

## ...RapiDOS Installation...

1. Inspect the contents of the package, a standard RapiDOS will contain:
  - a. Two ROM adaptor boards, one labeled '64' the other '1541'. The C-128 version will have an adaptor board labeled 'U-32'.
  - b. A user-port connector with a reset button and a RapiDOS selection switch.
  - c. A board mounted on top of a low power 6522 chip.
  - d. A 3.5 ft. length of ribbon cable.

RapiDOS Professional will not include a ROM adaptor board labeled '1541' (unless the drive is a 1541c) but will have a 5 in. long 'Professional' drive controller board.

2. Unplug the computer and disk drive(s) and open them.
3. Remove the radio frequency (RF) interference shield from the computer. It will be cardboard on a 64 and metal on a 128. On a 64c remove the keyboard then remove the metal RF shield; bend them leftmost 3 heat sink tabs even with the shield. Bend up only the heat sink tab over the U32 chip on a 128.
4. Find the U4 chip (U32 on a 128) and remove it from the socket with a flatheaded screwdriver or an IC removal tool (Fig 1). If it is soldered to the PC board a socket will have to be installed.
5. Inspect all the pins on the adaptor board, straighten any bent ones. Insert the adaptor board into the socket keeping the wire lead towards the back of the computer (Fig 2). If you have a 64c with a 28 pin U4, the wire lead will face forward. Make certain each pin is correctly inserted before continuing.
6. Bring the wire lead out through the User-port (Fig 2).
7. Put the RF shield (and keyboard on a 64c) into place, close up the computer, plug it in, and turn it on.
8. The normal blue screen should appear, if not, re-check the installation.
9. Unplug the computer again.
10. Remove the metal RF shield from the 1541.
11. Inspect the board and compare it to Figures 3 and 6. The layout of the chips should match one of these. If it is a 1541c it will match Figures 9 and 10.
12. Remove chips UC3 and UB4 on the 'short board' 1541. Remove chips UAB1 and UAB5 on the 'long board' 1541. Remove chips UC1 and UA2 on the 1541c.
13. If you are installing RapiDOS Professional remove UC4 on the 'short board', UCD5 on the 'long board', and UC2 on the 1541c.
14. Plug the narrow 6522 board into UC3 (or UAB1, or UC1), make certain that all the pins line up correctly and fit into the socket (Fig 4,5 or 7,8 or 9,10)
15. On a standard RapiDOS system, plug the 1541 adaptor socket into UB4 (or UAB5, or UA2), again check the pins for a correct fit.
16. With RapiDOS Professional leave UB4 (or UAB5) empty (Fig 5 or 8).
- 8). On a 1541c plug the special adaptor socket into UA2 (Fig 10).



