

Crankshaft Rear Seal

Special Tool(s) / General Equipment



303-1250
Seal Installer, Rear Main
TKIT-2006UFFLM

E274084

Materials

Name	Specification
Motorcraft® High Performance Engine RTV Silicone TA-357	WSE-M4G323-A6

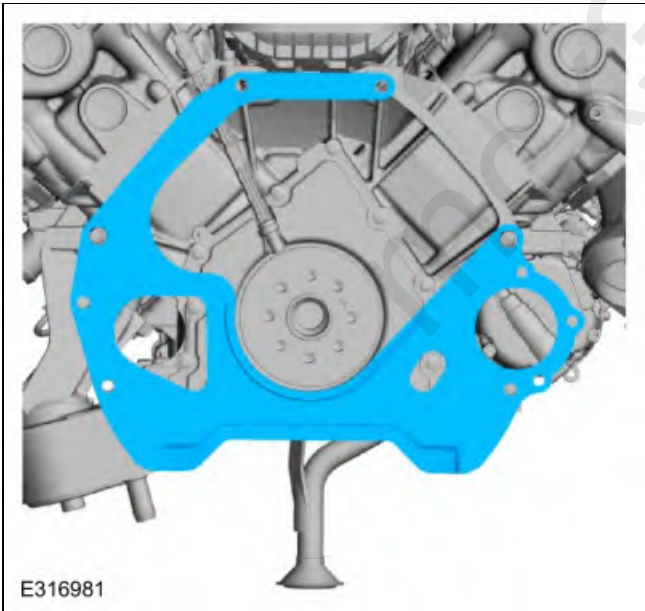
Removal

NOTICE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces, that enters the oil passages, coolant passages or the oil pan, can cause engine failure.

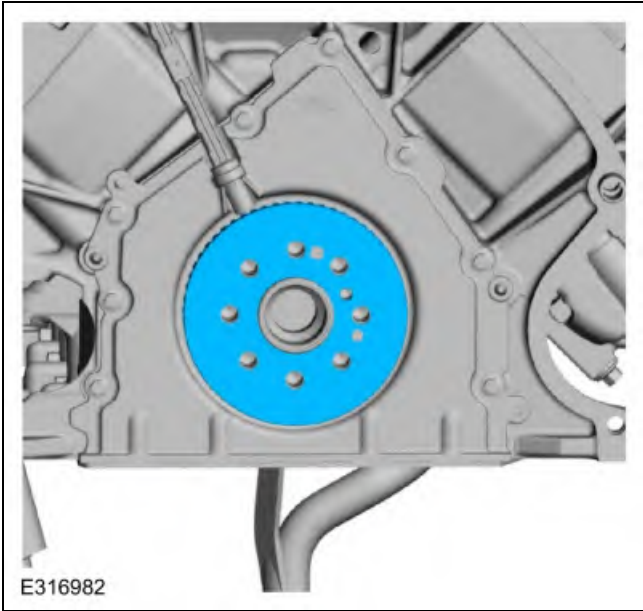
1. Remove the flexplate or flywheel.
Refer to: Flexplate (303-01A Engine - 6.2L V8, Removal and Installation).
Refer to: Flywheel (303-01A Engine - 6.2L V8, Removal and Installation).

2. **NOTE:** Automatic transmission shown, manual transmission similar.

