

# SECOND FLOPPY DISC DRIVE INSTALLATION LEAFLET

FOR USE WITH ARCHIMEDES PERSONAL WORKSTATIONS

These instructions detail how to install a second floppy disc drive upgrade in an Archimedes computer system.

In order to fit the upgrade, you will have to remove the lid of the computer unit. The only tools you will require are a No. 1 Posidriv screwdriver and a small flat-bladed 'electrical' screwdriver.

Please read through the following instructions carefully before you start. If you do not feel confident about carrying out this installation, take this upgrade and your Archimedes computer unit to your supplier who will fit it for you. A charge may be levied by the supplier for installing the upgrade; such a charge shall be entirely at the discretion of the supplier concerned.

Please take care whilst fitting this upgrade - the disc drive unit and cable assembly are delicate. Any damage caused whilst fitting this upgrade is unlikely to be covered by the guarantee.

## PARTS LIST

In the upgrade package you should have:

- One 3.5" Disc Drive
- One dual disc drive cable assembly
- One drive bracket
- One dual disc drive sub-moulding assembly
- Model number labels for the front panel
- Six M3 x 6 mm Pan Head Pozidriv screws

## DISASSEMBLY

1. Switch off the computer at the rear and disconnect it from the main supply by unplugging the power supply cable. Then, remove any peripherals that are attached and clear the computer completely, ie remove any monitor from the top of the unit and any other loose items.
2. Locate the screws holding the top case in place (see Fig. 1 below). Remove the three screws at the top rear of the unit, then remove the single screw on each side of the unit.

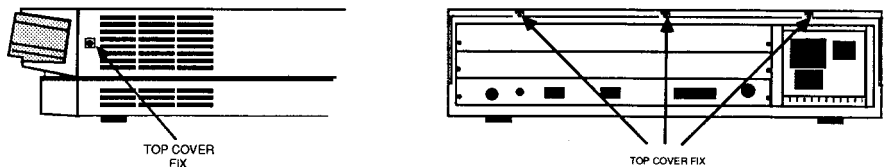


Fig. 1: The position of the screws holding the top case.

3. Once you have removed the three rear screws and the two side screws, slide the lid of the unit to the rear of the machine and then slide it off. You should remove the lid completely.

## FITTING THE UPGRADE

The second floppy disc drive (drive 1) fits alongside the original drive (drive 0) on the disc drive support bracket, as follows:

1. Remove the two screws securing the front moulding assembly at each side. Stand the unit on one side and remove the three screws securing the front moulding assembly to the base metalwork (see Fig. 2).
2. Stand the unit back on its feet and unplug the LED/speaker connector PL9 from the main board (see Fig. 4). Grasp the front moulding assembly at each end and use a straight, steady pull to withdraw it from the front of the unit.

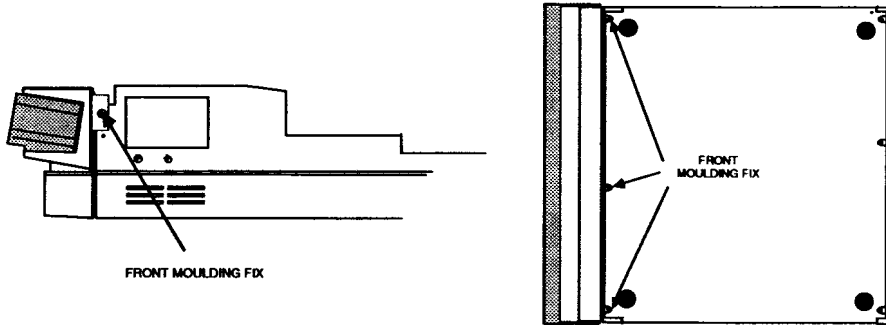


Fig. 2 - Removing the front moulding assembly

3. Unplug and remove the ribbon-type data cable which connects between connector SK11 on the main printed circuit board and the connector on the rear of the original disc drive 0. Connect the centre connector on the new dual drive cable assembly to drive 0 and the end connector to SK11 (see Fig. 3).
4. The new disc drive comes with a front fascia panel attached. This fascia is fitted to protect the unit in transit and is not required when the drive is installed in an Archimedes system. The fascia is held in position by two clips, one on each side of the drive. These may be levered carefully out of position using a small screwdriver and the fascia removed. Take care not to dislodge the drive eject button while removing the fascia.
5. Before fitting the new drive, it must be configured as drive 1. To do this, set the small slide switch on the side of the drive to position "1" (see Fig 3).

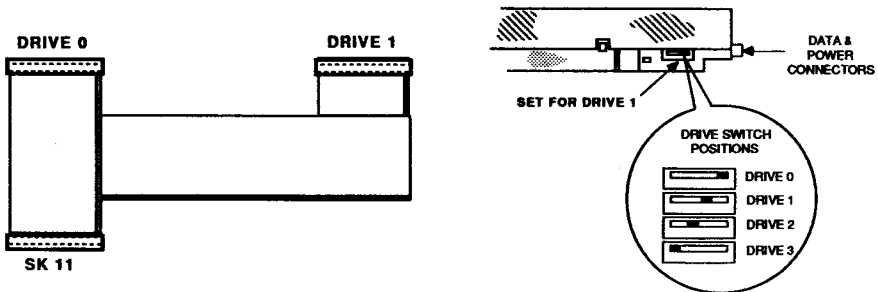


Fig.3 - Dual drive data cable details & configuring the new drive as drive 1

6. Assemble the drive to the drive bracket with 4 of the M3 x 6mm screws supplied, using the original drive 0 assembly as a guide to orientation.
7. Assemble the drive bracket to the disc drive support bracket with 2 of the M3 x 6mm screws supplied.

