

# Your Ultimate Source for OEM Repair Manuals

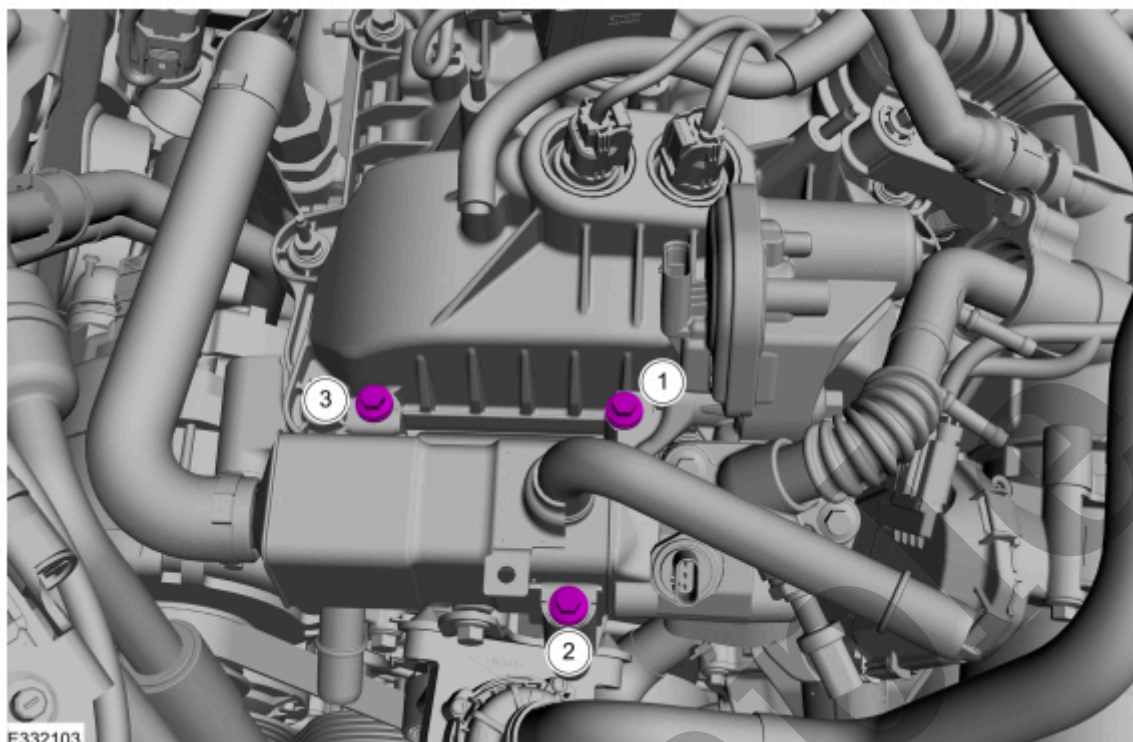
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## 2021 Ford E-450 Super Duty Service and Repair Manual

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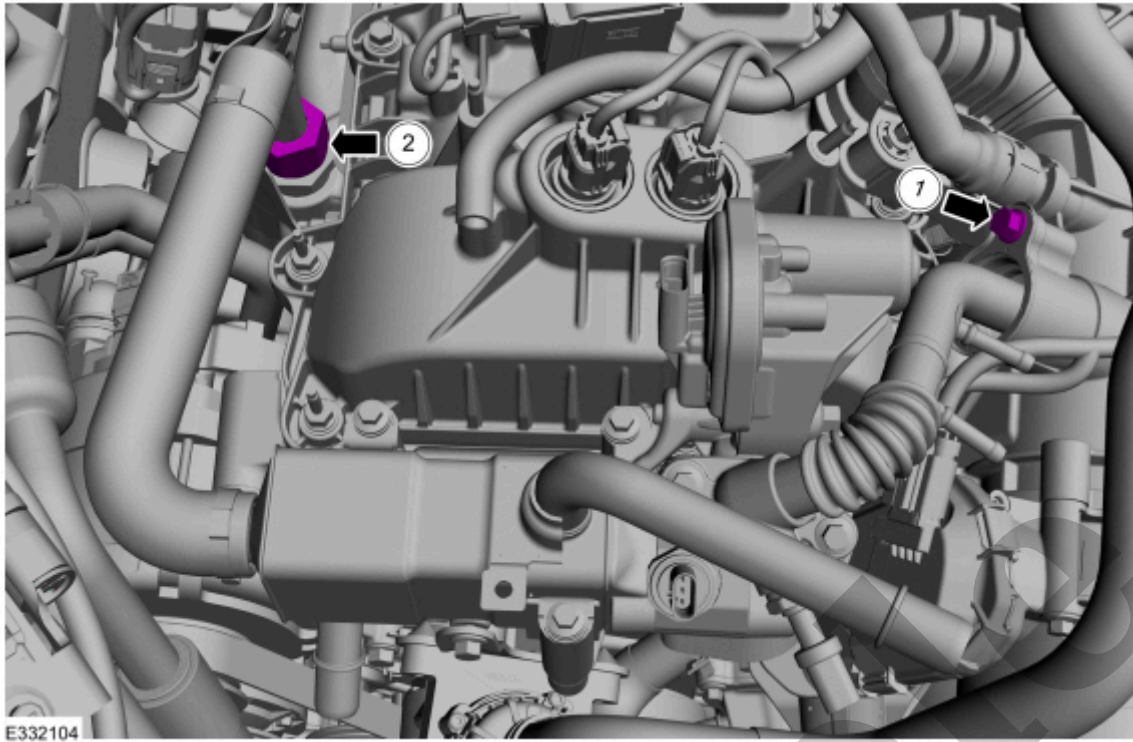
5. Install the EGR (exhaust gas recirculation) cooler fasteners and hand tighten at this stage.



