

The new Rev 4.1D BIOS for the 2000 Family gives the ability to adjust the display contrast from the user interface when the project is built with WinBuild 2000 software Rev 3.2 or higher.

This upgrade process will require:

1. Rev 4.1D BIOS specific to your hardware. (Monochrome, Color, 2MB, 4MB, Floppy options all require a very specific version of the BIOS.)
2. BIOS extraction device. (Small paperclip or chip pulling tool)
3. Small flathead screwdriver to adjust contrast pot.
4. Keyboard attached to 2000 Family unit.

First, you will need to remove the old chip:

1. Remove power from unit.
2. Remove can from rear of unit. Model 2300, 2500 may need to have the entire can removed. Model 2550, 2750 can easily be accessed just by removing a few of the option panels from the rear.
3. Use the extraction tool to remove the BIOS from U32.
4. Remove the battery cable.
 - a. Model 2300, 2500 the battery is located on the motherboard.
 - b. Model 2550, 2750 the battery is either located below the power supply (old rev) or attached to the sheet metal on the right-hand side. (new rev)

Install the new BIOS:

1. Install BIOS
2. Apply power to unit
3. Hold down DEL key on attached keyboard as unit boots to enter the SETUP screen.
4. Select "Reset to Factory Defaults"
5. Hit "ENTER", and unit will reboot.
6. Hold down DEL key again to re-enter SETUP screen.
7. Go to "SET LCD CONTRAST" option.
8. Hit the <SPACE> bar on the attached keyboard to reset to default.
9. Adjust contrast pot R99 for optimum viewing- Pot is very sensitive!!
10. Hit ESC to exit.
11. Set time/date in BIOS. (in Basic Setup)
12. Reconnect battery cable.
13. Select "WRITE TO CMOS & EXIT."
14. Power down unit, and wait ~60seconds.
15. Cycle power back on,
16. Hold down DEL key again to enter BIOS setup, and check time under "Basic Setup" to make sure time settings stayed.

Note on BIOS with floppies: Once the battery has been installed, fdisk must be run to format the battery backed drive: C. This is because the floppy system reverts the battery backed ram disk to a hard drive. It MUST be fdisked and formatted with the FDISK.EXE and FORMAT.COM programs otherwise it will look like it is formatted but when you turn the power off and back on, the data stored on it will be lost.