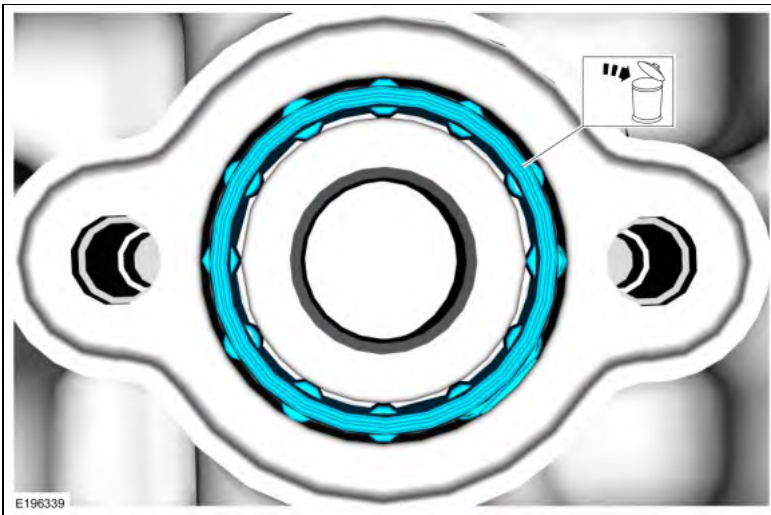


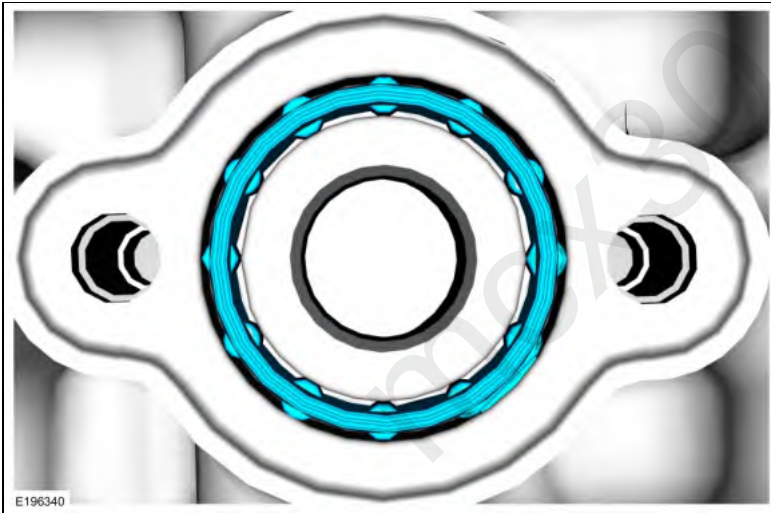


Installation

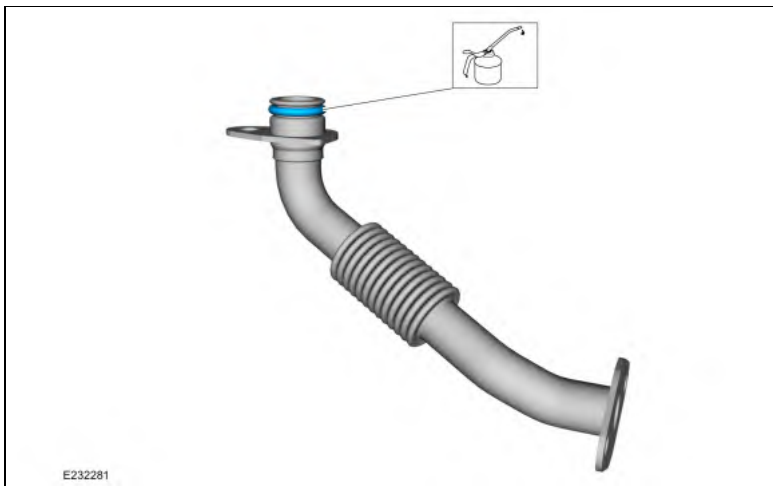
NOTICE: Make sure that the mating faces are clean and free of foreign material.

All vehicles

- 1. Install the new turbocharger oil return tube to engine gasket.

