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Ford Screamer Drop-In Turbocharger

1045818

**2003-2007 Ford
F250/F350 6.0L**

*Meets CARB Requirements for the following Models (EO-D-553-28)
2003-2007: F250/F350

PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

Kit Contents

Please check to make sure that you have all the parts listed in this kit **before** you start!

1045818	1407556
	
Turbo Qty: 1	Bracket: 2004-07 Pedestal Qty: 1

1400284	1400283	2485006
		
O-Ring; 12.29mmx3.53mm Qty: 1	O-Ring; #210 Qty: 2	Gasket; 6.0L Qty: 1

FT-11115722	FT-11115717	FT-11115725	FT-11115714
			
Bolt; M8x16 Qty: 2	Bolt; M6x20 Qty: 1	Bolt; M8x30 Qty: 3	Bolt; M6x10 Qty: 1

Pre-Installation

A new turbocharger will not solve the following failures:

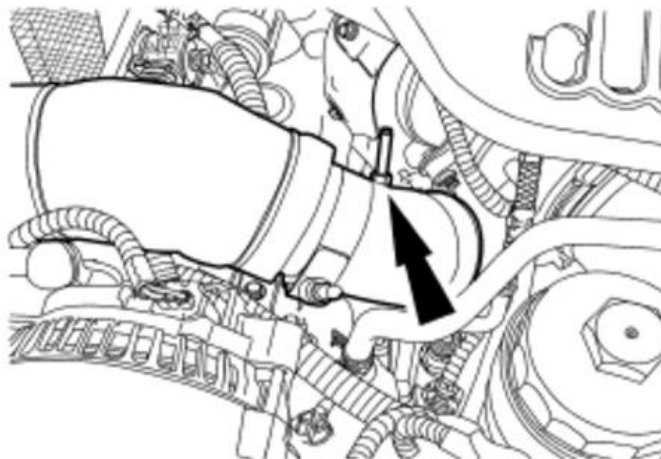
- Oil contamination
- Restrictive oil drain
- Over speed due to a boost leak
- Exhaust leaks due to faulty bellows, clamps, or seals

Removal

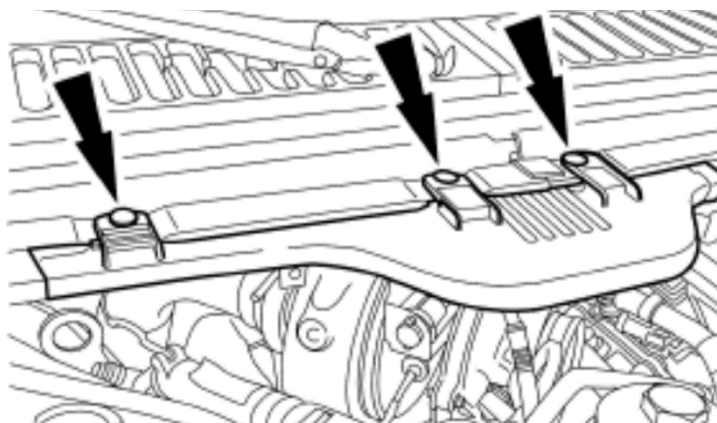
Disconnect the turbocharger intake tube.



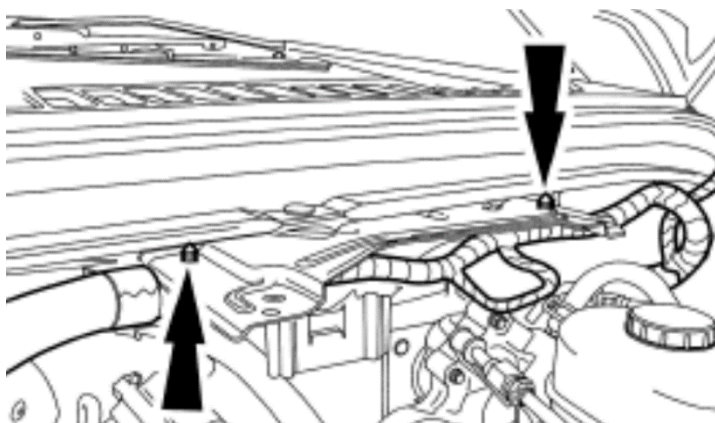
Disconnect the charge air cooler (CAC) inlet pipe.



