



Up Pipe Kit for Ford 6.4L

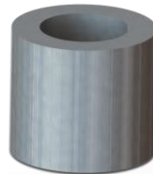
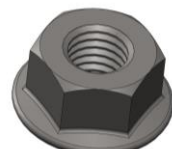
Ford Powerstroke 2008-10 Models

P/N# 1041481

PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

K I T C O N T E N T S :

Please check to make sure that you have all the parts listed in this kit **before** you start the disassembly of your truck.

1403116		1300131		1403115	
					
Up Pipe Passenger Side		Tie Wrap (Medium)		Up Pipe Driver Side	
Qty: 1		Qty: 2		Qty: 1	
MS19312				B32256	
					
Gasket Exhaust Manifold				Gasket (Turbo-Up pipe)	
Qty: 1				Qty: 2	
1130020	1403119		1403118		
					
1/4" NPT Plug	Hex Manifold Spacer Short		Hex Manifold Spacer Long		
Qty: 1	Qty: 16		Qty: 3		
1900013		FT-11116340		1900015	1900014
					
Flange bolt 60 mm Long		Flange bolt 25mm		Flange bolt 30mm	Flange nut
Qty: 4		Qty: 6		Qty: 1	Qty: 4

BD Engine Brake Inc.

Plant Address: 33541 MacLure Rd. Abbotsford, BC, Canada V2S 7W2

U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

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1403121		1403120	
			
<i>A/C Tube</i>		<i>A/C Seal Kit</i>	
Qty: 1		Qty: 1	
1401480-1	1401480-2		1200208
			
<i>Passenger side manifold</i>	<i>Driver side manifold</i>		<i>1/8" NPT Brass Plug</i>
Qty: 1	Qty: 1		Qty: 1

Required Tools

- 10/12/13/15/16mm socket & Wrench
- 7/16" / 9/16" deep socket
- Pry Bar
- Scraper
- Torque Wrench
- Side Cutter

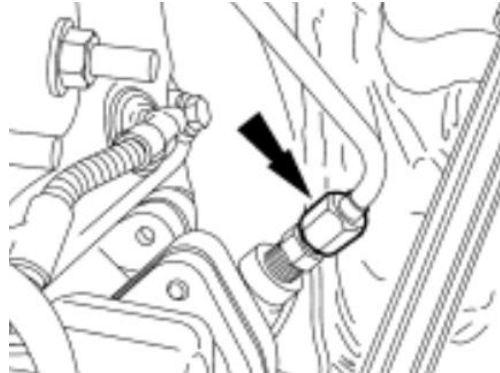
Removal

VEHICLE SHOULD BE SAFELY SECURED BEFORE INSTALLATION.

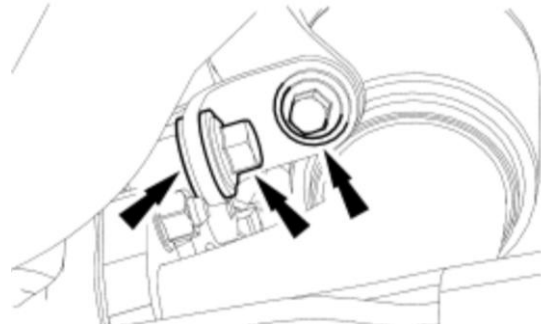
1. With the vehicle in NEUTRAL, position it on a hoist.

LH Inlet Pipe Removal

2. Disconnect the exhaust pressure (EP) sensor tube fitting.



3. Remove the EGR-oxidation catalytic converter (OC) pipe bracket-to-cylinder head bracket bolt and washer. Remove the EGR-OC pipe bracket-to-LH cylinder head bolt, washer and the bracket.



4. Remove the RH turbocharger inlet pipe-to-EGR-OC pipe bolts and the EGR-OC-to-turbocharger bracket bolts.



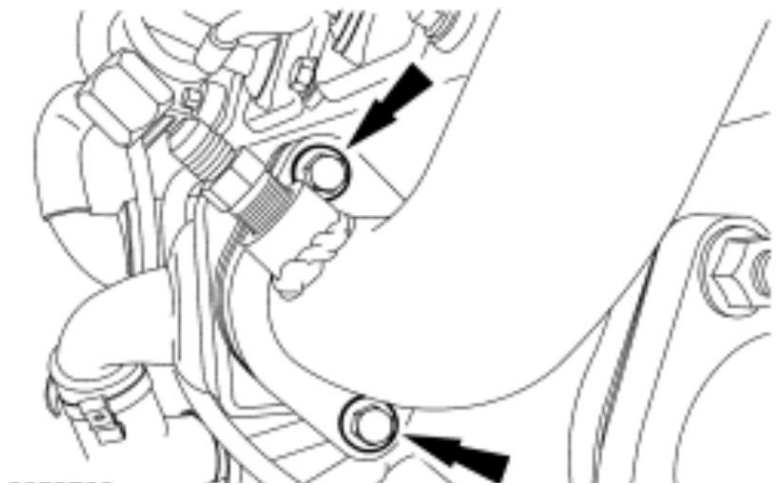
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5. Remove the EGR-OC-to-EGR cooler bolts and position the EGR-OC pipe to the left side of the vehicle and aside.



