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2000 FORD Windstar OEM Service and Repair Workshop Manual

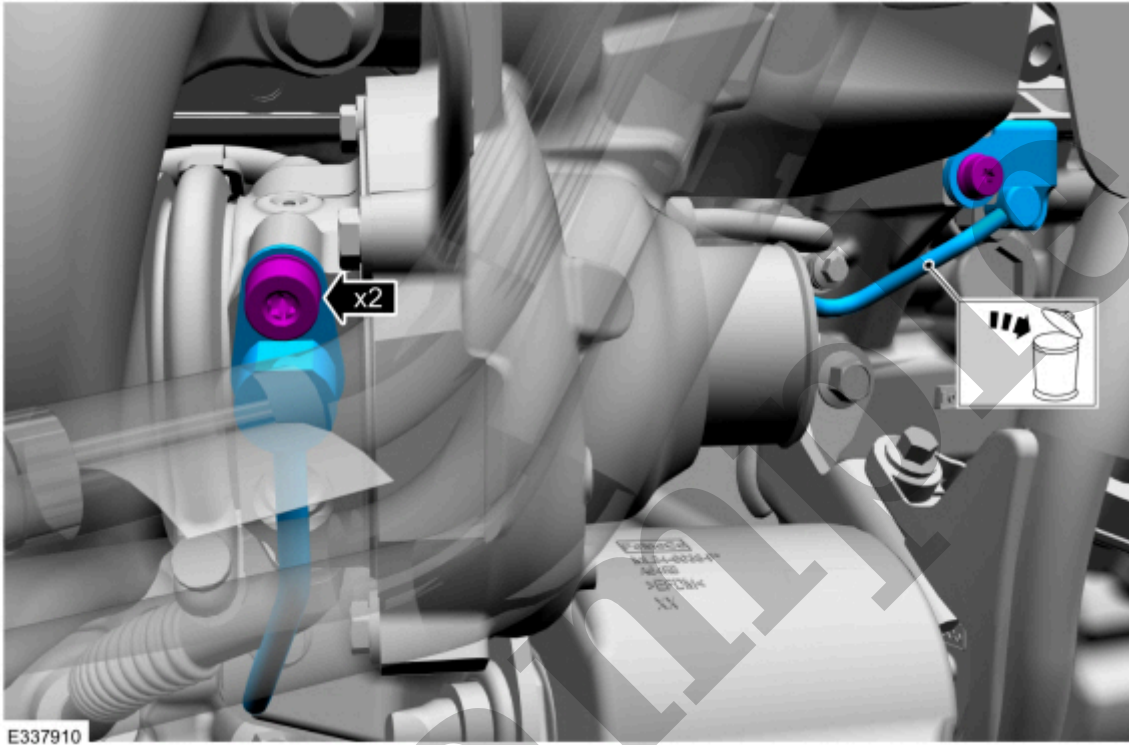
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Refer to: [Fender Splash Shield](#)(501-02 Front End Body Panels, Removal and Installation).

4. Remove the charge air cooler intake pipe - right side.

Refer to: [Charge Air Cooler \(CAC\) Intake Pipe](#)(303-12D Intake Air Distribution and Filtering - 3.5L V6 PowerBoost (CN), Removal and Installation).

