Required tools:

- Phillips screwdriver

- IC extractor or small, flat-bladed screwdriver. Needed for removal of the stock DOS ROM on the 1571 circuit board. An IC extractor is recommended, but not necessary (the small screwdriver will suffice). However, if using a screwdriver, wrap a layer of tape around the tip to help prevent damage to the circuit board when prying.

Procedure:

1. If a diskette is present in the 1571, remove it.

2. Make sure that the 1571 power switch and the power switch on your computer are OFF. Also make sure that any other peripherals attached to the serial bus are also switched OFF.

3. Unplug the 1571 power supply cord from its wall outlet.

4. Unplug all cables from the rear of the 1571, including the power supply cable and serial bus cable(s).

5. Turn the 1571 upside-down and remove the four screws from the bottom of the drive as indicated in Figure 1 below.
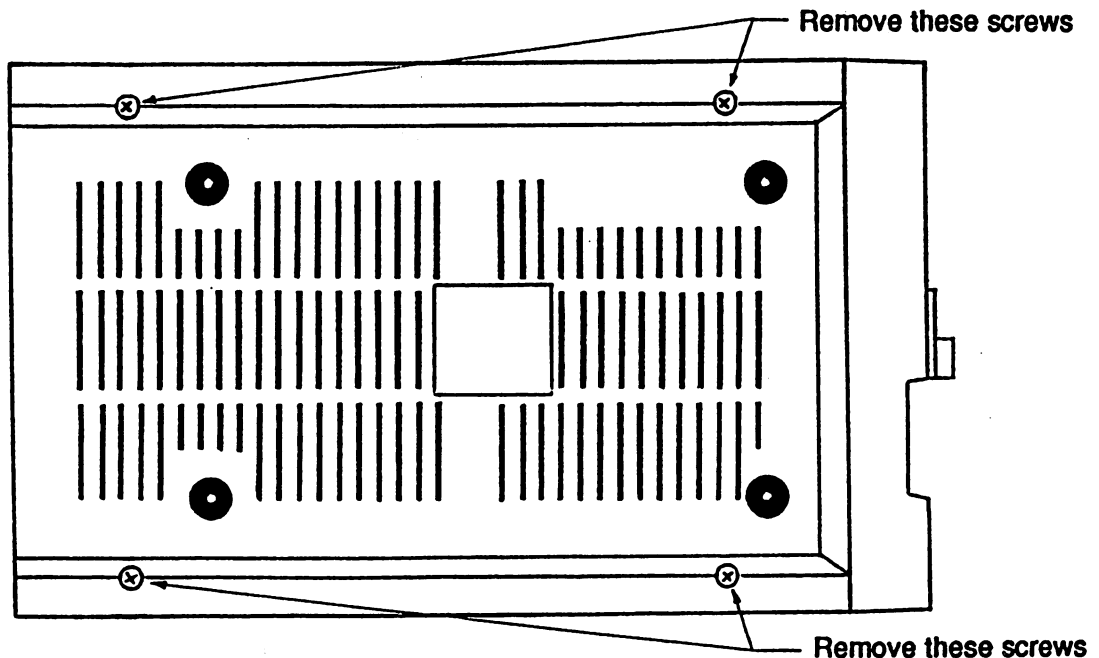

Figure 1   1571 CASE SCREW REMOVAL

6. Turn the 1571 right-side up and remove the top cover.

7. Remove the power supply from the 1571. Refer to Figure 2 below to accompany the following steps for removing the power supply:

   a. Remove the four screws holding the supply in place.

   b. Remove the braided power supply ground strap from the drive mechanism frame.

