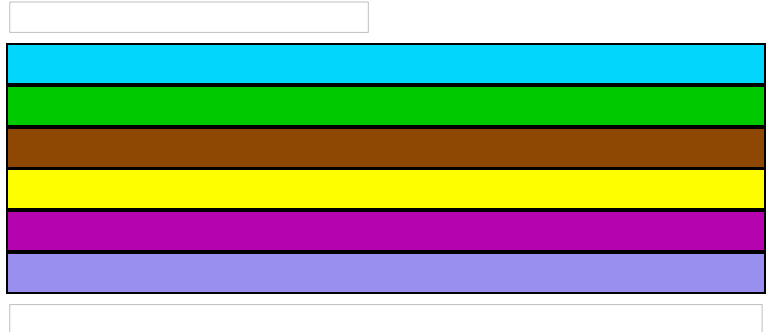
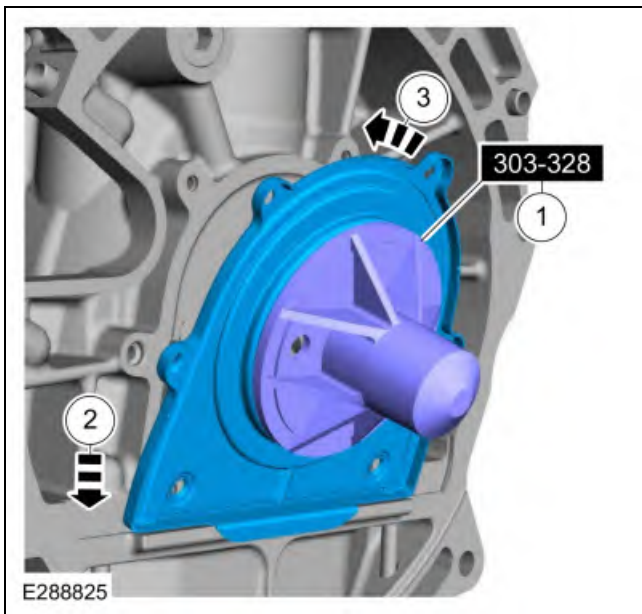
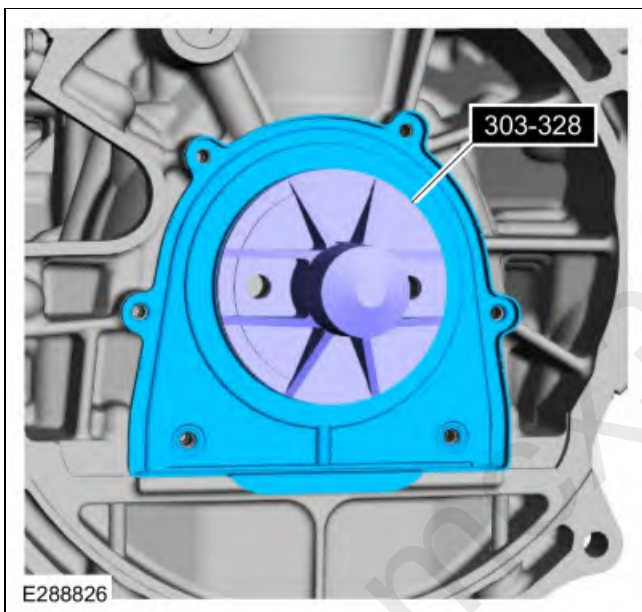
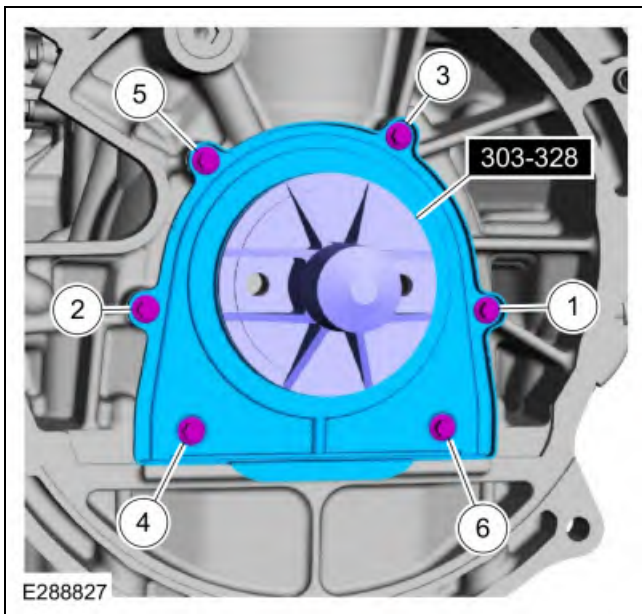