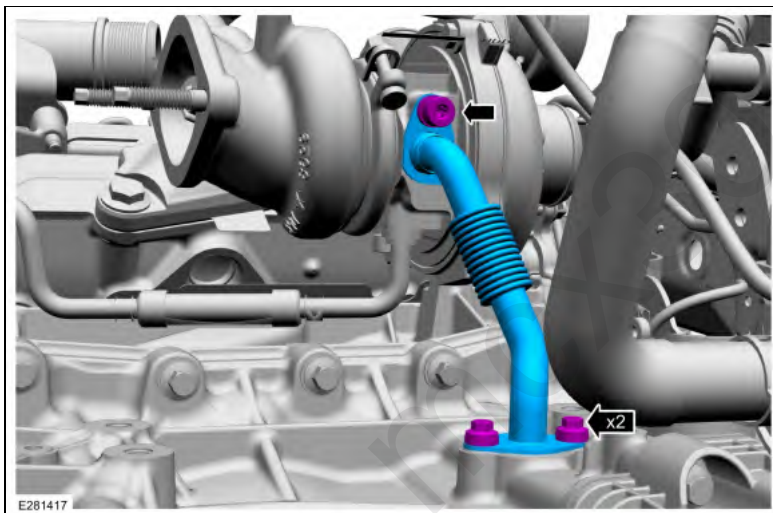


- 2. Install a new turbocharger oil return tube O-ring seal and lubricate with clean engine oil.
Refer to: Specifications (303-01B Engine - 2.7L EcoBoost (238kW/324PS), Specifications).



3. **NOTICE: Do not use a metal brush, damage to sealing area will result in leaks.**

- Carefully use a nylon brush to remove the old O-ring residue and use brake cleaner to rinse the O-ring residue out of the turbocharger O-ring bore. Inspect the area for deep scratches and gouges. Install new components as needed.
Material: Motorcraft® Metal Brake Parts Cleaner / PM-4-A, PM-4-B
- 1. Install the turbocharger oil return tube, then install and tighten the turbocharger oil return tube retainers.
Torque: 89 lb.in (10 Nm)

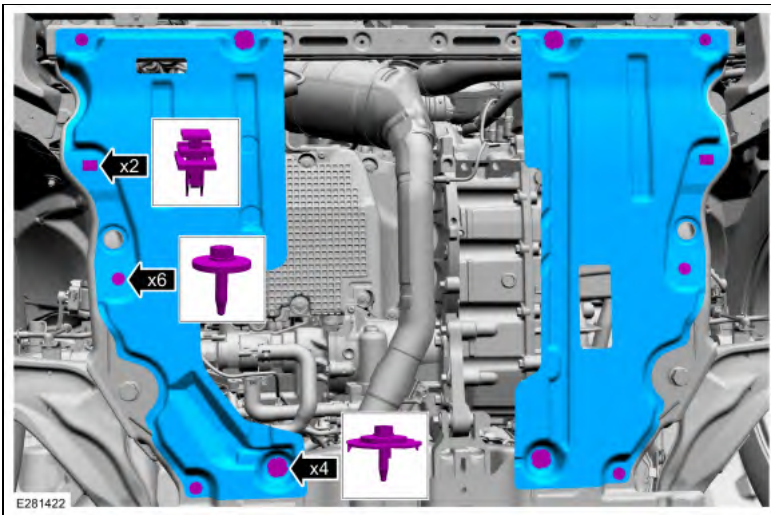


AWD (all-wheel drive)

4. Install the transfer case.

All vehicles

5. Install the underbody shields and the retainers.



- Check and top off the engine oil level as needed.
Refer to: Specifications (303-01B Engine - 2.7L EcoBoost (238kW/324PS), Specifications).

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Turbocharger Oil Supply Tube LH

Materials

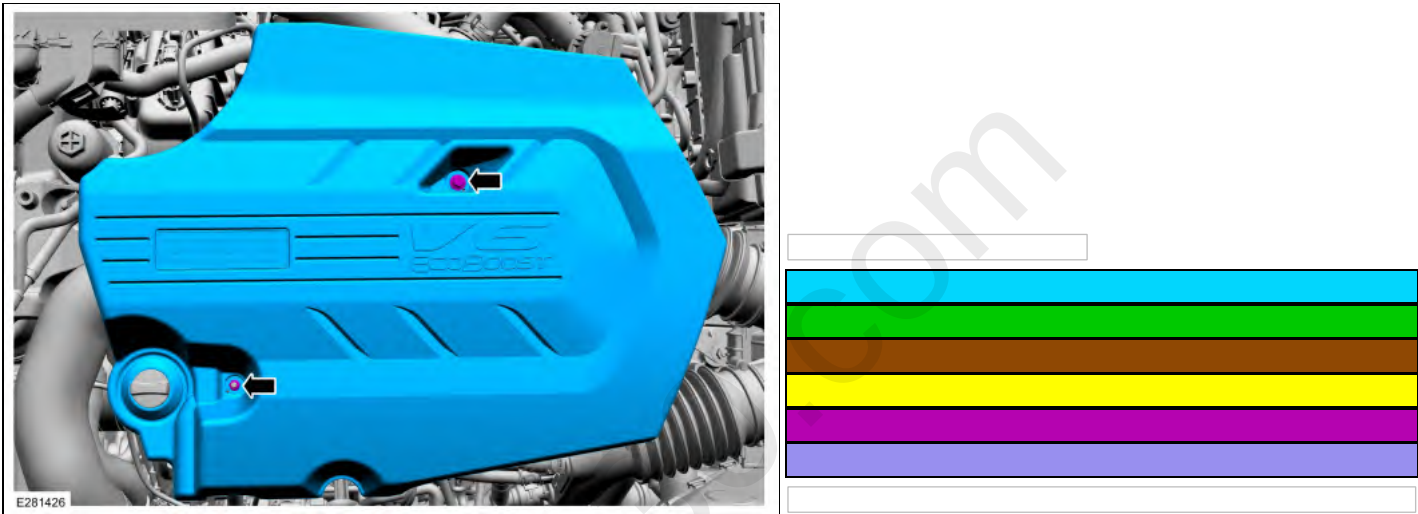
Name	Specification
Motorcraft® Metal Brake Parts Cleaner PM-4-A, PM-4-B	-

