m905 Phono Option Install Guide

MATERIALS
AT171 m905 Phono Preamp Option Assembly
2x H144 #4-40 x 3/16" Male-Male Standoff
2x H162 #4-40 x 3/16" x 3/4" Hex Spacer
Ground Terminal Bracket Assembly (Optional)
2x H281 #6-32 x 3/8" Flush Phillips Stainless Screw (Optional)

TOOLS
#2 Phillips Screwdriver
T10 Torx Driver
3/32" Allen Driver
1/4" Nut Driver/Socket
3/16" Nut Driver/Socket
Tweezers or Needle Nose Pliers
Soldering Iron
Solder
Solder Wick
Isopropyl Alcohol and Cotton Swabs

PROCEDURE
1. Place the unit on a bench with the AC power disconnected. Remove the m905 top cover by unscrewing 8x #2 Phillips screws. There are 4 screws on top and 2 on each side.
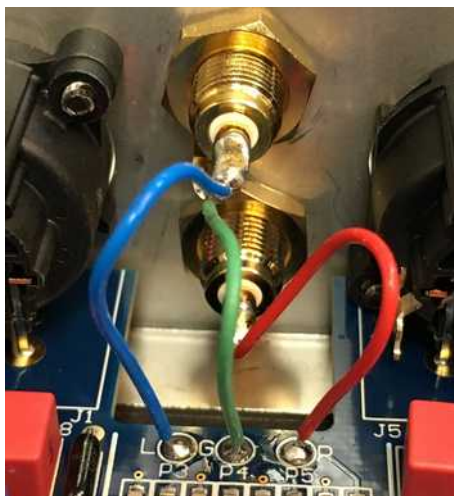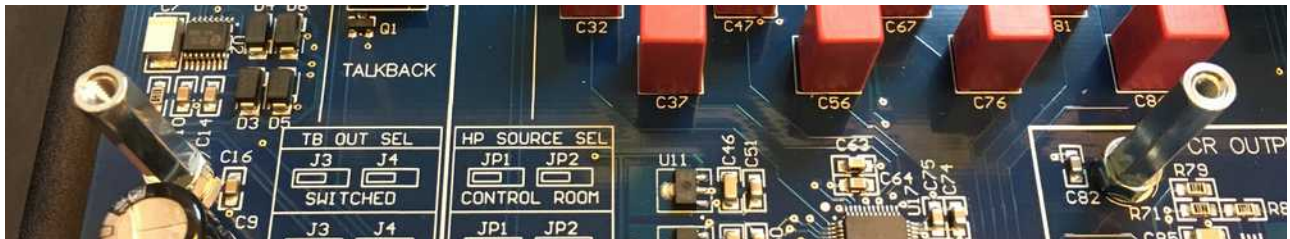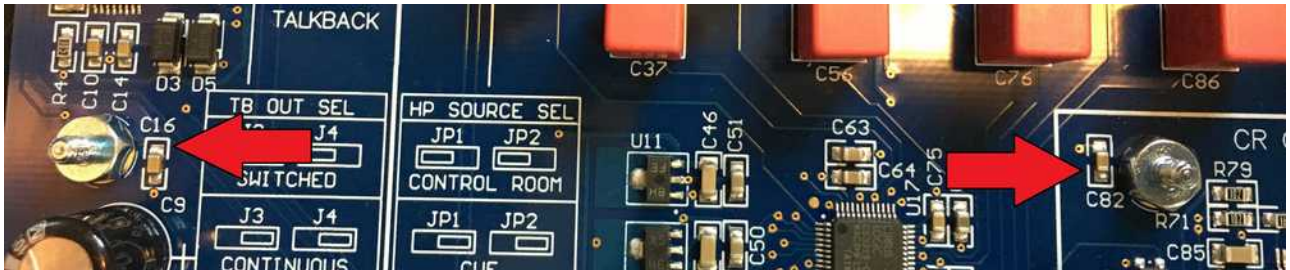
2. Disconnect the Sub/Cue/TB out ribbon cable from the m905 main board header J2, then remove the Sub/Cue/TB out board by removing the XLR screws with a T10 Torx driver.
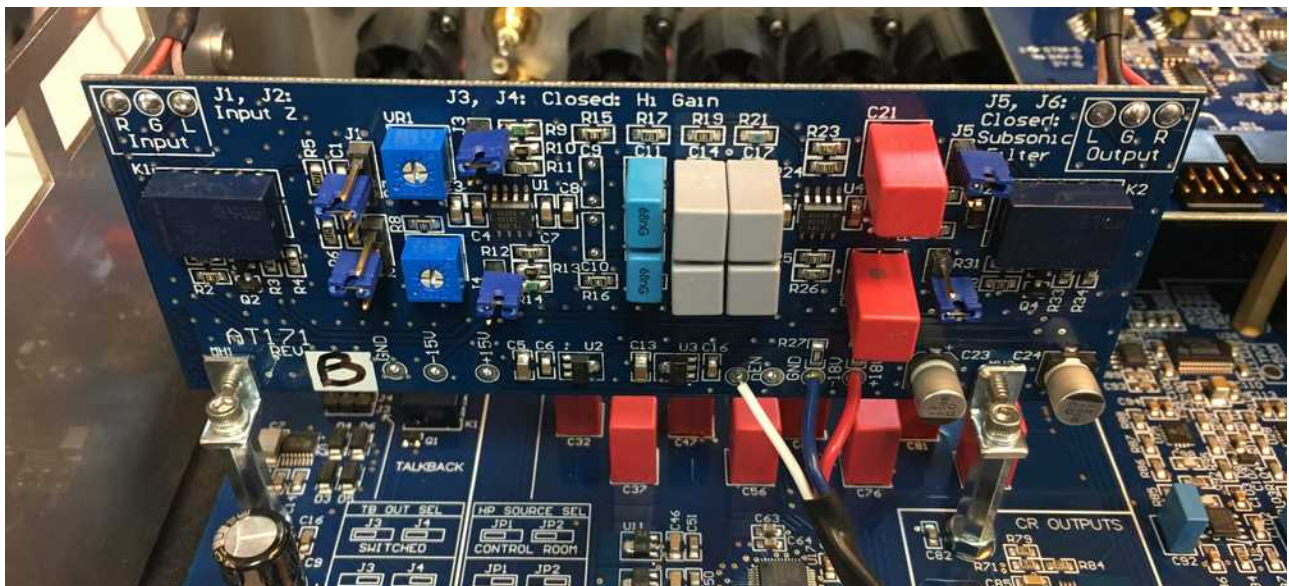

