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2024 Ford F-250 Super Duty Service and Repair Manual

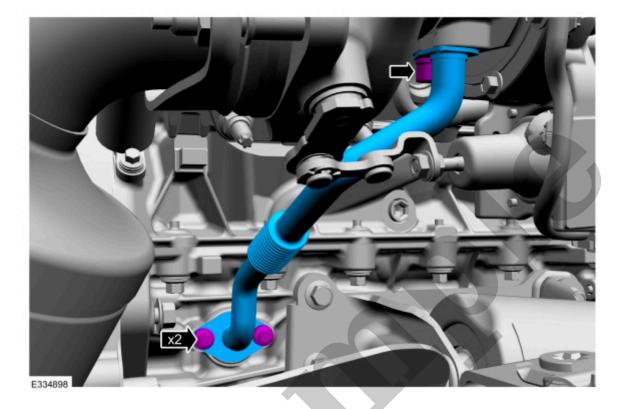
Go to manual page

Refer to: Engine Front Undershield(501-02 Front End Body Panels, Removal and Installation).

4. Remove the right front fender splash shield.

Refer to: Fender Splash Shield(501-02 Front End Body Panels, Removal and Installation).

5. Remove the turbocharger oil return tube bolts, then remove the turbocharger oil return tube.



Click here to learn about symbols, color coding, and icons used in this manual.

6. 1. NOTICE

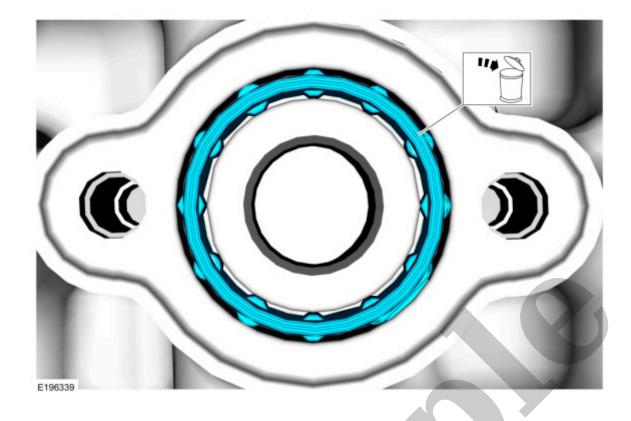
Do not use a metal brush, damage to sealing area will result in leaks.

Inspect for blockage in the turbocharger tube. Check the tube, the sealing surfaces and the flange for flatness and damage. Use brake cleaner and a nylon brush to clean. Install new components as needed.

Material : Motorcraft® Metal Brake Parts Cleaner / PM-4-A, PM-4-B

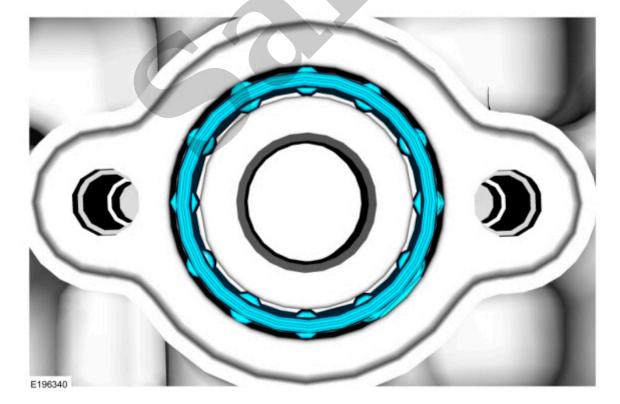
2. NOTICE

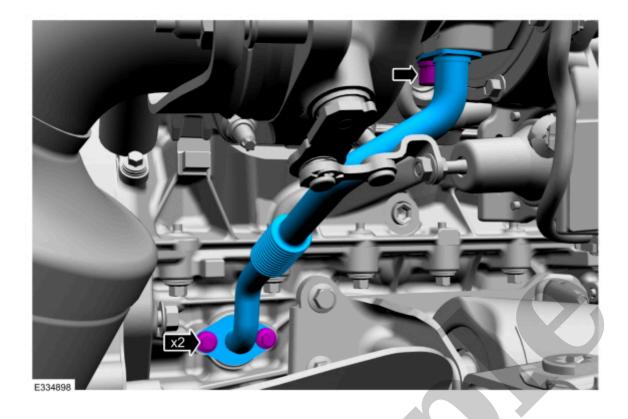
Do not use a metal brush, damage to sealing area will result in leaks.



