

ROLAND S-760 ROTARY ENCODER REPLACEMENT

A common problem with the Roland S-760 is a jittery, jumping or non-working rotary encoder. I've been unable to find any rotary encoder replacements with a 30mm shaft like the original ALPS brand because it was a custom made part for Roland. The longest one available in the Bourns encoder series I'm using is 25mm. Also, the pin arrangement is different from the original ALPS brand. This common 25mm encoder won't fit onto the original S-760 encoder board so I designed a new PCB for it. Encoder is Bourns P/N: **PEC11L-4225F-S0015** available from Mouser and Digi-Key

To make this new PCB and encoder work, cut the five wires from the original encoder board. Cut them as close to the edge of the blue connector as you can... near the PCB. Strip off only 2mm of insulation from each end. Solder these five wires onto the new encoder PCB in order from #1 to #5 with the Yellow Wire starting at the hole marked #1. Solder them onto the backside with the Llamamusic logo

You will need to use a very small piece of metal or a small bolt 4mm x 7mm to act as a spacer between the knob and the shaft. Don't use a screw with a sharp point because both ends need to be flat. This extra metal spacer ensures that the knob sticks out far enough from the faceplate as before. Remember, this knob is pressed over and over again so be sure to use a **metal** spacer. A dab of silicone adhesive is recommended, especially if the original knob was loose to begin with