3. Unsolder the RCA input wires from the connectors and the main board. Wick up the solder to clean the PCB holes and connectors. Clean flux with alcohol and cotton swabs. Discard the wires.

4. Remove the screws at the locations shown with a 3/32" Allen Driver. Retain these screws for installing the phono option. Install the H144 male to male standoff in the screw locations with a 1/4" nut driver. **Be careful not to damage capacitors C16 and C82.** Then install the H162 spacer on to the H144 standoff with a 3/16" Nut Driver.
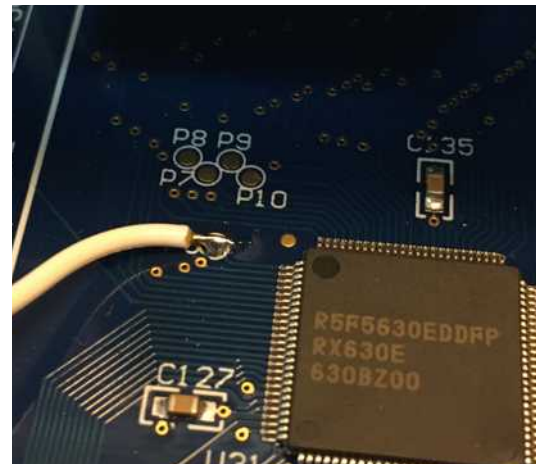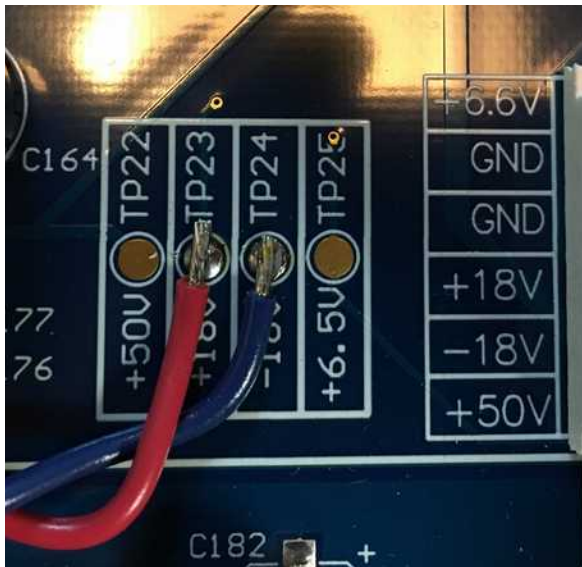