5. Remove the turbocharger oil supply tube bolts, then remove and discard the turbocharger oil supply tube.

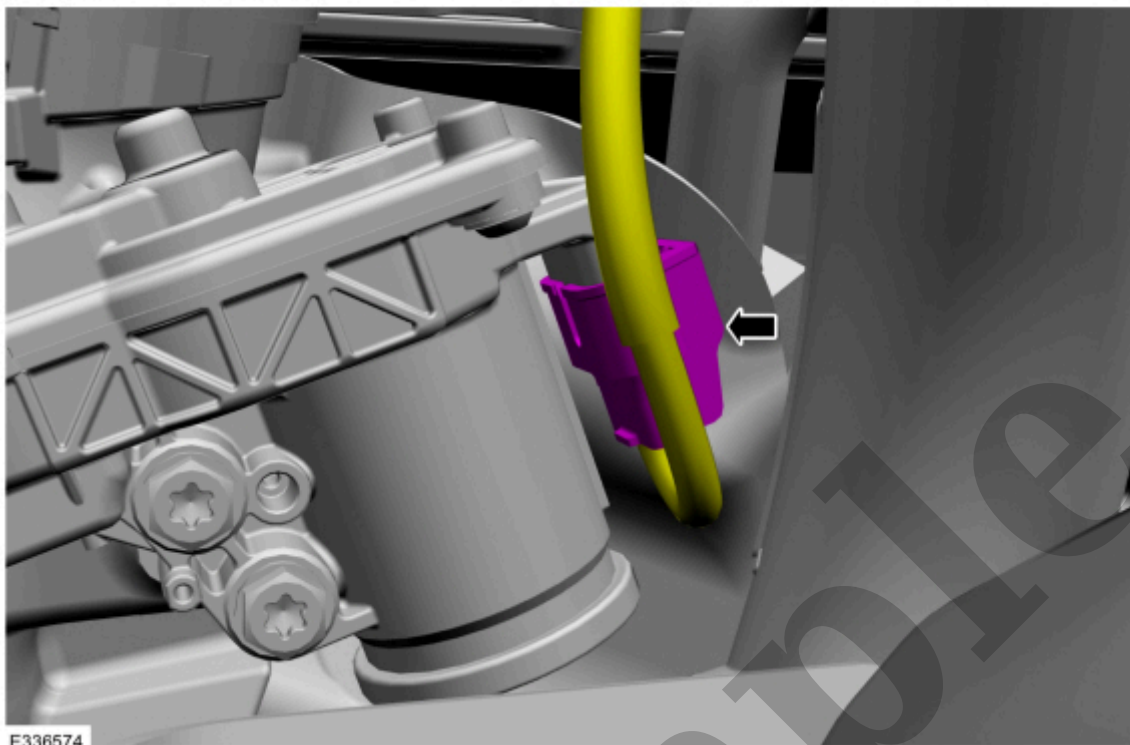


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6. Remove and discard the turbocharger fitting and oil filter assembly.

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9. Disconnect the turbocharger wastegate control actuator electrical connector.



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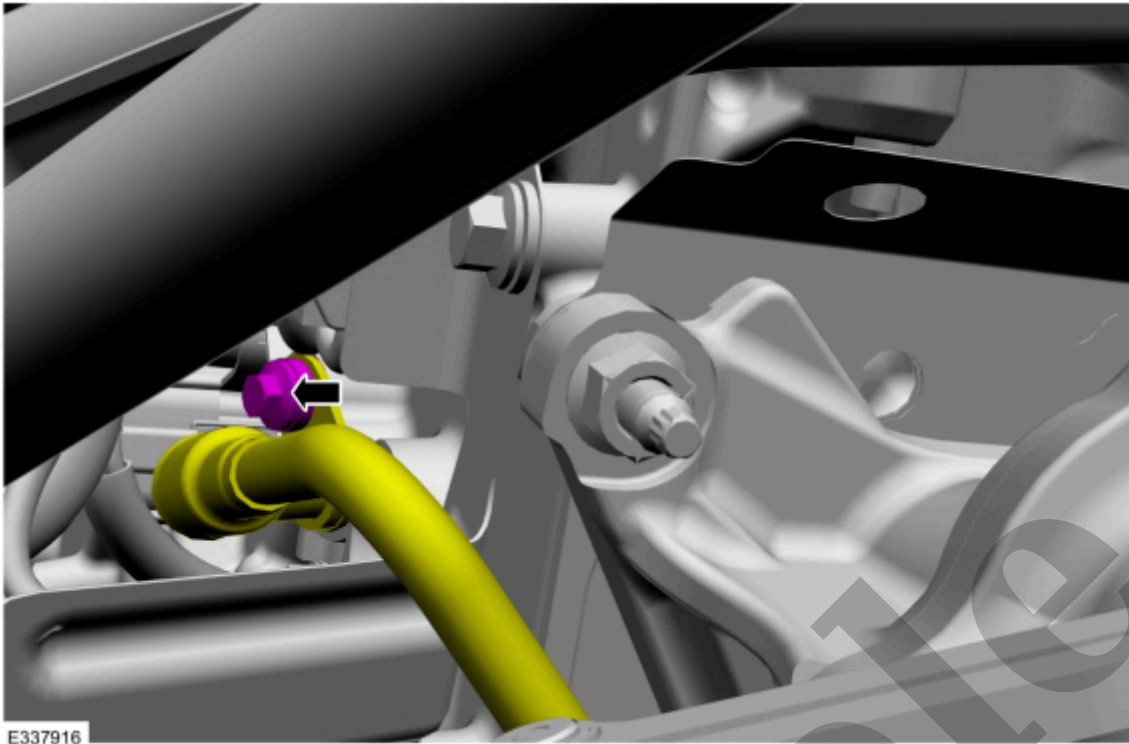
10. Remove the catalytic converter RH.

