

**(I-00300)**

**BD Engine Brake LIMITED WARRANTY STATEMENT**

BD Engine Brake (the "Seller") warrants the following product(s):

All products manufactured or rebuilt by the Seller are to be free from defects in material or workmanship, which includes but is not limited to Turbochargers, Exhaust and Intake manifolds, Exhaust brakes, Intercoolers, Flex Plates, Transmissions, Torque Converters, Oil pans, Fuel pumps and systems, Electronic monitors and control systems. The Seller warrants to the original buyer of the product (the "Buyer") that it will repair or replace, free of charge, any product which has a defect in material or workmanship within the warranty period described below. Copy of original invoice is required to qualify for warranty.

A defect is defined as a condition within the product that would render the product inoperable under normal conditions of use and service. The Seller's responsibility under this Warranty is limited to the repair or replacement, at the Seller's option, of any warrantable product returned prepaid with complete service history and proof of purchase. A valid proof of purchase is a dated bill of sale or receipt.

A Return Material Authorization (RMA) number, obtained in advance from a customer service representative of the Seller and the dated bill of sale or receipt, must accompany any product returned by the Buyer for warranty determination. The Seller will be the final authority on the approval of all warranty claims hereunder. The issuance of a RMA number does not represent an approval of a warranty claim. BD reserves the right to return or replace Warranty Approved items freight Prepaid. While warranty denied or rejected, claims will be returned freight collect. Accepted warranty products, which have been replaced, will become the sole property of BD.

Until the Seller has approved a warranty claim, the Buyer will be responsible for all costs. Replacement parts and the labor costs incurred by the removal and replacement of the product while performing warranty work will be the responsibility of the Buyer. In no case does the obligation of the Seller exceed the original purchase price of the product as indicated on the original bill of sale or receipt. Under no circumstances will the Seller be liable for any travel time incurred in diagnosis for defects, or any other contingent expenses.

Only once the claim is approved, and depending on if the warrantable product is eligible, labor costs will be considered for the removal and replacement if an eligible part at an hourly rate of \$100.00 per hour. The end user may be responsible for the difference between the BD warranty labor rate and the authorized service dealer's labor rate. BD recommends the end user negotiate these conditions before the service is performed. As well the end user may be responsible for additional freight charges from FOB Abbotsford, BC / Washington.

To the extent permitted by law, the Buyer hereby waives all rights other than those expressly set out herein and acknowledges that this warranty sets out the Buyer's exclusive remedies with respect to products covered by it. This warranty shall not be extended, amended or varied except by written instrument signed by the Seller and the Buyer. If the buyer replaces the product from the Seller with another from another manufacturer, the Buyer-Seller warranty contract is void and the RMA Claim will be terminated. Any claim for remuneration will be rejected.

The Seller will administer warranty requests on products sold by the Seller and not manufactured by the Seller by forwarding claims made by a Buyer under the manufacturer's warranty to the manufacturer. The final disposition of such claims will be made by the manufacturer and ruled by the laws of British Columbia, Canada.

Customer assumes risk in purchasing product with in 30 days may return the product for exchange of other BD products or services only. No cash refunds are available.

The installation of BD aftermarket parts may void the OE warranty. BD is not responsible for OE warranties or how they are administered. Residents of the U.S.A. can reference the Magnuson-Moss warranty act that protects the consumer on the installation of aftermarket parts, please research this act to base your decisions accordingly.

In the case the warranty is denied, BD at its discretion, may offer to refurbish (where applicable) the product at discounted rate for the end user.

**Please refer to Warranty time limitation per product.**

**NOT COVERED UNDER THIS WARRANTY**

This warranty is limited to the original purchaser of the product and is not transferable to subsequent owners. Specifically excluded from this warranty are failures of products caused by misuse, misapplication, negligence of the Buyer, accidents, modification, abuse, improper storage, installation, repair or operation, use of unauthorized parts or other mistreatment of the Buyer or his agent. Any competitive use, sled pulling, drag racing will void warranty on product. A sheared or twisted shaft, broken planetary gear sets, burned clutches, broken drive hubs, sun gear damage, cracked housings are not covered. Damage caused from debris in oil contaminated coolers, improper fluids and filters or damage caused from fuel or air contamination, Biodiesel, low fluid levels are also not covered. This warranty does not cover deterioration of plating, paint or any other coating, linings or parts that are subject to normal wear and tear, such as light bulbs, fuses, bearing wear, seal wear, etc.

**In the case of BD transmissions, a BD torque convertor must be installed at the time of installation of the transmission. Use of a 3<sup>rd</sup> party or OE convertor may invalidate the transmission warranty.**

If product is not installed by a trained and authorized BD dealer, installation facility must prove it is properly tooled and has certified training to have installed or to carry out repair of product.

The Seller also disclaims any liability for incidental or consequential damages including but not limited to, repair labor, rental vehicles, hotel cost or any other inconvenience cost. To the extent permitted by law, this warranty is in lieu of all other warranties or guarantees, either expressed or implied, included the implied warranties of merchantability and fitness for a particular purpose and shall not extend to any Buyer or to any person other than the original purchaser residing within the boundaries of the continental U.S. or Canada. As well the seller is not responsible or obligated to update previously manufactured parts that are currently under the above warranty.

**NOTE THAT THIS GUARANTEE WILL BE VOID IF THE USER BREACHES THE CONDITIONS IN THE SECTION LABELED "NOT COVERED UNDER THIS WARRANTY" AND IS ONLY APPLICABLE ON THE PRODUCTS THE SELLER MANUFACTURES.**

**DISCLAIMER OF LIABILITY**

Other than as expressly set forth herein, the Seller, together with its distributors, jobbers and dealers shall in no way be responsible for the product's proper use and service. In no event shall the Seller be liable for any special, incidental, indirect or consequential damages of any kind or nature, whether or not the Buyer was advised of the possibility of damage, arising or resulting from the use or performance of the product, and the Buyer hereby waives any and all such claims.

The Buyer acknowledges that he/she/it is not relying on the Seller's skill or judgment to select or furnish goods suitable for any particular purpose and that the Seller has no liability that will extend beyond the scope of the limited warranty contained herein, and the Buyer hereby waives all remedies or liabilities, expressed or implied, arising by operation of law or otherwise, (including, without limitation, any obligations of the Seller with respect to fitness for any particular purpose; merchantability; and special, incidental, indirect or consequential damages) or whether or not occasioned by the Seller's negligence.

The Seller disclaims any warranty and expressly disclaims any liability for personal injury or damages related to the Buyer's use of the product. The Buyer acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this Agreement and the Buyer agrees to indemnify the Seller and hold the Seller harmless from any claim related to the product and its use or performance. Under no circumstances will the Seller be liable for any damages, liabilities, costs or expenses incurred as a result of by reason of the use, performance or sale of the product, including without limitation, any damages, liabilities, costs or expenses incurred by reason of the Buyer's negligence related to those uses of the product as a result of the removal of the speed limiter.

The Seller assumes no liability regarding the improper installation or misapplication of the product. It is the installer's responsibility to check for proper installation, and, if in doubt, contact the manufacturer.

