



C.E. Niehoff & Co.
BRUSHLESS ALTERNATORS

A2-325, A2-330 & A2-336 Regulators

Installation Instructions

Table 1 – Voltage Setpoint Switch Position

Voltage Setpoints (Fig. 1)		Battery Type
Position 1	27.5 V	Maintenance
Position 2	28.0 V	Maintenance
Position 3	28.5 V	Maintenance-Free
Position 4	29.0 V	Maintenance-Free

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

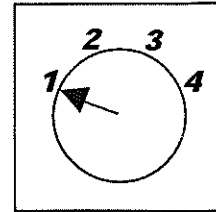


Figure 1 – Voltage Setpoints

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 regulator mounting screws supplied. Torque screws to 8.5 Nm/75 lb. in.
3. Plug the alternator-to-regulator harness into the regulator and twist connector to make sure it is securely tightened.
4. 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 can provide 28 VDC sense voltage to multiplex controller. When required, connect 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.
 - P terminal taps AC voltage, typically half the charge voltage. When required, connect P terminal to tachometer or relay. Torque M6 terminal nut on regulator to 4.5 Nm/40 lb. in.