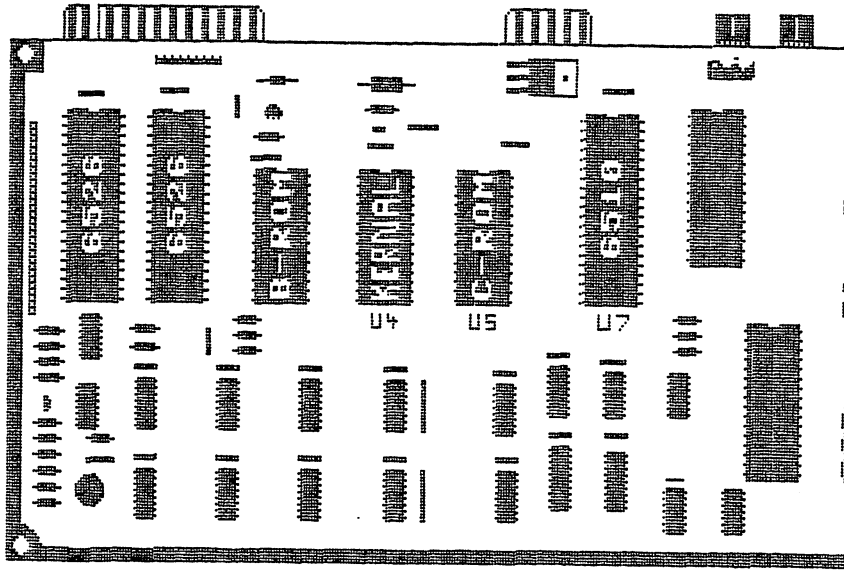
17. With RapiDOS Professional plug the long 'Professional' drive controller board into UC4 (or UC5, or UC2). Plug the chip you removed from this position into the 'Professional' board (Fig 5, or 8, or 10). The 154lc version may need one or two 40 pin sockets between it and the original socket due to varying heights of PC board components.
18. Connect the wire lead from the adaptor board or the 'Professional' board to the 6522 board (Fig 4,5 or 6,7 or 9,10).
19. Connect one end of the ribbon cable to the 6522 board as shown (do the reverse of the connection shown for the 154lc), and bring the cable down and out past the power plug opening.
20. Do NOT re-install the RF shield inside the 1541, put it and the chips removed during the installation away for safe-keeping.
21. Close up the drive, plug it in, and turn it on. The motor should spin for about 4 seconds then stop. If this does not happen turn the drive off and re-check the installation.
22. Plug the User-port board into the 64 or 128.
23. Attach the free end of the ribbon cable to one of the connectors on the User-port board.
24. Attach the wire lead from the computer adaptor board to the User-port board (Fig 2).
25. Push the selector switch away from the back of the computer (this is the RapiDOS position).
26. Plug in the computer and turn it on.
27. The Grey, Black, Green screen of RapiDOS should appear. If not re-check the installation in both the computer and the disk drive.
28. If problems persist, get in touch with your dealer or Chip Level Designs at:

Chip Level Designs  
PO Box 603 Dept. R  
Astoria, OR 97103  
Phone: (503) 861-1622

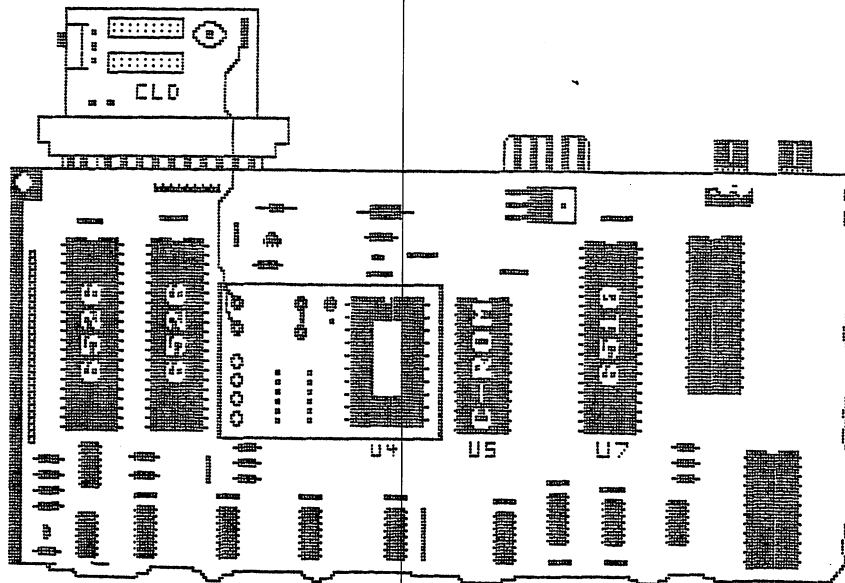
--> COPYRIGHT CHIP LEVEL DESIGNS 1987 <--

[preliminary manual .1]

