

Bulletin Number 245**Power Supply Replacement Directions****LM100 Broadcast Loudness Meter**

- Modification Urgent
- Modification Recommended
- Modification Required if Problem Is Present
- Modification Required on Early Units
- Information Bulletin

Required Tools and Parts

Tools required: #1 Phillips screwdriver

Parts needed: Replacement power supply (Dolby® Part Number 4900140) or Universal Microelectronics UP0403A-03

Replacement Procedure

1. Remove power from the unit.
2. Remove 14 Phillips head screws holding the top cover in place. Figure 1 shows the screw locations.

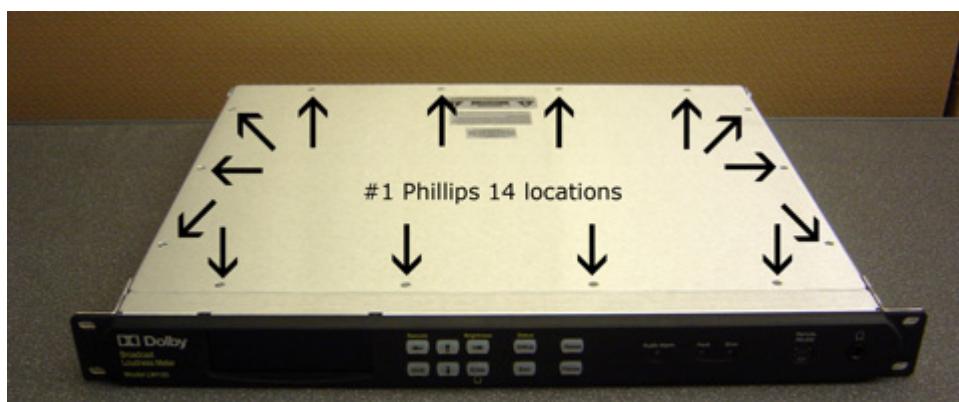


Figure 1 Top Screw Locations

3. Remove the top cover.

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Dolby Laboratories, Inc.
100 Potrero Avenue
San Francisco, CA 94103-4813 USA
t 415-558-0200
f 415-863-1373
dolby.com

