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BD Duramax Exhaust Manifolds

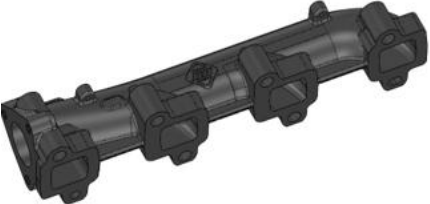
For 2001-2016 GM 6.6L Duramax Engines

1041459	Full Exhaust Manifold Kit
1041460	Driver Side Single Kit
1041461	Passenger Side Single Kit

Please read all instructions before installation.

Kit Contents

1041459 Kit Contents

1401460		1401461	
			
Driver's Side Manifold		Passenger's Side Manifold	
Qty: 1		Qty: 1	
1401462	1462420	FK-1041459	1200208
			
Manifold Gasket	Up Pipe Gasket	Duramax Fastener Kit	Plug; 1/8" NPT Hex
Qty: 2	Qty: 2	Qty: 2	Qty: 1

1041460 Kit Contents

1401460	1401462	1462420	FK-1041459	1200208
				
Driver's Side Manifold	Duramax Gasket Kit	Up Pipe Gasket	Fastener Kit	Plug; 1/8" NPT Hex
Qty: 1	Qty: 1	Qty: 1	Qty: 1	Qty: 1

1041461 Kit Contents

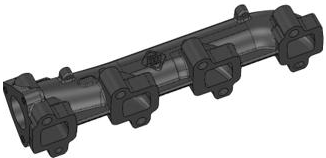
1401461	1401462	1462420	FK-1041459
			
Passenger's Side Manifold	Duramax Gasket Kit	Up Pipe Gasket	Duramax Fastener Kit
Qty: 1	Qty: 1	Qty: 1	Qty: 1

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OEM Heat Shield Fitment

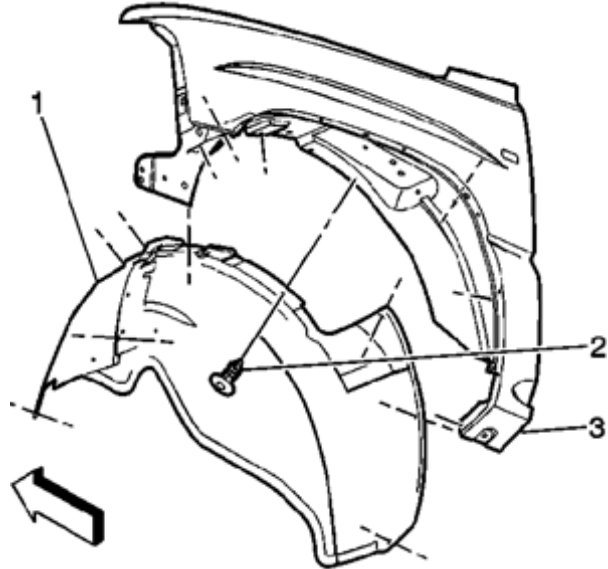
If your vehicle/motor was built before January 9, 2007, the OE driver's side heat shield will need modification to fit the BD manifold. Alternatively, OE heat shields that fit the BD manifold without modification can be purchased with the following part numbers:

Vehicle Model	App. Year	Heat Shield Part No.
Chevrolet Silverado 2500HD/3500HD	2001-2016	12668107 (Driver Side)
GMC Sierra 2500HD/3500HD		12668108 (Passenger Side)

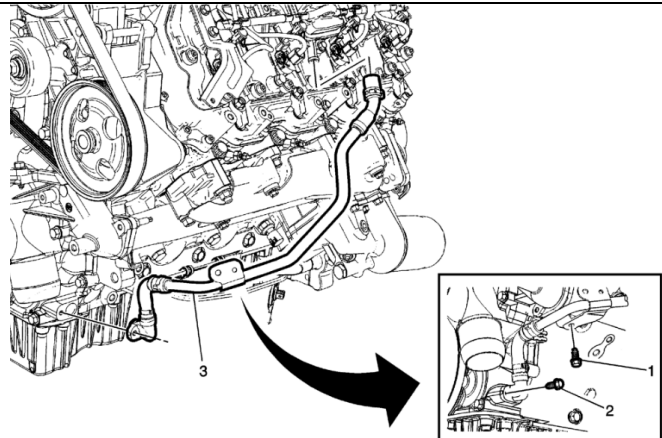
Installation

Left Side Manifold Removal

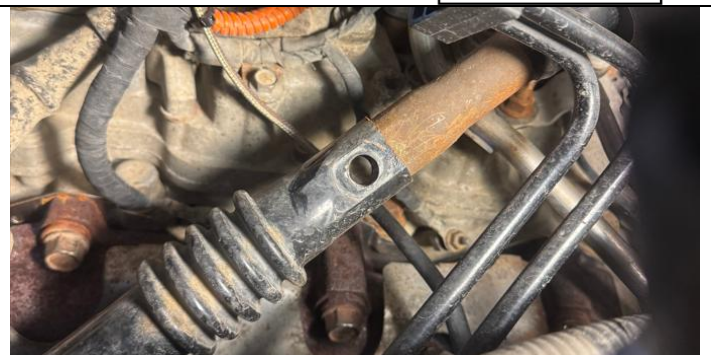
Remove the driver's side front wheel and remove the driver's side plastic fender well.



