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. **A2-348** regulator—Factory installed on some units. On other units, install regulator on alternator and torque mounting screws to 8.5 Nm/75 lb. in.
   - Plug alternator-to-regulator harness securely into 5-socket receptacle on regulator.
   - When used, plug temperature-voltage sense harness from vehicle into 5-pin receptacle on regulator.

6. Make electrical connections to regulator as required, using proper ring terminals (follow instructions packed with extended wiring harness when used):
   a. Make sure harness(es) is plugged securely in regulator receptacle.
   b. P terminal taps AC voltage, typically half the charge voltage. If required, connect P terminal to tachometer or relay. Torque terminal nuts with disc spring washers to 4.5 Nm/40 lb. in.

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**Figure 1—C534 or C534-1 Alternator w/A2-348 Regulator Installation Details**

- **Regulator P terminal:**
  - Torque to 4.5 Nm/40 lb. in.

- **Alternator-to-regulator connector:**
  - **B+ terminal M10x1.5 Bolt** – torque to 15 Nm/11 lb. ft.
  - **Temperature-voltage sense/J1939 connector**
    - **B– terminal M8x1.25 Bolt** – torque to 10.8 Nm/8 lb. ft.
  - **M20x1.5 Nut**
    - Torque to 135 Nm/100 lb. ft.