



Table 1 – Voltage Select Switch Position		
4 Voltage Setpoints (Fig. 1)		Battery Type
Position 1	27.5 V	Maintenance (D Category)
Position 2	28.0 V	Maintenance-Free (Group 31)
Position 3	28.5 V	Maintenance-Free (Group 31)
Position 4	29.0 V	Battery Isolator setpoint

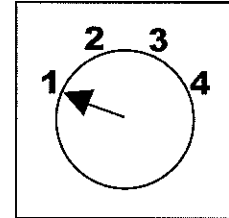


Figure 1 – 4 Voltage Setpoints

Note: On Group 31 batteries, if boiling or excessive gassing occurs with high voltage setpoint (position 3), change to medium voltage setpoint (position 2).

- Before installing, turn regulator over and select appropriate voltage setpoint for battery type (See Table 1 and Fig. 1).
- Install new regulator as described below:
 - Mount new regulator on alternator in the same position as the previous regulator.
 - Use screws and washers (if supplied), **2 or 4 depending on number of original mounting holes in alternator.** Torque regulator mounting screws to 8.5 Nm/75 lb. in.
- Plug the alternator-to-regulator harness into the regulator.
- A2-214 regulator connections:
 - Connect IGN terminal to ignition source through existing switch. Torque M5 terminal nut on regulator to 4.5 Nm/40 lb. in.
 - D+ terminal provides 28 VDC sense voltage to multiplex controller. When connecting D+ terminal to controller through a relay, the relay coil must be diode protected and rated for proper voltage. Torque M6 terminal nut on regulator to 4.5 Nm/40 lb. in.
 - Connect P terminal to tachometer or relay. P terminal taps AC voltage, typically half the charge voltage. Torque M6 terminal nut on regulator to 4.5 Nm/40 lb. in.

NOTE: If you are replacing an A2-211 regulator with an A2-214 regulator, the existing R terminal lead should now be connected to the P terminal on the new A2-214 regulator. See step above for details.
- A2-213 regulator connections:
 - Connect IGN terminal to ignition source through existing switch. Torque M5 terminal nut on regulator to 4.5 Nm/40 lb. in.
 - D+ terminal provides 28 VDC sense voltage to multiplex controller. When connecting D+ terminal to controller through a relay, the relay coil must be diode protected and rated for proper voltage. Torque M6 terminal nut on regulator to 4.5 Nm/40 lb. in.
 - Connect P terminal to tachometer or relay. P terminal taps AC voltage, typically half the charge voltage. Torque M6 terminal nut on regulator to 4.5 Nm/40 lb. in.

Note: If you are replacing an A2-205 regulator with an A2-213 regulator, make sure you connect the existing R terminal lead to the P terminal on the A2-213. The remaining D+ terminal on the A2-213 will not have a connecting cable.

If you are replacing an A2-207 regulator with an A2-213 regulator, make sure you connect the existing D+ terminal lead to the D+ terminal on the A2-213. The remaining P terminal on the A2-213 will not have a connecting cable.
- LED operation modes:
 - Green lens LED will light STEADY when regulator is energized and functioning properly.
 - Green lens LED will FLASH once every five seconds when regulator is energized and engine is not running.
 - Green lens LED will not be lit when regulator is not energized.