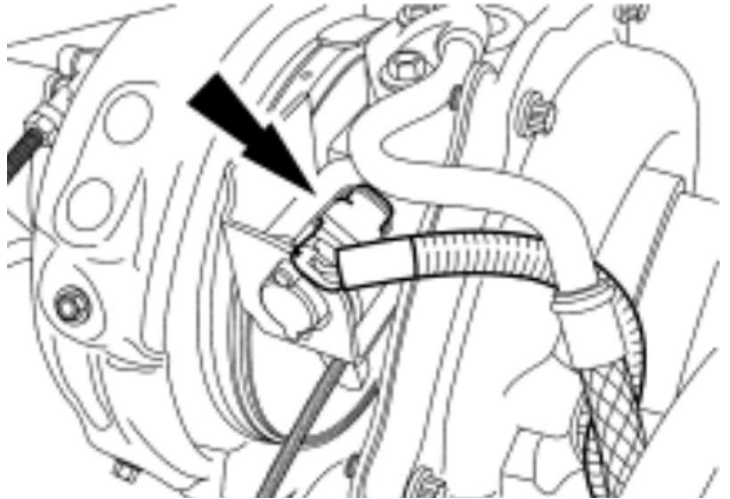
Remove the push pins and cowl cover.



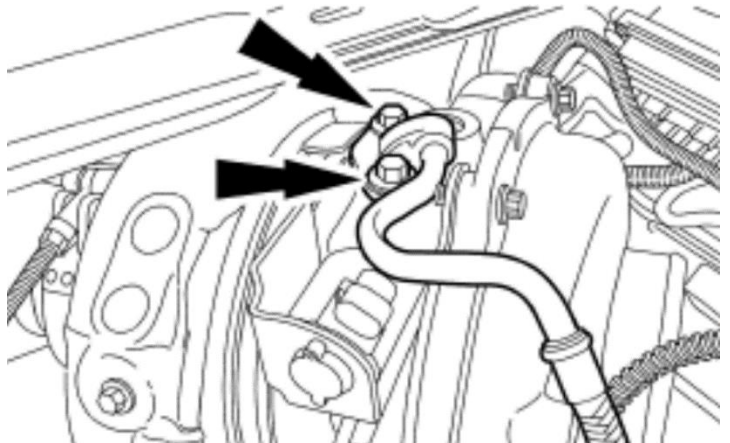
Disconnect the 2 wiring harness push pins and position aside.



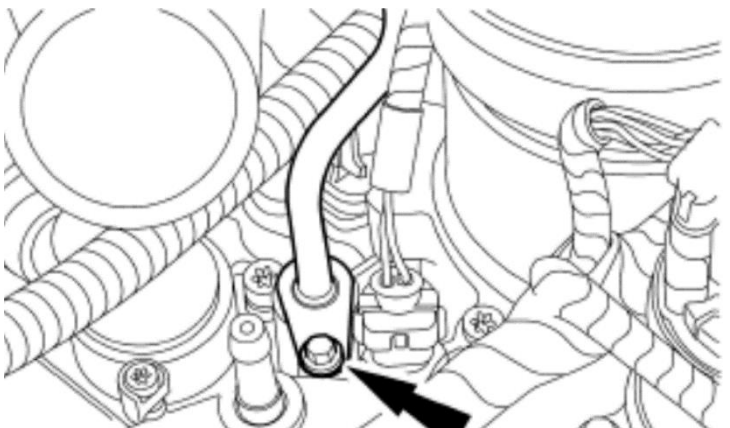
Disconnect the turbocharger solenoid valve electrical connector.



Remove the bolts for the oil supply tube. Remove and discard the gasket.



