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## 2013 Ford F-250 Super Duty Service and Repair Manual

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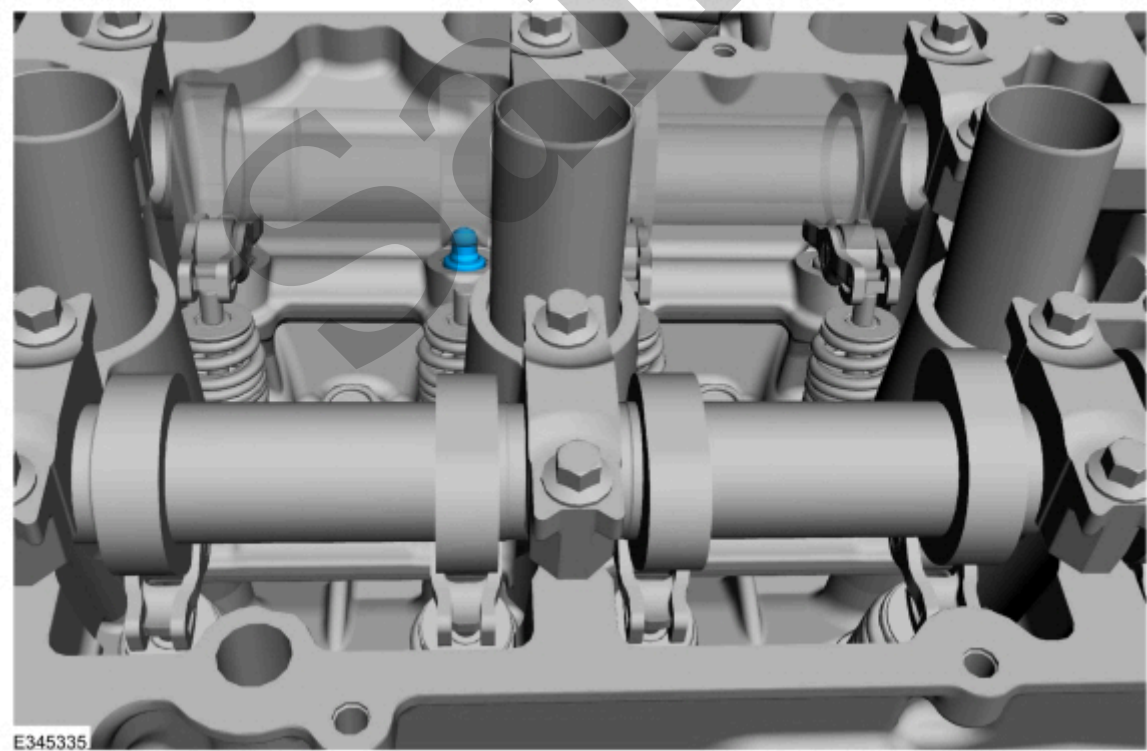
# Hydraulic Lash Adjuster

303-01D Engine - 3.5L V6 PowerBoost (CN)	2022 F-150
Removal and Installation	Procedure revision date: 09/13/2022

## Hydraulic Lash Adjuster

### Removal

- 1. Remove the roller finger follower.  
Refer to: [Rocker Arm](#)(303-01C Engine - 3.5L EcoBoost (BM), Removal and Installation).
- 2. Remove the hydraulic lash adjuster.



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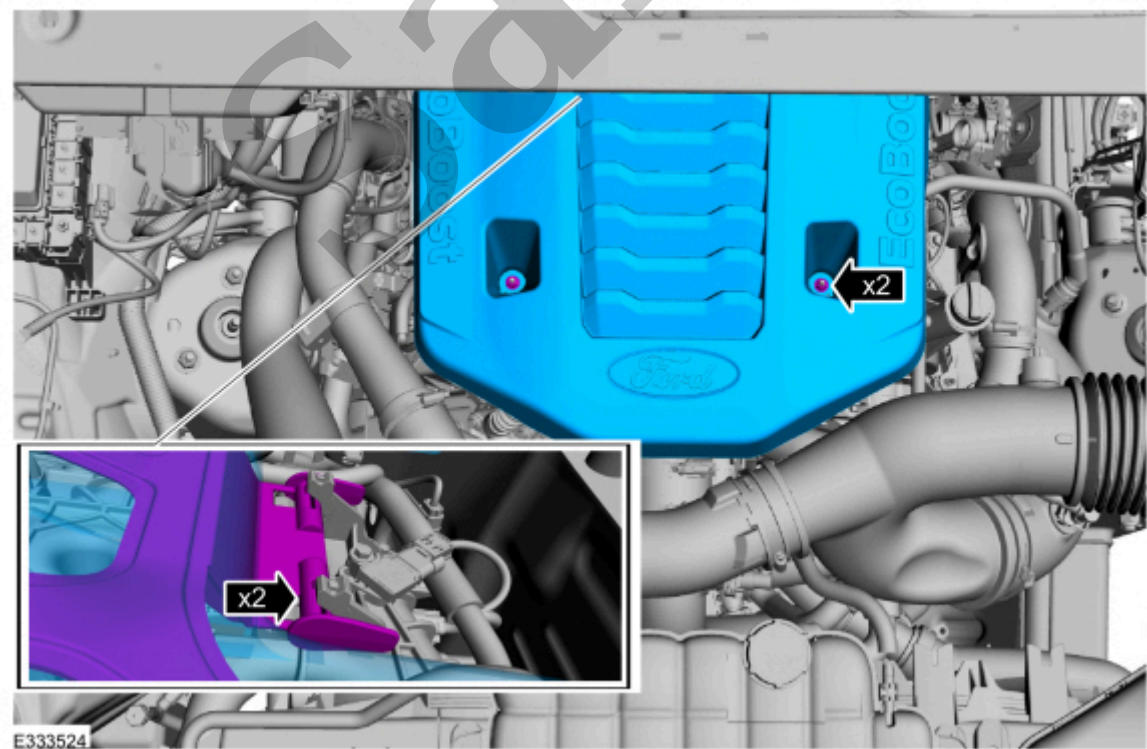
# Intake Manifold

