Table 1 – Voltage Select Switch Position

<table>
<thead>
<tr>
<th>Position</th>
<th>Voltage</th>
<th>Battery Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>27.5 V</td>
<td>Maintenance (D Category)</td>
</tr>
<tr>
<td>2</td>
<td>28.0 V</td>
<td>Maintenance-Free (Group 31)</td>
</tr>
<tr>
<td>3</td>
<td>28.5 V</td>
<td>Maintenance-Free (Group 31)</td>
</tr>
<tr>
<td>4</td>
<td>29.0 V</td>
<td>Battery Isolator setpoint</td>
</tr>
</tbody>
</table>

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

1. Before installing, turn regulator over and select appropriate voltage setpoint for battery type (See Table 1 and Fig. 1).

2. Install new regulator as described below:
   
a. Mount new regulator on alternator in the same position as the previous regulator.

b. 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.

3. Plug the alternator-to-regulator harness into the regulator.

4. A2-214 regulator connections:
   
   a. Connect IGN terminal to ignition source through existing switch. Torque M5 terminal nut on regulator to 4.5 Nm/40 lb. in.

   b. 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.

   c. 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.

   d. 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.

   e. 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.

5. A2-213 regulator connections:
   
   a. Connect IGN terminal to ignition source through existing switch. Torque M5 terminal nut on regulator to 4.5 Nm/40 lb. in.

   b. 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.

   c. 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.

   d. 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.

   e. 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.

6. LED operation modes:
   
   a. Green lens LED will light STEADY when regulator is energized and functioning properly.

   b. Green lens LED will FLASH once every five seconds when regulator is energized and engine is not running.

   c. Green lens LED will not be lit when regulator is not energized.