



TECHNICAL INFORMATION BULLETIN

TITLE: CONTROL 25,28 FUSE ADDITION

NUMBER: TB-012

Page: 1

DATE: 04-15-98

Purpose: When a Control 25,28 (not T Version) is overpowered, the protection lamps get hot enough to damage the network and in extreme cases even melt the cabinet. Adding the fuse limits the amount of current that is delivered to the components.

Indications: The fuse should be installed in any unit that has evidence of over powering.

Warranty Implications: Should you receive a unit that has a blown fuse, it will be considered out of warranty.

Tools needed: #1 Phillips Screwdriver, 3mm hex wrench, hobby or box knife, soldering iron, solder, and ohmmeter

Fuse Part Number: JBL part number -473002

Production: This is a running change and any serial number followed by a "b" will have the fuse.

Procedure:

1. Remove logo on front grille by grabbing the corners with your fingers and gently pulling off the logo
2. Remove the (2) screws beneath logo
3. Remove (6) Allen head screws that hold the front baffle on
4. Remove baffle
5. Disconnect the (2) leads going to the tweeter, noting positive and negative leads
6. Disconnect the (2) leads going to the woofer, noting positive and negative leads
7. Remove the (4) screws on the terminal cup on back of speaker
8. Remove the network from the speaker by pulling terminal cup out of back of speaker
9. It needs to be determined whether or not there are jumpers installed on the network. These jumpers are used to install transformers for 70-volt use. Look at Figure1 of this bulletin and you will be able to see where the jumpers would be installed. If there are jumpers, go to step 11, if not go to step 10.
10. If there are no jumpers, the trace will need to be cut. Look at Figure 1 to reference where the trace needs to be cut. With an ohmmeter, be sure that there is no continuity after trace has been cut.
11. The fuse is then installed making the connection over the trace that was just cut. If there is a jumper, desolder and remove it from the trace connected to the positive terminal and replace it with the fuse. If there is not a jumper, solder one side of the fuse to the positive terminal and the other side to the leg of R1 (which is the big 5W resistor). The incoming signal is now routed through the fuse.
12. Reassemble the speaker by first reinstalling the network and screw in the (4) screws on the terminal cup.
13. Lift the baffle back up to the enclosure and reconnect the lead to the woofer and tweeter, making sure the connections are correct.
14. Reinstall the (6) Allen head screws that connect the baffle to the enclosure.
15. Reinstall the (2) screws that go beneath the logo and install the logo.
16. To verify correct installation of the fuse, check the DC resistance by inserting an ohmmeter in the positive and negative terminal of the speaker. It should read approximately 6.5 ohms for the Control 25 and 5 ohms for the Control 28.
17. If it does not, follow the disassembly instructions and verify correct installation of the fuse, verify that the trace was completely cut and check to make sure that the speaker leads were installed correctly. If problems persist, contact JBL Professional.



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TITLE:

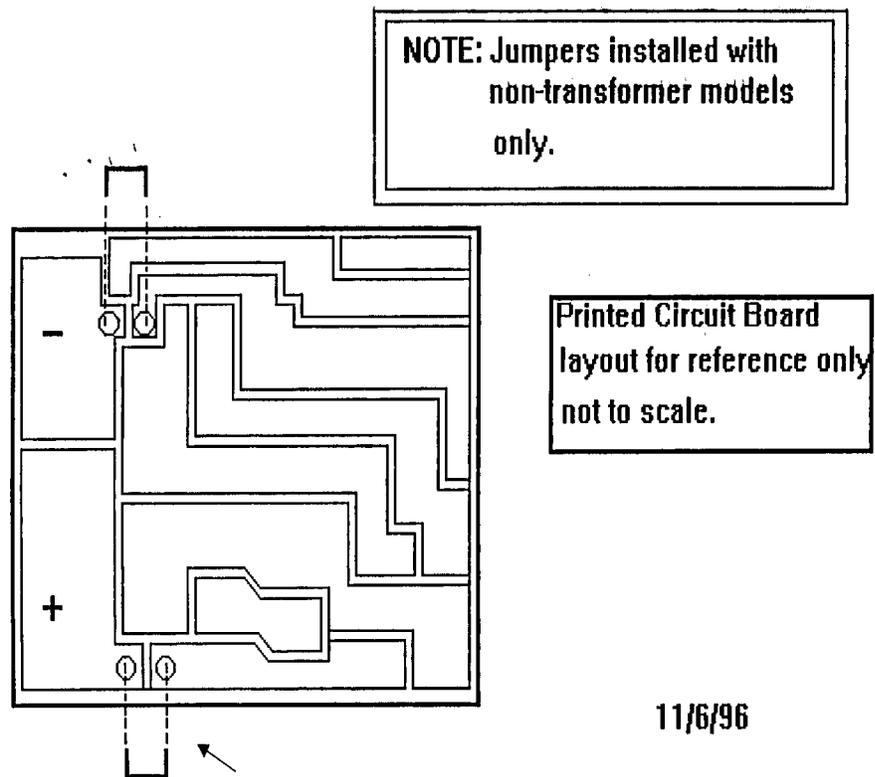
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Figure 1



THE FUSE SHOULD BE HERE. THIS IS ALSO A GOOD PLACE TO CUT THE TRACE IF NECESSARY.

