

Required Modifications From Original LWE Supplied Current Shunt:

- Both op-amps must be replaced with AD-829 type amplifiers
- Compensation capacitors (22pF) must be added from pin 5 of the AD-849 chips to ground
- The power resistor (R1) is now mounted off the board and is changed to a 2.5 ohm, 50W
- R9 changes from 2k to 560 ohms
- R7 and R8 are bypassed with 4.7pF
- R14 is removed

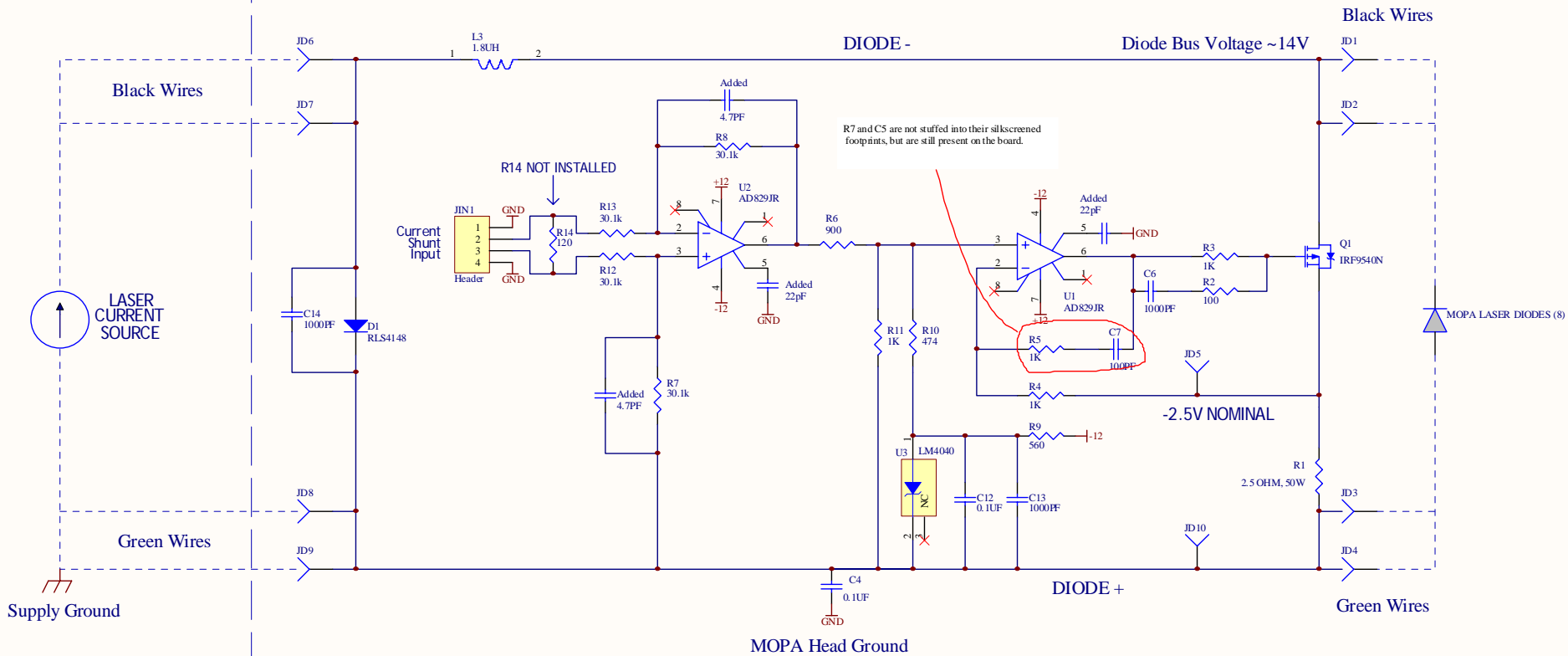
Revision History:

Rev. A - Initial release

Rev. A1 - Added updates from LHO per DCN E040497-00-C

- Compensation capacitors on pin 5 of each amp were increased from 15pF to 22pF to stop oscillations.
- Corrected labeling errors on Green and Black wires
- Added notes explaining that the PCB pads labeled "R5" and "C7" are not stuffed in their original silkscreened footprints, but bridged between R4 and C6.

Rack Mounted  
Laser Power Supply



Designed by Lightwave Electronics Corp.

Title <b>Lightwave Electronics Current Shunt</b>		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: B	DCC Number: D040542	SCH / PCB Revision: A1	Engineer: RS Abbott	Date: 1/6 2005	Time: 12:00:58 PM
File: C:\Rich's Files\MyCADfiles\PSL\ISS\Current_shunt\lwe_shunt_b.SchDoc			Sheet 1 of 1		