6. Remove the LH turbocharger inlet pipe-to-turbocharger bolts and remove the EGR-OC bracket.



7. Remove the LH turbocharger inlet pipe-to-turbocharger bolts and remove the EGR-OC bracket.

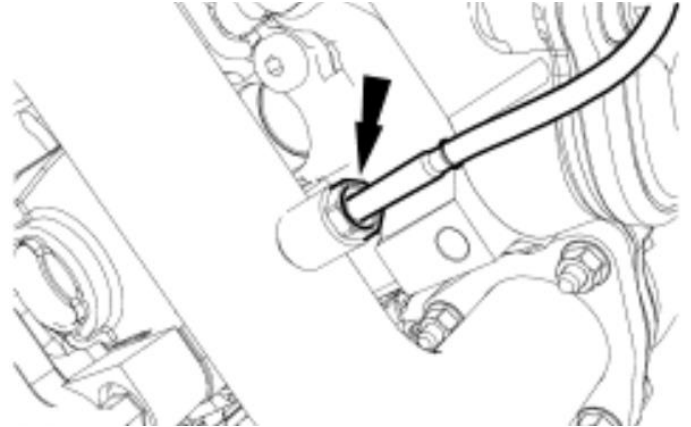
NOTE: On vehicles that have had previous service to the LH turbocharger inlet pipe, a service bolt will be in place of the upper exhaust manifold nut and stud.

8. Remove the LH turbocharger inlet pipe-to-exhaust manifold nuts and, if equipped, service bolt.

9. Remove the LH turbocharger inlet pipe from the vehicle.

RH Inlet Pipe Removal

1. Remove exhaust gas temperature (EGT) sensor from the RH turbocharger inlet pipe and position aside.
2. Remove the RH turbocharger inlet pipe-to-exhaust manifold nuts.
3. Remove the RH turbocharger inlet pipe-to-turbocharger bolts.



4. Remove the RH turbocharger inlet pipe from the vehicle. Discard the gaskets.

Exhaust Manifold Removal

1. Disconnect the alternator plug & battery cable. Remove the serpentine belt off the alternator and remove the alternator (x3) 15mm bolts.