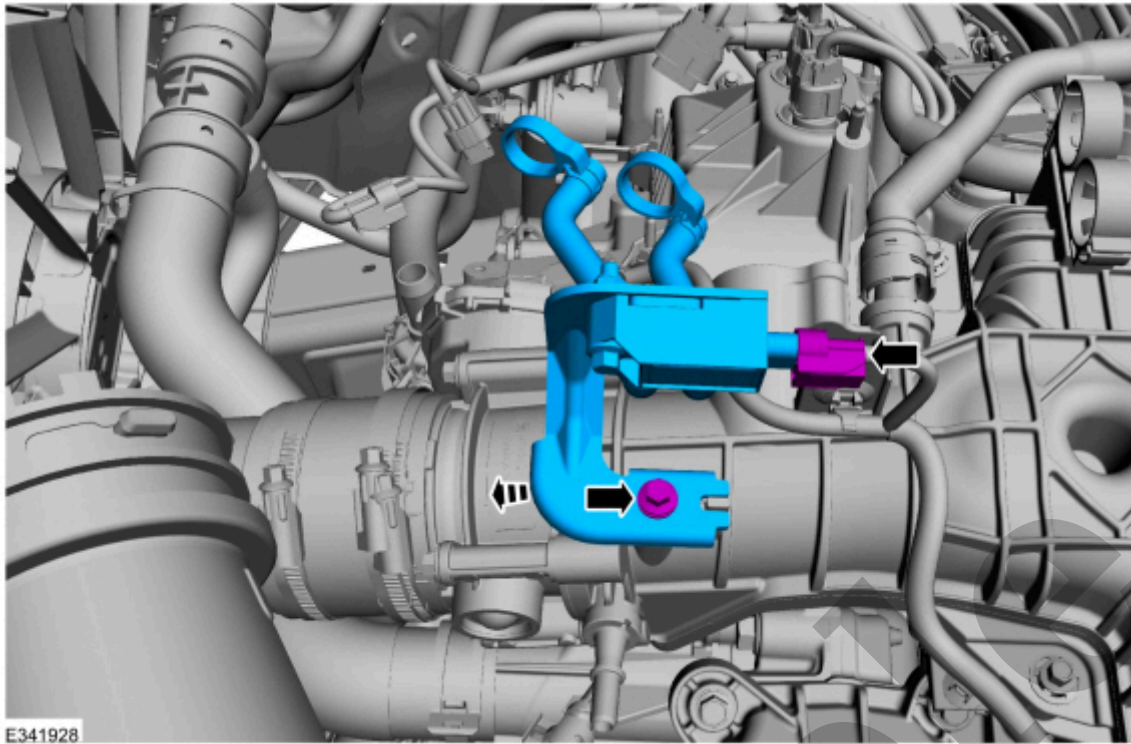
303-01D Engine - 3.5L V6 PowerBoost (CN)	2022 F-150
Removal and Installation	Procedure revision date: 09/8/2022