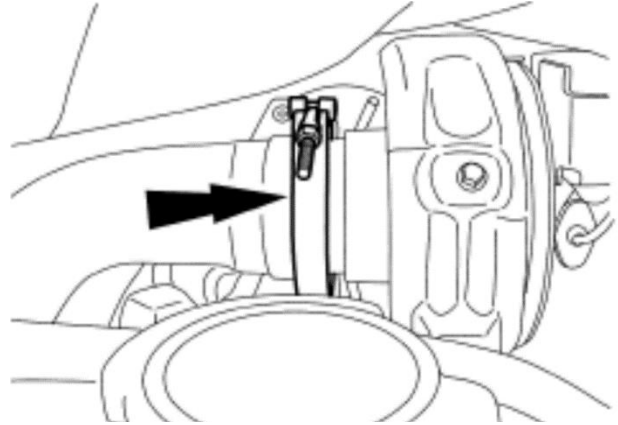
Remove the bolt and turbocharger oil supply tube. Remove and discard O-ring.



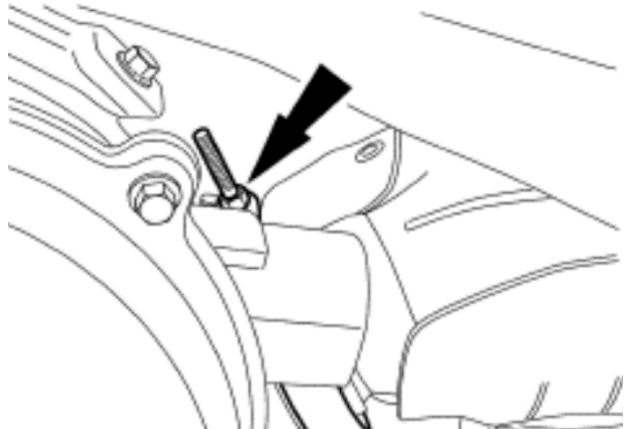
Remove the bolt and the wire retainer.



Remove the Marmon clamp from the turbocharger outlet.



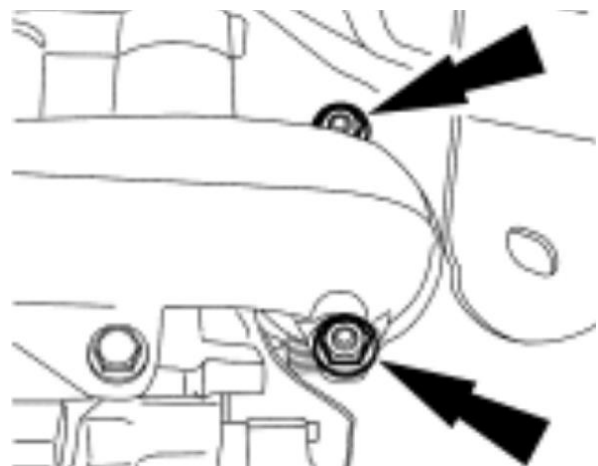
Remove the Marmon clamp from the turbocharger inlet.



Loosen the exhaust inlet pipe-to-EGR cooler clamp.



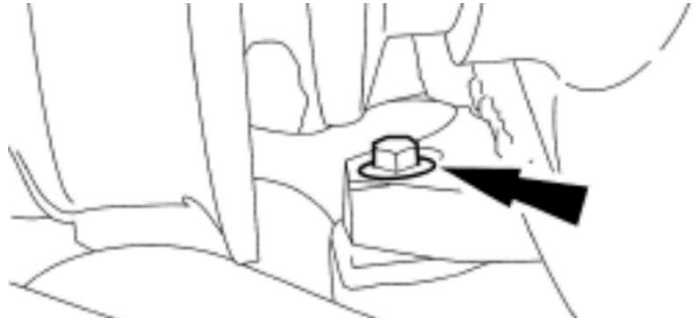
Loosen the left-side exhaust inlet pipe-to-exhaust manifold nuts.



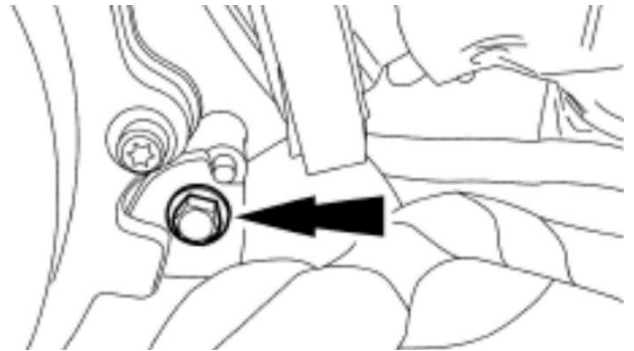
Loosen the right-side exhaust inlet pipe-to-exhaust manifold nuts.



