



FORD PERFORMANCE

M-9452-M8 Mustang GT Intake and Air Bucket upgrade W/calibration

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Please visit www.fordperformanceparts.com for the most current instruction and warranty information.

PLEASE READ ALL OF THE FOLLOWING INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION. AT ANY TIME YOU DO NOT UNDERSTAND THE INSTRUCTIONS, PLEASE CALL THE FORD PERFORMANCE TECHLINE AT 1-800-367-3788

Parts included:

- 1-GT350 Intake manifold M-9424-M52
- 1-GT350 Air bucket w/filter. Includes bucket to throttle body pipe
- 1-Air bucket inlet
- 1-GT350 Throttle body M-9926-M52
- 1-EVAP solenoid jumper harness
- 1-wire tie w/12.5mm offset
- 2-Wire tie w/25mm offset
- 1-Foam seal
- 1-PCV tube, drivers side
- 1-Throttle body gasket
- 1-Brake booster vacuum line
- 1-Plug, sound symposer eliminator
- 1-ProCal voucher
- 1-Procal 3 vehicle interface connector
- 1-EO label
- 1-USB Cable
- 2-Bolts 6mm with stud, EVAP solenoid
- 1-Bolt 6mm PCV tube

Warning: Read ProCal voucher before starting installation!

Intake Manifold Removal

NOTICE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces, that enters the oil passages, coolant passages, air intake ports or the oil pan, can cause engine failure.

Release the fuel system pressure.

Fuel System Pressure Release

Pressure release

NOTE: *The FPDM are located on the LH side, beneath the rear seat cushion.*

Factory Ford shop manuals are available from Helm Publications, 1-800-782-4356



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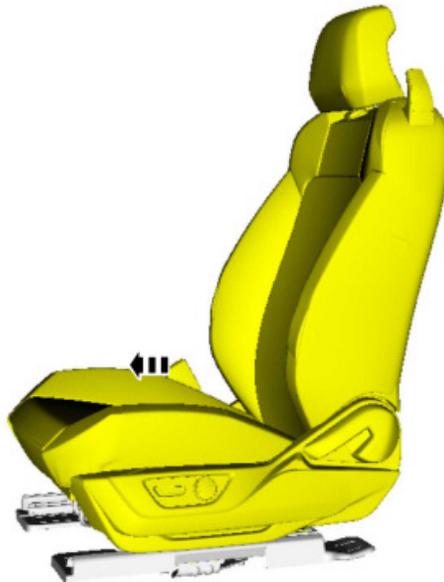
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Remove the rear seat cushion.

Rear Seat Cushion Removal

On both sides.
Move the front seats to the full forward position.



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NOTICE: The seat cushion tabs must be pressed in to release them from the floor. If the locking tabs are not pressed in, it may result in damage to the tabs.

Located at the front of the seat cushion, press in on the locking tabs to release the seat cushion from the floor.

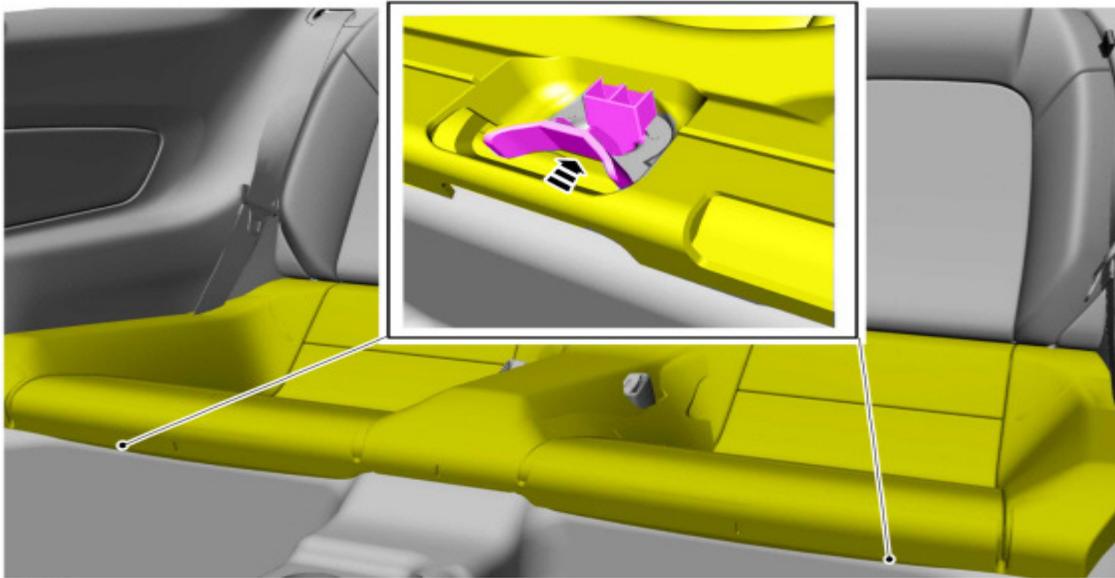
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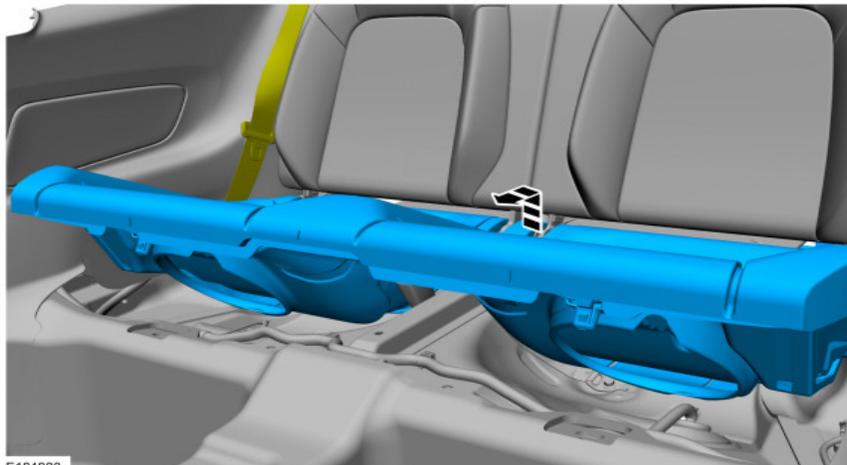
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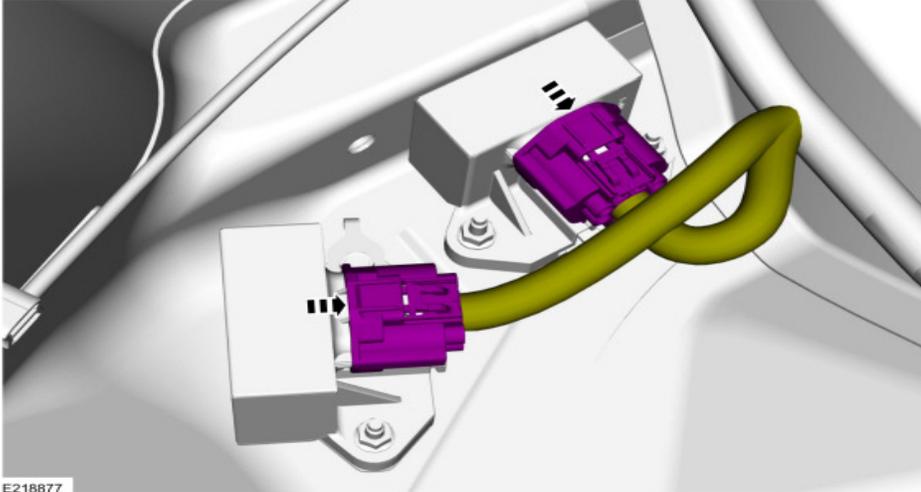


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Disconnect the two Fuel Pump Control Module electrical connectors.



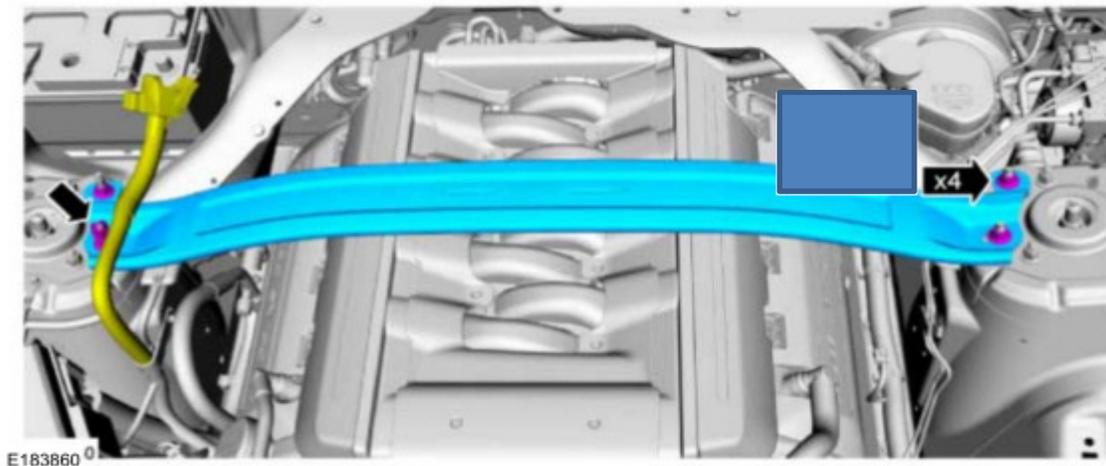
Start the engine and allow it to idle until the engine stalls.

Turn the ignition switch to the off position

-Intake manifold removal continued-

Disconnect the battery ground and positive cables.

If equipped with a strut tower cross brace, detach the wiring harness retainer.
Remove the nuts and the strut tower cross brace.