**Limited Warranty Details**

Product Name	Parts (Months/Miles) <sup>1</sup>	Labor (Months/Miles) <sup>1,2</sup>	Notes
Torque Converters	36/ 150,000	12/12,000	No Race abuse covered
Transmissions (TowMaster & TorqueMaster)	36/ 150,000	12/ 24,000	No Race abuse or broken shafts covered. Remote filter required for inspection with a cooler flow rate in GPM at Oil/Air transmission cooler outlet. Freight provision allowed.
Transmissions (RoadMaster)	24/ 100,000	12/ 24,000	
Rebuild/Repair Transmission	12/ 24,000	12/ 24,000	Defined as "Cost of Repair" or repaired units that fall outside of the retail warranty period.
Race Transmissions	12/ 24,000	Not Eligible	
Valve / Accumulators Bodies	12/ 24,000	12/ 24,000	
Transmission Pans	36/ 150,000	Not Eligible	
Flex Plates	36/ 150,000	Not Eligible	
Injectors (Mechanical) & Injection Pumps	12/ 24,000	12/ 24,000	VP44/P7100 Race Pumps 90 days parts/No labor coverage
Performance Injector Nozzles (Common Rail)	Not Eligible	Not Eligible	
Common Rail Injectors	24 Months	Not Eligible	Manufacturing and material defects are only covered. Cracks caused by high fuel pressure are not covered. High Return flow not covered after 12 months on Performance Injectors. For No Hassle Eligibility, see <a href="https://us.bddiesel.com/pages/extended-warranty">https://us.bddiesel.com/pages/extended-warranty</a>
	24 Months + No Hassle	Not Eligible	
Performance Tuners and Chips	Manufacturer <sup>3</sup>	Not Eligible	
BD Electronic Modules (TSB, VVB, etc)	24/ 48,000	Not Eligible	
Intake / Exhaust Manifolds	36/ 75,000	Not Eligible	
Exhaust Up pipes	12/24,000	Not Eligible	Surface rust not eligible.
Exhaust Kits	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Hoses / Clamps	12/ 24,000	Not Eligible	
BD Xtruded Transmission Cooler	12/ 24,000	Not Eligible	
Manual Transmission Clutches	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Short Shifters	12/ 24,000	Not Eligible	
Engine / Head Stud kits	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Positive Air Shutoff / Electronic Positive Air Shutoff	24/ 24,000	Not Eligible	
Exhaust Brakes	24/ 24,000	12/ 24,000	
Gauges and Mounts	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Screamer Turbos	24 Months	Not Eligible	24 Month warranty effective for sales after 11/01/2024
Performance/OEM Turbos	12 Months	Not Eligible	
Remanufactured ISX Turbos	90 Days	Not Eligible	See I-00437 for more details. For 1045880, see OEM Turbos.
Auxiliary Fuel Pumps	12/ 12,000	Not Eligible	
BD FICM	12 Months	Not Eligible	
Fuel Control Plate/Pin (VE & P7100)	24 Months	Not Eligible	
Distributed Product (Not Manufactured by BD)	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Replacement Components	12 Months	Not Eligible	
Transmission Rebuild/Build It Kits	12 Months	Not Eligible	Material Defects Only
Steering & Suspension Parts (Track Bar, Caster kit, Steering Stabilizer, Bars and links)	Limited Lifetime (12 months if not registered)	Not Eligible	Must register online within 30 days of purchase to be eligible. See website <a href="https://warranty.bddiesel.com/limited-lifetime/">https://warranty.bddiesel.com/limited-lifetime/</a> for details. Excludes normal wear & tear (boots, bushings, joints, bearings) and improper use.
Venom/FlowMAX Fuel Lift Pump Kit	Limited Lifetime (12 months if not registered)	Not Eligible	Must register online within 30 days of purchase to be eligible. See website <a href="https://warranty.bddiesel.com/limited-lifetime/">https://warranty.bddiesel.com/limited-lifetime/</a> for details. Excludes normal wear/service items (hose, filters) and improper use.

A Return Material Authorization (RMA) number, obtained in advance from a customer service representative of the Seller and the dated bill of sale or receipt, must accompany any product returned by the buyer for warranty determination.

<sup>1</sup> Warranty is based on whichever occurs first (Months or Mileage).

<sup>2</sup> Prior approvals must be given to qualify for labor reimbursement.

<sup>3</sup> As per Manufacturer's warranty



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**CARB E.O.  
D-553-19**

1047621  
Pictured\*






# Ford 11-16 3.5L Screamer

Screamer Turbos for 2011-2016 Ford F150 3.5L

1047620	<b>1047611</b>	2011-2012 Ford F150 3.5L EcoBoost, Driver's Side
	<b>1047612</b>	2011-2012 Ford F150 3.5L EcoBoost, Passenger's Side
1047621	<b>1047616</b>	2013-2016 Ford F150 3.5L EcoBoost, Driver's Side
	<b>1047617</b>	2013-2016 Ford F150 3.5L EcoBoost, Passenger's Side




# Kit Contents

## 1047611 (2011-2012) Driver Side




	<p><b>1403019</b></p> 	<p><b>1403018</b></p> 
<p>11-12 Screamer, Driver Side</p>	<p>Stud; Ford Downpipe</p>	<p>Bolt; Tri-Lobe M8x1.25-30mm</p>
<p><b>Qty: 1</b></p>	<p><b>Qty: 2</b></p>	<p><b>Qty: 3</b></p>

<p><b>FT-90702</b></p> 	<p><b>GS33741</b></p> 	
<p>Nut; M10x1.5 Flange <b>Qty: 2</b></p>	<p>Gasket Kit; Driver Side <b>Qty: 1</b></p>	<p>Plastic Syringe <b>Qty: 1</b></p>




## 1047612 (2011-2012) Passenger Side

	<p><b>1403019</b></p> 	<p><b>1403018</b></p> 
<p>11-12 Screamer, Passenger Side</p>	<p>Stud; Ford Downpipe</p>	<p>Bolt; Tri-Lobe M8x1.25-30mm</p>
<p><b>Qty: 1</b></p>	<p><b>Qty: 2</b></p>	<p><b>Qty: 3</b></p>

<p><b>FT-90702</b></p> 	<p><b>GS33742</b></p> 	
<p>Nut; M10x1.5 Flange <b>Qty: 2</b></p>	<p>Gasket Kit; Passenger Side <b>Qty: 1</b></p>	<p>Plastic Syringe <b>Qty: 1</b></p>

<b>1047616 (2013-2016) Driver Side</b>		
	<b>1403019</b>	<b>1403018</b>
		
13-16 Screamer, Driver Side <b>Qty: 1</b>	Stud; Ford Downpipe <b>Qty: 2</b>	Bolt; Tri-Lobe M8x1.25-30mm <b>Qty: 3</b>

<b>FT-90702</b>	<b>GS33741</b>	
		
Nut; M10x1.5 Flange <b>Qty: 2</b>	Gasket Kit; Driver Side <b>Qty: 1</b>	Plastic Syringe <b>Qty: 1</b>

<b>1047617 (2013-2016) Passenger Side</b>		
	<b>1403019</b>	<b>1403018</b>
		
13-16 Screamer; Passenger Side <b>Qty: 1</b>	Stud; Ford Downpipe <b>Qty: 2</b>	Bolt; Tri-Lobe M8x1.25-30mm <b>Qty: 3</b>

<b>FT-90702</b>	<b>GS33742</b>	
		
Nut; M10x1.5 Flange <b>Qty: 2</b>	Gasket Kit; Passenger Side <b>Qty: 1</b>	Plastic Syringe <b>Qty: 1</b>

# Table of Contents

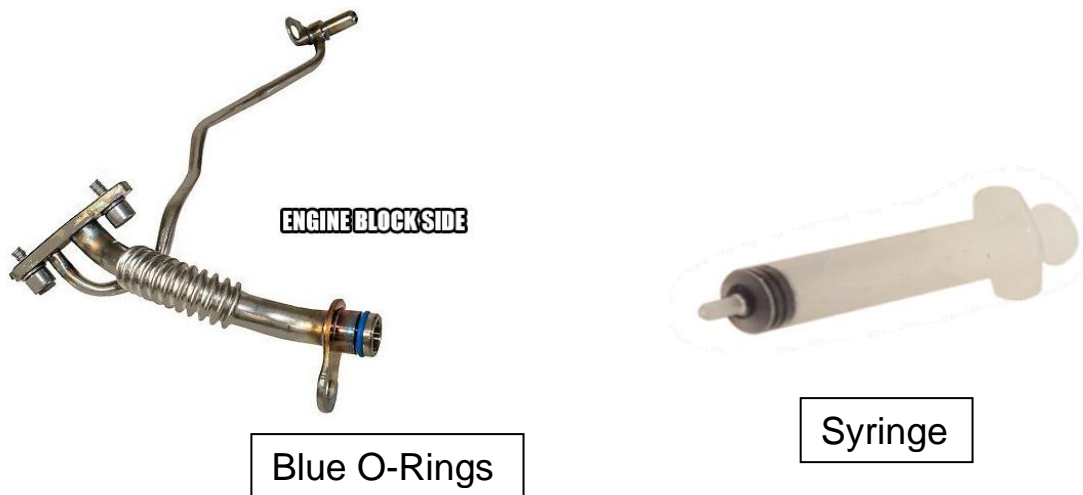
- Kit Contents .....2
- Table of Contents.....4
- Introduction .....4
- Preface .....4
- Tools Required for Installation .....4
- Installation.....5
  - Turbo Removal .....5
  - Installation .....14

# Introduction

The Screamer turbo for the 2011-2016 Ford F150 3.5L EcoBoost provides a Raptor-sized upgrade. A larger compressor wheel provides higher mass airflow which can provide more power for your truck while maintaining reliability for years to come.

# Preface

The kit contains several items that may cause confusion:



The provided blue O-rings are intended for the oil drain tube, while it is not necessary to replace this part, stock OEM O-rings can leak, and we have provided this part if you wish to replace the O-rings while installing this kit.

One or two syringes are provided within the kit (depending on which kit was purchased) to pre-lube the turbochargers prior to installation. This is intended to eliminate the small amount of time that the turbo will run dry during the first start.

