

**INSTRUCTIONS FOR FIELD UPDATE KIT**  
**MK121-B TO "C" VERSION**

These instructions apply only to Acoustat Magne-Kinetic interfaces that have been previously modified, or originally manufactured, with Medallion Audio Transformers.

Whereas no technical knowledge is required for this modification, the user should be reasonably competent with a soldering iron and simple hand tools. Read through the entire instructions before beginning. Modify only one interface at a time so that the other may be used as a reference. Refer to Figure One to help identify wire and parts locations.

1. Disconnect all audio feeds and AC power from the interface. Remove the interface, and discharge the electrostatic panel by pulling out the red bias lead, (grab it by the insulated wires!), and touching it to either of the thumbscrews. Then disconnect the white and blue wires.
2. Position the interface as shown in Figure One. Remove the two hex-head screws securing the printed circuit board and move the board off its posts so that the chassis mounted parts behind it are accessible.
3. Desolder and detach the two medium gauge white wires on the capacitor terminal strip.
4. Desolder and remove the 220uF electrolytic capacitor on the capacitor terminal strip.
5. Mount and solder the new 47uF electrolytic capacitor in the same position on the terminal strip as the old capacitor. Make sure that the PVC tubing is covering the capacitor leads.
6. Desolder and detach the heavy gauge red wire on the side terminal of the audio fuse.
7. Desolder and detach the small gauge black wire on the black binding post.
8. Desolder and detach all the wire connections on the High Frequency Balance resistor. The resistor has three terminals with five wires attached.

9. Remove the High Frequency Balance resistor. The two medium gauge white wires and the heavy gauge red wire from the audio fuse should now be free and should be discarded.
10. Mount the new High Frequency Balance resistor in the same position as the old resistor with the variable slider section closest to the chassis edge. Bend the mounting clips for a snug fit into the end of the resistor.
11. Solder a length of 16 gauge buss wire to the side terminal of the audio fuse. Attach, but do not solder yet, the other end to terminal A of the capacitor terminal strip.
12. Re-route the heavy gauge red wire (coming from the Low Frequency Tap) and solder to terminal A of the capacitor terminal strip. If this wire is too short, splice it with an additional length of heavy gauge red wire and cover the splice with the large diameter PVC tubing.
13. Solder a length of heavy gauge red wire to terminal B of the capacitor terminal strip. Solder the other end to terminal 2 of the High Frequency Balance resistor.
14. Splice a length of 18 gauge red wire to the small gauge red wire coming from the high frequency transformer. Cover the splice with the small diameter PVC tubing. Solder this wire to terminal 3 of the High Frequency Balance resistor.
15. Attach, but do not solder yet, the small gauge black wire coming from the high frequency transformer to terminal 1 of the High Frequency Balance resistor.
16. Solder a length of heavy gauge black wire to the black binding post. Solder the other end to terminal 1 of the High Frequency Balance resistor.
17. The wiring is now complete. Check over all solder connections and route all wires close to the chassis. Make sure that no wires touch the body of the High Frequency Balance resistor, as this part can get hot.
18. Remove the protective paper from the slider of the High Frequency Balance resistor and position the slider in the center of the adjustable region. Carefully tighten the set-screw.

19. Scrape off the old HF calibration label and apply the new label such that the "0 dB" line is centered over the resistor's slider.
20. Reinstall the printed circuit board. Be careful to route its connecting wires underneath, but not touching, the circuit board.
21. Peel off the old Blue Medallion label on the rear outside of the interface and apply the new Red Medallion label in its place.
22. Repeat steps 1-21 for the other interface.

PARTS INCLUDED (FOR A PAIR OF INTERFACES)

2	47uF ELECTROLYTIC CAPACITOR (W/PVC TUBING ON LEADS)
2	16 OHM SLIDER RESISTOR
12"	18 GAUGE RED WIRE
30"	14 GAUGE RED WIRE
10"	14 GAUGE BLACK WIRE
2	HF CALIBRATION LABEL
2	RED MEDALLION LABEL
2	SMALL PVC TUBING #9 x 1 1/2"
2	LARGE PVC TUBING #2 x 2"
6"	16 GAUGE BUSS WIRE