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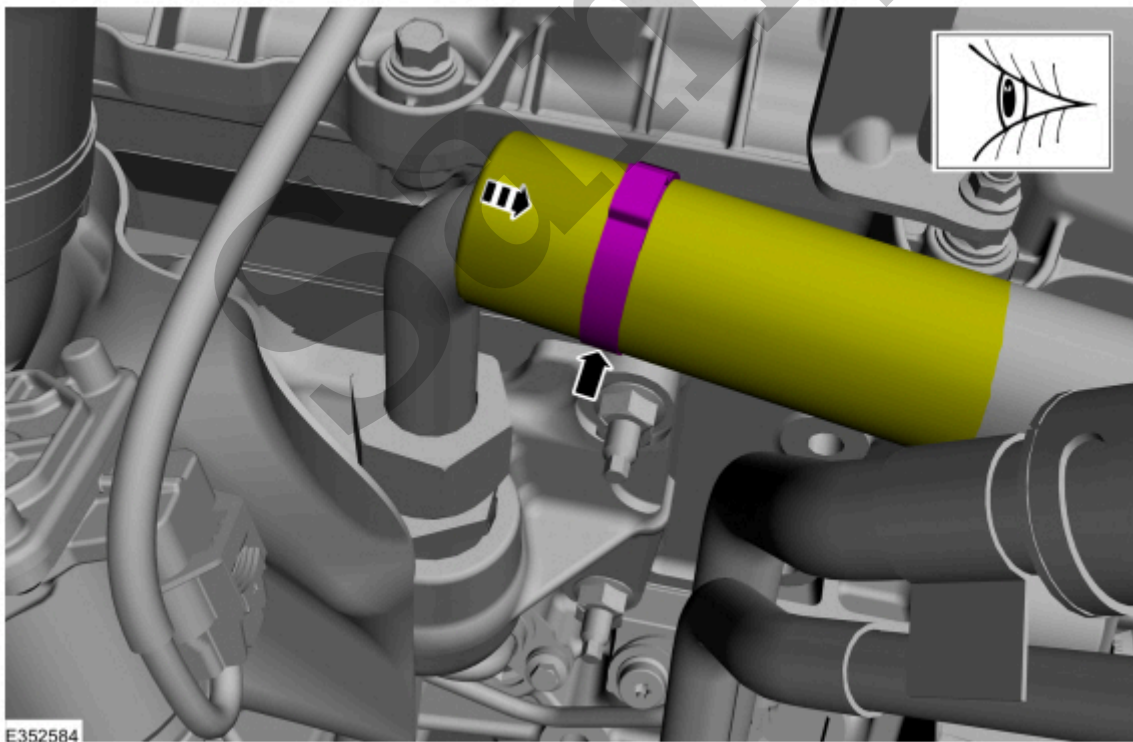
6. Tighten the EGR (exhaust gas recirculation) cooler fasteners as per the sequence.

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



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8. Pull back heat sleeve to visually inspect hot tube for any twisting.



