Warneck Research 140B VariVib Install Rev 0.1 **PRELIMINARY**

Make sure you are working from the correct schematic for the amp that you have.

Mount unit in chassis in your preferred location.

New Style 140B amp *with* Gain Trim Pot:

1. In cheekblock, cut headphone jack GND wire at volume pot.
2. Remove headphone jack and existing vibrato pot pins from Molex connector assembly.
3. Remove old headphone jack and vibrato pot and wiring from piano.
4. Remove "LEVEL" pot from amp chassis.
   - desolder wire that goes from pot to PCB at the PCB
   - clip the wire that runs to the can cap C54
5. Remove the 1k or 1.5k resistor (R26) from the amp PCB.
6. Solder the "LAMP" wire from vibrato board into the hole R26 occupied closest to the lamp.
7. Solder the GND wire from the vibrato board to the amp's chassis GND (there should be an extra lug on one of the can caps.)
8. Solder the -32V wire from the vibrato board to either C62 (smaller can cap) or the collector of TR72.
9. Jumper RCA console speaker (+) output with the 1/4" speaker (+) output.
10. Install pots in cheekblock with plastic insulating sheets (as original Wurlitzer pots were installed)
11. Install optional LED to two wires in cheekblock. If you do not use, make sure wire ends are bent back and wrapped with electrical tape to control harness cable.
12. Check all connections carefully.
13. Adjust Gain trimmer on vibrato board for correct 'non-vibrato' volume.
14. Adjust Vtrim for max vibrato depth with vibrato cheekblock control pinned max.

Old Style 140B amp *WITHOUT* Gain Trim Pot:

1. In cheekblock, cut headphone jack GND wire at volume pot.
2. Remove headphone jack and existing vibrato pot pins from Molex connector assembly.
3. Remove old headphone jack and vibrato pot and wiring from piano.
4. Remove Resistors R38 and R39 (opt) between the +32 supply and the bulb. These are usually soldered to the bottom of the PCB and go between the landing pad with the RED wire soldered to it and the one of the bulb contacts.
5. Remove the 1k or 1.5k resistor (R19) from the amp PCB.
6. Solder the "LAMP" wire from vibrato board into the hole R19 occupied closest to the lamp.
7. Solder the GND wire from the vibrato board to the amp's chassis GND (there should be an extra lug on one of the can caps.)
8. Solder the -32V wire from the vibrato board to the -32VDC supply. This is either C51 (smaller can cap) or the collector of TR6.
9. Jumper RCA console speaker (+) output with the 1/4" speaker (+) output.
10. Install pots in cheekblock with plastic insulating sheets (as original Wurlitzer pots were installed)
11. Install optional LED to two wires in cheekblock. If you do not use, make sure wire ends are bent back and wrapped with electrical tape/heat shrink to control harness cable.
12. Check all connections carefully.
13. Adjust Gain trimmer on vibrato board for correct 'non-vibrato' volume.
14. Adjust Vtrim for max vibrato depth with vibrato cheekblock control pinned max.