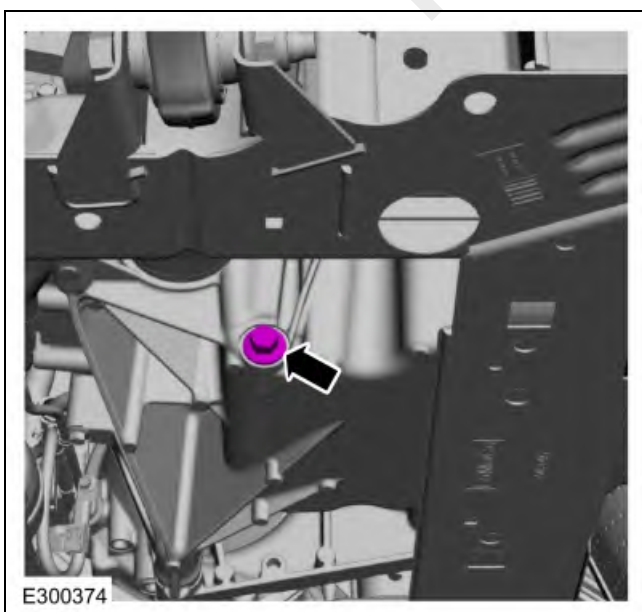
3. Using the special tool, seat the crankshaft rear seal.
Use Special Service Tool: 303-328 (T88P-6701-B1) Replacer, Rear Seal.



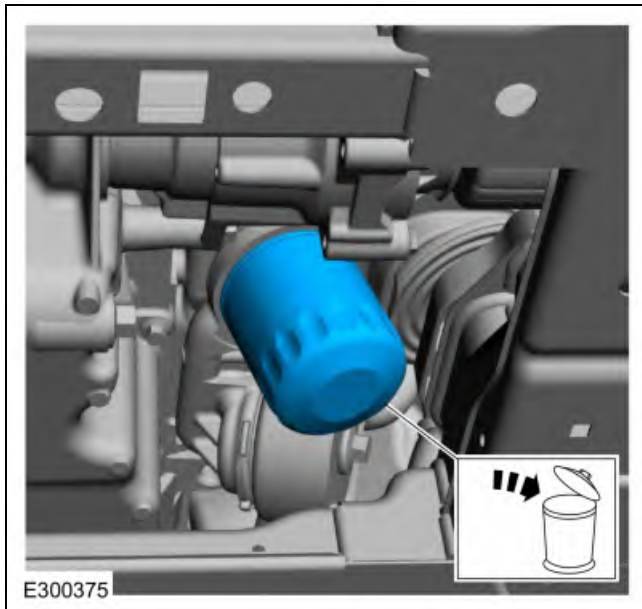
4. Install the bolts and tighten in sequence shown.
Remove Special Service Tool: 303-328 (T88P-6701-B1) Replacer, Rear Seal.
Torque: 97 lb.in (11 Nm)



5.
 - Remove the oil pan drain bolt and drain the engine oil.
Use the General Equipment: Oil Drain Equipment
 - Install the oil pan drain bolt.
Torque: 20 lb.ft (27 Nm)



6. Remove and discard the engine oil filter.

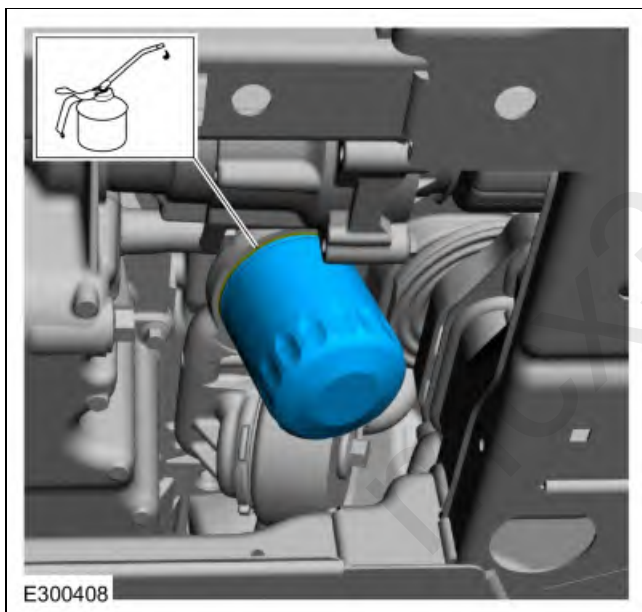


7. Lubricate the oil filter seal with clean engine oil and install.

Torque:

