



**To replace the bracket assembly on the N1611 anti-drive end (ADE) housing:**

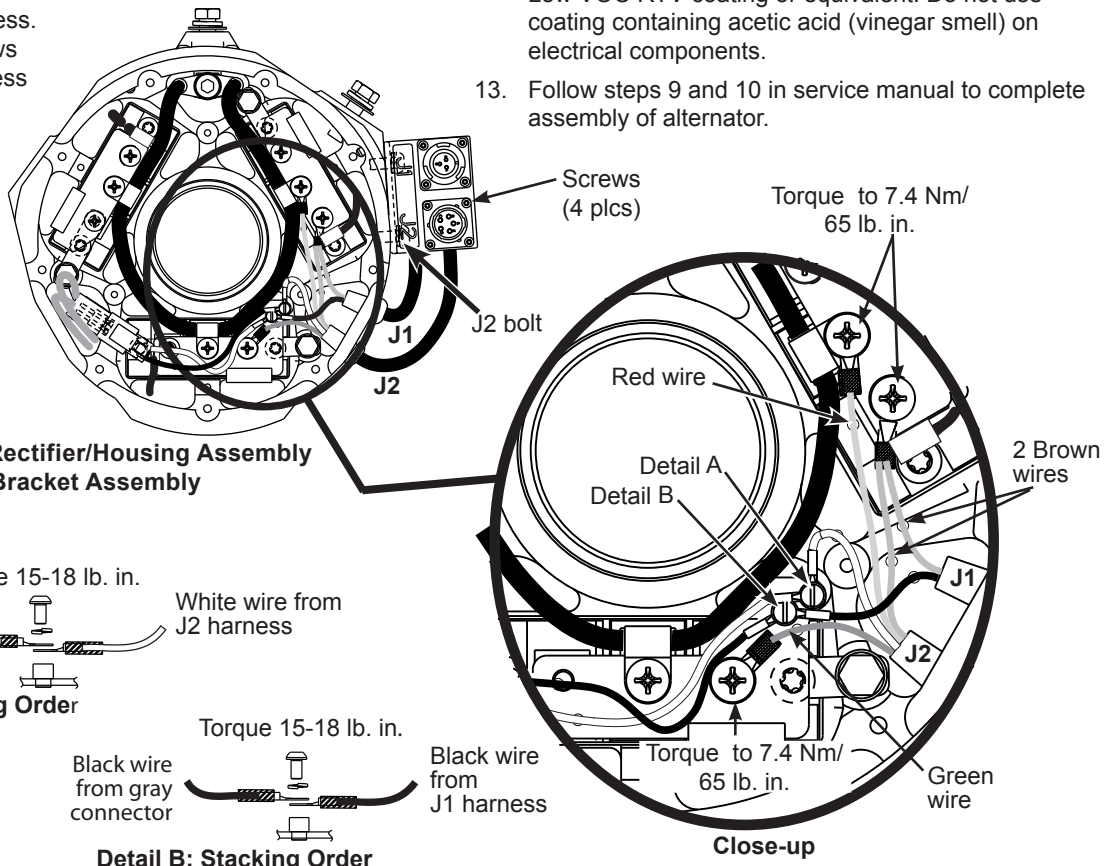
1. See N1607/N1611 Service Manual SM0030A: Follow steps 3 and 4 to uncover ADE rectifier/housing assembly.

**See Figure 1 below and:**

2. Disconnect wire terminals from both wiring harnesses at diode modules, saving hardware for reassembly.
3. Pull grommets and harness wires through holes in housing. Some wire terminal ends will need to be snipped off to clear hole diameters.
4. Loosen four screws holding J2 harness to bracket. Discard J2 harness.
5. Remove and discard bolts and lock washers attaching old bracket to housing. Be careful not to damage threads in housing when removing bolts. Remove and discard bracket with J1 harness.
6. Attach new bracket and harnesses assembly to housing:

- a. Install bracket in position, hand-tighten with one bolt and lock washer in hole nearest J1 harness.
- b. Loosen four screws holding J2 harness to new bracket. Pull harness far enough away from bracket to access the second bolt hole in the bracket.

- c. Install second bolt and lock washer in position. Torque both bolts to 13.5 Nm/120 lb. in.
  - d. Tighten four screws holding J2 harness to| bracket, torquing to 1.2 Nm/10 lb. in.
7. Install new grommets in holes in housing.
  8. Feed harness wires through grommets. Lubricate if necessary. See Figure 1.
  9. Attach new terminals to harness wires.
    - a. Field connection terminals shown in Details A and B: Insert new regular sleeves. Crimp and solder new terminals on wires. Slide regular sleeves over their soldered connections.
    - b. Remaining three connections: Insert new shrink sleeves on wires as shown in Close-up. Brown wires are combined into one shrink sleeve. Crimp and solder new terminals on wires. Slide shrink sleeves over soldered connections. Use heat gun to tighten sleeves.
  10. Clean old RTV coating from diode modules.
  11. Secure wire terminals as shown in Close-up and Details A and B. Torque screws as indicated.
  12. Coat electrical terminals with Dow Corning®1-2577 Low VOC RTV coating or equivalent. Do not use coating containing acetic acid (vinegar smell) on electrical components.
  13. Follow steps 9 and 10 in service manual to complete assembly of alternator.



**Figure 1: N1611 ADE Rectifier/Housing Assembly with N9745 Bracket Assembly**