Refer to: [Catalytic Converter RH\(309-00D Exhaust System - 3.5L V6 PowerBoost \(CN\), Removal and Installation\)](#).

11. **NOTICE**

If the 2 piece turbocharger cooling tubes are separated or the rubber gasket is leaking, then the rubber gasket must be replaced.

Remove the turbocharger coolant supply tube bolt, then disconnect the turbocharger coolant supply tube from the engine

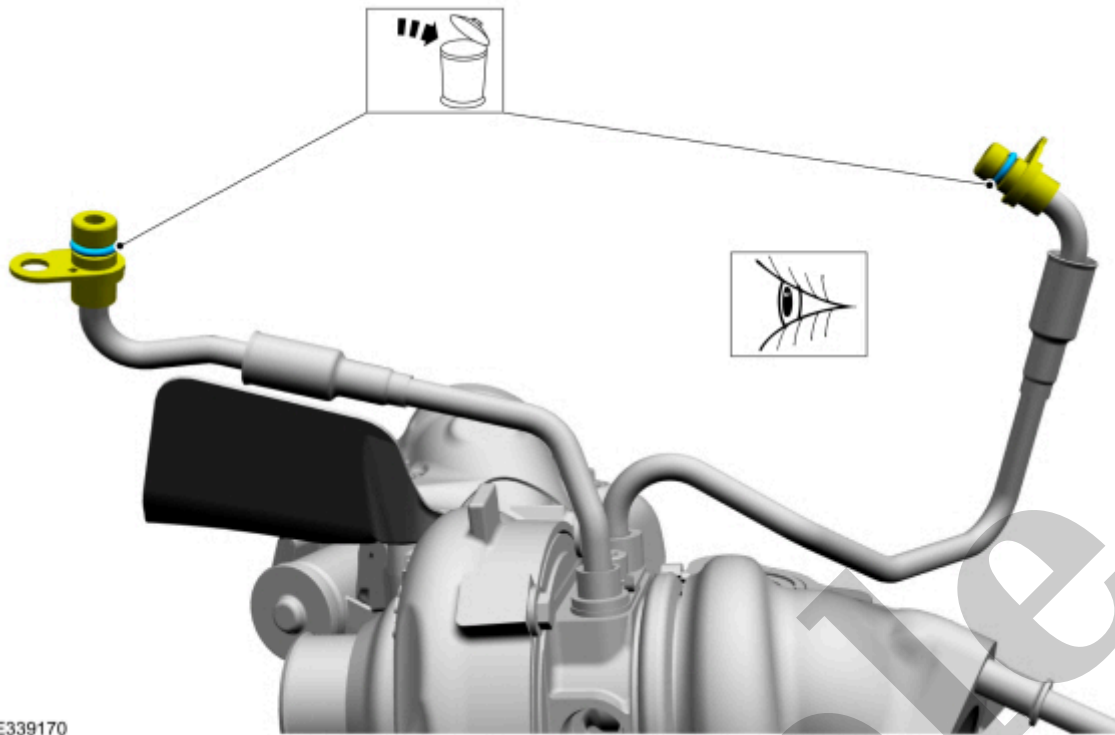


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13. **NOTE**

Remove the coolant tubes with the turbocharger. If the 2 piece turbocharger cooling tubes are separated, then the rubber gasket must be replaced.