Installation

- 1. Make sure that the mating faces are clean and free of foreign material.
- 2. Install the new turbocharger oil return tube-to-engine block gasket.





5. Install the right front fender splash shield.

Refer to: Fender Splash Shield(501-02 Front End Body Panels, Removal and Installation).

6. If equipped, install the engine front undershield.

Refer to: Engine Front Undershield(501-02 Front End Body Panels, Removal and Installation).

7. If equipped, install the engine rear undershield.

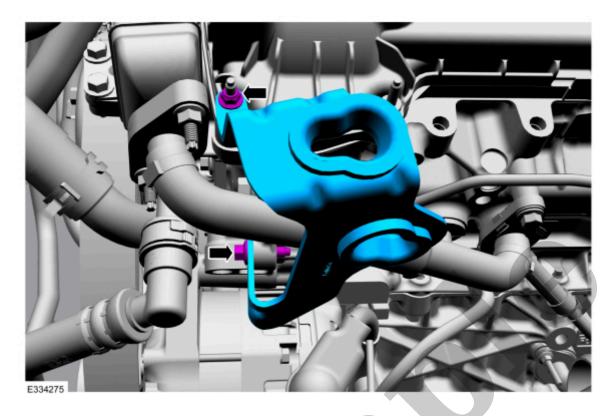
Refer to: Engine Rear Undershield(501-02 Front End Body Panels, Removal and Installation).

8. Check and top off the engine oil level as needed.

Refer to: Specifications(303-01A Engine - 2.7L EcoBoost (238kW/324PS), Specifications).

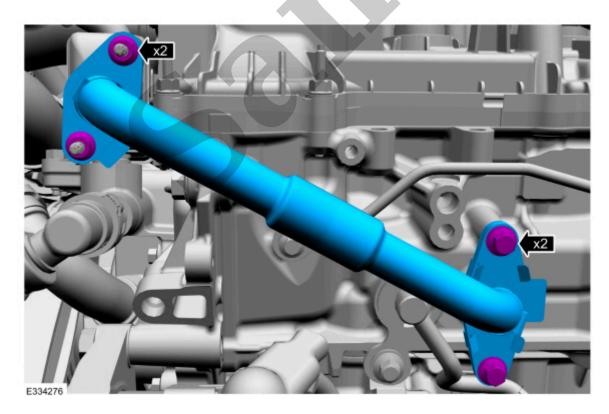
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3. Remove the air tube bracket retainers, then remove the air tube bracket.



Click here to learn about symbols, color coding, and icons used in this manual.

4. Remove the EGR tube retainers, then remove the EGR tube.



Click here to learn about symbols, color coding, and icons used in this manual.

7. 1. **NOTICE**

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

Inspect the turbocharger tube and the sealing surfaces. Ensure that the retaining bracket is not bent, check for square-ness of the retaining bracket to the O-ring area. Use brake cleaner and a nylon brush to clean. Install new components as needed.

Material : Motorcraft® Metal Brake Parts Cleaner / PM-4-A, PM-4-B

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



Click here to learn about symbols, color coding, and icons used in this manual.

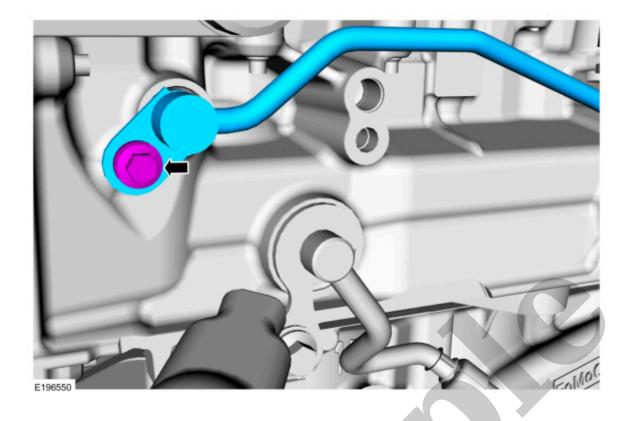
Installation

1. NOTICE

A new turbocharger oil supply tube filter must be installed. Failure to install a new filter will cause turbocharger failure.

