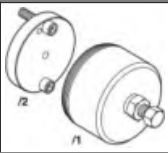
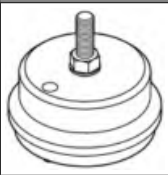


Crankshaft Rear Seal

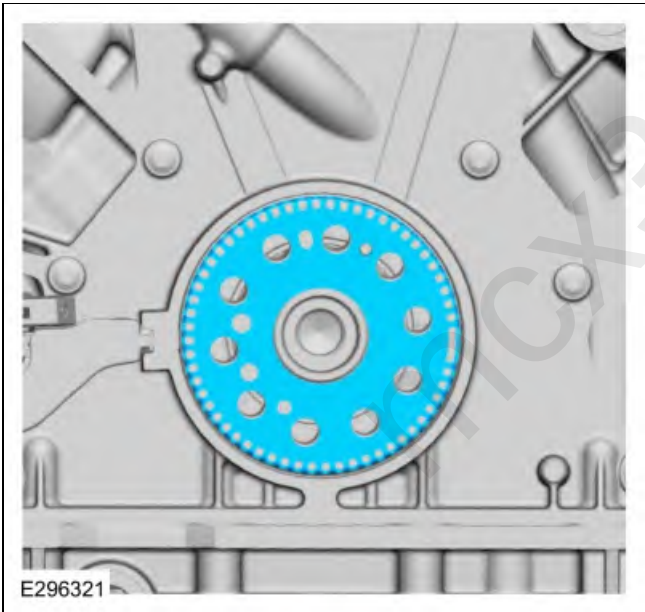
Special Tool(s) / General Equipment

	303-1513 Remover, Rear Crank Seal
	303-1514 Installer, Rear Crank Seal TKIT-2009C-F TKIT-2009C-ROW

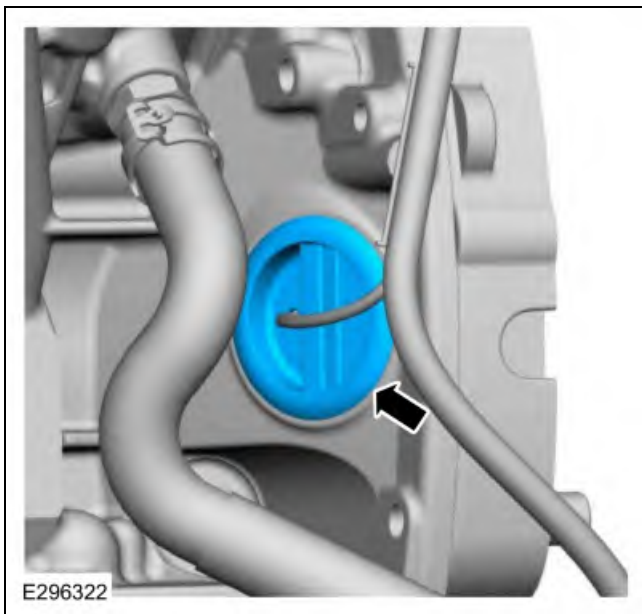
Removal

1. Remove the flexplate.
Refer to: Flexplate (303-01B Engine - 6.7L Power Stroke Diesel, Removal and Installation).
2. **NOTICE: Do not use magnetic screwdrivers or other magnetic tools around the CKP sensor and the crankshaft sensor pulse ring or damage to the components may occur.**

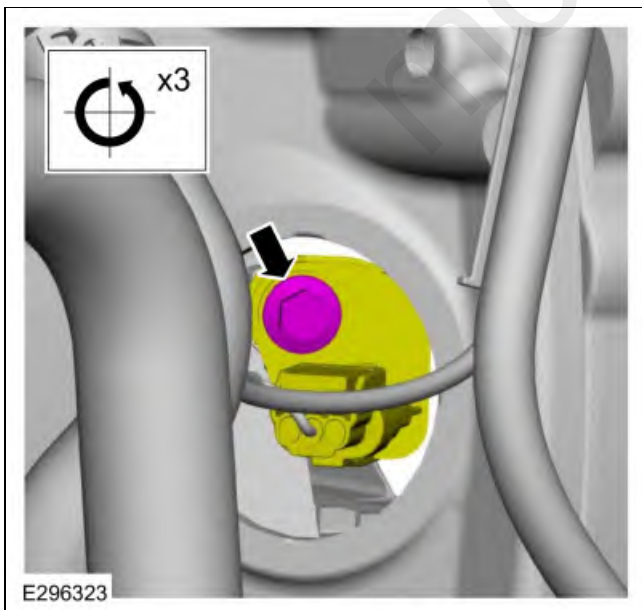
Remove the crankshaft sensor pulse ring.