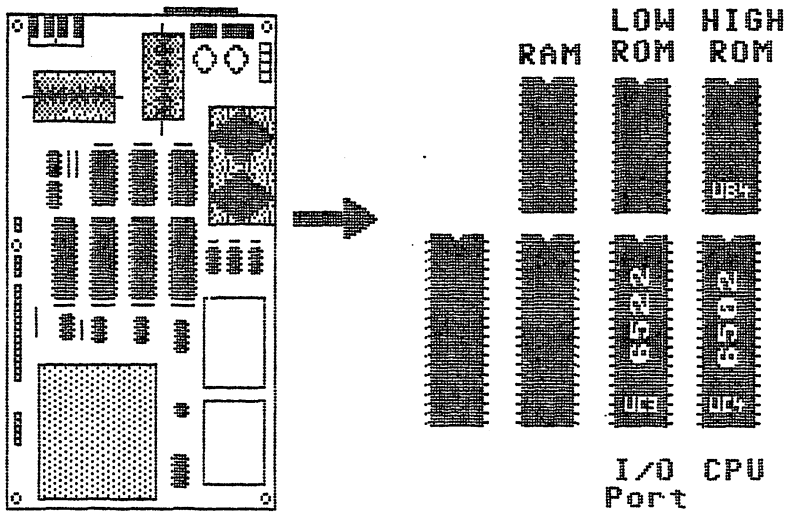
# Fig. 1



# Fig. 2



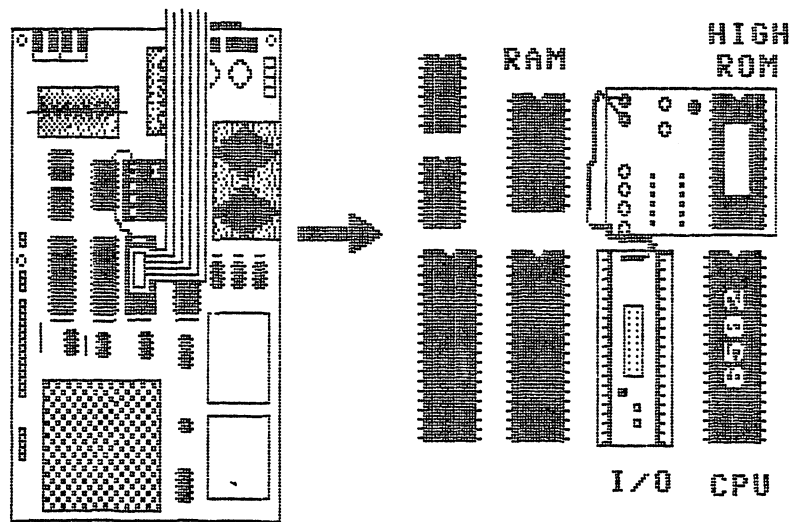




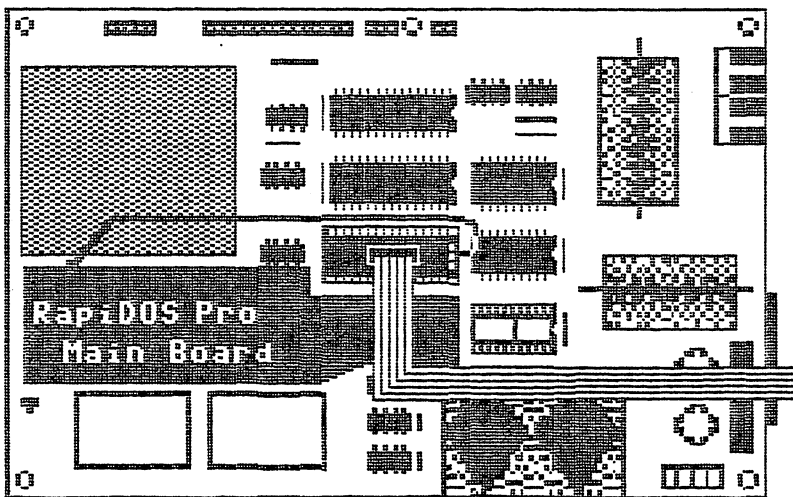
Newer 1541 'Short Board'

