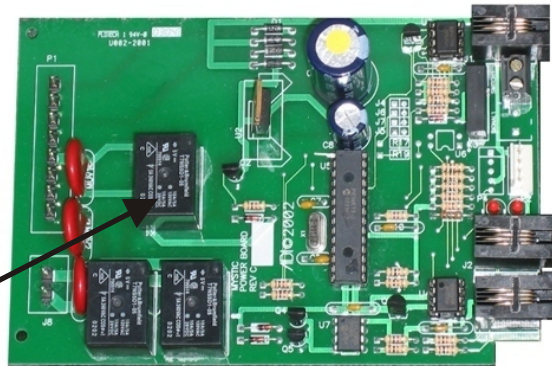


Tmax Timer - Phantom level 2

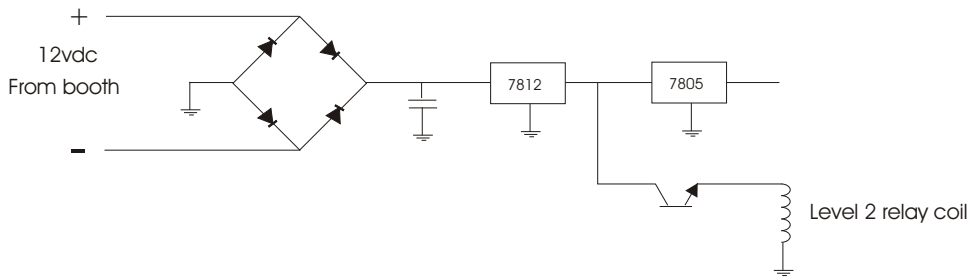
On some early units, the level 2 relay had a 12vdc rated coil. This provided an unreliable switching situation which resulted in a 'Level 2' tan to not being recognized by the booth. ADI have subsequently replaced this relay with a 5vdc rated coil, effectively resolving this problem.

The 12vdc relay had a part number of JTN1as-PA-F-DC12V
The current 5vdc relay is part number T7NS5D1-05

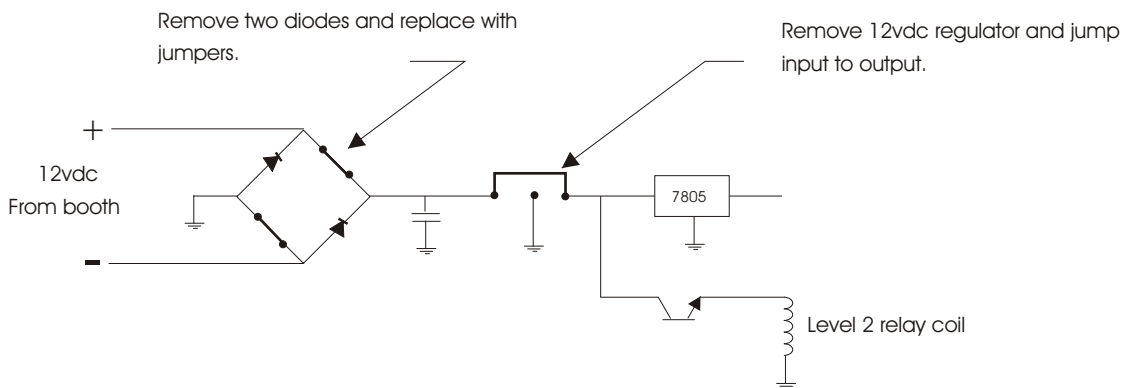


If Mystic Tan will not replace your Power board to overcome the phantom level 2 problem, here is a fix you can perform to keep things working. First, let's look at the problem.

The Power board is fed 12vdc from the mystic booth. This supply is then fed through several devices, all of which drop voltage, before it is switched onto the 12vdc relay coil. The result is a voltage that is incapable of pulling in the relay. A basic schematic is shown here.



As we can see, having the 12vdc pass over the rectifier, the 12 volt regulator, and then the switching transistor, causing excessive voltage drop. We can eliminate this problem by carrying the booth 12vdc over the rectifier, to the output side of the 12 volt regulator. The 12 volt regulator must be removed and the booth 12vdc and common jumpered over to the regulator. The easiest way to perform this is to replace two rectifier diodes with hard jumpers, and jump the input to the output of the 12vdc regulator.



Notice

The above information is for your consideration only. We recommend that any work performed be done by qualified persons. We will not be held responsible for the results of any work performed by way of consideration or implementation of the above information