GRACE design

V3 Voltage Calibration Procedure

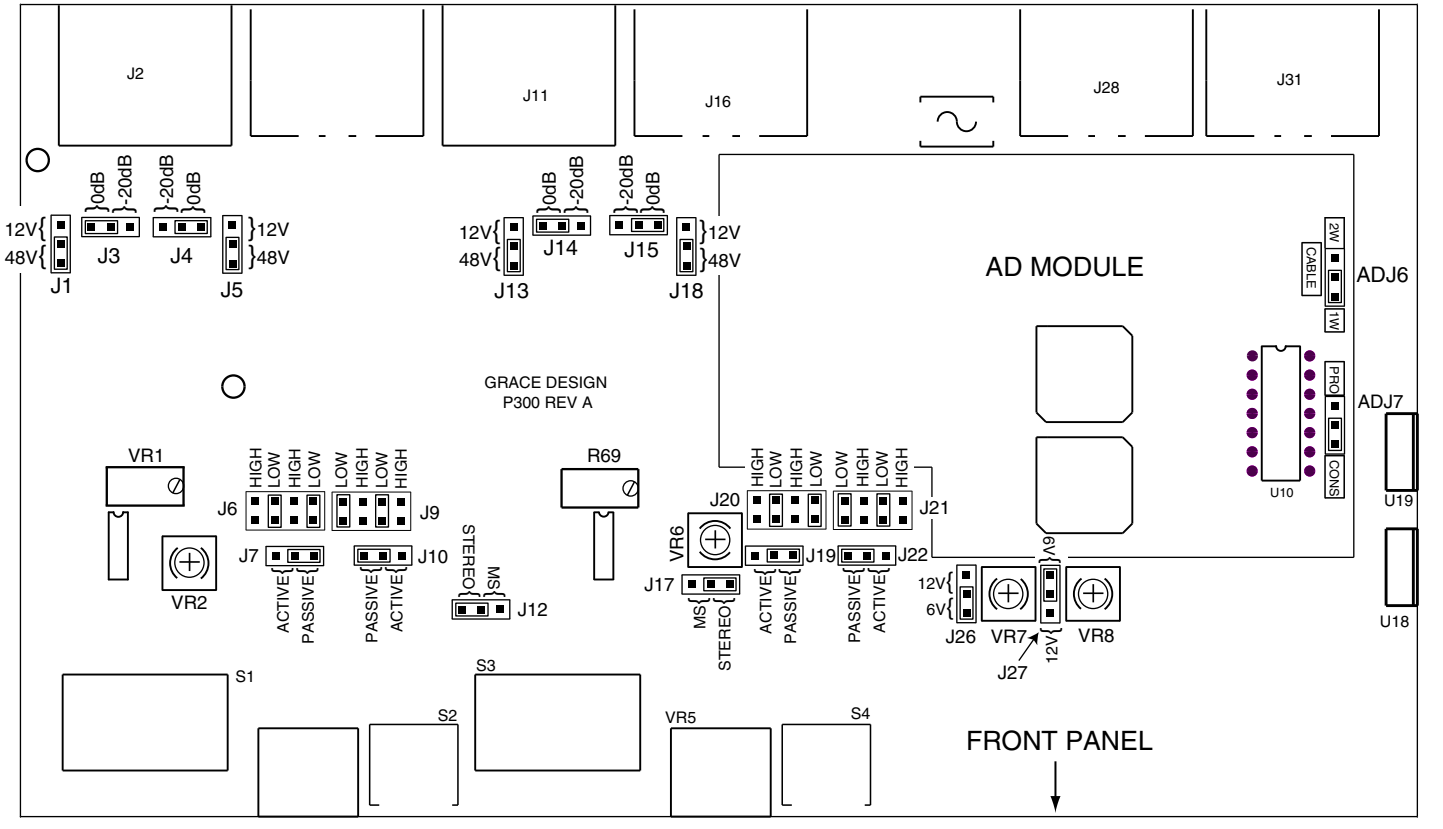
The Lunatec V3 preamplifier is designed to run on DC current ranging from 6V to 12V. The only difference between 6V and 12V models is in the threshold levels for the low battery detector circuit and the auto power-down circuit. These thresholds come set at the factory for either 6V or 12V sealed lead-acid type batteries. The following procedure outlines jumper settings and calibration of these circuits. These adjustments should be made only by qualified service personnel. If you have any questions or problems with this procedure please call Grace Design at 303-443-7454.

Equipment needed:

- Adjustable DC power supply: 5-15V, 1.8A minimum
- DC Volt meter
- Non metallic adjustment tool
- #2 Phillips head screw driver
- DC power cord: 2.1mm DC plug (center +) on one end, appropriate connector for DC power supply on the other. This cable should be 20AWG or larger and not longer than 3 feet long.
- **BE CAREFUL TO OBSERVE PROPER POLARITY TO PREVENT DAMAGE TO THE V3!**

Procedure:

1. Begin by removing the top cover of the V3. Make sure that the power switch on the V3 is in the off position. Connect the power cable to the V3 and to the DC power supply. Observe the polarity!
2. Select the Voltage range with J26 and J27 (refer to the jumper location drawing).
3. Insert the tip of the black or GND lead of the DC Volt meter into one of the top cover mounting holes on the top surface of the rear panel.
4. Turn VR7 and VR8 fully Clockwise
5. Set the DC power supply voltage to 15 Volts (8V for 6V V3). Turn on the V3 and set FS to 48kHz.
6. Measure the DC voltage coming in to the V3 at the power jack located at the rear panel. To do this, carefully place the red or POS lead of the DC Volt meter on the positive power terminal. This is the one located closest to the word clock and SPDIF outputs.
7. Adjust the DC supply for 11.5V (5.75V for 6V V3)
8. Turn VR8 slowly counter clockwise until the low battery LED just begins to flash. This concludes the low battery threshold adjustment.
9. Measure the DC voltage coming in to the V3 at the power jack and adjust the DC supply for 10.0V (5.0V for 6V V3).
10. Turn VR7 **slowly** counter clockwise until the V3 shuts off. This concludes the voltage calibration procedure for the V3. Turn of the V3 and remove the DC power source. Replace the top cover.


J2
J11
J16
J28
J31
12V
48V
J1
0dB
-20dB
J3
-20dB
0dB
J4
12V
48V
J5
J13
J14
J15
J18
AD MODULE
2W
CABLE
1W
ADJ6
PRO
CONS
ADJ7
U10
U19
U18
GRACE DESIGN
P300 REV A
VR1
VR2
R69
HIGH
LOW
J6
J9
J7
J10
ACTIVE
PASSIVE
STEREO
MS
J12
J20
J21
VR6
J17
J19
J22
J26
VR7
VR8
6V
J27
S1
S2
S3
VR5
S4
FRONT PANEL