

BBK PERFORMANCE LLC
3060 Performance Circle
Deland, FL 32724

For any questions, email us:
TECH@BBKPERFORMANCE.COM



INSTALLATION INSTRUCTIONS - INS102

SFI UNDERDRIVE PULLEY KIT

Part # 1653 // 2005 - 2009 Mustang GT V8 4.6L



SPECIAL TOOLS REQUIRED: Impact Gun/Puller Tool



INSTALL TIME: Approximately 2 hours.



DIFFICULTY: Average.



WARNING! ALLOW ENGINE TO COOL BEFORE INSTALLATION.

MADE IN U.S.A.

IMPORTANT: All appropriate safety equipment and gear must be used during the installation of this or any BBK Performance products or any time you work on a vehicle. BBK Performance accepts no responsibility for injuries or damage caused by or during the installation of this product.

UPDATED LAST: March 2019

FOLLOW THESE INSTRUCTIONS CAREFULLY TO ENSURE CORRECT FITMENT AND OPERATION

INCLUDED IN THIS KIT

Water pump pulley, crank balancer, and installation bolt.

STEP 1

Loosen the four water pump pulley bolts.

STEP 2

Remove the serpentine belt by inserting the head of a 1/2" ratchet into the square hole in the belt tensioner and pushing down (rotating it clockwise) then pulling the belt off of one of the pulleys.

STEP 3

Remove the water pump pulley.

STEP 4



STEP 4 (CONT.)

Remove the crank bolt using an 18mm socket on an impact wrench (if your impact wrench is too big you may need to remove the radiator fan to access the bolt straight on).

STEP 5

Remove the washer from the bolt and finger tighten the bolt back into the crank snout.

STEP 6



The stock balancer has three perches cast into it to facilitate use of a 3 prong puller tool. Hook the 3 prongs under the perches and use the bolt head as a pressure point for the 3 prong puller tool. Tighten the drive bolt on the puller tool until the balancer comes off of the crank snout completely.

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STEP 7

Inspect crank snout to ensure there are no burrs or rust, if required polish with very fine emery paper or steel wool, wash clean.

STEP 8

Apply a light bead of black RTV to the keyway of the BBK damper then locate the balancer onto the crankshaft lining up the crank snout key into the keyway slot in the balancer.

STEP 9

Place the supplied M-12 x 60mm bolt through the original washer and tighten it to pull the balancer onto the crank snout until the stock bolt can reach.

**DO NOT TIGHTEN THE SUPPLIED BOLT ALL THE WAY!
IT IS ONLY THERE TO PULL THE BALANCER ONTO THE CRANK SNOUT
UNTIL THE ORIGINAL BOLT CAN REACH.**



Once the original bolt can be threaded in safely, remove the supplied bolt and place the original bolt through the original washer and tighten it until the balancer is fully engaged on the crank snout.

STEP 10

Follow the Ford torque specs (listed below) to complete the balancer installation.

Step 1 Torque to 66 lb-ft

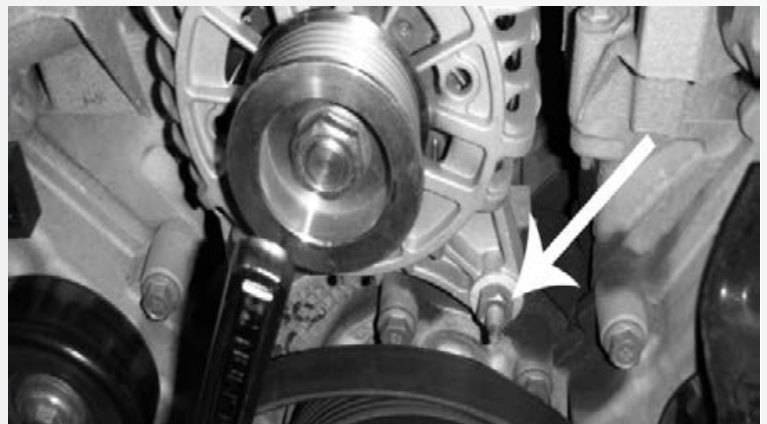
Step 2 Loosen bolt 1 full turn

Step 3 Torque to 37 lb-ft

Step 4 Tighten bolt an additional 90°

On automatic transmission cars, you may need to keep the engine from turning while tightening the balancer by removing the inspection cover on the front driver side of the transmission and holding the torque converter with a 14mm wrench.

STEP 11



Before installing the BBK Water Pump Pulley the stud that supports the bottom right of the alternator needs to be removed and replaced with the supplied bolt. Now install the BBK Water Pump Pulley using the original bolts.

STEP 12

Reinstall the serpentine belt following the original routing.

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