## SENTRY

## FR Control Circuit Calibration

Battery Voltage	Flooded /Gel Cut-in vdc	Flooded Lead- Acid/Gel cut out vdc	AMPs cut-out amps	Flooded Temp Comp	AGM Cut- in	AGM Cut-out	AMPs cut-out amps	AGM Temp Comp
12	12.5	13.9 - 14.1	4 - 6	12mV/F	12.7	14.2 - 14.4	4 - 6	12mV/F
24	25	28 - 28.25	4 - 6	24mV/F	25.4	28.4 - 28.8	4 - 6	24mV/F
32	33.4	37.5 - 38	4 - 6	32mV/F	34.2	38 - 38.4	4 - 6	32mV/F



## **Circuit Board Calibration Directions**

- 1. Turn charger on in Auto mode. Connect all 4 red sensing wires to one battery bank that allows loads to adjust battery voltage as per below.
- 2. Adjust the "cut in" potentiometer fully clockwise.
- 3. Adjust "cut out" potentiometer fully counter-clockwise.

4. You may have to add and remove loads on the batteries to allow the charger to match the voltages in the Control Circuit Calibration chart.

5. See "cut in" voltage on FR Control Circuit Calibration chart to match battery voltage and type. Adjust battery load so battery voltage matches "cut in" voltage on chart.

6. Slowly turn "cut in" counter clockwise until the charger cuts on and begins charging indicated by amber "Full Charge" light going off.

7. See "cut out" voltage on FR Control Circuit Calibration chart to match battery voltage and type.

8. With charger still on (Amber light off), monitor battery voltage unitl it matches "cut out" voltage on chart, and slowly turn "cut out" clockwise until the charger cuts off and amber "Full Charge" light turns on. Repeat step 4 to see charger "cut in" and "cut out" are at the correct voltages.