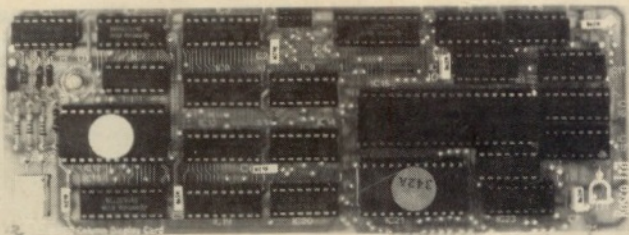




**THIS MAN HAS  
HAD HIS  
STOLEN**



**APPROVED**



## **80 COLUMN II**

For the user with the older Apple II, II+ or EUROPLUS models, the 80 COLUMN II card is essential for many applications. The card gives a full 80 column display with upper and lower case characters (from a standard keyboard!) and many text editing features. The on-board firmware gives all standard characters as well as special graphic symbols in normal or inverse display. The card is supplied with the appropriate monitor lead and optional video-changeover slot switches are available.

80 COLUMN II ROS 105 ..... **£54**  
SLOT 40/80 SWITCH ROS 101 ..... **£12**



**Rosco Ltd**

**Tel: 021-356 7402**



Note: To get graphics characters, type CTRL-Z followed by

CTRL-?

↓  
(any letter)

SOFT-SWITCH FOR THE ROSCO SCREEN 80  
=====

**\*\*INSTRUCTIONS\*\***

1. Turn off the Apple and remove the cover.
2. Locate the chip 2nd down from the games connector on the right-hand side of the main board. It is in position F-14 and is marked either as a 9334 or a 74LS259.
3. Carefully remove the chip using a small screwdriver or ideally a chip puller. Set the chip aside for re-use.
4. Carefully push the SOFT-SWITCH into the now vacant chip-holder ensuring that the screened cable is nearest the keyboard.
5. Take the chip you removed from position F-14 and carefully push it into the vacant socket on the SOFT-SWITCH board. Take care that the notch is towards the keyboard.
6. Plug the FOUR wire cable from the Soft-switch board onto the 4-pin connector (video) at the rear right corner of the main Apple board. The two tabs on the brown four way plug should be pointing to the rear of the Apple.
7. If you have a Euro-colour card (PAL) fitted then the block which you have had to disconnect from the above connector on the mother-board should be fitted to the Soft-switch board. The black (Ground) wires of this connector should be on the right hand of the 4-pin connector on the Soft-switch board. See diagram overleaf.
8. The two-wire connection from the Soft-switch should be plugged into the SCREEN 80 card, and the video lead displaced from the SCREEN 80 card is plugged into the Soft-switch. This shown is in the diagram overleaf.
9. The video lead from the Soft-switch is then plugged into your monochrome monitor lead as if for 80-column only.
10. After checking all the connections and the orientation of the chip, switch on.
11. Type PR#3 (assuming 80-column card in slot 3) and you should have an 80-column display. RESET will drop into 40-column mode. Any difference in contrast between modes can be evened out by adjusting the trimmer on the Soft-switch with a small screwdriver. When satisfied with the levels replace the lid of the Apple.

Entering GRAPHICS modes will automatically switch off the 80-column card. Any programs designed to do so will automatically switch on the 80-column card, as will booting a CP/M disc or PASCAL.