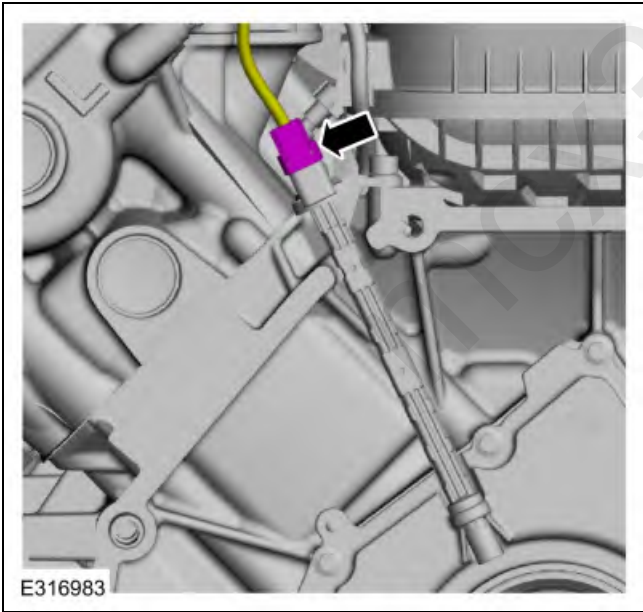
Remove the engine-to-transmission spacer plate.



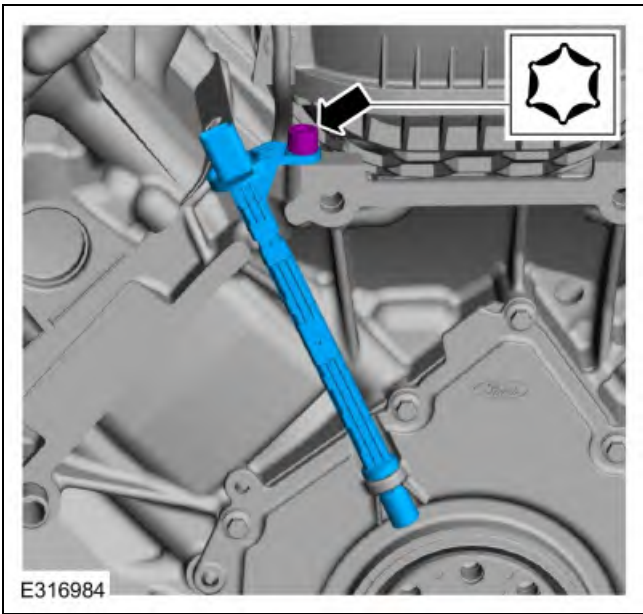
3. Remove the crankshaft ignition pulse ring.



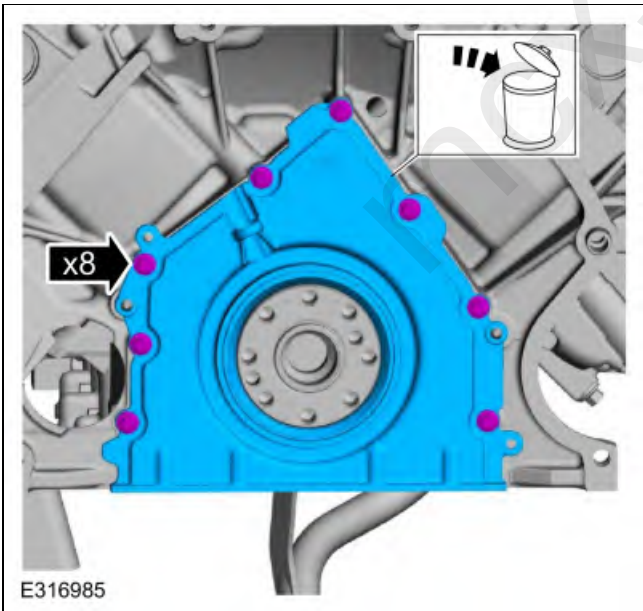
4. Disconnect the CKP sensor wiring harness electrical connector.