Remove the rear turbocharger mounting bolt.



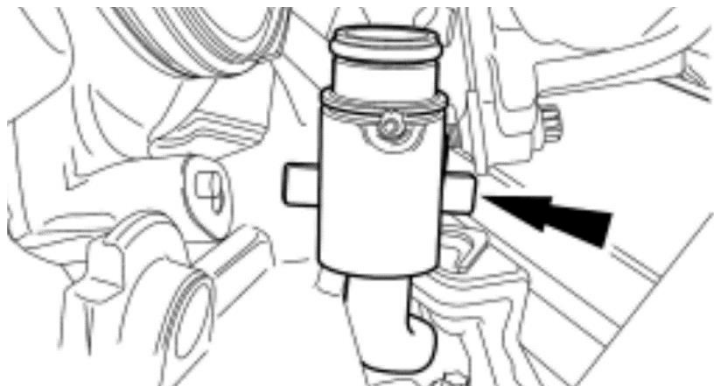
Remove the front mounting bolts.
Left side shown, right side similar.



Remove the turbocharger, Lifting it off the turbocharger oil drain.



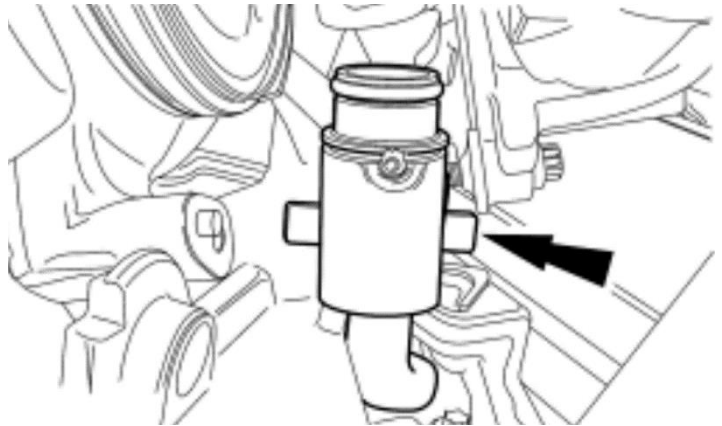
Remove the turbocharger drain tube.
Remove and discard the drain tube O-rings.



Installation

Install new O-rings on turbocharger drain tube using O-ring grease.

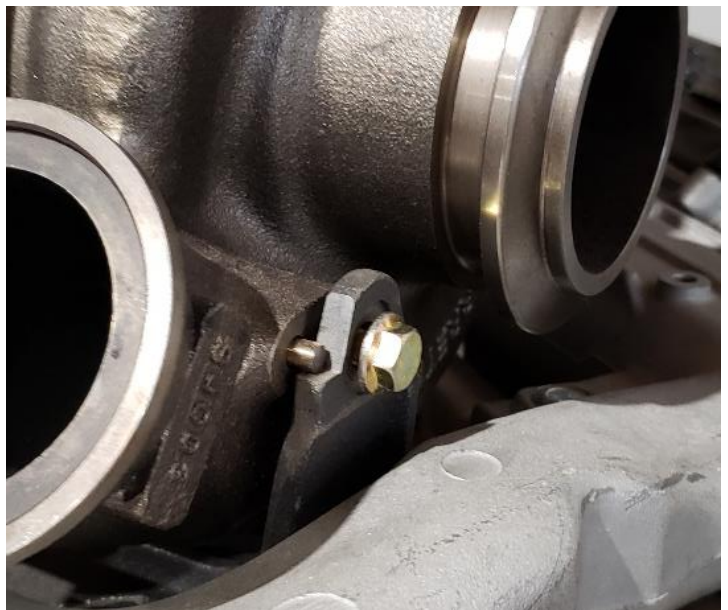
Install the turbocharger drain tube.



Position the turbocharger on the turbocharger pedestal. Make sure the exhaust inlet pipe is correctly aligned to the turbocharger. If it is not, loosen the mounting bracket and reposition the turbocharger and mounting bracket for correct alignment.