# Tools Required for Installation

- In-lb torque wrench
- Ft-lb torque wrench
- 3/8” quick disconnect tool
- Torx heads (variety)
- High-temperature nickel anti-seize
- Jackstand

## Installation

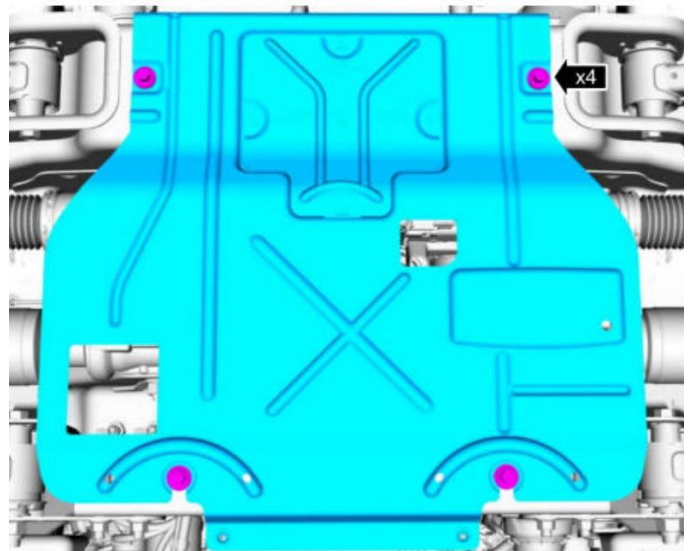
### Turbo Removal

Secure the vehicle by blocking wheels and setting on jack stands or hoist.

Disconnect the vehicle battery before installation.



If equipped, remove the retainers and the transmission housing cover. Remove the bolts and the skid plate/splash shield.



Remove the wheels and fender liners.

Note: Be sure to unclip all electrical connectors from the inner side of the fender liner before removing them

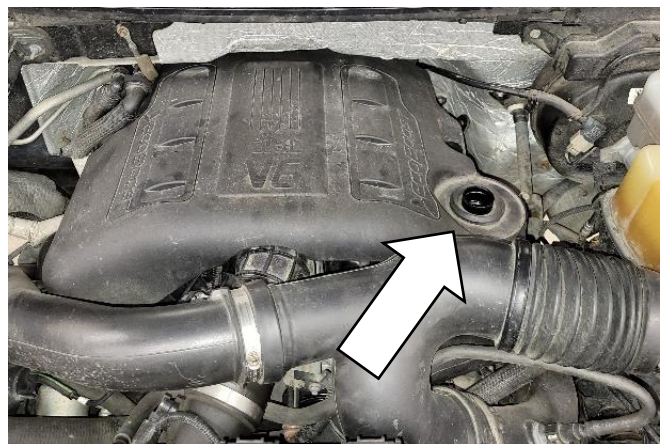


Locate the radiator drain on the passenger side of the radiator and drain the coolant from the system.



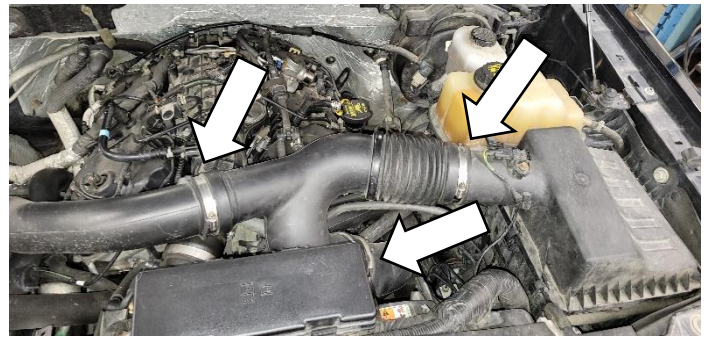
Remove the oil filler cap and remove the engine cover.

Reinstall the oil filler cap.



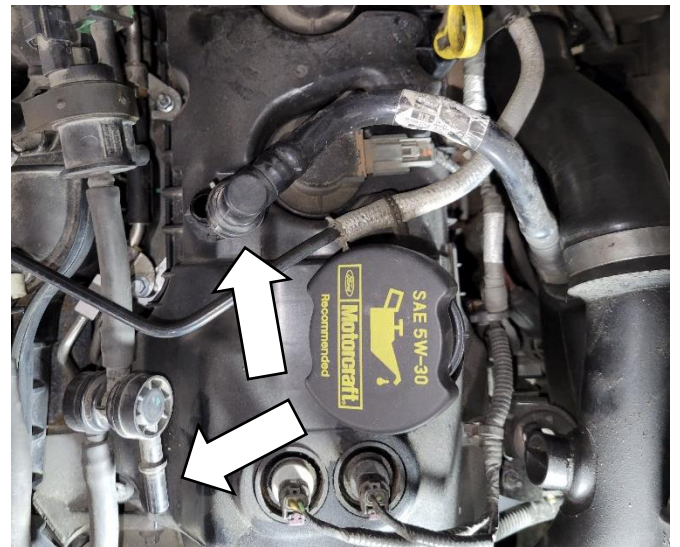
Disconnect the MAF sensor in the intake pipe.

Loosen the clamps to the lid and pipes and remove the Upper Air Cleaner Lid and Y-Pipe.

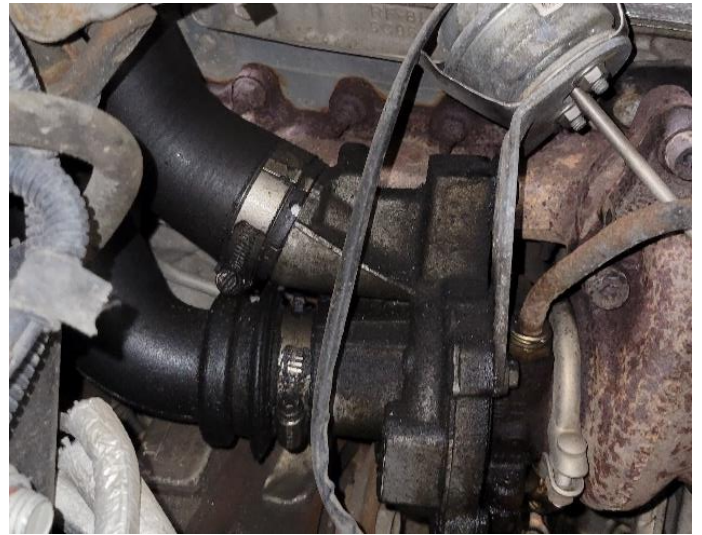


Disconnect the PCV pressure sensor electric connector, PCV tube quick connect couplings, and remove the PCV tube.

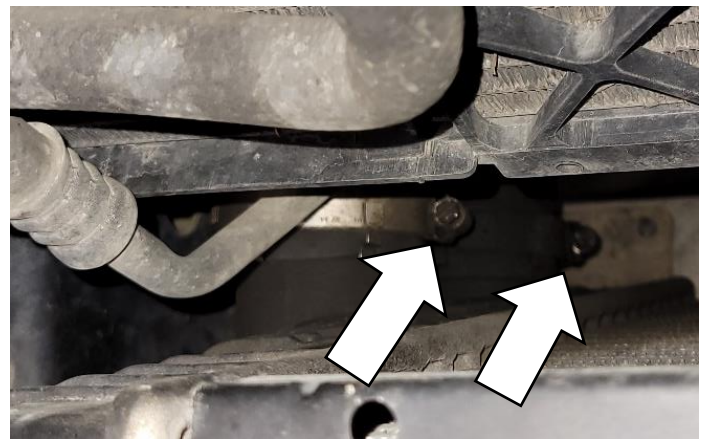
Disconnect the quick-release couplings and the turbo bypass tube.



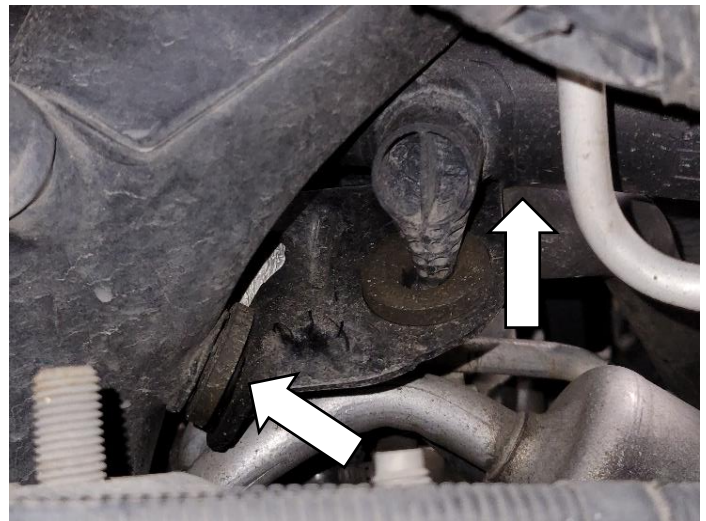
Loosen the clamps on the pipes that mount to the turbocharger and gently remove the hose from the compressor cover.



