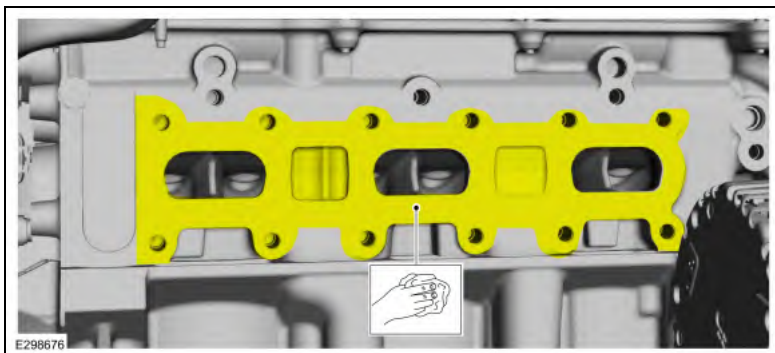


9. Clean and inspect the RH exhaust manifold.

Refer to: Exhaust Manifold Cleaning and Inspection (303-00 Engine System - General Information, General Procedures).

10. **NOTICE:** Do not use metal scrapers, wire brushes, power abrasive discs or other abrasive means to clean the sealing surfaces. These may cause scratches and gouges resulting in leak paths. Use a plastic scraper to clean the sealing surfaces.

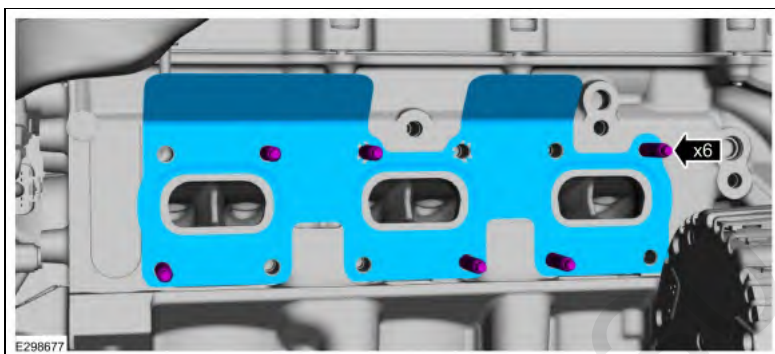
Clean the exhaust manifold mating surface of the cylinder head.



Installation

1.

- Install the new exhaust manifold studs.
Torque: 106 lb.in (12 Nm)
- Install the new exhaust manifold gasket.



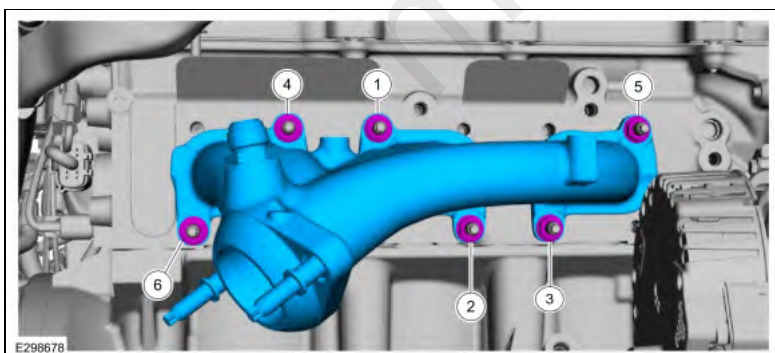
2. **NOTICE:** Failure to tighten the exhaust manifold nuts to specification a second time will cause the exhaust manifold to develop an exhaust leak.

Install the exhaust manifold and the new nuts.

Torque:

Stage 1: 168 lb.in (19 Nm)

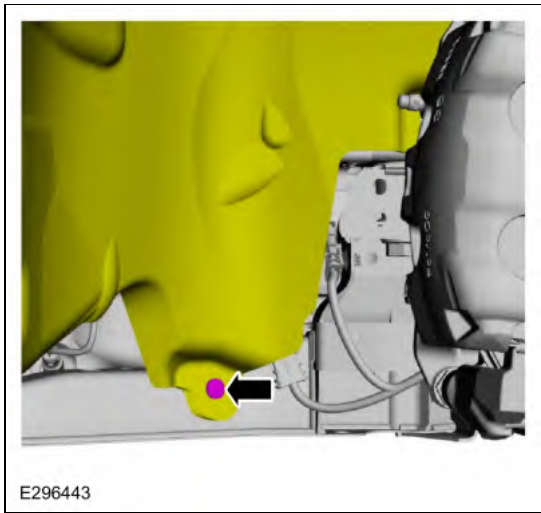
Stage 2: 18 lb.ft (25 Nm)



