# SSP-1C SOLID STATE PRE-AMP

**WARNING!** INSTALLATION OF THIS UNIT REQUIRES DIRECT CONNECTION TO THE AC POWER WIRING AND MUST BE PERFORMED BY QUALIFIED PERSONNEL ONLY.

**NOTE**: PLEASE LEAVE THIS INSTRUCTION / SCHEMATIC SET IN ORGAN

## GENERAL INFORMATION

The Trek II® SSP-1C is designed to replace the AO-15331 two tube (#56-#57) pre-amp used in Hammond® A, AB, B, BC, C, D and G consoles. The unit features a built in power supply and tremolo control circuitry for Leslie® speakers in the 122 family (models 21H, 22H, 22R, 31H above serial #5200, 122, 122A, 122RV, 122V, 142, 222, 222RV, and 242).

**NOTE:** The SSP-1C does NOT replace the AO-16875 five tube pre-amp which was used in BV, CV, and RT consoles as well as in earlier organs which had vibrato kits installed.

## INSTALLATION

**WARNING!** BEFORE PROCEEDING WITH INSTALLATION, DISCONNECT AC POWER FROM THE ORGAN AND INSPECT THE CONSOLE POWER WIRING FOR BRITTLE OR ROTTING INSULATION.

1. Remove all wires from the left hand AC terminal of the old pre-amp. Remove all lugs and strip 3/8" insulation from each wire. Temporarily group the wires together with a twist tie.

2. Remove all wires from the right hand AC terminal. Remove all lugs and strip 3/8" insulation from each wire. Temporarily group the wires together with a twist tie.

3. Remove the wire going to the B+ lug. This wire brings high B+ voltage back from the tone cabinet and is no longer used. Insulate this wire with tape or heatshrink.

4. Remove the remaining ground and GG leads from the pre-amp. Remove all lugs.

5. Remove cover from rheostat box and note the location of the black and red wires of the pre-amp signal cable. Unsolder these wires.

6. Remove old pre-amp and mounting pan (model A only) from console.

**NOTE:** Because of their narrow case, model A consoles used a different pre-amp mounting method than other consoles. Therefore SSP-1C mounting will be slightly different in those organs. Separate instructions are given where necessary.

Rev. 11/14/05 

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| MODEL A ORGANS | ALL OTHER MODELS |
|---|---|
| 7. Temporarily position the SSP-1C chassis on the mounting pan. The shielded wire should be facing the right and the edge of the right mounting flange should be about 1-1/2" in from the end of the pan. Mark the pan with the location of the 2 small mounting holes on each mounting flange. Drill a 7/64" hole at each mark. | Install a plastic spacer in each of the 2 large holes in the right SSP-1C mounting flange. Position the SSP-1C chassis on the channel so that the left mounting flange is over the left two threaded mounting posts. Secure using 2) #8-32 x 3/8" screws. On organs with a chorus generator, it may be necessary to move the oil tube slightly for clearance. |
| 8. Secure the SSP-1C to the mounting pan with 4) #6 x 1/4" sheet metal screws. | Place a sheet of paper under the channel to catch any metal chips. Through each of the plastic spacers, carefully drill a 7/64" hole through the channel. |
| 9. Reinstall the mounting pan on the two support brackets using 2) #8-32 x 3/8" screws, along with original lockwashers and nuts at each end. | Secure the right end of the SSP-1C with 2) #6 x 3/4" sheet metal screws. |

10. Route the SSP-1C shielded cable into the rheostat box. Solder the inner conductor to the lug where the original red wire was soldered. Solder the shield to the ground lug where the original black wire was soldered. Replace rheostat box cover.

11. Mate one wire of the SSP-1C zip cord with the AC wires grouped in step 1 using a yellow wire nut. Mate the remaining wire of the zip cord with the AC wires grouped in step 2 using a yellow wire nut.

**NOTE:** The terminal strip on the SSP-1C allows easy connection of the output and tremolo control wires. Each wire should have approximately 5/16" of insulation removed. Wires are attached by loosening (but not removing) the terminal screw, placing the wire under the clamping bar, and re-tightening the screw.

