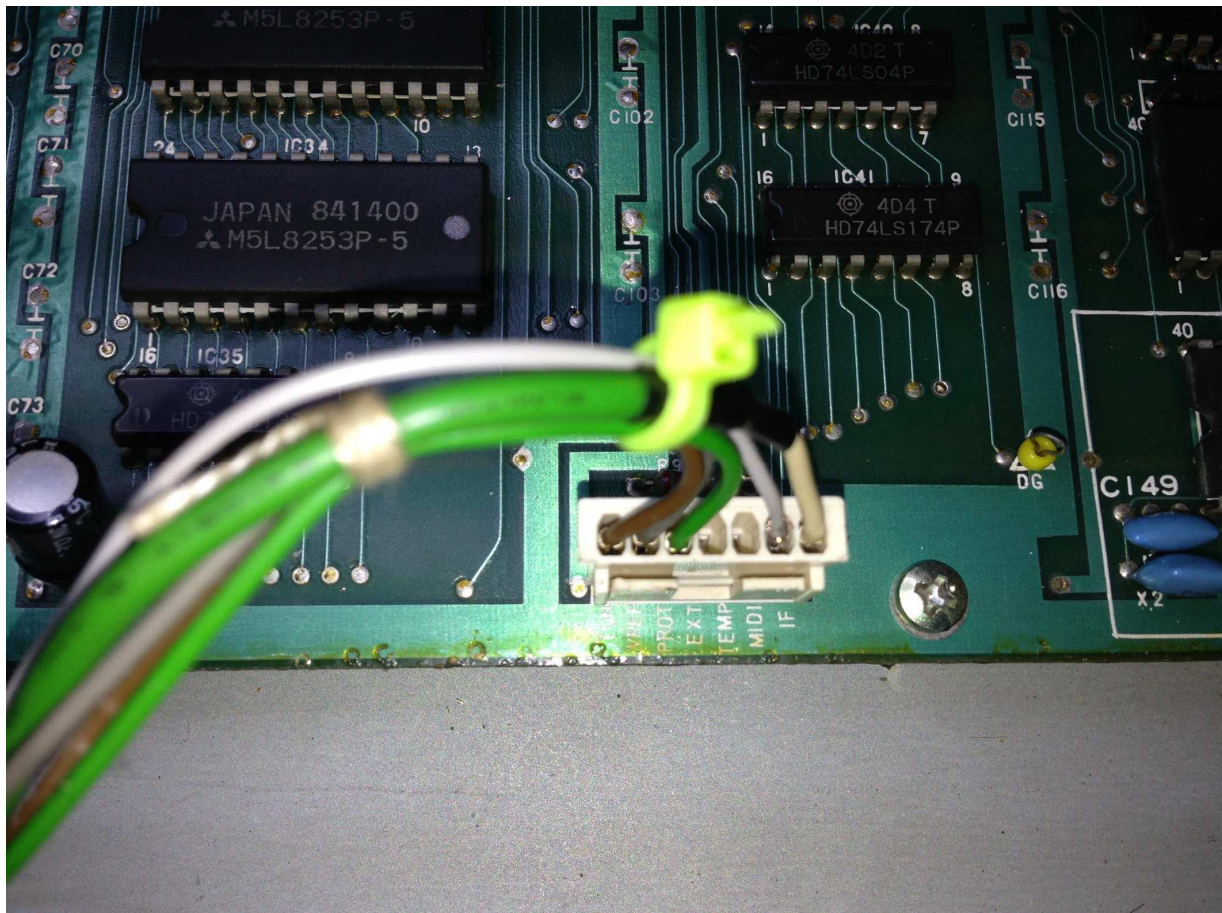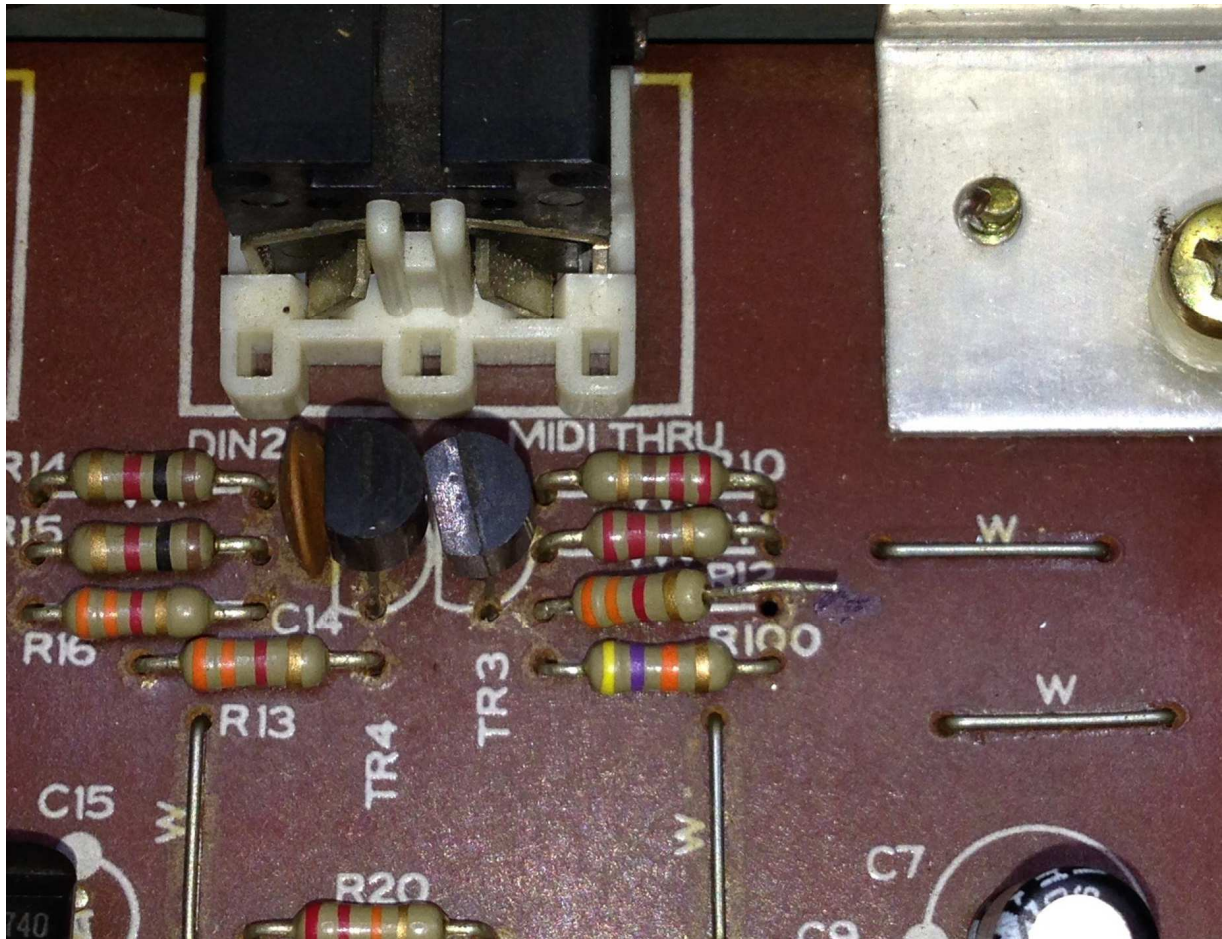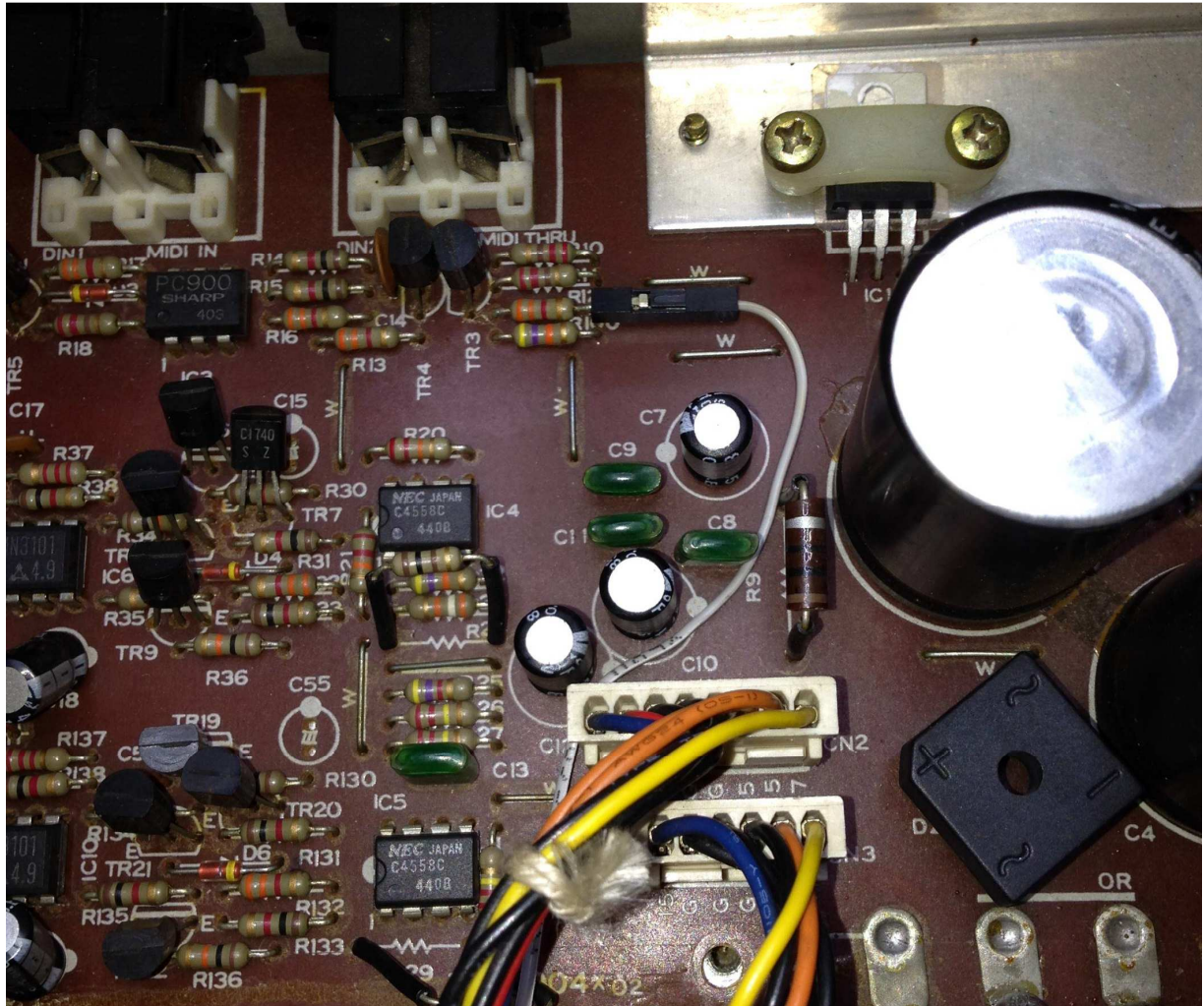MKS-30 MIDI Out Mod   R Grieb   4/21/2021

In order to save patches using MIDI sysex, you will need to modify the MIDI Thru jack to make it MIDI out instead.   (This will only be used for saving patches) The MIDI out signal already exists on the main board at CN9 pin 6, and must be routed to the jacks board with a wire. The mating connector pin was not installed at the factory. The best way to connect to this signal would be to install the missing connector pin and wire, if one is available.   Here is a photo that shows a gray wire added to connect to the MIDI out signal:

On the jacks board, you need to disconnect one end of R12.   One way is to unmount the jacks board and unsolder one end of the resistor. Here is a photo showing the resistor disconnected:

Another approach would be to simply cut the resistor lead right at the pcb, leaving enough to solder to. With the resistor lead disconnected, simply connect the MIDI Out wire to it.   A simple solder joint should be fine here, although the next photo shows a connector pin being used instead:

Route the new wire as shown on the jacks board, to keep it away from the other circuitry.