

STACKER LED PANEL CONVERSION INSTRUCTIONS

Suzo-Happ P/N 49-2926-00



CAUTION: It can sometimes be very difficult to de-solder and remove components from printed circuit boards without the proper tools and a fair amount of experience. If you don't feel comfortable doing this conversion, STOP before you permanently damage the circuit board and bring it to a professional to do for you.

Step 1: Remove the panel assembly from the rear of the cabinet. Disconnect all wiring harnesses and remove the screws from the sides of the mounting brackets and remove as one assembly.

Step 2: Remove the three panels from the side brackets. You will not be re-using the mounting screws. You will be re-using the side brackets.

Step 3: Remove all 35 light squares from each LED panel. The easiest way to do it is by using 2 soldering irons. One tip on each lead and the squares should just fall out. De-solder all holes.

Step 4: Remove all 35 resistors and replace with the 47 ohm resistors provided. The easiest way to do this is to first unsolder the lead that goes to the LED square and gently pull it out of the board with needle nose pliers or a similar tool. Now you can grab that side of the resistor and pull up on it while you heat the other side of the lead. This lead might require a little more heat and time. It can be stubborn. BE GENTLE... You can easily rip out a trace or two while doing this if you are not patient.

Step 5: Install and solder the 47 ohm resistors provided.

Step 6: Install the replacement LEDs. The anode (long lead) goes to the resistor side of each circuit. Install a nylon spacer between the LED and the circuit board before inserting and soldering the LEDs. All 35 LEDs are inserted in the same direction. **See Fig.1 and Fig. 2**

Step 7: Notch the center set of holes on each panel. **See Fig. 3.** We use a nibbling tool but sharp cutters or a hack saw will suffice. The notch provides for proper alignment of the board when re-installed. It will also allow you to remove each panel individually from the game in the future if necessary. The center holes will be the only mounting hole on each panel the 4 top and bottom holes will just be sitting on the metal spacers to be installed next.

Step 8: Refer to **Fig.3 and 4** to install the 18 SPACERS, WASHERS and NUTS to the left and right mounting brackets. The middle 2 spacers on each set of boards are opposite from the top and bottom set. You can see that on the middle 2 SPACERS, the thread is facing up so that it can go through the elongated hole in the LED board.

Step 9: Tighten all hardware. Install the brackets into the game without the boards attached. You can now mount the LED boards to the brackets using only the 2 middle studs and nuts provided. Center the boards from left to right, tighten the mounting nuts, re-connect all wiring and you are done.

