

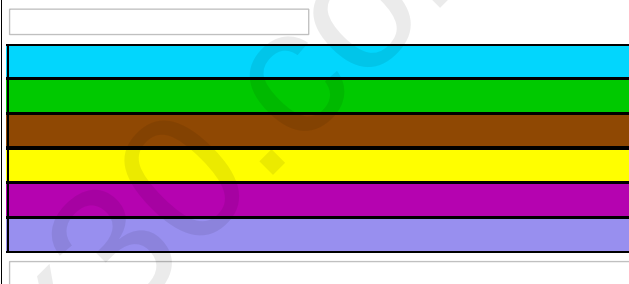
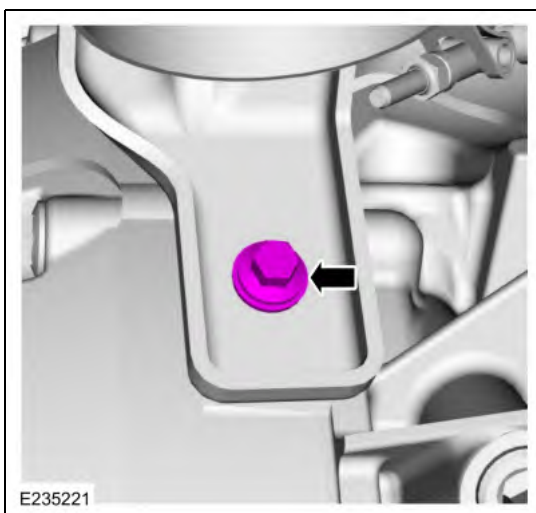
Engine Rear Cover

Removal

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

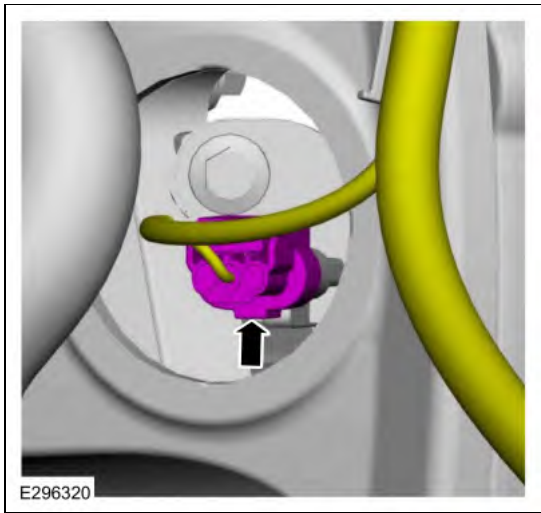
1. Remove the following items:
 1. Remove the upper oil level indicator and tube.
Refer to: Oil Level Indicator and Tube (303-01B Engine - 6.7L Power Stroke Diesel, Removal and Installation).
 2. **NOTICE: The upper oil pan must be removed prior to removing the engine rear cover or engine damage may occur.**

Remove the upper oil pan.
Refer to: Upper Oil Pan (303-01B Engine - 6.7L Power Stroke Diesel, Removal and Installation).
 3. Remove the crankshaft rear seal.
Refer to: Crankshaft Rear Seal (303-01B Engine - 6.7L Power Stroke Diesel, Removal and Installation).
2. Remove the TC downpipe bracket bolt.



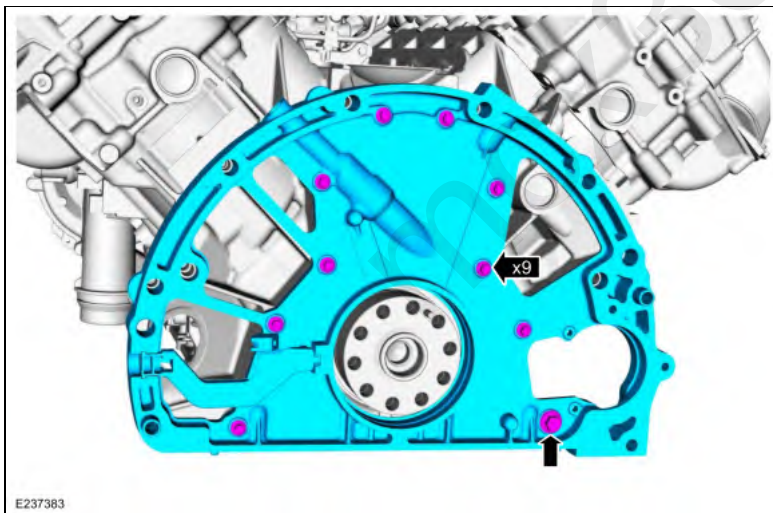
3. **NOTICE: Do not use magnetic screwdrivers or other magnetic tools around the CKP sensor and the crankshaft sensor pulse ring or damage to the components may occur.**