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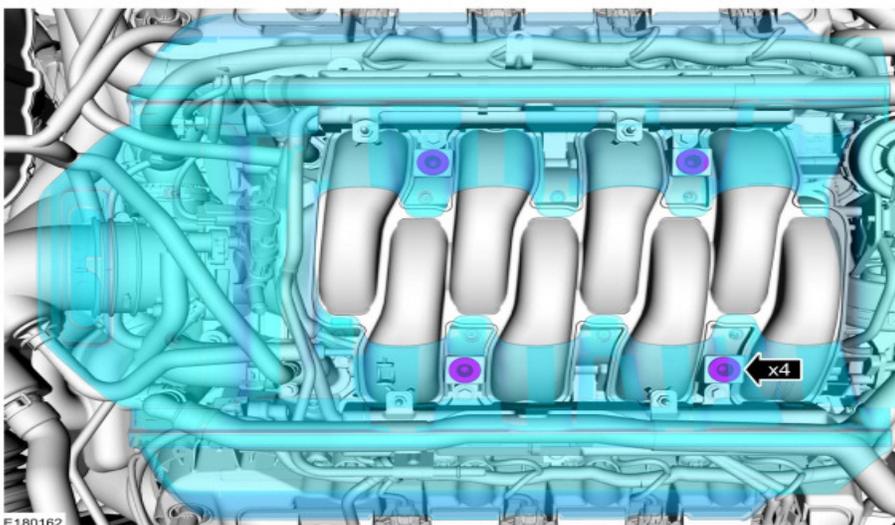
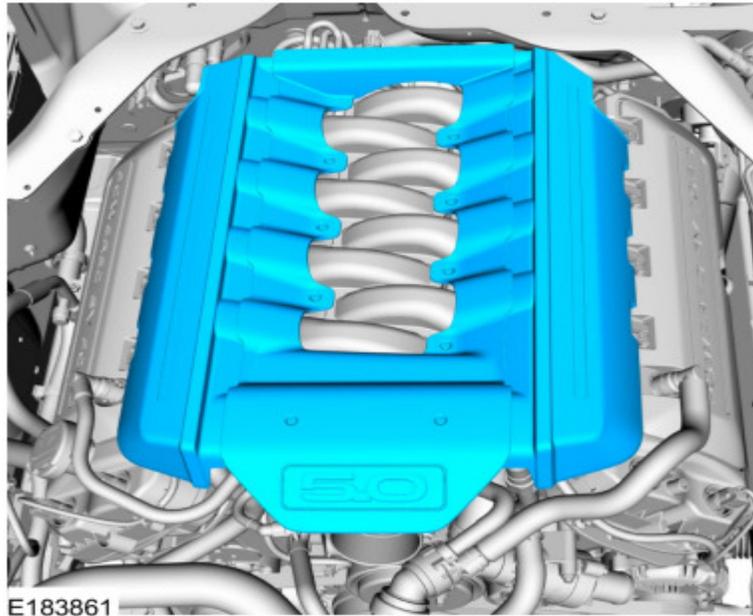


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Remove engine appearance cover by pulling up on cover. Cover will not be reused with GT350 intake.



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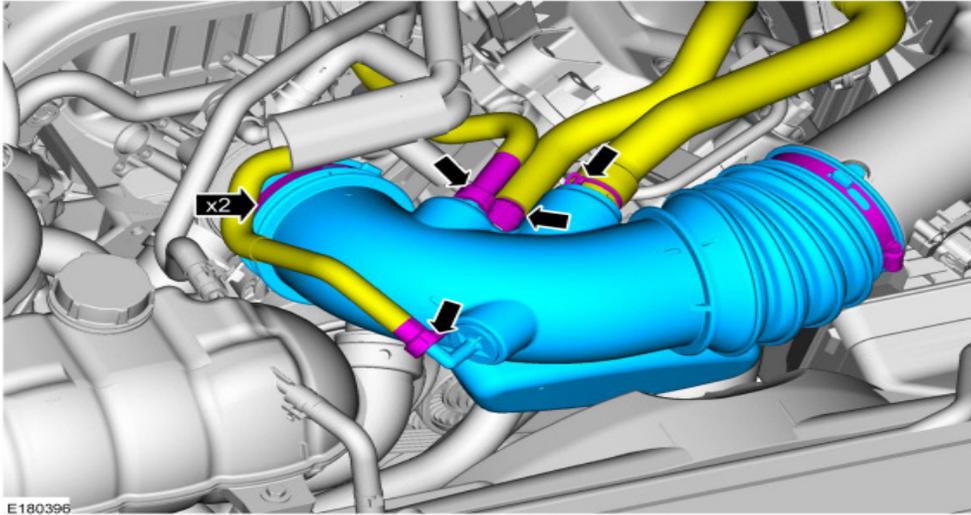
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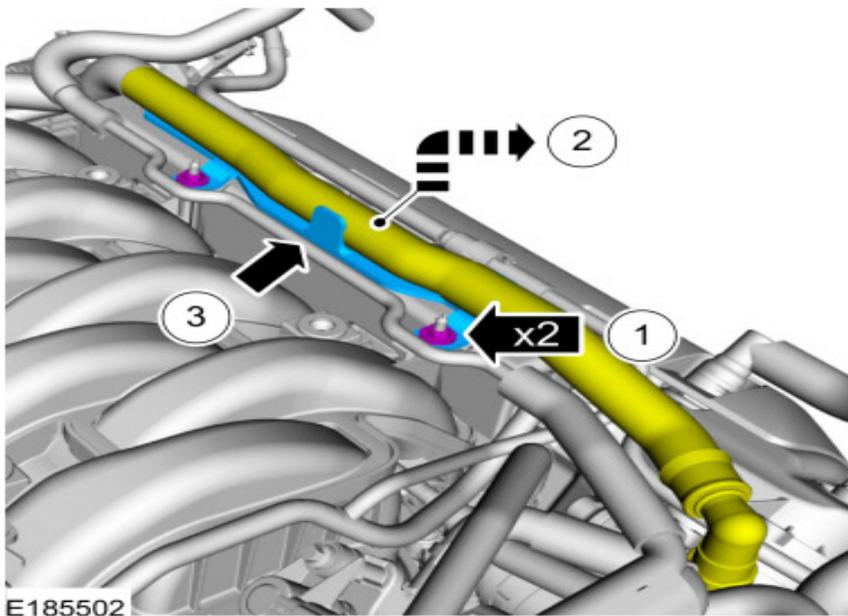
Air cleaner outlet pipe removal

Disconnect and position aside the 2 brake booster tubes, crankcase ventilation tube and resonator air inlet tube. Loosen the 2 clamps and remove the air cleaner outlet pipe.



-Intake manifold removal continued

Remove the nuts.
Position the heater hose aside.
Remove the heater hose support.



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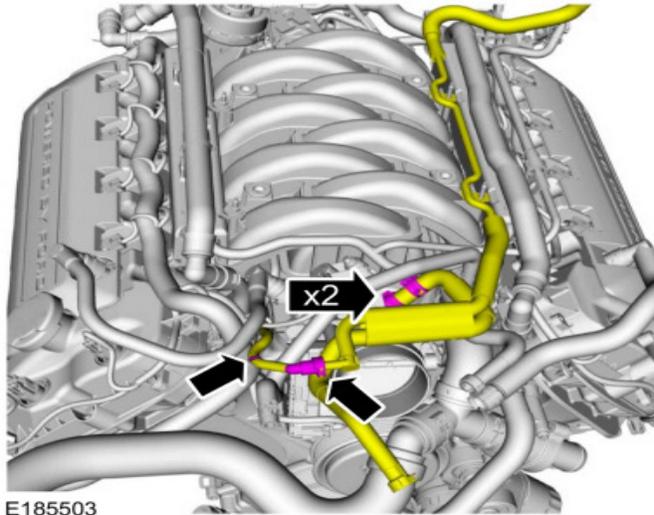
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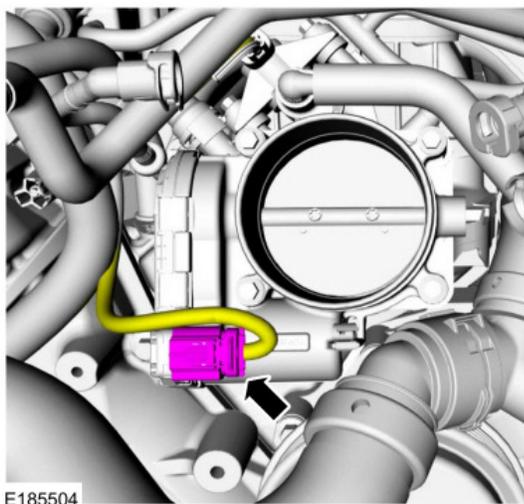
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Detach the vacuum tube retainer.

Disconnect the vacuum tube from intake and brake booster.
Release the clamps and remove the vacuum tube assembly.



Disconnect the throttle body electrical connector.



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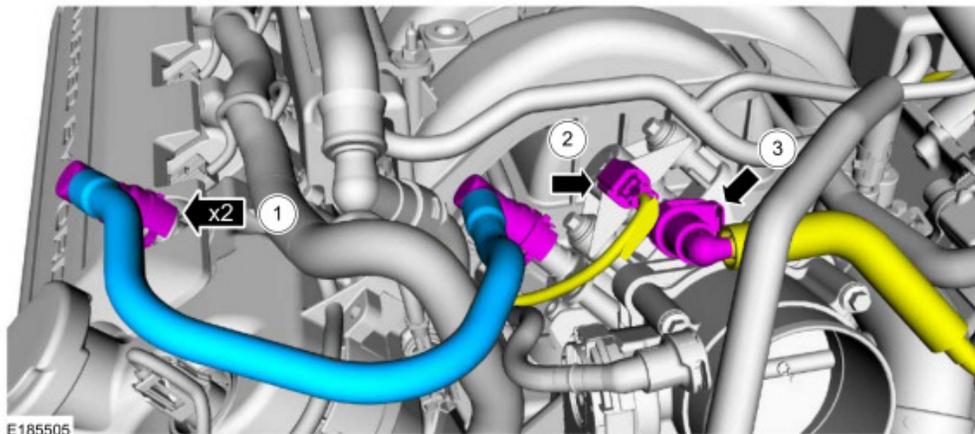


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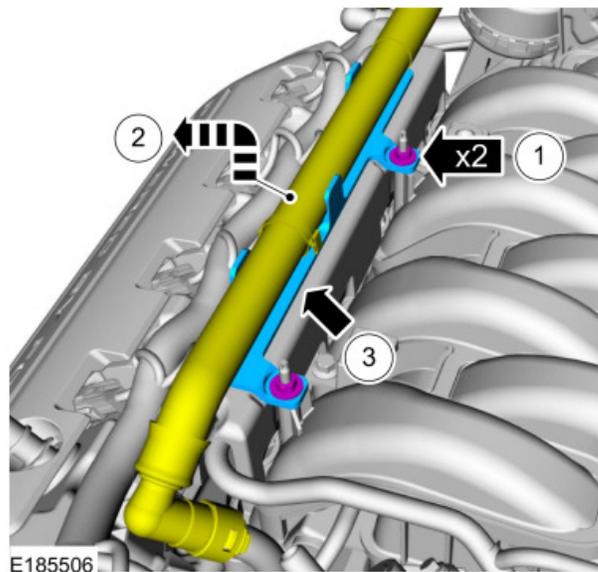
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- 1 Disconnect the couplings and remove the crankcase vent tube.
- 2 Disconnect the EVAP purge valve electrical connector.
- 3 Disconnect the EVAP tube and position aside.