Remove and discard the turbocharger retainers, then remove the turbocharger.



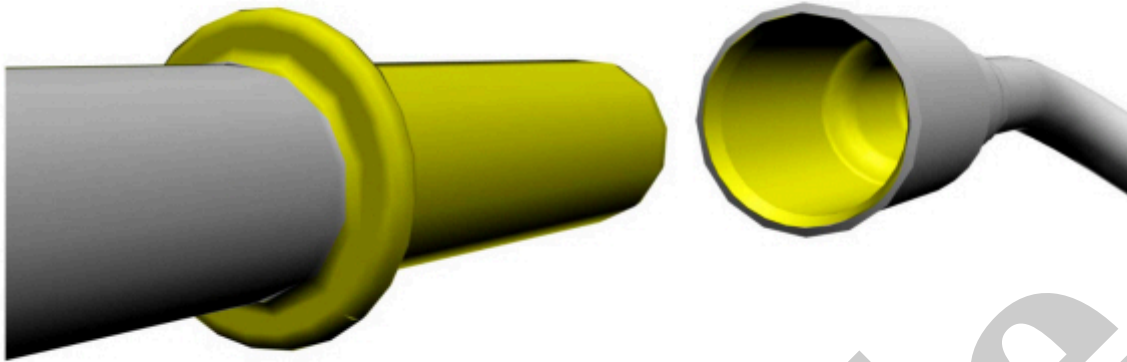
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15. **NOTICE**

If the 2 piece turbocharger cooling tubes were separated or the rubber gasket is leaking, then the rubber gasket must be replaced.

If needed, then remove and discard the rubber gasket.



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17. If needed, remove the turbocharger coolant tubes from the turbocharger.

Refer to: [Turbocharger Coolant Return Tube RH](#)(303-04H Fuel Charging and Controls - Turbocharger - 3.5L V6 PowerBoost (CN), Removal and Installation).

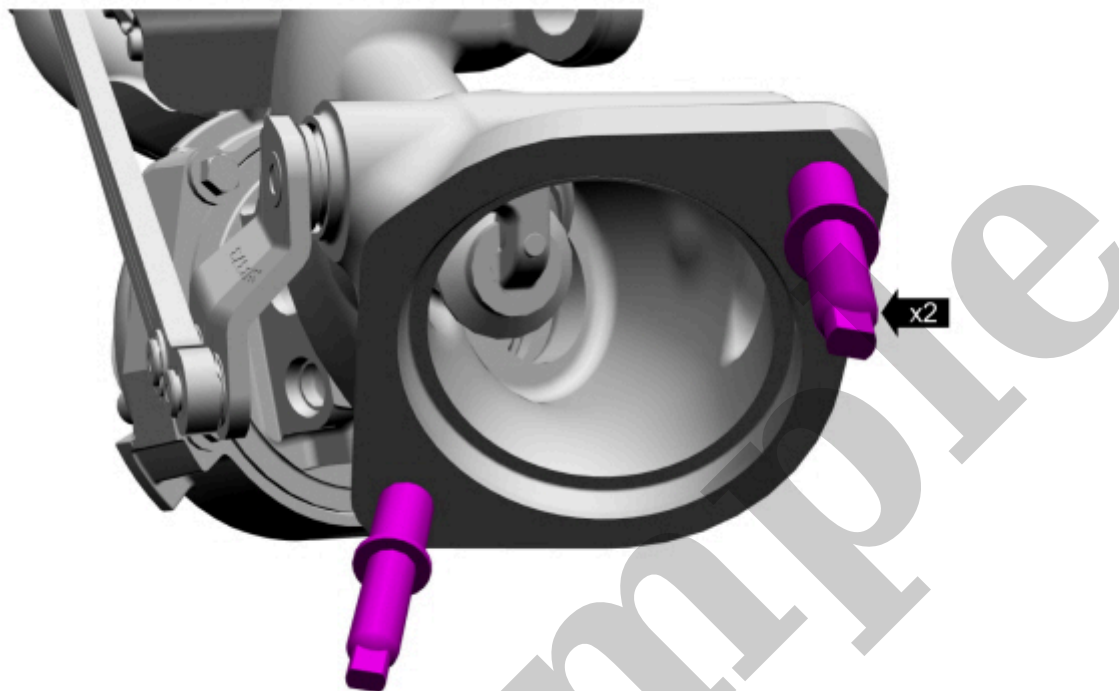
Refer to: [Turbocharger Coolant Supply Tube RH](#)(303-04H Fuel Charging and Controls - Turbocharger - 3.5L V6 PowerBoost (CN), Removal and Installation).