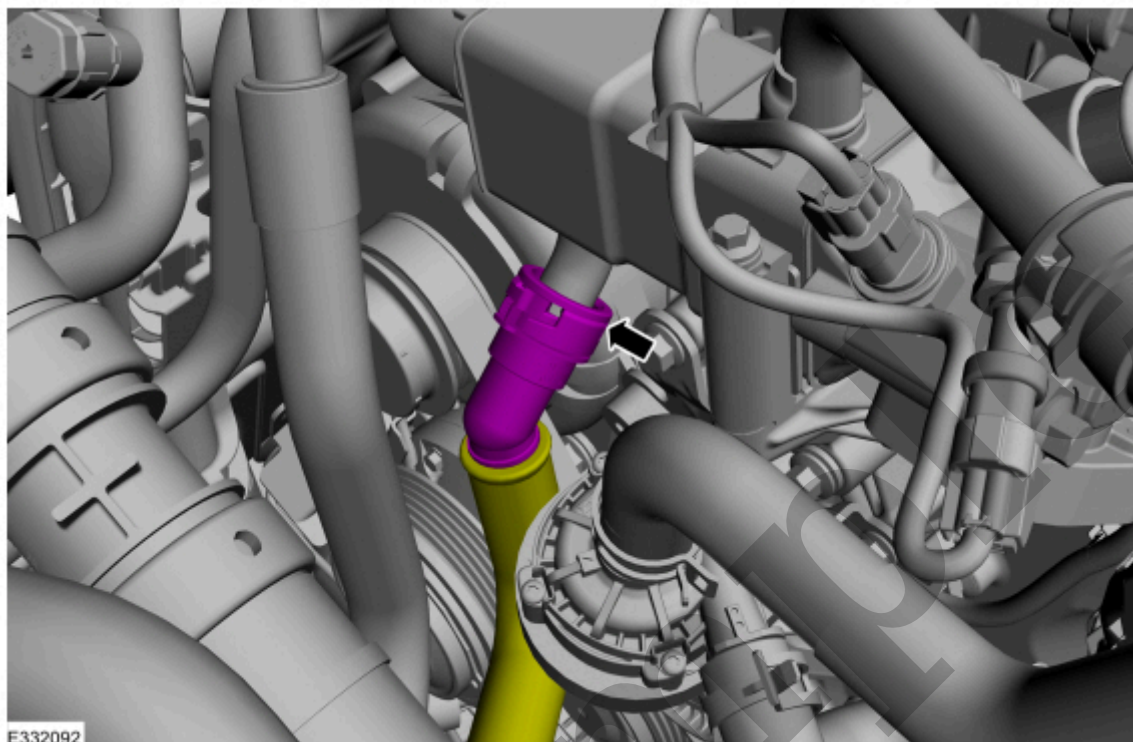
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9. Connect the differential pressure sensor hoses.

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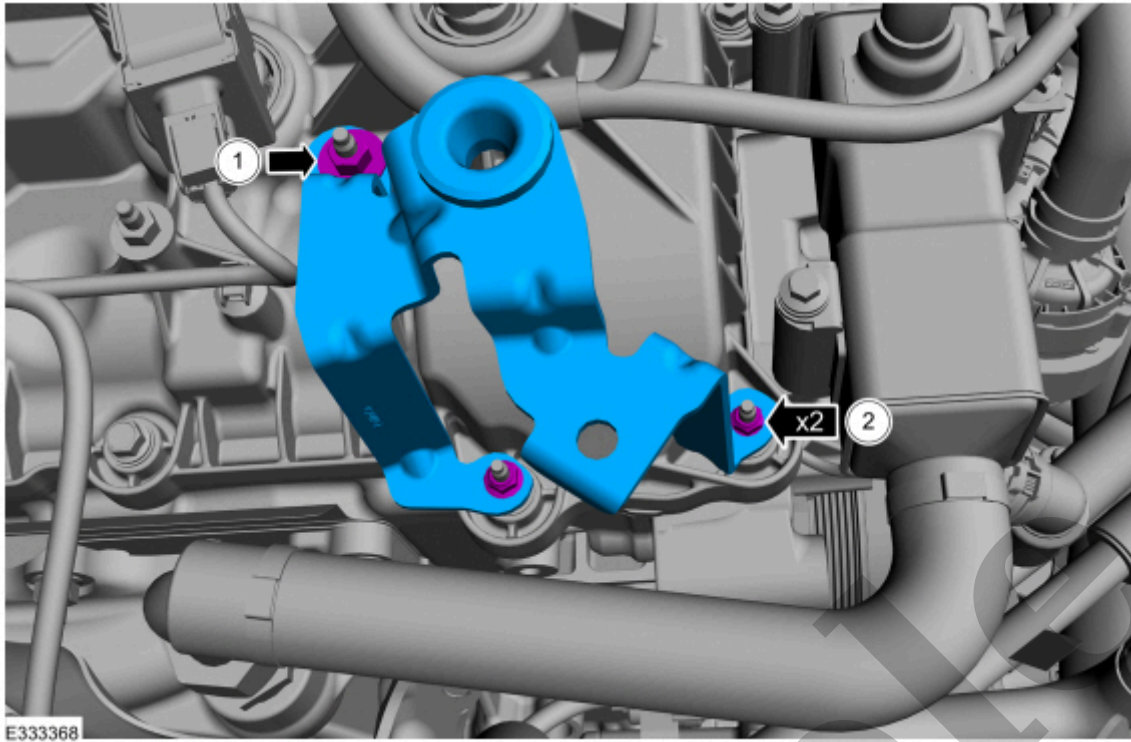
11. Connect the lower coolant hose to the EGR (exhaust gas recirculation) cooler assembly.

