

O R P H A N W A R E
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ORPHANWARE PARALLEL PRINTER INTERFACE INSTRUCTIONS
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Equipment Included:

1. One Parallel Printer Interface
2. One Parallel Print Patch Disk

Additional Equipment Needed:

1. One Parallel Printer Interface Cable - Radio Shack Model 100 Parallel Printer Cable.
2. The DISK MANAGER disk
3. One blank disk.
4. A copy of the ADAM CP/M disk you wish to patch (if you have CP/M).

The parallel printer interface you have purchased comes with the hardware and software needed to drive your printer. You must supply the parallel printer (a printer with a centronics interface option) and the cable to connect the interface to the printer. As mentioned above, the Model 100 cable by Radio Shack is the recommended cable. The software needed to use your printer in ADAM programs and CP/M programs is on this disk.

To use your parallel printer you will have to do 3 things: 1) Install the parallel interface 2) Install the EOS printer patch 3) Transfer the CP/M drivers to your CP/M disk.

I. INTERFACE INSTALLATION: To install the interface, complete the following steps:

1. Turn the ADAM computer, the ADAM disk drive, and your parallel printer OFF.
2. Plug the parallel interface, with the component side to the right as you face the front of the ADAM, into expansion port 2 (the center port of the 3 expansion ports).
3. Connect the end of the Radio Shack cable with the black connector on it to the ORPHANWARE interface, making sure the side with the word TOP on it faces up.
4. Connect the blue connector of the cable to your printer. It will only go on one way.
5. Turn ON the ADAM, the disk drive, and the parallel printer.
6. The computer should come up in the typewriter mode. If this does not happen, turn everything OFF. Reseat the interface and both ends of the cable and then turn everything back on.

II. EOS PRINTER PATCH INSTALLATION: This process will modify a copy of the ADAM Disk Manager master disk. Follow the instructions below to install the EOS patch.

1. Make a new EOS disk:
 - a. Boot your original EOS disk (Disk Manager disk).
 - b. After EOS boots remove the EOS master disk.
 - c. Insert the blank disk.
 - d. Press Smartkey-IV (format).
 - e. Press Smartkey-VI (start format).
 - f. Press Smartkey-V (system disk).
 - g. Press Smartkey-V (yes).
 - h. When format is done, remove the new EOS disk.
2. Boot the ORPHANWARE PARALLEL PRINT PATCH disk
3. The EOS Install program will instruct you to insert a copy of the EOS disk. Remove the ORPHANWARE PARALLEL PRINT PATCH disk and insert the new EOS disk made in step 1.
4. Press any key and the EOS install program will install the patch to the EOS disk.
5. To test the new EOS disk, pull the system reset switch. When EOS boots press the escape key once to go to the typewriter mode and type something. The printing should now occur at your parallel printer.
6. To print from Smartwriter, boot the disk you just made. When the file directory comes up hit the escape key twice. This will put you into the Smartwriter mode. Now, whenever you print, the default printer will be the parallel printer.
7. Whenever you want to use your parallel printer with ADAM programs such as Smartfiler or SmartBasic, do the following:
 - a. Insert the modified EOS disk.
 - b. Pull the system reset switch. This will load the modified EOS into memory.
 - c. When the File Directory is displayed and the disk stops spinning remove it.
 - d. Insert the disk which contains the program you wish to use.
 - f. Press Smartkey-IV (run)
 - g. Press Smartkey-VI (run file)
 - h. The program you selected to run will now begin and will operate as normal except the parallel printer will be the default printer.

III. TRANSFERRING THE CP/M PARALLEL PRINTER DRIVERS: This process will copy/convert the file CPMPATCH.H from the ORPHANWARE disk to your CP/M disk. You will use the CP/M ADAM command to perform this conversion. Follow the instructions below:

1. Boot CP/M (it must have the ADAM.COM file on it).
2. At the CP/M prompt enter ADAM and press (return).
3. At the "ADAM TAPE/DISK IS DRIVE " prompt, enter: A and press (return).
4. At the prompt: PLACE ADAM TAPE/DISK IN THE
DEFAULT DRIVE

PRESS RETURN KEY WHEN READY

- a. Remove the CP/M disk.
- b. Insert the ORPHANWARE PARALLEL PRINT PATCH disk.
- c. Press (return).
5. At the prompt: TRANSFER ADAM FILE?, type CPMPATCH and press (return). This must be in capital letters.
6. At the prompt: ADAM FILE TYPE, enter H and press (return). Again this must be a capital letter.
7. AT the prompt : NAME CPM FILE ? , enter any name you chose, the only restriction being that the extension must be COM. An example would be PRINT.COM.
8. Follow the next prompt by removing the ORPHANWARE PARALLEL PRINT PATCH disk, inserting your CP/M disk, and pressing (return).
9. Follow the next prompt by removing the CP/M disk, inserting the ORPHANWARE PARALLEL PRINT PATCH disk, and pressing (return).
10. Follow the next prompt by removing the ORPHANWARE PARALLEL PRINT PATCH disk, inserting your CP/M disk, and pressing (return).
11. At the prompt: ANOTHER FILE TO TRANSFER (Y or N) ? , enter n and press (return).
12. This finishes the CP/M driver installation. Whenever you wish to print from your parallel printer in CP/M, do the following:
 - a. At the CP/M prompt, type the name of the file you created in step 7 and press (return).
 - b. The default printer has been changed from the ADAM printer to your parallel printer and is activated in the same manner as the ADAM printer. The first time the CONTROL and P keys are pressed at the same time the printer will turn on. The second time the CONTROL and P keys are pressed the printer will turn off. In other words, the CONTROL and P keys toggle the printer on and off.

IV. NOTES:

1. To turn the parallel printer on and off in SmartBasic use the same commands as for the ADAM printer: PR#1 to print and PR#0 to stop printing.
2. The Auto Page # function is not supported under Smartwriter.
3. Be sure to include a (return) as the last line of all text files. If this is not done, the last line will be printed as the first line of the next output to the printer. For an example, see the last line of this documentation file under Smartwriter.

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CP/M is a trademark of DIGITAL RESEARCH INC.

Radio Shack is a trademark of Tandy Corp.

Orphanware assumes no responsibility for use of this hardware or software and will not be responsible for damages incurred do to the use of said hardware and software. The interface is guaranteed for a period of 180 days to be free from defects in materials and workmanship. If it should fail, return it to Orphanware for immediate repair or replacement The ORPHANWARE PARALLEL PRINT PATCH disk is guaranteed for a period of 90 days and will be replaced free of charge during the 90 day period when the original is returned to ORPHANWARE. After the 90 days, return the original disc and \$5.00 to ORPHANWARE for replacement.