18. Remove and discard the turbocharger gasket.

1. Make sure that the mating faces are clean and free of foreign material.
2. If removed, apply high temperature nickel anti-seize lubricant to the studbolt threads, then install and tighten the studbolts.

Material : Motorcraft® High Temperature Nickel Anti-Seize Lubricant / XL-2

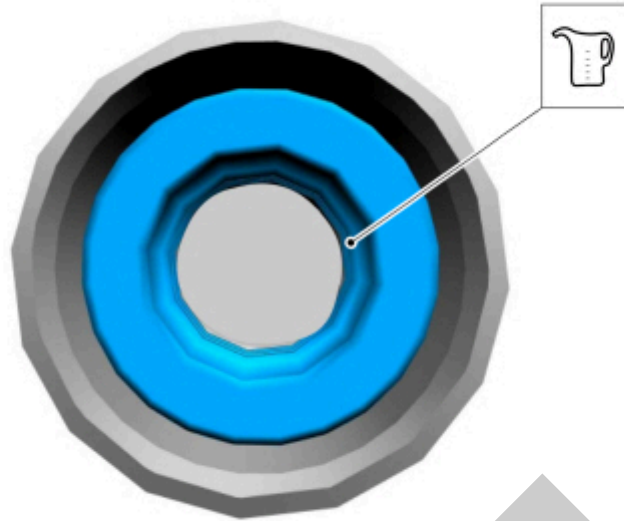
Torque : 30 lb.ft (40 Nm)



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3. Install the new turbocharger gasket by pressing the gasket into the turbocharger flange groove evenly until at least 50% of the gasket is within the groove.

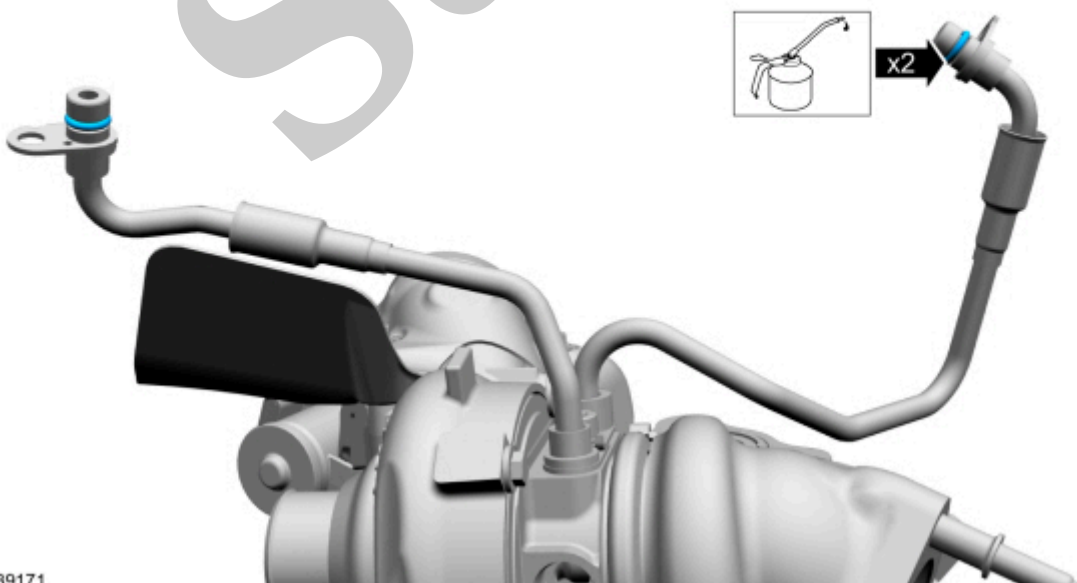


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6. Install the new turbocharger coolant tube O-ring seals. Lubricate the new O-ring seal with clean engine coolant.