- 1 Remove the nuts.
- 2 Position the heater hose aside.
- 3 Remove the heater hose support.



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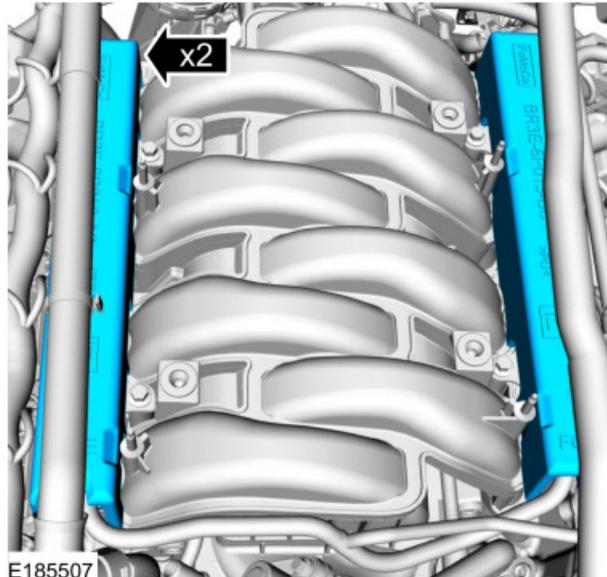


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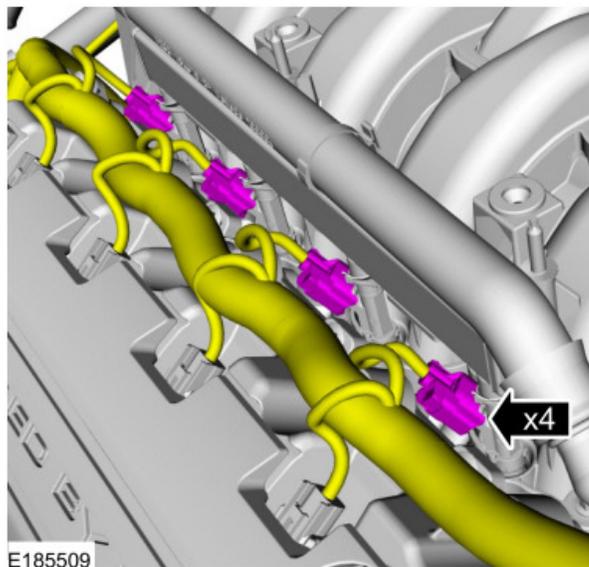
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Remove the fuel rail insulators. Insulators will not be reused with GT350 intake.



Disconnect the RH fuel injector electrical connectors.



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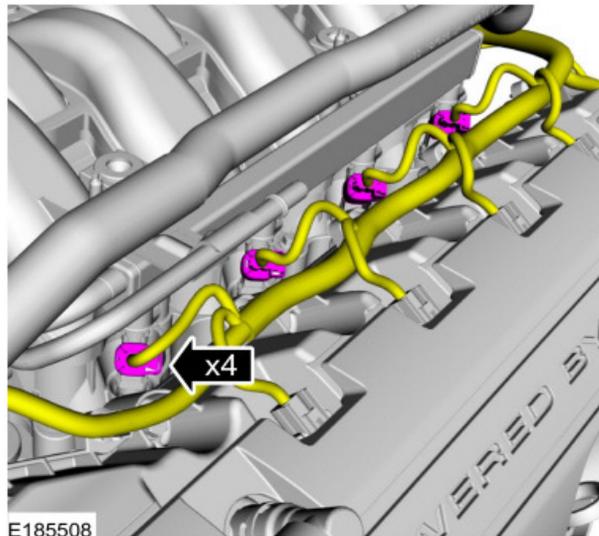


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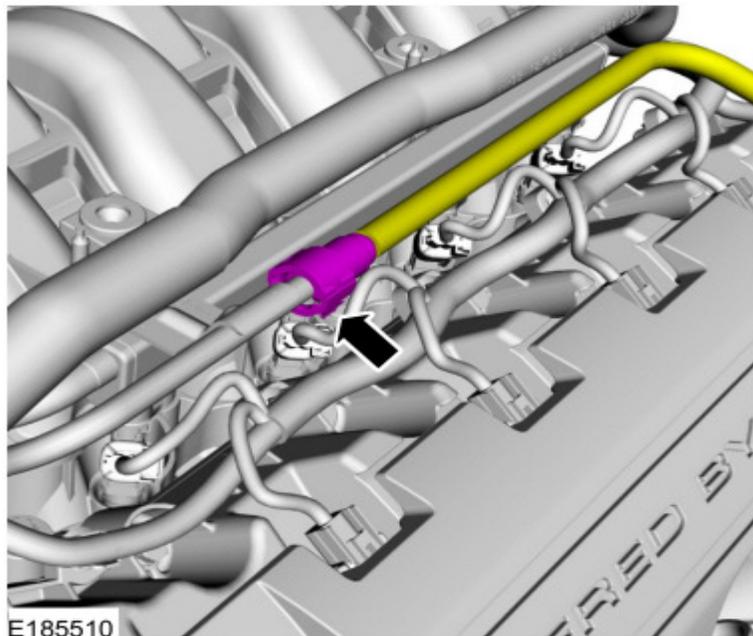
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Disconnect the LH fuel injector electrical connectors.



Disconnect the fuel supply tube. Wrap rag around connector before removing to soak up any residual fuel.



NOTE: *It is not necessary to remove the fuel rail from the intake manifold assembly at this time.*

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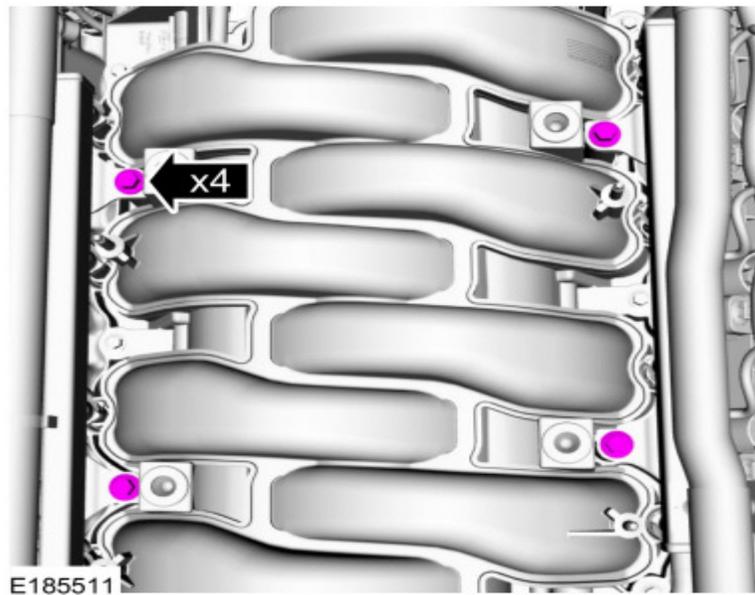


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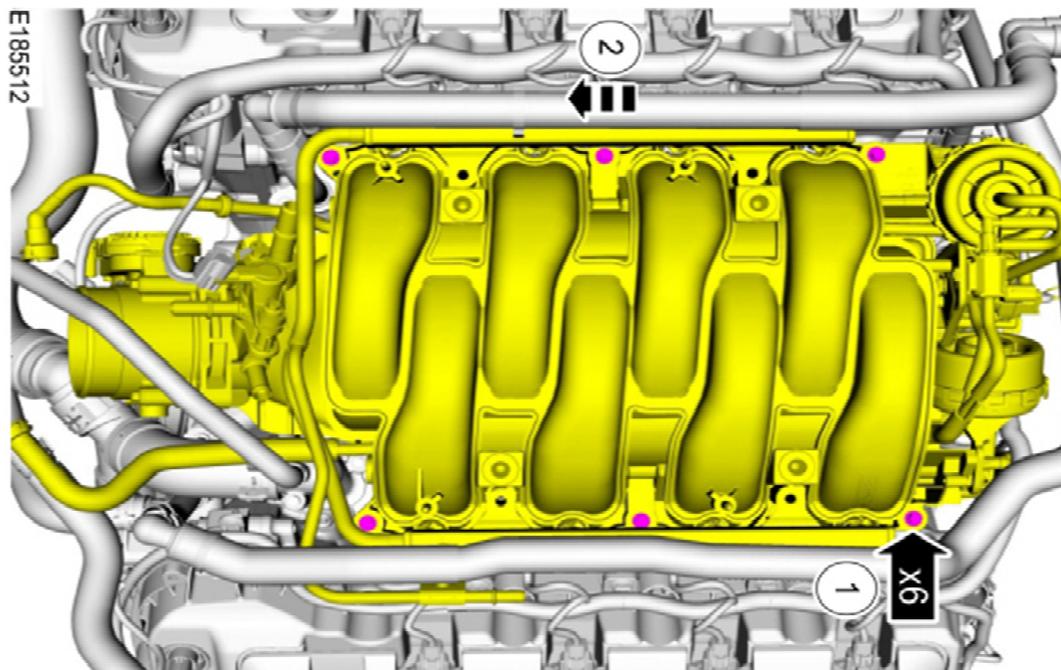
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Remove the fuel rail bolts.



