

SERVICE BULLETIN

Bulletin Part Number: 296133-B2

Product: L1 Model II Power Stand

Subject: Hum/noise audible when a new design SMPS/AMP PCB is installed in a powerstand that has an original version SMPS/AMP PCB.

Disposition: During repair, if you need to install a new version SMPS/Amp PCB (358960-111S or 358961-211S) into a powerstand that has an original version SMPS/Amp PCB (283302 or 291337), you must place a jumper wire across the S301 location to make the grounding scheme of the older board match the grounding scheme of the new board. Perform the below procedure.

Symptom: Hum/Noise can be heard in quiet environment.

Reason: Different grounding schemes were used between the original and new design SMPS/Amp PCB assemblies.

Solution: Install jumper across S301 location on the original version PCB. Refer to the below procedure.

Step 1: Amplifier Board removal

1.1 Remove the four screws that secure the amplifier PCB bracket to the upper housing. Do not remove the three screws located near the power stand handle.

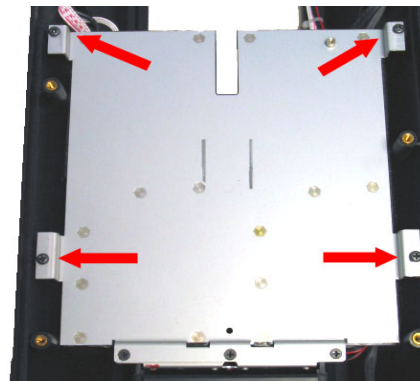


Figure 1

1.2 Flip over the amplifier bracket assembly. Unplug the wire harnesses at connectors J301, J302, CON301, J303 and CON300.

1.3 Remove the eight screws that secure the amplifier PCB assembly to the amplifier bracket. Lift off the amplifier PCB assembly. Be sure to retain the thermal pad located under the amplifier board for re-use.



Figure 2

Date Issued: 03/15

Step 2: SMPS/AMP PCB Modification

2.1: Refer to Figure 3. Install Jumper wire across S301 location. You may leave R300 and C300 Installed.

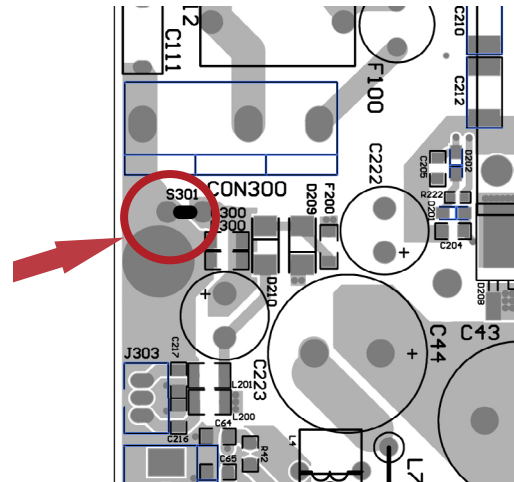


Figure 3

2.2 Refer to Figure 4 as a reference on the connection details.

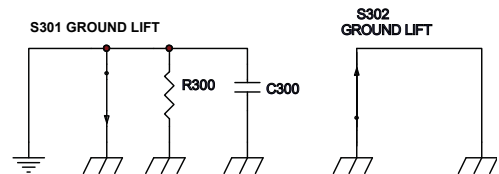


Figure 4

After modification, test all functions using the test procedures in the service manual, reference number 296133-SM. The service manual is located on the Bose Service web sites at <http://intranet.bose.com/tsg> and at <http://serviceops.bose.com>.

For Hipot testing, refer to Hi-Pot Testing Information link on the Bose Service web sites at <http://intranet.bose.com/tsg> and at <http://serviceops.bose.com>. Then select L1 Model II Hipot Training PPT on how to properly Hi-Pot test the L1 Model II power stand. It shows the equipment, cables and adapters needed to properly test these units. While Hi-Pot Testing Information Matrix shows the connection points, adapter cables (if needed), and voltage, current and dwell settings for the various product families