Disconnect the CKP sensor electrical connector.

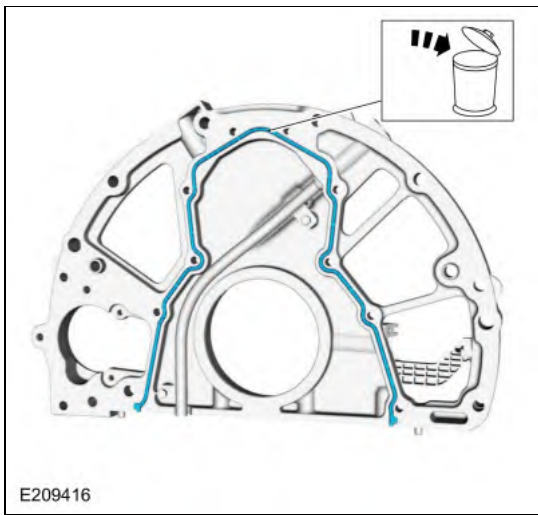


4. **NOTICE:** To prevent engine damage, replace damaged or missing dowel pins before installing the engine rear cover.

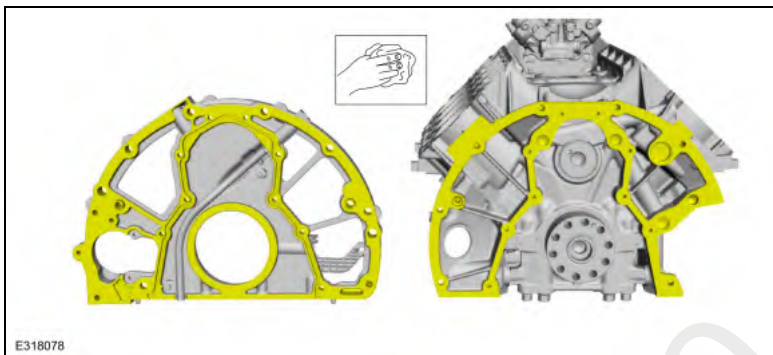
Remove the bolts and the engine rear cover.