Loosen the intake manifold bolts.

Position the manifold up and towards the front of the engine to access the rear of the manifold.



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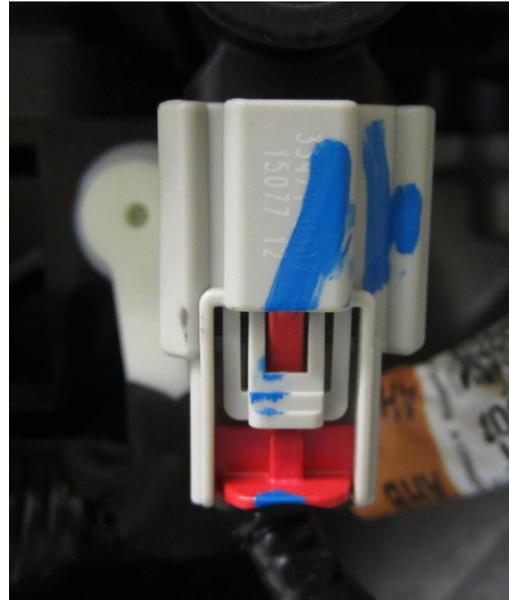
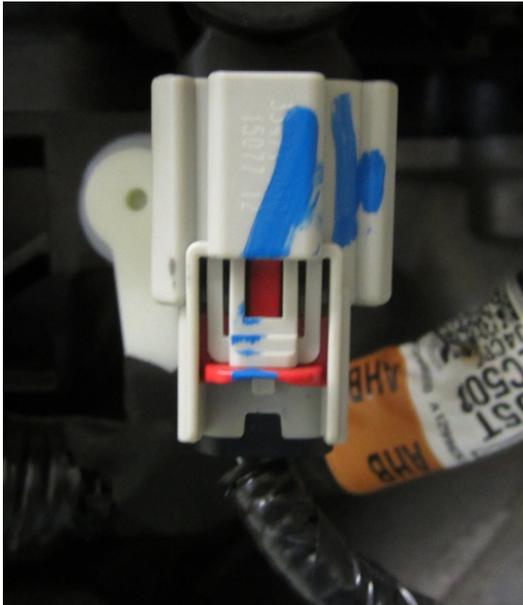


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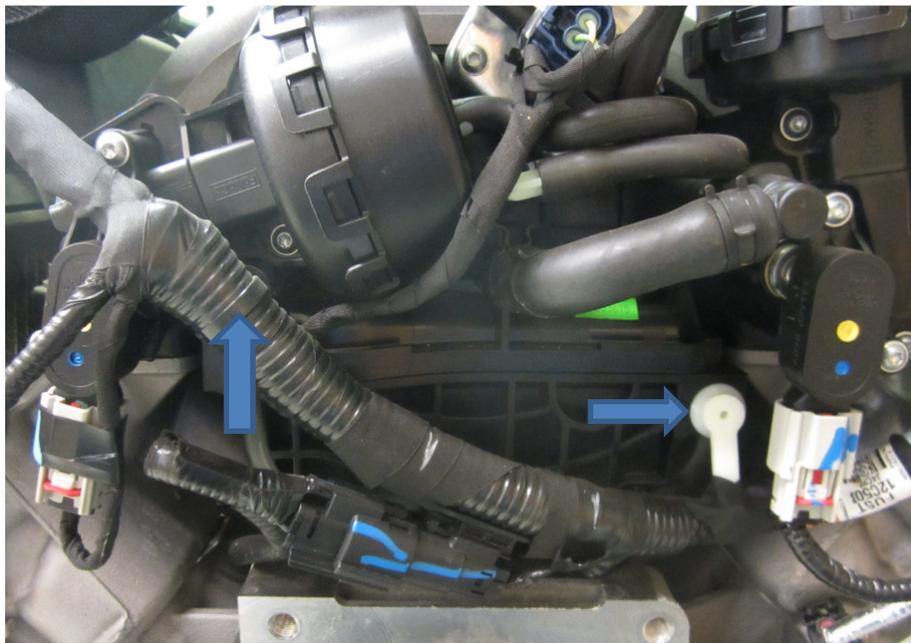
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Disconnect the IMRC sensor electrical connectors at lower back of intake.
Slide down locks and depress release tab.



Detach the wire ties with offset at lower back of intake.



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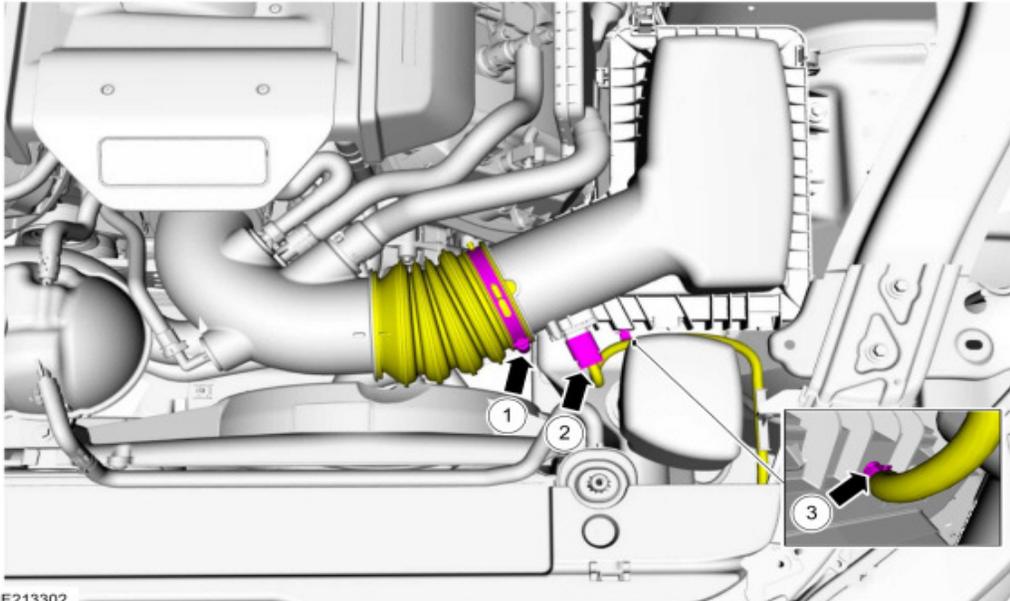
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Remove the intake manifold.

Disconnect the MAF sensor electrical connector. 2

Detach and position the wire harness from the air cleaner. 3

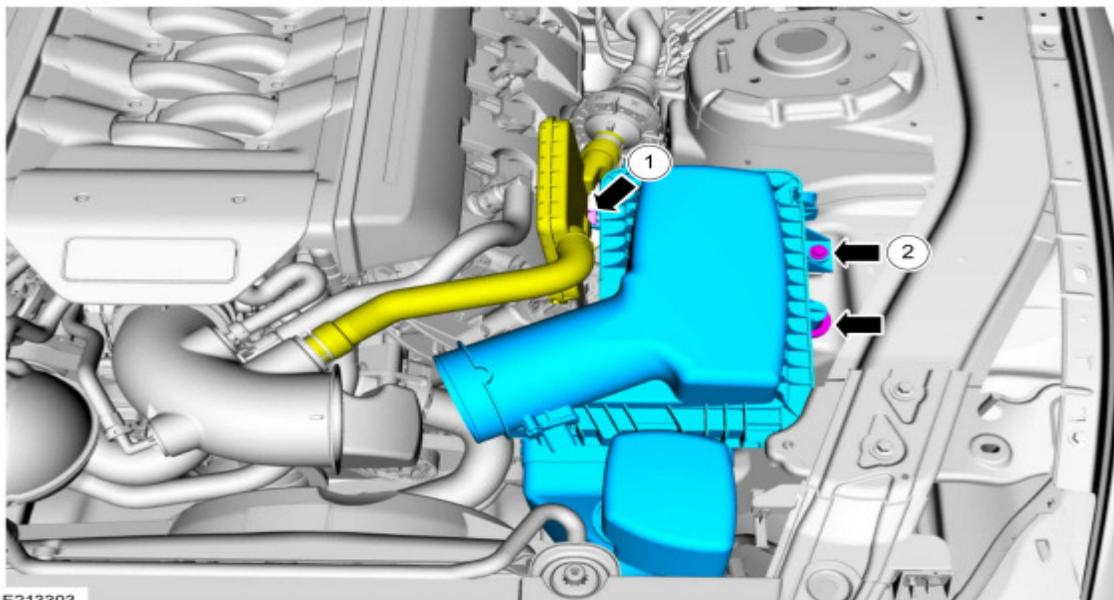


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Detach and position the sound symposer from the air cleaner. 1

Remove the bolt and the air cleaner. 2

Detach and remove the sound symposer tube from the air cleaner tube.



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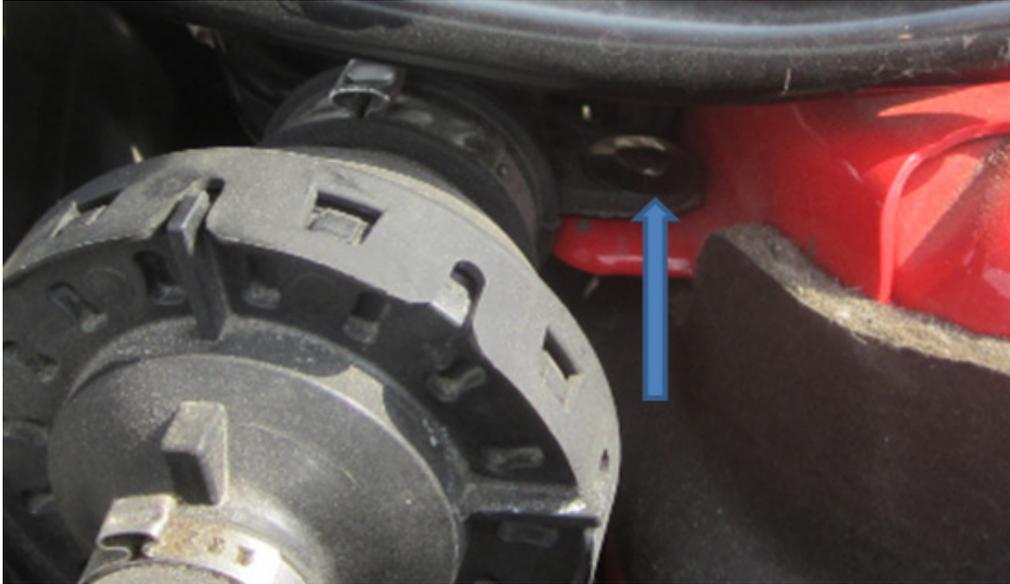


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Use a trim panel removal tool or similar to release symposer tube from push pins.



