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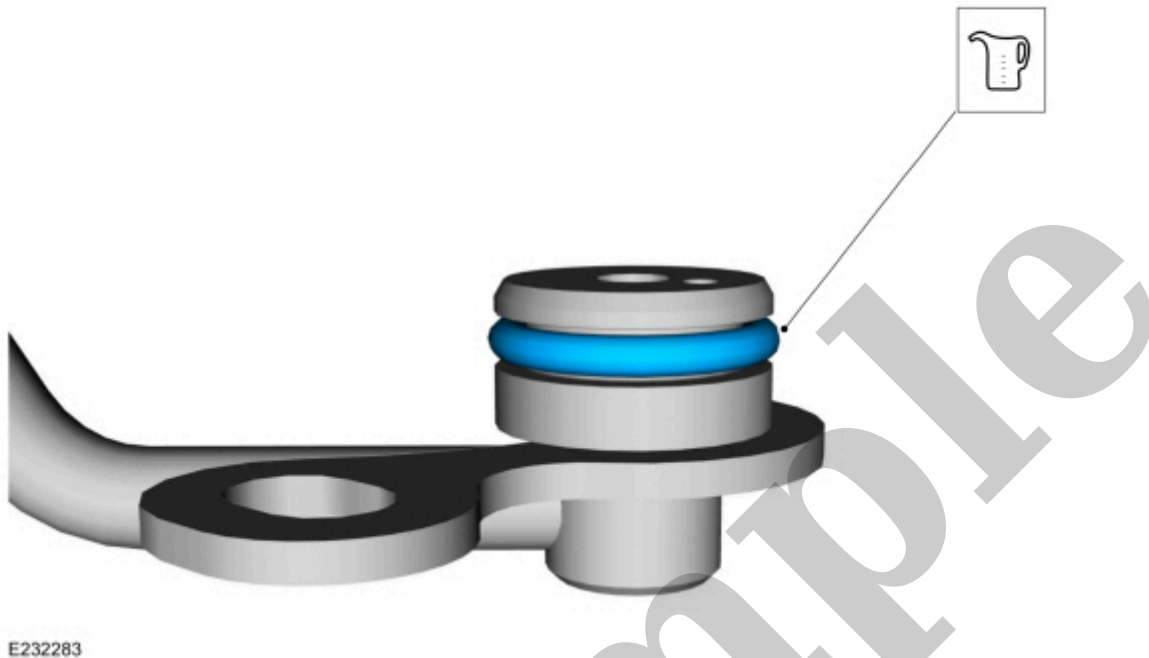
## 2024 Ford F-550 Super Duty Service and Repair Manual

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2. Install a new O-ring seal. Lubricate the new O-ring seal with clean engine coolant.

Refer to: [Specifications](#)(303-03A Engine Cooling - 2.7L EcoBoost (238kW/324PS), Specifications).



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### 3. 1. 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 tube O-ring bores. Inspect the area for deep scratches and gouges. Install new components as needed.

