Avolites Ltd.
Engineering Change Notice

Title	Borris2 Multiple Key Presses
ECN No.	ECN-0100
Equipment:	Borris 2 Mother Boards in Pearl 2000
Serial Nos.	Desks PRL-786 to PRL-831 inclusive
Date:	30/10/98
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Revision:	1.0

Reason for ECN: Desk can receive multiple key presses from the Program Panel. E.g. When the 'RUN AVOS II' code is entered 68340 – upon pressing the 0 previous digits are overwritten with 0's. A similar problem can occur when inputting DMX nos. during patching.

Parts Required: 1 x 1K sil network. AVO part no 06-02-0015. These contain 8 1K resistors in a 9 pin package

Specialist Tools
Required: Soldering Iron, Solder sucker.

Work Required:

1. Undo 5 Dzus fasteners which secure front panel and lift. (hinge is at front of desk)
2. Remove 4 screws at rear of desk which secure output panel to desk chassis.
3. Remove all cables to mother board. Labelling them if necessary.
4. Remove screws which secure mother board to base of desk. There are usually 2.
5. Slide mother board approx. 5mm towards rear of desk to free it from fixing posts.
6. Lift mother board and remove through rear of desk.
7. Remove 330R resistor network RP30 and replace with 1K network (usually marked 102). The common pin is indicated by a dot on the network and this should be connected to the point marked 'VCC' on the mother board. RP30 is next to the 'Read Keys Buffer' IC304 which is near to a 40 way connector and the AVO logo on the board.
8. Re-assemble in reverse procedure.

Temporary fixes:

A. Replace IC304 74<u>HCT</u>245 (Read Keys Buffer) with a 74<u>HC</u>245.

<u>Or:</u>

B. Without removing the mother board – break off resistor network RP30 by moving from side to side. Solder 1K pull up resistors to the Key Read lines KR1 – KR8 (or directly to pins 2 – 9 of IC304). Connect other end of resistors to VCC.