

32.

Check and top off the engine oil level as needed.

Material

: Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil / XO-5W30-QSP (WSS-M2C946-A)

33.

Start and check the exhaust system for leaks.

REMOVAL AND INSTALLATION > TURBOCHARGER RH

Materials

Name	Specification
Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil XO-5W30-QSP	WSS-M2C946-A
High Temperature Nickel Anti-Seize Lubricant XL-2	-
Motorcraft® Orange Concentrated Antifreeze/Coolant VC-3-B	WSS-M97B44-D

REMOVAL AND INSTALLATION > TURBOCHARGER RH > REMOVAL



NOTE: Whenever turbocharger air intake system components are removed, always cover open ports to protect from debris. It is important that no foreign material enter the system. The turbocharger compressor vanes are susceptible to damage from even small particles. All components should be inspected and cleaned, if necessary, prior to installation or reassembly.



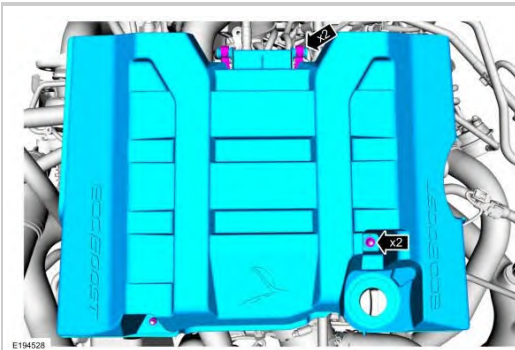
NOTE: Some turbos are equipped with a heat shield, heat shields were deleted and some service turbos will not have mounting bosses for the heat shield.

1.

With the vehicle in NEUTRAL, position it on a hoist. REFER to: Jacking and Lifting - Overview .

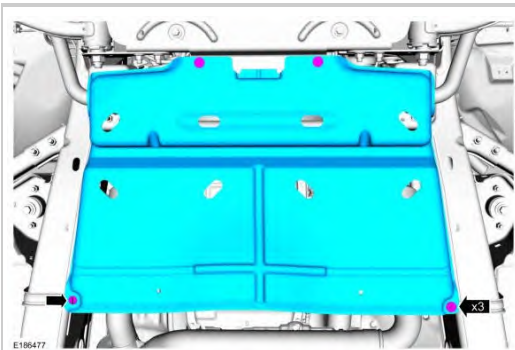
2.

Remove the engine appearance cover retainers and then remove the engine appearance cover.



3.

If equipped, remove the retainers and the transmission housing cover.

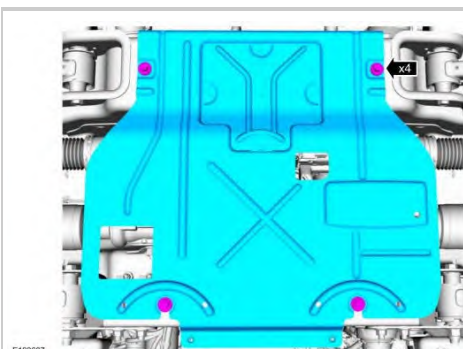


4.

 **NOTE:** Vehicles come with a skid plate or a splash shield.

 **NOTE:** Skid plate shown in illustration, splash shield similar.

If equipped, remove the bolts and the skid plate or splash shield.



5.

Drain the cooling system. REFER to: COOLING SYSTEM DRAINING AND VACUUM FILLING .

6.

Remove the RHF tire. REFER to: Wheel and Tire .

7.

Remove the RHF fender splash shield. REFER to: Fender Splash Shield .

8.

Remove the Air Cleaner Outlet Pipe RH. REFER to: AIR CLEANER OUTLET PIPE RH .

9.