**NOTE:** This pre-amp contains all necessary switching circuitry for 122 and similar type Leslie tone cabinets.

12. If a 122 type Leslie is being used, remove the Leslie 8,000 kit from organ (if present). Attach one of the tremolo switch wires to the LC terminal. Attach the second tremolo switch wire to the end GND terminal.

13. If a 122 type Leslie is being used, connect its red and black signal wires to the G1 and G2 terminals. Connect its ground wire to the GND terminal.

14. If a Hammond tone cabinet is being used, connect its red and black signal wires to the G3 and G4 terminals. Connect its ground wire to the GND terminal.

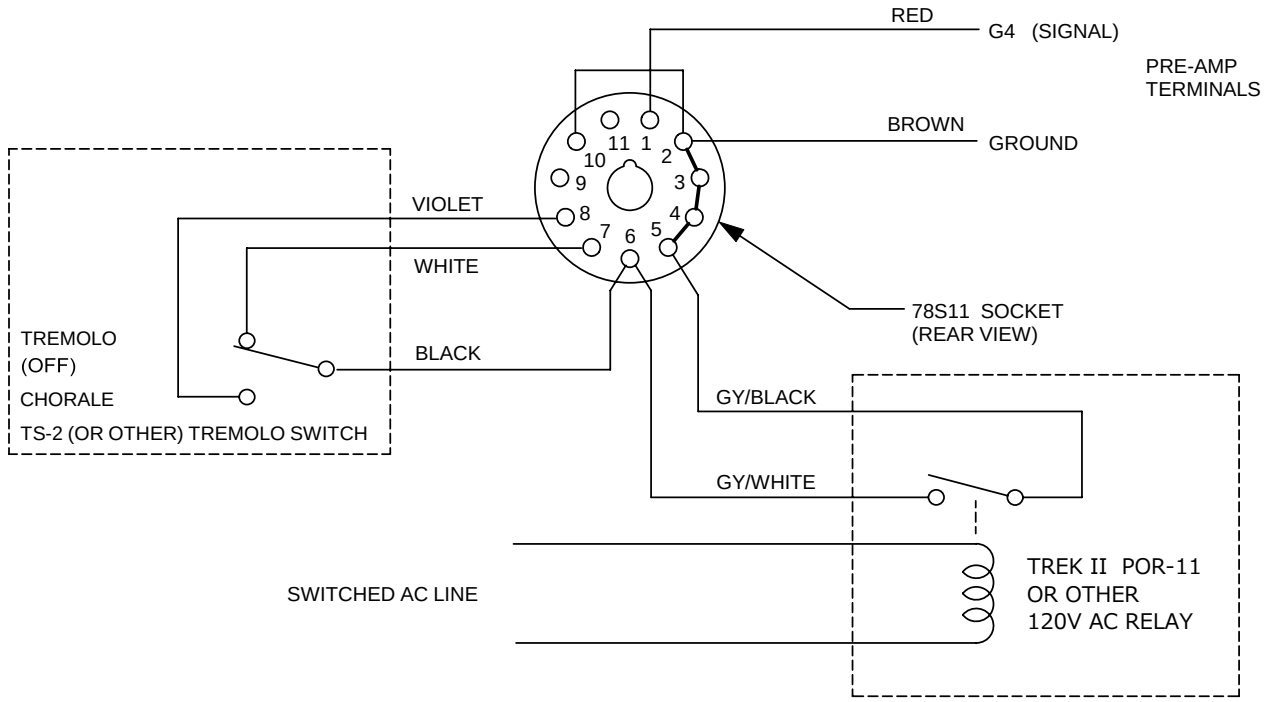
15. Dress all leads and secure where necessary with supplied twist ties. Re-connect AC power to organ.

16. Adjust tone control to customer preference.

This completes normal installation.

