

G503 WWII Jeep Engine Rear Main Seal replacement

This Article describes how to replace a G503 WWII Jeep Engine Rear Main Seal. You shouldn't have to remove the engine but you may have to. Applies to 1942,42,1943,43,1944,44,1945 Jeeps models



Whether you have many miles on your engine or a fresh rebuild, you may be faced with replacing your rear main seal. You will not excessive oil leaking around the front of the bell housing. Don't be confused by thick gear oil from your transmission. Anyway, first remove the oil pan.



Follow the crank shaft towards the transmission bellhousing. You want to remove the main cap. Two bolts holding the drive shaft in position



When the bolts have been removed, slide the main cap out and inspect. There should be to rubber wick type packing on each side. Remove these. Inspect the cap and the main seal that should fall with it

Won't go any further www.1945gpw.com	Here is the trick if you can do it. The issue with the crank in place is it holds the top half of the rear main in place. Try and pull it out with needle nose pliers, or screw in a metal screw and try pulling it out.
Petro Seal (NEW) Victor Kit seal (from rebuild)	Assuming you were able to pull out the top half of the rear main seal, you want to replace it with a new one. There are a couple types. The TM's show the rope type seal that come in gasket sets. Here, we installed a Felpro seal.
bottom haif	Oil your seal down and slide it into position on the top half. If that goes well, you don't have to pull the engine and drop the crank. If it doesn't then you will need to drop the crank out of the pan a bit. (Pete Silfven tip) If the top half is difficult to install, rotating the crank while installing it will help get it in.
	As part of the rear main seal gasket kit, you will have rubber seals to replace in the block. You want to pull the old ones out, and replace with the new ones.

vvv.1945gpv.com	Before installing the main cap back in, we apply a little Right Stuff gasket sealer.
	Here is the prefered gasket sealer used. Called the Right Stuff.
www.1945gpw.com	Put the bottom half of the seal in the cap and slide the main cap back into position and tighten down. You should see a little excess gasket sealer come out if you applied any. If so, wipe it down.
www.1945gpw.com	Prior to placing the oil pan back on, clean off the old gasket and sealer on the block with a putty knife. Using solvent, make sure the hole area for the oil pan is clean and clear of debris.

