



6. Put the card in the slot.

The gold fingers at the bottom of the card make the connection; avoid touching them. Make sure that the side of the card with the chips faces *away* from the power supply. Wedge the card into the slot. You will have to exert some pressure to get the card into the slot. (If it were a loose fit, it would be a loose connection.) But don't wiggle the card from one side to the other in your efforts to insert it; that could break it. Rock it firmly but gently forward and back until it's seated in the slot.

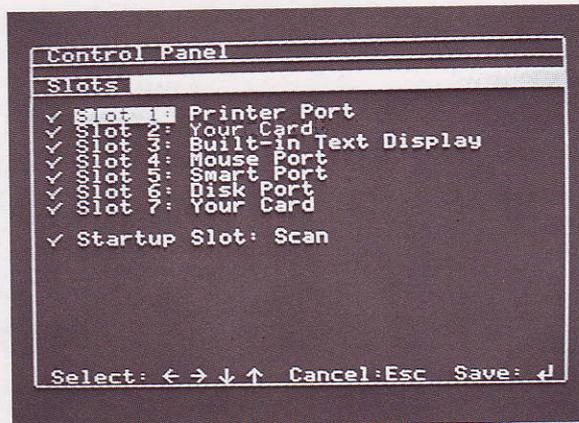


Look at the top left corner of the side of the card that has all the chips on it; make sure that the small rectangular box is fitted securely onto the pins farthest to the right, under the number 9. The box is known as a *jumper*, and you need it in this position to guarantee that your computer will have top priority in any communication along your SCSI cable system.

7. Put the lid back on. Slip the front edge of the lid in first, then lower the back edge of the lid into place. Press down on the back corners of the lid until you hear the latches click shut.

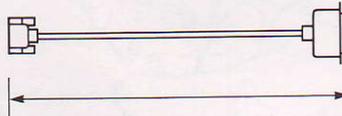
8. On the Apple IIGS, activate the slot.

Each port on the back of your Apple IIGS acts as a slot with a card in it. When you actually put a card into a slot, you need to use the Control Panel Program to "turn off" the port, and turn on the slot you've just installed your SCSI Card in. For details, see your owner's guide.



9. Turn to the cable manual before plugging anything in.

For help in laying out your SCSI cable, and instructions on connecting them to the connector you've anchored in the back panel, see the *Apple SCSI Cable System* manual, which comes with your System Cable.



The System Cable (it's the short one) will plug into the connector on the back panel. But do not plug it in yet. Wait until you've laid out all the necessary cables and placed your SCSI devices where you need them.

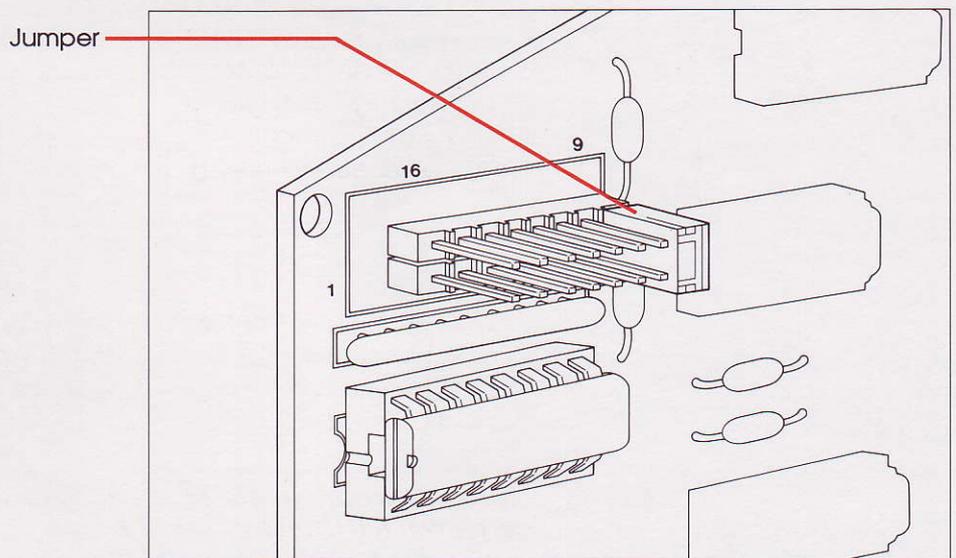
Warning Never, never plug a cable other than the System Cable into this connector. You could ruin your SCSI Card.

If you ever want to change the priority of your computer

The SCSI cable system allows you to assign different priorities to different devices. The device with the highest priority silences all other devices, so it can get its message through. Usually—95 percent of the time—you want your computer to have top billing, so that you can send messages anytime, anywhere, without having to wait for some other device to get off the line. In rare instances you *may* want to assign the computer a lower priority than some other device. Here's how.