For 2003-2004 model year trucks the turbocharger will install directly into the pedestal.



For 2004.5-2007 model years only, use bolts FT-11115722 and bracket 1407556 on the rearmost mounting flange on the turbine housing. Hand thread a bolt through the 1407556 bracket into the pedestal to mount it prior to turbo installation. Remember to torque all mounting bolts after turbo is mounted (23 ft-lbs). Mount the bracket to the turbo using the bolting location as pictured.



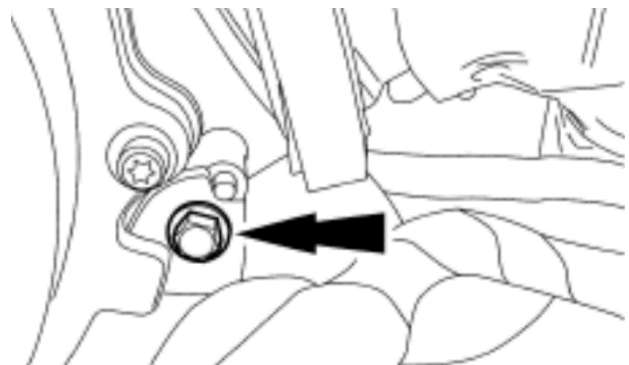
Install the turbocharger and rear mounting bolt.

Tighten to 23 ft-lb (31 Nm)



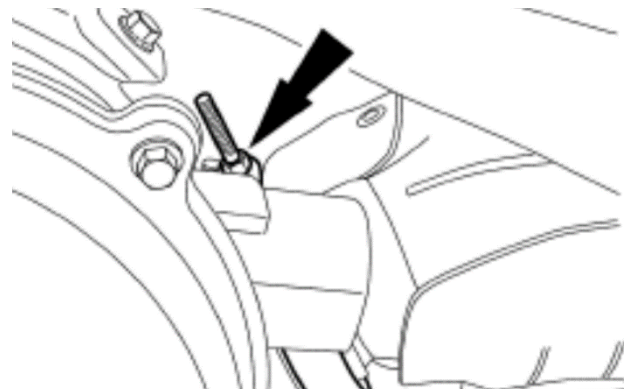
Install the turbocharger front mounting bolts.

Tighten to 23 ft-lb (31 Nm)



Install the turbocharger inlet Marmon clamp.

Tighten to 9 ft-lb (12 Nm)

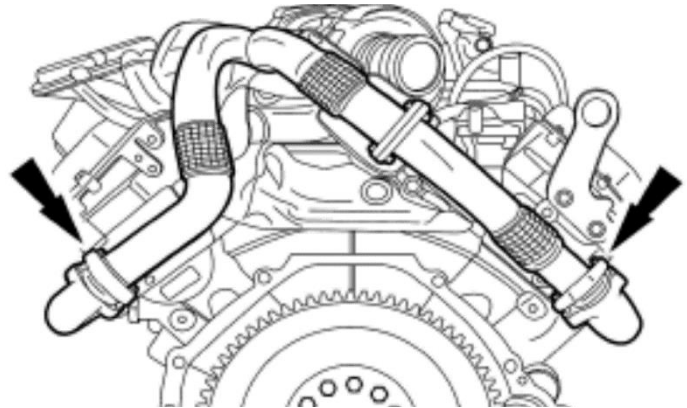


Position the clamp and tighten to specification.

Tighten to 53 in-lb (6 Nm)

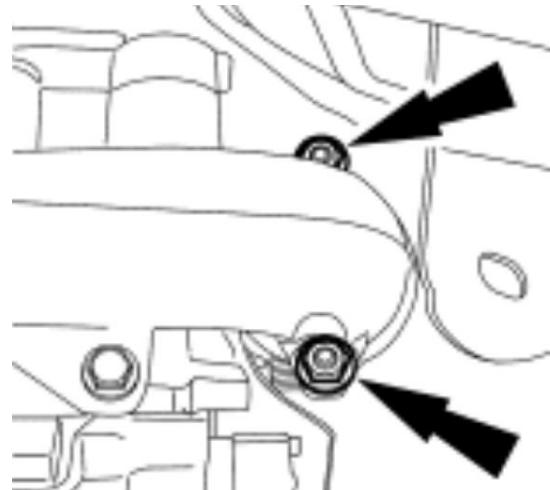


Ensure the exhaust inlet pipe is correctly aligned to the exhaust manifolds. Alternately tighten the nuts to draw the pipe to the exhaust manifold. There should be an equal gap spacing between the pipe flange and the exhaust manifold flange at the top and bottom bolts.



