



TN#80 INSTALLING MO2G & MO3G OPTION IN REV-H 1000 FAMILY

1. Save the contents of the program memory. Use a PC and the Builder software to do this. Changing the internal memory will require resetting the system, thereby erasing the contents of all memory.
2. Remove power connections to the unit.

-WARNING-

DISCONNECT POWER FROM THE MODEL 1000 BEFORE ATTEMPTING TO REPLACE THE ROM (FIRMWARE). OPERATING ON A LIVE UNIT WILL CAUSE DAMAGE AND VOID THE WARRANTY.

3. Carefully unscrew the top two screws and each of the screws on the side of the unit.
4. Lay the unit down on a soft, clean surface.
5. Remove the front casting cover by carefully lifting it off the unit, and to the right. Disconnect the white cable leading to the display.
6. Position the cover to the side of the unit, being careful not to stress the internal cables.
7. Remove the old GAL chip from location U12. (Note figure one and two.)
8. Insert the new GAL chip into location U12. See Figure 3: Orientation of the chip is very important. Note carefully the position of U12 and the orientation of the RAM. Check carefully for bent or damaged pins. Do not force the chip excessively into the slot.

IMPROPER ORIENTATION OF U12 WILL DESTROY THE RAM, AND POSSIBLY CAUSE DAMAGE TO THE UNIT.

8. Reconnect the white display cable, replace the front panel and the four screws.
9. Connect a computer running the builder software to the unit via the supplied null modem cable. Alternatively you may connect an IBM XT keyboard to the KEYBOARD connector. Make sure that the keyboard is an XT (not AT) compatible keyboard.
10. Re-connect power to the unit. If the display does not come up displaying the sign-on message, remove power **IMMEDIATELY** and review the orientation of U12. Reset the unit by selecting Reset Series 1000 from the builder software, or you may press CNTRL, ALT, and DEL keys on the IBM KEYBOARD simultaneously. This will reset the unit, and normal operation will begin.
11. Check the installation by pressing HELP followed by F4 (SYS). The memory option should show 64k if you have installed the M02, 128k if you have installed the M03.
12. If the memory option only shows 32k, or the display does not come up displaying the sign-on message, remove power **IMMEDIATELY**. Remove the cover and recheck the installation of the chip.
13. Reload the program, if saved as in step one.

Figure One:
GAL chip U12 location

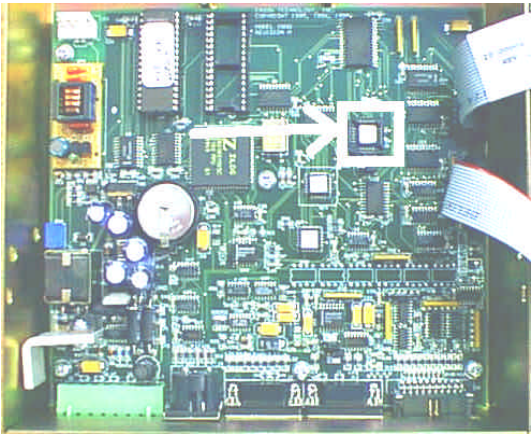


Figure Two:
Removing Chip

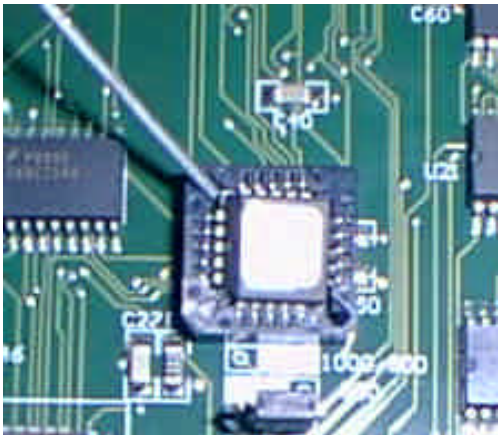


Figure Three:
Chip Orientation