Refer to: [Quick Release Coupling](#)(310-00D Fuel System - General Information - 3.5L V6 PowerBoost (CN), General Procedures).



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

12. Connect the electrical connectors and wiring harness retainer.



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14. Install the RH (right-hand) side CAC (charge air cooler) intake pipe.

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

15. Install the RH (right-hand) side air cleaner outlet pipe.

Refer to: [Air Cleaner Outlet Pipe RH](#)(303-12D Intake Air Distribution and Filtering - 3.5L V6 PowerBoost (CN), Removal and Installation).

16. Refill the cooling system.

Refer to: [Engine Cooling System Draining, Vacuum Filling and Bleeding](#)(303-03D Engine Cooling - 3.5L V6 PowerBoost (CN), General Procedures).

17. Slide the engine appearance cover into the retaining bracket and install the retainers.

**Torque** : 97 lb.in (11 Nm)





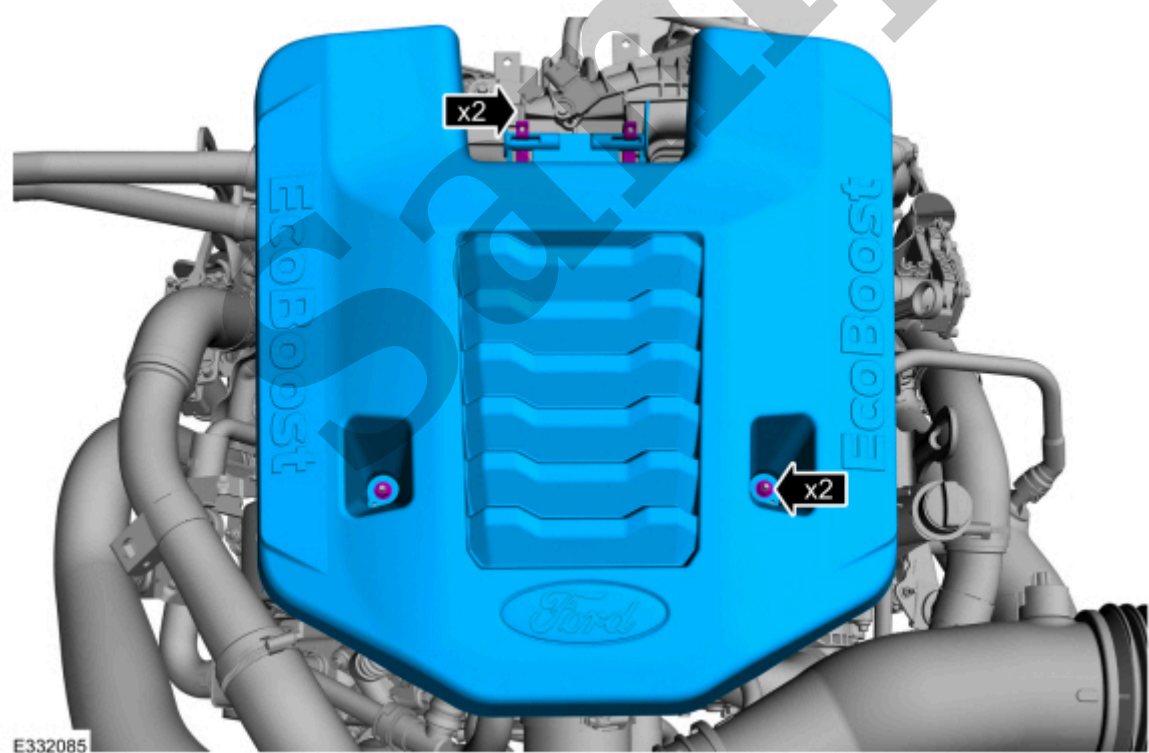
# Exhaust Gas Recirculation (EGR) Outlet Tube