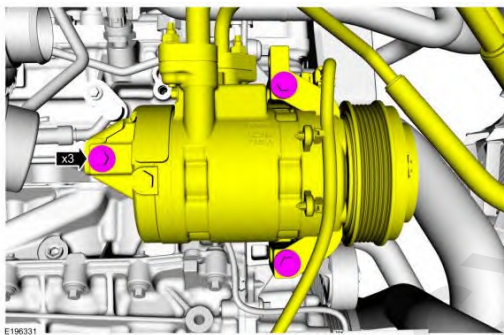
Remove the RHCAC intake pipe. REFER to: CHARGE AIR COOLER (CAC) INTAKE PIPE .

10.

Remove the Accessory Drive Belt. REFER to: ACCESSORY DRIVE BELT .

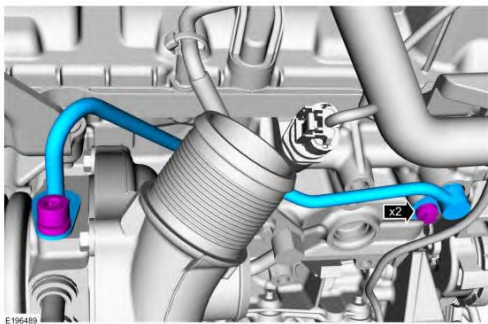
11.

Remove the A/C compressor mounting bolts and position the A/C compressor aside.



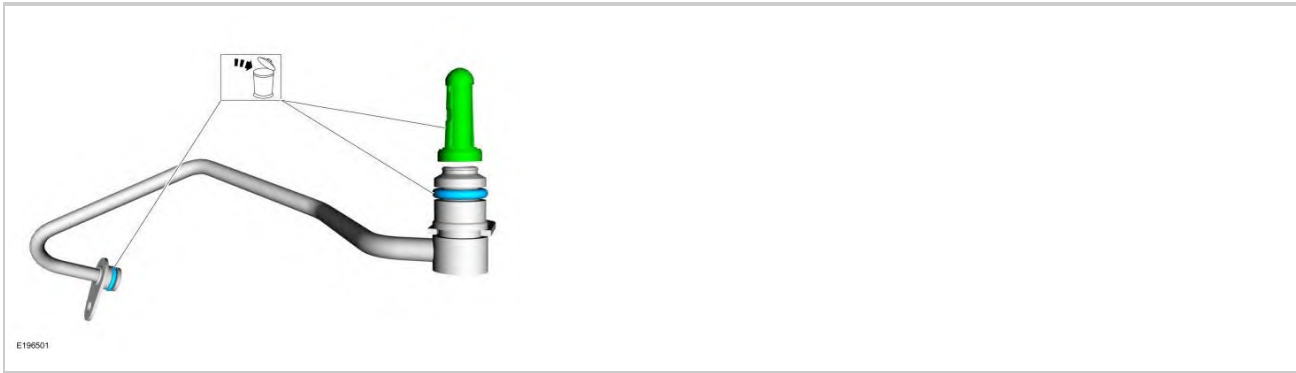
12.

Remove the TC oil supply tube bolts and then remove the TC oil supply tube.



13.

Remove and discard the TC oil supply tube O-ring seals and the TC oil supply tube oil filter.



14.

Remove and discard the TC exhaust flange nuts.



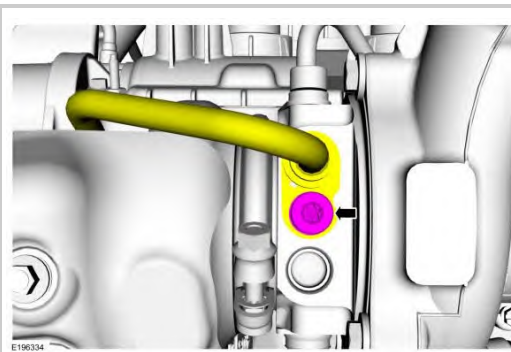
15.

Remove and discard the TC exhaust flange studbolts.