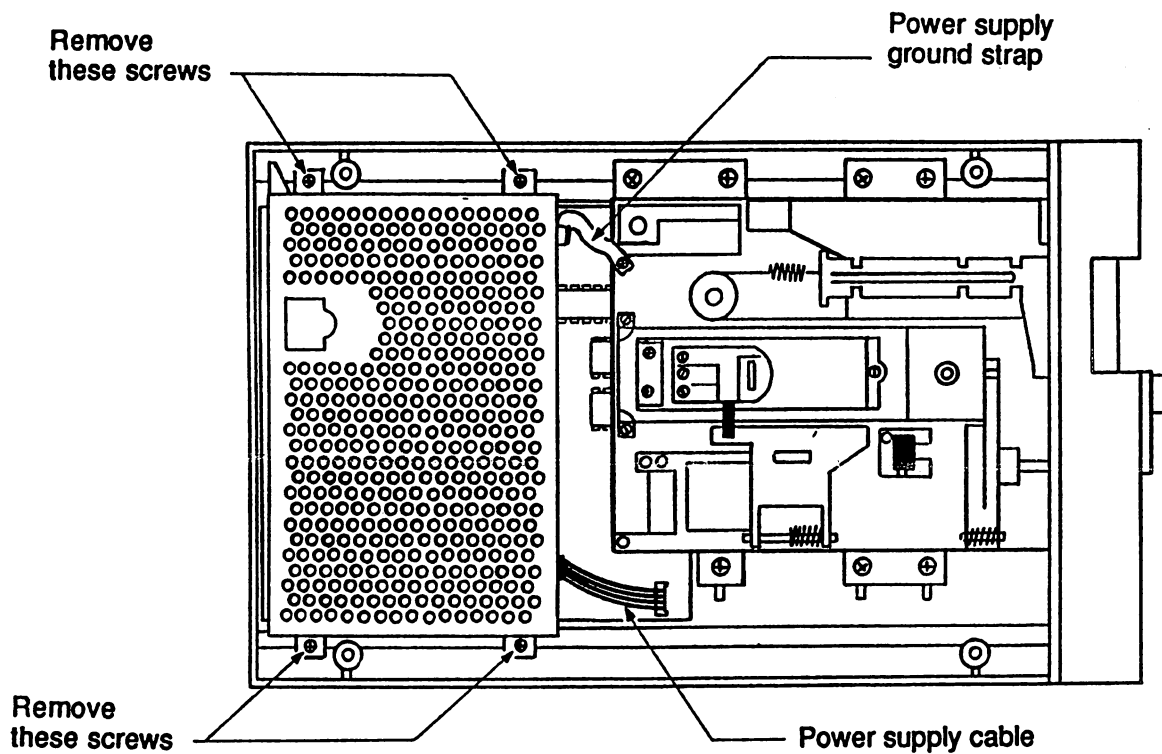   c. Unplug the power supply cable from the 1571 circuit board.

Figure 2   1571 POWER SUPPLY REMOVAL

8. Once the power supply has been removed, locate the DOS ROM on the 1571 circuit board using the diagram in Figure 3 below.
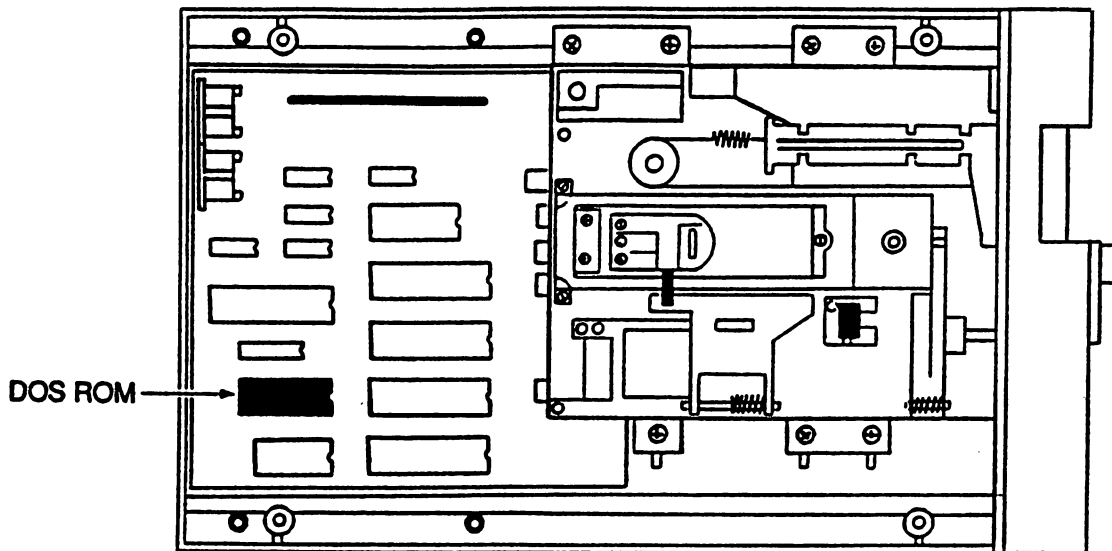

