



Rogue Engineering E39 M5 Power Pulley Installation Directions

Thank you for purchasing the Rogue Engineering E39 M5 Power Pulleys. Please seek professional help for installation if you are unsure about the procedure listed below.

Included Parts

- Four (4) Rogue Engineering Power Pulleys
 - Replacement water pump pulley
 - Replacement power steering pulley (note orientation sticker)
 - Replacement crankshaft pulley
 - Replacement tensioner pulley
- Replacement factory belt (stock size is used)
- Replacement A/C belt (stock size is used)

Recommended Tools

- Metric sockets and ratchet
- Small flat bladed screwdriver
- T50 Torx Bit
- Fan clutch wrench (and water pump wrench)

Installation Notes

Directions shown are specifically for the 2000-2003 E39 M5.

During this installation, it would be a good time to replace the factory A/C belt if required. The BMW factory p/n is 11 28 7 833 266.

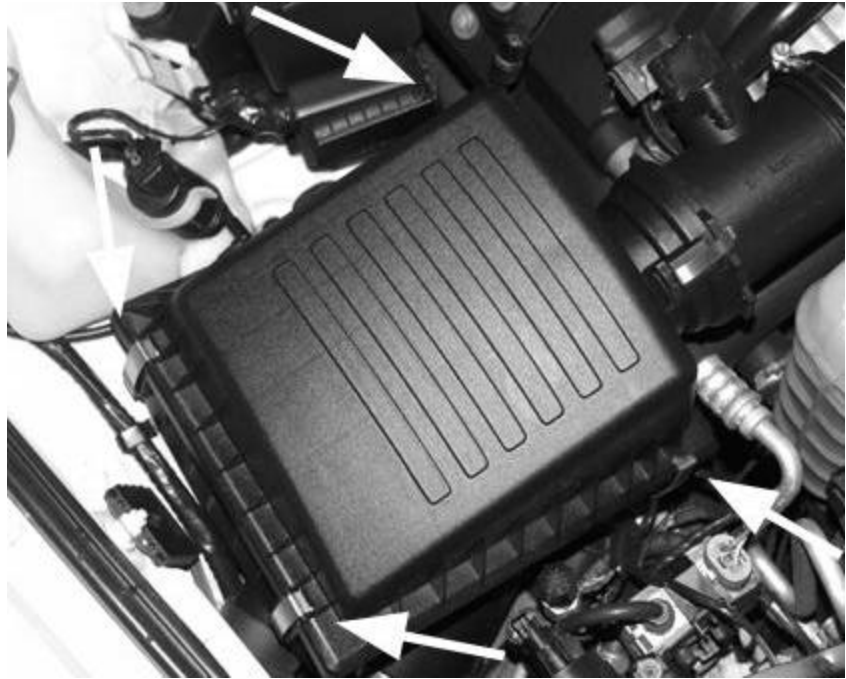
Begin installation by disconnecting the MAF sensor connectors (both sides)



Loosen the hose clamps attached to the intake plenum (both sides).



Unclip the four (4) steel clips holding the top of the airbox (both sides).



Remove the entire assembly and put aside (both sides).



Using a 32mm wrench,
loosen the clutch fan.
Remember, it has left hand
threads!



