



Follow instructions below to ensure proper installation of upgraded regulators for the following 100 Series models:

A1-115, A1-125, A1-126, A1-127, A1-150, A1-151, A1-160, A1-161, A1-163, A1-164, A1-165, C127, C166, N1028, N1029, N1030, N1034, N1035, N1041, N1042, N1043, N1046, N1051, N1052, N1053, N1055, N1056, N1058, N1059, N1060, N1061, N1062, N1063, N1065, N1066, N1067, N1068, N1071, N1072, N1074, N1087, N1088 N3035, N7083

1. Remove alternator cover and existing voltage regulator from anti-drive end (ADE) side of alternator. Also remove rectifier heatsink from drive end (DE) side of alternator.
2. From ADE side of alternator, feed non-crimped end of new green wire through slot near R terminal on new regulator until it protrudes through the DE side of alternator.

NOTICE *Green jumper wire is not required for A1-165 and N1088.*

3. Install new regulator on ADE side of alternator and connect wires as shown in Figure 1. Connect new green wire to R terminal of regulator. Torque screws to 10 in. lbs./ 1.2 Nm. and cover with RTV.

CAUTION *Do not allow Y terminal to touch alternator cover upon reassembly. Replace existing terminal with smaller terminal included in package. Install sleeve, then crimp and solder smaller terminal to wire.*

4. Reinstall rectifier heatsink on DE housing while feeding the green wire through the inside of the heatsink as shown in Figure 2. Torque mounting screws to 20 in. lbs/ 2.3 Nm.

5. Connect new green wire to rectifier heatsink phase terminal:
 - a. Locate the heatsink phase terminal closest to the green wire that has no more than two wires already attached (varies by model).
 - b. Trim green wire to required length for connection to phase terminal.
 - c. Install included sleeve on green wire and strip 0.25 in. of insulation off end of wire.
 - d. Crimp and solder included ring terminal to green wire.
 - e. Connect ring terminal to rectifier phase terminal and torque to 25 in. lbs/ 2.8 Nm.
6. On INSIDE of alternator cover, use supplied template (I10005) to cut new opening in cover:
 - a. Drill 1/8" pilot hole, then 9/16" hole.
 - b. Deburr hole to prevent damaging switch on new regulator circuit board.
7. Re-install alternator cover. Torque screws to 20 in. lbs./ 2.3 Nm. Torque nuts to 25 in. lbs./ 2.8 Nm.

Voltage Select Switch Position for A2-436 and A2-437 Regulators	
Position 1	13.8 V
Position 2	14.2 V
Position 3	14.6 V
Position 4	14.6 V

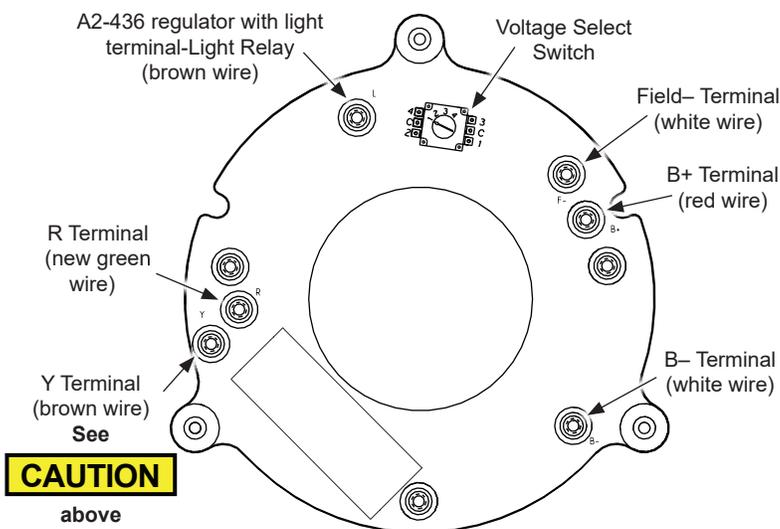


Figure 1: 100 Series ADE Side Connections

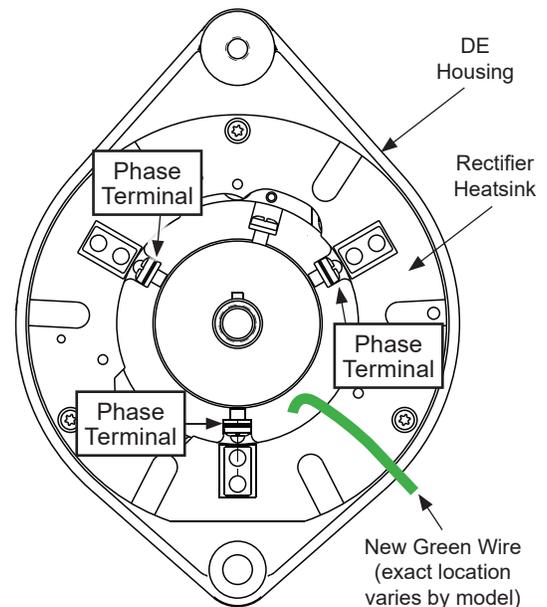


Figure 2: Typical DE Side Connections (varies by model)

If you have questions about your alternator or these instructions, or if you need to locate a Factory Authorized Service Distributor, please contact us at:
C. E. Niehoff & Co. • 2021 Lee Street • Evanston, IL 60202 USA
TEL: 800.643.4633 USA and Canada • TEL: 847.866.6030 outside USA and Canada • FAX: 847.492.1242
E-mail us at service@CENiehoff.com