303-08D Engine Emission Control - 3.5L V6 PowerBoost (CN)	2022 F-150
Removal and Installation	Procedure revision date: 08/30/2021

## Exhaust Gas Recirculation (EGR) Outlet Tube

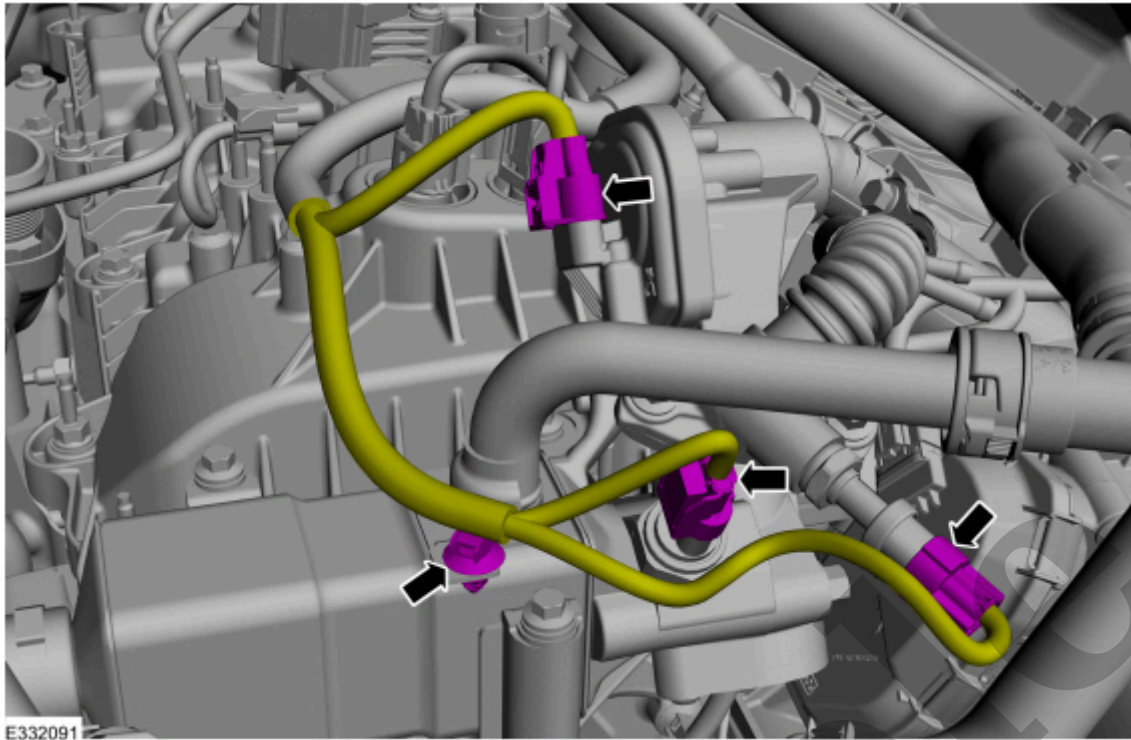
### Removal

1. Remove the engine appearance cover retainers, release the engine appearance cover from the rear retainers and then remove the engine appearance cover.