← Fig. 3

Fig. 4 →

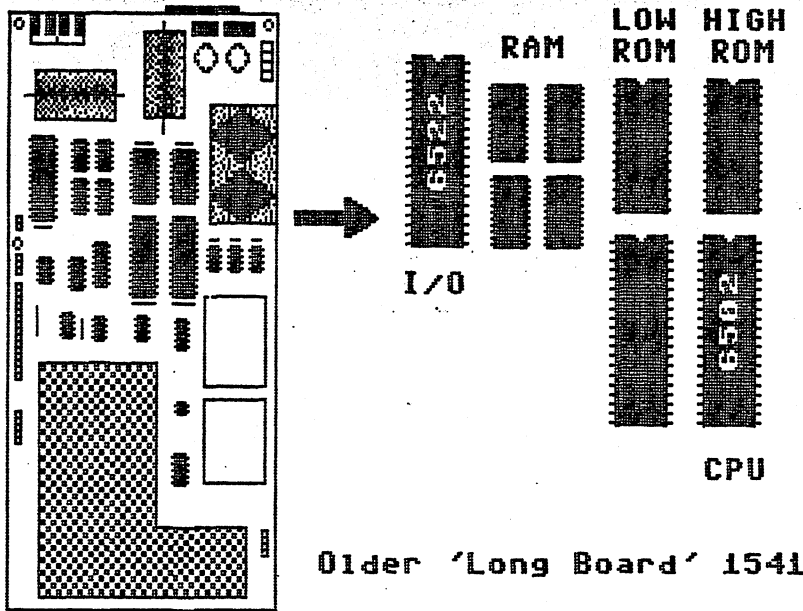


Newer 1541 'Short Board' With RapiDOS Installed.



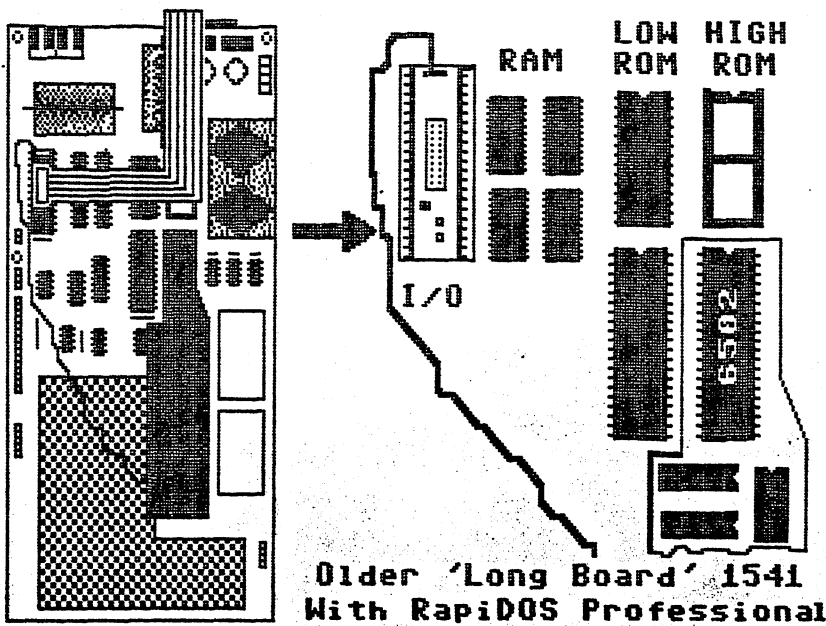
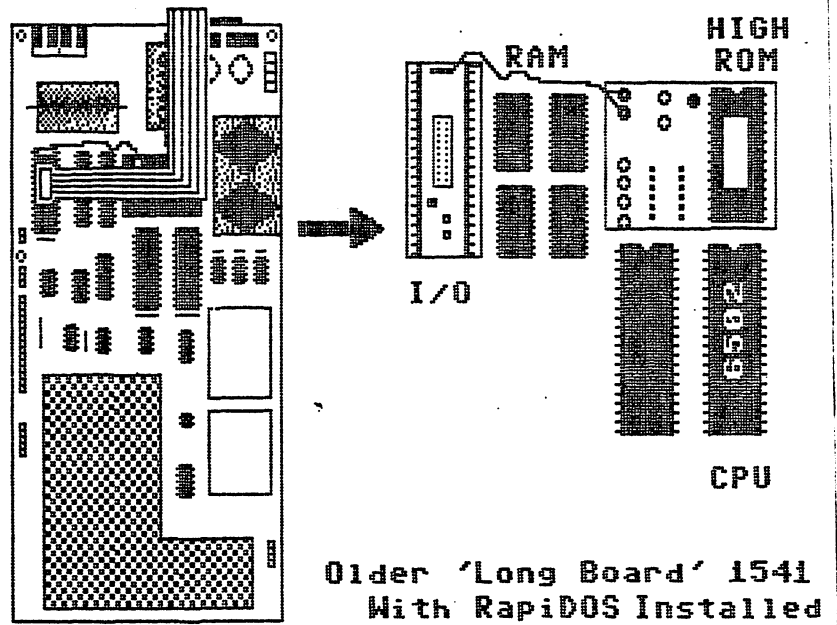
← Fig. 5