Release symposer tube from engine compartment bulkhead.



Remove sound symposer tube from vehicle.
Install symposer delete plug in engine compartment bulkhead.

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GT 350 Intake manifold Installation

Install new gaskets.

Transfer fuel rail and injectors from GT intake to GT350 intake.

Modify engine wiring harness.

Un-tape and pull wire harness out of convoluted split loom.



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Install convoluted loom (not included) over wires and re-taped. Release blue IMRC solenoid connector from tape. This allows the connector to reach the solenoid on the GT350 intake.



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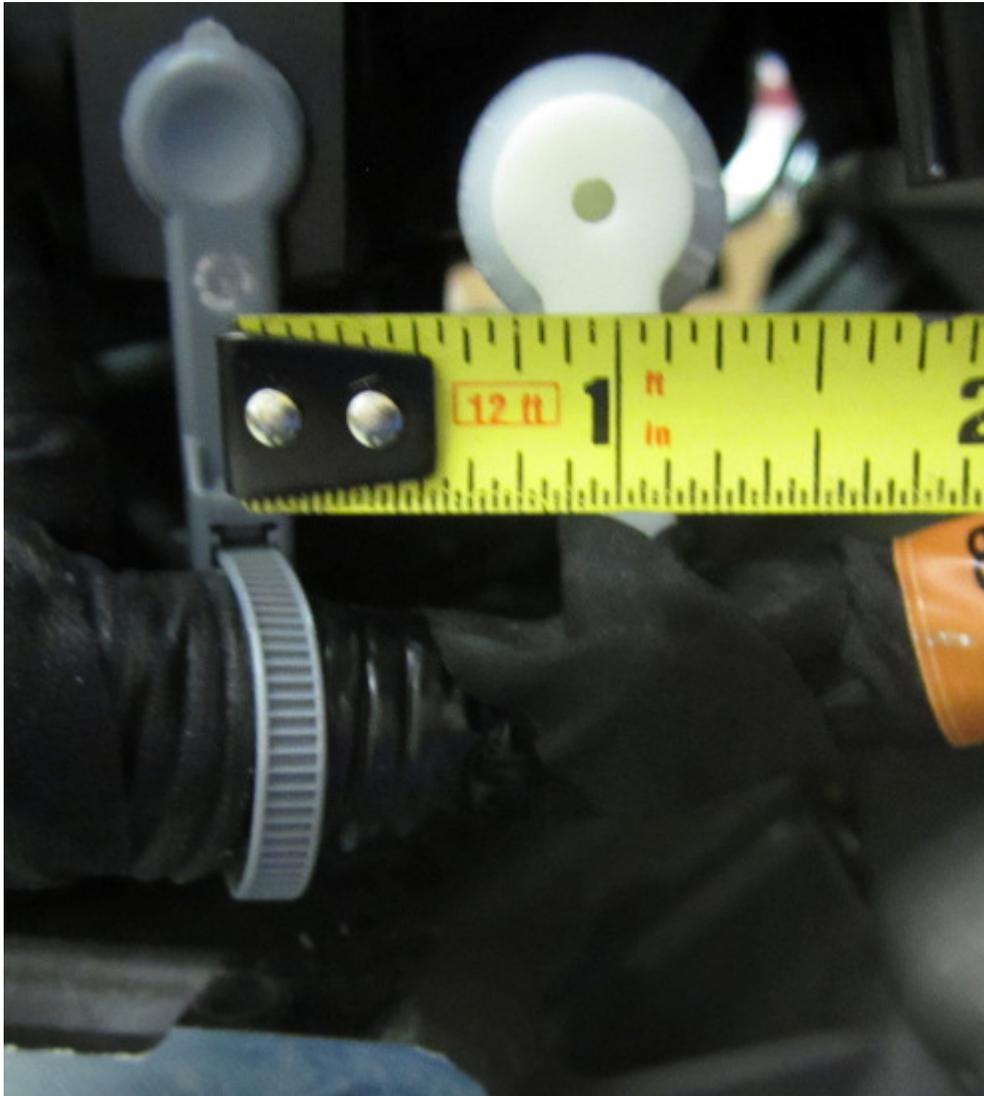


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Install cable tie with 25mm off-set. RH side shown.



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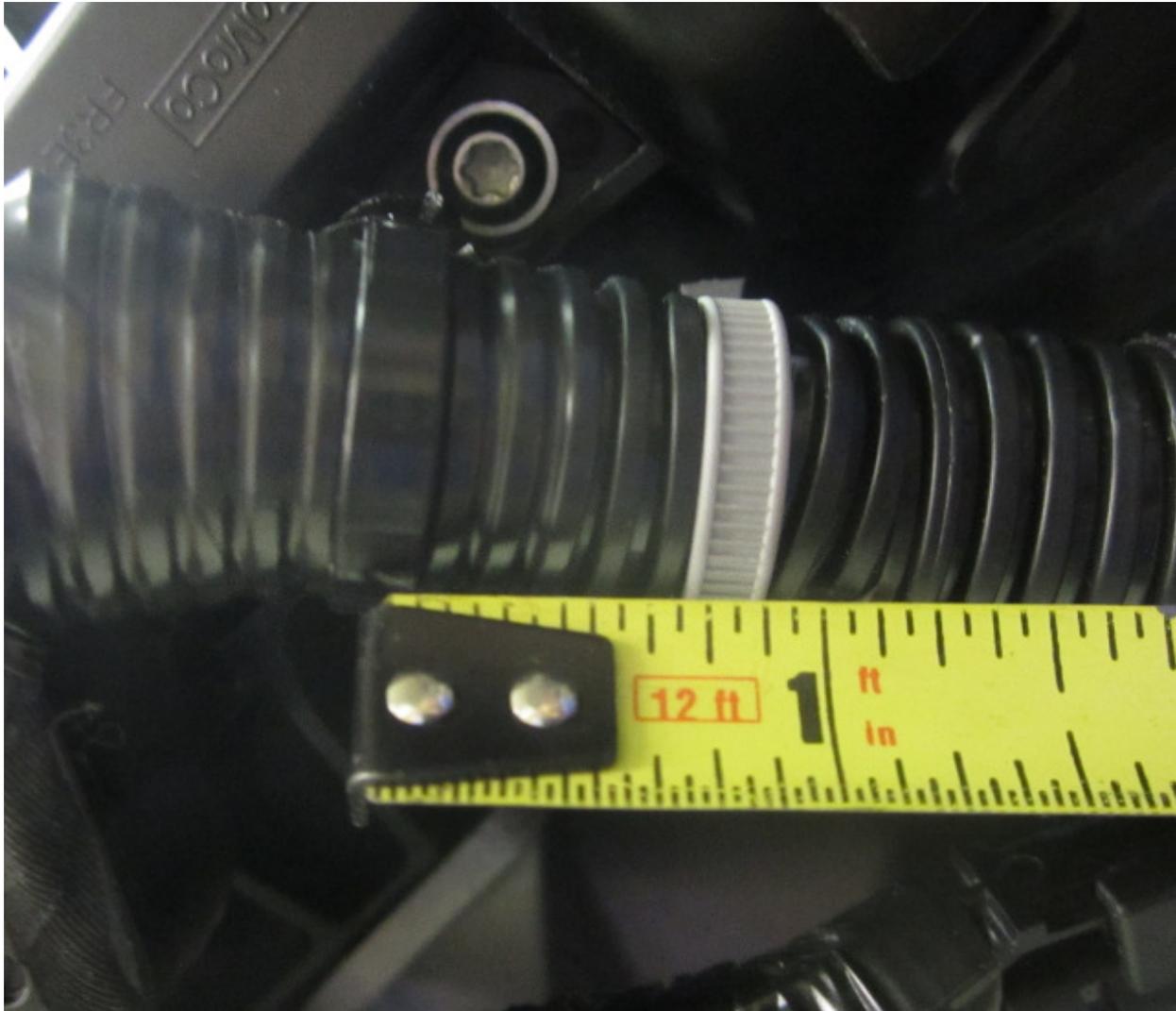


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Install gray cable tie with 12.5mm off-set. LH side shown.



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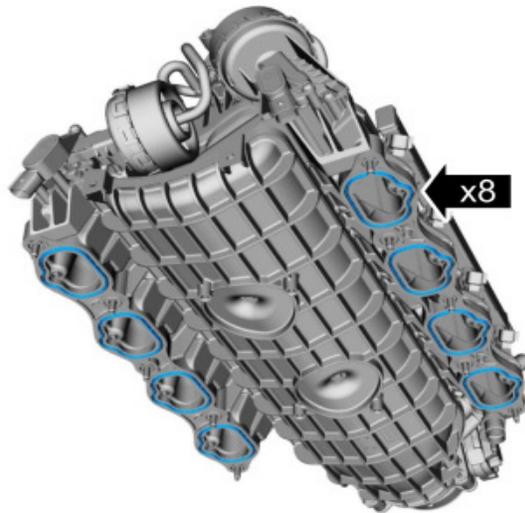


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Verify gasket installation
Position the intake manifold onto the engine.



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Attach the cable ties with off-set to intake



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Plug in white electrical connectors into the IMRC sensors at back of intake. Push red tabs up to lock. Plug the blue electrical connectors into the IMRC solenoids.



