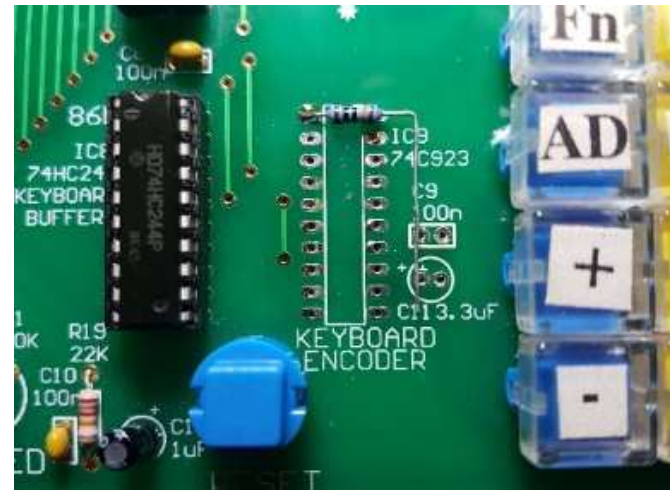


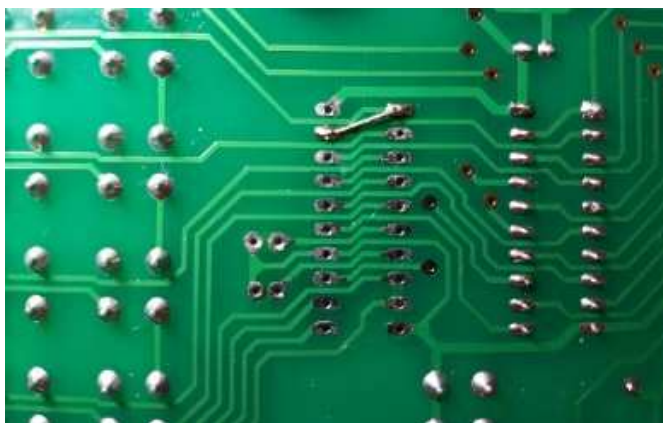
This procedure describes modifying the Southern Cross Computer, all PCB versions, to allow the use of a software scanned keyboard instead of the 74C923 Keyboard Encoder.



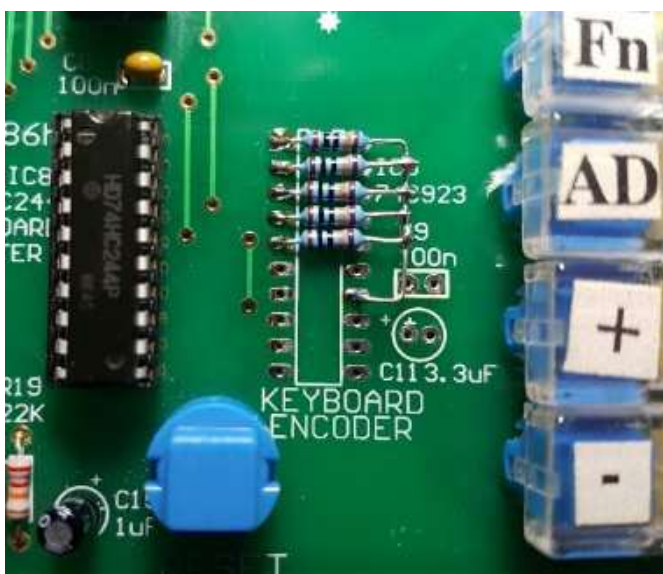
Connect the Y keyboard matrix lines (Y1 to Y5) to the Keyboard Buffer, IC8. Add pull down resistors to each input.

Bend one end of a 100k resistor lead at 90 degrees about 5mm from the end.

Bend the other end and poke it through the Pin 1 (Y1) pad, solder the resistor on the top side as shown.



Bend the resistor leg and solder to the Pin 19 (A) pad on the bottom side of the board.



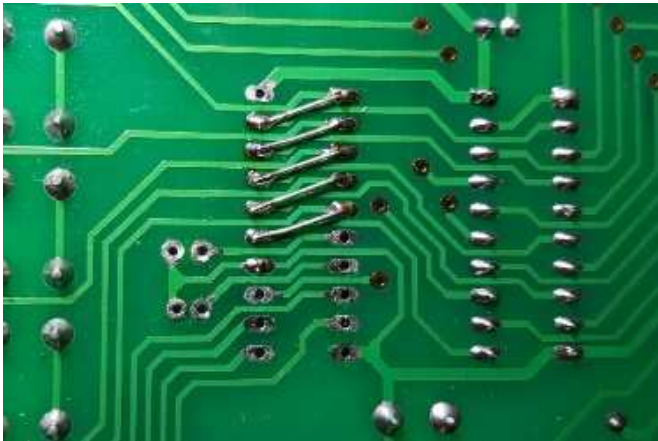
Repeat for;

Pad 2 (Y2) to Pad 18 (B),

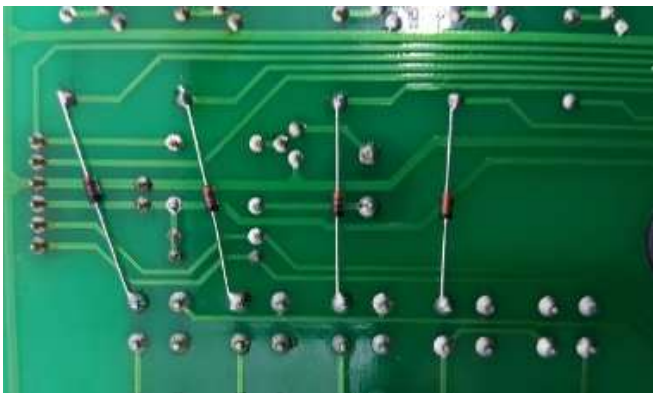
Pad 3 (Y3) to Pad 17 (C),

Pad 4 (Y4) to Pad 16 (D)

and Pad 5 (Y5) to Pad 15 (E), trimming the excess lead and soldering to the previously bent right angled lead. Connect the common lead to the Pin14 pad (GND).



Trim and solder the leads on the bottom side of the board as shown.



Connect four 1N4148 diodes from the base resistor to the keyboard buttons on the bottom of the board as shown.

Connect the Anode to the junction of IC4 pin 2 (D0) and R7 and the Cathode to the top left of the '3' button.

Connect the Anode to the junction of IC4 pin 5 (D1) and R6 and the Cathode to the top left of the '2' button.

Connect the Anode to the junction of IC4 pin 6 (D2) and R5 and the Cathode to the top left of the '1' button.

And finally connect the Anode from the junction of IC4 pin 9 (D3) and R4 and the Cathode to the top left of the '0' button.