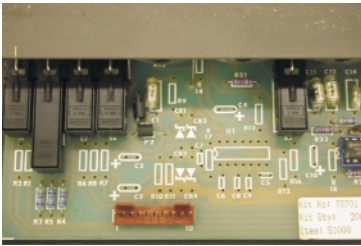


Scorpion Line Input Modification

Fitting Instructions - Issue 1.1



Carefully remove U1 (SSM2015) from its socket - Note that it is a static sensitive device and should be handled and stored appropriately.

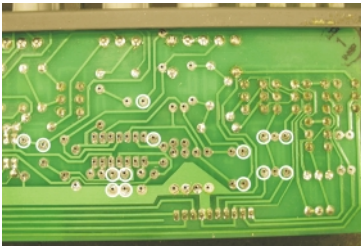


Carefully remove the following components

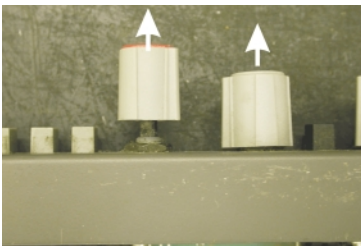
Resistors; R1, R2, R6, R7, R8, R9, R10, R11, R12, R13, R14, R16, R17, R18

Capacitors; C2, C3, C4, C5, C6, C7, C8, C9, C10

Diodes; CR1, CR2, CR3, CR4

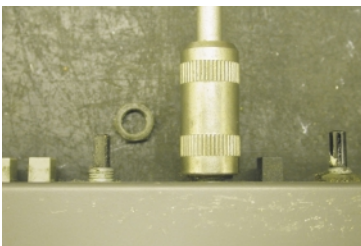


Ensure that the holes highlighted are free from solder

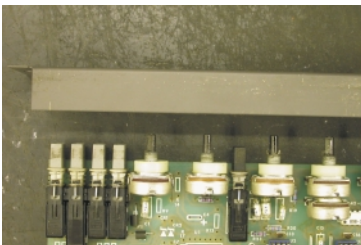


Carefully remove the knobs by pulling them off

{They should come off quite easily - If they do not pull off easily then remove the coloured knob cap and check to see if they are "collet" knobs with a nut inside the knob}

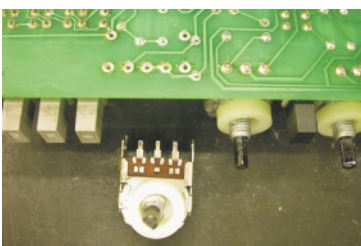


Remove the pot nuts with a 10mm nut runner



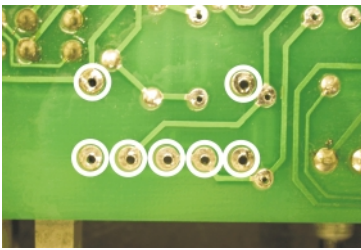
You should now be able to pull off the faceplate

{Be careful not to lose the white plastic washers on the pots.... Some of them may be stuck to the back of the faceplate}



Remove the mic gain pot and desolder the holes.

{Be careful not to damage the circuit board..... If necessary destroy the pot as they only cost a few pence.... The circuit board is irreplaceable...}



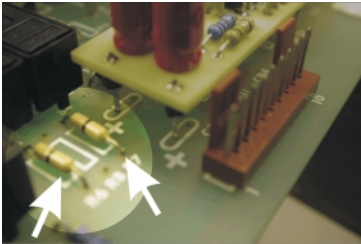
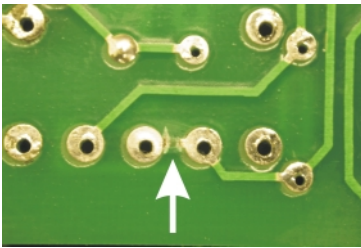
Ensure that the holes highlighted are free from solder

Using a sharp craft knife, cut the track which connects the 2 pins of the pot (pot wiper and pot bottom) as indicated.

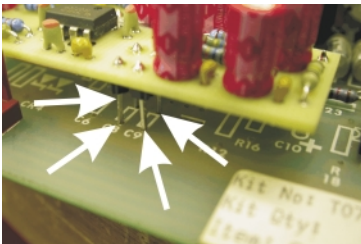
{Check with an Ohmmeter to ensure that the cut is successful}

Fit the new replacement pot.

Re-fit the faceplate and knobs

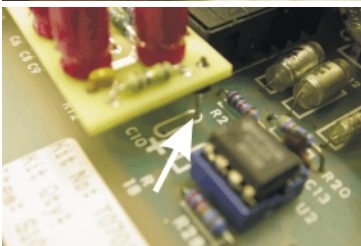


Fit the zero Ohm links in the R6 and R7 positions

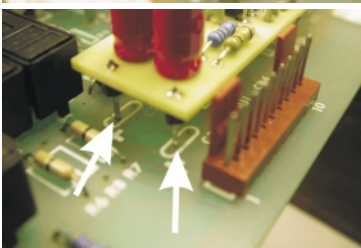


Fit the line input module into the PCB- the pins should line up with the positions indicated - press all the way down onto main PCB

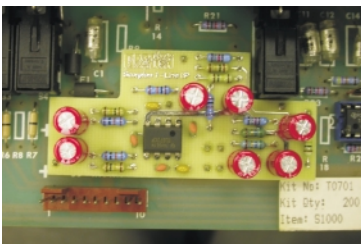
{If fitting to a Scorpion II input module the 2 of the pins will need to be moved into the "alternative locations"}

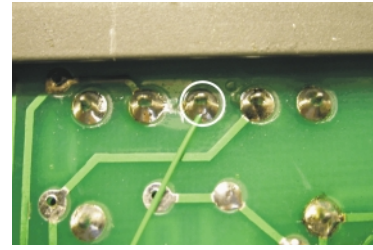
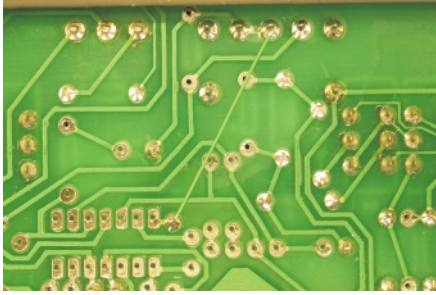


Solder the module in place and cut off the excess pins



It should look like this.....





Fit a wire link between the wiper pin of the pot and the pad attached to U1 pin 14 (SSM2015)...

{Keep the wire as short as possible}



Change of PAD from -20dB to -10dB

Carefully remove the following components;

Resistors; R3, R4, R5 Capacitor; C1

Replace R3 and R4 with the 4k7 resistors provided

Replace R5 with the 3k9 resistor provided

Replace C1 with the 220pF capacitor provided

This change is highly recommended as it also corrects the pad impedance for use with a line input signal.

Replacement of Electrolytic Capacitors

Carefully remove the following components;

Capacitors; C22, C24, C25, C26, C27, C29, C30, C31 & C32

Replace C22, C24, C25, C26, C27 & C29 with the 100uF / 25v capacitors provided

Replace C30 with the 2u2F / 63v capacitor provided

Replace C31 & C32 with the 220uF / 25v axial capacitors provided

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