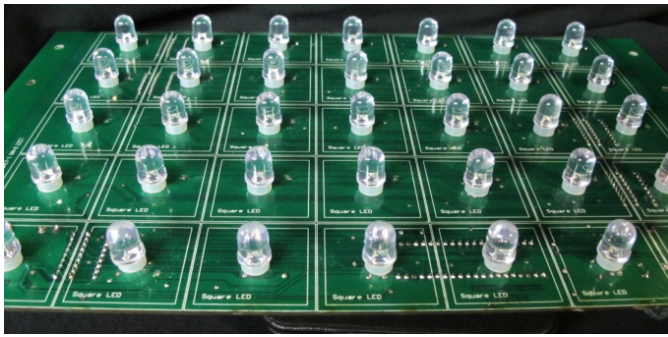


Fig. 1

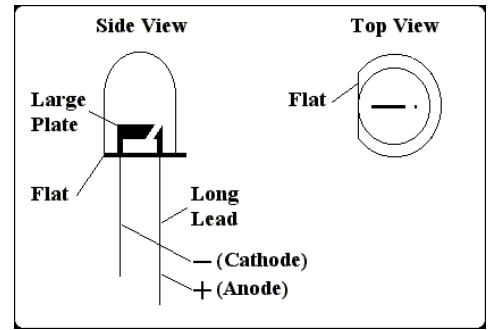


Fig.2

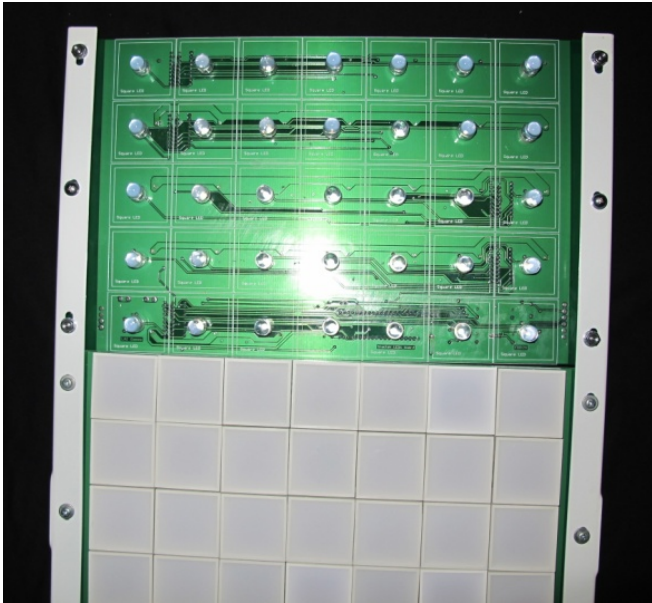


Fig. 3

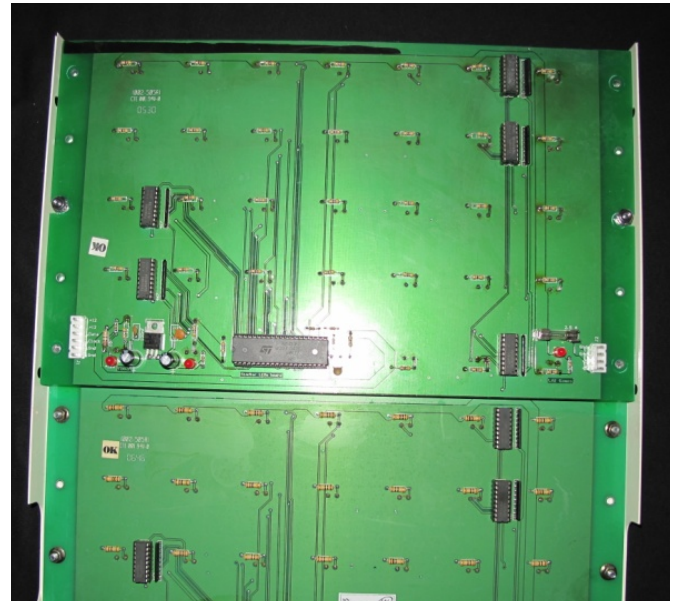


Fig. 4

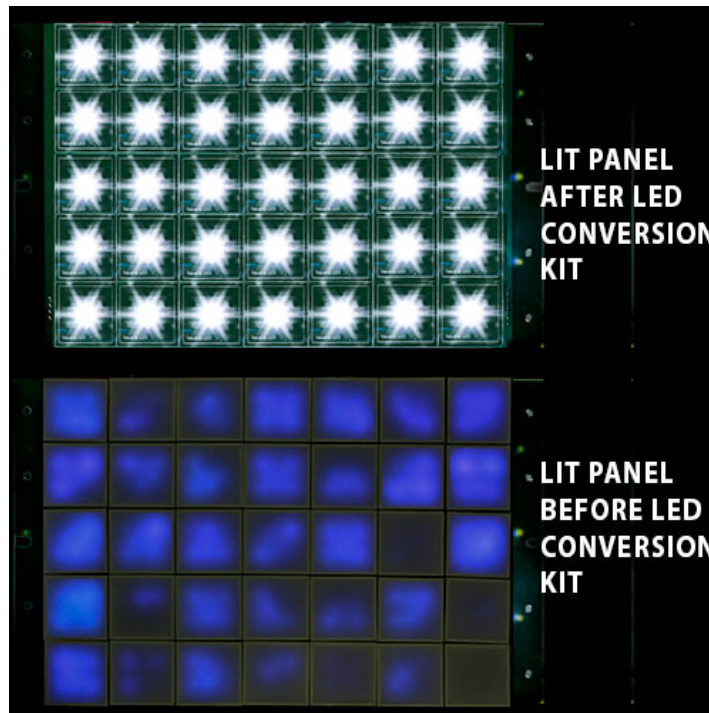


Fig. 5