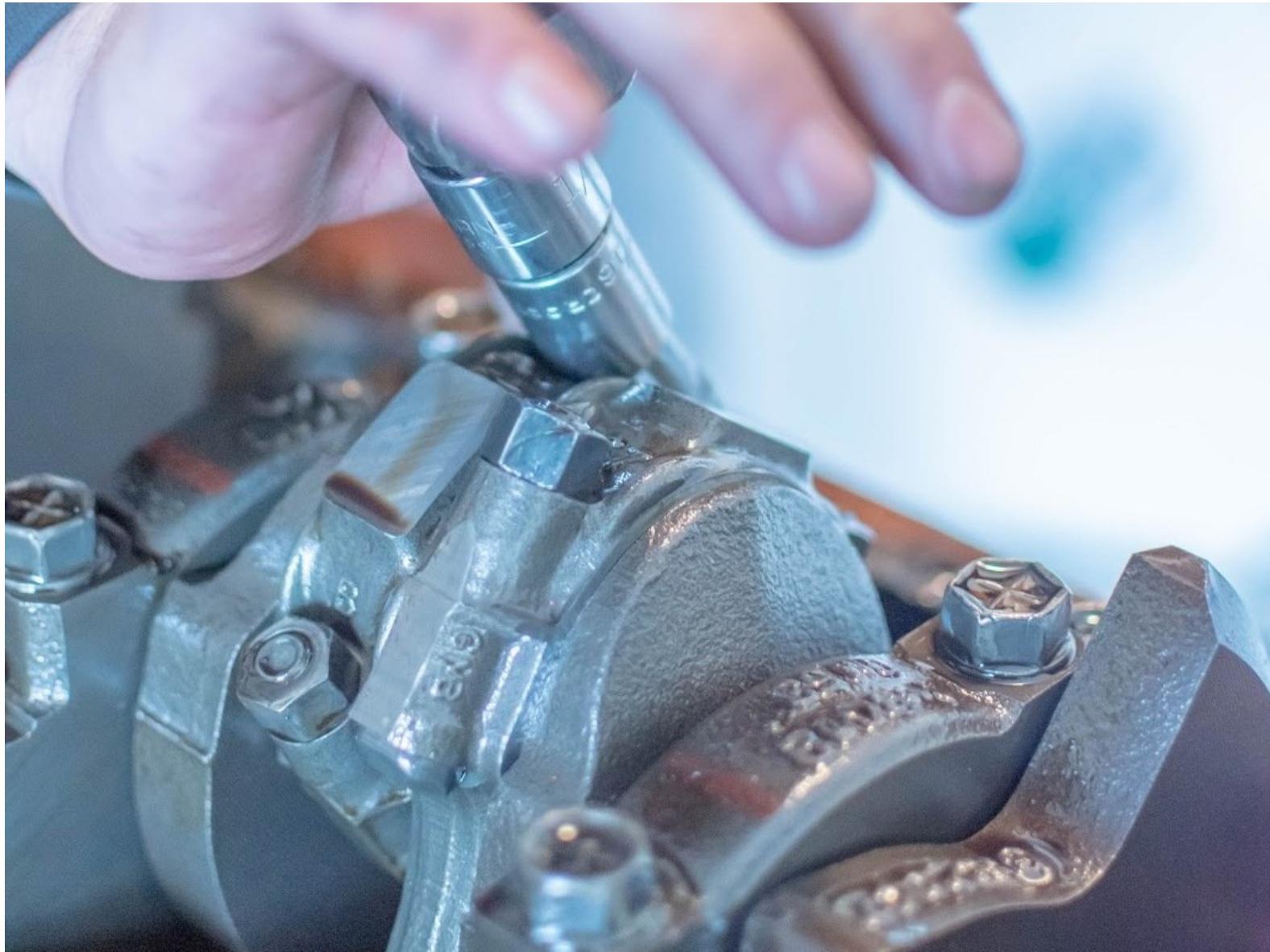




Chevy 305 Engine Connecting Rod Bearing Replacement

This guide is to assist you in replacing the connecting rod bearing on a small block 305 Chevrolet engine.

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INTRODUCTION

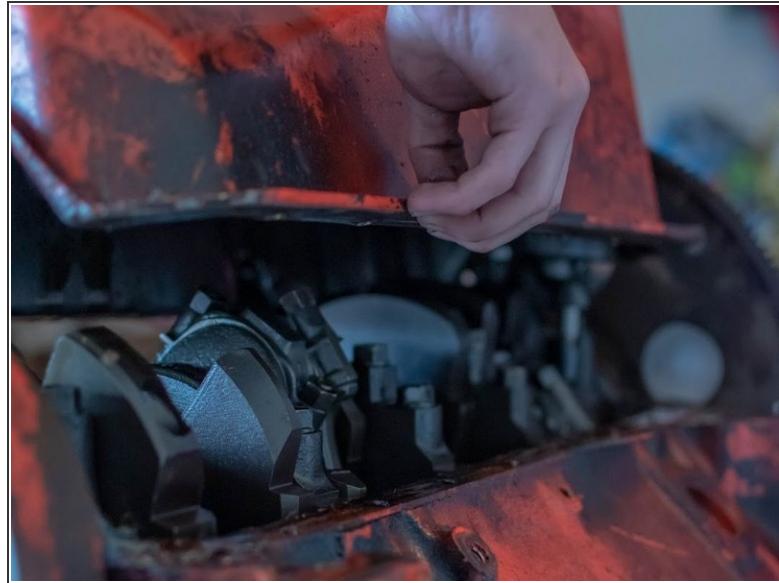
This guide is intended for use on engines already removed from the vehicle. While this kind of work may be possible to complete with the engine still in the car, it will be much easier with the engine removed.

The connecting rod is what connects the piston with the crankshaft on an engine. It converts the “push-pull” motion of the piston to the rotational motion of the crankshaft hence needing some sort of bearing in order for the circular motion to be performed smoothly.

TOOLS:

- [5/16" Socket](#) (1)
- [3/8-Inch Drive Extension Bar](#) (1)
- [1/2" Drive Breaker Bar](#) (1)
- [Graco ADAPTER, 3/8 NPT\(M\) X 1/2 NPT\(F\) 178-460](#) (1)
- [3/8" Drive Ratchet](#) (1)
- [beer](#) (12)
- [Miller Light](#)
- [5/8" Socket](#) (1)

Step 1 — Connecting Rod Bearing



- Remove the 18 bolts holding the oil pan in place using the 3/8 and 1/2 sockets, 6 inch extension and 3/8 ratchet.
 - Fourteen 3/8 bolts around the perimeter and four 1/2 bolts on each corner
- Lift the oil pan up and forward so the oil pump pick up will clear the baffle.



Do not remove the oil pan gasket yet.

Step 2



- Remove the two 5/8 nuts on the connecting rod end cap using the 5/8 socket
- Gently tap the side of the cap with a rubber mallet if needed to break free.

Step 3



- Remove and replace connecting rod bearing
- Gently tap the end cap against the engine block or use a thin flathead screwdriver to remove it from the end cap.
- Gently move the piston and rod down into the cylinder to replace the rod end bearing.

 **DO NOT PUSH THE PISTON OUT OF THE CYLINDER.**

Step 4



- Liberally apply assembly lubricant/oil to the new bearing surfaces and crankshaft journal.

To reassemble your device, follow these instructions in reverse order. Torque the connecting rod cap nuts to 65ft.-lbs. Torque the oil pan bolts to 12ft.-lbs.