Refer to: [Specifications](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), Specifications).



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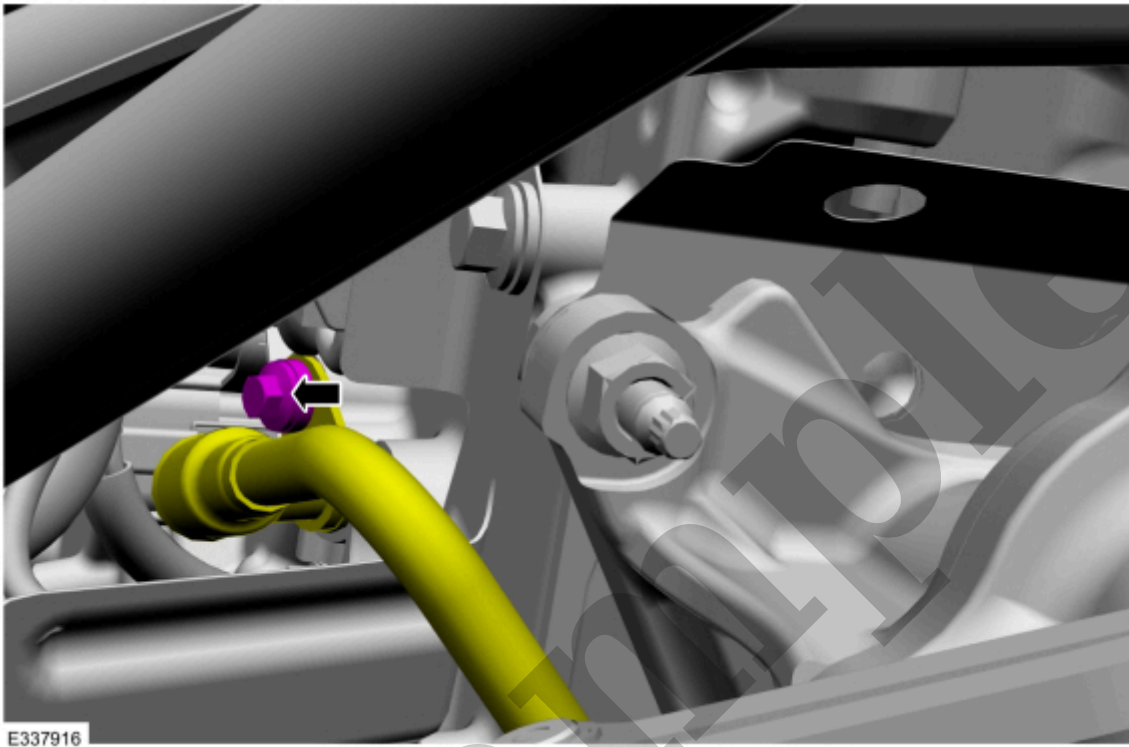
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8. Install and tighten the turbocharger coolant return tube bolt.

Torque :

Stage 1: Tighten to. : 89 lb.in (10 Nm)

Stage 2: Tighten an additional 30 degrees or tighten to 16 Nm, whichever comes first. : 30°



