

Material

: Metal Brake Parts Cleaner / PM-4-A, PM-4-B

Material

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



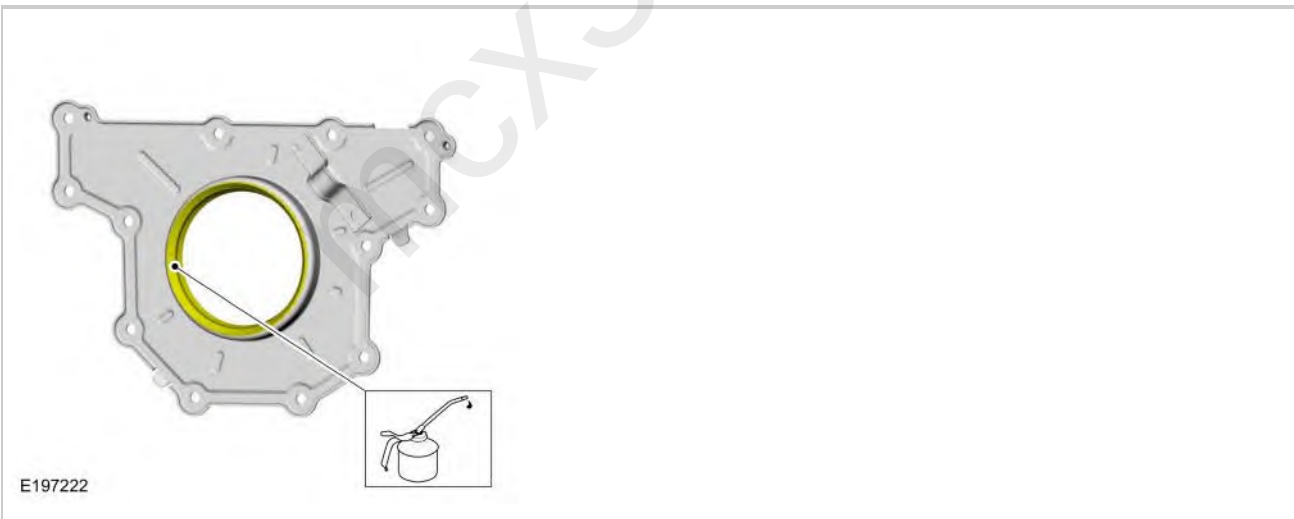
REMOVAL AND INSTALLATION > CRANKSHAFT REAR SEAL WITH RETAINER PLATE > INSTALLATION

1.

Lubricate the crankshaft rear seal lips with clean engine oil.

Material

: Motorcraft ® SAE 5W-30 Premium Synthetic Blend Motor Oil / XO-5W30-QSP
(WSS-M2C946-A)



2.

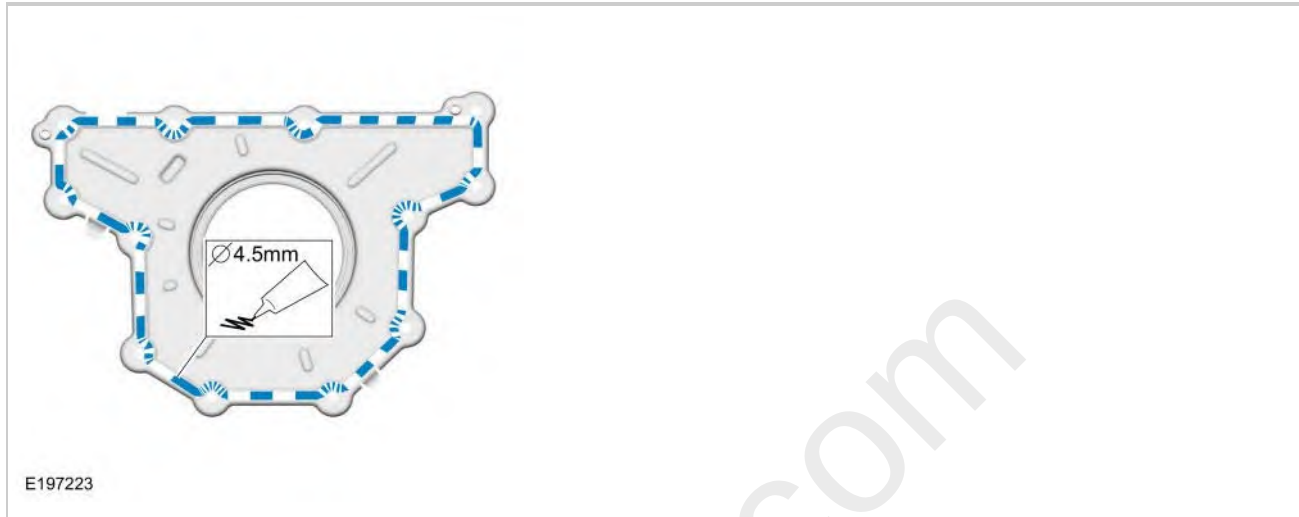
 **NOTE:** The crankshaft rear seal and retainer plate must be installed within 10 minutes of applying the sealer and the bolts must be installed and tightened to 2-5 Nm (18-44 lb-in) within 15 of applying the sealer. Final tightening of the bolts must be completed within 60 minutes of applying the sealer. Failure to follow this procedure

can cause future oil leakage.