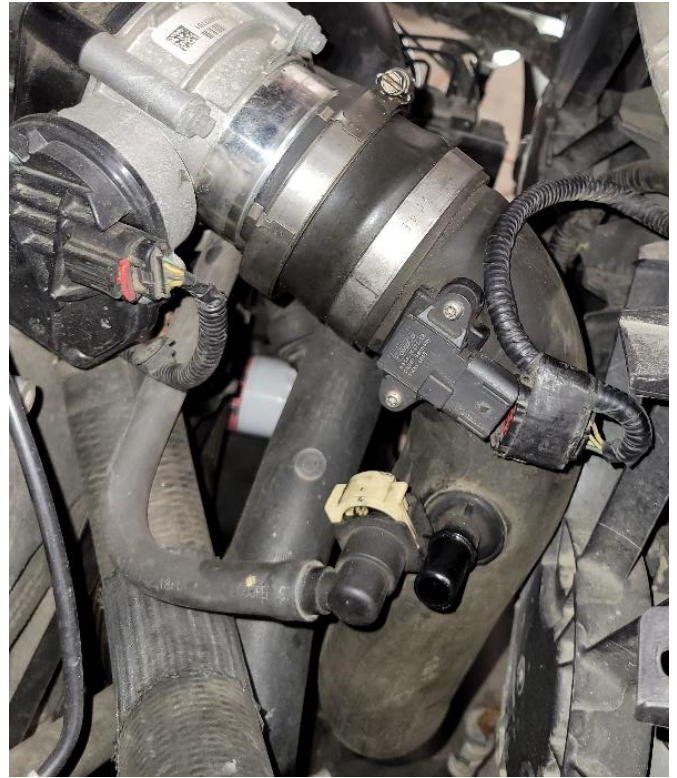
Loosen the intercooler to inlet pipe clamps located between the front bumper and radiator.



Release the turbo inlet & outlet tube from the bracket grommet and remove the inlet & outlet tube.



Disconnect the boost sensor and disconnect the pipe from the throttle valve and remove to allow for removal of the driver-side turbocharger outlet pipe.

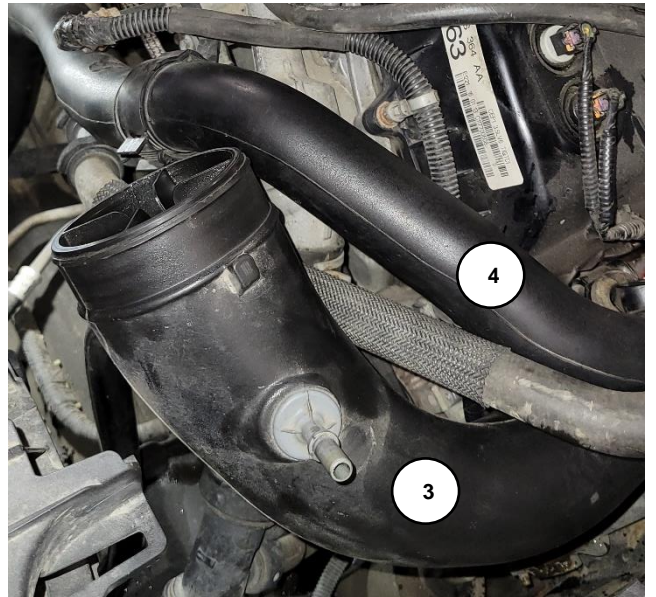
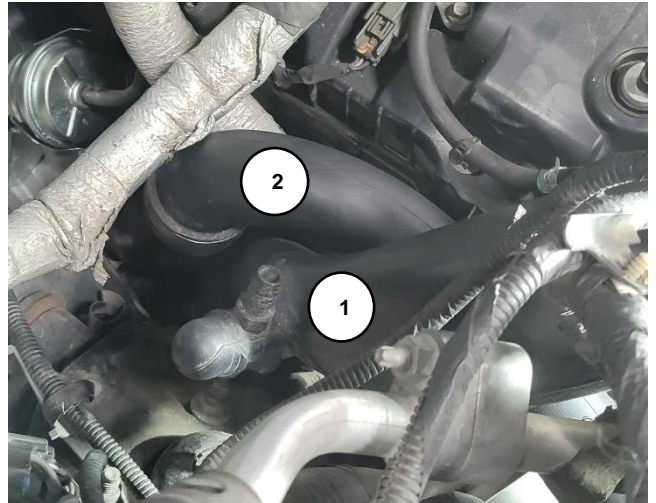


Disconnect the vacuum line from the passenger-side turbocharger outlet pipe and remove the pipe.



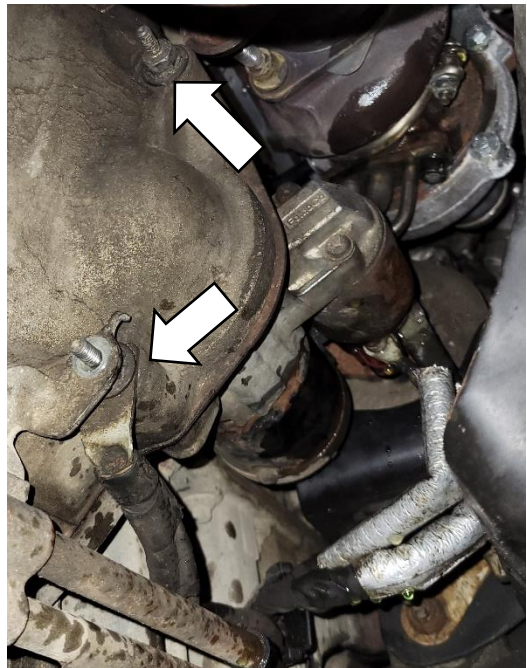
With all the clamps loose, follow the process below for removal;

- Remove Passenger Inlet pipe (1)
- Remove Passenger Charge pipe (2)
- Shift the Driver charge pipe away from turbo
- Remove Driver Inlet pipe (3)
- Remove Driver Charge pipe (4)

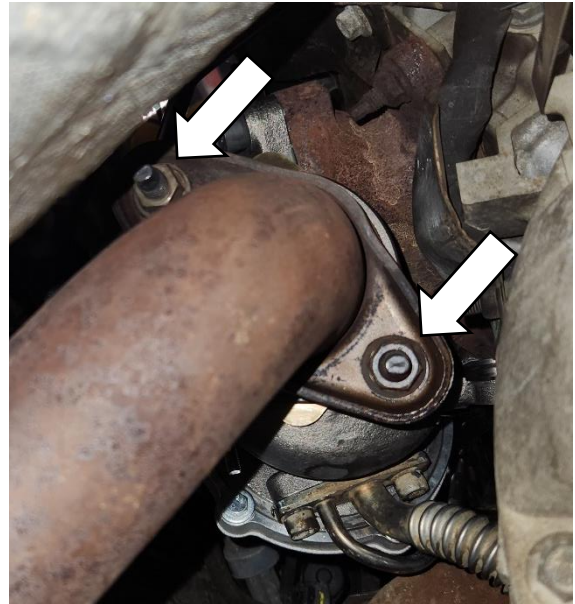


On the passenger side of the engine bay, Remove the nut securing the transmission cooler line support then slide support off of stud.

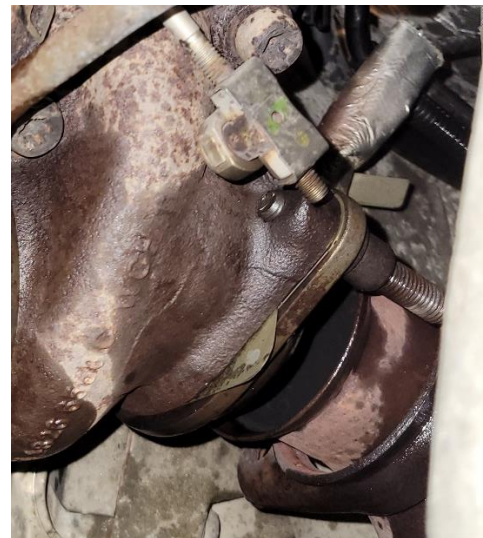
Remove the 2 bolts holding the starter on and shift the starter position to allow for access to the turbocharger for removal.



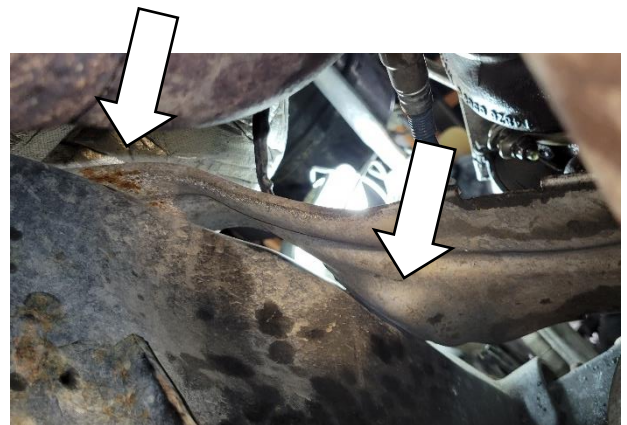
Remove and discard the 2 catalytic converter-to-turbocharger mounting flange nuts on both sides of the vehicle.



With the exhaust disconnected, adjust the exhaust rearward to ensure clearance between the turbocharger flanges and the downpipes.



