

# ALTERNATOR PULLEY INSTALLATION INSTRUCTIONS



2401 Dutch Valley Dr. ~ Knoxville, TN 37918  
865/688-5953 [fax] 865/281-9844

## **If your alternator has an external fan:**

1. To remove the alternator pulley, use an impact wrench to loosen the nut with one hand, while holding the alternator pulley with the other. It is recommended that protective gloves and eyewear be used. The pulley nut uses standard, right-hand threads. So to remove, rotate in a counter-clockwise direction.

*NOTE: Most racing alternators are shipped without a pulley. These alternators have a spacer installed between the nut and bearing to hold the rotor forward, preventing the internal parts from becoming misaligned and rubbing. When installing the pulley, this spacer should be removed and discarded.*

2. Install the new pulley, lock washer, and nut by hand.
3. Tighten the nut with an impact wrench until the lock washer is completely closed and the nut is tight (about 70 ft-lbs). Do not over tighten.

## **If your alternator has an internal fan:**

1. To remove the alternator pulley, use an impact wrench to loosen the nut with one hand, while holding the alternator pulley with the other. It is recommended that protective gloves and eyewear be used. The pulley nut uses standard, right-hand threads. So to remove, rotate in a counter-clockwise direction.

*NOTE: Most racing alternators are shipped without a pulley. These alternators have a spacer installed between the nut and bearing to hold the rotor forward, preventing the internal parts from becoming misaligned and rubbing. When installing the pulley, this spacer should be removed and discarded.*

2. Install the new pulley, lock washer, and nut by hand.

*NOTE: Many internal fan alternators use a self-locking nut that does not utilize a separate lock washer.*

3. Tighten the nut with an impact wrench until lock washer is completely closed and the nut is tight. Do not over tighten.

*NOTE: Typical pulleys are designed for a standard 17mm alternator shaft. Powermaster's smaller Denso racing units have a 15mm shaft and require installation of the adapter bushing supplied with all racing style alternator pulleys.*

## **Finishing Touch Kits**

If installing a Powermaster Finish Touch Kit, follow the above instructions for pulley and fan installation. To install the pulley cover, first insert the supplied rubber O-ring into the notch located inside the pulley near the nut. Next, press the pulley cover onto the pulley. The O-ring should firmly lock the pulley cover into place.



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## **PULLEY CHANGING INSTRUCTIONS**

- 1. To remove the alternator pulley, with one hand use an impact wrench to loosen the nut, while holding the alternator fan with the other. It is recommended that protective gloves and eyewear be used. The pulley nut uses standard, right-hand threads, so to remove, rotate in a counter-clockwise direction.**
- 2. Install new pulley, lock washer, and nut by hand.**
- 3. Tighten nut with impact wrench until lock washer is completely closed and nut is tight. Do not over tighten.**