Install alternator as shown in Figure 1:

1. Units are shipped with shaft collar, disc spring washer and nut. Remove and discard shaft collar. Install pulley and furnished disc spring washer. Torque nut to 135 Nm/100 lb. ft.

2. Install alternator on pad mount per vehicle manufacturer’s instructions, including hardware specifications and torque.

3. All cabling, wiring or conduit must be supported within 305 mm/12 in. of termination on alternator.

4. Choose wire gauge for B+ and B– cables capable of handling maximum alternator output with minimum voltage drop.

5. Install regulator as follows:
   - **A2-334**—install regulator on alternator and torque mounting screws to 8.5 Nm/75 lb. in. Plug alternator-to-regulator harness securely into regulator.
   - **A2-335**—install regulator in remote location as specified by customer. Plug alternator-to-regulator harness securely into 5-socket receptacle on regulator. Plug temperature sensing/voltage sensing harness from vehicle into 5-pin receptacle on regulator.

6. Make electrical connections to regulator as required, using proper ring terminals (follow vehicle manufacturer’s diagram packed with extended wiring harness when used):
   - Make sure alternator-to-regulator harness is plugged securely in regulator receptacle.
   - Torque terminal nuts with disc spring washers to 4.5 Nm/40 lb. in.
     - **P** terminal taps AC voltage, typically half the charge voltage.
     - **IGN** terminal provides external energize on A2-334 and A2-335 regulators only.

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**Figure 1**—C527 Alternator w/A2-348 Regulator (shown) Installation Details

Regulator P terminal; torque to 4.5 Nm/40 lb. in.

B+ terminal M10x1.5 Bolt – torque to 15 Nm/11 lb. ft.

Alternate mounting locations for A2-348 or A2-334 (3 different locations on circumference of shell)

B– terminal M8x1.25 Bolt – torque to 10.8 Nm/8 lb. ft.

Disc spring washer

M20x1.5 Nut torque to 135 Nm/100 lb. ft.