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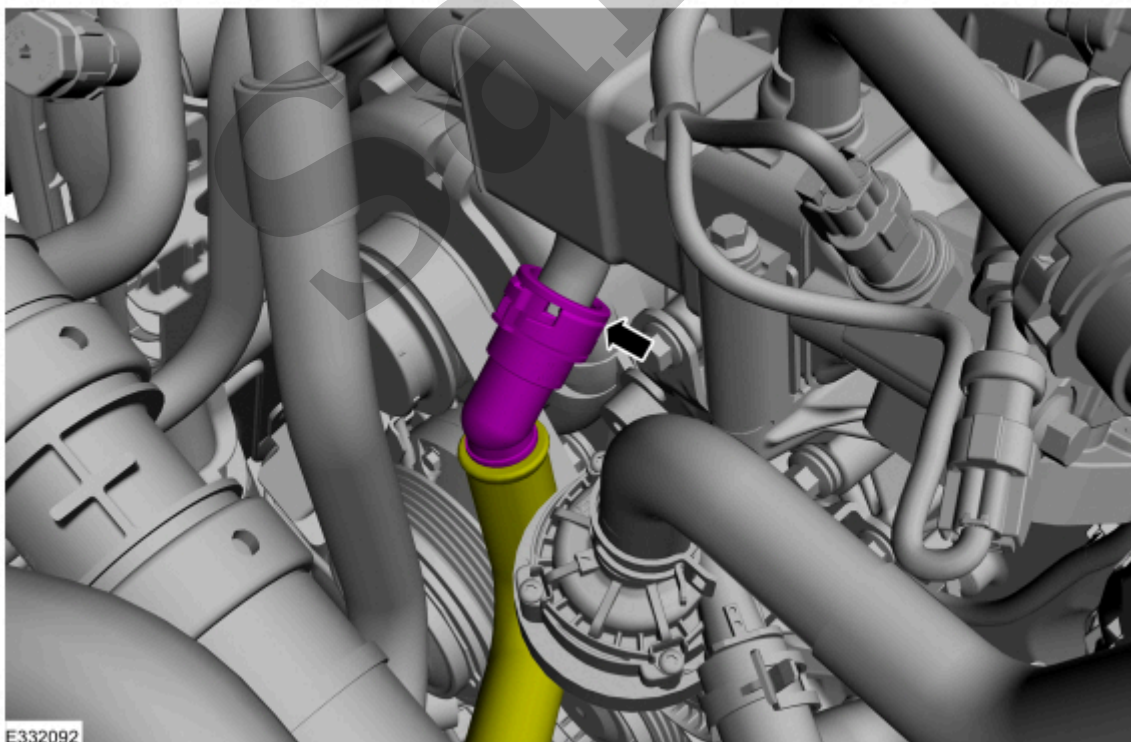
2. Remove the RH (right-hand) side air cleaner outlet pipe.

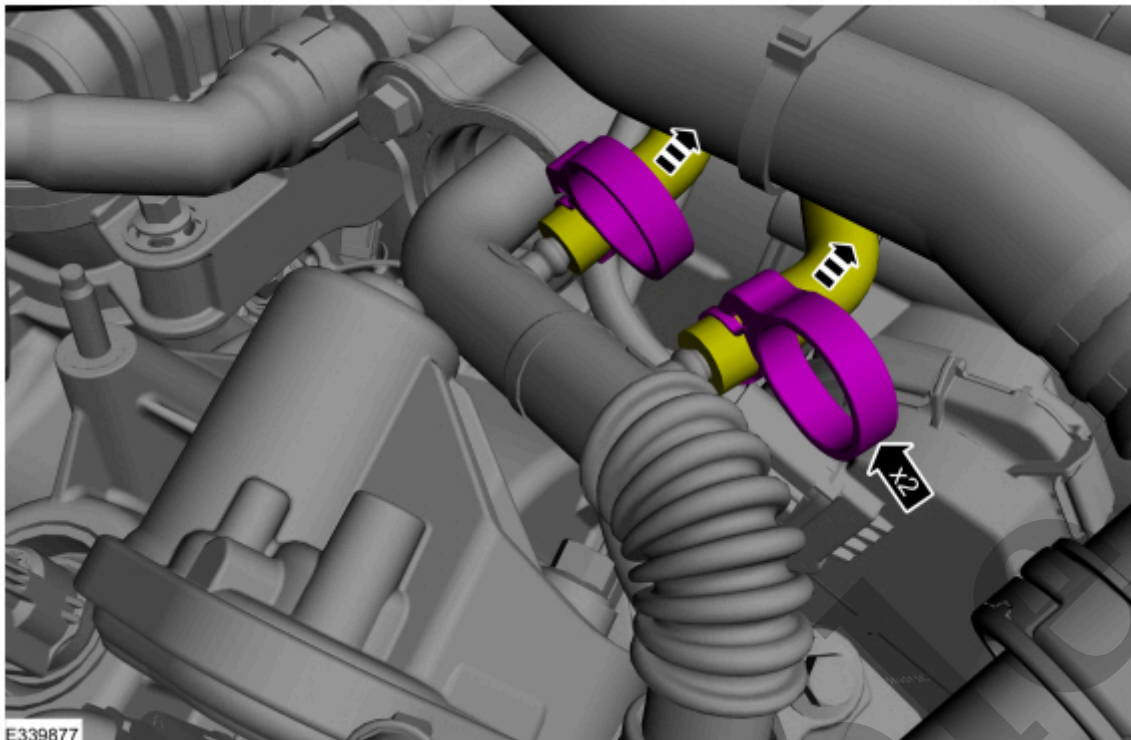


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6. Disconnect the lower coolant hose from the EGR (exhaust gas recirculation) cooler assembly.