5. Mount the AT171 Phono Option Assembly to the standoffs as shown with the screws and lock-washers that were removed earlier.
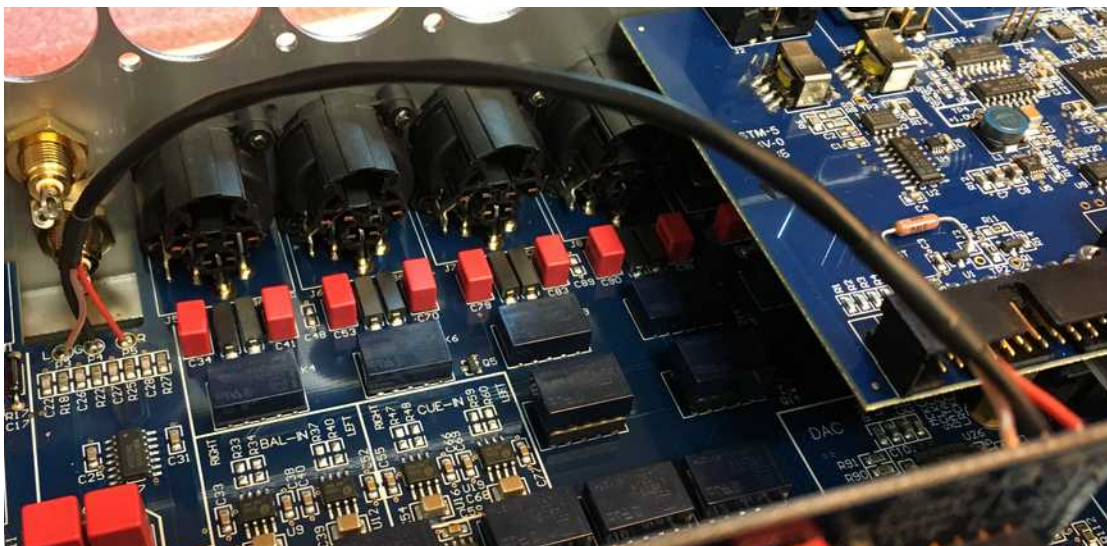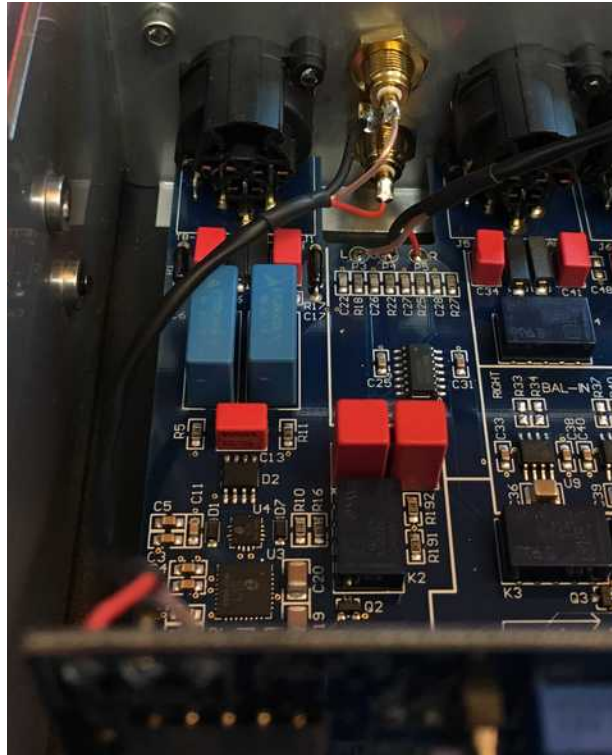
6. Solder the red power wire to TP23 +18V on the m905 main board near the power supply connector. Solder the blue power wire to TP24 -18V. Solder the white control wire to P6 which is near the main processor U31.
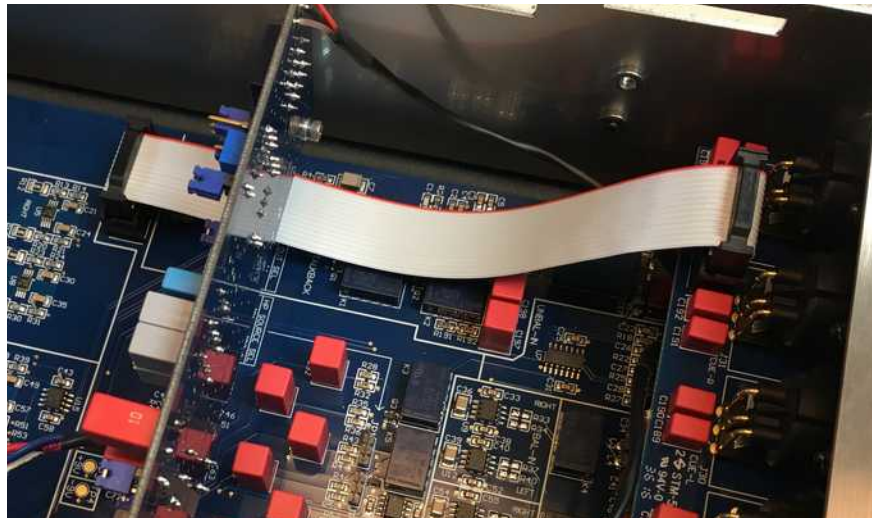

7. Solder the audio output wires to the main board where the RCA jacks used to be wired. The clear wire is L, black wire is G, red wire is R.

8. Solder the audio input wires to the RCA jacks. The clear wire connects to the top jack (left), the black wire solders to the ground tab, the red wire solders to the bottom jack (right).

9. Re-install the Sub/Cue/TB output board with the T10 Torx screws. Route the ribbon cable under the Phono board and reconnect to the main board header J2.

10. Re-install the top cover with 8x #2 Phillips screws.

11. If you don't have a ground terminal installed on your unit, install the ground terminal bracket by removing the top cover screw and bottom cover screw at the locations shown. Install the bracket using the H281 #6-32 x 3/8" flat head screws (included).

12. Update your unit to the latest firmware.

This concludes the m905 Phono option install procedure!