5. Remove and discard the engine rear cover gasket.

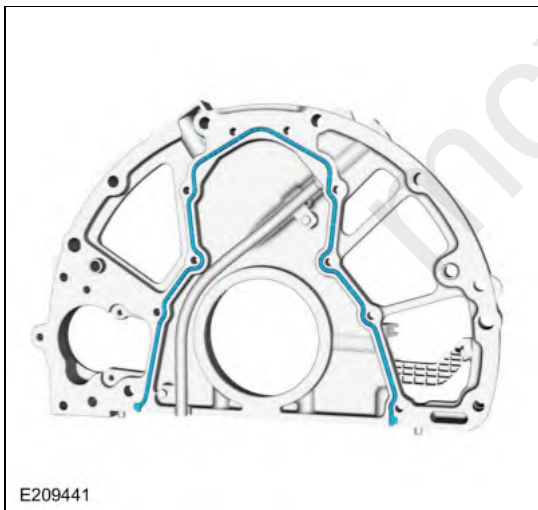


6. Make sure the mating surfaces are clean and free of foreign material.



Installation

1. Install a new engine rear cover gasket.



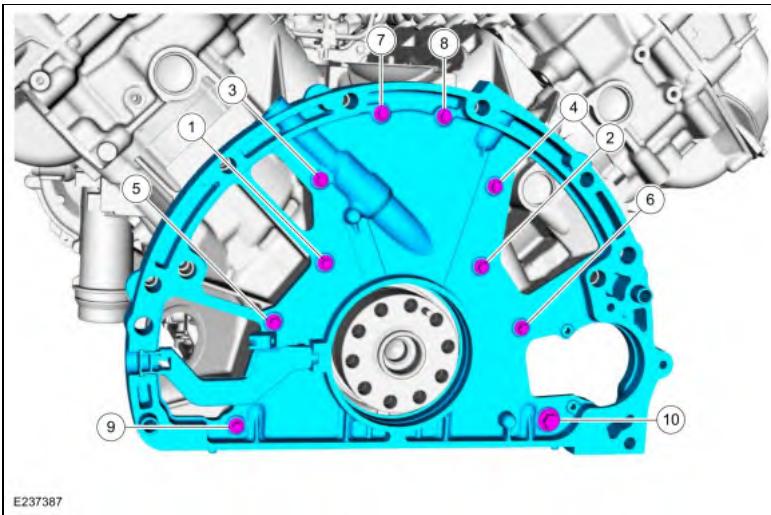
2. **NOTICE:** To prevent engine damage, replace damaged or missing dowel pins before installing the engine rear cover.

Install the engine rear cover and the bolts.

Torque:

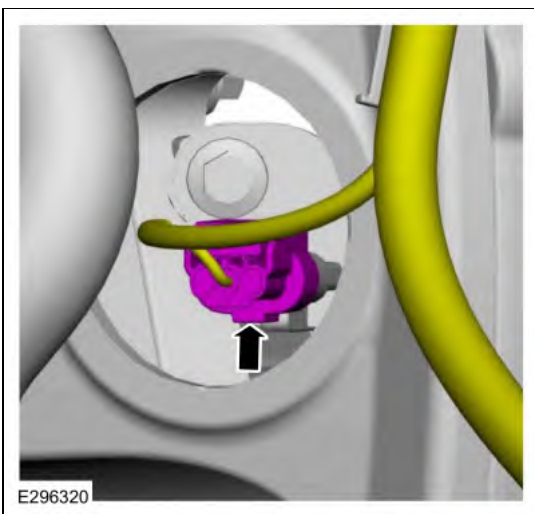
Tighten bolts 1 through 9 to : 89 lb.in (10 Nm)

Tighten bolt 10 to : 35 lb.ft (48 Nm)

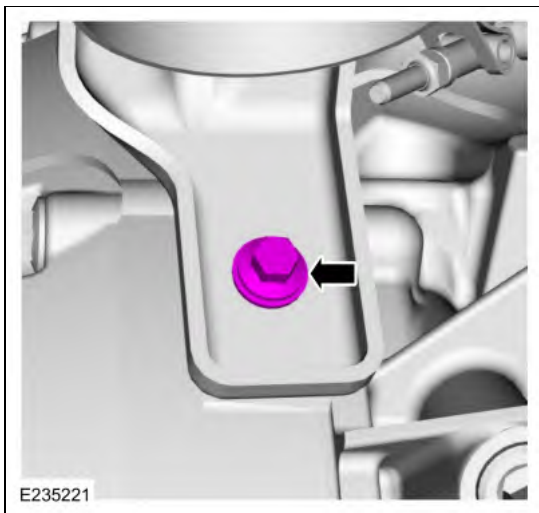


3. **NOTICE:** Do not use magnetic screwdrivers or other magnetic tools around the CKP sensor and the crankshaft sensor pulse ring or damage to the components may occur.

Connect the CKP sensor electrical connector.



4. Install the TC downpipe bracket bolt.
Torque: 18 lb.ft (25 Nm)



5. Install the following items:

1. Install the crankshaft rear seal.
Refer to: Crankshaft Rear Seal (303-01B Engine - 6.7L Power Stroke Diesel, Removal and Installation).
2. Install the upper oil pan.
Refer to: Upper Oil Pan (303-01B Engine - 6.7L Power Stroke Diesel, Removal and Installation).
3. Install the upper oil level indicator and tube.
Refer to: Oil Level Indicator and Tube (303-01B Engine - 6.7L Power Stroke Diesel, Removal and Installation).