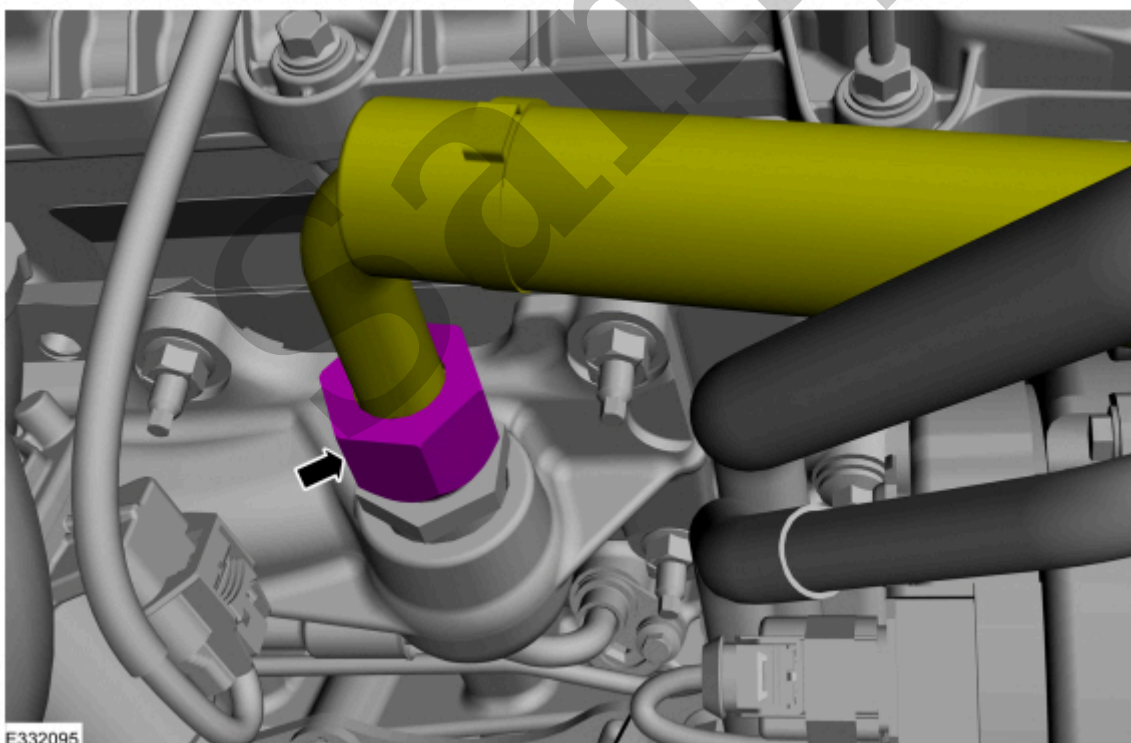
Refer to: [Quick Release Coupling](#)(310-00D Fuel System - General Information - 3.5L V6 PowerBoost (CN), General Procedures).





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9. Remove the EGR (exhaust gas recirculation) inlet tube nut.

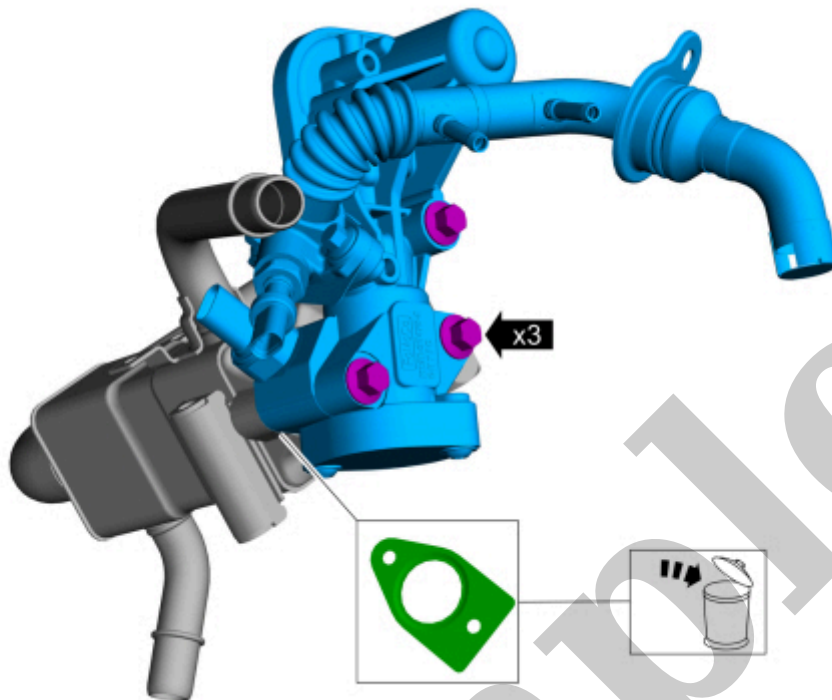


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10. Remove the EGR (exhaust gas recirculation) assembly.