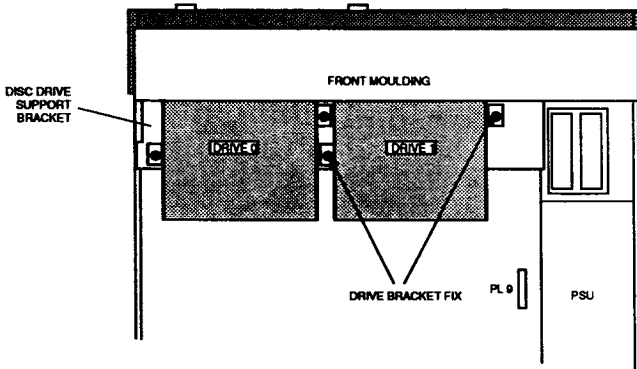


Fig. 4-Installing the new Drive 1

8. Connect the centre connector on the disc drive power cable and the end connector on the disc drive data cable to the new drive.
9. Taking the front moulding assembly, locate and remove the two self-tapping screws at each end inside the main moulding and slide the sub-moulding away from the main moulding (see Fig. 5).

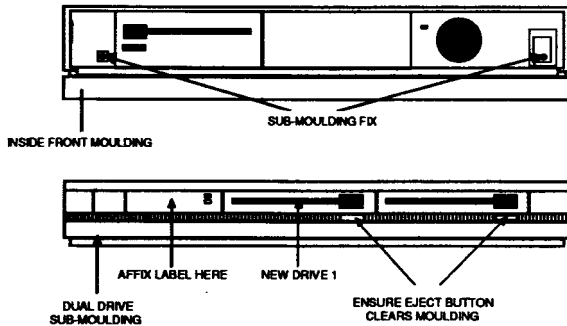


Fig. 5 - Front moulding assembly details

10. The leads from the speaker in the main moulding and the LED in the sub-moulding share the same connector. The new dual-drive sub-moulding has an LED already fitted to it. You will need to remove the existing leads from the connector and replace them with those from the new LED, as follows:

11. Using a small electrical screwdriver or similar, depress the barbs on the LED wire contacts in the LED/speaker connector (red and black wires) and withdraw the contacts from the connector, noting the polarity of the LED wires (see Fig. 6, steps 1 and 2). Place the old front sub-moulding to one side.

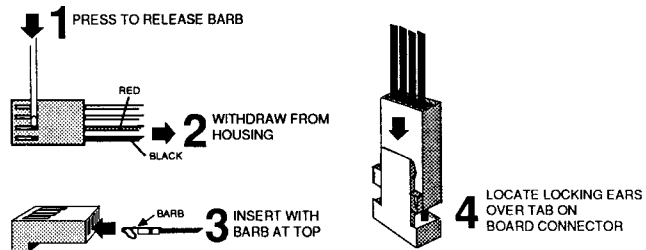


Fig.6 - Removing/inserting LED wires in LED/speaker connector

12. Offer up the new dual drive sub-moulding to the main moulding, passing the LED wires through the drive 1 aperture. Ensure that the top edge of the sub-moulding fits into the slot between the rib and the top edge of the main moulding, then secure the sub-moulding using the two self-tapping screws previously removed.
13. Insert the LED wire contacts into the LED/speaker connector so that the barbs on the contacts engage in the slots in the connector housing (see Fig. 6, step 3). Observe correct polarity - make sure that the red and black wires are the correct way round, as shown in Fig. 6, step 2.
14. Insert a disc into both drives, then offer up the front moulding assembly to the main unit, ensuring that the LED/speaker cables pass over the top of the new drive 1. The discs will aid alignment of the disc eject buttons in the apertures in the front moulding.
15. Insert the front moulding assembly fixing screws and fully tighten them. Check that both drives will accept and reject discs, that the eject buttons do not bind on the moulding and that an inserted disc clears the front moulding.
16. Provided that its position has not been disturbed, the original drive 0 should align correctly; if necessary, loosen the new drive 1 bracket fixing screws and adjust carefully for correct alignment. Tighten both disc drive 1 bracket fixing screws.
17. Plug the LED/speaker connector to PL9 on the main board, ensuring that the locking ears on the connector locate either side of the locking tab on the board-mounted connector (see Fig. 6, step 4).
18. Visually check that all is well, then refit the top cover and tighten all fixing screws.
19. Carefully fix the appropriate model label to the new front sub-moulding.
20. Reconnect the keyboard, monitor and peripherals to the computer unit. Reconnect the system to the mains supply and switch on. QUIT the desktop (if necessary), then enter:

\*CONFIGURE FLOPPIES 2

Refer to the User Guide for further guidance.