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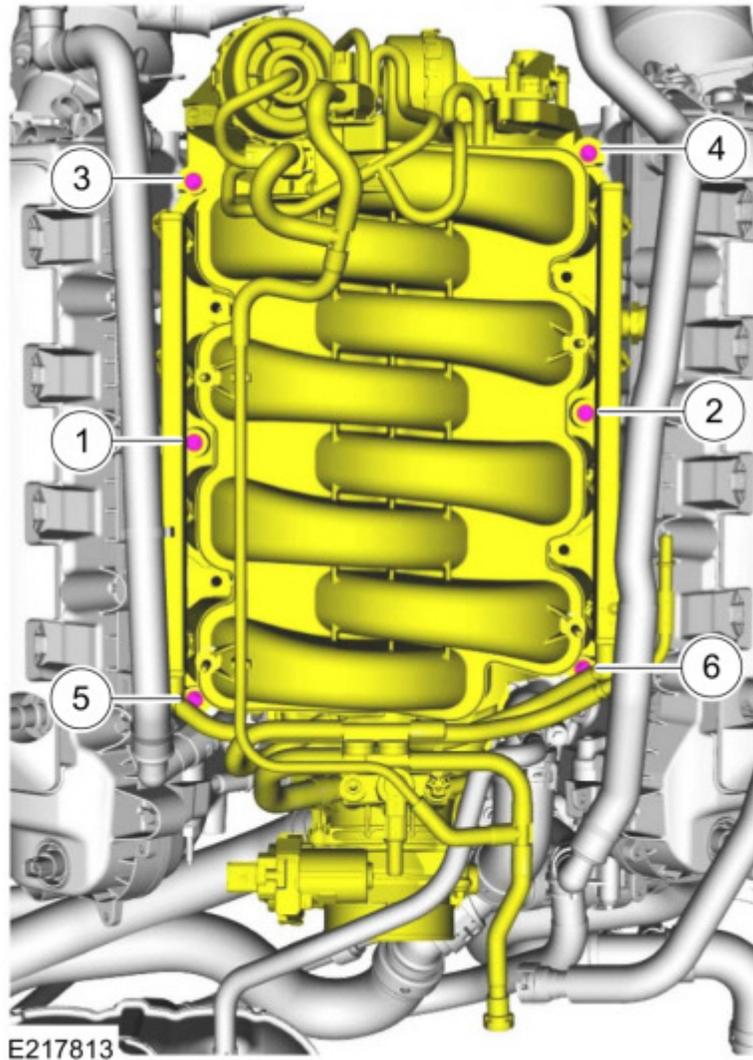


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Position the manifold to the installed position.
Tighten the intake manifold bolts.
Torque:
Stage 1: 106 lb.in (12 Nm)
Stage 2: 35°



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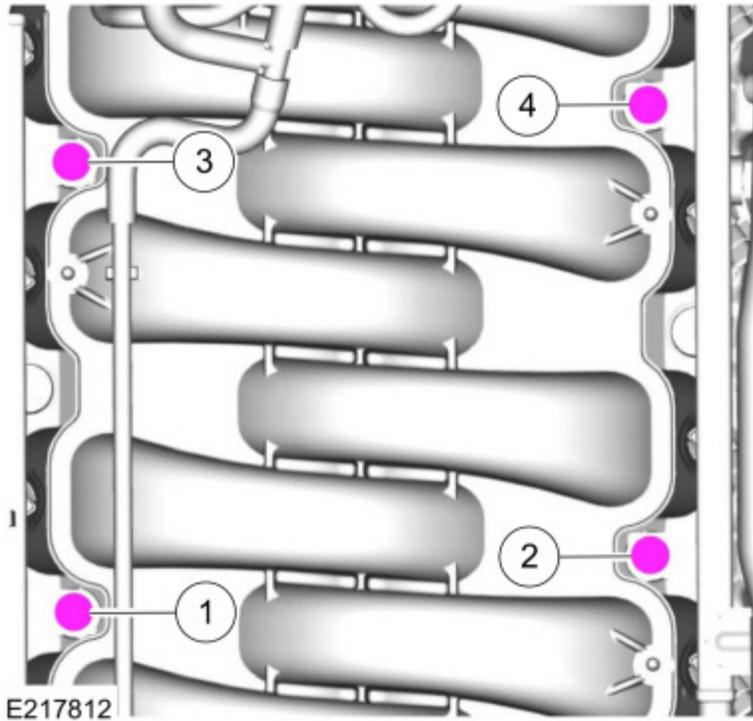
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Install the fuel rail bolts.

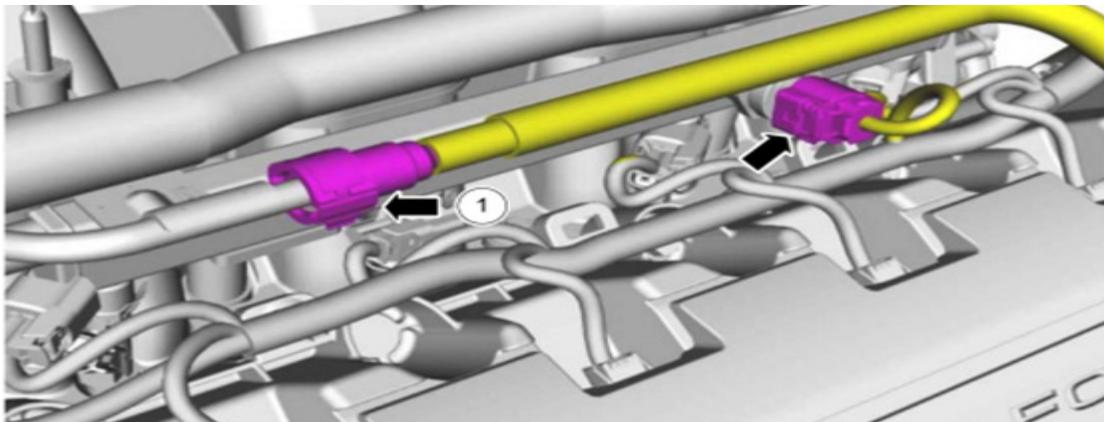
Torque:

Stage 1: 89 lb.in (10 Nm)

Stage 2: 90°



Connect the fuel supply tube.



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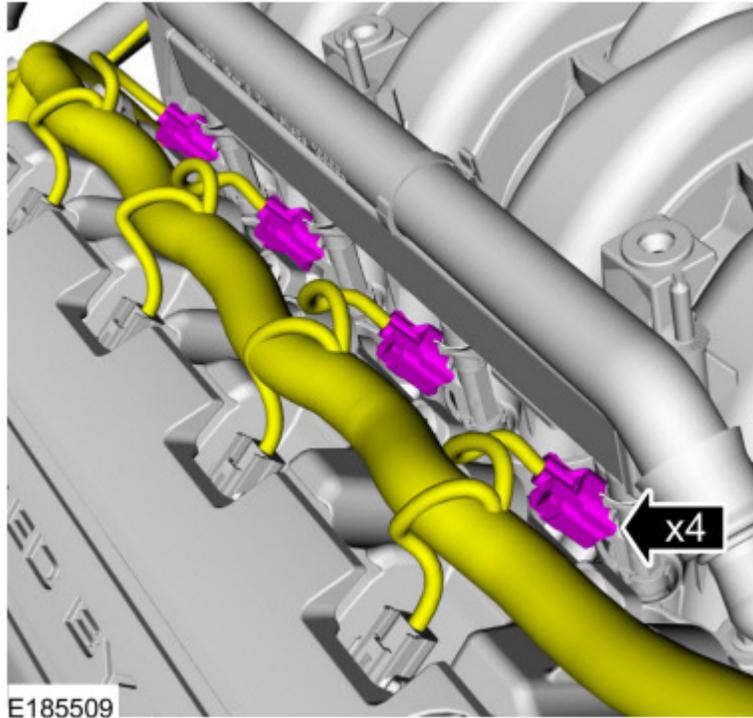
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NOTE: *On both sides.*

Connect the fuel injector electrical connectors.



Remove the EVAP canister purge valve from the GT intake and install on GT350 intake. Use provided fasteners with stud. Both fasteners *Torque*: 89 lb.in (10 Nm)

Remove the PCV tube from the GT intake and install on the GT350 intake. Use provided fastener. *Torque*: 89 lb.in (10 Nm)

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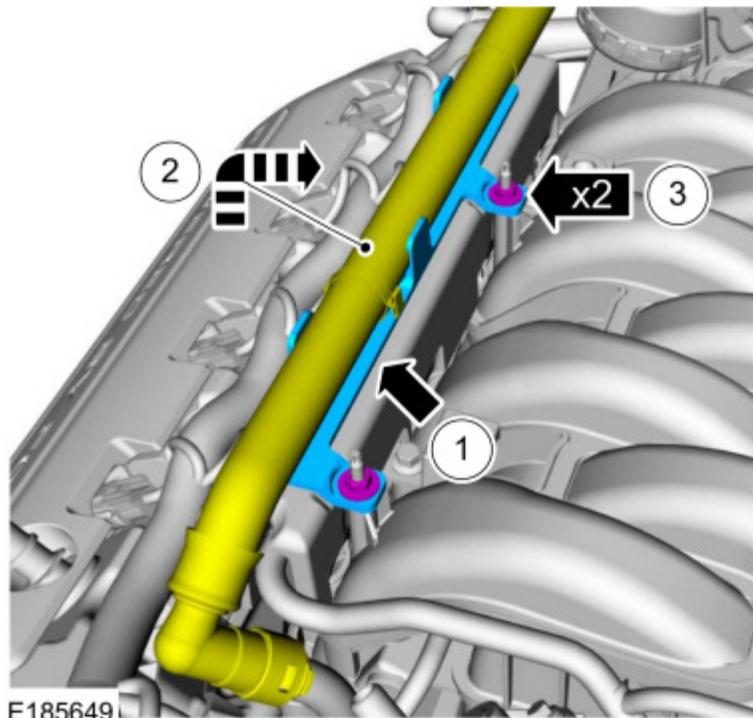
Position the crankcase vent tube and connect the couplings.

