



## 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

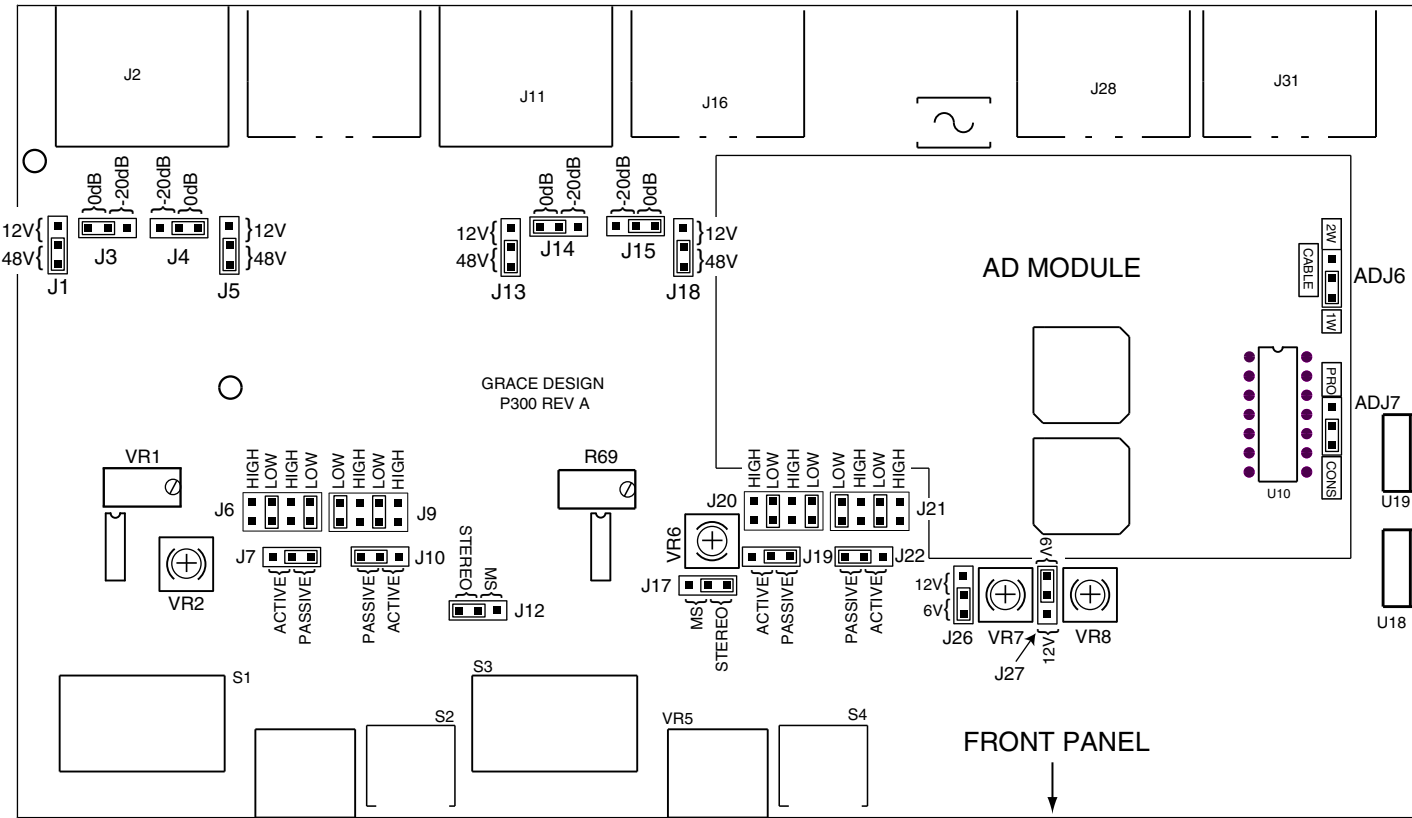
### Equipment needed:

- 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 and turn on the V3, setting 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 switch terminal 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.





GRACE DESIGN  
P300 REV A

AD MODULE

FRONT PANEL

ADJ6

ADJ7

U19

U18

CABLE

TW

PRO

CON

U10

U9

VR8

J27

J26

VR7

J21

J20

J19

J17

VR6

MS

STEREO

J12

ACTIVE

PASSIVE

ACTIVE

PASSIVE

LOW

HIGH

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