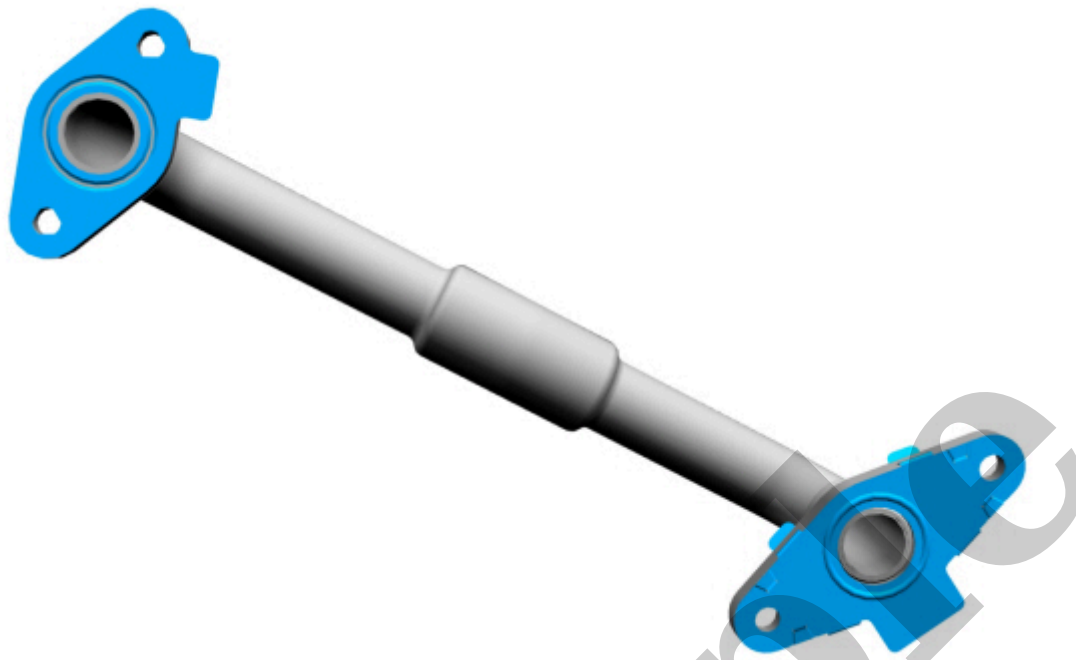
**Material** : Motorcraft® Metal Brake Parts Cleaner / PM-4-A, PM-4-B

2. Install the turbocharger coolant supply tube, then install and tighten the bolt.

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

**Torque** : 89 lb.in (10 Nm)

5. Install the new EGR tube gaskets.



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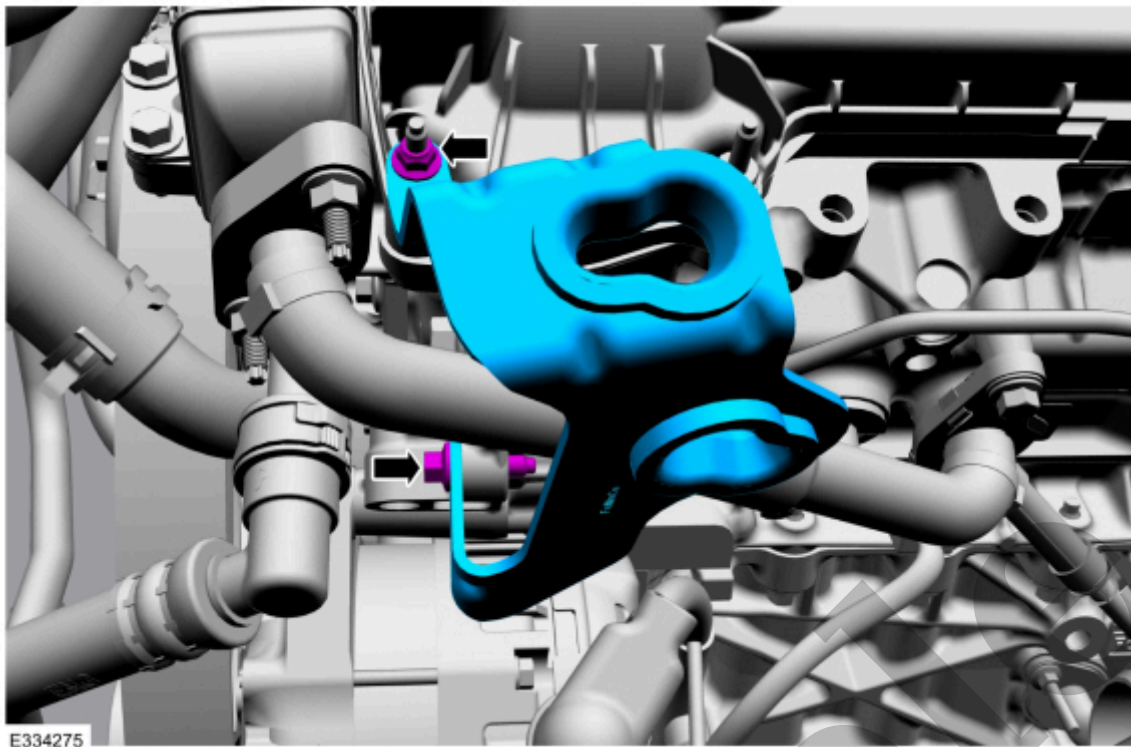
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6. Install the EGR tube, then install and tighten the EGR tube retainers.