Install the heater hose support. 1

Position the heater hose. 2

Install the nuts. 3

Torque: 62 lb.in (7 Nm)



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Connect the throttle body electrical connector

Connect the EVAP tube.

Modify the EVAP purge valve harness.

Un-tape 90 degree from EVAP purge harness.

Replace EVAP purge harness connector with connector provided.



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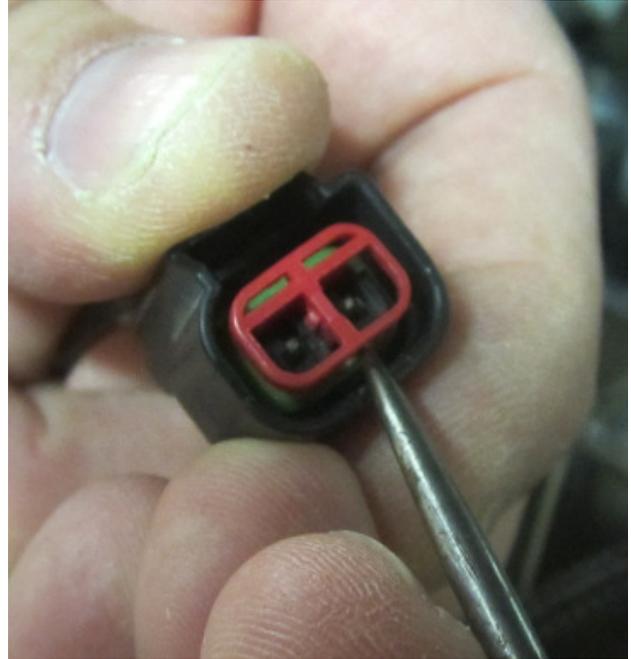


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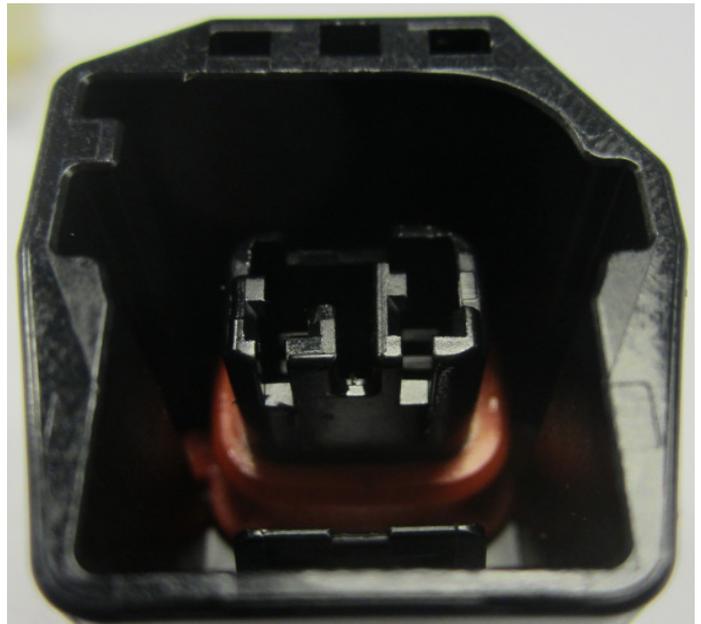
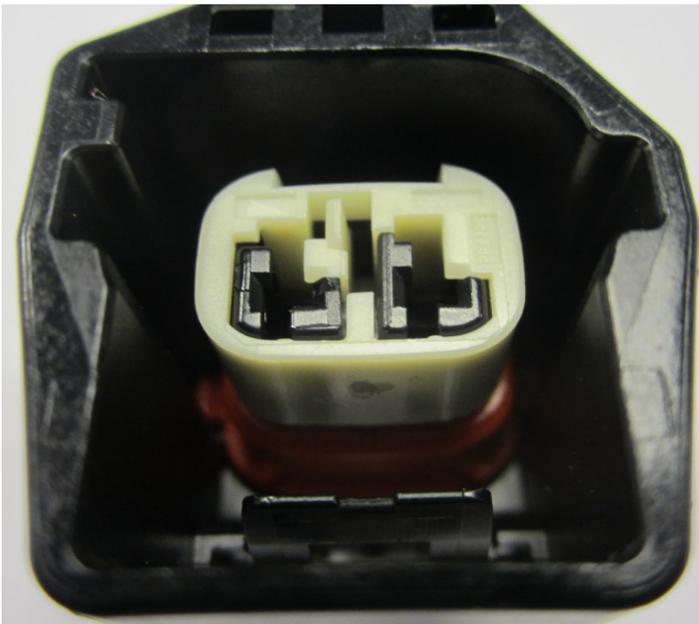
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Remove lock. Release pins one at a time and transfer to new connector.



Remove pin lock from new connector.



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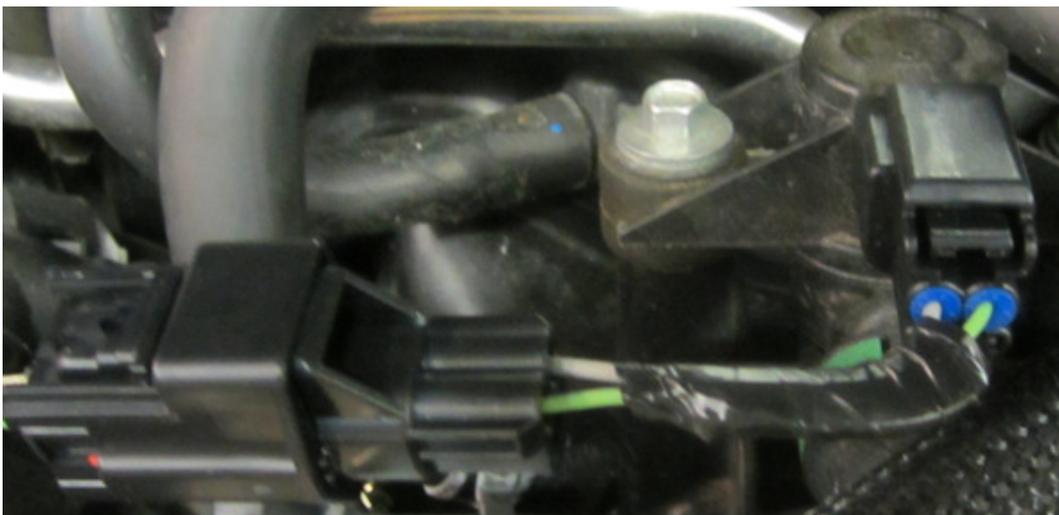
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Release pins one at a time from connector and insert in new connector. Make sure connector locks are positioned the same. When both pins are in place re-install pin lock removed in previous step.



New jumper harness installed.



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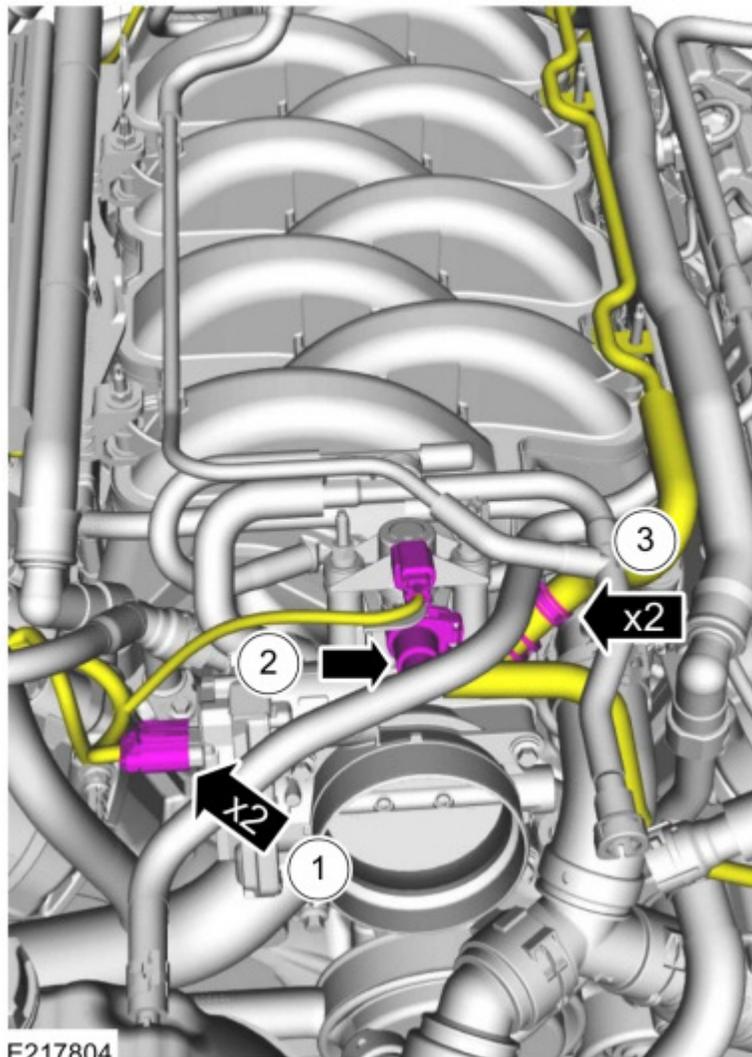


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Install the brake booster vacuum tube assembly. 3