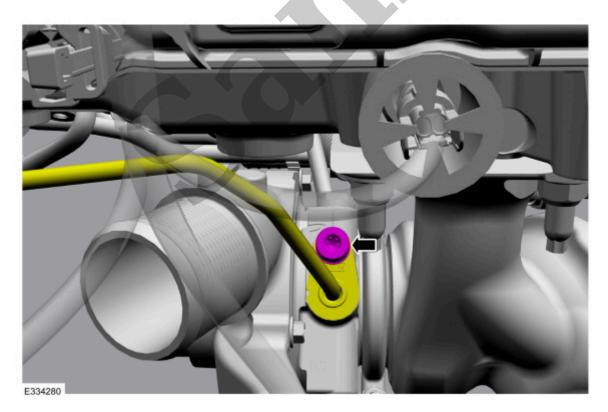
Install the new O-ring seals and the new turbocharger oil supply tube oil filter. Lubricate the new O-ring seals with clean engine oil.

Refer to: Specifications(303-01A Engine - 2.7L EcoBoost (238kW/324PS), Specifications).



3. Connect the turbocharger oil supply tube to the turbocharger, then install and tighten the bolt.

Torque : 89 lb.in (10 Nm)



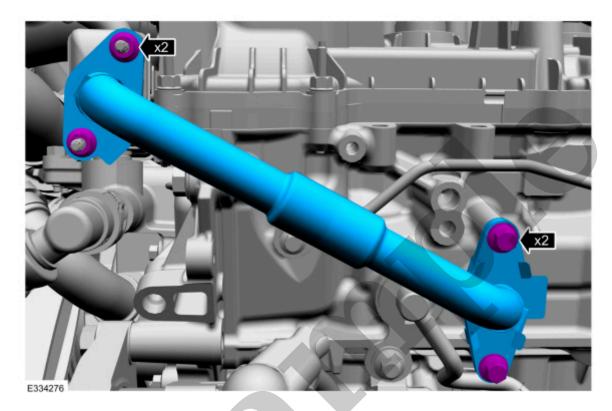
Click here to learn about symbols, color coding, and icons used in this manual.

6. Install the EGR tube, then install and tighten the EGR tube retainers.

Torque :

Tighten the nuts to : 89 lb.in (10 Nm)

Tighten the bolts to : 89 lb.in (10 Nm)



Click here to learn about symbols, color coding, and icons used in this manual.

7. Install the air tube bracket, then install and the air tube bracket retainers.

Torque :

Tighten the nut to : 53 lb.in (6 Nm)

Tighten the bolt to : 53 lb.in (6 Nm)

Turbocharger Oil Supply Tube RH

<i>303-04F Fuel Charging and Controls - Turbo (238kW/324PS)</i>	ocharger - 2.7L EcoBoost 2022 F-150
Removal and Installation	Procedure revision date: 10/1/2020
Turbocharger Oil Supply Tube RH	
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.

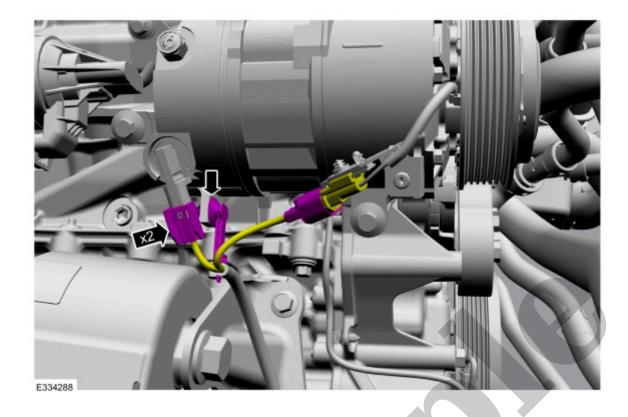
1. With the vehicle in NEUTRAL, position it on a hoist.

Refer to: Jacking and Lifting - Overview(100-02 Jacking and Lifting, Description and Operation).

2. Remove the right front fender splash shield.

Refer to: Fender Splash Shield(501-02 Front End Body Panels, Removal and Installation).

3. Remove the air cleaner outlet pipe RH.



7. **NOTE**

Frame removed for clarity.

Loosen the bolts, then the position the A/C (air conditioning) compressor out of the way.