



## **R56 Crank Pulley**

07/08/10

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.

**WARNING:** This part is designed, manufactured, and sold solely for use on off-road and racing vehicles not controlled by federal and or local emissions laws. It is not intended for use on vehicles that operate on public streets and highways. Use of this part on emissions controlled vehicles may be in violation of federal or local law! ASMC, LTD. is not responsible for any damages as a result of misuse of this part. Check your local laws prior to use or installation.

### ***SPECIAL NOTES:***

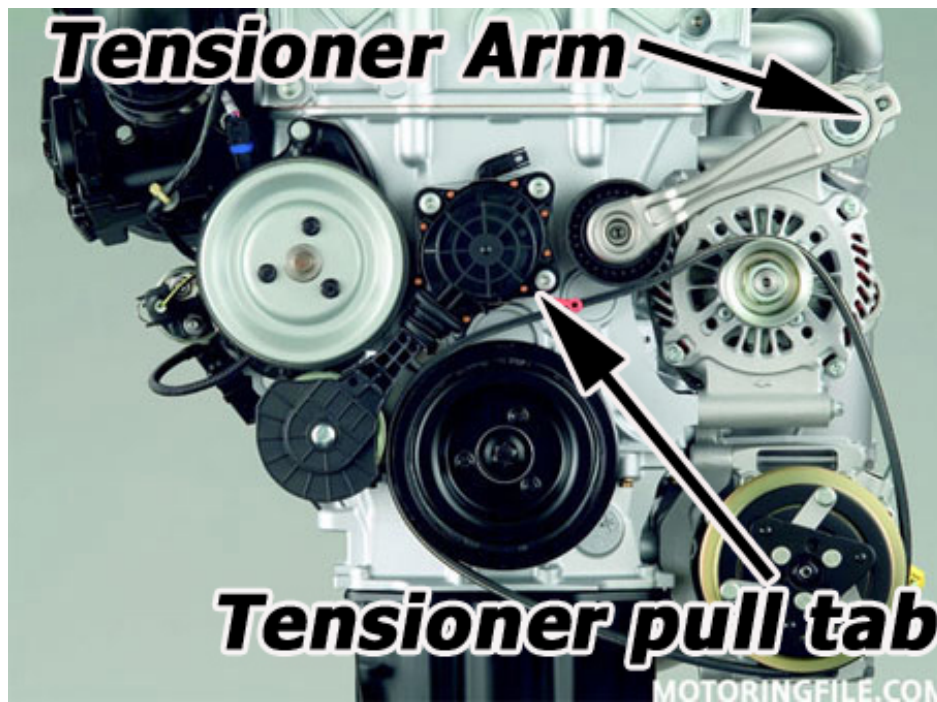
- Use of the factory service manual, can be very helpful during the installation. These can be purchased as the dealership, or online. <http://www.realoem.com> has diagrams for the entire car, which can also be helpful.
- It is critical that all bolts and nuts are tightened, improper tightening can cause serious damage.
- You will need a special 13/16" or 21mm 12pt box wrench and an E10 Socket to complete installation.

### ***Parts Included with the ALTA R56 Crank Pulley:***

- (1) ALTA R56 Crank pulley 0% size.

Checked By \_\_\_\_\_

- 1) Remove factory crank pulley using factory approved methods and factory service manual available puller. Below are some special notes to help the do-it-yourself installer.
- 2) Jack up front of car using jack and jack stands. Never fully support car with jack only, death or injury can occur.
- 3) Remove right side wheel from car.
- 4) Remove inner wheel well liner. Locate (7) fasteners holding inner liner to car. One is located on bottom of car.
- 5) Open hood and locate tensioner arm. On end of tensioner arm is a 13/16" or 21mm 12point hex. Put wrench over end and pull towards front of car to release tension on belt. Remove belt from either AC pulley or from the alternator pulley. NOTE: It helps to have a second person to help with removal.
- 6) Inside wheel well area, locate water pump tensioner. Then locate small tab on tensioner and pull tab out. When tab is pulled out, the tensioner pulley moves away from crank pulley. This allows the belt to be removed from crank pulley when belt has no tension.



- 7) Remove (3) bolts securing crank pulley to engine, using an E10 socket. These are a special star type socket that may need to be ordered from an autoparts store.
- 8) ALTA crank pulley is installed identically to the factory part **WITH LOGO SIDE (THIS SIDE OUT) FACING OUT**. Slide over nose of crank and install OEM bolts and tighten bolts to 22ft-lbs.
- 9) Before installing belt, determine if belt needs to be replaced.
- 10) Belt is installed in same manner as OEM belt. Make sure to pull tab to release water pump tensioner pulley from crank pulley. Then wrap belt around AC pulley and Alternator pulley while making sure to have someone pulling tension from Tensioner arm.
- 11) Once belt is routed properly push Tensioner pull tab back into water pump pulley tensioner and start car. Ensure pulley is running straight and true and that belt is fully installed around all pulleys. Stop engine and recheck bolts.
- 12) Reinstall fender liner into wheel well and install fittings removed earlier.
- 13) Reinstall wheels and lower car from jackstands. Take car for test drive to ensure crank pulleys

**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.

**For questions & comments please contact**

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