



'96-04 V-8 Mustang SFI Approved Pulleys Part #'s 1564 & 1608

INSTALLATION INSTRUCTIONS

Included in this kit: Alternator pulley, water pump pulley, crank balancer, and installation bolt.

ATTENTION !

This installation requires the use of an impact wrench and a balancer puller tool.

- Step 1** Visually identify which pulley/pump you have using the included info sheet.
- Step 2** Loosen the alternator pulley nut with an impact wrench.
- Step 3** Loosen the four water pump pulley bolts.
- Step 4** 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 clock-wise) then pulling the belt off of one of the pulleys.
- Step 5** Remove the water pump pulley.
- Step 6** Remove the crank bolt using 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 7** Remove the washer from the bolt and finger tighten the bolt back into the crank snout.
- Step 8** The stock balancer will either have three perches cast into it for a 3 prong puller tool, or 3 threaded bolt holes to facilitate the use of a flat (plate style) puller tool. Attach the puller tool to the balancer and use the head of the stock crank bolt as a pressure point for the puller tool. Tighten the drive bolt on the puller tool until the balancer comes off of the crank snout completely.
- Step 9** 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 10** 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 key-way slot in the balancer.
- Step 11** 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 12** Follow the Ford torque specs to complete the balancer installation.
- 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 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°



Step 13 Install the BBK water pump pulley using the original bolts.

Step 14 Install the BBK alternator pulley using the appropriate one of the two supplied spacers to achieve proper belt alignment. Use the impact wrench on the original nut to tighten.

Note: *Install the alternator pulley with the shallow side facing the alternator.*

Step 15 Reinstall the serpentine belt following the original routing.



Remove the stock bolt.



Use a three prong puller.



Supplied bolt vs. stock bolt.



Completed installation.

Identification Guide for 4.6L Water Pump Pulleys

Visually identify which water pump pulley you have before installing regardless of model year. The early water pump pulley had a convex or "bowed-out" face and the pulley on the later water pump has a concave or "pressed-in face". There is no exact changeover date for the pump and pulley. Supposedly the water pump changeover occurred in January of 2000, but we have seen cars with identical January build dates and different water pumps and pulleys. We have also seen the early design pulleys used on a few 2002 models,

Refer to the pictures below to determine which pulley design you have. Since there is no definitive answer as to the time line or model years.



EARLY DESIGN – BBK1564



Pump Pulley #MAS176



LATE DESIGN – BBK1608



Pump Pulley #MAS178

Please visit us at www.BBKPERFORMANCE.com to view a fully photographed installation of this and the many other BBK products available to help maximize the performance potential of your vehicle.