3. Remove the cylinder block opening cover.

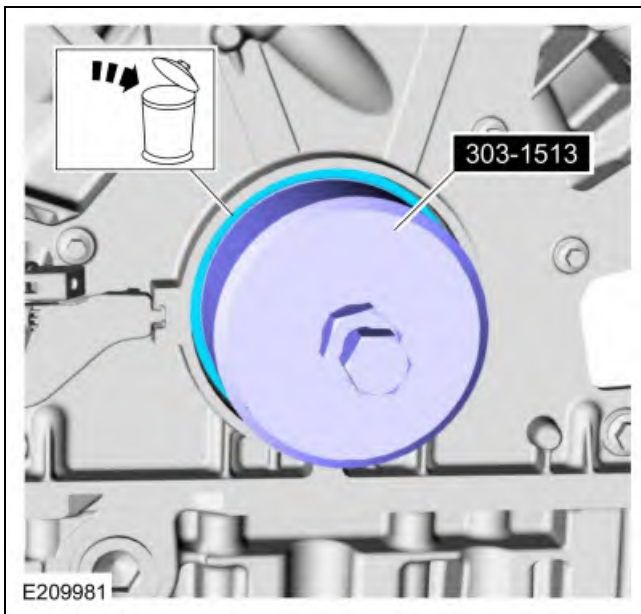


- 4.
- Loosen the CKP sensor bolt 3 full turns.
 - Position the CKP sensor back against the bolt.
 - Verify that the CKP sensor is not protruding into the rear crankshaft seal area.



5. **NOTICE: Do not scratch or damage the crankshaft during removal or installation of the crankshaft rear seal.**

Using the special tool, remove and discard the crankshaft rear seal.
Use Special Service Tool: 303-1513 Remover, Rear Crank Seal.



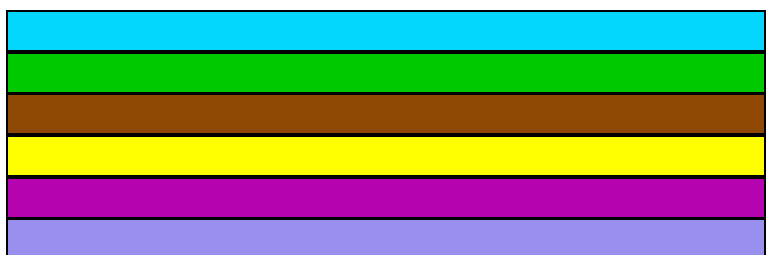
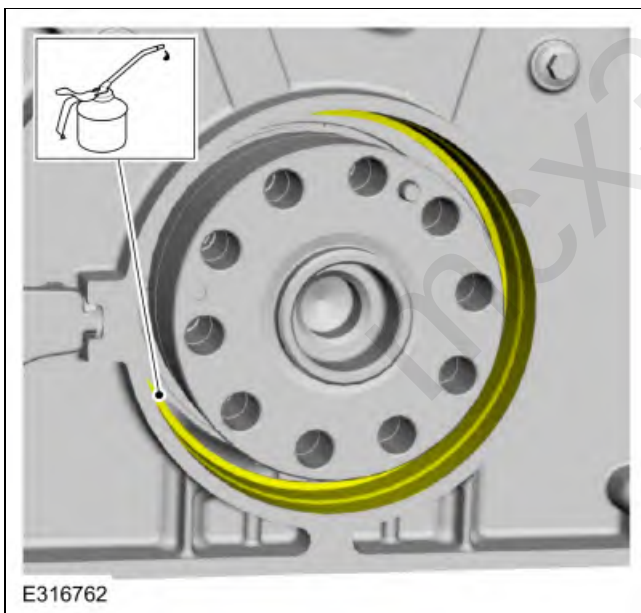
6. Clean and inspect the crankshaft sealing surfaces.

Installation

- NOTICE: Do not use grease or petroleum jelly instead of engine oil. Failure to follow this may result in crankshaft rear seal leakage.**

Apply clean engine oil to the inner diameter of the crankshaft seal bore in the engine rear cover.

Refer to: Specifications (303-01B Engine - 6.7L Power Stroke Diesel, Specifications).

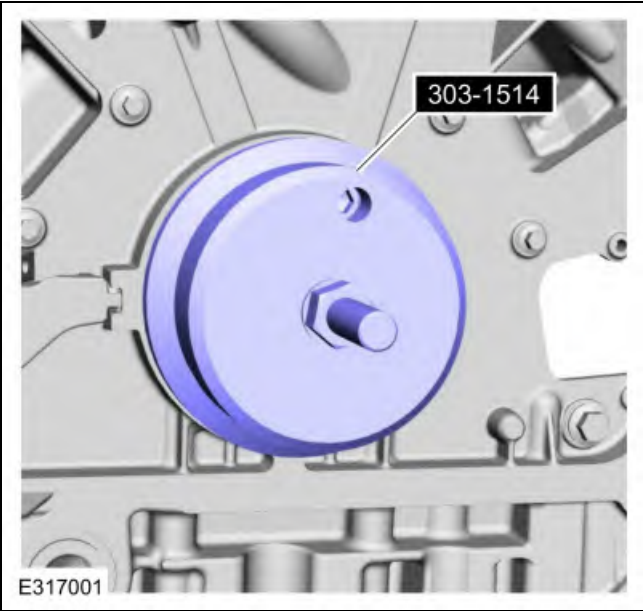


- NOTICE: Failure to install the crankshaft rear seal with the part numbers facing out may result in engine damage.**

NOTE: Do not discard the installation sleeve provided with the crankshaft rear seal. It is used for installation of the crankshaft rear seal.