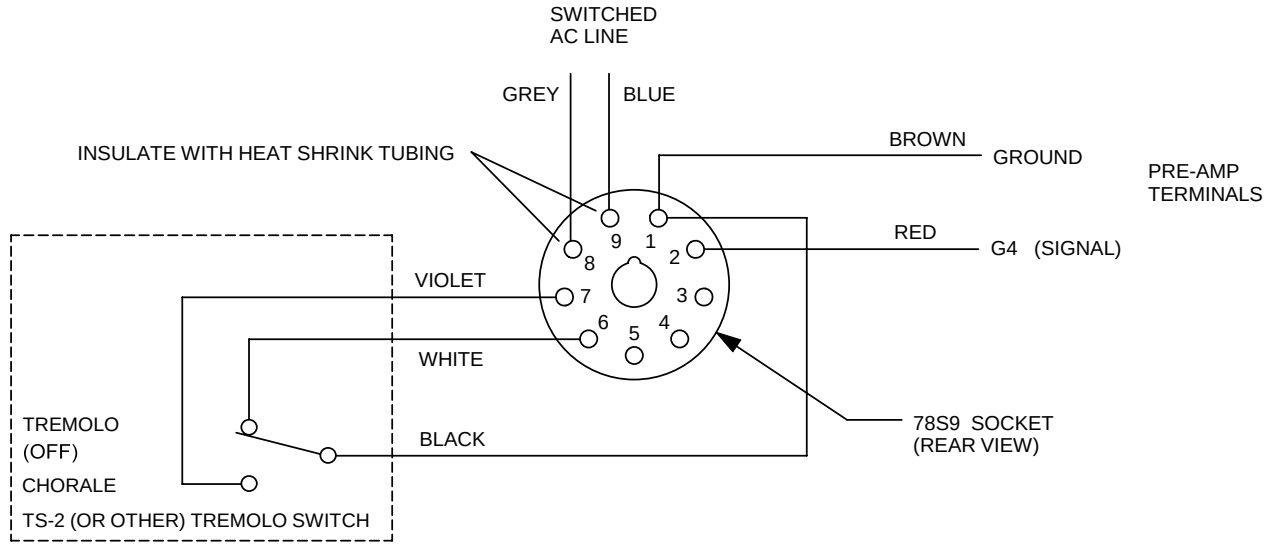
# ADDITIONAL OUTPUT CONFIGURATIONS

Although standard Hammond tone cabinets or Leslie model 122s are recommended, many other successful output configurations are possible. When using one of the Leslies listed below, mount the appropriate receptacle in the organ outlet box and wire as shown.



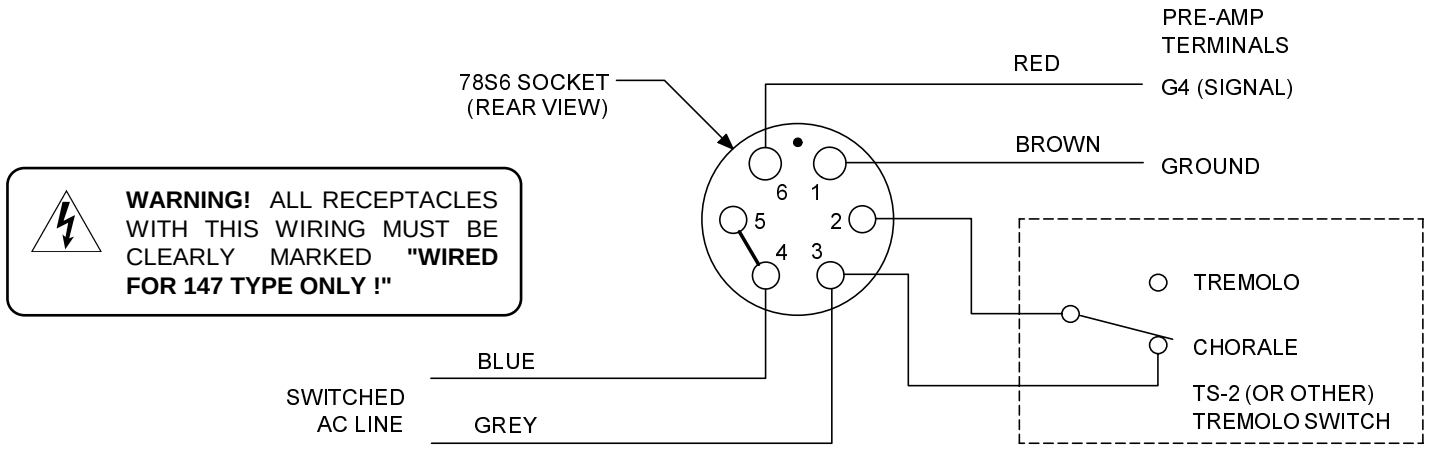

OUTLET WIRING FOR LESLIE MODELS:

122XB, 315, 330, 415, 422, 615, 715, 716, 722, 723, 740, 750, 771, 815, 820, 822, 840, 860, 912, 914




OUTLET WIRING FOR LESLIE MODELS:

760, 770, 900, 910, 925

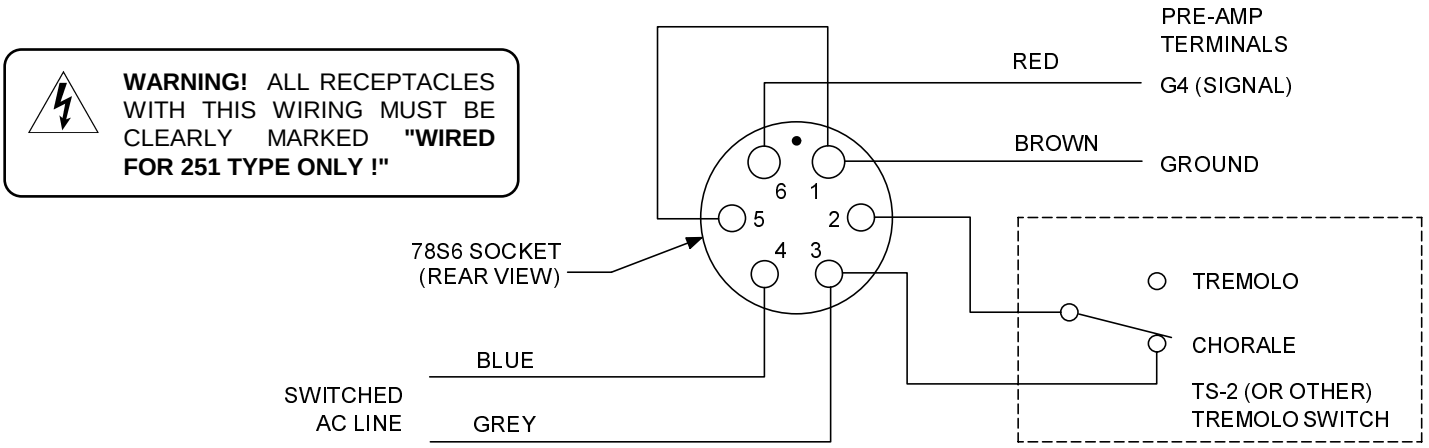



**WARNING!** ALL RECEPTACLES WITH THIS WIRING MUST BE CLEARLY MARKED **"WIRED FOR 147 TYPE ONLY !"**

OUTLET WIRING FOR LESLIE MODELS:

44W, 45, 46W, 47, 145, 147, 147A, 147RV, 245, 247, 247RV

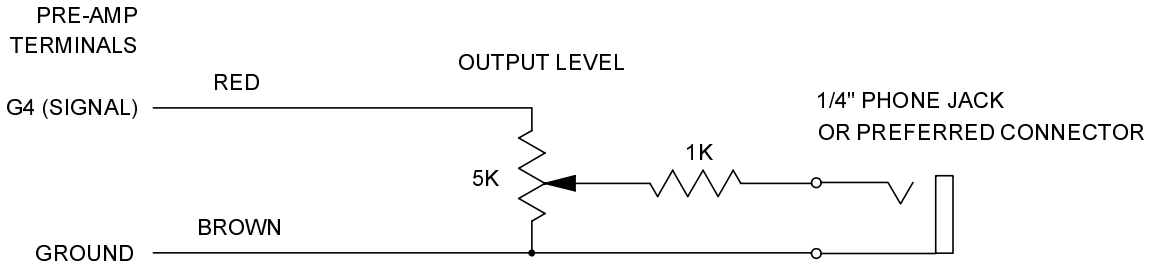
**NOTE:** LESLIES IN THIS GROUP MUST HAVE THEIR CONSOLE LOAD SELECTOR SET TO OPEN




**WARNING!** ALL RECEPTACLES WITH THIS WIRING MUST BE CLEARLY MARKED **"WIRED FOR 251 TYPE ONLY !"**

OUTLET WIRING FOR LESLIE MODELS:

51, 251, 351




WIRING FOR LINE OUTPUT