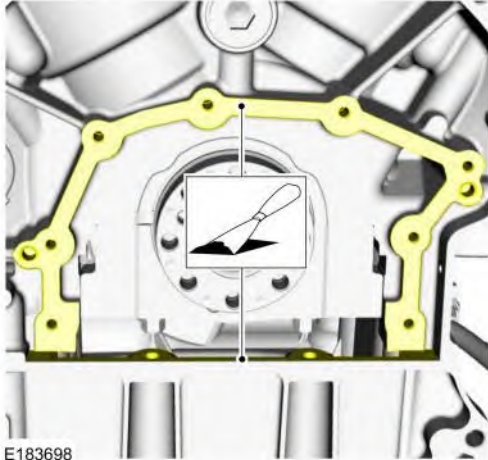


Material

: Metal Brake Parts Cleaner (U.S.) / PM-4-A, PM-4-B (U.S.)

Material

: Motorcraft® Metal Surface Prep / ZC-31-B



REMOVAL AND INSTALLATION > CRANKSHAFT REAR SEAL > INSTALLATION

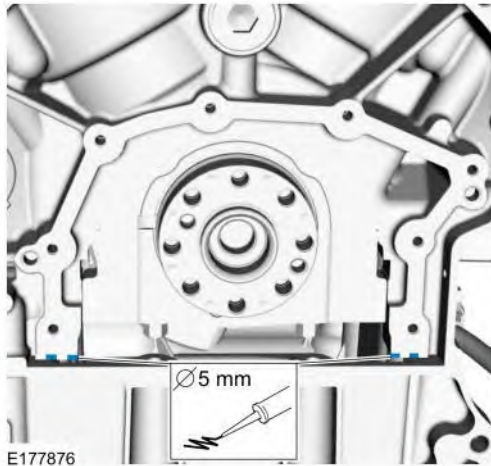
 **NOTE:** The crankshaft rear seal retainer must be installed and the bolts tightened within 10 minutes of sealant application.

 **NOTE:** Failure to use Motorcraft® High Performance Engine RTV Silicone may cause the engine oil to foam excessively and result in serious engine damage.

1. Apply 5 mm (0.196 in) bead of silicone sealant.

Material

: Motorcraft® High Performance Engine RTV Silicone / TA-357 (WSE-M4G323-A6)



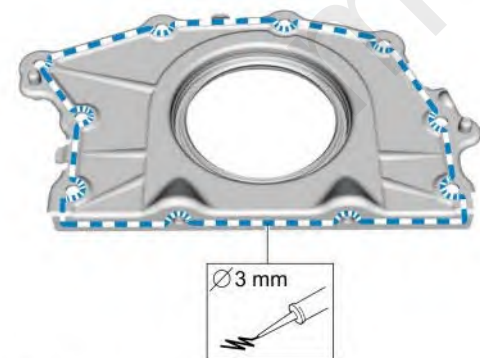
 **NOTE:** Failure to use Motorcraft® High Performance Engine RTV Silicone may cause the engine oil to foam excessively and result in serious engine damage.

 **NOTE:** The crankshaft rear seal retainer must be installed and the bolts tightened within 10 minutes of sealant application.

2.
Apply 3 mm (0.11 in) bead of silicone sealant.

Material

: Motorcraft® High Performance Engine RTV Silicone / TA-357 (WSE-M4G323-A6)



- 3.

Lubricate the crankshaft rear seal with clean engine oil.

Material

: Motorcraft® SAE 5W-20 Premium Synthetic Blend Motor Oil (U.S.) / XO-5W20-QSP (U.S.)

(WSS-M2C945-A)



4.

1.

Install the crankshaft rear seal retainer at an angle above the oil pan flange to avoid scraping off the sealer.

2.

Tilt the seal retainer up and onto the rear of the cylinder block.



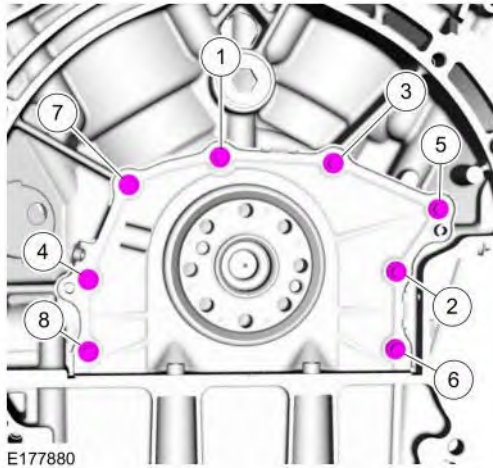
5.

Install the bolts and tighten in sequence shown in illustration.

Torque:

Stage 1: 89 lb.in (10 Nm)

Stage 2: 45°



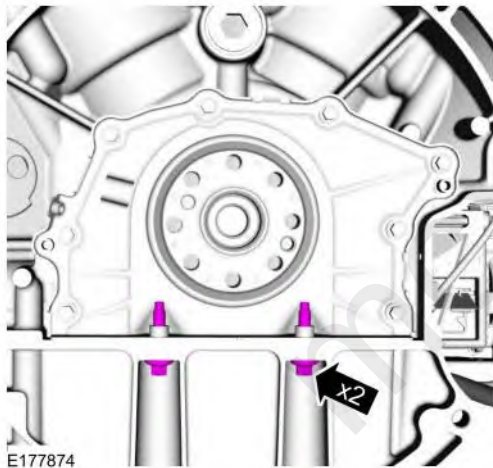
6.

Install oil pan-to-crankshaft rear seal bolts.

Torque:

Stage 1: 89 lb.in (10 Nm)

Stage 2: 45°

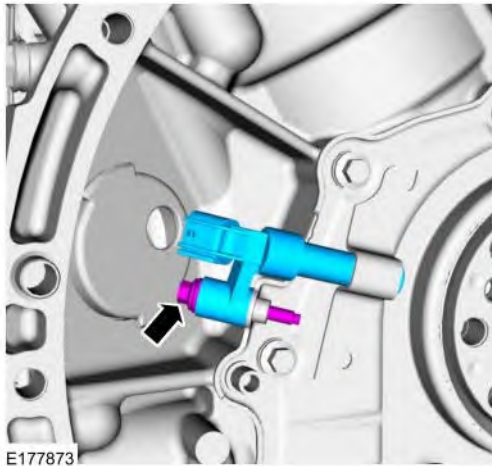


7.

Install the CKP sensor and the bolt.

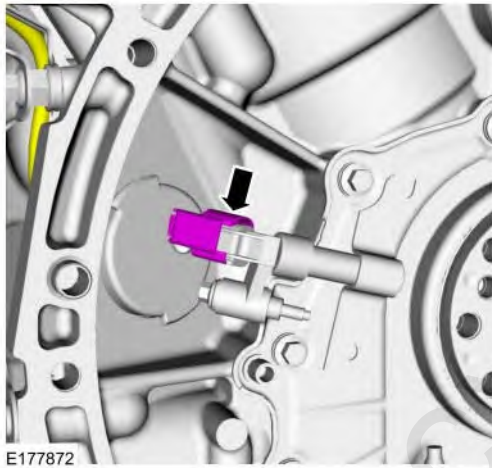
Torque

: 89 lb.in (10 Nm)



8.

Connect the CKP sensor electrical connector.



9.

Install the engine-to-transmission spacer plate and the crankshaft sensor ring.