***Torque :***

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

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



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8. Install the left charge air cooler intake pipe.

Refer to: [Charge Air Cooler \(CAC\) Intake Pipe](#)(303-12A Intake Air Distribution and Filtering - 2.7L EcoBoost (238kW/324PS), Removal and Installation).

9. Install the air cleaner outlet pipe LH.

Refer to: [Air Cleaner Outlet Pipe LH](#)(303-12A Intake Air Distribution and Filtering - 2.7L EcoBoost (238kW/324PS), Removal and Installation).

10. Install the left front fender splash shield.

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

11. If equipped, install the engine front undershield.

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

12. If equipped, install the engine rear undershield.

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

13. Fill the cooling system.

Refer to: [Engine Cooling System Draining, Vacuum Filling and Bleeding](#)(303-03A Engine Cooling - 2.7L EcoBoost (238kW/324PS), General Procedures).



## Turbocharger Coolant Supply Tube RH

<b>303-04F Fuel Charging and Controls - Turbocharger - 2.7L EcoBoost (238kW/324PS)</b>	<b>2022 F-150</b>
<b>Removal and Installation</b>	<b>Procedure revision date: 11/12/2020</b>

### Turbocharger Coolant 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.

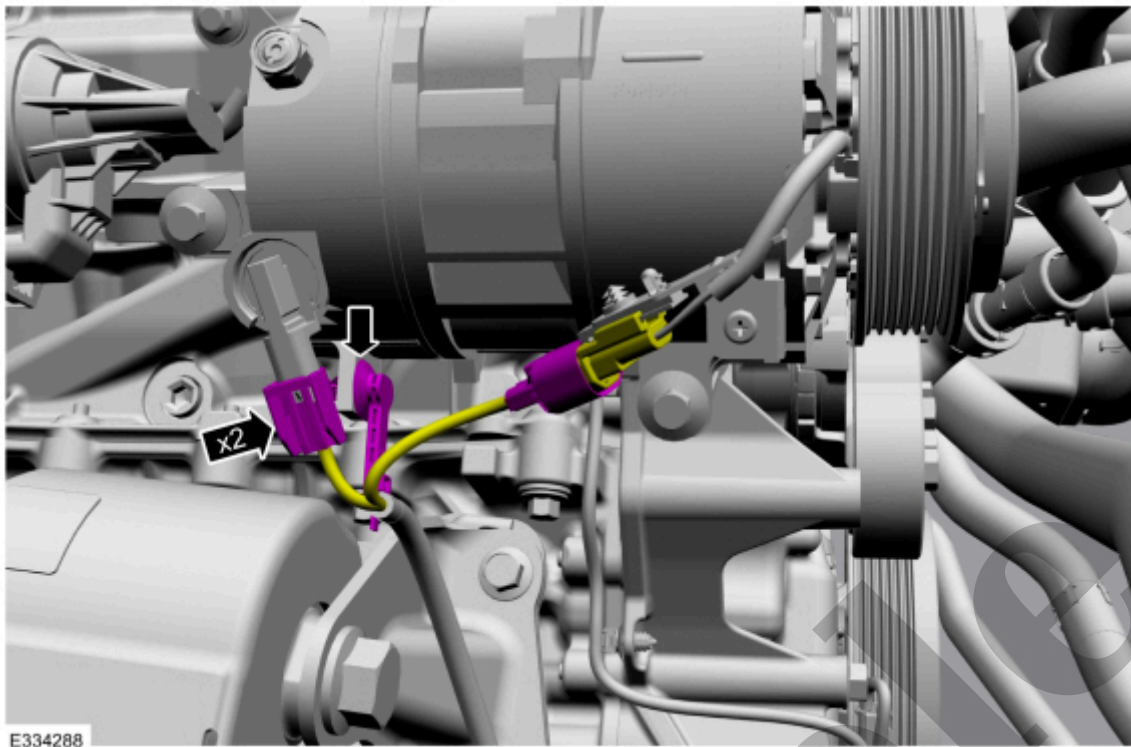
1. With the vehicle in NEUTRAL, position it on a hoist.