Removal

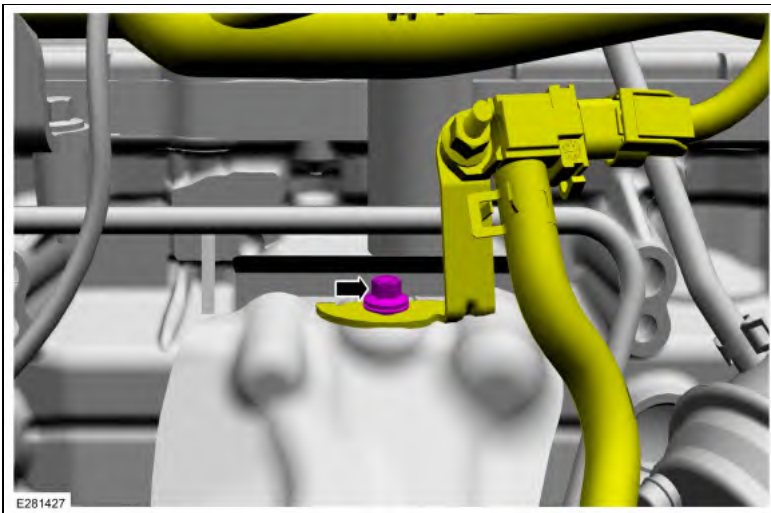
NOTICE: The turbocharger compressor vanes can be damaged by even the smallest particles. When removing any turbocharger or engine air intake system component, ensure that no debris enters the system. Failure to do so may result in damage to the turbocharger.

NOTICE: Special attention needs to be given to the sealing ports for the oil feed, the oil drain, and the coolant lines, on turbocharged engines. The sealing ports must be totally clean and free from O-ring residue, have no damage to the sealing surface and the lines to ensure that there are no leaks or repeat repairs.

1. Remove the engine appearance cover retainers, then remove the engine appearance cover.

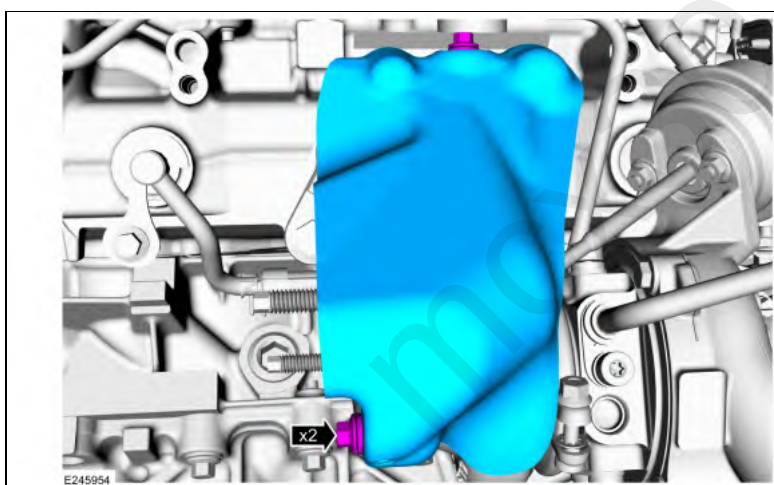


2. Remove the generator.
Refer to: Generator - 2.7L EcoBoost (238kW/324PS) (414-02 Generator and Regulator, Removal and Installation).
3. Remove the catalytic converter LH.
Refer to: Catalytic Converter LH (309-00B Exhaust System - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
4. If equipped, remove the bolt, then move the bracket and sensor out of the way.



5. **NOTE:** *If equipped with the sensor in the previous step, only the lower heat shield bolt will need to be removed.*

Remove the turbocharger heat shield bolts, then remove the turbocharger heat shield.



6. Detach the electrical connector retainer, then detach the electrical harness retainers from the valve cover studbolts and the valve cover.