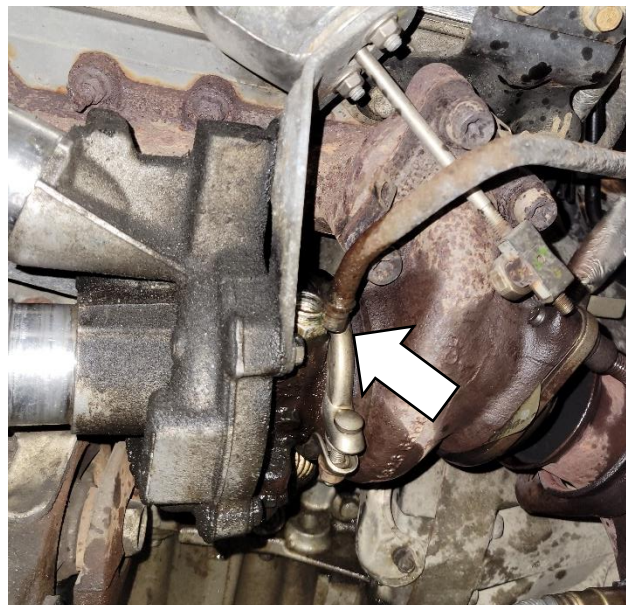
On the driver side of the frame, remove the 2 heat shield bolts and the heat shield.



Remove the retaining clip in the coolant fitting on the top of the turbo and disconnect the coolant supply tube at the turbocharger.

Repeat on the passenger side.

**Note:** The passenger side upper coolant tube needs to be completely removed at the turbo and rear of the engine block. Remove clips at either end.

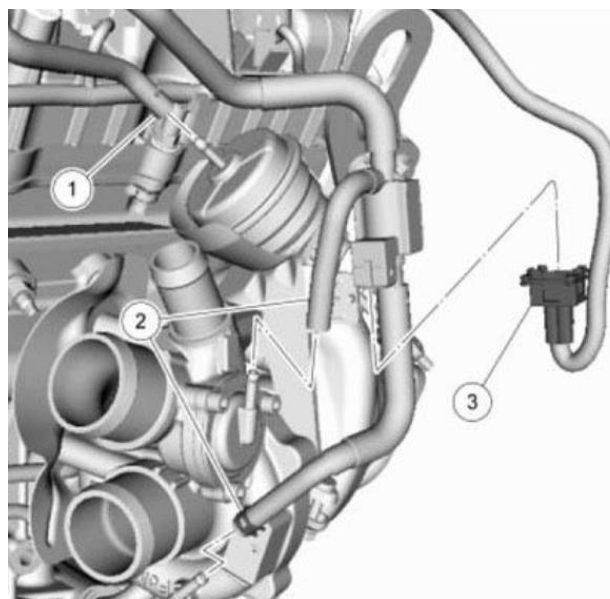


### 2011-2012 Turbocharger

Disconnect the turbocharger bypass valve electrical connector

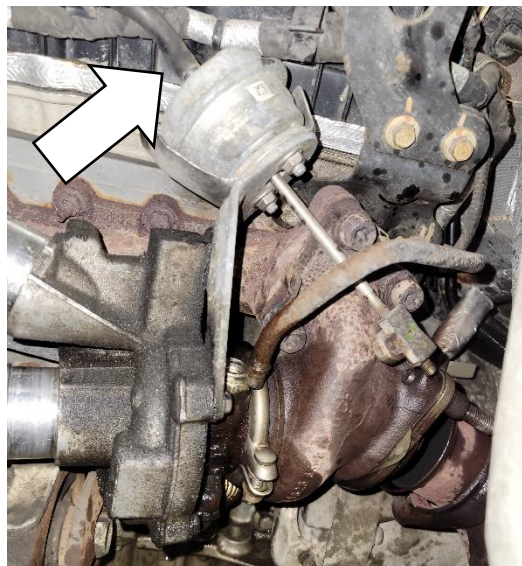
Disconnect the wastegate hose and the 2 bypass vacuum hoses

Remove the bypass valve from its bracket and position.



### 2013-2016 Turbocharger

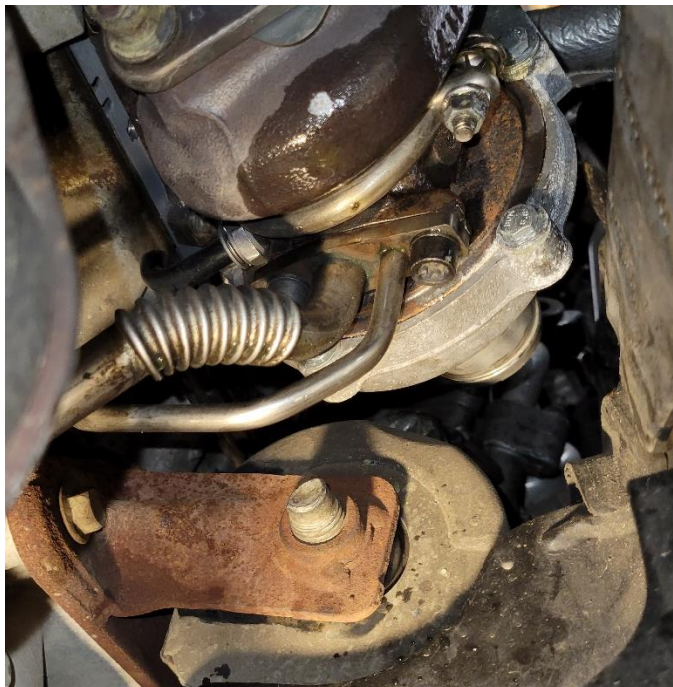
Disconnect the wastegate hose.



Remove the 2 turbocharger center housing bolts for the oil return tube.

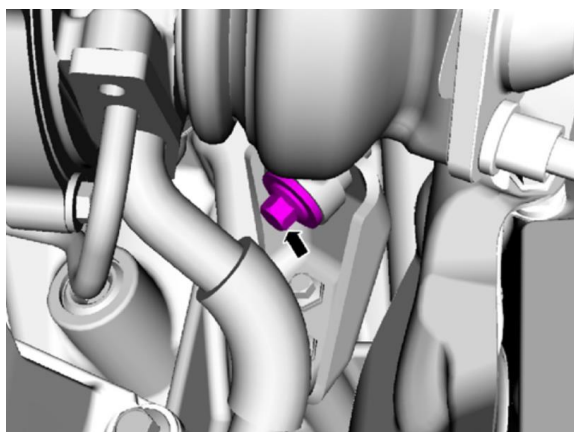
Remove and discard the oil return tube assembly gasket.

**Note:** Cover the oil drain assembly as the coolant line on the side of the turbo will drain onto the flange once disconnected.



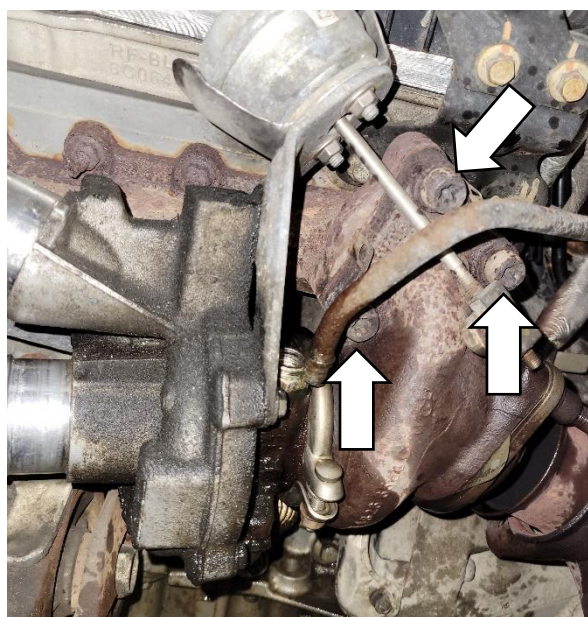
### 2011-2012 Trucks Only

Remove the turbocharger bracket bolt.



Remove the retaining clip on the coolant fitting on the inside turbo. Disconnect the coolant return tube at the turbo. Remove the 3 turbo mounting bolts and the turbo.

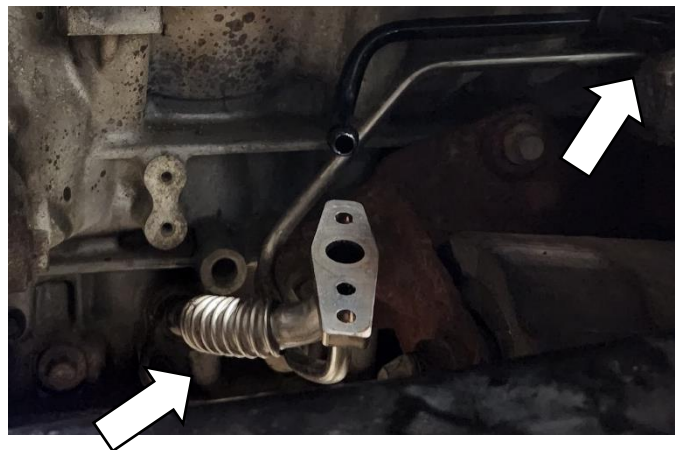
Discard the turbo exhaust manifold gasket.



