

## V2 AC POWERING ISSUES

### GENERAL:

This document outlines issues regarding 12V V2 use with an AC power adapter. 6V V2s can run on AC power adapters without adjustment.

The Lunatec V2 was designed primarily for battery powered field use. It contains circuitry that monitors the DC power entering the unit and activates a low battery indicator LED if the battery voltage drops below a calibrated threshold. As well, an automatic shut-off circuit will turn the V2 off if the supply voltage drops below a calibrated threshold. The factory settings for the auto shut-off circuit reflect the maximum recommended discharge point for a sealed lead-acid type battery. The actual shut-off voltage threshold for a 6V V2 is 5.0V and 10.0V for a 12V V2. When using a V2 with an AC adapter instead of a battery the V2 must be set in 6V mode and the adapter must be rated for 12-15V output. Without this extra voltage margin, AC power line interruptions can cause the auto shut-off circuit to shut off the V2 accidentally.

The V2 voltage select circuitry consists of a jumper and a potentiometer for the low battery LED circuit and a jumper and potentiometer for the auto shut-off circuit. In each case the jumper sets the voltage range and the potentiometer provides for exact calibration. When setting a 12V V2 to 6V for AC operation the auto shut-off jumper needs to be moved to the 6V position. This sets the V2 in the 6V range but the calibration for 12V batteries remains intact when the jumper is moved back to the 12V position.

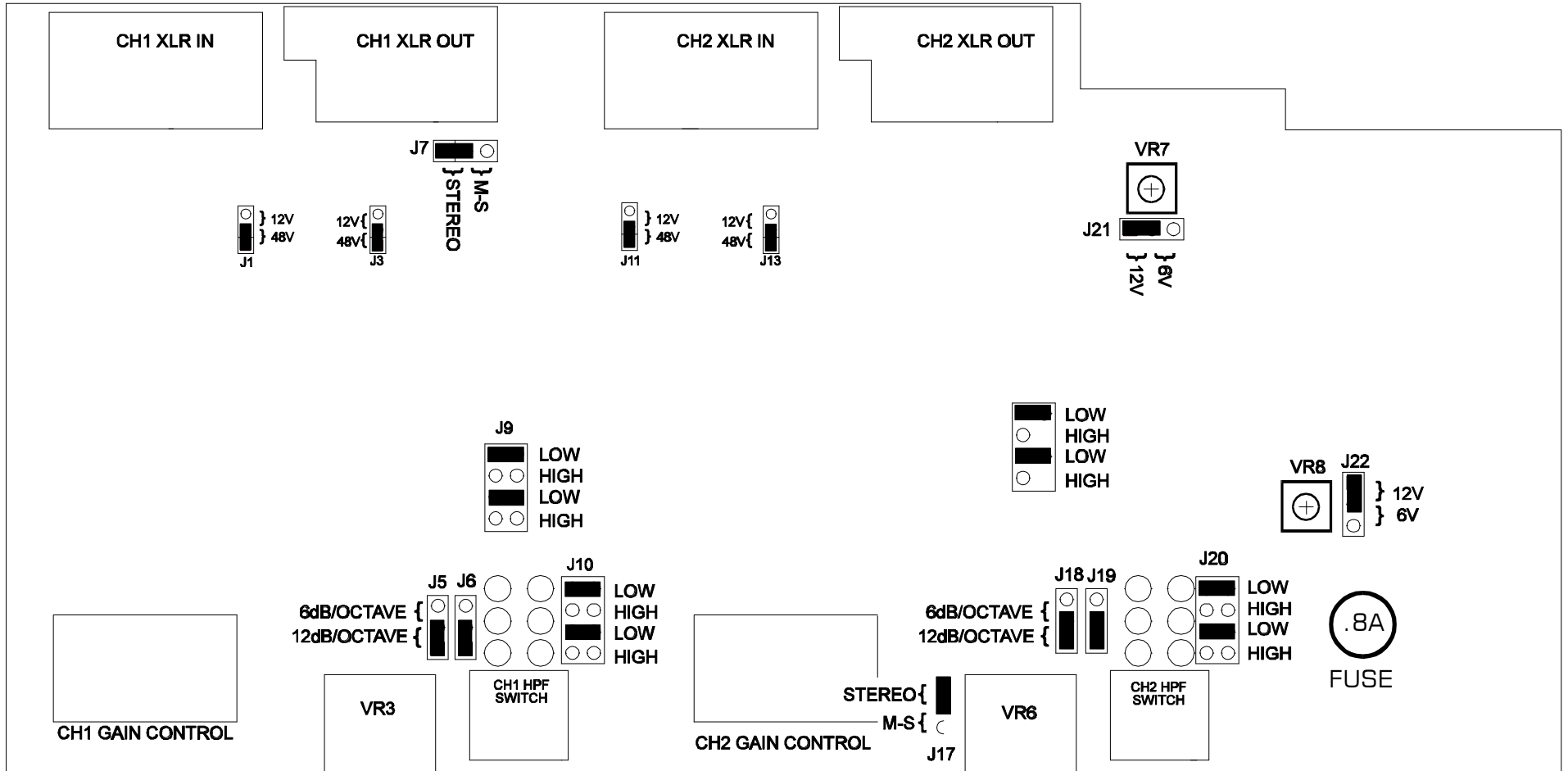
### PROCEDURE:

- Turn the V2 off and remove any power source
- Remove the top cover
- Locate J21 and move to the 6V position(see diagram on page 2 of this document)
- Replace cover



# LUNATEC V2 JUMPER LOCATIONS

FOR PREAMPLIFIERS WITH SERIAL #V055 AND ABOVE



## PREAMPLIFIER FRONT

HIGH PASS FILTER JUMPER SETTINGS				
J9,J10,J15,J20	LOW		HIGH	
HPF SWITCH POSITION	1	2	1	2
CUTOFF FREQUENCY	100Hz	50Hz	125Hz	75Hz