DOS ROM ──→

Figure 3 1571 DOS ROM LOCATION

9. Carefully remove the 1571 DOS ROM from its socket using the IC extractor or small, flat-bladed screwdriver. Alternate lifting the ROM from each end, raising it from its socket a little at a time. If using a screwdriver, take care not to damage the circuit board or any of the circuit board components while prying.

10. Remove the JiffyDOS ROM labeled 1571 from its packing (see Figure 4 below). Put the stock 1571 DOS ROM back into the packing for safe keeping.

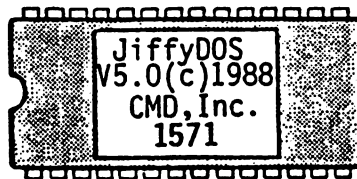JiffyDOS
V5.0(c)1988
CMD,Inc.
1571

Figure 4 JIFFYDOS 1571 DOS ROM

11. Inspect the JiffyDOS 1571 ROM carefully. If you observe any bent pins, carefully straighten them with a pair of tweezers.

12. "Test fit" the JiffyDOS 1571 ROM on top of the empty DOS ROM socket.

VERY IMPORTANT

MAKE SURE THAT THE NOTCH ON THE JIFFYDOS
ROM IS FACING THE FRONT OF THE DISK DRIVE
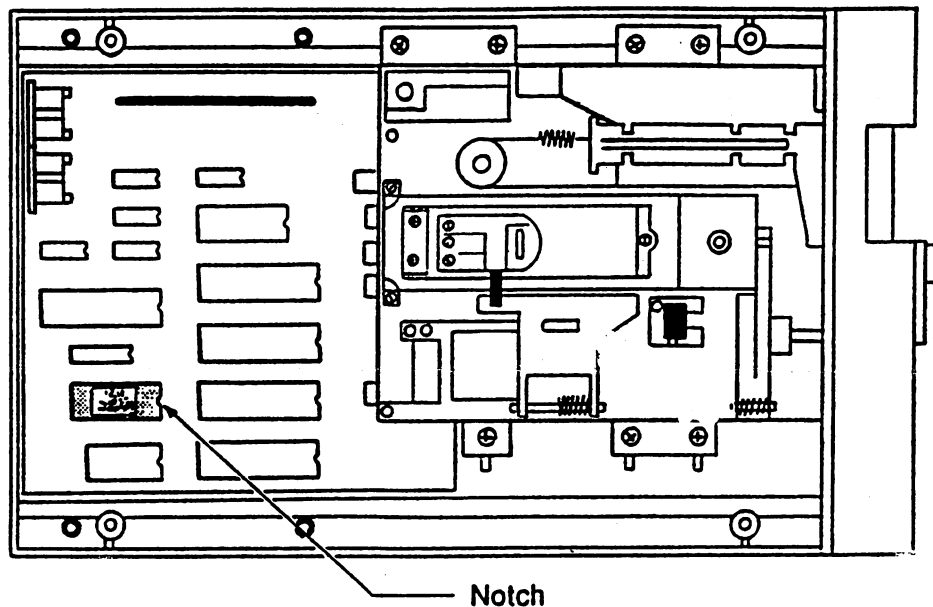AS SHOWN IN FIGURE 5 BELOW.