Stage 1: 71 lb.in (8 Nm)

Stage 2: 180°

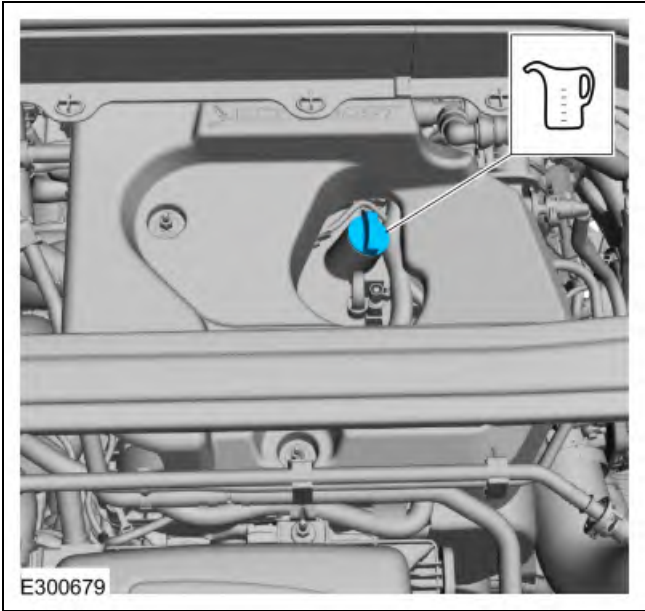


8. Install the flexplate.

Refer to: Flexplate (303-01A Engine - 2.3L EcoBoost (201kW/273PS), Removal and Installation).

9. Fill the engine with clean engine oil.

Refer to: Specifications (303-01A Engine - 2.3L EcoBoost (201kW/273PS), Specifications).



Cylinder Head

Special Tool(s) / General Equipment

Oil Drain Equipment
Hose Clamp Remover/Installer

Materials

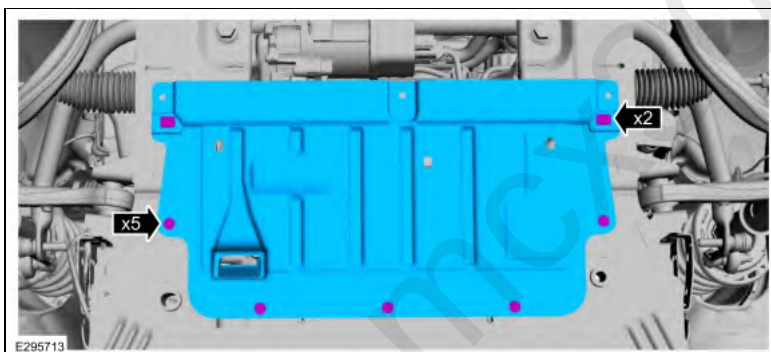
Name	Specification
Motorcraft® High Performance Engine RTV Silicone TA-357	WSE-M4G323-A6

Removal

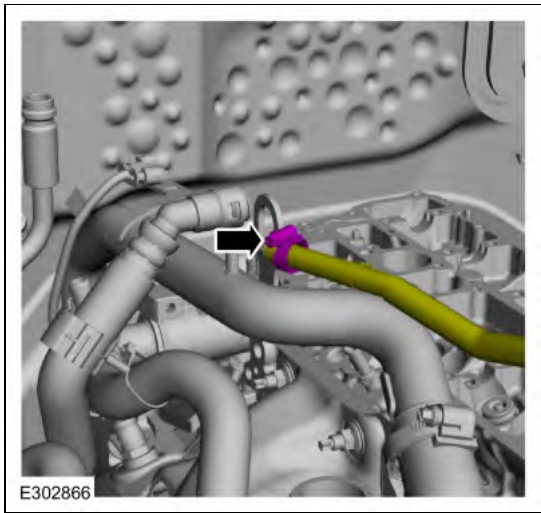
NOTICE: Do not loosen or remove the crankshaft pulley bolt without first installing the special tools as instructed in this procedure. The crankshaft pulley and the crankshaft timing sprocket are not keyed to the crankshaft. The crankshaft, the crankshaft sprocket and the pulley are fitted together by friction. For that reason, the crankshaft sprocket is also unfastened if the pulley bolt is loosened. Before any repair requiring loosening or removal of the crankshaft pulley bolt, the crankshaft and camshafts must be locked in place by the special service tools, otherwise severe engine damage can occur.

