



Replacement Instructions

To replace any of three diode module/heat sink assemblies:

1. Remove drive end cover plate and save hardware for reassembly.
2. Remove and save the hardware attaching the defective diode module/heat sink assembly.
3. Disconnect only enough wiring attached to defective diode/heat sink assembly to facilitate replacement.
4. Remove defective Diode/heat sink assembly. Clean away debris or corrosion from housing surfaces before installing new assembly.
5. Install new diode/heat sink assembly in proper location. See Figure 1. Torque heat sink mounting screws to 11.3–13.5 Nm/100–120 lb. in.
6. Reconnect wiring removed in step 2:
 - a. Phase lead to each diode module as shown in Figure 1. Torque to 4 Nm/35 lb. in.
 - b. To B+ stud and torque screw to 28-29 Nm/ 21-22 lb. ft. From B+ wire assembly to diode module and torque screws to 4 Nm/35 lb. in.
 - c. From regulator harness to module screws and torque screws to 4 Nm/35 lb. in.
 - d. From green ground wire to heat sink and torque screw to 11.3–13.5 Nm/100–120 lb. in.
7. 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.
8. Using DMM (digital multimeter) set on diode test, connect red lead to B+ terminal on alternator and connect black lead to B– terminal on alternator. Meter should read OL (blocking). Reverse leads, meter should read less than 0.8 V (flow). If meter reads zero in either direction, recheck wiring connections and diode orientation.
9. Reattach drive end cover plate and torque hardware to 5.1 Nm/45 lb. in.

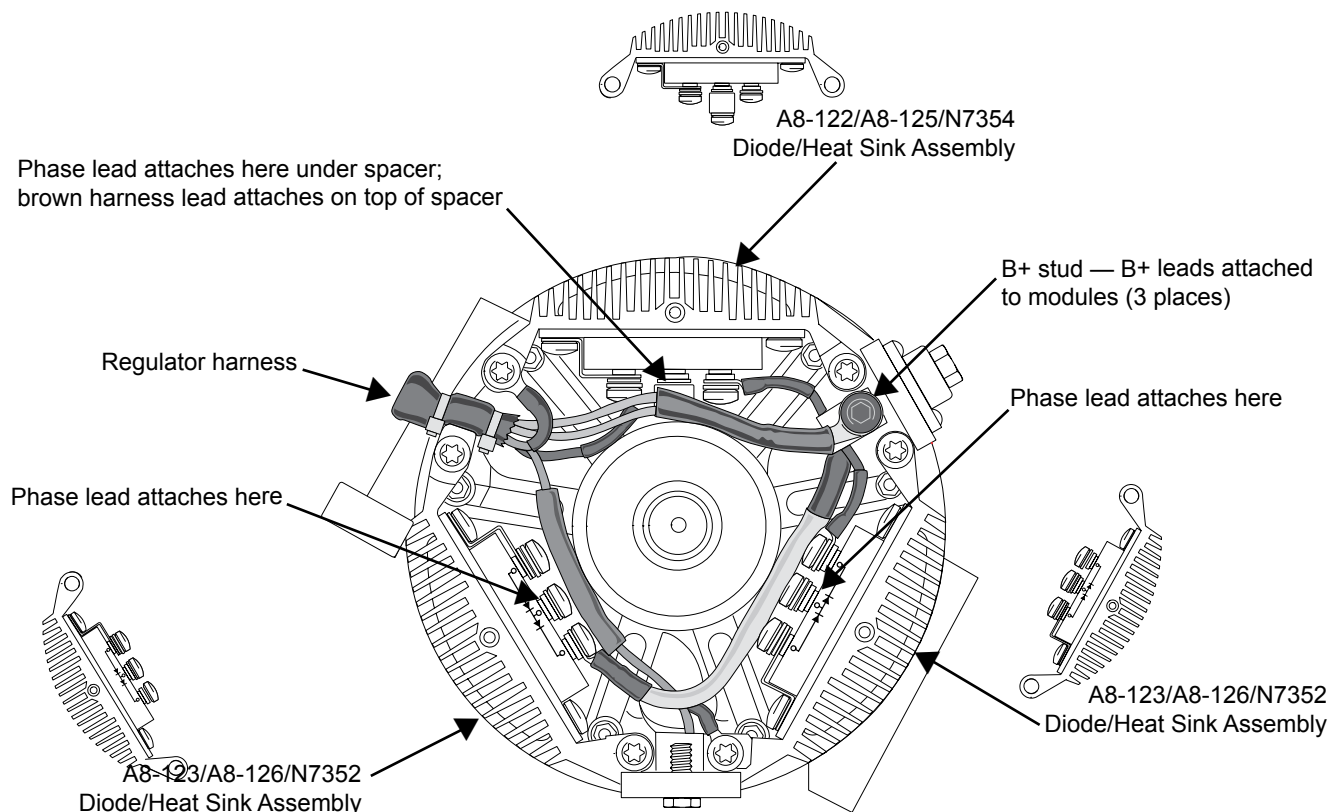


Figure 1 – Diode/Heat Sink Assemblies