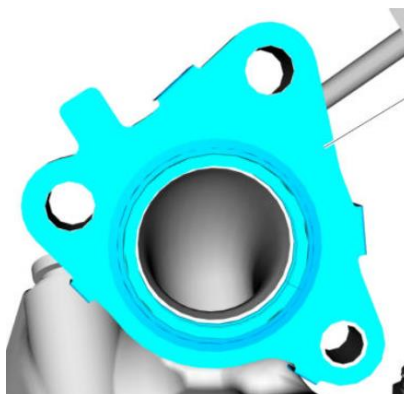
Remove the 2 remaining bolts holding the oil drain assembly.

Remove the clip holding the oil feed at the side of the engine block and remove the oil return tube assembly.

Remove and discard the oil return tube O-ring.

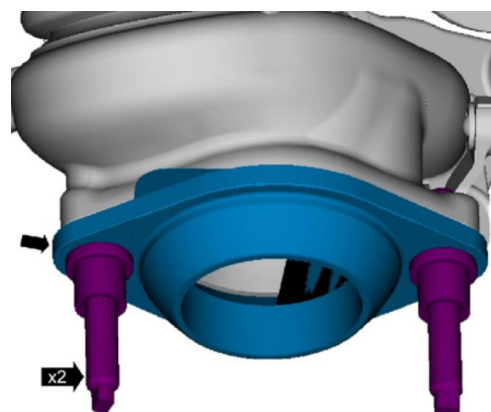


Remove and discard the turbo gasket.



Remove the 2x turbo exhaust flange stud bolts and exhaust flange.

Discard the 2x turbo exhaust flange stud bolts and the exhaust flange gasket.



Repeat the removal steps on the opposite turbocharger.

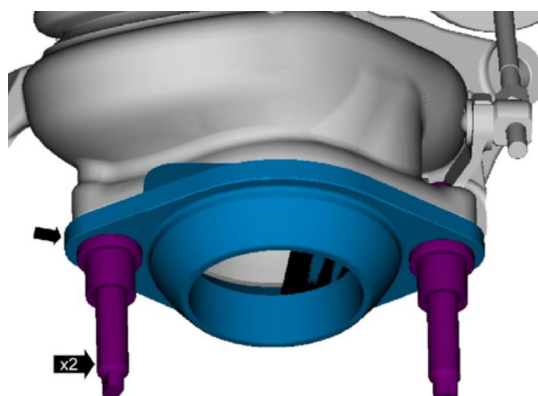
## ***Installation***

Thoroughly clean and chase turbine housing threads.

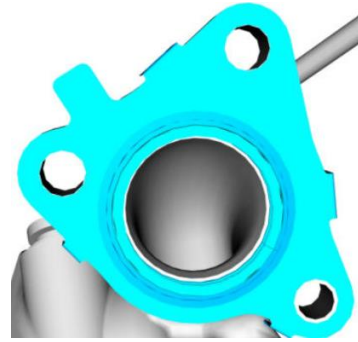
Apply high-temperature nickel anti-seize to the turbo exhaust flange stud bolts.

Install the turbo exhaust flange gasket, flange, and the 2 new stud bolts.

Torque to **40 Nm (30 lb-ft)**.



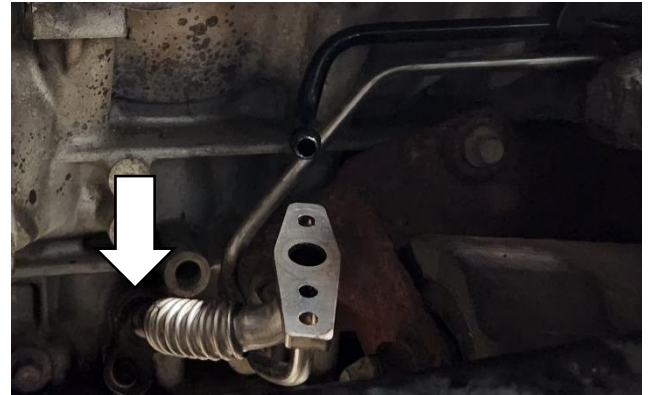
Install the new turbo gasket onto the turbo flange.



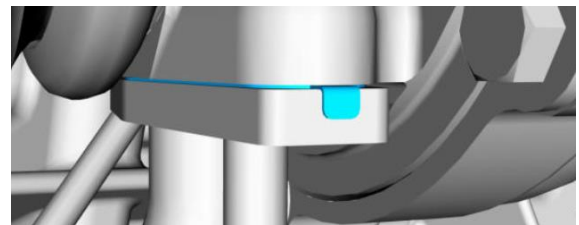
Install the new oil return tube o-ring and install the oil return tube assembly. Reinstall retaining clips.

**Note:** Apply clean engine oil to the O-ring and cylinder block bore.

**Note:** Ensure that the oil supply tube is positioned in the cylinder block while installing the return tube assembly.



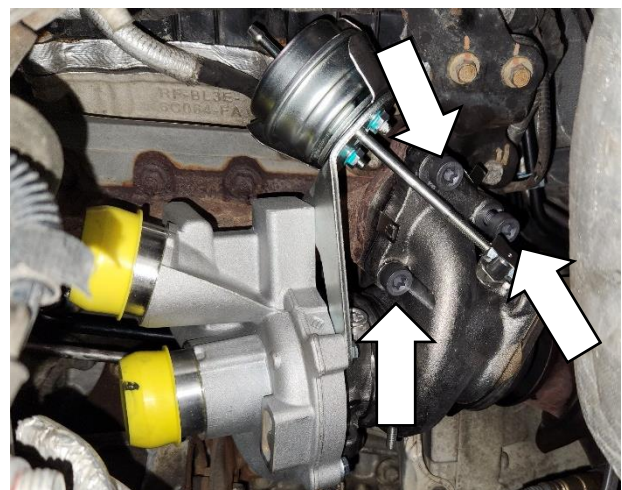
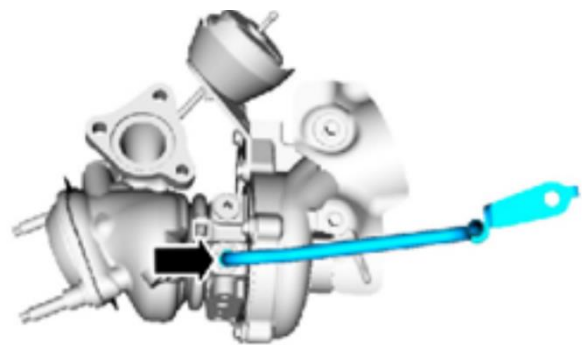
Install the new turbocharger oil inlet gasket.



Install the new turbo into position with the 3 turbo mounting bolts into the manifold.

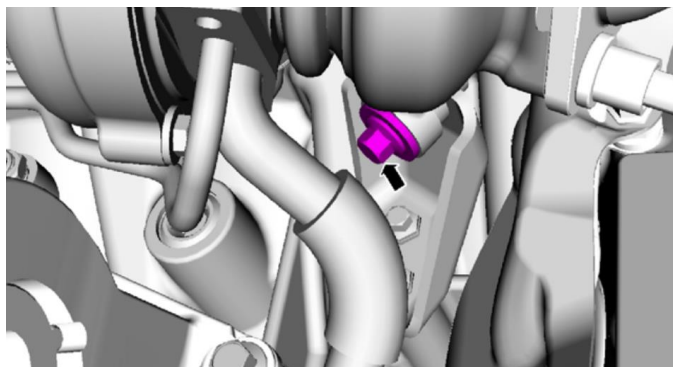
Be sure to have the inner coolant line in position prior to installation with retaining clips as the line is held into position by the turbocharger.

Tighten to **32 Nm (24 lb-ft)**.



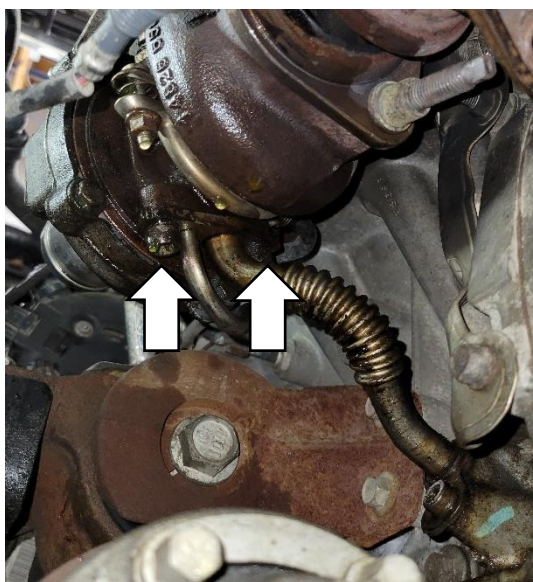
## 2011-2012 Trucks Only

Install the turbo bracket bolt and torque to **28 Nm (21 lb-ft)**.