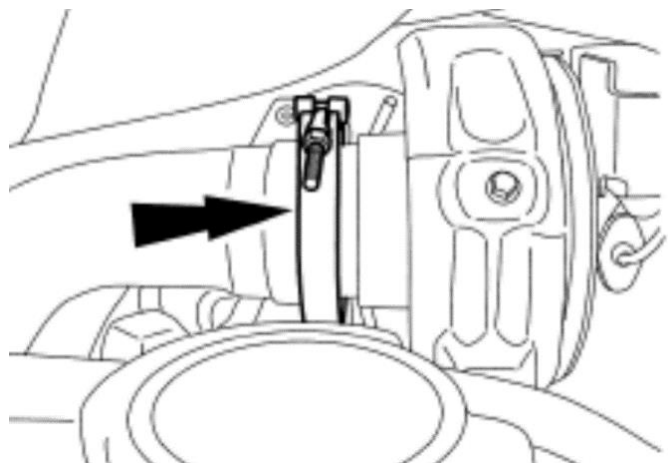
Alternately tighten the exhaust inlet pipe-to-exhaust manifold nuts to specification. Left side shown, right side similar.

Tighten to 20 ft-lb (27 Nm)



Install the turbocharger exhaust Marmon clamp.

Tighten to 89 in-lb (10 Nm)

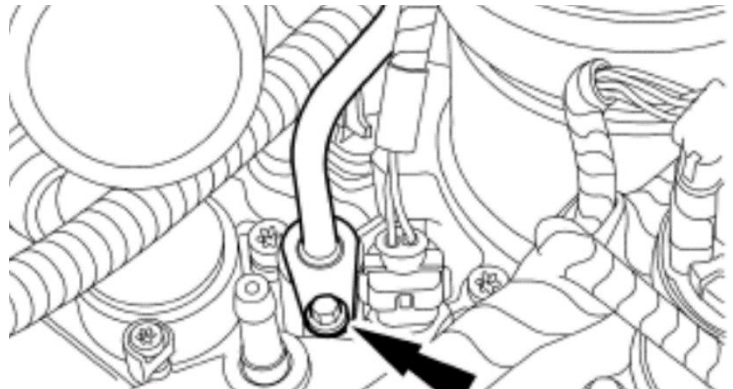


Position the wire retainer and install the bolt.



Install the oil supply tube, position the locking bracket and install the bolt. Use supplied new O-ring and lubricate the O-ring with engine oil prior to installation.

Tighten to 89 in-lb (10 Nm).

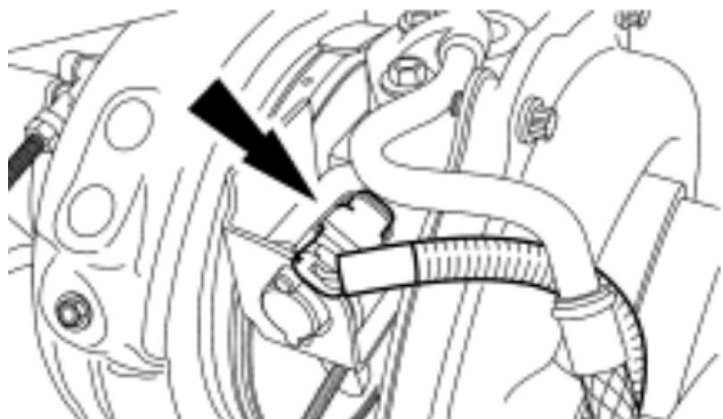


Pre-lubricate the oil inlet hole of the turbocharger assembly with clean engine oil and spin the compressor wheel several times to coat the bearings with oil. Install supplied oil feed tube gasket, oil feed tube and the 2 bolts.

