

(late).

Remove the four screws holding the ADAM Disk drive to the metal housing, and carefully remove all wires from the Drive to the controller board.

Remove the power connector cord from the controller (it has a white plug on one end) cut all four wires at the center. Use the supplied four wires and lengthen the power connector, soldering each end. Wrap each connection with standard electrical tape.

Remove the screws holding the controller board and remove the controller from the metal housing.

Look at the enclosed sheet showing the bottom of the controller board. Use the included wires and solder them to the EXACT location shown. The white lines shown on the sheet are the position of the wires to be soldered on the board.

As you can see from the picture of the controller board, there are three wires that need to be soldered to the bottom of the controller. Please note that the wire on your right, soldered to the center chip across two pins (pin 9 & 10).

Check your solder connections and make sure no solder is touching any other pin (except for the center chip that needs pins 9 & 10 connected)

Put the controller card back into the metal housing and slightly tighten all required screws.

Use the hammer and tap the four flanges on the inside of the metal housing. This will give your new Drive more room to fit. This can best be done by lying the edge of the controller against a hard wood surface.

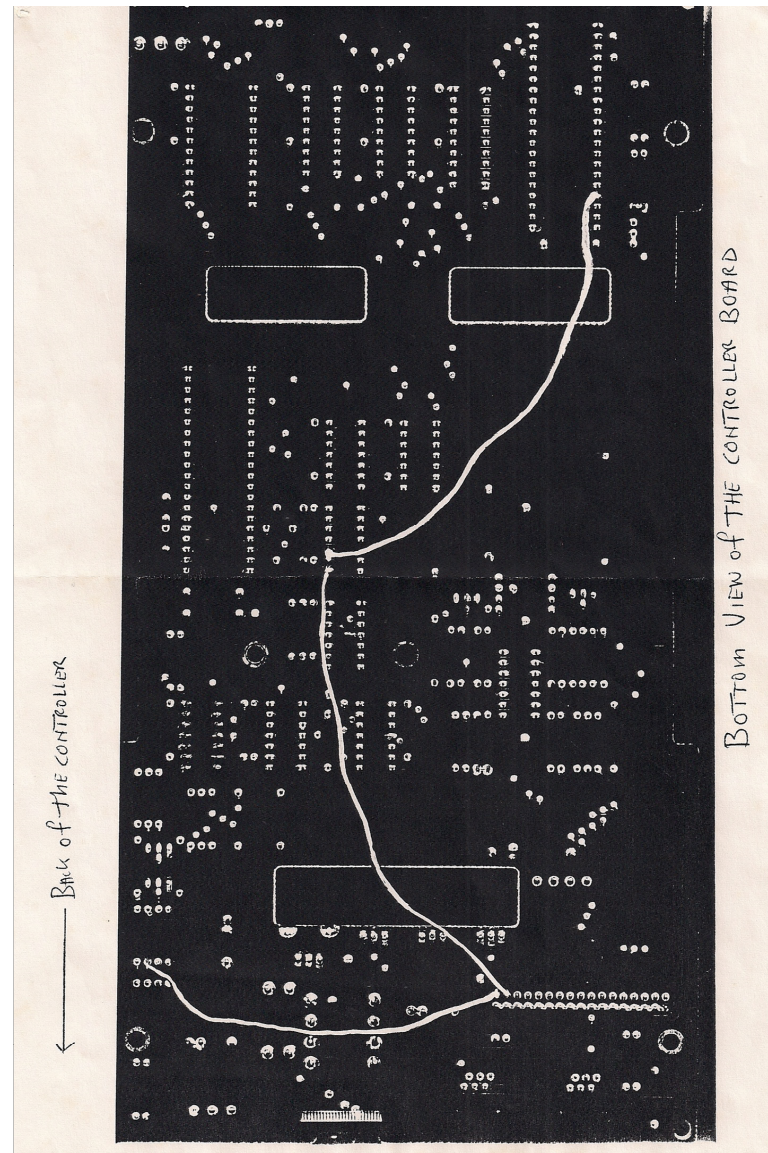
On the left front of the controller is the EPROM chip. This is the chip right behind the on/off switch. Use the knife and GENTLY remove the chip (being sure not to bend any of the legs). Replace this chip with the new one provided, being sure that all the legs of the chip fit into the socket correctly. (Note: The notch on the chip MUST be facing the FRONT of the controller).

Before re-attaching the plastic case, hook up the Drive to your ADAM, as per the instructions given in your original ADAM Disk Drive manual, and use the included CHECK DISK to see if the Drive is reading from the second side. If the screen shows that it checks out, then 'boot' the ADAM and use the FORMATTER and format a Disk.

If the drive does not work, check the U4 chip (located near the left rear of the controller). If the number of this chip is not a #7405, you MUST replace this chip with the one provided. To do this, you will need a de-soldering gun (available at Radio Shack) to remove the old chip. Once you have removed the bad chip, insert the provided #7405 chip with the notched end toward the front of the controller), and solder it to the board.

Give the Drive another test, and if everything checks out ok, re-attach the plastic case

If you have any questions concerning this modification, give us a call. We are available to answer any of your questions anytime after 8PM central standard time.



