

CLASS FM	DWG NO. 318882-TT
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REVISIONS			
REV	DESCRIPTION	ENG	DATE
00	INITIAL RELEASE	BOB SMITH	9/09

SIGNATURES REQUIRED		PRINT NAME	SIGNATURE
TSG REPRESENTATIVE		BOB SMITH	
CELL LEAD		PAUL ERRANTE / ERIC KAS	
REPAIR SUPERVISOR		DAVID CORN	
QUALITY		RICHARD SMITH	

TSG ENGINEER Bob Smith	DATE 9/09	<i>BOSE</i> [®] FRAMINGHAM, MA 01701-9168
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APPLICABLE DOCUMENTS: SERVICE MANUAL: 318882-SM	DESCRIPTION L1 Compact (Cajun) Troubleshooting Tips				
	SIZE A	FSCM 32108	CLASS FM	DWG NO. 318882-TT	REV 00

Description

Refer to the L1 Compact Service Manual 318882-SM located on the Bose Service web sites at <http://intranet.bose.com/tsg> or <http://serviceops.bose.com> for any information not presented in this document.

1. Preventative Repair Measures

Note: Perform the following on all units returned for repair.

Product	Check	Action
L1 Compact	Check DOM embedded in product serial number.	<p>If the date code is before 7/24/09 (DOM <u>9205</u>), replace zener diodes Z1, Z2 and Z7 using the rework procedure outlined in Service Bulletin 318882-B1. These diodes are located on the Amplifier / Power Supply PCB assembly.</p> <p>This bulletin MUST be performed on all units that come in for repair that were built before the above date code.</p> <p>This bulletin is located on the L1Compact Service web page at http://serviceops.bose.com on the Pro Products page.</p>

2. Troubleshooting Tips

Product	Symptom	Check	Action
L1 Compact	Dead unit.	DOM of product.	<p>If the date code is before 7/24/09 (DOM <u>9205</u>), replace zener diodes Z1, Z2 and Z7 using the rework procedure outlined in Service Bulletin 318882-B1. These diodes are located on the Amplifier / Power Supply PCB assembly.</p> <p>This bulletin MUST be performed on all units that come in for repair that were built before the above date code.</p> <p>This bulletin is located on the L1Compact Service web page at http://serviceops.bose.com on the Pro Products page.</p>
L1 Compact	Excessive noise floor on the Channel 1 Mic Input.	DOM of product.	<p>If the date code is before 8/18/09 (DOM 9230), replace resistors R117, R171, R165, R311, R248, R190, R118 and R119 with new values as listed in the rework procedure outlined in Service Bulletin 318882-B2. These resistors are all located on the Input/Output PCB assembly.</p> <p>This bulletin is located on the L1Compact Service web page at http://serviceops.bose.com on the Pro Products page.</p>
L1 Compact	Loud crackling noise on channel 2 inputs – no sources connected.	Solder on D306 on the amplifier / power supply PCB.	Channel 2 noise complaint. Unit makes a crackling noise as if the pot was dirty or if a cord was defective. Occurs on all channel 2 connectors. With no inputs connected, unit has very loud crackling noise as soon as channel 2 is turned up. Re-solder the pins on diode D306. D306 is a dual diode that clamps the input voltage from the 1/8 jack to protect the input Op-Amp.

Product	Symptom	Check	Action
L1 Compact	Clicking sound. No audio output.	Check for failed audio amplifier IC U3.	Defective Amplifier IC, TDA8920 on Power supply PCB. Clicking sound is caused by the amplifier detecting the fault, shutting down and then attempting to restart.
L1 Compact	Channel 1 noise. Intermittent.	R149 solder connections.	Channel 1 noisy with no sources connected. Can be intermittent. Noise fades after about 2 to 15 minutes. Check R149 for solder issues or failure. This resistor is located on the Input / Output PCB assembly.

3. Software / Firmware Updates

Not applicable. The L1 Compact is an analog product with no DSP. There is no software or firmware to update.