

Customer Service Bulletin

SLM Electronics, Inc. Saint Louis, Missouri

Mar. 16, 1999

CSB0009

Units Affected:

Model

Crate CA-60

Crate CA-60D

Serial Number

All prior to AARDL3XXXX

All prior to AAUDL3XXXX

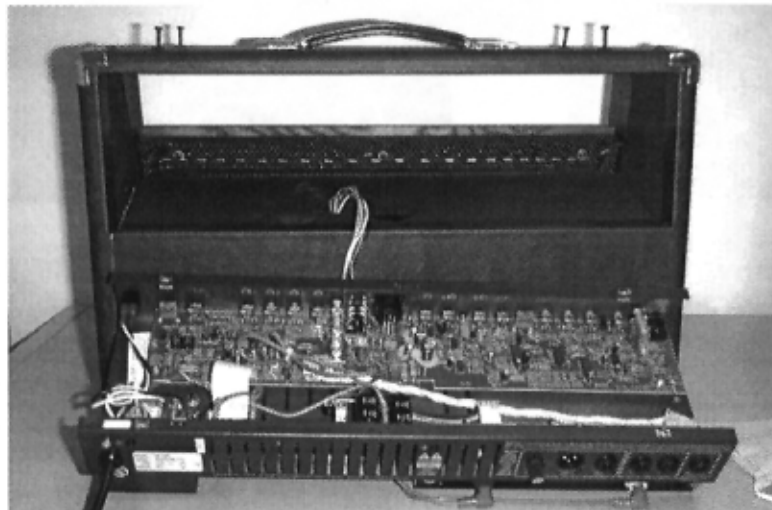
Purpose:

Engineering changes have been incorporated into current production units to reduce the noise generated by the chorus circuit. This change should be performed on any units being serviced for other reasons or if the customer complains of excessive chorus noise.

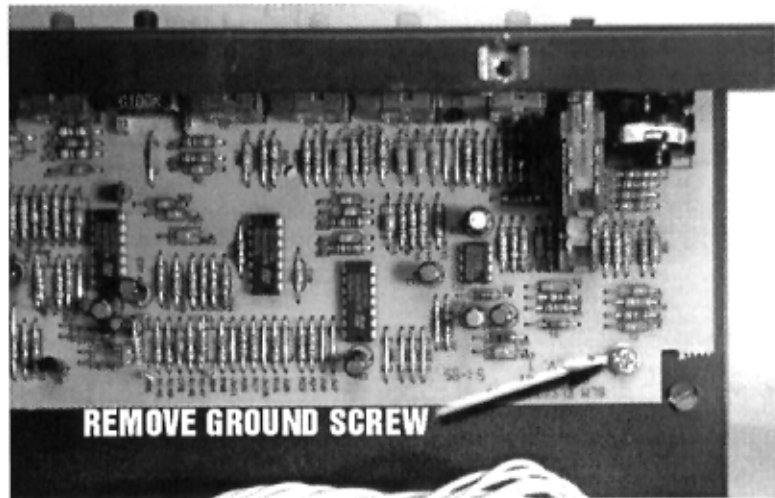
Recommended Action:

NOTE: Use standard anti-static precautions when working with the PCB.

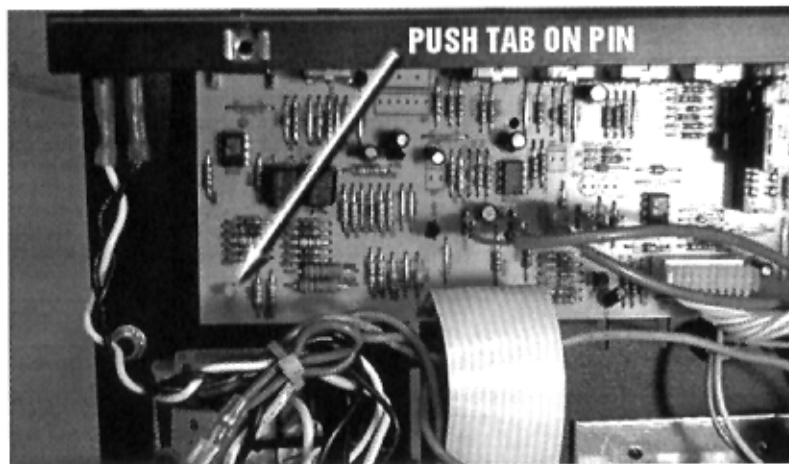
1. Tools/parts needed: #2 phillips screwdriver, pliers, sharp knife*, wire cutters, soldering iron and solder, solder wick or desoldering tool, and the following resistors: (2) 10k 1/4W, (1) 220k 1/4W, (1) 12k 1/4W.
2. Unplug the unit.
3. Unscrew the four chassis mount screws from the top of the cabinet and pull them up about 1".
4. Position the amp with its front panel away from you and gently pull the chassis assembly out from the cabinet. Take care not to damage the speaker wires! Rest the chassis assembly on your work surface, behind the cabinet (see photo below).



