READ ME FIRST!

quikLoader™

INSTALLATION MANUAL

SOUTHERN CALIFORNIA RESEARCH GROUP
Post Office Box 593
Moorpark, CA 93020

Telephone (805) 529-2082
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This unit is also covered under our six month warranty. If the unit fails to function within that time, return it, together with dated proof of purchase, to us. We will, at our option, repair or replace the unit.

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The *quikLoader* was designed by Jim Sather. The *quikLoader* operating system was written by Jim Sather. Entire contents copyright 1984, 1985, and 1986 by Jim Sather and Southern California Research Group.
HARDWARE REQUIREMENTS

The quickloader will work with an APPLE ][+, or //e. It will plug into any slot (except 0 of the ][ or ][+).

INSTALLATION (for //e)

([[ and ][+] installation instructions on a separate page)

The quickLoader installs the same as any other peripheral cards. (if you are unfamiliar with the process, refer to your computer manuals). First, TURN OFF POWER TO THE COMPUTER. For added safety, unplug the computer. Remove the top of the computer by grasping the rear of the top, and pulling up. Along the back of the computer, there are seven slots numbered one through seven. The quickLoader can be plugged into any vacant slot. (Instructions for the computer tell you not to plug anything into slot three if you have an extended eighty-column card in the expansion slot. You may ignore this restriction.) Be sure the card is plugged firmly into the slot, with the gold "fingers" plugged all the way in.

Installation is now complete, except for putting the top back on, and plugging the computer back in.

TESTING

Turn on the computer. You should hear a "whoop" instead of the normal beep. (If not, refer to page two of the manual, the paragraph called "quickLoader ON/OFF SWITCH"). The screen should show the normal APPLESOFT prompt ([l]) in the lower left corner. If you type the three letters "INT" (all capitals), then the return key, you should have the integer prompt (>) in the same place. Typing "FP", then return, should bring you back to the APPLESOFT prompt. You can be sure that the quickLoader is working if the above occurs.

TURN TO PAGE TWO "USING THE QUICKLOADER"
There are some minor differences in using the quickLoader between the 16+ and the /e. The 16K card that plugs into slot 0 of the 16+ is "built-in" to the /e with a minor operational difference. The "built-in" 16K of the /e can be reset by pushing the reset button of the computer. The add-on card for the 16+ cannot usually be reset. For the quickLoader to operate properly, the card should be modified to act as the "built-in" 16K. This is a minor modification, but before you do it, let's check if it is necessary.

Plug in the quickLoader, following the directions on page one. Turn on the computer, type "INT" and return. Type in a short program, such as the following:

10 FOR X = 1 TO 10
20 PRINT X
30 NEXT X

Now, type "RUN", followed by return. If the program runs, type "FP", and see if the computer operates normally. If so, your card doesn't need modification. Skip to page two.

More than likely, you will find that the computer "freezes", and you will be unable to get any response from typing any keyboard characters. If so, turn off the computer, and read on.

This freezing is caused by the 16K card and the quickLoader both trying to control the bus at the same time. (Bus is tech talk for the signal lines). This causes the computer to receive conflicting signals, with the result that it no longer works. If you know that you will not need the use of the 16K card while the quickLoader is installed, you will not need to make the following modification. Skip to page two.

Before making the modification, you may want to assure yourself that the quickLoader and computer operate well together. Try the resets listed on page 3. These should work fine without the modification. Come back to this point when finished.

Those of you reading to this point are the realists. You know that sometime in the future, you will want full use of the quickLoader. The following modification description is correct for APPLE 16K cards, but holds true for almost all 16K cards on the market.

1) With power off, find the 16 conductor cable running from the RAM card to the motherboard. Note in which direction the plug faces while plugged into the motherboard. Carefully, unplug the cable from the motherboard, then remove the RAM card from slot 0.

2) Locate the 74LS175 IC on the RAM card. Trace the conductor from pin 1 to the junction of a capacitor (usually about 10 microfarads) and a resistor.

3) Disconnect one lead each of the resistor and capacitor.
(either by de-soldering or cutting). Insulate these open leads with tape or heat-shrink tubing.

4) Connect an insulated wire (wire-wrap wire is best) between pin 1 of the 74LS175 and pin 31 of the edge connector. Solder to the top of the edge connector very carefully, so that solder does not make contact with pin 31 of the motherboard edge connector when the RAM card is installed.

5) Plug the RAM card back in, and connect the strap, making sure that pin 1 of the strap is toward the front.

6) Install the quikLoader, turn on the computer, and run the previous tests.