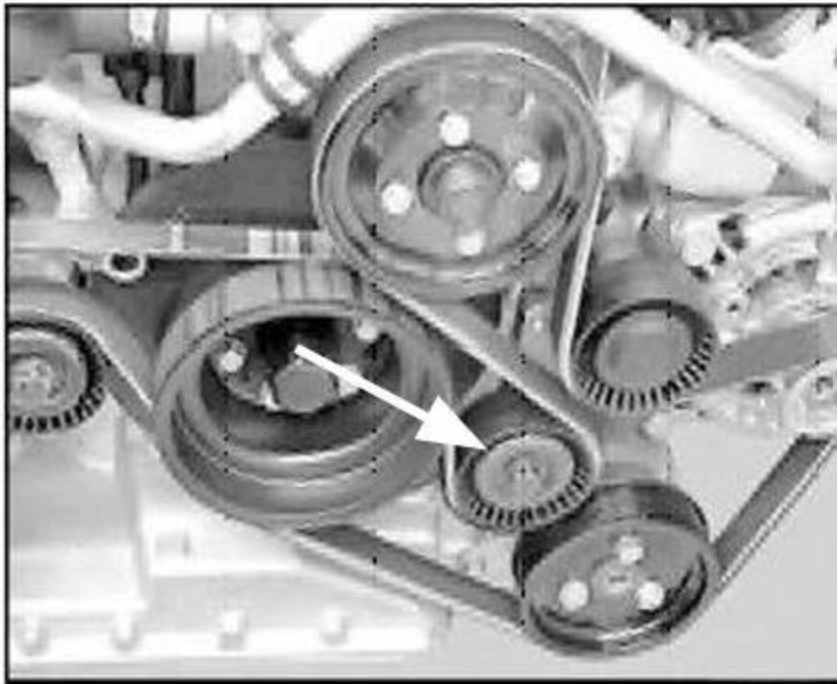
Loosen the four (4) 10mm
bolts holding on the water
pump pulley.

Loosen the three (3) 13mm
bolts holding on the power
steering pulley.

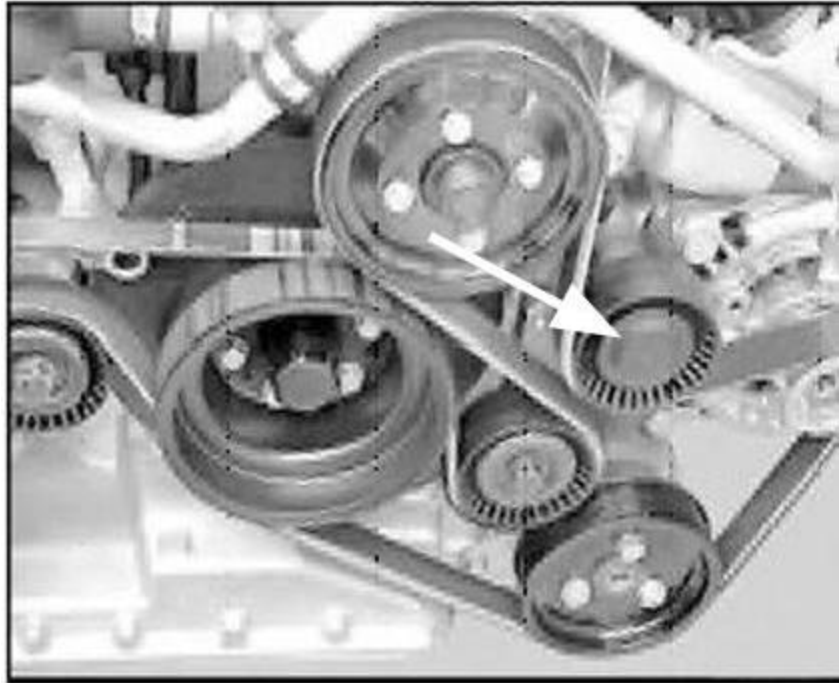
Using a 15mm socket and
breaker bar, relieve tension
on the tension bracket and
remove the factory belt.

Remove the factory A/C belt
in a similar fashion.