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

2. Drain the cooling system.

Refer to: [Engine Cooling System Draining, Vacuum Filling and Bleeding](#)(303-03A Engine Cooling - 2.7L EcoBoost (238kW/324PS), General Procedures).

3. Remove the right front fender splash shield.

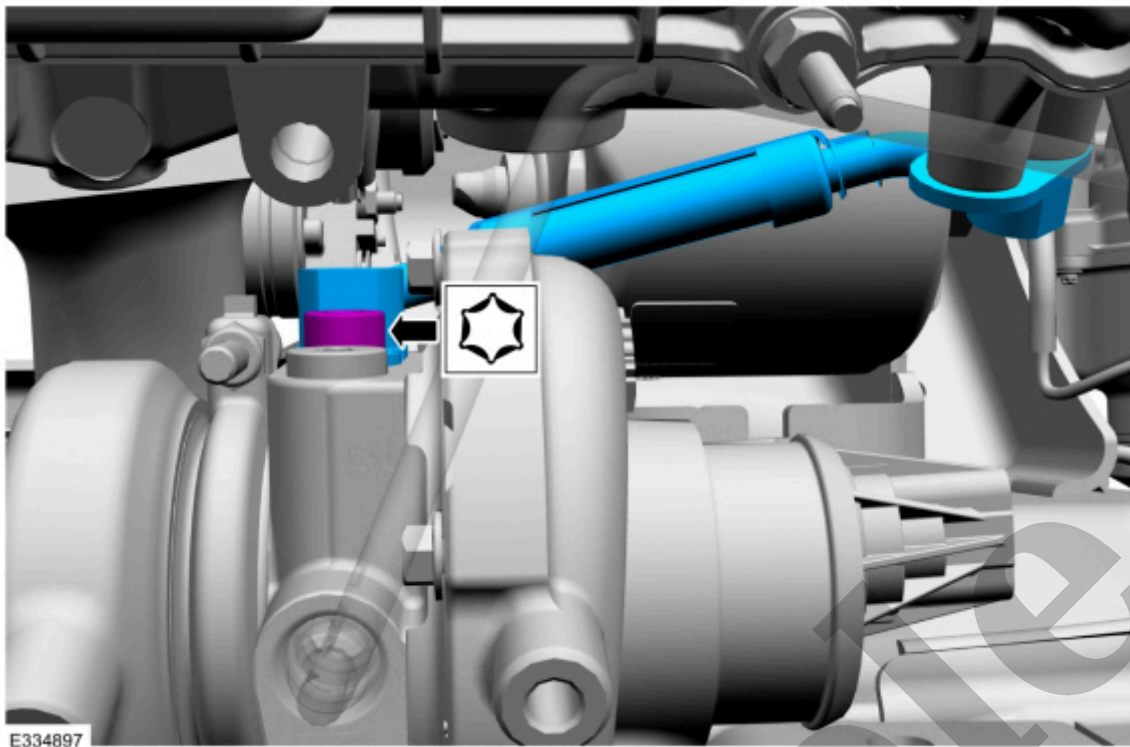


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8. **NOTE**

