



Follow these instructions to properly install an N1380 alternator:

1. Remove nut and disc spring washer from shaft, then remove and discard shaft collar.
2. Make sure Woodruff key is securely wedged in shaft slot.
3. Install pulley, disc spring washer, and nut on shaft in that order. See Figure 1. Torque pulley nut to 163 Nm/120 lb. ft.

CAUTION Do not hammer pulley when installing pulley on shaft. Carefully slip-fit pulley over shaft to prevent shaft from moving out of place.

4. Use eyebolt to mount alternator on engine. Torque lower mounting hardware to 95 Nm/70 lb. ft. and torque upper mounting hardware near regulator to 38 Nm/29 lb. ft. or to engine manufacturer's specifications.
5. Install belt on pulley and tension belt to engine manufacturer's recommendation (typically 80-120 lbs).

CAUTION All cables must be supported within 300 mm (12 in.) to prevent twisting, loosening, and damage to terminals.

6. Connect vehicle receptacle to output receptacle shown in Figure 2.
7. Connect vehicle B- cable to alternator B- terminal. See Figure 2. Install cable hardware in stacking order shown in Figure 3. Torque B- terminal hardware to 9 Nm/80 lb. in.
8. Install regulator according to instructions on page 2.

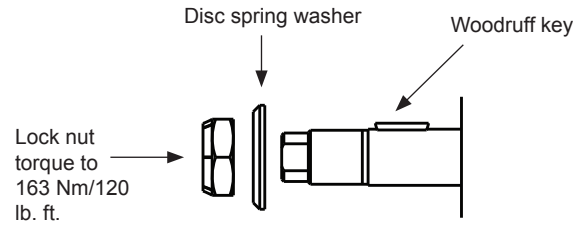


Figure 1: Pulley Installation

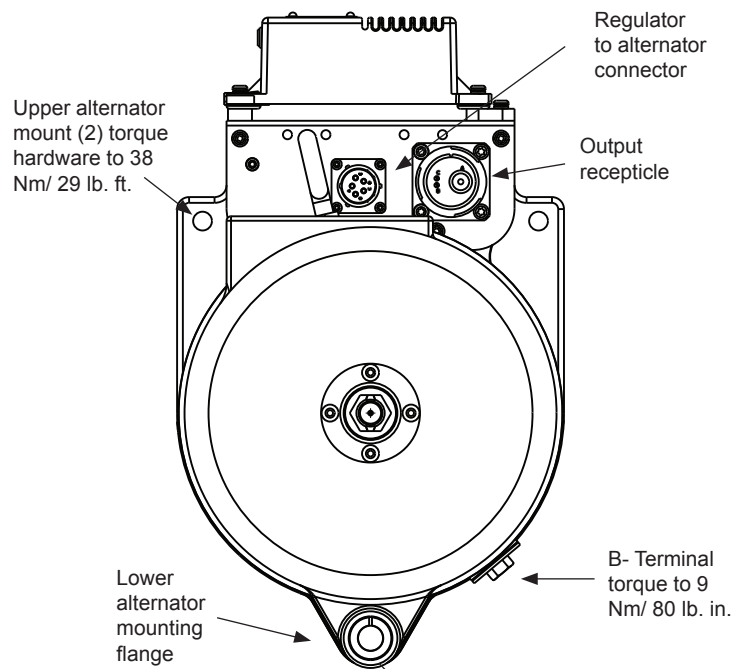


Figure 2: N1380 Installation

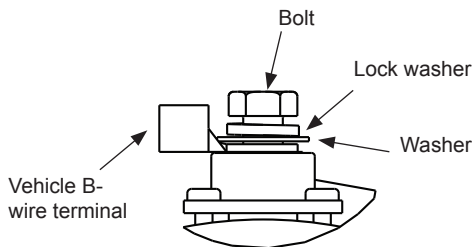
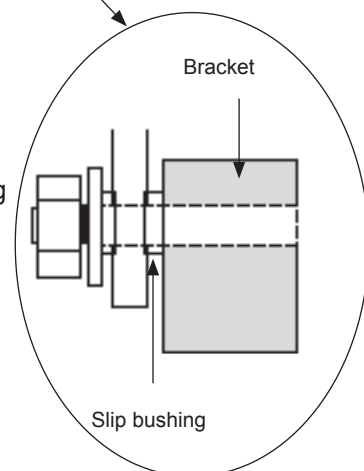


Figure 3: Terminal Stacking Order

CAUTION Failure to tighten slip bushing in rear mounting foot against mounting bracket can result in broken mounting feet or broken bracket



Bracket Installation

Align brackets tabs with screw holes on coverplate and secure with hardware. Torque screws to 3.4 Nm/30 lb. in. See Figure 4.

