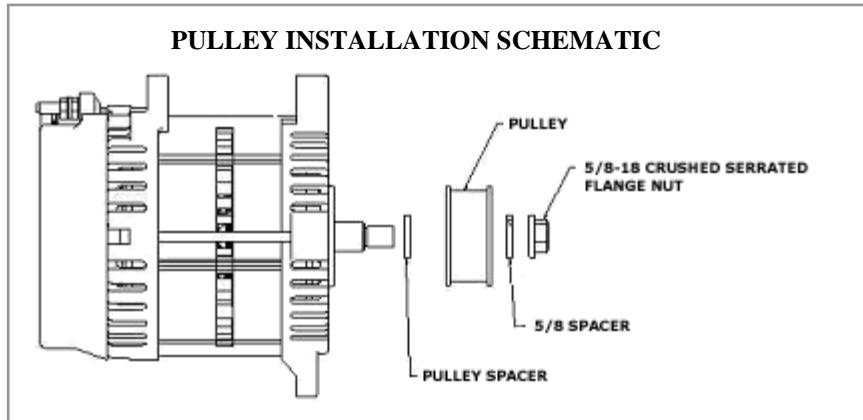


## J-305-I (J-180 Mount) Installation

The J-305-I Alternator is a replacement for J-180 mount alternators that have a center-to-center measurement of 8.5" between the drive end pivot hole and the threaded adjusting hole. The J-305-I Alternator has the standard measurement of 4" between the inside of both pivot ears. To check for clearance prior to installation, measure the distance from rear of the old

alternator pulley to the overall clearance length to determine available length for the Eco-Tech Alternator. The fit length required for Eco-Tech Alternator is 9". The existing alternator pulley will interchange and Alternator belts will align properly.



1. Disconnect the ground terminal from the battery before starting to work on the old alternator.
2. Install the pulley, (see diagram below). Tighten nut to within 70-80 ft-lbs. Note: the Eco-Tech Alternator has three internal fans. Do not install any additional external fans.
3. Install Alternator mounting bolts to engine bracket. Bolt tightening sequence: Step 1 Threaded mounting hole, Step 2 Drive end mounting hole, and Step 3 Slide bushing mounting hole.
4. Measure belt tension. Tension should not exceed 110 lbs.
5. The Eco-Tech Alternator case is ground. Therefore, both the mating surface of the Alternator and the engine brackets must be clean for proper electrical contact. In addition, the vehicle ground (-) wire should be connected to the B – (ground) of the Alternator.
6. Connect the vehicle positive cable to the Alternator B+ terminal.
7. If vehicle is equipped with an alternator driven tachometer and/or hour meter, attach the wire lead to threaded hole in rectifier end heat sink using the AC terminal package enclosed with the Alternator.
8. The connection to no charge indicator light threaded hole, as labeled on regulator heat sink, is optional.
9. Insure that wire size is adequate by checking the accompanying wire size chart.
10. Start engine. Check Alternator output voltage for proper charging.
11. For additional installation assistance, please call 1-203-230-3000.

**NOTE:** A. All Eco-Tech Alternators are equipped with soft start ramp up. This feature delays initial output approximately 3 seconds. B. Battery must be in the circuit when testing an Eco-Tech alternator.