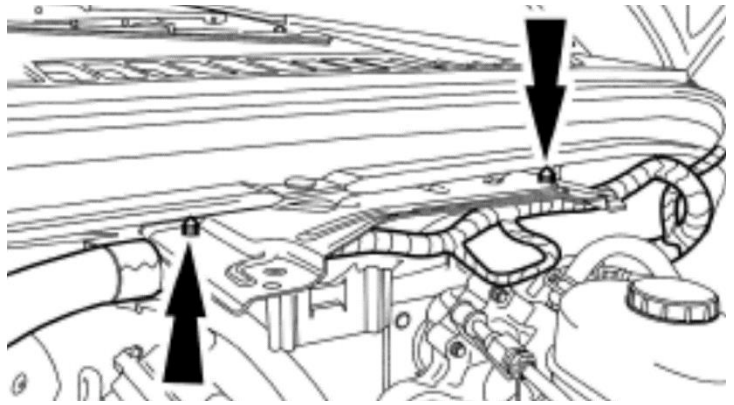
Tighten to 17 ft-lb (23 Nm)



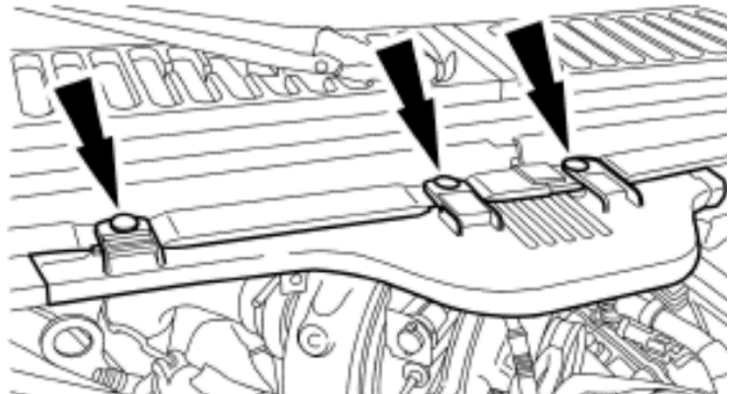
Connect the turbocharger solenoid valve electrical connector.



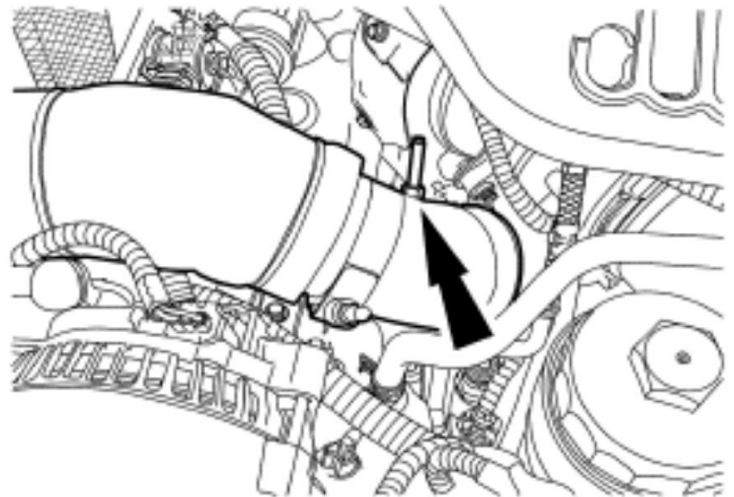
Position the wiring harness and connect the push pins.



Install the push pins and cowl cover.



Connect the CAC inlet pipe. If there is any oil residue, clean both ports and the inside surface of the pipe to prevent the pipe from blowing off. Tighten to 9 ft-lb (12 Nm).



Install turbocharger intake tube.



Relearn Procedure & Solenoid Connector Note

Whenever a turbocharger is installed, disconnect the batteries, wait five minutes, and reconnect the batteries. When the truck is next started, the ECM will trigger a VGT control valve relearn procedure to set the VGT control valve parameters. The relearn procedure can be monitored using a scan tool.

Due to the high heat nature of the solenoid connector location, it is possible that the clip is damaged during the removal and installation process. Be sure to check that the connector is properly installed for solenoid operation.



California EO Label

Install the supplied CARB EO decal under the hood next to the vehicles emissions sticker as shown in the graphic.