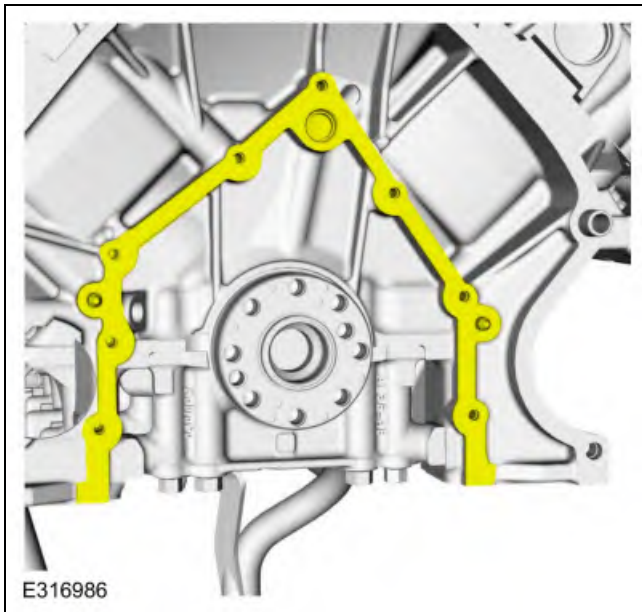
5. Remove the bolt and the CKP sensor.



- 6.
- Remove the bolts and the crankshaft rear seal retainer plate.
 - Discard the crankshaft rear seal retainer plate.



7. Clean and prepare the RTV sealing surface.
- Refer to: RTV Sealing Surface Cleaning and Preparation (303-00 Engine System - General Information, General Procedures).

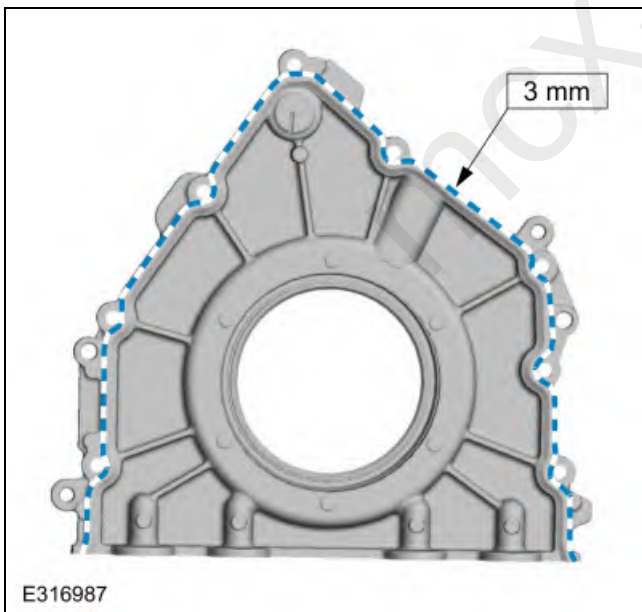


Installation

- NOTE:** If the rear crankshaft seal retaining plate is not secured within 4 minutes, the sealant must be removed and the sealing area cleaned with silicone gasket remover and metal surface prep. Follow the directions on the packaging. Allow to dry until there is no sign of wetness, or 4 minutes, whichever is longer. Failure to follow this procedure may cause future oil leaks.

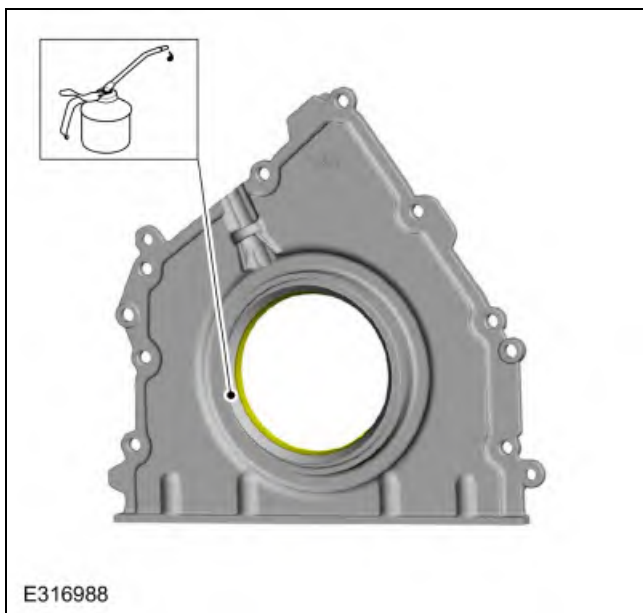
Apply a 3 mm (0.12 in) bead of silicone gasket and sealant around the crankshaft rear seal retainer plate sealing surface.