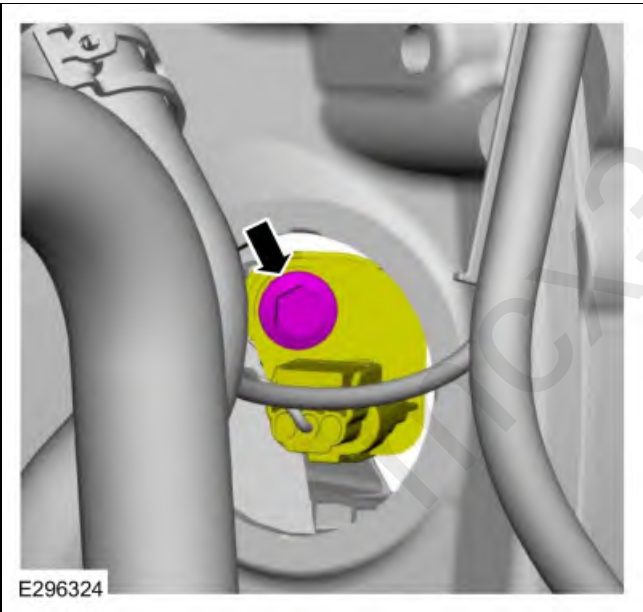
NOTE: Check for correct orientation of the installation sleeve prior to sliding the seal on the crankshaft.

- Position the installation sleeve onto the crankshaft, slide the new crankshaft rear seal over the installation sleeve onto the crankshaft. Remove and discard the installation sleeve.
- Using the special tool, install the crankshaft rear seal.
Use Special Service Tool: 303-1514 Installer, Rear Crank Seal.

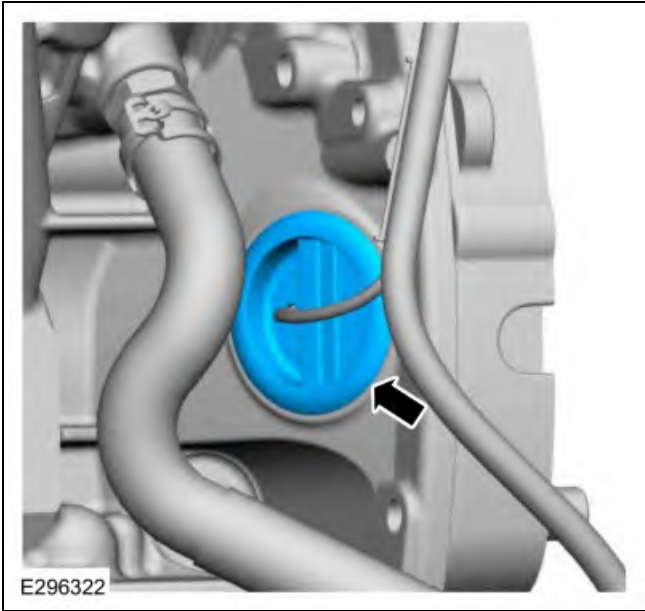


3. **NOTICE:** Do not use magnetic screwdrivers or other magnetic tools around the CKP sensor and the crankshaft sensor pulse ring or damage to the components may occur.

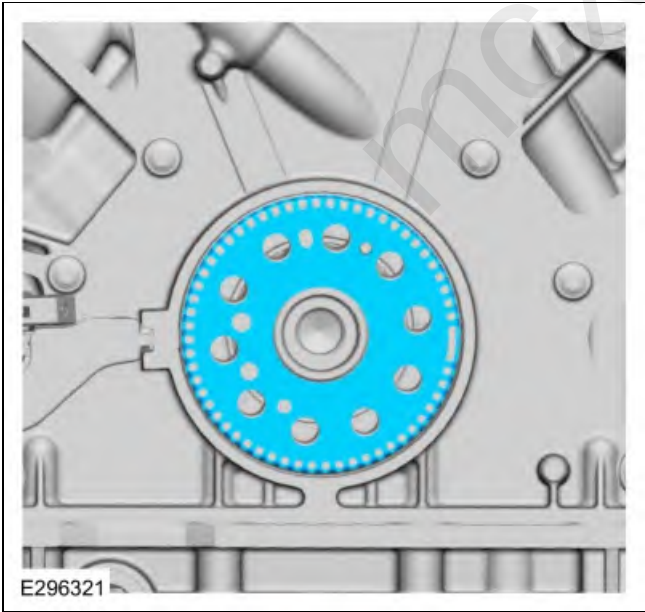
Push the CKP sensor back in place and tighten the bolt.
Torque: 89 lb.in (10 Nm)



4. Install the cylinder block opening cover.



5. Install the crankshaft sensor pulse ring.



6. Install the flexplate.
Refer to: Flexplate (303-01B Engine - 6.7L Power Stroke Diesel, Removal and Installation).