## Intake Manifold

### Removal

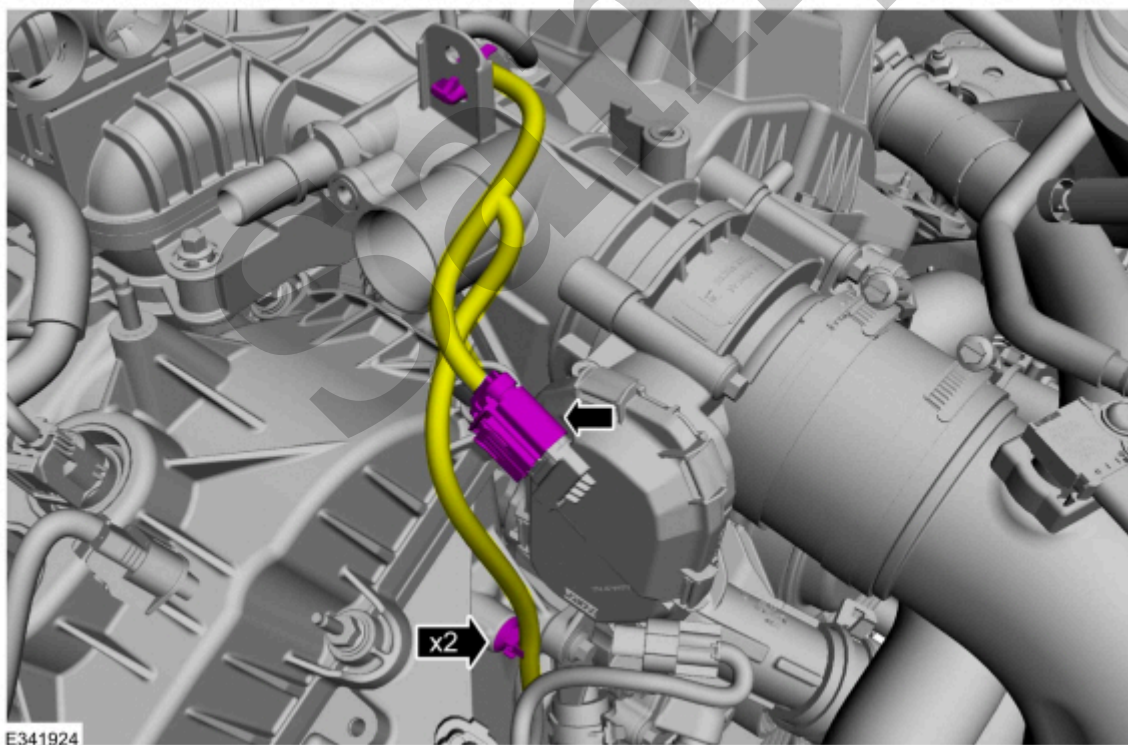
1. Disconnect the battery ground cable.  
Refer to: [Battery Disconnect and Connect](#)(414-01 Battery, Mounting and Cables, General Procedures).
2.
  - Remove the engine appearance cover retainers.
  - Release the engine appearance cover from the rear and remove the engine appearance cover.





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6. Disconnect the throttle body electrical connector and wiring harness retainers.



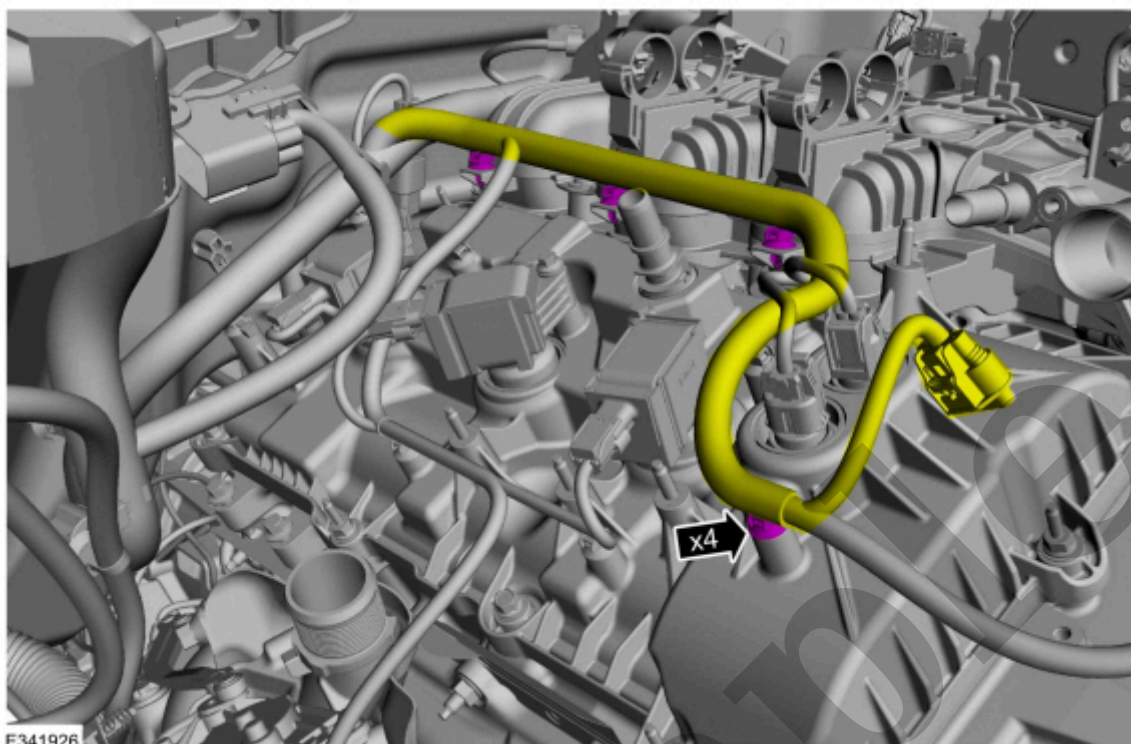
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7. Loosen the clamp and position the throttle body intake pipe aside.