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

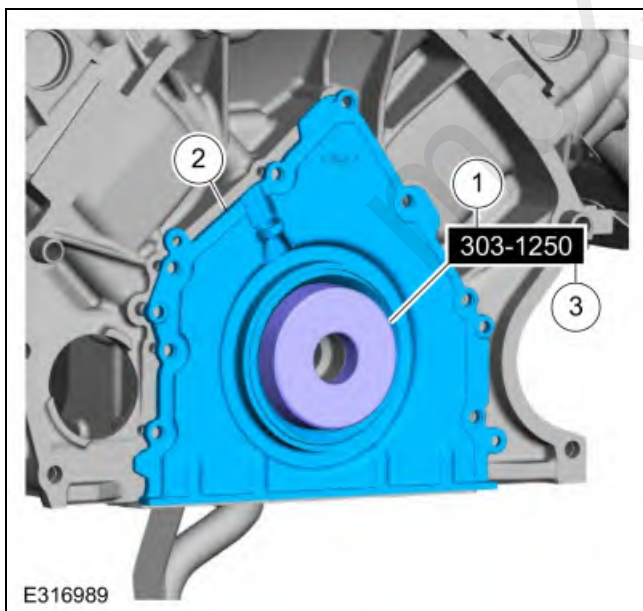


- NOTE:** Lubricate the crankshaft rear seal with clean engine oil prior to installation.

Lubricate the crankshaft rear seal with clean engine oil prior to installation.



3.
 1. Install the special tool.
Install Special Service Tool: 303-1250 Seal Installer, Rear Main.
 2. **NOTE:** *Inspect and ensure that the crankshaft rear seal lip is not rolled before proceeding to step 4.*
Install the crankshaft rear seal.
 3. Remove the special tool.
Remove Special Service Tool: 303-1250 Seal Installer, Rear Main.



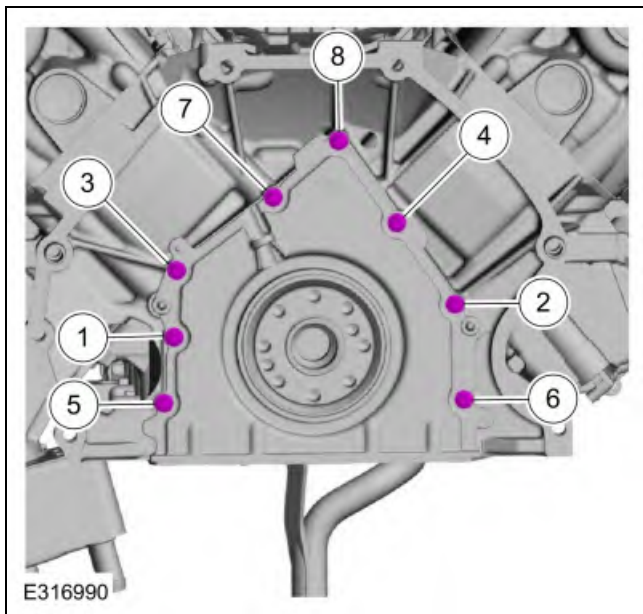
4. **NOTE:** *The crankshaft rear seal retainer must be installed and the bolts tightened within 10 minutes of sealant application.*

Install the crankshaft rear seal bolts and tighten in sequence shown in 2 stages.