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



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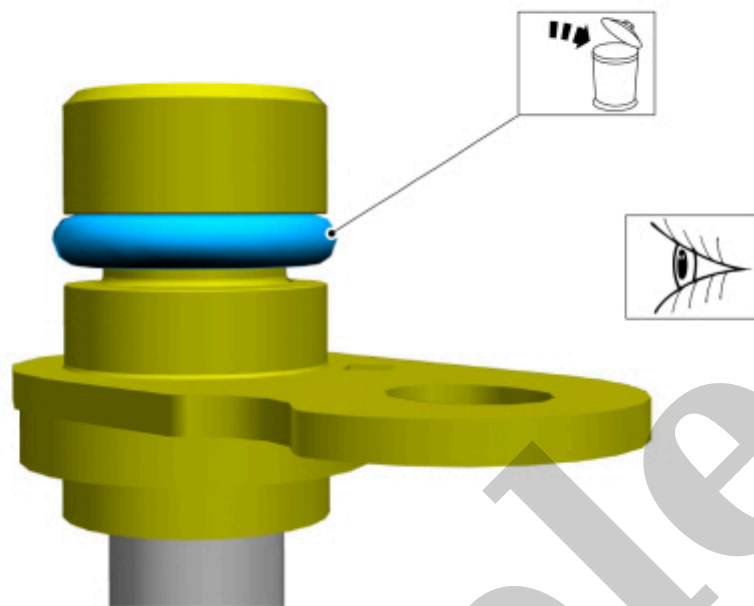
11. 1. **NOTICE**

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 seal.



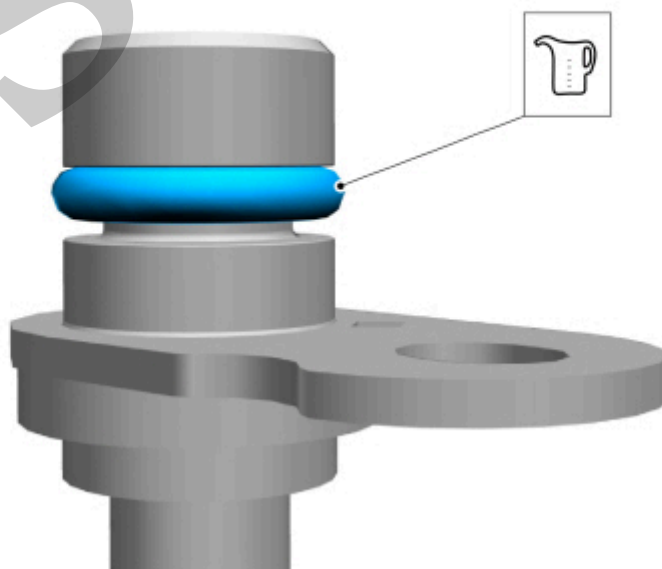
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### Installation