Install the 2 oil inlet/drain bolts. Tighten in the following stages:

- Install oil inlet side bolt halfway.
- Install the oil drain side bolt and tighten it to **8 Nm (71 in-lb)**.
- Tighten the oil drain side bolt an additional **30 degrees**.
- Tighten the oil pressure tube side bolt to **8 Nm (71 in-lb)**.
- Tighten the oil pressure tube side bolt an additional **30 degrees**.

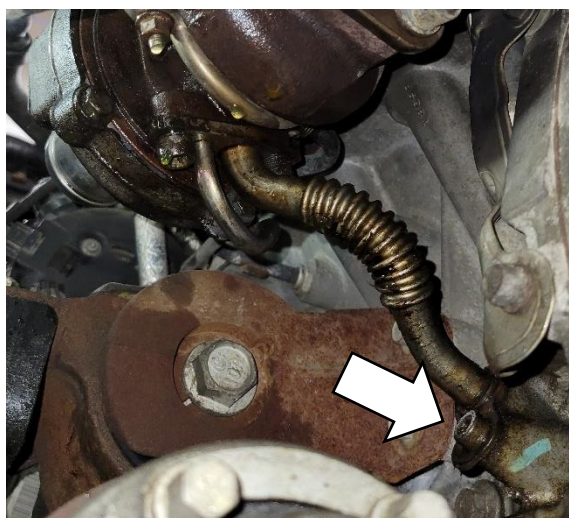


Install the oil return tube bolt at the cylinder block.

- Tighten to **10 Nm (89 in-lb)**.
- Tighten an additional **45 degrees**.

Install the oil supply tube bracket and bolt.

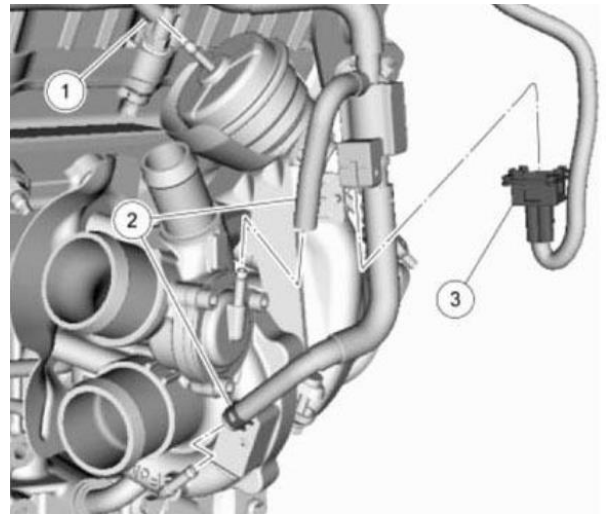
- Tighten to **10 Nm (89 in-lb)**.
- Tighten an additional **45 degrees**.



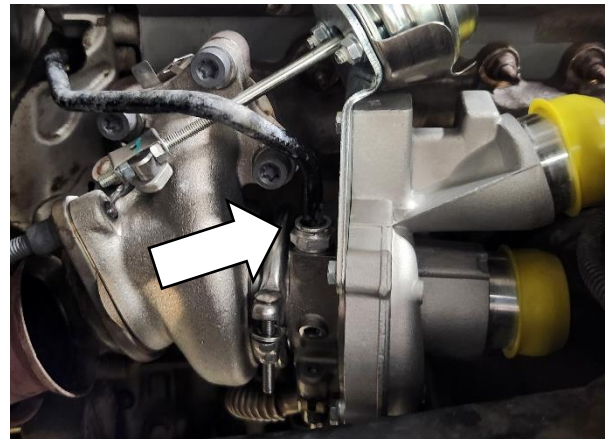
## 2011-2012 Turbocharger Only

Connect the 2 bypass vacuum hoses (2) and the wastegate hose (1).

Connect the bypass valve electrical connector (3).



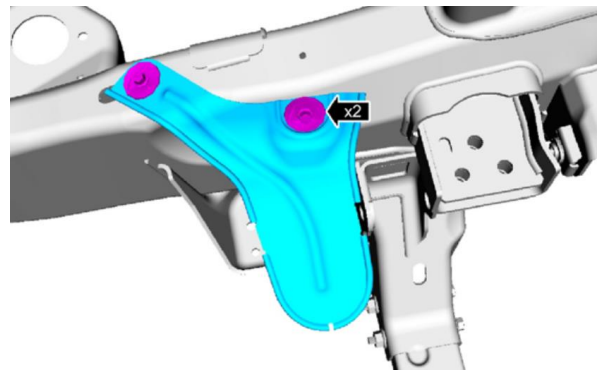
Connect the upper coolant supply tubes with retaining clips.



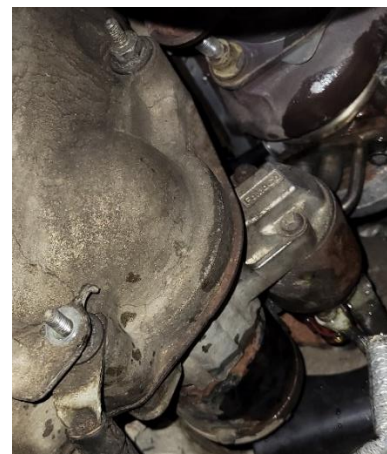
Repeat installation on the opposite turbocharger.

If equipped, install the exhaust system heat shield and the 2 heat shield bolts.

Torque to **20 Nm (177 in-lb)**.



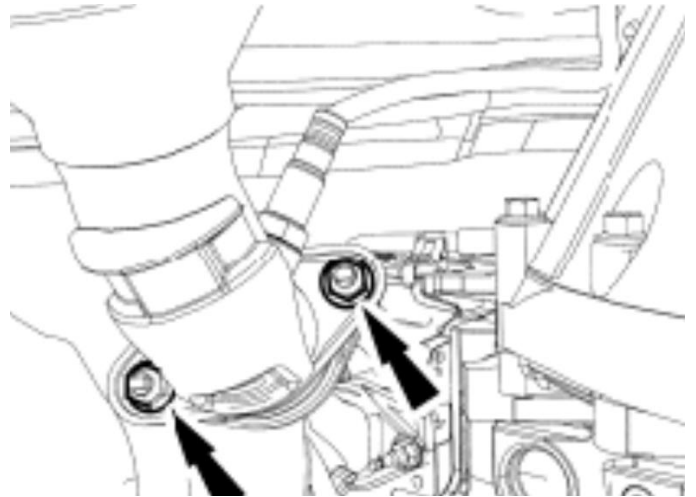
Reinstall the starter and trans cooler line support into the transmission.



Slide exhaust forward into position.

Loosely install the turbocharger flange to the downpipe with supplied nuts. Tighten in the following sequence.

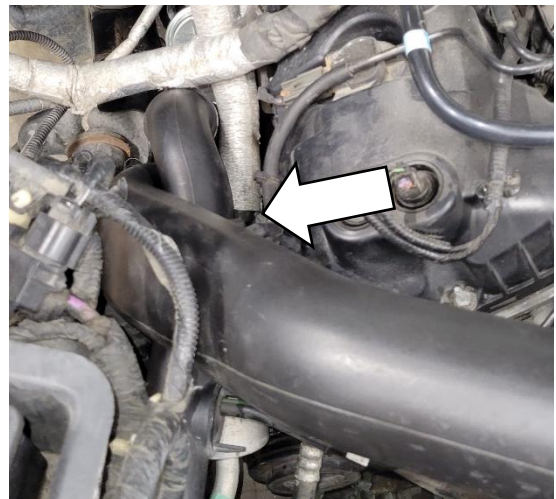
- Snug the inner nut
- Tighten the outer nut to **40 Nm (30 lb-ft)**
- Tighten the inner nut to **40 Nm (30 lb-ft)**



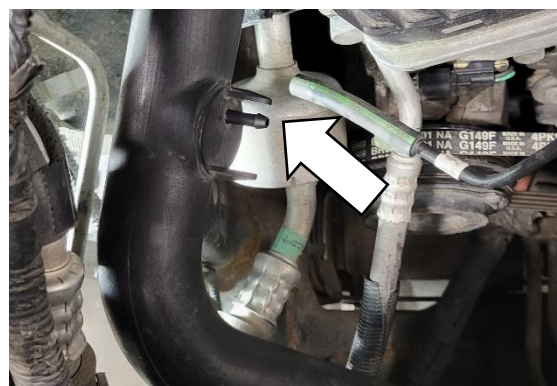
Install the RH turbo outlet pipe to the turbo and attach it to the mounting bracket.



Install the RH turbo inlet pipe to the turbo and attach it to the mounting bracket.