1. Turn off the power. Touch the power supply to discharge any static electricity on your clothes or body.
2. Locate the jumper; when it is on the pins under the number 9, your computer has the highest priority. To change the priority, lift this box off, then fit it onto some other number, from 10 (next highest) to 16 (lowest possible priority). Do this *very gently*, so that you do not bend the pins.

In general, do not move the jumper unless you have a very strong reason to do so. If by any chance you have removed the jumper, the standard location for it is on the pins under the number 9.



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Apple II

Update

Using the
Hard Disk 20SC Test

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Apple[®] II Update

Using the Hard Disk 20SC Test

The HD-SCSI Test program runs on the Apple II family of computers to test the Apple Hard Disk 20SC. The program is on your *Apple II SCSI Hard Disk Test Program* disk. Use the 5.25-inch disk in a 5.25-inch disk drive and the 3.5-inch disk in the 3.5-inch disk drive.

HD-SCSI Test tells you whether or not your hard disk is reading and writing data properly. This program tests only hardware; it can't tell you if there are software problems. If your Hard Disk 20SC fails the test, the hard disk isn't working properly, even though you may not have noticed anything wrong. You need to have it checked by an authorized Apple dealer.

The test takes about 15 minutes. It does not affect the data currently stored on the disk. We encourage you to run the HD-SCSI Test at the following times:

- after you initialize your Hard Disk 20SC for the first time
- every month or so for preventative maintenance to avoid unexpected loss of data
- if you are having problems with the hard disk.

Use the following instructions to test a Hard Disk 20SC that is connected to an Apple II:

1. Turn on the Hard Disk 20SC and let it warm up.

2. Start up your Apple II with the *Apple II SCSI Hard Disk Test Program* disk in your primary disk drive.

The ProDOS® screen appears, and then you see a screen showing a list of the hard disks connected to your Apple II. If you have more than one hard disk connected, you see a line asking you to select a disk.

3. If you have one Hard Disk 20SC connected, press Return to begin the test.

If you have more than one Hard Disk 20SC connected, press the Up or Down Arrow keys (or the I and M keys on an Apple II Plus) to move the arrow on the screen through the list until it points to the disk you want to test. Then press Return.

During the test you see a series of lines, rotating in a pinwheel, in the upper-right corner of the screen, indicating that the test is in progress. Also, the light on the hard disk goes on.

If you want to stop the test, press the ESC key.

When the test is complete, you see a message reporting the results, either PASS or FAIL.

Remember, if your hard disk fails the test, you should have it checked by an authorized Apple dealer.



Apple. SCSI Interface Card

Packing List

This package contains the following items:

1	SCSI Interface Card	607-4291
1	Wrench/nut Assembly	676-5106
1	Manual: <i>SCSI Interface Card Owner's Guide</i> With Tell Apple Card	030-3118 030-1445
	Update: <i>Apple II Hard Disk 20SC Test</i>	030-1390
1	Warranty Card	030-0967
1	5.25-inch disk: <i>Apple II Hard Disk 20SC Test</i>	680-5023
1	3.5-inch disk: <i>Apple II Hard Disk 20SC Test</i>	680-5024

If you have a question, please contact your authorized Apple dealer.



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- Please contact your authorized Apple dealer when you have questions about your Apple products. Dealers are trained by Apple Computer and are given the resources to handle service and support for all Apple products. If you need the name of an authorized Apple dealer in your area, call toll-free: 800-538-9696.
 - Would you like to tell Apple what you think about this product? After you have had an opportunity to use this product, we would like to hear from you. You can help us to improve our products by responding to the questionnaire below and marking the appropriate boxes on the card at the right with a #2 lead pencil. If you have more than one response to a question, mark all the boxes that apply. Please detach the card and mail it to Apple. Include additional pages of comments if you wish.
1. How would you rate the Apple II SCSI card overall? (1=poor . . . 6=excellent)
 2. Where did you purchase your Apple II SCSI card? (1=dealer, 2=Corporate Buy, 3=Teacher Buy, 4=department store, 5=other)
 3. Which Apple II system are you using with the Apple II SCSI card? (1=Apple IIgs, 2=Apple IIe, 3=Apple II Plus)
 4. How many Apple SCSI peripherals are you using with your Apple II SCSI card? (1=1, 2=2 or more)
 5. How many non-Apple SCSI peripherals are you using with your Apple II SCSI card? (1=1, 2=2 or more, 3=none)
 6. What SCSI peripherals are you using on your Apple II system? (1=hard disk, 2=other)
 7. Did you use the *Apple II SCSI Card User's Manual* to help you install the card? (1=no, 2=yes)
 8. How would you rate the *Apple II SCSI Card User's Manual*? (1=poor . . . 6=excellent)
 9. How easy was the *Apple II SCSI Card User's Manual* to read and understand? (1=difficult . . . 6=very easy)
 10. Please describe any errors or inconsistencies you may have encountered with the *Apple II SCSI Card User's Manual*. (Page numbers would be helpful.)
 11. What suggestions do you have for improving the Apple II SCSI card?

Thanks for your time and effort.

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