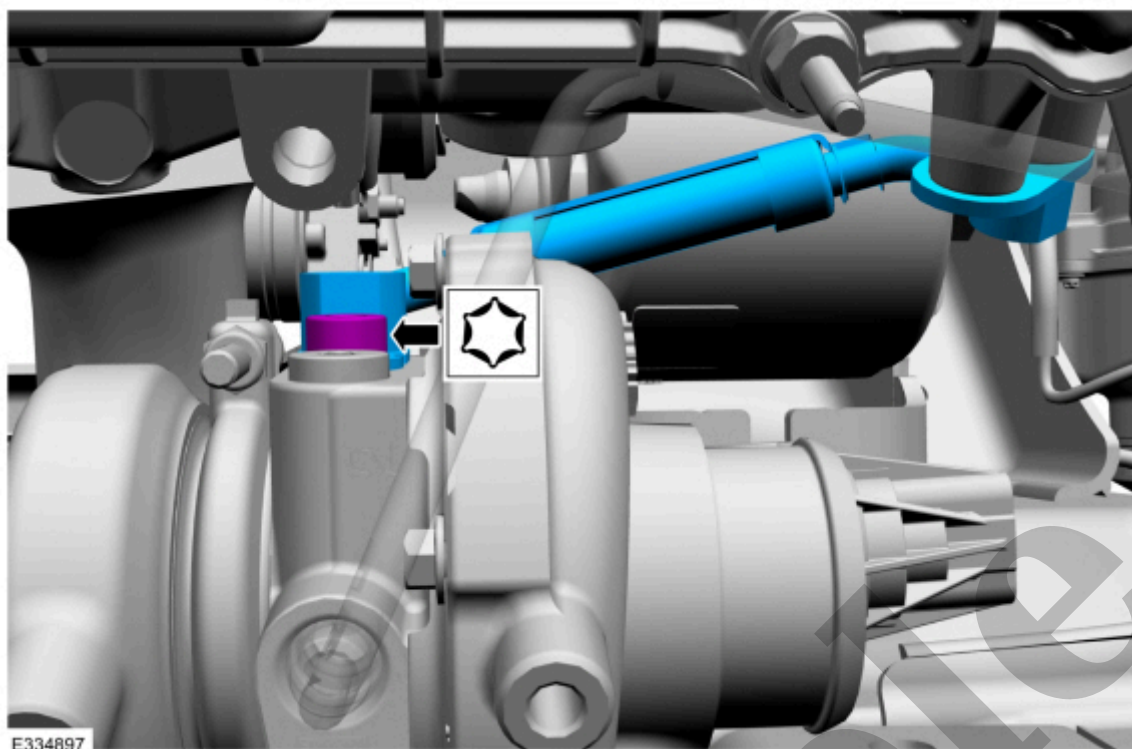
1. Install a new O-ring seal. Lubricate the new O-ring seal with clean engine coolant.

Refer to: [Specifications](#)(303-03A Engine Cooling - 2.7L EcoBoost (238kW/324PS), Specifications).



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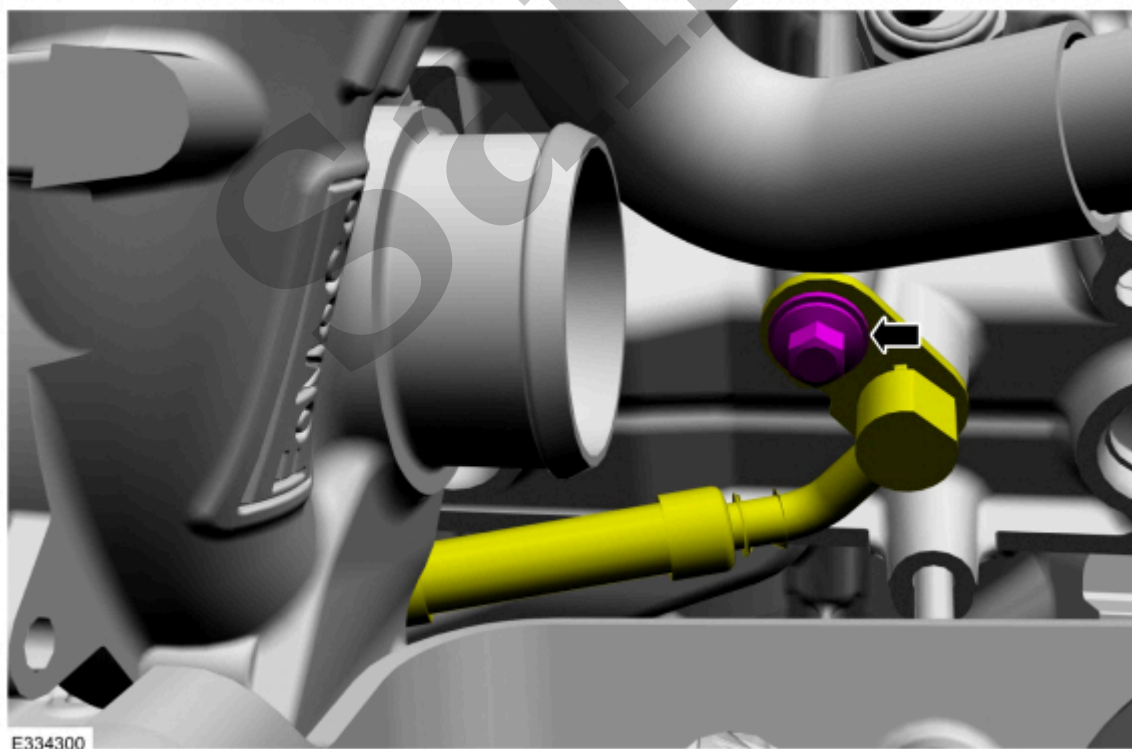