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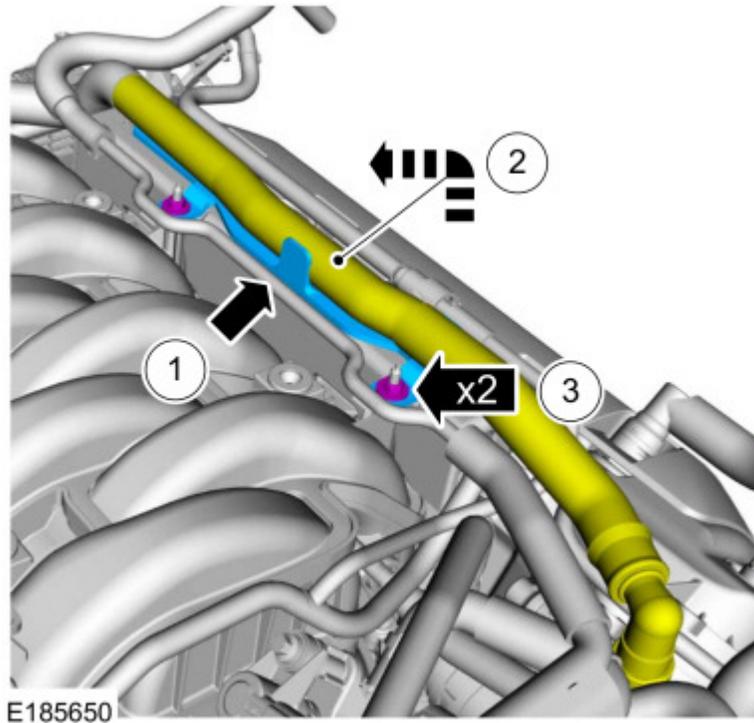


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- Install the heater hose support from GT intake. 1
- Install the nuts. 3
- Torque: 62 lb.in (7 Nm)
- Position the heater hose. 2



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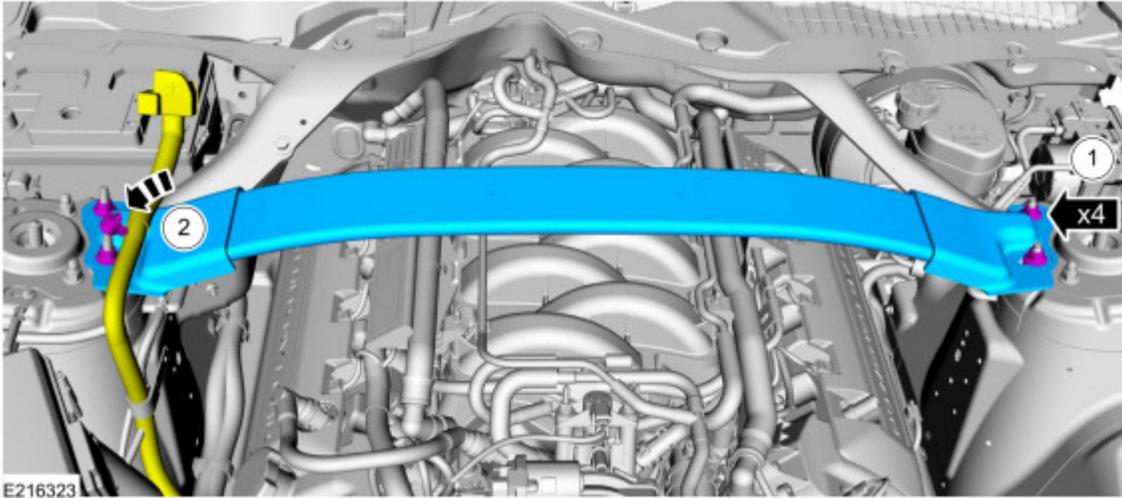


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Install the strut tower cross brace and nuts.
Apply blue thread locking compound to nuts and *Torque: 41 lb.ft (55 Nm)*
Attach the wiring harness retainer.



Install GT350 throttle body

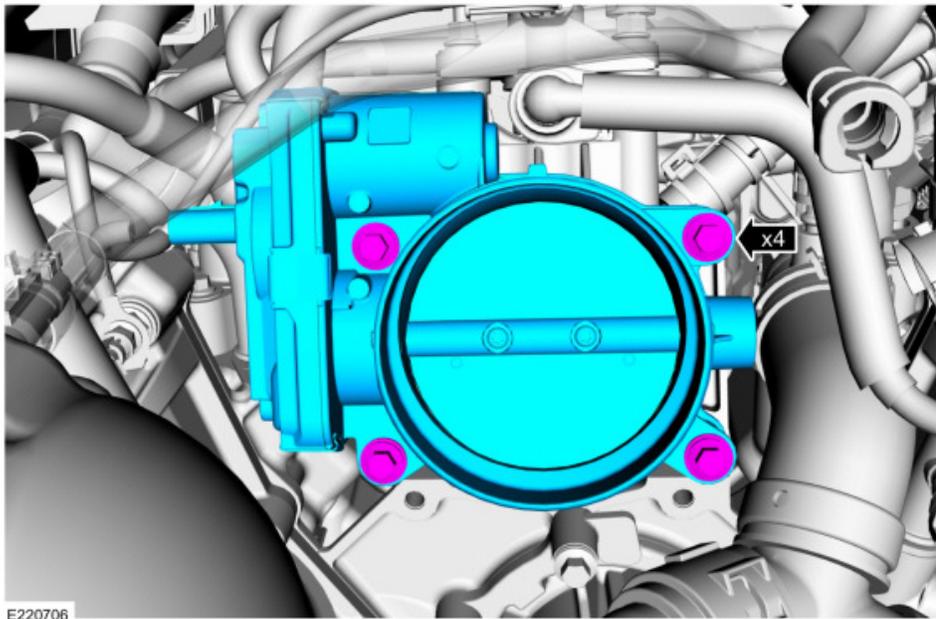
Remove and re-use bolts from the Mustang GT throttle body.

Install the Throttle Body (TB), then install and tighten the Throttle Body (TB) retaining bolts.

Torque:

Stage 1: 89 lb.in (10 Nm)

Stage 2: 60°



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Modify air inlet rubber seal by making two cuts.

Install air inlet on air cleaner assembly.



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- Install air cleaner assembly into vehicle.
- Angle air cleaner assembly with air inlet down.
- Rotate and push air cleaner assembly down.
- Reach into air inlet from filter side and make sure rubber flap is folded down while positioning air cleaner assembly.
- Install hose onto throttle body, do not tighten clamp.
- Install retaining bolt.
- Torque bolt to 89 lb. in



Factory Ford shop manuals are available from Helm Publications, 1-800-782-4356



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Route MAF harness as shown.
Drill hole in Air filter bucket for existing wire tie on harness.
Install wire tie with 25mm offset



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Install foam seal.



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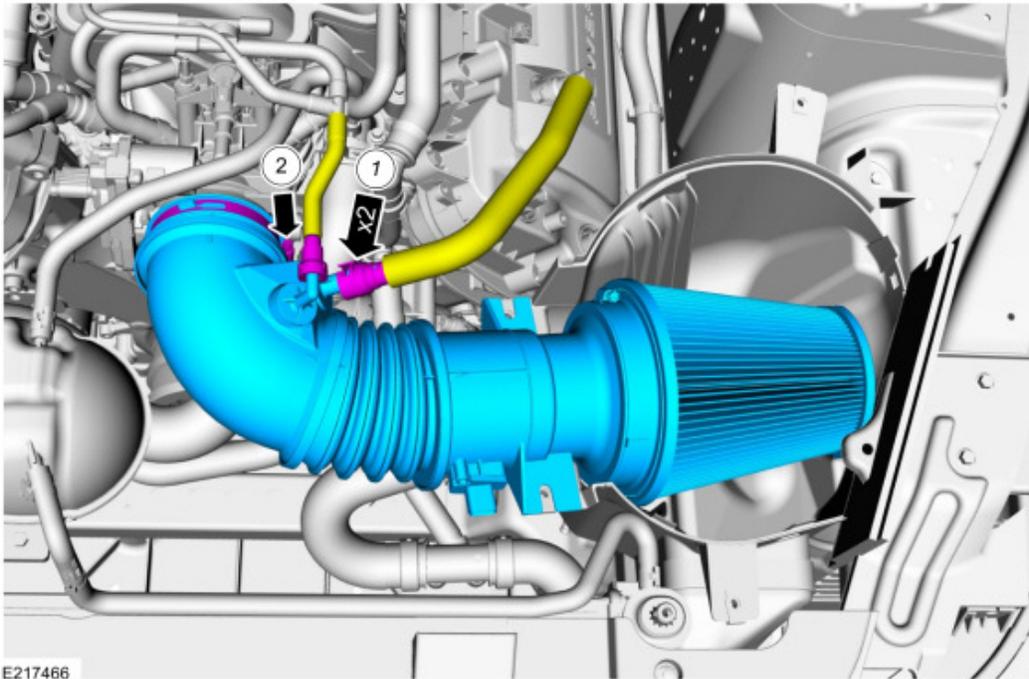
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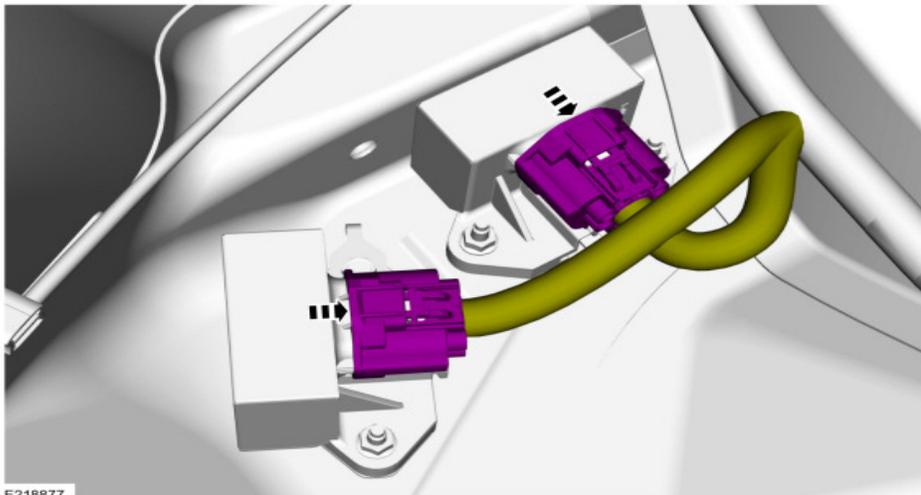
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Install supplied drivers side PCV tube. 1

Tighten clamp. 2
Torque: 44 lb.in (5 Nm)



Connect the two Fuel Pump Control Module electrical connectors.



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Install seat cushion.

Connect battery cables

Warning: calibration must be installed before driving

Warning: Minimum 91 octane fuel required

Start engine and check for leaks

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