

Troubleshooting Guide

Lifestyle® PS-18/28/38/48

Refer to the Lifestyle® PS-18/28/38/48 service manuals, part number 268795 for schematics, PCB layouts and parts lists.

Preventative Repair Measures

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

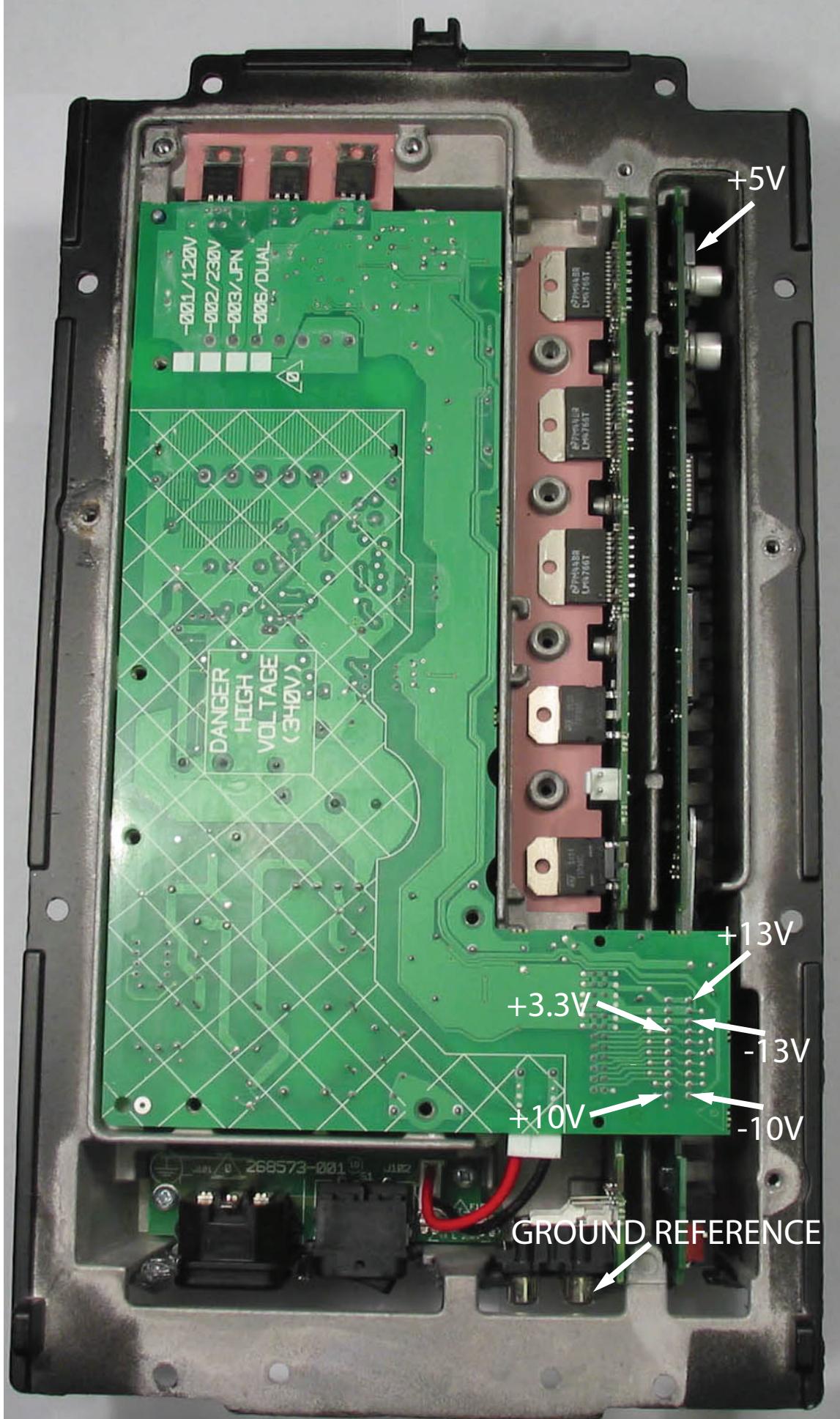
Product	Check	Action
PS18/28/ 38/48	Software Revision	Upgrade to latest revision.
PS18/28/ 38/48	FB5	Review the DSP board for damage to FB5 and surrounding components. Repair any damage found, if damage is excessive replace DSP board.