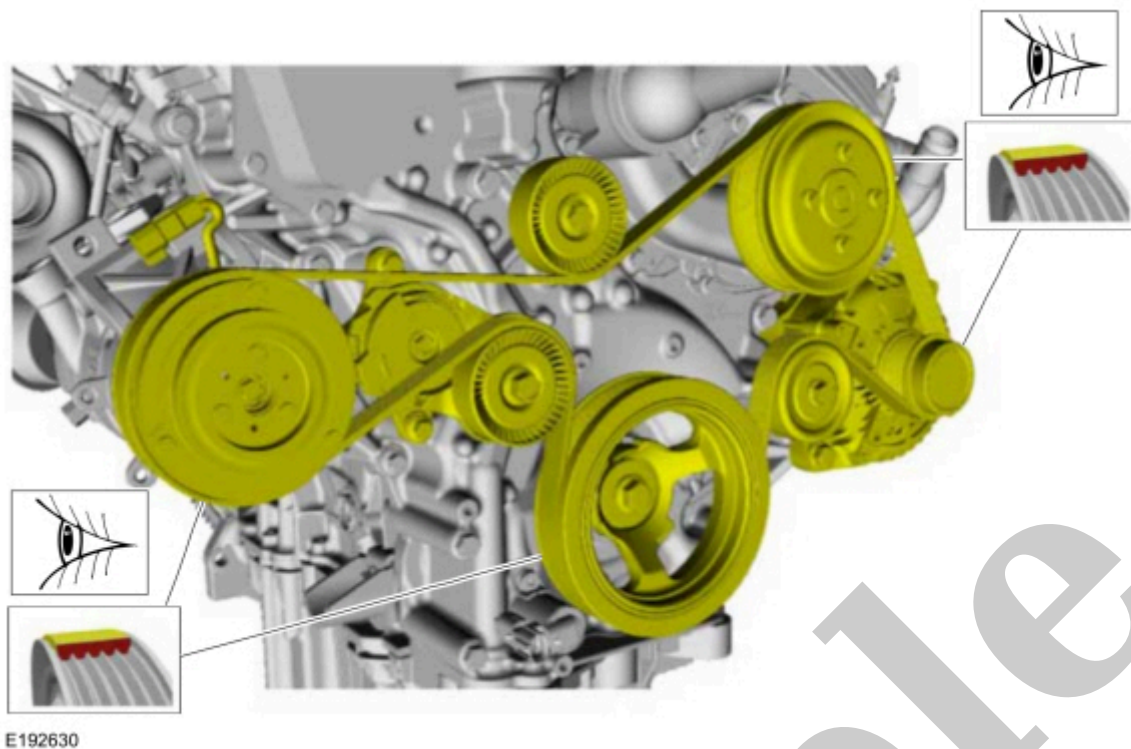
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4. Install and tighten the turbocharger coolant supply tube bolt.

***Torque*** : 18 lb.ft (24 Nm)



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#### 7. **NOTE**

Frame removed for clarity.

Connect the electrical connectors and attach the wiring harness retainer.