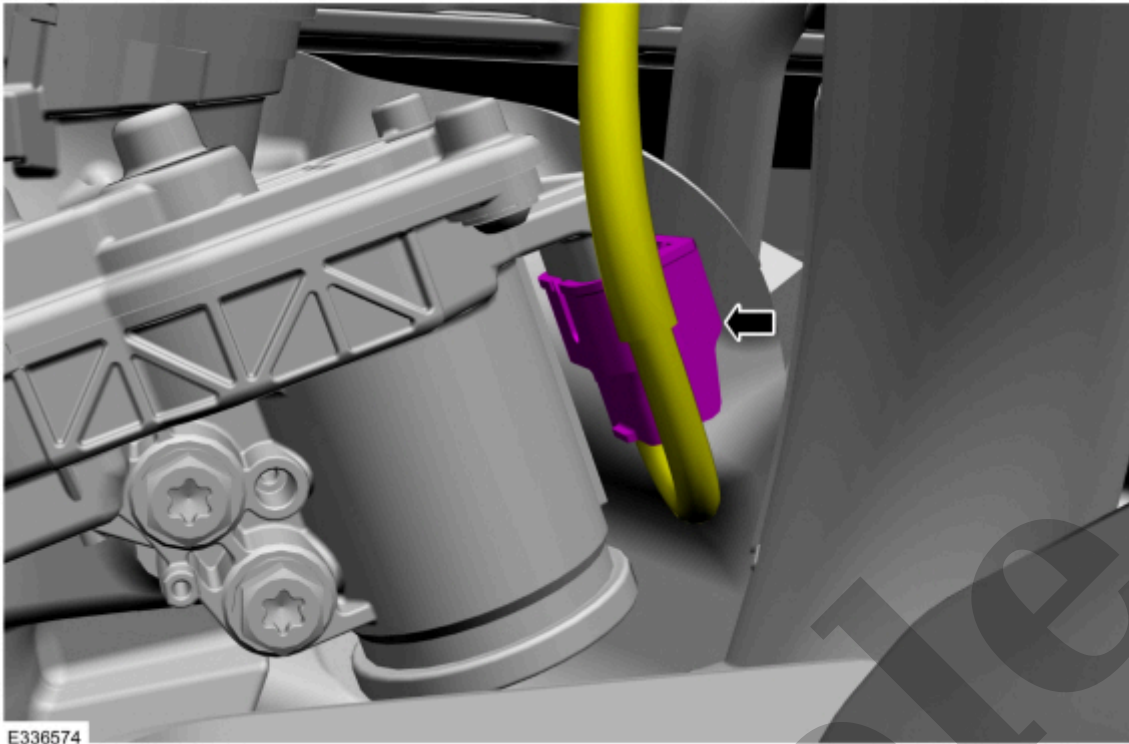
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9. Install and tighten the turbocharger coolant supply tube bolt.

Torque :

Stage 1: Tighten to : 89 lb.in (10 Nm)

Stage 2: Tighten an additional : 30°

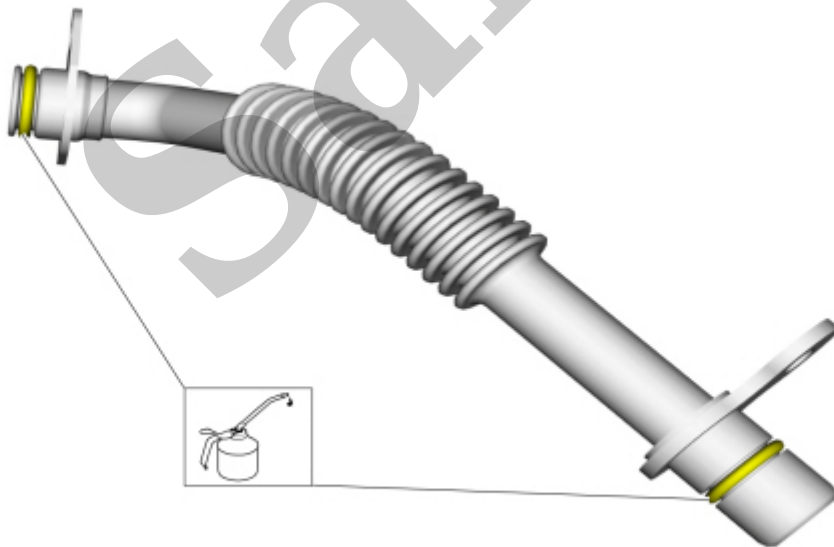


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12. Lubricate the new turbocharger oil return tube O-ring seals with clean engine oil.

Refer to: [Specifications\(303-01D Engine - 3.5L V6 PowerBoost \(CN\), Specifications\).](#)



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