Troubleshooting Tips

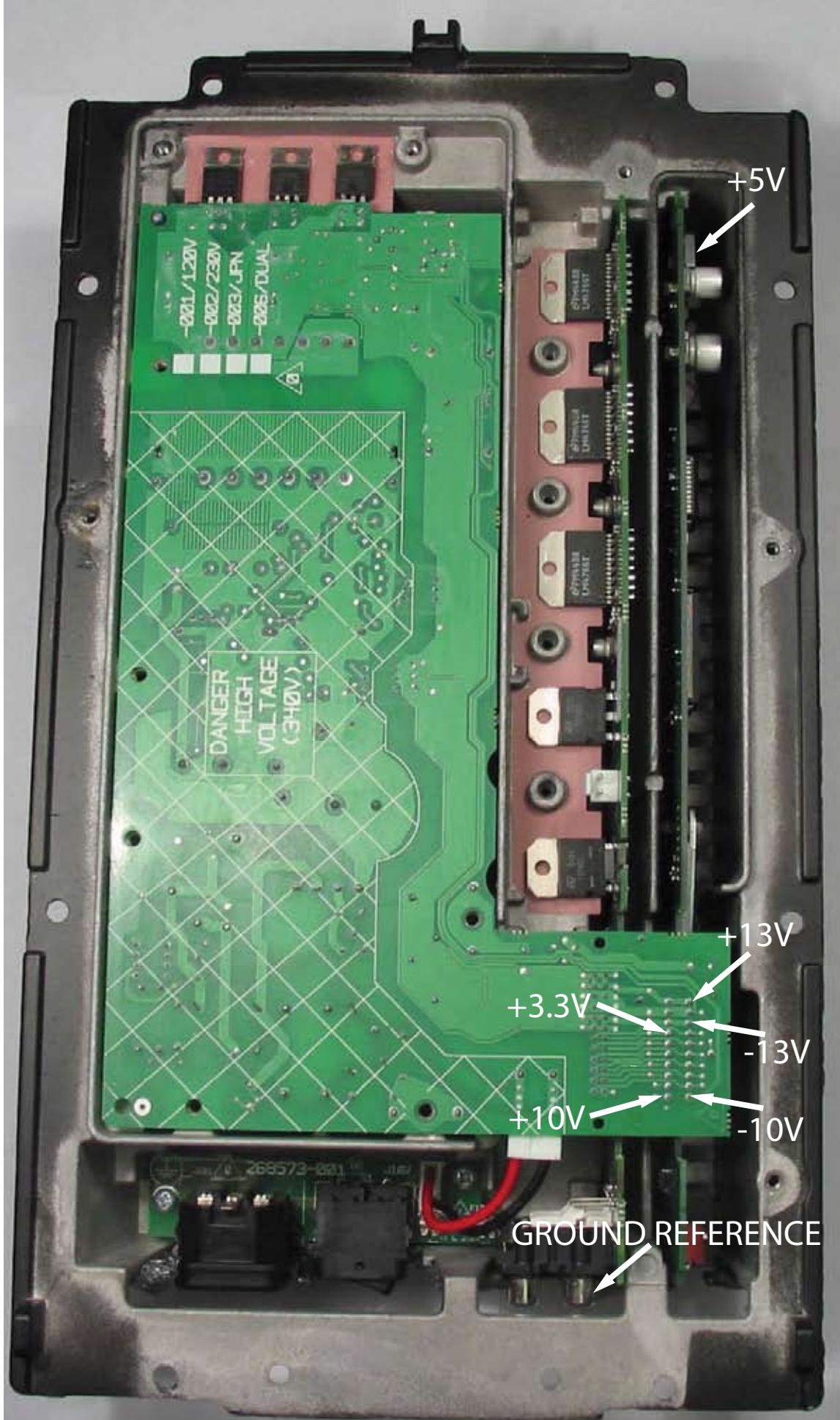
Product	Symptom	Check	Action								
DSP	No Audio, slow green led at all times	FB5 on bottom side of DSP board	<p>Replace FB5 if burnt or open. R9 may also need to be replaced. On later version pcb's (part # 268455) check resistors R656 and R657. Check for visual damage to pcb around connector J1. Some trace repair may be necessary. Also check C106 on the power supply pcb for visible damage.</p> <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>FB5</td><td>188587-401</td></tr> <tr><td>R9</td><td>133627</td></tr> <tr><td>R656, R657</td><td>133626-5105</td></tr> <tr><td>C106</td><td>137127-474</td></tr> </table>	FB5	188587-401	R9	133627	R656, R657	133626-5105	C106	137127-474
FB5	188587-401										
R9	133627										
R656, R657	133626-5105										
C106	137127-474										
DSP	No Audio, slow green led at all times	Dipswitch connector S1	<p>Make sure all of the switches are in the "on" position. The arrow on the connector indicates the correct switch position. Check for cracked solder joints at the bottom of the connector if switches are set correctly.</p>								
DSP	No Audio, no LED's lit	U501	<p>Check for 5V at pins 5 and 6 of U501. If missing, replace IC with part # 254196-001. Also check diode D501 on bottom side of dsp board. Replace with 193847-001 if shorted.</p>								
DSP	No audio, solid amber led	Flash IC U301	<p>If the amber led is solid, check for the +/- 13V rails on amp pcb. If the rails are at +/- 20V replace U301 with part # 307508.</p>								
DSP	Audio cuts out after a few minutes	Y201	<p>Crystal Y201 may have a thermal breakdown issue. Replace with part # 256128-001.</p>								

Troubleshooting Tips, continued

Product	Symptom	Check	Action
DSP	No audio, solid amber led	Y201	Crystal Y201 may have failed. Replace with part # 256128-001.
DSP	No audio, led's toggle back and forth when power is applied.	U302 and U303	Replace SDRAM IC's U302 and U303 with part # 254195-010.
DSP	Intermittent Audio	J1	If audio cuts out when stressing connector J1, replace connector with part # 260334-0012.
Power Supply	Unit keeps blowing fuses	Q101 and Q102	Check for shorted FET's Q101 and Q102. Only replace if there is no visible damage to controller IC U101 and surrounding components.
Power Supply	No power	U101 for visible damage	If U101 is burnt, replace power supply board with part # 285837-003
Power Supply	No / distorted audio	R201 and R202	Fusable resistors R201 or R202 may be open. Replace with part # 260352-100.
AMP	No power	Output IC's U1, U2 and U3	If U1, U2, or U3 fails in a PS18, PS28 or PS48 bass module that has amp PCB 266999-0, replace the amp PCB with part number 267332-0, which has improved output ICs. Note: The improved outputs ICs U1, U2, and U3, part number 267330-001 are not compatible with the older amp PCB part number 266999-0. Phase in of the new amp PCB began in November 2003 and was completed in January 2004.



The above diagram can be used as an aid for measuring the power supply voltages with the unit assembled.



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