



0%, 2%, 3% and 4% Oversized Lightened Crank Pulley

083006

Thank you for purchasing the ALTA Performance lightened crank pulley. Please read through all the instructions before performing the installation. Persons experienced in the proper operation of MINI engine systems and components should only perform this installation.

NOTE: THE LARGER SIZE PULLEYS ARE DESIGNED FOR "OFF-ROAD" USE ONLY! CHECK WITH FEDERAL AND LOCAL AUTHORITIES PRIOR TO INSTALLATION. ALTA PERFORMANCE IS NOT RESPONSIBLE FOR REPAIRS NECESSARY AS A RESULT OF MIS-INSTALLATION OR DAMAGE OF SUPERCHARGER OR ENGINE.

- 1) Remove factory crank pulley using factory approved methods and factory available puller. Clean exposed crankshaft of any grease or oil.
- 2) ALTA crank pulley is installed identically to the factory part. Press onto the crankshaft using factory installation kit and tighten bolt to 84.8ft-lbs. **Option:** Heating pulley in an oven to 300 degrees F, will allow pulley to slide on to nose of crank with ease. This method requires the pulley to be heated then **immediately** installed with no delay. If this method is used for installation, use proper hand protection.
- 3) Before installing serpentine belt, determine what belt is needed using serpentine belt pulley matrix. The numbers supplied are NAPA part numbers and can be cross-referenced to other manufacturers.
- 4) Install belt using factory tensioner and continue to follow factory service manual.

CRANK PULLEY SIZE

	Stock 0% Crank Pulley	2% Oversized	3% Oversized	4% Oversized
Stock Supercharger Pulley	Stock Belt	Stock Belt	Stock Belt	NAPA Belt #060547
15% Supercharger Pulley	Stock or NAPA Belt #060539	Stock Belt	Stock Belt	Stock Belt
17% Supercharger Pulley	NAPA Belt #060539	NAPA Belt #060539	NAPA Belt #060539	Stock Belt
19% Supercharger Pulley	NAPA Belt #060535	NAPA Belt #060539	NAPA Belt #060539	NAPA Belt #060539

**SUPERCHARGER
PULLEY SIZE**

NOTE: Squealing of the belt is not normal. Incorrect belt size or a faulty belt tensioner generally causes this. Re-check belt and belt tensioner for defects. If car came equipped with correct size belt and belt has more than 15K miles, a NEW serpentine belt is highly recommended.

NOTE: OVERSIZED CRANK PULLEY CUSTOMERS WILL NOTICE A HIGHER LEVEL OF ENGINE NOISE AND SUPERCHARGER WHINE. THIS IS A NORMAL BYPRODUCT OF PULLEY INSTALLATION AS THE SUPERCHARGER IS SPINNING AT A HIGHER RATE OF SPEED. AS WITH ALL HIGH PERFORMANCE MODIFICATIONS USE OF PREMIUM FUEL IS REQUIRED WITH THESE PULLEYS.

ALTA SPECIAL NOTE:

Please treat the larger crank pulleys like a smaller SC. The ultimate SC pulley size can be calculated by using this formula: SuperChargerSize+CrankPulleySize=Desired SC pulley size

Example: 15% reduction SC pulley+ 3% overdrive crank pulley=18% supercharger pulley reduction.

When crank pulley/supercharger pulley combo adds up to 17% or more, the factory redline of the engine must not be exceeded. This is important for long SC life. Any increase in supercharger speed beyond 17% total reduction will lessen the useful life of the supercharger.

For questions & comments please contact
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