4. Remove the four Phillips head screws, shown in Figure 2 and Figure 3, that hold the power supply module in place.

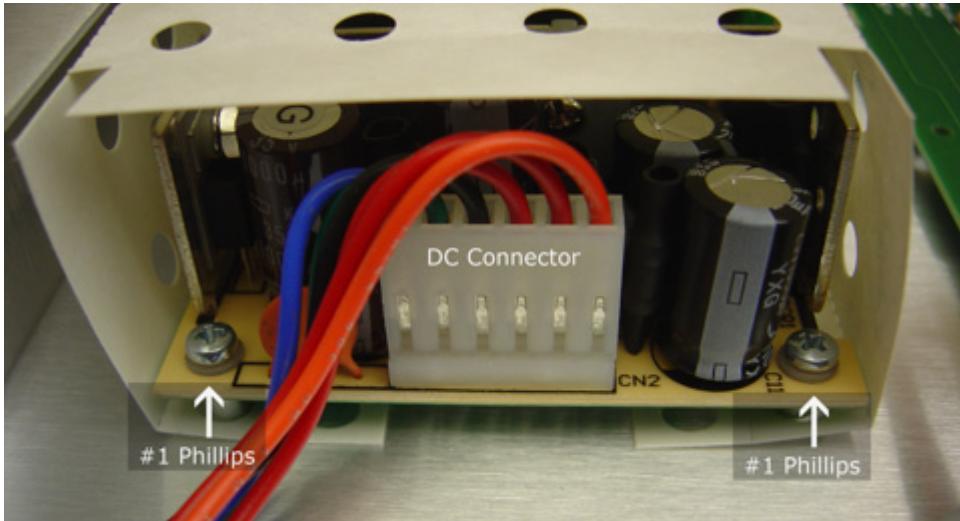


Figure 2 DC Connector and Attaching Screws

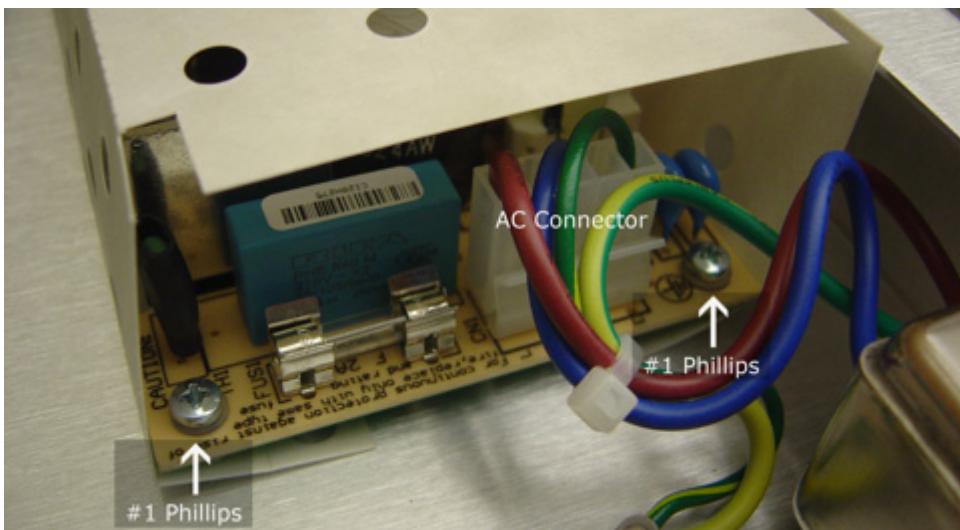


Figure 3 AC Connector and Attaching Screws

5. Lift up the old power supply and protective cover.
6. Unwrap the protective cover from power supply module, and set it aside. The protective cover will be reused. Figure 4 shows the power supply module after the protective cover has been removed.

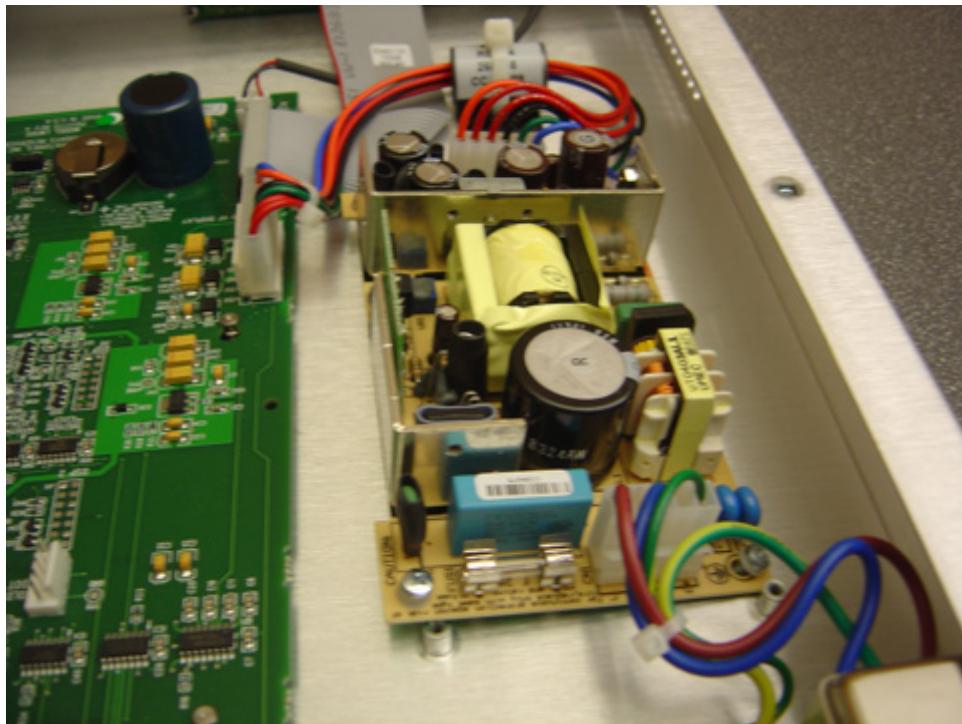


Figure 4 Power Supply Module with the Cover Off

7. Unplug the white DC and AC connectors from the old power supply module.



Figure 5 Disconnected Power Supply Module

8. Remove the old module.

9. Install the new power supply and protective cover, noting the correct orientation of the connectors. It is easiest to place the long side of the protective cover closest to the chassis wall first, as shown in Figure 6.