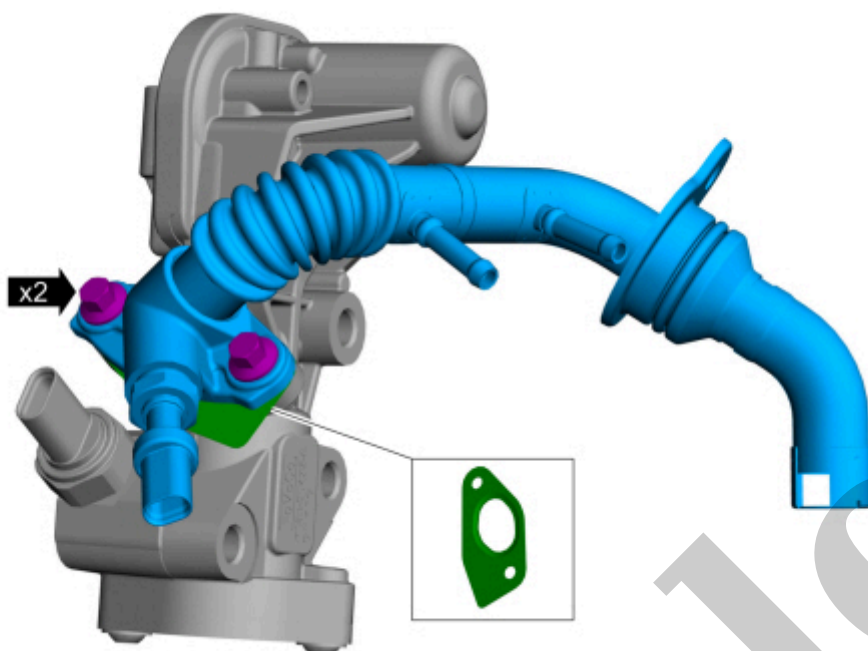
12. • Remove the bolts and EGR (exhaust gas recirculation) valve assembly.
- Remove and discard the EGR (exhaust gas recirculation) valve gasket.



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13. • Remove the EGR (exhaust gas recirculation) outlet tube retainers and EGR (exhaust gas recirculation) outlet tube.
- Remove and discard the EGR (exhaust gas recirculation) outlet tube gasket.

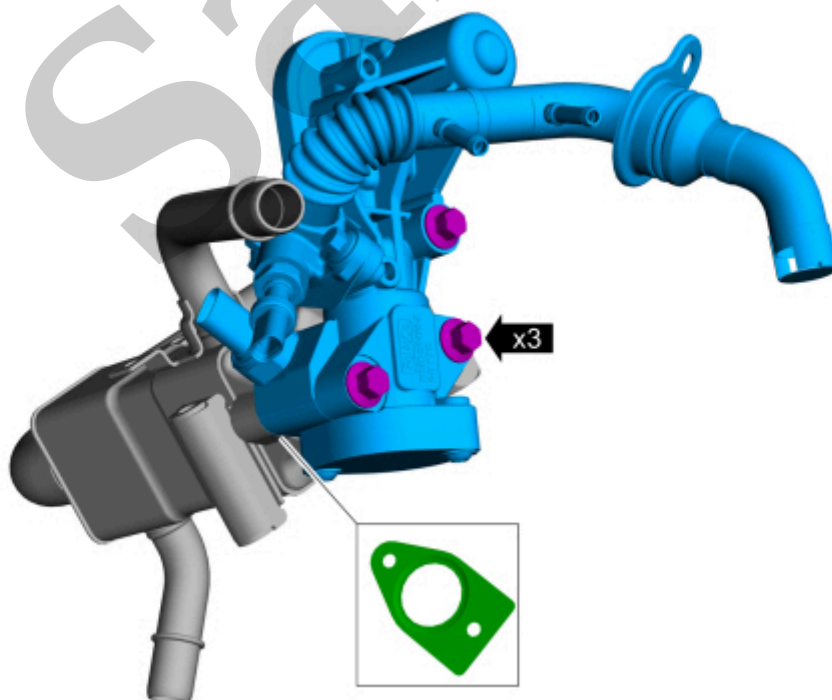


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2.
  - Install the EGR (exhaust gas recirculation) valve gasket.
  - Install the EGR (exhaust gas recirculation) valve assembly.

**Torque** : 22 lb.ft (30 Nm)



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