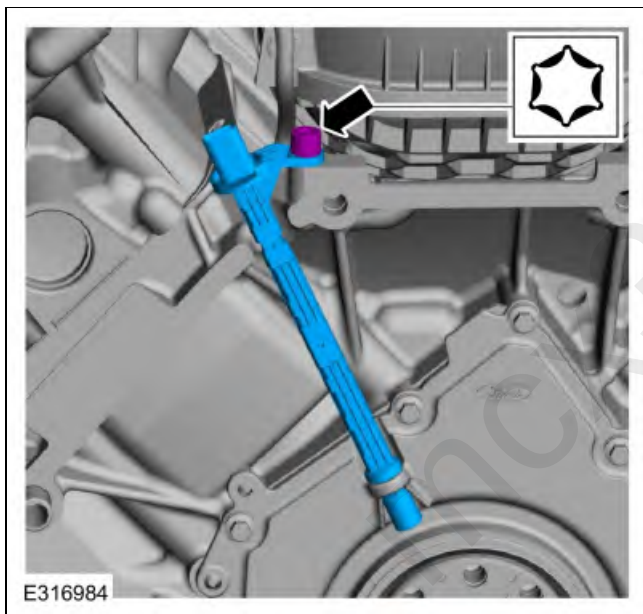
Torque:

Stage 1: 89 lb.in (10 Nm)

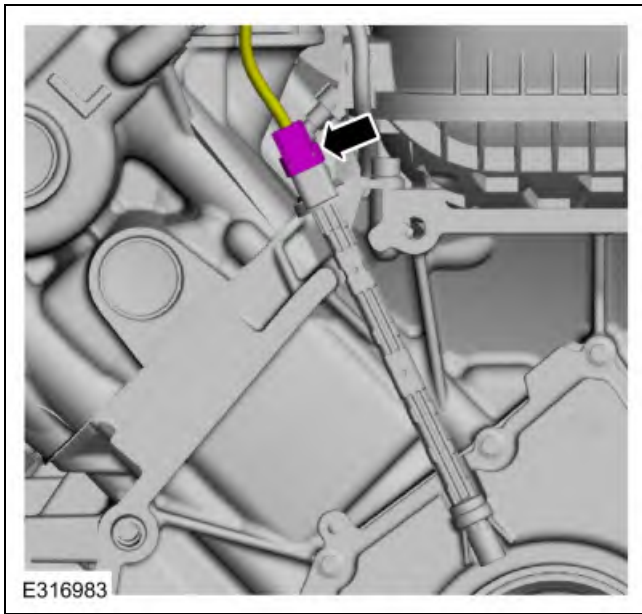
Stage 2: 30°



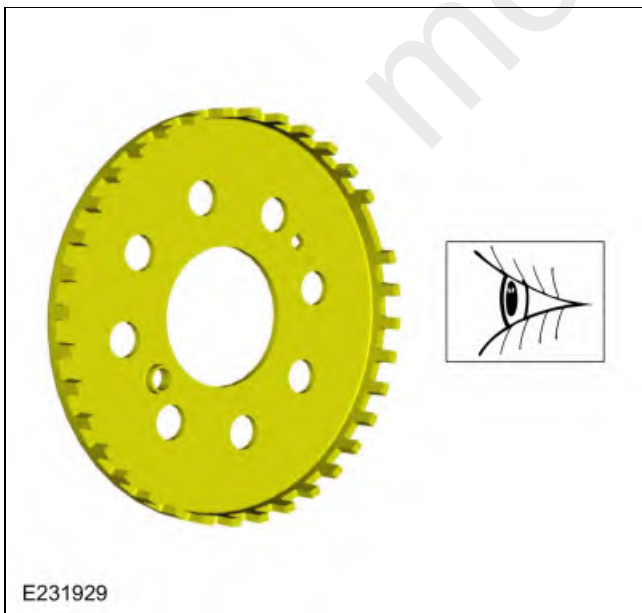
5. Install the CKP sensor and the bolt.
Torque: 89 lb.in (10 Nm)