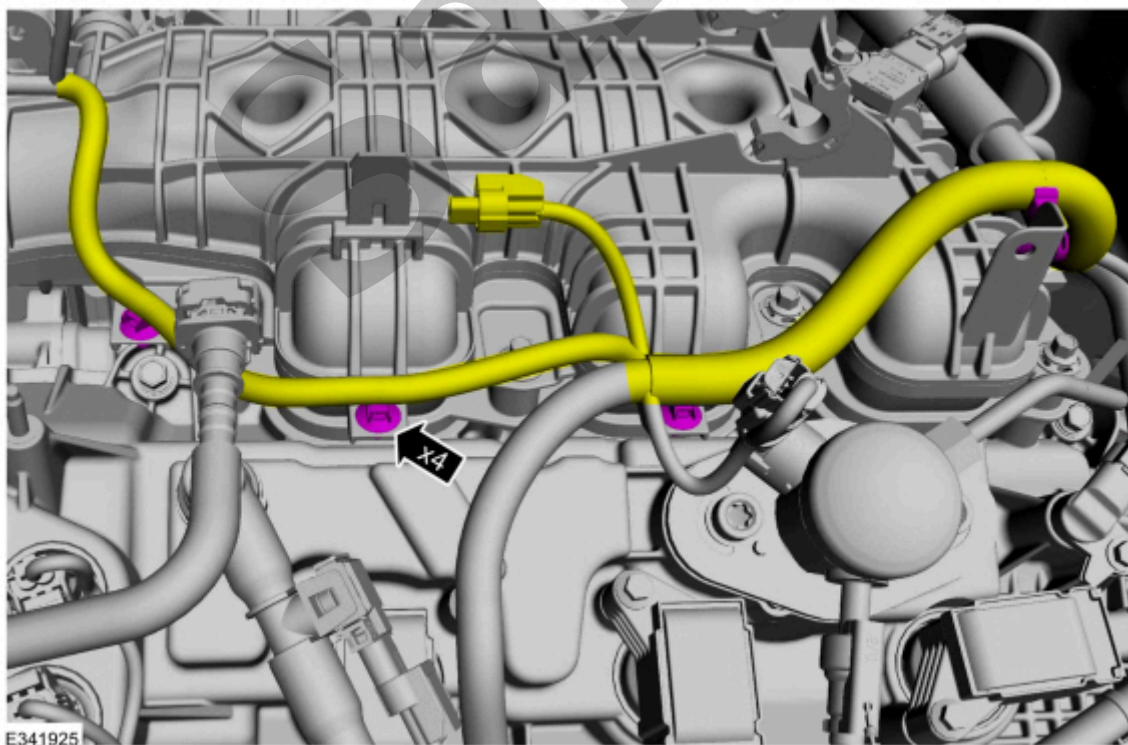
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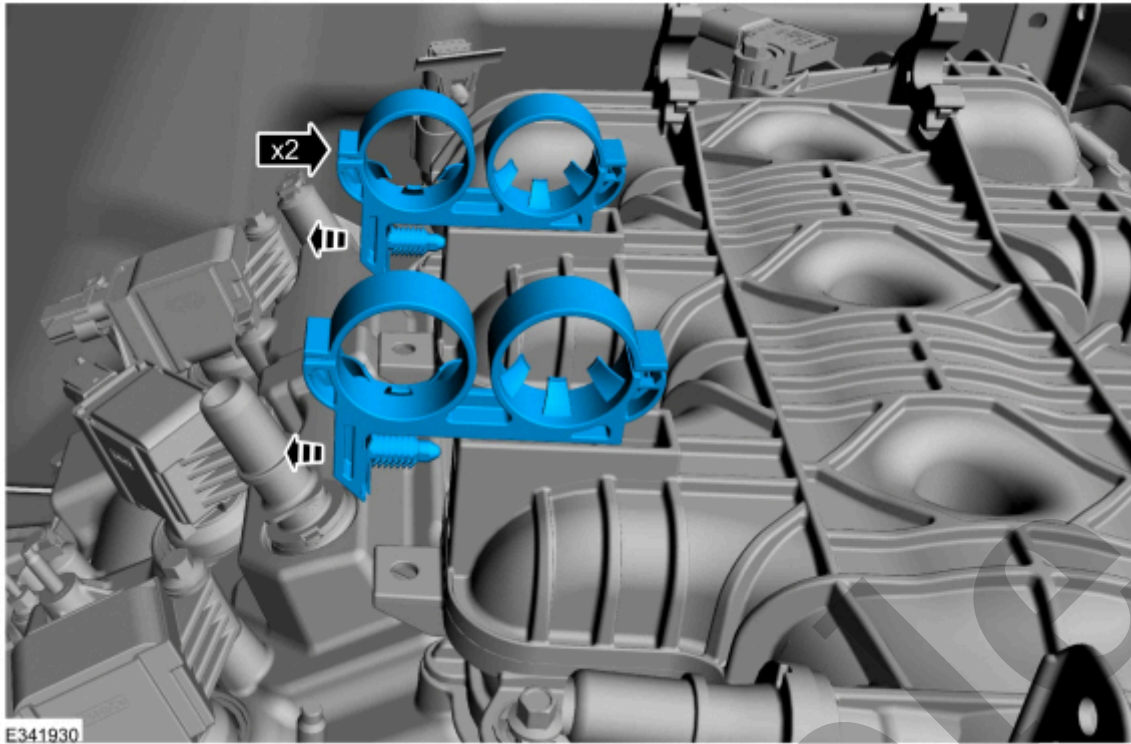
9. Disconnect the wire harness retainers.