Newer 1541 'Short Board' With RapiDOS Professional Installed.



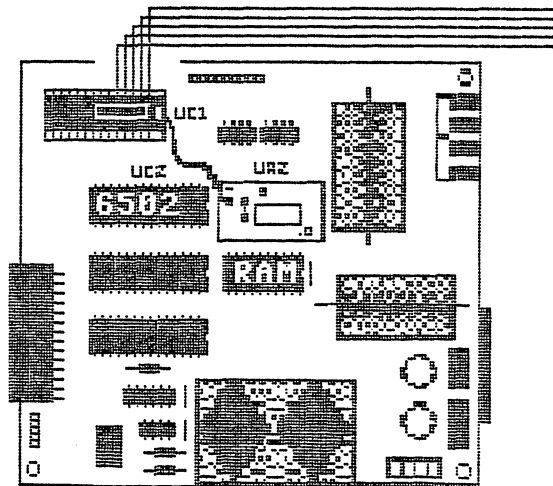
← Fig. 6

Fig. 7 →



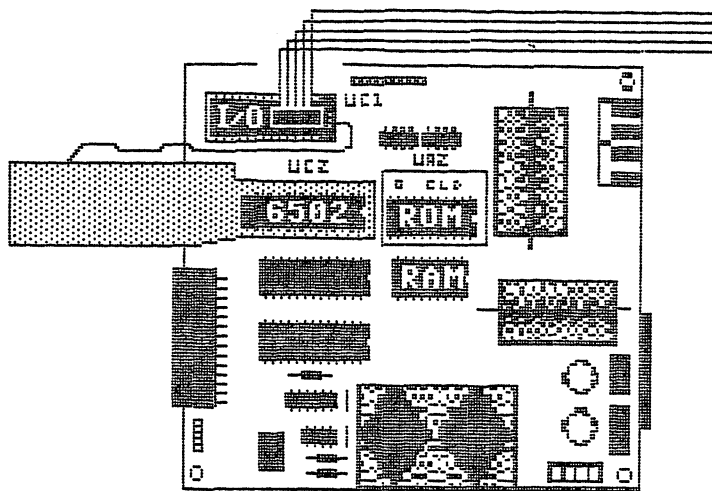
← Fig. 8

# Fig. 9



1541c With RapiDOS Installed.

# Fig. 10



1541c With RapiDOS Professional.