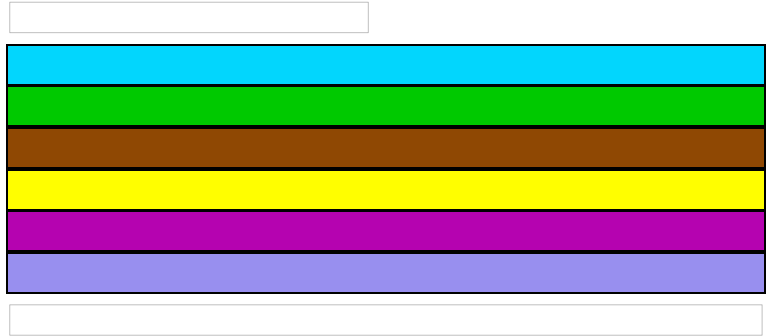
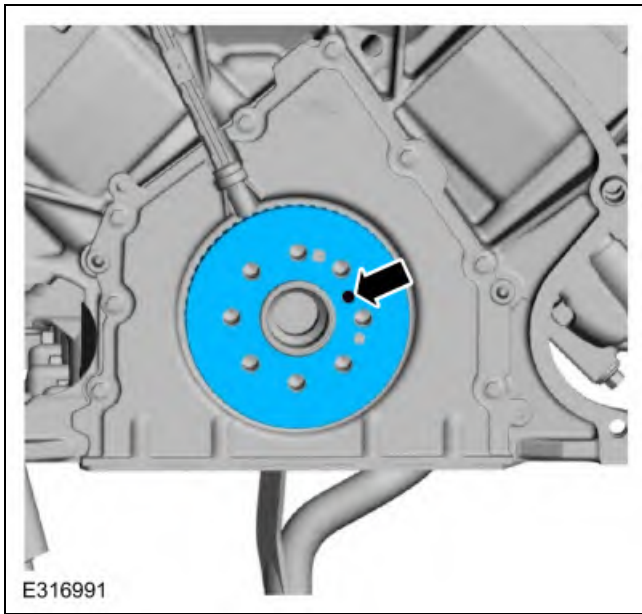
6. Connect the CKP sensor wiring harness electrical connector.



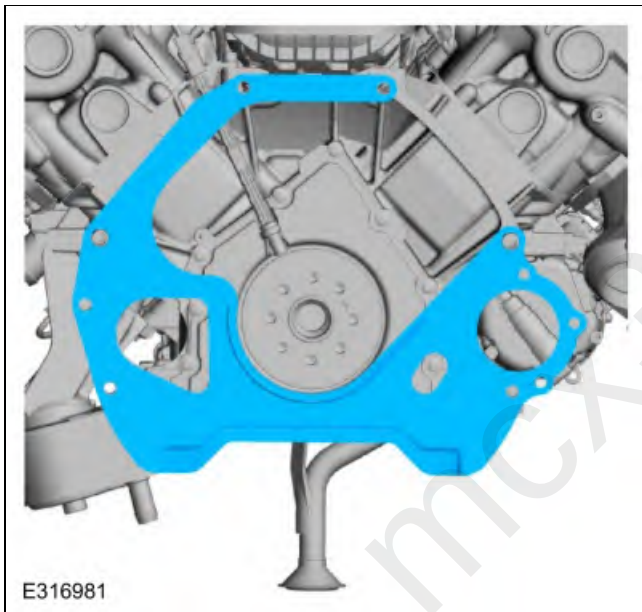
7. Inspect the ignition pulse ring for damage. If the ignition pulse ring has been dropped or has any visual damage, it must be replaced.



8. With the inset hole on the crankshaft ignition pulse ring aligned with the inset hole on the crankshaft flange, install the crankshaft ignition pulse ring.



9. Install the engine-to-transmission spacer plate.



10. Install the flexplate or flywheel.
Refer to: Flexplate (303-01A Engine - 6.2L V8, Removal and Installation).
Refer to: Flywheel (303-01A Engine - 6.2L V8, Removal and Installation).