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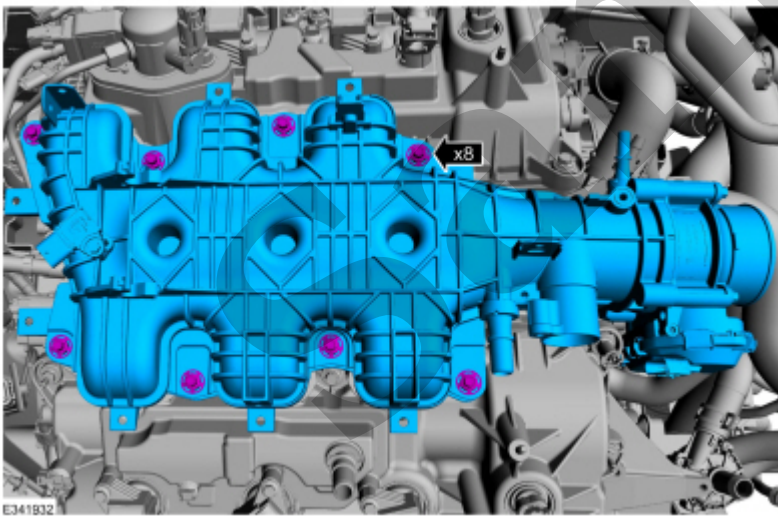
10. Disconnect the wire harness retainers from the intake manifold.





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

13. Remove the bolts and the intake manifold.

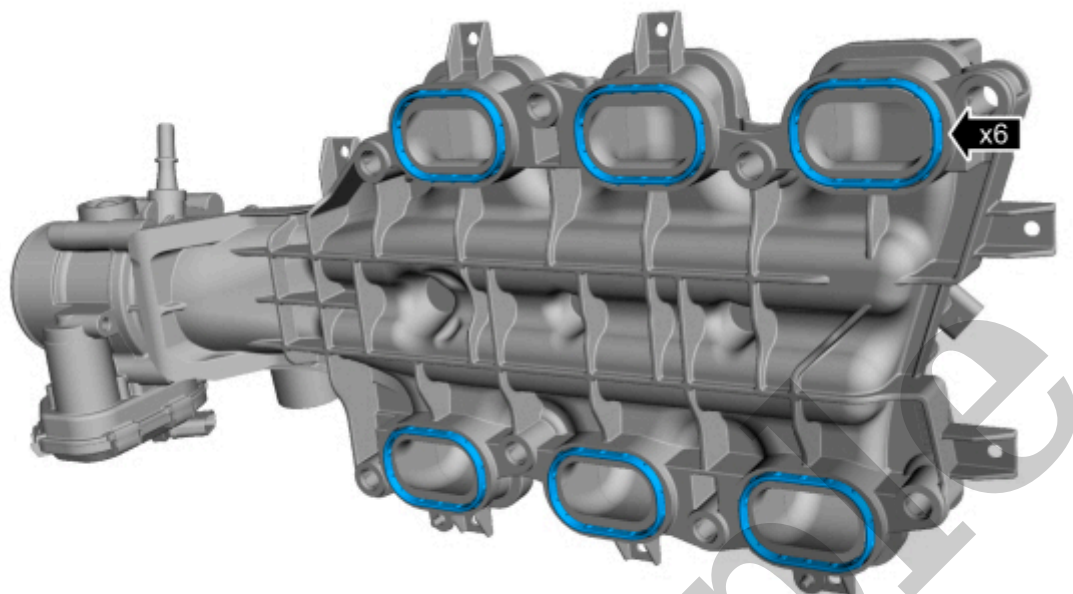


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14. Inspect the gaskets for nicks, cuts and abrasions. If these conditions are not present, the gasket may be re-used.

