

**CAUTION**

This symbol is used to indicate presence of hazards that can cause minor property damage.

1. Install alternator as shown in Figure 1:

**CAUTION**

Slip bushing located in rear mounting foot must be securely tightened against alternator mounting bracket on engine. Failure to do so can result in broken mounting feet or broken upper mounting bracket.

- a. Use hardened washers between aluminum surfaces and bolt heads and nuts.
  - b. OEM units are shipped with pulley, flat washer, and locknut installed.
  - c. Aftermarket units are shipped with shaft collar, flat washer, and locknut installed. Remove and discard shaft collar. Install pulley and furnished flat washer. Torque locknut to 163 Nm/120 lb. ft.
  - d. Follow vehicle manufacturer's recommendations for belt tension.
2. All cabling, wiring, or conduit must be supported within 305 mm/12 in. of termination on alternator.

3. Choose wire gauge capable of handling maximum alternator output with no more than 0.4 V drop on each leg from alternator to battery.
4. Regulator is furnished on OEM units and is supplied separately by request with aftermarket units. Mounting screws on regulator should be torqued to 8.5 Nm/75 lb. in. If regulator is to be remote-mounted, see separate instructions packed with extended wiring harness.
5. Make electrical connections to CEN regulator as required, using proper ring terminals (follow vehicle manufacturer's diagram and separate instructions packed with extended wiring harness when used):
  - a. Make sure alternator-to-regulator harness is plugged securely in regulator receptacle.
  - b. A2-214 regulator has P and D+ terminals with M6 studs and an IGN terminal with an M5 stud. Torque terminal nuts to 4.5 Nm/40 lb. in.
    - P terminal can tap AC voltage, typically half the charge voltage. When required, connect P terminal to tachometer or relay.
    - D+ terminal can provide 28 VDC sense voltage to multiplex controller. Maximum current from D+ can be no more than 5 amps. When required, connect D+ terminal to controller through a relay. The relay coil must be diode protected and rated for proper voltage.

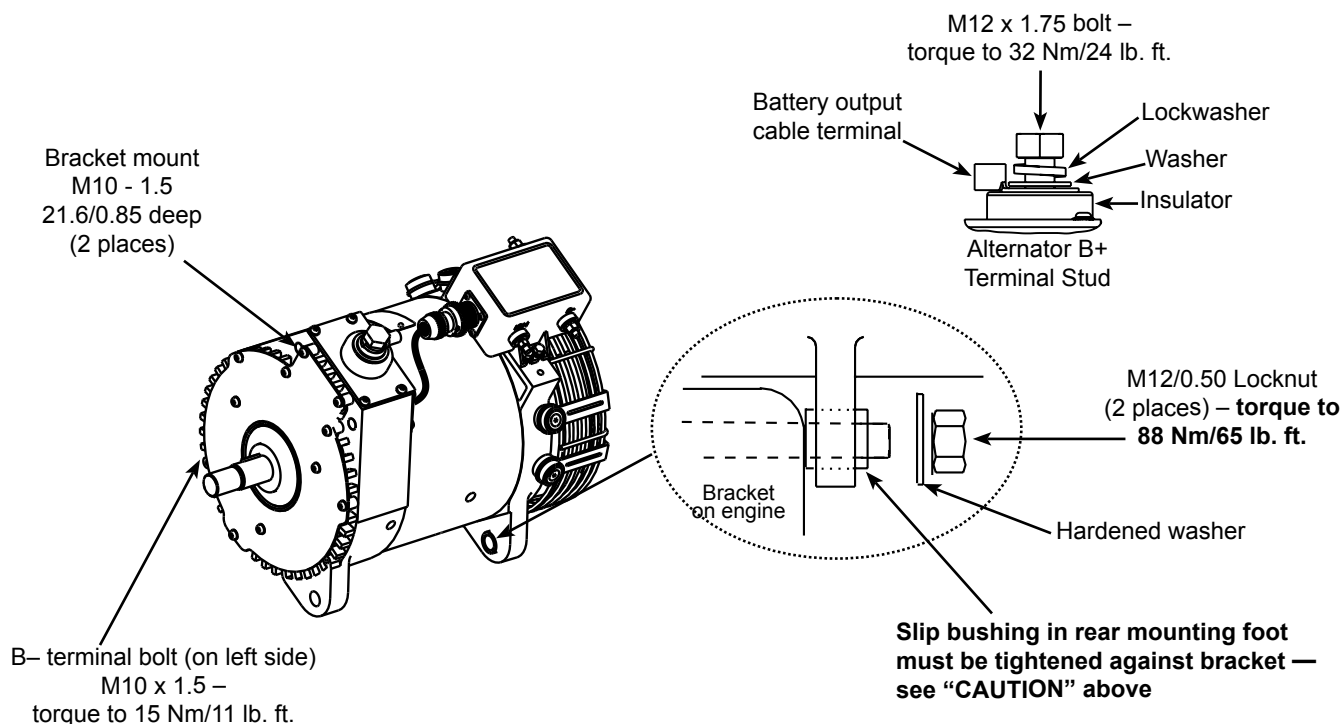


Figure 1 - Alternator Installation Details

## Please reference the following documents:

- **Alternator troubleshooting guides by alternator model at [www.CENiehoff.com](http://www.CENiehoff.com)**
- **Maintenance interval information at [www.CENiehoff.com](http://www.CENiehoff.com):**
  - SB0015—Bus Vehicles**
  - SB0014—Mining Vehicles**
  - SB0012—Fire and EMS Vehicles**
- **CEN 600 Series Alternator Service Manual SM6 from the address listed below.**
- **To order genuine CEN service parts or to locate a Factory Authorized Service Dealer, please contact:**

**C.E. Niehoff & Co.**  
2021 Lee Street • Evanston, IL 60202 USA  
TEL: 800.643.4633 USA and Canada •  
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FAX: 847.492.1242 •  
E-mail us: [sales@CENiehoff.com](mailto:sales@CENiehoff.com)  
Visit our Web site: [www.CENiehoff.com](http://www.CENiehoff.com)