E. & T. SOFTWARE DISK DRIVE MODIFICATION INSTRUCTIONS

PLEASE READ ALL THESE INSTRUCTIONS BEFORE PROCEEDING

E. & T. Software will not be responsible for any damages to the users ADAM Disk Drive controller board because of the use of the following instructions:

If you have purchased a high quality 3 1/2" conversion kit that will allow you to up-grade your single sided ADAM Disk Drive to a 3 1/2" Drive. This new drive will give you 720K of storage space. The enclosed drive will work with nearly ALL available ADAM software. If your program is written in SmartBASIC, is one of the many COLECO programs, or a SmartWRITER file, it WILL work with your new drive. Since some programs from 3rd party developers will only write to a 160K type of Disk Drive, you will need to check with the manufacturer to see if their program is compatible.

We wish to thank Mr. Jim Marshall and Mr. Don Michel of MMSG for their fine work in fitting our new EPROM for this 720K Drive. These fine programmers have created the software that allows the Drive to format 3 1/2" Disks in only 1 minute and 5 seconds, and we have decreased the step rate from 20 milliseconds to 6 milliseconds. This will of course decrease the reading/writing time of programs/files that are larger than 4K in length.

USING CP/M 2.2

If you are using, or plan on using CP/M 2.2 with your new 3 1/2" Sided Drive, there are two programs you will need. These two programs are: BIOS PATCH, and CP/M FORMATTER. The BIOS PATCH will patch a copy of your CP/M media so it will read a 720K Disk, and the CP/M FORMATTER formats a 720K Disk for CP/M use. These two programs are available from E. & T. for only \$12.00 each. Our thanks to AJM SOFTWARE for these fine programs.

WARRANTY INFORMATION:

This 720K 3 1/2" up-grade kit is guaranteed for a period of ONE YEAR from the date of purchase. If, during the warranty period, the enclosed Drive does not perform correctly when installed, as per these installation instructions, E. & T. Software will replace the drive with a workable unit (IF RETURNED DURING THE WARRANTY PERIOD). If this drive proves defective, ALL parts contained in this kit MUST be returned in good condition, this warranty shall become null and void. (NO RETURNS SHALL BE ACCEPTED WITHOUT A RETURN AUTHORIZATION NUMBER)

VERY IMPORTANT: Enclosed in this kit is a foam block, tin foil, and a return padded envelope. This is for the user to RETURN to E. & T. SOFTWARE the original ADAM EPROM contained on the COLECO controller board. We ask that you please send this part to us in the provided mailer. Thank you for your cooperation.

WHAT YOU WILL NEED:

To modify your ADAM Disk Drive, you will need the following equipment: philips head screwdriver, 15 watt soldering iron, ROSEN CORE solder, one roll of standard electrical tape, hammer, knife, and possibly a de-soldering gun.

DRIVE MODIFICATION INSTRUCTIONS

Remove all connections to your ADAM Disk Drive

Remove all screws from the outside case (including the two screws from the plastic face

move the four screws holding the ADAM Disk drive to the metal housing, and then remove all wires from the Drive to the controller board.

Remove the power connector cord from the controller (it has a white plug on one end) and cut all four wires at the center. Use the supplied four wires and lengthen the power cord, soldering each end. Wrap each connection with standard electrical tape.

Remove the screws holding the controller board and remove the controller from the metal housing.

Look at the enclosed sheet showing the bottom of the controller board. Use the included wires and solder them to the EXACT location shown. The white lines shown on the sheet indicate the position of the wires to be soldered on the board.

As you can see from the picture of the controller board, there are three wires that need to be soldered to the bottom of the controller. Please note that the wire on your right, is connected to the center chip across two pins (pin 9 & 10).

Check your solder connections and make sure no solder is touching any other pins (except for the center chip that needs pins 9 & 10 connected)

Slide the controller card back into the metal housing and slightly tighten all required screws.

Use the hammer and tap the four flanges on the inside of the metal housing. This will give your new Drive more room to fit. This can best be done by lying the edge of the metal housing against a hard wood surface.

On the left front of the controller is the EPROM chip. This is the chip right behind the power on/off switch. Use the knife and GENTLY remove the chip (being sure not to bend the legs). Replace this chip with the new one provided, being sure that all the legs of the chip fit into the socket correctly. (Note: The notch on the chip MUST be facing to the FRONT of the controller).

Remove the small wire from the 3 1/2" Drive to pin #2 of P4. P4 is the four pins that are located to the rear of the controller (on the left side). Pin #2 is the second pin from your power supply, now, install the 3 1/2" Drive into the metal housing, being sure to attach the power cord and the large gray cord.

Before re-attaching the plastic case, hook up the Drive to your ADAM, as per the instructions given in your original ADAM Disk Drive manual, and use the included CHECK program to see if the Drive is reading from the second side. If the screen shows that it checks out, then 'boot' the ONE MINUTE FORMATTER and format a Disk.

If the drive does not work, check the U4 chip (located near the left rear of the controller). If the number of this chip is not a #7405, you MUST replace this chip with the provided. To do this, you will need a de-soldering gun (available at Radio Shack) to remove the old chip. Once you have removed the bad chip, insert the provided #7405 chip (the notched end toward the front of the controller), and solder it to the board.

Run the Drive another test, and if everything checks out ok, re-attach the plastic case.

If you have any questions concerning this modification, give us a call. We are available to answer any of your questions anytime after 8PM central standard time. Our phone number is: (214) 414-8156