

MB GPW G503 WWII Jeep Replace Crankshaft Seal on Timing Chain cover and Crankshaft Pulley

This article shows has multiple purposes, if you need to replace your crank shaft pulley, or the crankshaft pulley seal on the timing chain cover.



Crankshaft Pulleys or Crankshaft seals will fail over time. In this article we need to replace the Crankshaft pulley and the crankshaft seal behind the timing chaing. Here you see a typical pulley that has recently broken over time.



Since we had a little oil leakage from this area anyway, the goal is to fix the problem completely. Which means, we need to take the timing cover off in order to get to replace the crankshaft seal. We start by disconnecting the oil line.

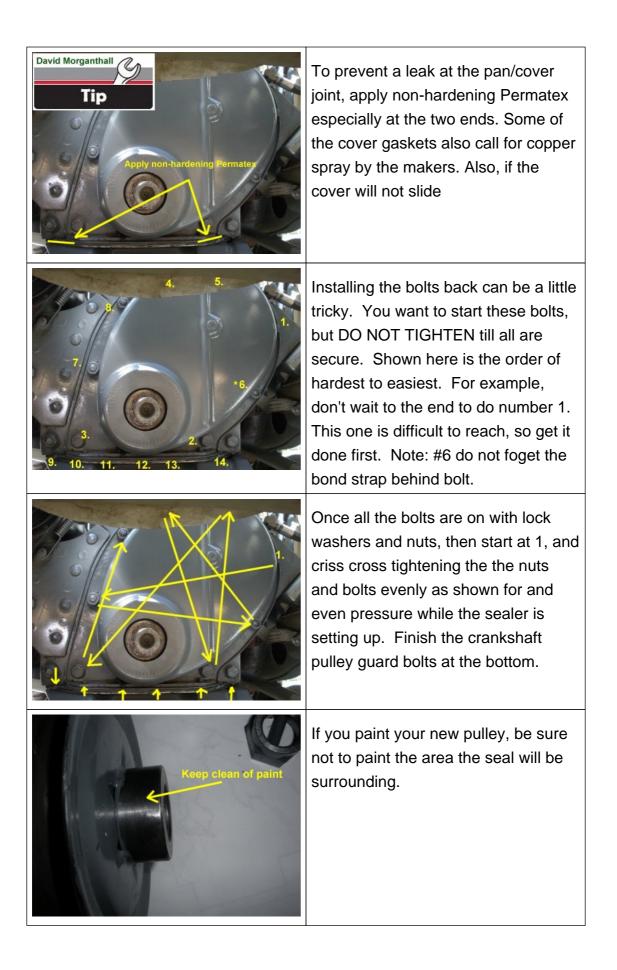


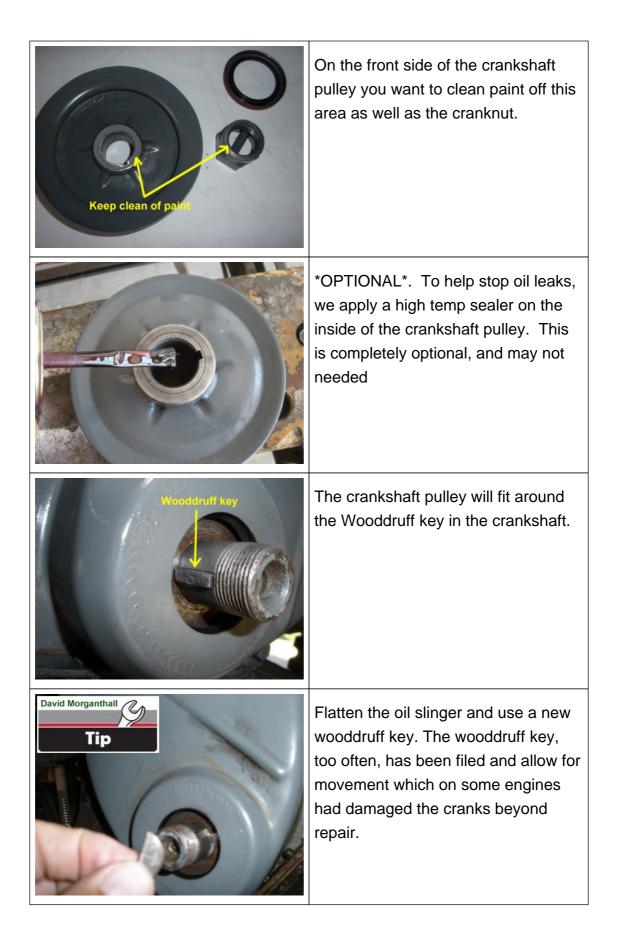
Tuck the oil line under the oil filter bracket, as gravity will cause oil to leak from the canister if it drops below the leave of the oil canister

	Next, remove all the bolts from the bottom pulley guard, and the timing chain cover.
Remove left over Gasket	Use a scraper to fit between the gasket and timing chain cover and start to pry off. When the cover comes off there will be partial gasket remains on the block. This needs to be removed. Continue to scrap off the remainder of the gasket.
	Here a rag is wet with laquer thinner and wipped the area where the gasket will be replaced.
	Here you see the area is cleaned off and ready for replacement. In this case the dark areas are not remaing gasket pieces, these were small pitted areas.









Wooddruff key	Now fit the crankshaft pulley over the woodruff key and press back as far as it will go.
	Add the crankshaft nut, and tighten down. Now let the sealers dry overnight, or even a couple days.
David Morganthall	The crank threads are in many cases damaged and THE REPRO NUTS ARE THE WRONG SIZE. To avoid not getting the pulley pulled in to prevent end play issues, take a flat washer and use it to guarantee the parts and all draw together. Then remove the nut & washer and reinstall the nut, then check end play. Once the pulley is in place any thread issues seem to take a back seat and allow the nut to seat correctly.

Top of timing chain cover	Replace the top oil line back on the cover of the timing chain cover.
	If not already loose, loosen the generator arm, then replace the belt around the pulley, water pump and generator. Align your generator and give about a 1/2 in play in the belt, as mentioned in the TM's, then tighten the generator arm down into place. Start up the jeep and look for leaks. Should be good.