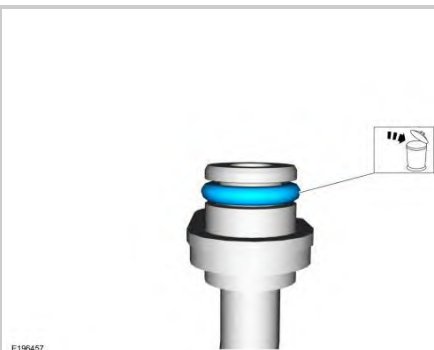
16.

Remove the TC coolant return tube bolt, then disconnect the TC coolant return tube and position out of the way.



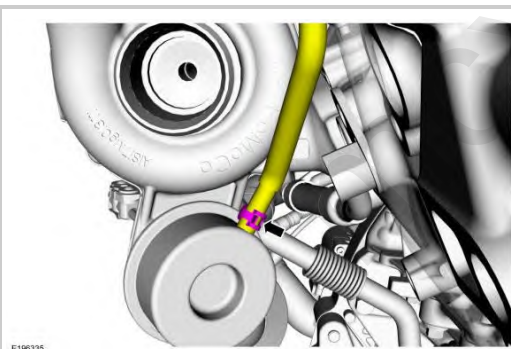
17.

Remove and discard the TC coolant return tube O-ring seal.



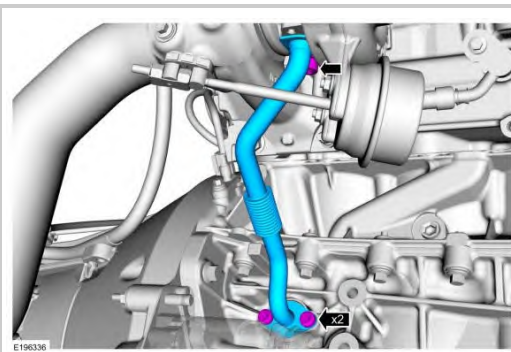
18.

Disconnect the clamp and the TC wastegate control hose.



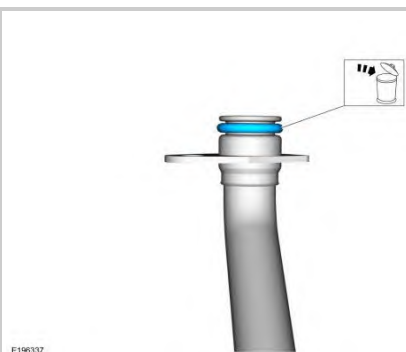
19.

Remove the TC oil return tube bolts and then remove the TC oil return tube.



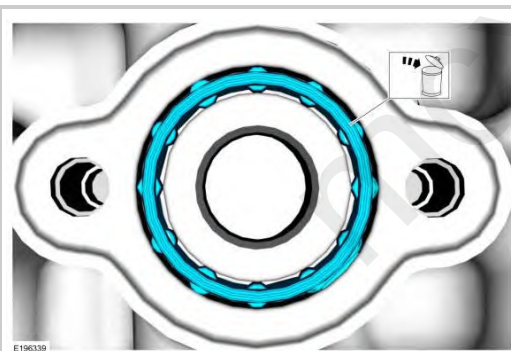
20.

Remove and discard the TC oil return tube O-ring seal.



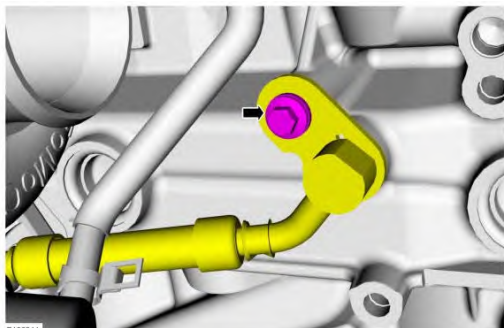
21.

Remove and discard the TC oil return tube tube-to-engine block gasket.