Regulator Installation

NOTICE

Bracket was made to fit different size regulators. Some screw holes on bracket will not be used.

1. Align regulator tabs with screw holes on bracket and secure with mounting screws. Torque screws to 8.5 Nm/75 lb. in. See Figure 5 or 6.
2. Connect regulator-to-alternator harness to receptacle on alternator.

CAUTION

All cables must be supported within 300 mm (12 in.) to prevent twisting, loosening, and damage to terminals

3. Connect J1939 temperature harness.

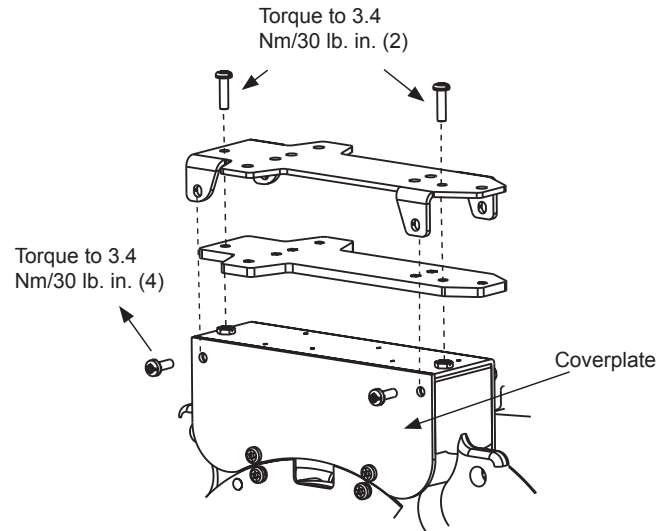
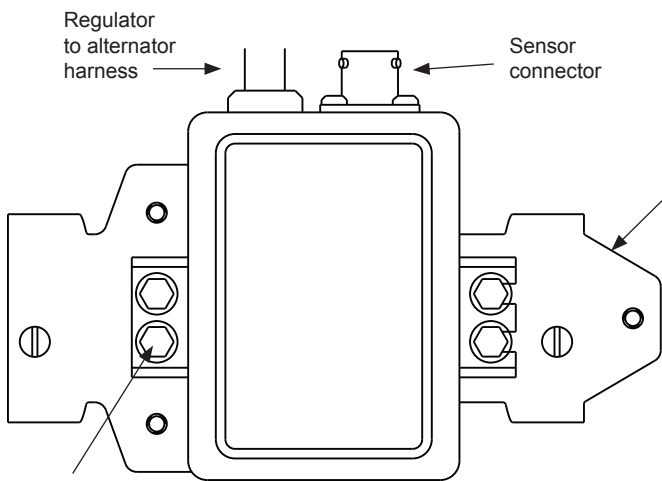


Figure 4: Bracket Installation



Torque to 8.5 Nm/
75 lb. in. (4)

Figure 5: Small Regulator Installation

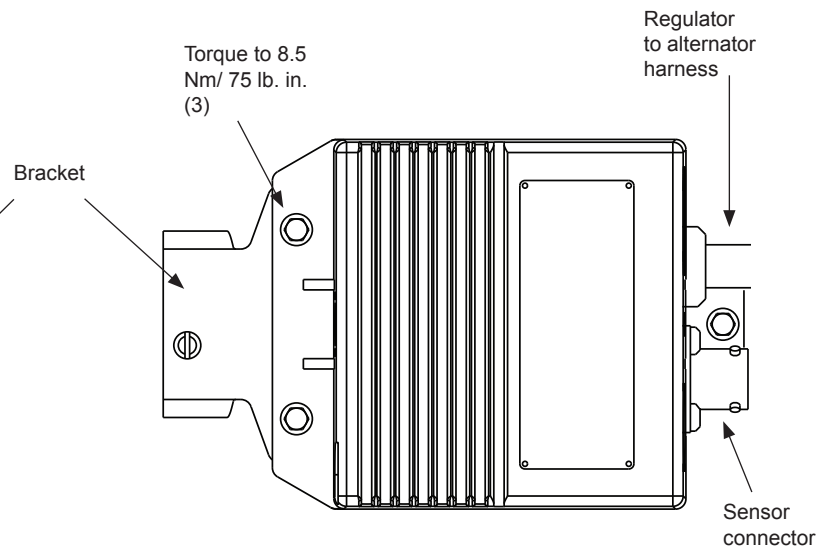


Figure 6: Large Regulator Installation

If you have questions about your alternator or these instructions, or if you need to locate a Factory Authorized Service Dealer, please contact us at:
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