## Installation

1. If gaskets were discarded install new intake manifold gaskets.



E336413

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### 2. NOTICE

If the engine is repaired or replaced because of upper engine failure, typically including valve or piston damage, check the intake manifold for metal debris. If metal debris is found, install a new intake manifold. Failure to follow these instructions can result in engine damage.

Install the intake manifold and the bolts.

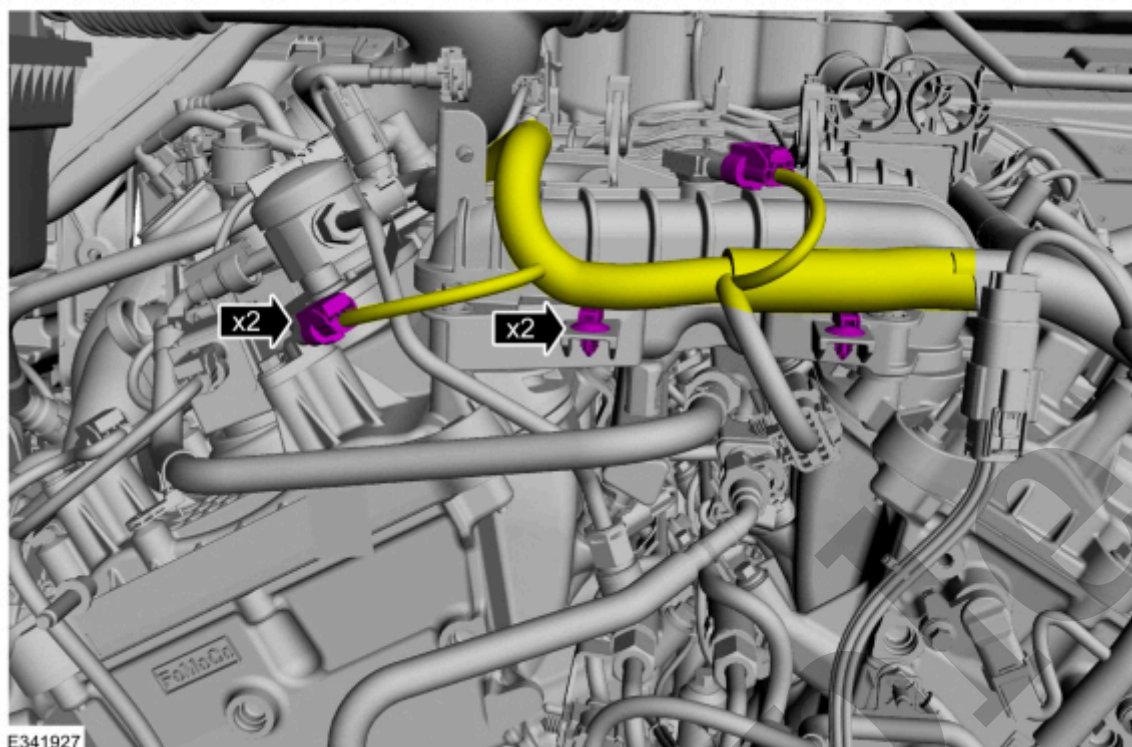
#### ***Torque :***

Stage 1: 89 lb.in (10 Nm)