2. Remove a/c discharge tube from compressor by removing nut. (13mm socket). Cut zip ties to free heat shielding.

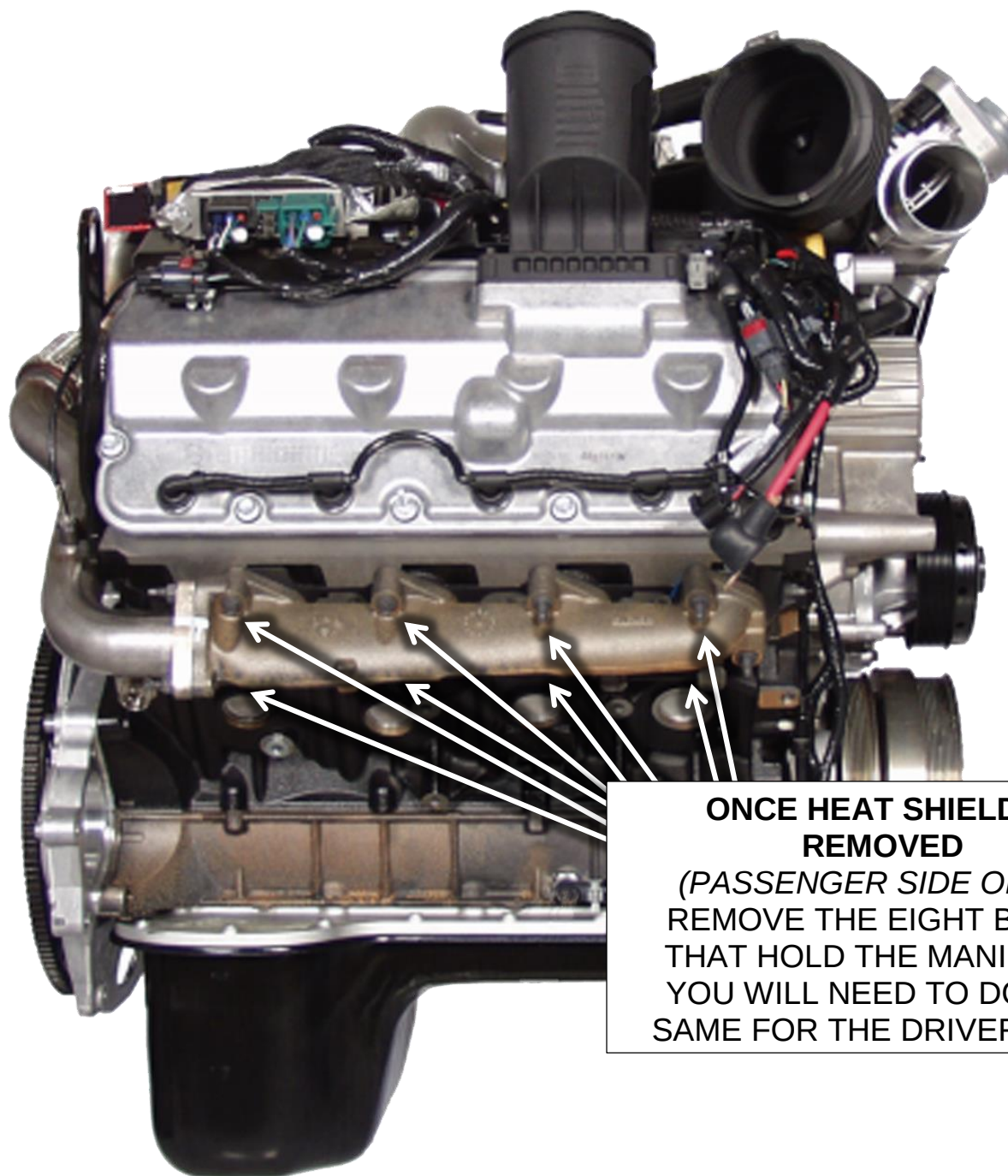


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**ONCE HEAT SHIELD IS
REMOVED**
(PASSENGER SIDE ONLY).
REMOVE THE EIGHT BOLTS
THAT HOLD THE MANIFOLD.
YOU WILL NEED TO DO THE
SAME FOR THE DRIVER SIDE.

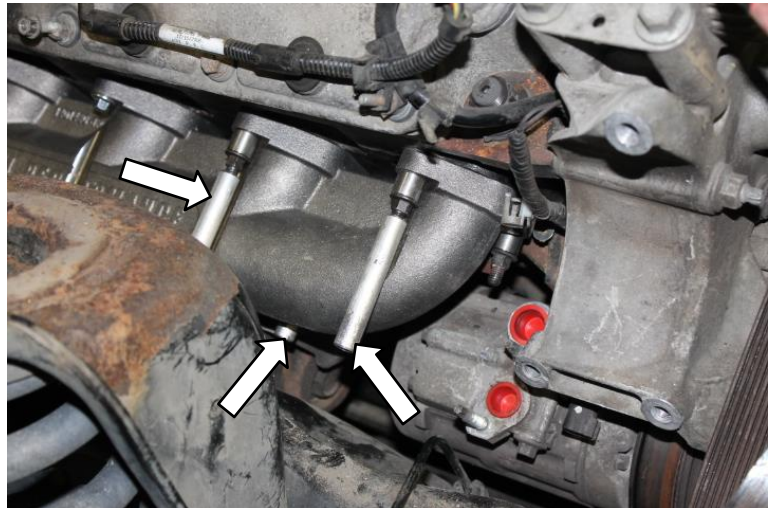
Installation

- 1) Install BD exhaust manifolds (1401480-2) driver side and (1401480-1) passenger side using OE hardware and (1403119) spacers (M10 socket). Torque to 18 ft/lbs.



Passenger side only

- 2) Install the provided threaded heat shield spacers (1403118) onto 2 upper forward exhaust manifold bolts and 1 lower 2nd from the front (M10 socket). Torque to 18 ft/lbs.



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- 3) Trim and modify OE heat shield to resemble picture and install using OE hardware (M10 Socket). Torque to 18 ft/lbs. Modification is to add clearance for a/c adapter.



- 4) Install the a/c tube (1403121) with new seal & o-ring (1403120) onto the compressor port and receiver dryer with OE nut (M13 socket). Torque to 11 ft/lbs. Install OE a/c discharge tube to adapter using M8 bolt (1900015) (M10 socket). Torque to 11 ft/lbs. Slide heat shield down over adapter fitting to compressor and secure either end with zip ties (1300131).

NOTE: Do not attempt to bend the BD supplied extension.

- 5) Install 1/4" NPT plug (1130020) (9/16" socket) into front port of driver side exhaust manifold. If not installing a thermocouple the 1/8" NPT plug (1200208) can be installed into the rear port (7/16" socket).



- 6) Clean up feed port mating surface on turbo assembly. Install driver side up pipe (1403115) with new gasket (8C3Z-6N640-A) and 3 M8 bolts (FT-11116340) (M10 socket) at turbo then 2 M8 bolts (1900013) and nuts (1900014) (M10 and M13 sockets) at manifold. Torque to 18 ft/lbs. **Repeat for passenger side.**



- 7) At this point please remove the Exhaust Back Pressure (EBP) sensor, tube and fitting from the OE driver side manifold. Install the fitting into the driver side feed pipe port (9/16" socket). Now connect EBP tube and adjust position to line up with original mounting bracket. Mount with OE M6 nut (M10 socket). Torque nut to 80 in/lbs and tube to 180 in/lbs. Now connect sensor plug.



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- 8) Remove the OE thermocouple from the OE passenger side up pipe and install it in the BD passenger side up pipe (13mm wrench). Torque to 28 ft/lbs.



- 9) Refer to the removal procedure in reverse for installation.

If you have any technical difficulties, concerns, comments, or complaints, please phone our Technical Support hotline at (800) 887-5030 between 8:30am-5:00pm PST (Pacific Standard Time) Monday to Friday.