Application Notes

Question/Issue:

I press the power button on my AD-8000 and none of the front panel lights turn on. I hear a relay clicking but nothing else happens. When I remove the cover, the only light is a small red LED towards the front left-hand side. What's going on?

Answer:

It is likely that the main EPROM is inserted incorrectly. The AD-8000's firmware is upgraded by replacing the main EPROM with the most current EPROM available from Apogee (check the Apogee Web site, http://www.apogeedigital.com, for the latest information).

Do not attempt to perform this operation unless you have experience replacing EPROMs; take the unit to your dealer for EPROM replacement.

When removing the top cover to install a DAC2/DAC8 or to replace the main EPROM, be sure to make note from which hole each screw is removed. Earlier units have smaller screws along the front edge that should be replaced in the same holes from which they were removed. If your unit has different sized screws, do not attempt to put the long screws in the holes along the front-edge. This will damage the front panel PCB.

The main EPROM is a 32 pin chip located on the digital circuit board (the circuit board closest to the front of the unit) at PCB designator "U37". When viewed from the front of the unit, it is to the left of the power supply transformer. Notice that the installed EPROM has a cutout or "notch" on the right edge. When you remove the EPROM, you will notice that the socket underneath also has a notch on the right side. When installing the new EPROM, be sure to line up the notches. If you install the EPROM with the notch facing left, the AD-8000 will not power on.

To remove the old EPROM, use an EPROM removal tool; DO NOT USE A SCREWDRIVER OR OTHER DEVICE TO PULL THE EPROM UNLESS YOU HAVE EXPERIENCE DOING THIS. You can potentially damage the PCB and socket underneath. Be aware that damage caused by any handling of the internal components is not covered by the warranty. Hold the EPROM removal firmly and pull straight up. If the EPROM does not budge, gently pull from one side until it loosens and then from the other. Do not pull it completely out by one side.

To install the new EPROM, line up the pins with the holes and insert the EPROM into the socket lightly. Now check that all of the pins are in the appropriate hole and that the EPROM is parallel to the circuit board. Push down the EPROM with both thumbs until it snaps into place. The EPROM should sit in the socket parallel to the circuit board.

EPROM