Stage 2: 45°

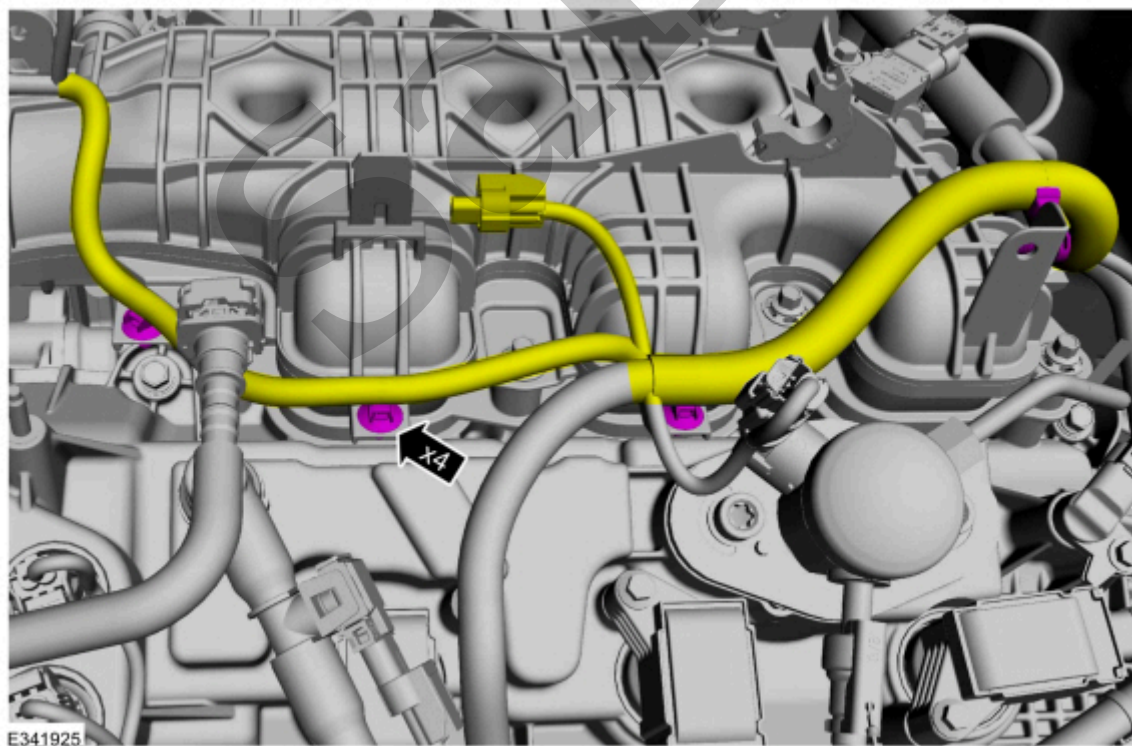


4. Install the wire harness retainers to the intake manifold and connect the electrical connectors.



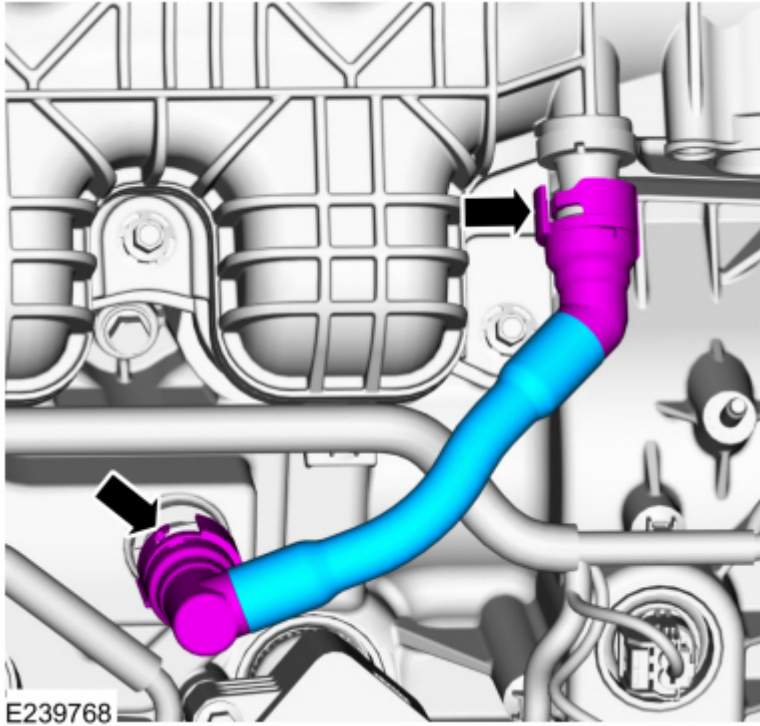
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5. Attach the wire harness retainers to the intake manifold.



