



Pulley Installation or Replacement Instructions

CAUTION

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

To install pulley on drive end:

1. Set alternator on flat surface with drive end up.
2. Remove pulley nut, hardened washer and cardboard spacer. Discard spacer.
3. Inspect woodruff key to ensure it is properly seated.
4. Before installing pulley, make sure OEM part number on pulley faces the drive end of the alternator and should be visible once the pulley is installed.
5. Align slot in pulley with woodruff key, so that pulley partially engages key. Slide pulley in place by hand. If necessary, after pulley is aligned, use soft rubber mallet and tap pulley into place.

CAUTION

Do not forcibly hit pulley, do not misalign pulley on shaft, and do not install pulley without woodruff key in place on shaft. Doing any of these will damage pulley and bearing and cause improper installation of alternator on vehicle.

6. Fasten with hardened washer and pulley nut. Torque nut to 162.7 Nm/120 lb. ft. The N5020 pulley tool can be used to properly torque the pulley. See Figure 1b. If tool is not available, hold pulley in table vise to torque pulley nut.

To replace pulley on existing alternator:

1. Remove alternator assembly from the vehicle following procedures in vehicle service manual.
2. Install N5020 pulley tool or place pulley in vise.
3. Remove pulley nut and washer.
4. Remove pulley from shaft by hand. If necessary, use an appropriate puller that will not damage pulley or shaft.

CAUTION

Striking pulley with hard-headed hammer can damage bearing.

5. Clean debris and corrosion from alternator shaft with wire brush or scouring pad.
6. See instructions above to install new pulley.

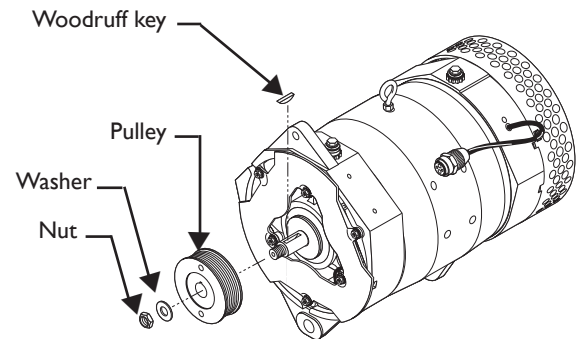


Figure 1a— DE Pulley Assembly

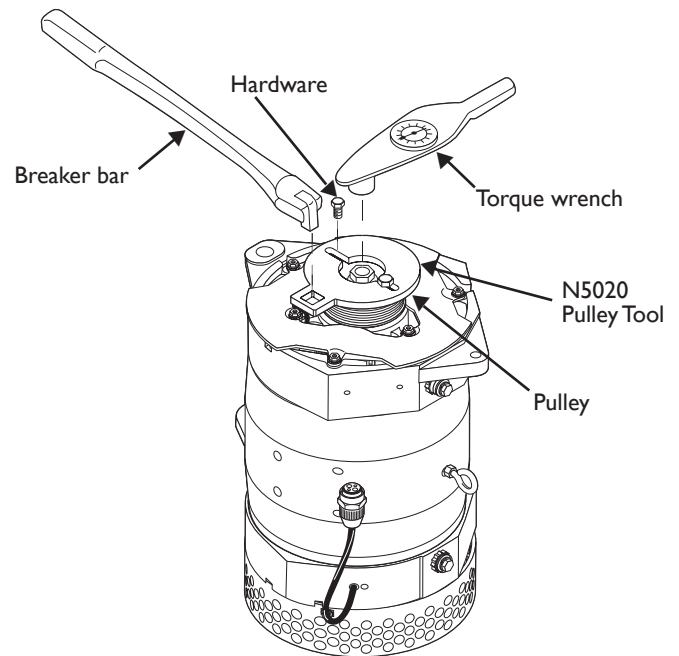


Figure 1b— Pulley Assembly Using Pulley Tool