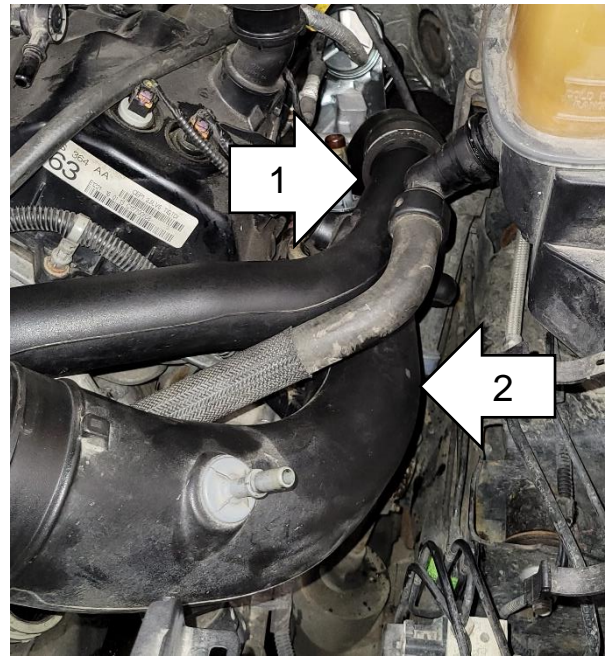
Connect the turbo inlet pipe hose to the RH inlet pipe.



First, Lay the RH turbo outlet tube into place.

Secondly, install the turbo inlet tube and insert the inlet tube into the turbo inlet tube bracket grommet.

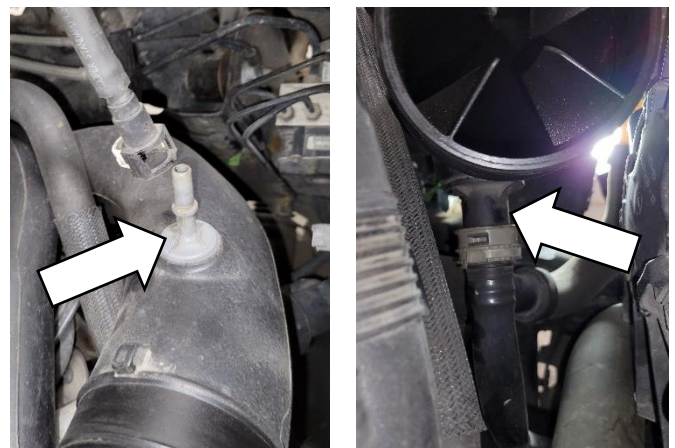
Finally, install the turbo outlet tube onto the turbo and insert it into the bracket mount.



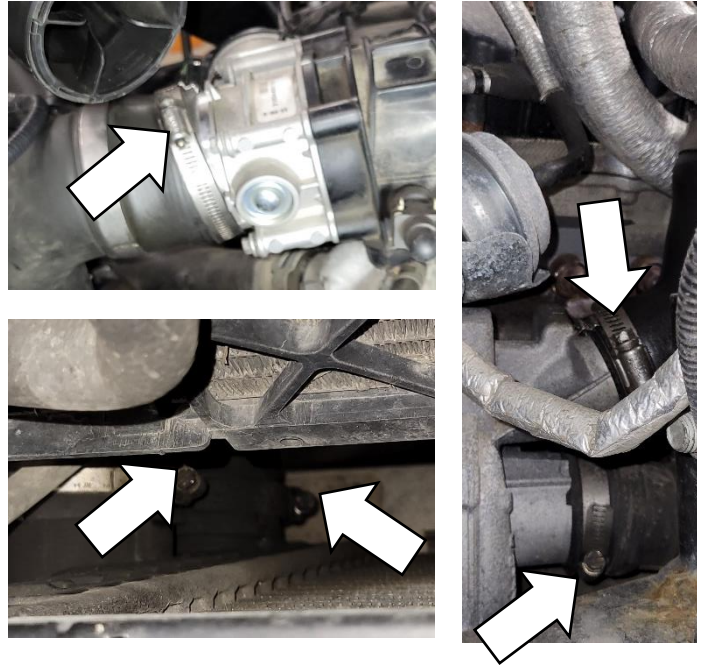
Connect the PCV pressure sensor electric connector, PCV tube quick connect couplings, and install the PCV tube.



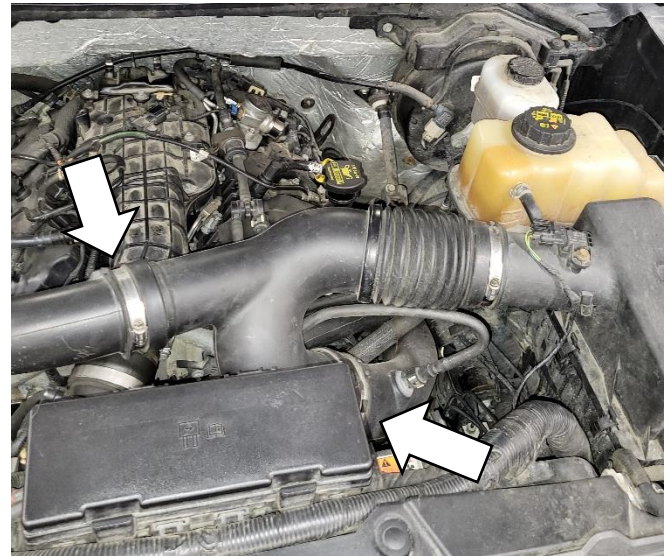
Connect the quick-release couplings and the turbo bypass tube.



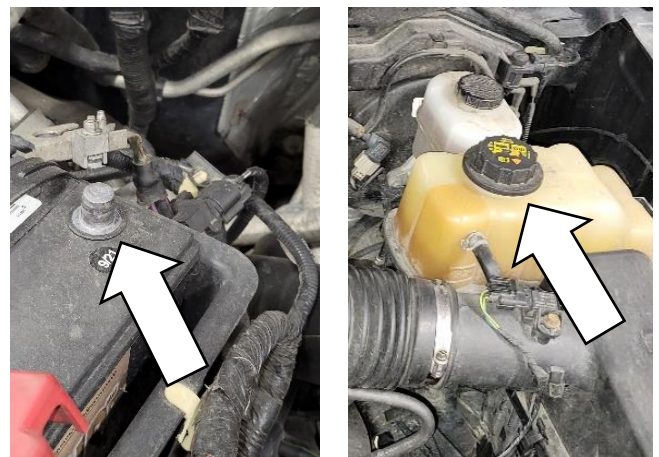
Connect CAC pipes to CAC. Tighten clamps at CAC and Turbos. Install CAC pipe from CAC to the intake manifold and tighten. Connect boost sensor to harness.



Install the Upper Air Cleaner lid and Y-Pipe to the turbo inlet pipes. Tighten all intake connections. Connect MAF sensor to harness.



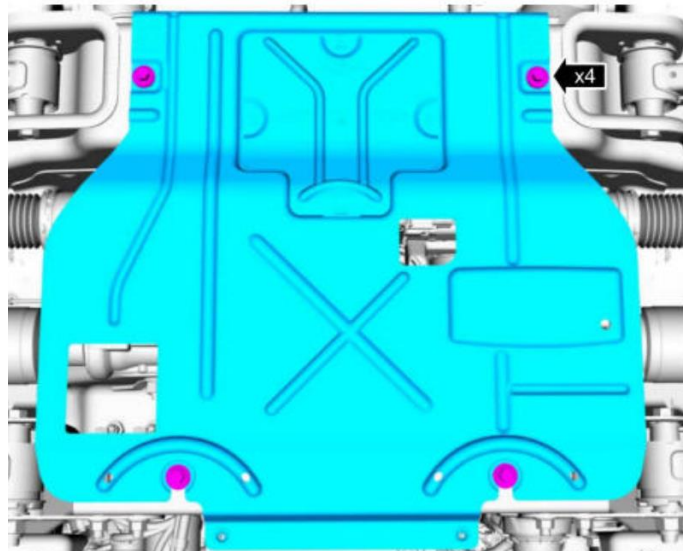
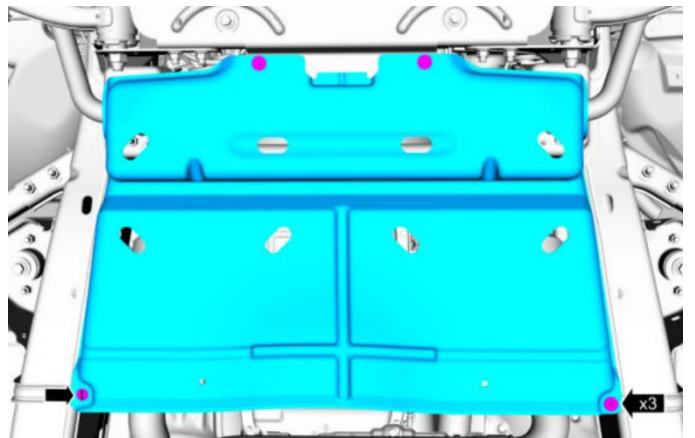
Fill the engine cooling system and connect the vehicle battery.



Reinstall fender liners and wheels.



Reinstall the splash shield and skid plate.



Start and idle to let the oil pressure build. Warm up to normal operating temperature and check for leaks. Road test and recheck for leaks.

Installation is complete.

## ***EO Decal Installation (California Customers)***

Install the supplied CARB EO decal under the hood next to the vehicle's emission sticker as shown in the graphic.