***Do not remove bolts or
power steering pump
pulley at this time! Only
loosen them!***



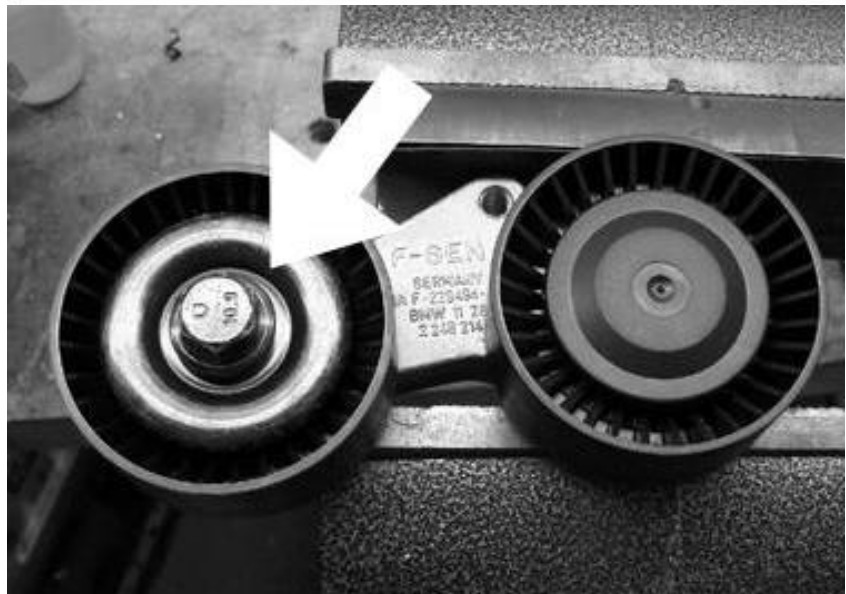
Remove the factory pulley tensioner bracket by removing the plastic cover. This will expose a T-50 Torx bolt. Remove this bolt as well as the 13mm nut and washer holding on the piston.



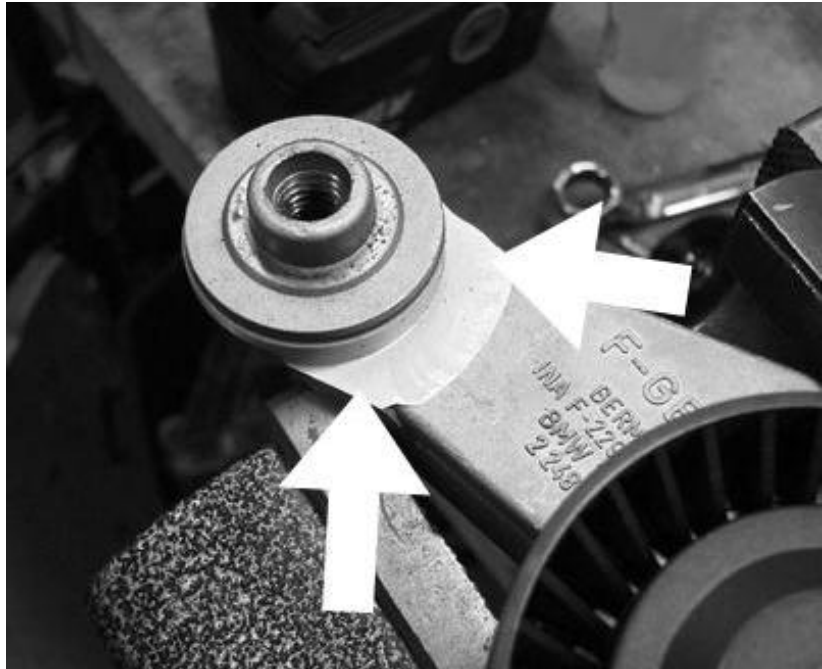
Remove factory tensioner bracket from vehicle using 13mm socket and T50 torx bit.

Remove piston from back of tensioner bracket.

Secure tensioner bracket in vice and remove bolt holding on factory pulley. This uses a 15mm socket for removal. **WARNING!** Factory threadlock used, so air tools make quick work of this step.



With the pulley removed, use a file or other method to remove material under the pulley mount (indicated by arrows) so that the Rogue Engineering supplied tensioner pulley can be installed. Make sure the pulley can spin freely before securing.



Once satisfied there is enough clearance, secure the new pulley with the supplied washer and bolt (17mm hex head) using threadlock on the threads (indicated by the arrow).



Completely remove the water pump, crank, and power steering pulley.

When installing the power steering pulley, please note that there is a label indicating which side should face the engine.



Install Rogue Engineering Power Pulleys, using factory bolts. Tighten to no more than 10Nm (7-8 lb. Ft). Install supplied new tensioner bracket, with piston attached.

Reinstall A/C belt.

Using supplied drive belt, reinstall drive belt onto pulley system, making sure that it is correctly routed.

Reinstall fan.

Reinstall tubing, MAF and airbox assemblies in reverse order.

Once installed, start car to ensure everything is working properly.