NOTICE: During engine repair procedures, cleanliness is extremely important. All parts must be thoroughly cleaned and 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.

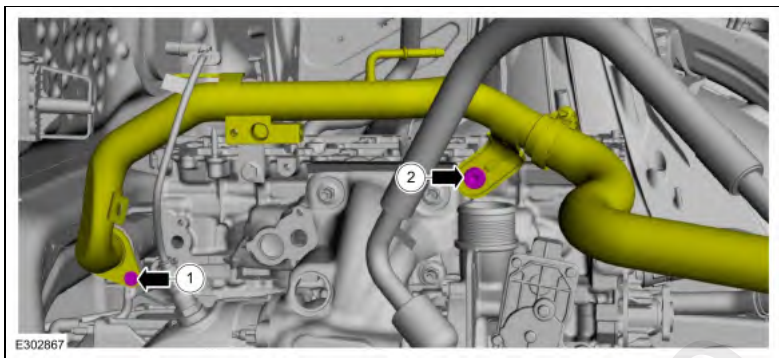
1. With the vehicle in NEUTRAL, position it on a hoist.
Refer to: Jacking and Lifting - Overview (100-02 Jacking and Lifting, Description and Operation).
2. Release the fuel system pressure.
Refer to: Fuel System Pressure Release (310-00A Fuel System - General Information - 2.3L EcoBoost (201kW/273PS), General Procedures).
3. Drain the cooling system.
Refer to: Engine Cooling System Draining, Vacuum Filling and Bleeding (303-03A Engine Cooling - 2.3L EcoBoost (201kW/273PS), General Procedures).
4. Remove the pin-type retainers, bolts and the rear underbody shield.



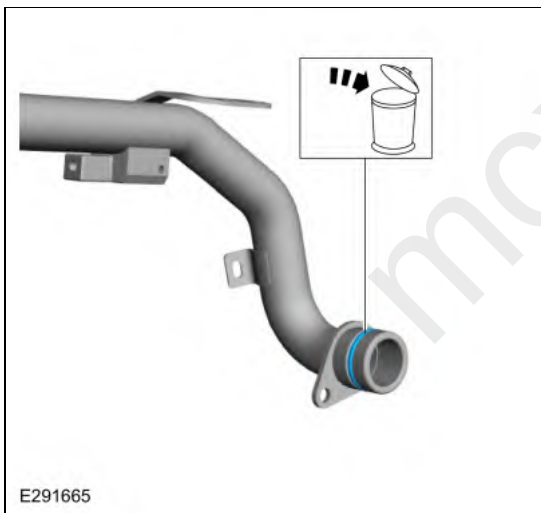
5. Remove the following items:
 1. Remove the intake manifold.
Refer to: Intake Manifold (303-01A Engine - 2.3L EcoBoost (201kW/273PS), Removal and Installation).
 2. Remove the CAC intake pipe.
Refer to: Charge Air Cooler (CAC) Intake Pipe (303-12A Intake Air Distribution and Filtering - 2.3L EcoBoost (201kW/273PS), Removal and Installation).
 3. Remove the valve tappets.
Refer to: Valve Tappets (303-01A Engine - 2.3L EcoBoost (201kW/273PS), Removal and Installation).
 4. Remove EGR cooler.
Refer to: Exhaust Gas Recirculation (EGR) Cooler (303-08A Engine Emission Control - 2.3L EcoBoost (201kW/273PS), Removal and Installation).
 5. Remove EGR inlet tube.
Refer to: Exhaust Gas Recirculation (EGR) Inlet Tube (303-08A Engine Emission Control - 2.3L EcoBoost (201kW/273PS), Removal and Installation).
6. Loosen the clamp and position the degas bottle coolant hose aside.



- 7.
1. Remove the coolant tube bolt.
 2. Remove the torx bolt and position the coolant tube and hose aside.



8. Remove and discard the coolant tube O-ring seal.



9. Detach the wiring harness retainers from the coolant outlet stud bolts.