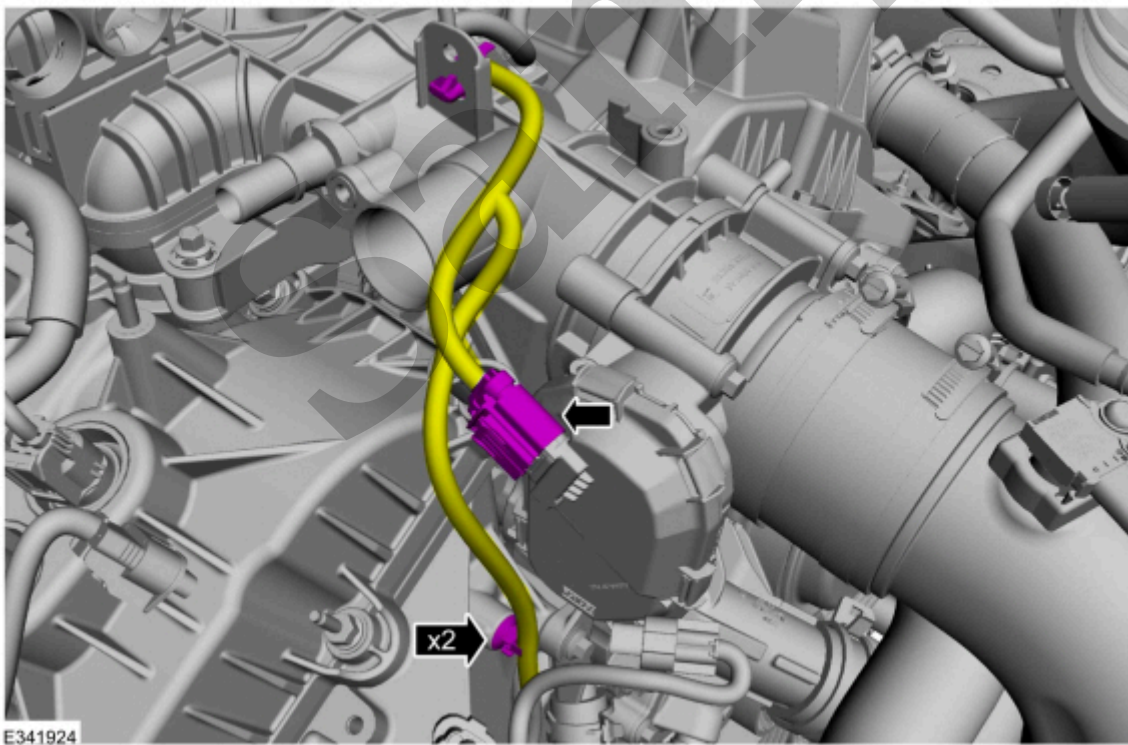
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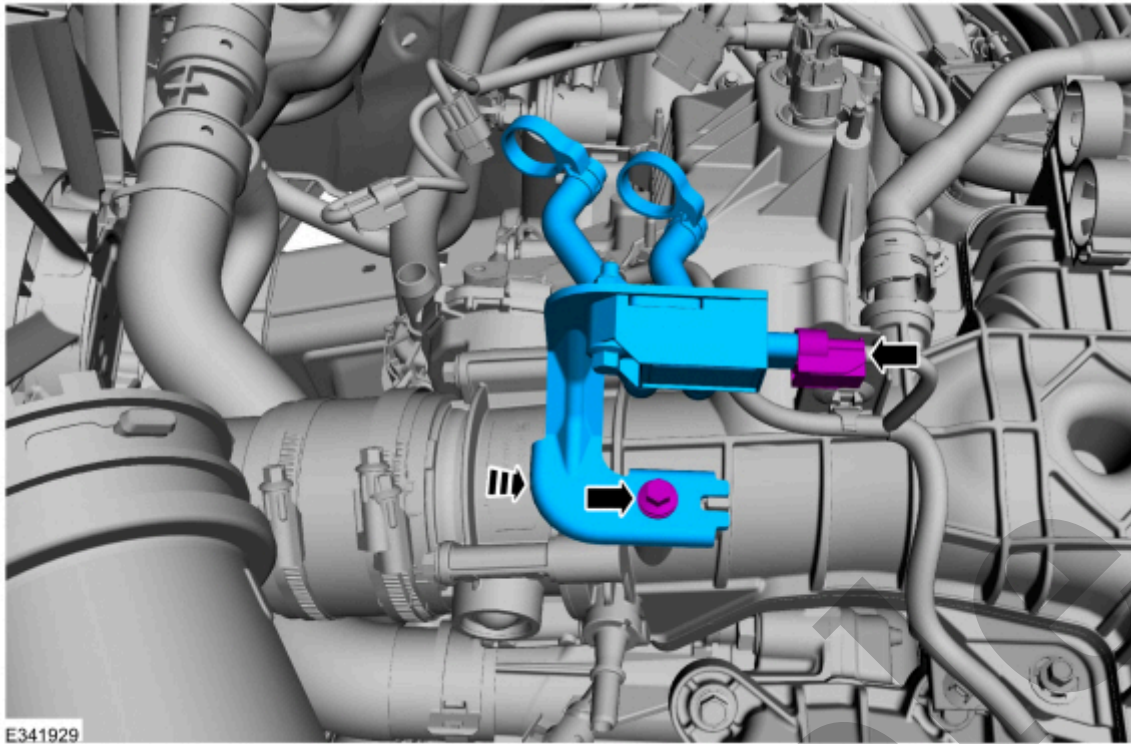
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8. Attach the wiring harness retainers and connect the throttle body electrical connector.



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

9. Position back the throttle body intake pipe and tighten the clamp.



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- 11.
- Install the fuel vapor purge valve.
  - Follow directions to connect the quick release couplings type 5.

Refer to: [Quick Release Coupling](#)(310-00C Fuel System - General Information - 3.5L EcoBoost (BM), General Procedures).

- Attach the pin-type retainer.
- Connect the electrical connector.