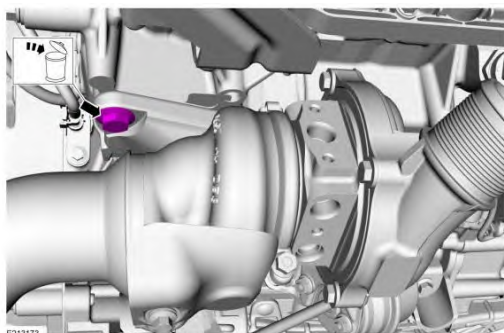
22.

Remove the TC coolant supply tube bolt.



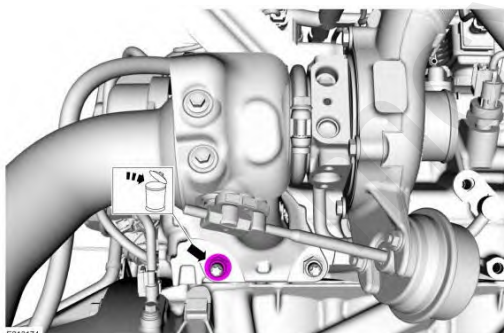
23.

Remove and discard the TC bolt.



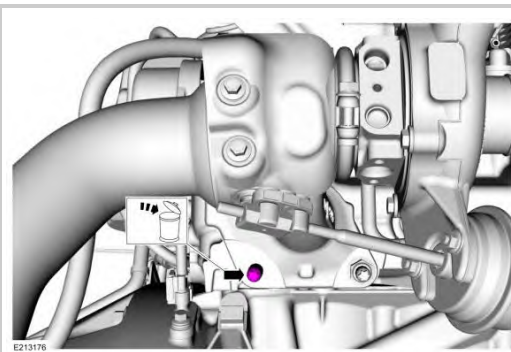
24.

Remove and discard the lower left TC nut.



25.

Remove and discard the lower left TC mounting stud.

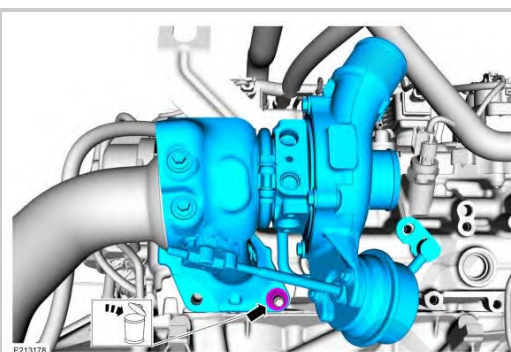


26.

 **NOTE:** Remove the TC coolant supply tube from the engine block while removing the TC.

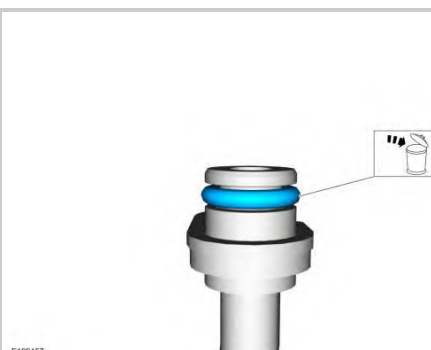
 **NOTE:** Make sure that the mating faces are clean and free of foreign material.

Remove and discard the TC nuts and then remove the TC.



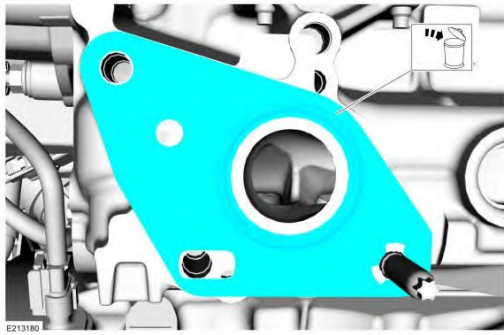
27.

Remove and discard the TC coolant supply tube O-ring seal.



28.

Remove and discard the TC gasket.



29.

Remove and discard the TC mounting stud.



30.

Remove and discard the TC exhaust flange gasket.



31.

If needed remove the TC coolant supply tube bolt, and then remove the TC coolant supply tube from the TC.