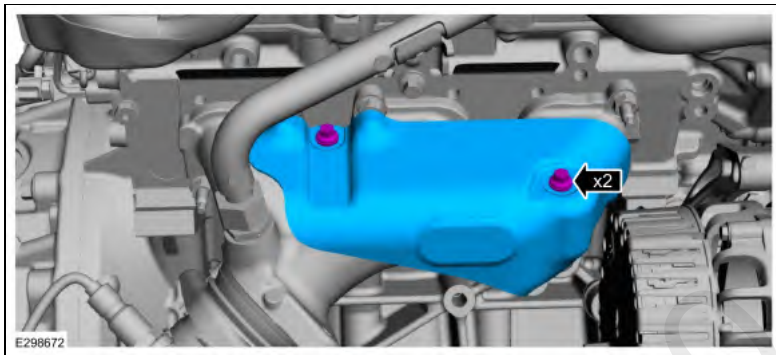
3. Install the following items:

1. Install the EGR inlet tube.
Refer to: Exhaust Gas Recirculation (EGR) Inlet Tube (303-08D Engine Emission Control - 3.3L Duratec-V6 â€” Hybrid (BP), Removal and Installation).
2. Install the RH catalytic converter.
Refer to: Catalytic Converter RH (309-00D Exhaust System - 3.3L Duratec-V6 â€” Hybrid (BP), Removal and Installation).

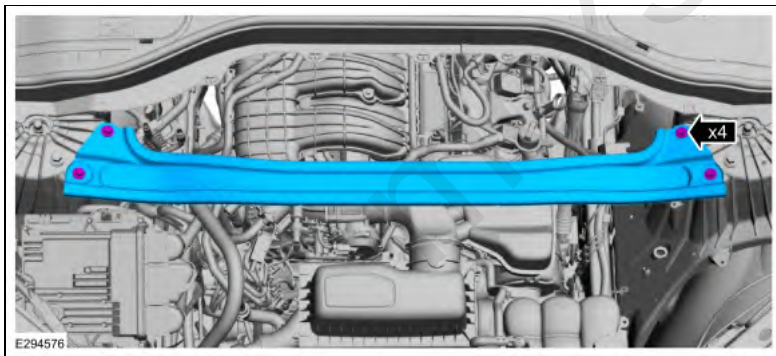
4. Install the splash shield pin-type retainer to the RH subframe.



5. Install the RH front wheel and tire.
Refer to: Wheel and Tire (204-04A Wheels and Tires, Removal and Installation).
6. Install the exhaust manifold heat shield and the bolts.
Torque: 106 lb.in (12 Nm)



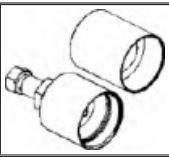
7. Install the suspension support bar and the bolts.
Torque: 22 lb.ft (30 Nm)