Notch

Figure 5 NOTCH ORIENTATION

13. With all pins on the JiffyDOS ROM properly aligned with the socket, and with the ROM notch facing the front of the disk drive, carefully press the 1571 ROM into the socket using finger pressure until it is fully seated.

14. Replace the power supply and secure it with the four screws removed earlier.

15. Reconnect the power supply ground strap to the 1571 drive mechanism frame.

16. Reconnect the circuit board power connector to the circuit board.

IMPORTANT

> **The BLACK wire on the connector should face the outside of the drive, and should correspond with Pin 1 on the circuit board header.**

17. Replace the 1571 top cover, turn the drive over, and replace the four screws which hold the cover in place.

18. Reconnect the AC power supply cable to the rear of the 1571.

19. Plug the AC power supply cable into a working outlet.

20. Connect the serial bus cable between the 1571 and your computer.

Installation Checkout Procedure:

NOTE: Some of the steps in the following 1571 installation checkout procedure require the use of a JiffyDOS-equipped computer.

1. Switch the 1571 ON. The green activity light on the front of the 1571 should come on immediately as power is switched on, stay on for about one second, and then shut off as it normally does upon power-up.

    IF THE ACTIVITY LIGHT STAYS ON OR BLINKS REPEATEDLY, IMMEDIATELY SWITCH THE 1571 OFF. THEN FOLLOW THE STEPS OUTLINED BELOW.

    1a. Recheck all cable connections to the 1571. Make sure that the serial bus cable and power supply cable have been connected properly. **Make sure that the AC power cord has been plugged into a working outlet.** If any cabling errors have been made, correct the errors and try powering up the 1571 again.

    1b. If the problem is not with the cabling, disassemble the 1571 according to the procedure you used earlier. Remove the JiffyDOS ROM from its socket and then reinstall it according to the procedure in Steps 11-13. **Make sure that the ROM notch is oriented correctly, that there are no bent pins, and that the ROM is seated snugly in its socket.** Once the JiffyDOS ROM has been reinstalled and the drive has been reassembled, try powering up the 1571 again.

    1c. If Steps 1a and 1b both fail, remove the JiffyDOS ROM and reinstall the stock 1571 DOS ROM. Follow the same procedure for installing the stock DOS ROM as you did for installing the JiffyDOS ROM. Make sure that the notch on the stock DOS ROM is oriented correctly. Try powering up the 1571 again. If it powers up properly, return your JiffyDOS 1571 ROM to Creative Micro Designs for replacement under warranty. If your disk drive does not power up properly, seek the assistance of a qualified technician.

2. Once the 1571 has been powered up successfully, select JiffyDOS on your computer and then power it on (make sure that the power-on message on your computer indicates that JiffyDOS is active). Insert a known good diskette with a few programs on it into the 1571.

3. At your computer, type @$ and RETURN. The activity light on the 1571 should come on and a directory listing should appear on the screen.

   IF THE DIRECTORY LISTING DOES NOT APPEAR, OR AN ERROR MESSAGE IS DISPLAYED, SHUT OFF THE 1571 AND YOUR COMPUTER. FOLLOW THE TROUBLESHOOTING PROCEDURES OUTLINED BELOW.

   3a. Make sure that JiffyDOS is selected on your computer. When JiffyDOS is selected, the power-on screen will display: **JIFFYDOS/64 VERSION x.x**, or **JIFFYDOS/128 VERSION x.x**. If you did not have JiffyDOS selected on your computer, select it now and try reading the disk directory again.

   3b. Make sure that you have a known good disk in the 1571. Make sure that the disk is properly inserted in the drive.

   3c. Recheck the serial bus cabling between your computer and disk drive. Correct any errors and try reading the directory again.

   3d. If the problem persists, proceed with troubleshooting procedure 1b found on the previous page.

4. After the directory test, the 1571 is ready to use. If there are any more peripherals to connect to your system, shut off the 1571 and your computer, and connect them at this time.