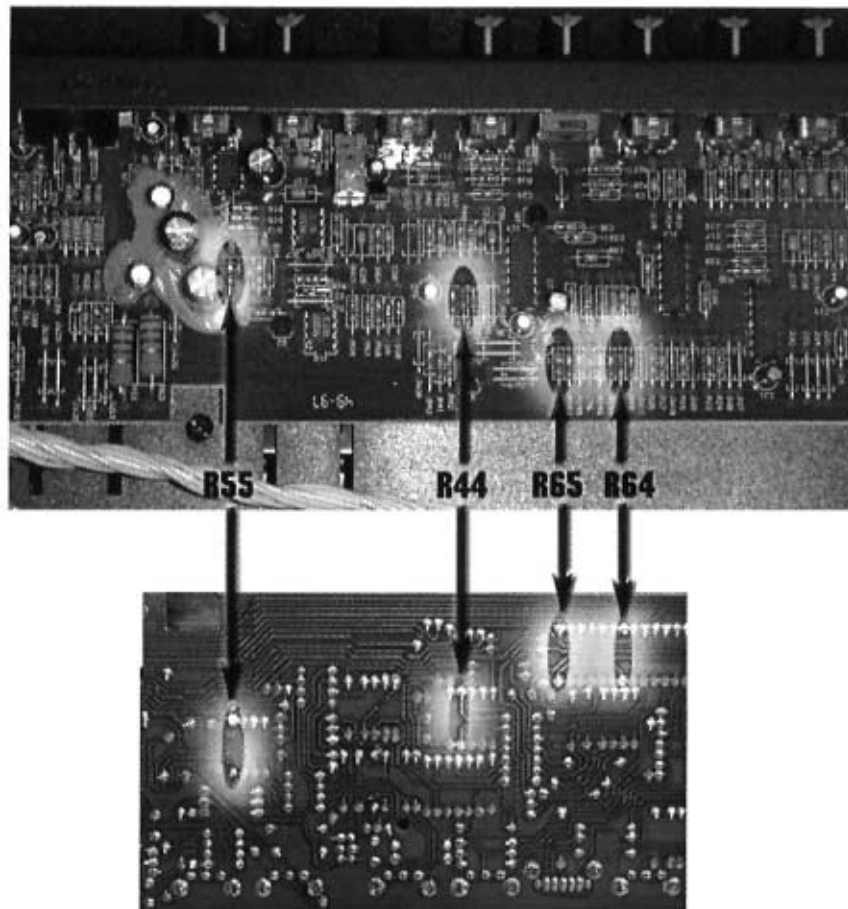
5. Tilt chassis so front panel faces up. Remove all of the knobs, the two jack nuts, and the two small screws at the Low-Z jack.
6. Remove the ground screw from the lower right corner of the preamp PCB (see photo below).



7. Push in the small retaining tab of the nylon PCB mount (lower left corner of PCB - see photo below) and carefully pull preamp PCB down until all pot shafts clear the chassis. Gently flip the PCB vertically to access the solder side.



8. Locate the following four resistors: R44, R55*, R64 and R65 (see photo on next page). Remove these four components from the PCB.



9. Install the new resistors as follows:
- | | |
|-----------|-----------|
| R44, R65: | 10k 1/4W |
| R55*: | 220k 1/4W |
| R64: | 12k 1/4W |
10. Carefully reinstall the PCB into the chassis. Replace the ground screw - **DO NOT** overtighten! Gently press the lower left corner of the PCB over the mounting pin until it locks in place.
11. Reinstall the knobs, jack nuts, and screws along the front of the chassis.
12. Reposition the chassis assembly into the cabinet. Line up the nuts along the top edges of the chassis with the mounting screws, then tighten the screws. **DO NOT** overtighten!
13. Feed the excess speaker wire (its service loop) back into the cabinet.

**Use a sharp knife blade to carefully remove any component shock mount from around R55. Do not disturb the integrity of the adhesion to the nearby capacitors!!*

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