8. Start the engine and check the exhaust for leaks.

Front Cover to Coolant Pipe Seal

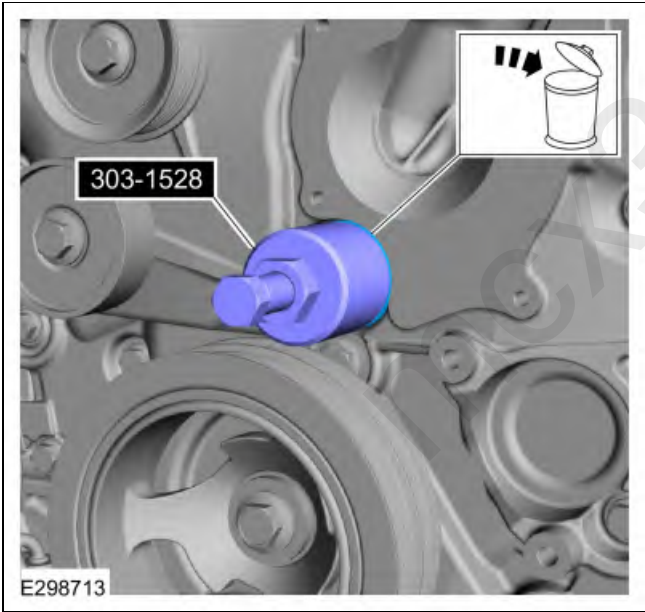
Special Tool(s) / General Equipment

	303-1528 Remover/Installer, Water Tube Seal
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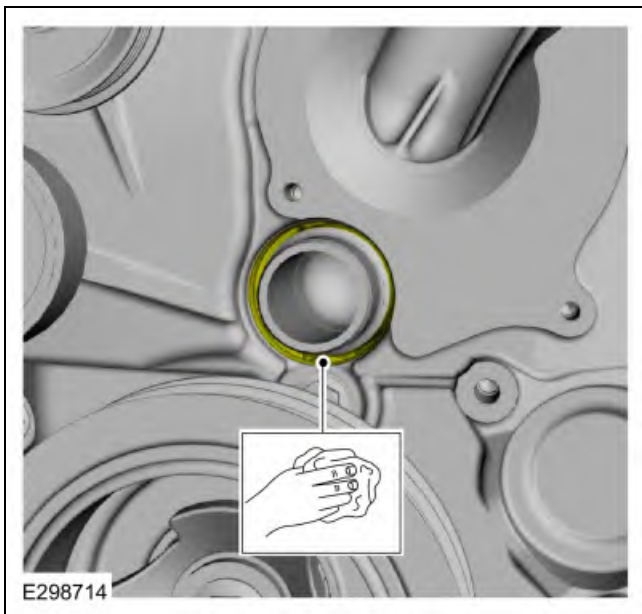
Removal

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, may cause engine failure.

1. Remove the coolant pump.
Refer to: Coolant Pump (303-03D Engine Cooling - 3.3L Duratec-V6 Hybrid (BP), Removal and Installation).
2.
 - Using the special tool, remove the front cover to coolant pipe seal.
Use Special Service Tool: 303-1528 Remover/Installer, Water Tube Seal.
 - Reset the special tool center bolt to its retracted position.
 - Screw the special tool onto the front cover to coolant pipe seal until it bottoms out.
 - Using a brass hammer, give the special tool a slight tap inward to break front cover radial seal lose.
 - Turn the special tool center bolt clockwise and remove the front cover to coolant pipe seal.

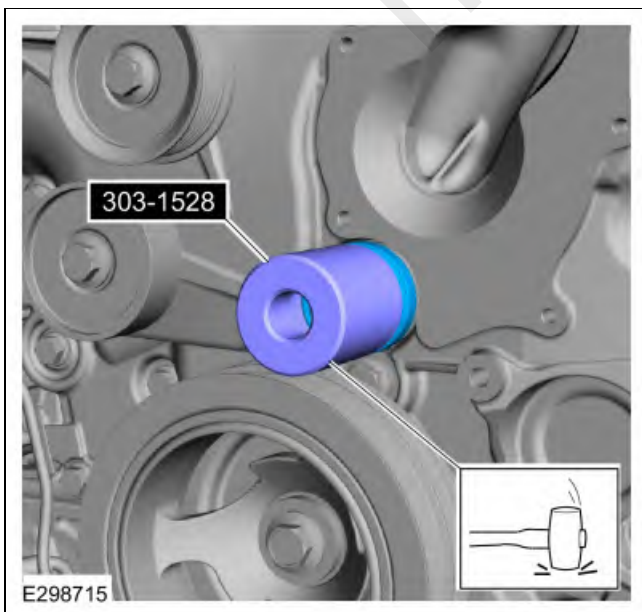


3. Clean the engine front cover to coolant pipe seal area.



Installation

1.
 - Using the special tool, install the front cover to coolant pipe seal.
 - Use Special Service Tool: 303-1528 Remover/Installer, Water Tube Seal.
 - Position the front cover to coolant pipe seal on the special tool.
 - Position the special tool into the engine front cover.
 - Using a brass hammer, tap the special tool until the front cover to coolant pipe seal bottoms out.



2. Inspect the front cover to coolant pipe seal for proper installation or damage.