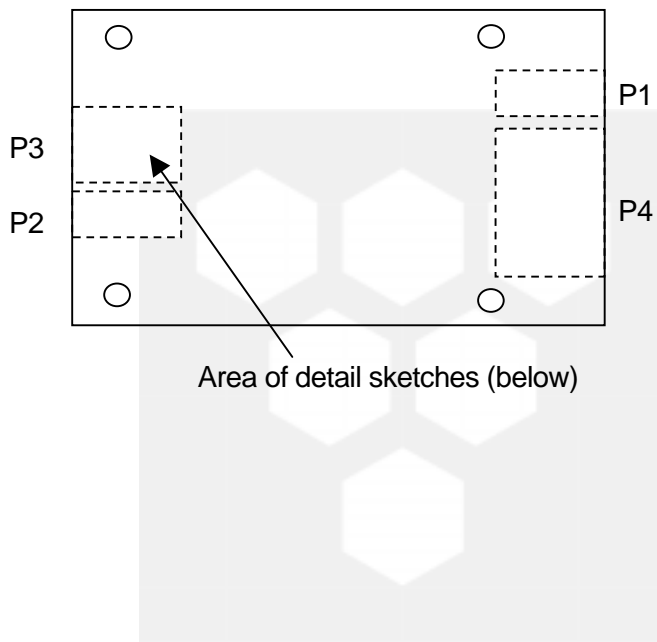


Installation instructions for 3K resistor – the resistor prevents TT8 crashes caused by communication cable connect/disconnect transients.

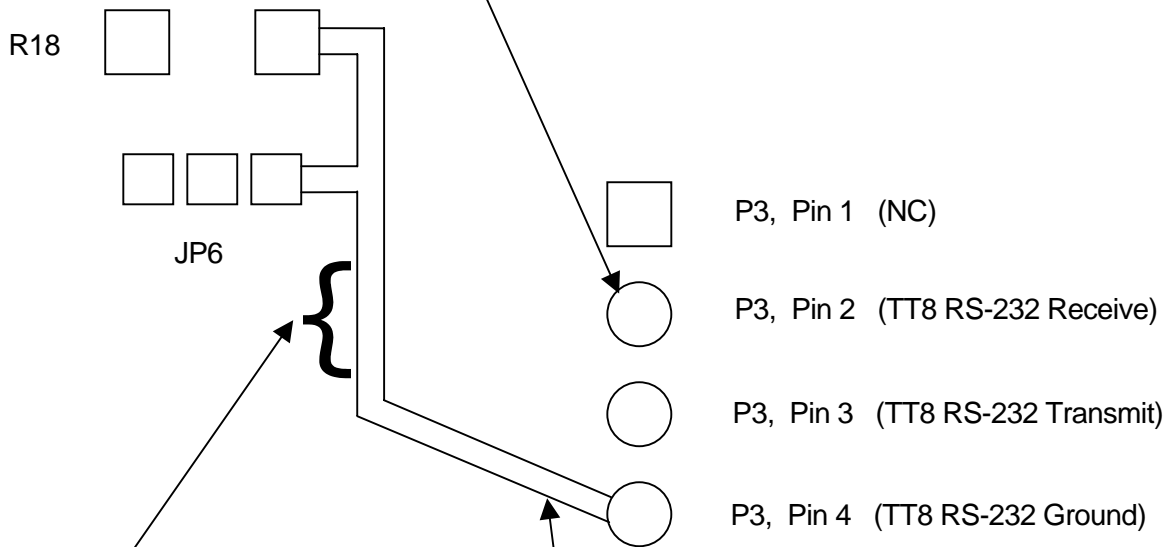
Underside of the McLane AUX/STEP board

The connectors shown by the dashed lines (P1 to P4) are mounted on the topside of the board. All work will be performed on the underside of the board. All views are of the underside of the board.



Detail Sketch 1

Action 2: Remove the bulk of the solder from around P3, Pin 2. Use de-soldering braid or mechanical equivalent. The solder must be removed to provide space for one end of the new resistor on the pad and against the pin. It is not necessary to clear solder from the via (through hole).



Action 1: Carefully scrape the green coating off of the ground trace. Clear a length of approximately 0.12 inch centered on P3, Pin 2. Use a sharp blade and try to avoid removing material from or otherwise damaging the trace.

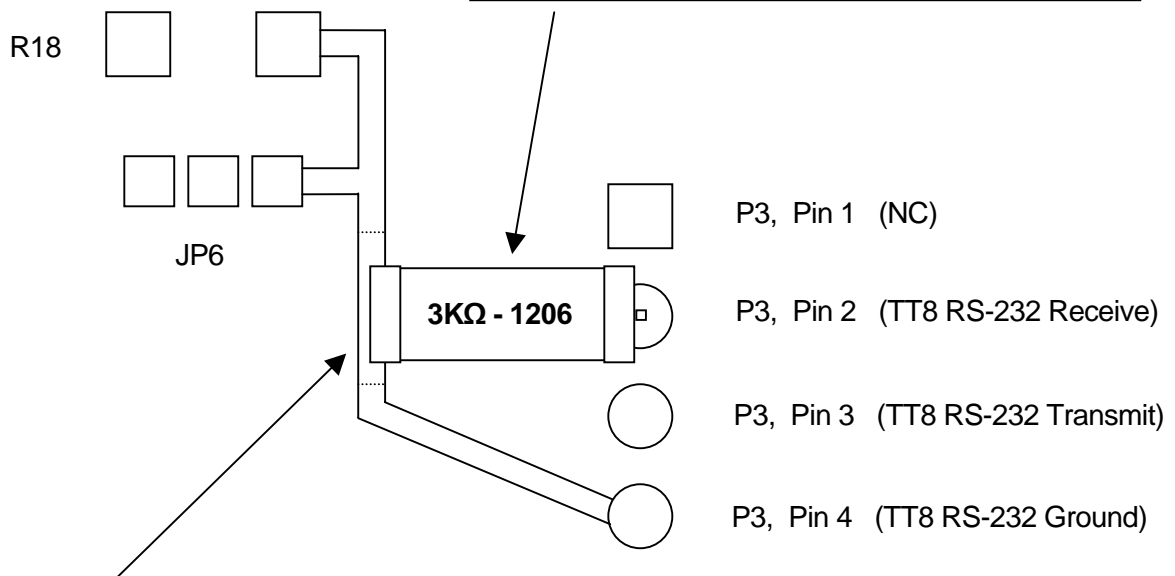
Ground trace – our goal here is to connect P3, Pin 2 (TT8 RX) to ground through a 3K resistor

Note 1: The pads for R18 and JP6 are empty in most instruments. They are part of an optional external trigger circuit.

Note 2: Only some of the pads and traces present in this area of the board are shown.

Detail Sketch 2

Action 3: Place a 3K resistor, 1206 surface mount package, at the prepared location. The resistor should be snug against the pin of P3, Pin 2 as shown. This will place the other end of the resistor on the portion of the trace from which the green coating has been removed. A good quality soldering flux will help to hold the resistor in position and will improve the quality of the soldered joints. After soldering the excess flux can be removed with isopropyl alcohol and a brush.



Action 4: Solder the resistor in place at both ends. Take particular care at the ground trace end – the wrap-around contact on the resistor is not ideally placed on the trace the way it would be on a pad. Make sure good contact has been established through both visual inspection under mild magnification and meter based continuity checks.