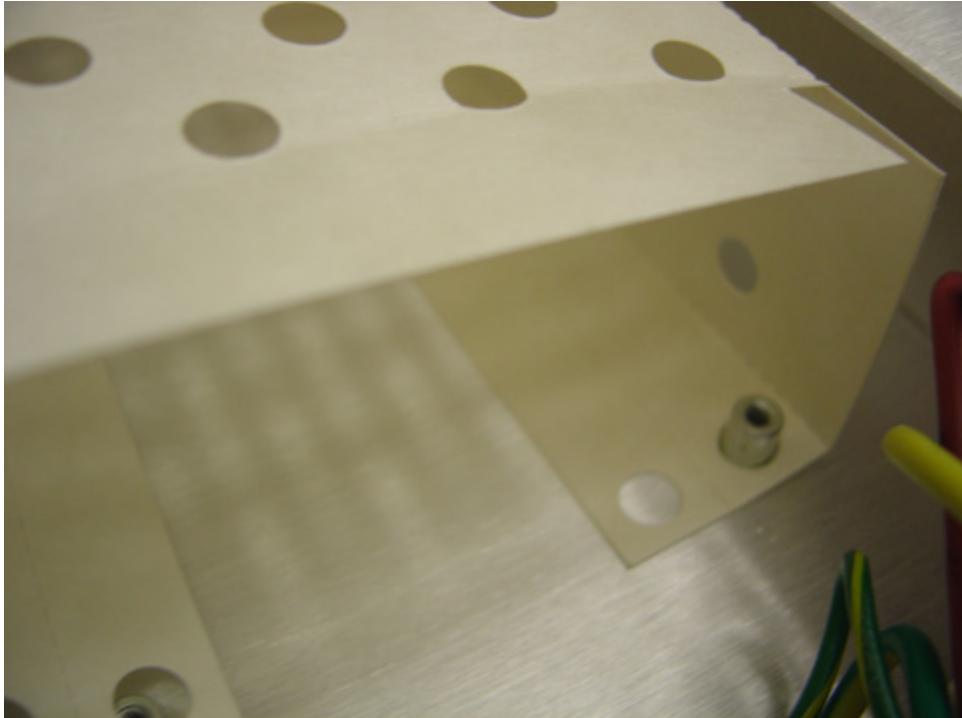


Figure 6 Protective Cover Started

10. Continue by placing that side of the power supply module over the mounting studs.
11. Slip the other side of the protective cover under the power supply and over the mounting studs.
12. Place the second side of the power supply over the mounting studs.
13. Insert and tighten the four screws, as shown in Figure 7.

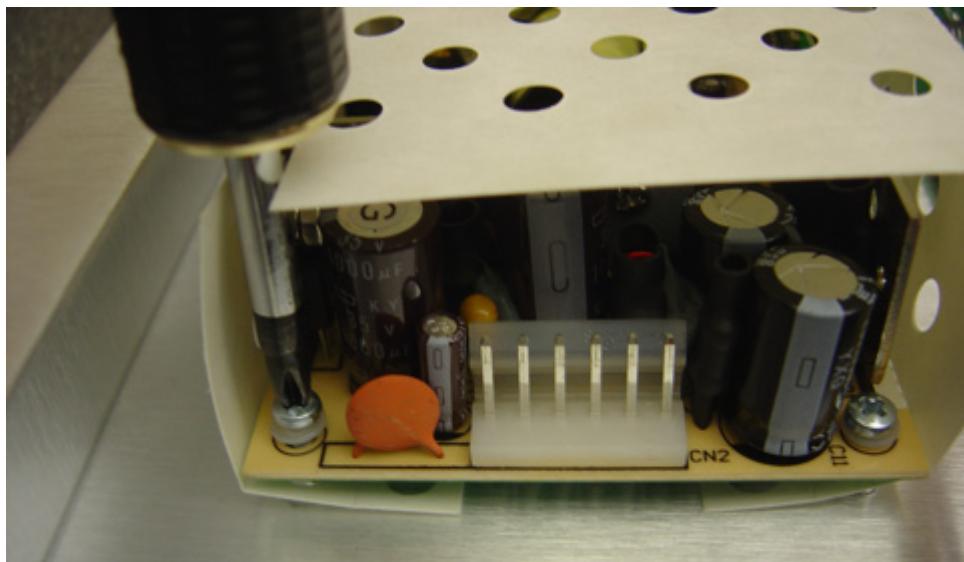


Figure 7 Tightening an Attaching Screw

14. Plug the DC and AC connectors into the new power supply module.
15. Replace the top cover.
16. Insert and tighten all 14 screws.
17. Check the fuse, and replace as needed with the appropriate sized fuse.



Figure 8 Fuse Holder

18. Plug in the unit, and verify that it functions.