Apply a 4.5 mm (0.18 in) bead of Motorcraft® High Performance Engine RTV Silicone to the crankshaft rear seal and retainer plate.

Material

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



3.

Position the special tool onto the end of the crankshaft. Use Special Service Tool: 303-1250 Seal Installer, Rear Main.

Slide the new crankshaft rear seal and retainer plate onto the tool and into the installed position.



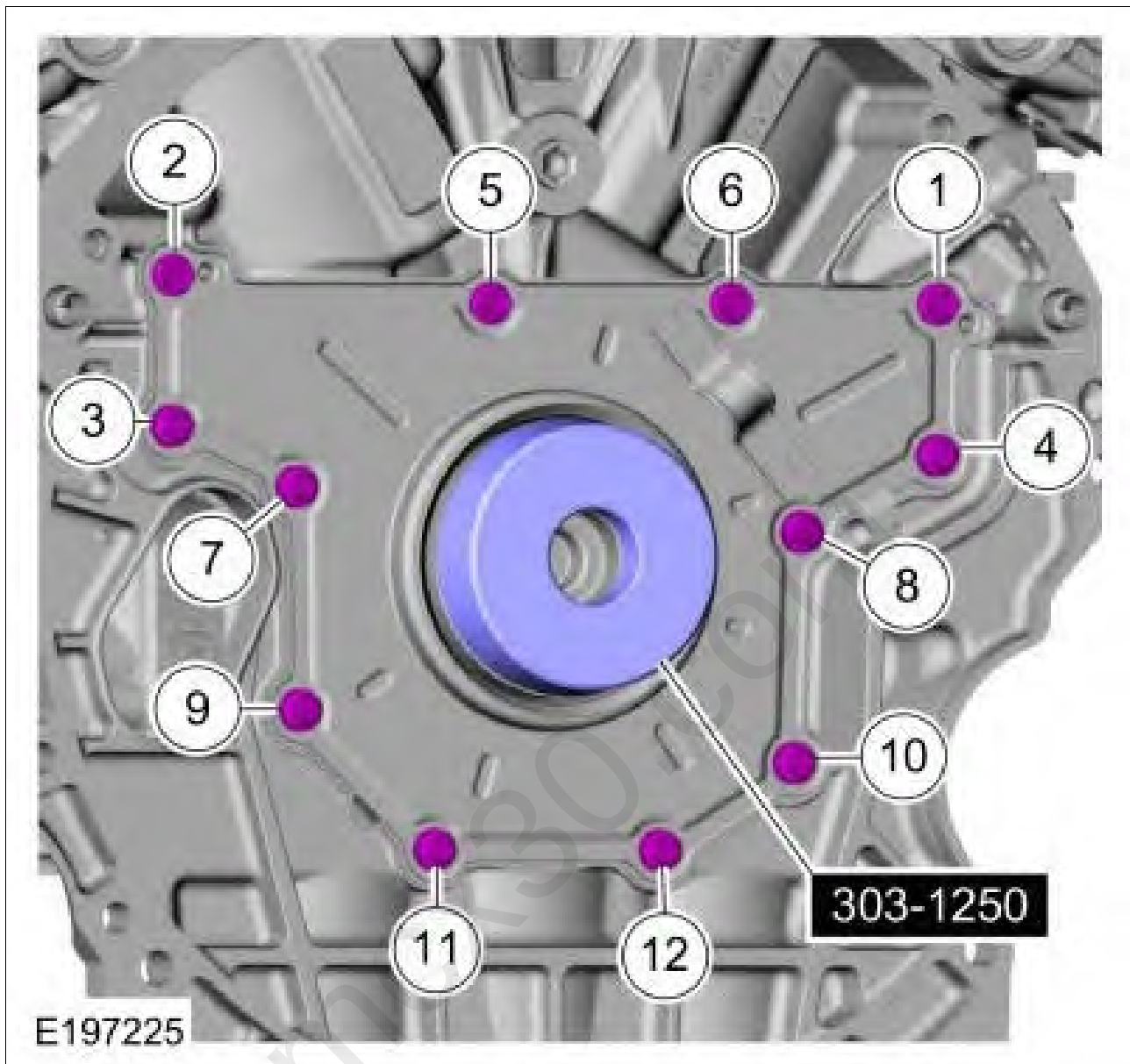
4.

Install the crankshaft rear seal retainer plate bolts. Remove Special Service Tool: 303-1250 Seal Installer, Rear Main.

Torque

: 89 lb.in (10 Nm)

Fig 1: Crankshaft Rear Seal Retainer Plate Bolts Tightening Sequence



Courtesy of FORD MOTOR CO.

5.

1.

Install the CKP sensor and the bolt.

Torque

: 89 lb.in (10 Nm)

2.

Connect the CKP sensor electrical connector.