RESETS WITH THE ]][+

Throughout the manual, the directions for the resets will say something like "press CTRL-Q-RESET". In the case of the ]][ or ]][+, this has to be done a bit differently. In each case, first press, then release, the letter called for (Q, for instance). Then press CTRL-RESET (or, just reset, if your computer can do a reset without control).

If you want to do a normal reset, it is necessary to first type the letter "A". If you forget, the quikLoader will do whatever it was "told" to do by the last letter pressed. Usually, the last key pressed will be "RETURN". This is the same as CTRL-M. Thus, the quikLoader will drop into the monitor (shown by the "**" as prompt). It is easy to get back to where you were. Just type "3D0G" (that's number 3, shift-D, number zero, and shift-G). Then press "return".
The quickLoader is "reset driven". This means that the quickLoader is normally not active, except when a reset signal is generated. When the computer is first turned on, there is a "power-up" reset signal. Upon detecting the signal, the quickLoader takes over operation. It will load integer into the alternate 16K RAM, and load DOS 3.3 into RAM, in its usual location, with slot 6, drive 1 assumed to be the last-used drive. A "whoop", rather than the usual beep will remind you that the quickLoader is active. The quickLoader will then turn operation back to the computer, where you will be left with the APPLESOFT cursor on screen, and DOS connected.

The quickLoader is capable of many other functions, depending on which key is pressed while you type CONTROL-RESET. (APPLE ][ users, refer back to page 1A for differences). The sequences of keypresses is important, and may seem awkward at first, but with a bit of practice, you will find it quite easy. For example, CONTROL-Z RESET will reboot DOS. Let's practice...

Hold down the control key, press "z", then press and release the RESET key. Release the control and "z" keys, and the computer will "whoop" for you.

If you got a "beep" instead of a "whoop", you did not do it correctly. Try it a few times until you get a whoop each time. Go ahead - we'll wait...

Now that you have the idea, let's try some other resets. Control-M-reset will pop you into the monitor. (if you're a beginner, and don't understand the term "moniter" or other terms to follow, don't worry about it. Understanding will follow). Try it - you should get the astrisk (*) prompt. If not, try again, remembering the proper sequence - Hold down control, press M, press and release reset, then release M and control.

Next, bring up the APPLE mini-assembler. Press CONTROL-X-RESET, and you should have a "shriek mark" (!).

Here's your first convient command - With a standard DOS 3.3 disk in your drive, press CONTROL-C-RESET. Wasn't that a bit easier than typing "CATALOG"?

Now for the big one. Remember that this device is called the quickLoader. CONTROL-Q-RESET will give you the quickLoader Katalog. (We spell it with a "K" to differentiate it from the disk catalog.) This is the list of programs available to you instantly from the quickLoader. You will notice that there is an index letter on the left side of all programs. If you have a standard quickLoader, the Katalog looks like this:

NOTE: The number after the "S" in the second column might be different. Ignore it, for the time being.
If you want to run COPYA, just type the index letter "B".

The most exciting feature about the quikLoader is that you can have your own programs listed on the katalog. For this, use the PROGRAMMERS AID, packed with your quikLoader.

Following is a copy of the quikLoader HELP SCREEN (choice "C" on the katalog):

***********************************************
*                                          *
*  SCRQ QUIK LOADER/QLOS HELP SCREEN       *
*                                          *
***********************************************

KEYBOARD/RESET COMMANDS

A-MOTHERBOARD RESET IF POWER BYTE OK
   POWER UP RESET IF POWER BYTE BAD
   UNDEFINED KEY FORCES A-RESET

Z-MOVE INTEGER; MOVE AND INITIALIZE DOS

N-(NUMBER 0-7) DO ROUTINE ON CHIP N

Q-QUIK LOADER KATALOG

H-"Z RESET" THEN EXECUTE HELLO

B-(BOOT ONLY) MOVE AND INITIALIZE DOS

D-DISK BOOT

C-CATALOG DISK

M-ENTER MONITOR (DITTO RETURN)

S-SOFT RESET (SLOT-0 RAM CARD RESET)

X-GO TO MINI-ASSEMBLER

Y----------LOAD A, B, OR I FILE

Z----------TOGGLE PARAMETER DISPLAY

RIGHT ARROW-SCROLL FORWARD

LEFT ARROW--SCROLL BACKWARDS

SPACE-------FAST SCROLL

ESC--------ESCAPE FROM KATALOG

A.W EXECUTE P-FILE
   RUN OR LOAD A, B, OR I FILE