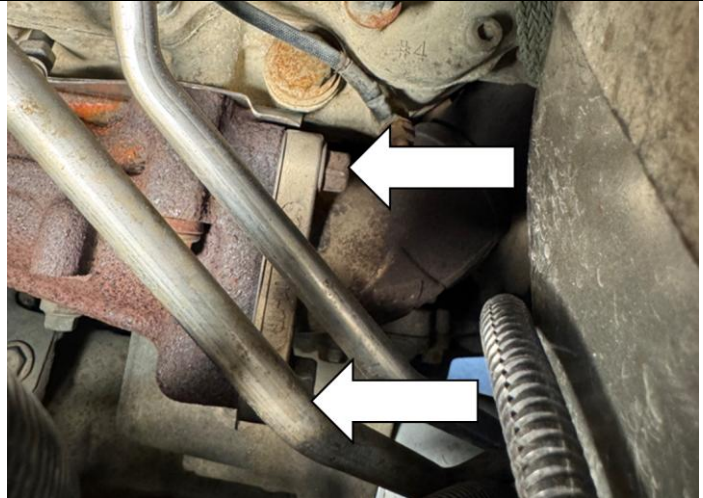
If applicable, disconnect the top PCV oil separator tube connection and move the PCV oil separator tube (3) out of the way.



Disconnect the intermediate steering shaft and separate the coupling from the shaft.



Separate the driver's side up-pipe and exhaust manifold by removing the 3 bolts.



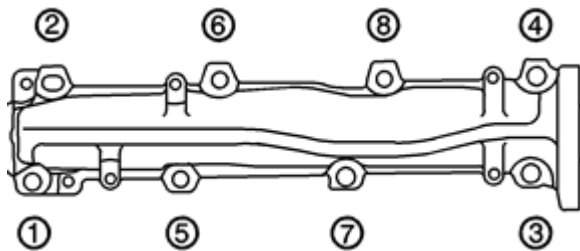
Remove the driver's side exhaust manifold heat shield bolts.

Remove the driver's side exhaust manifold heat shield.



Remove the driver's side exhaust manifold bolts and nuts in the proper sequence.

Remove the driver's side manifold.



Remove the driver's side exhaust manifold gasket and studs.

Note: Using two of the old manifold nuts as shown can make stud removal easier.



Clean and inspect head surface.



Left Side Manifold Installation

If the vehicle is equipped with an EGT probe, thread it into the provided 1/8" NPT port. Otherwise, install the provided 1/8" NPT plug.

The OE heat shield will require trimming to fit the EGT probe. If the vehicle is equipped with an EGT sensor, test fit and trim the heat shields at this point.

NOTE:

BD Manifolds are designed to work with post-2007 heat shields. These can be purchased from GM. See section "OEM Heat Shield Fitment" above for further details.



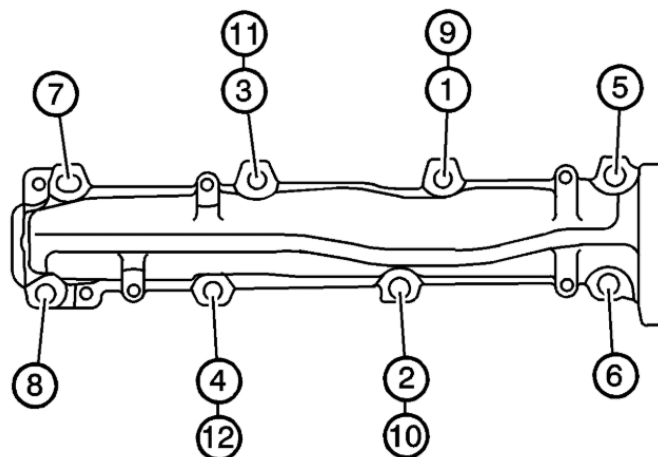
Install the new BD driver's side manifold with gasket.

Install the supplied exhaust manifold bolts and washers to hand tightness.



Use the sequence shown to properly tighten the exhaust manifold bolts.

Year/Model	Torque Spec
2001-2004 LB7 2004.5-2005 LLY	28 lb-ft (38 Nm)
2006-2007.5 LBZ 2008-2010 LMM 2011-2016 LML	42 lb-ft (56 Nm)



Torque the center 4 fasteners again to the appropriate torque spec.

Install the exhaust manifold heat shield and bolts.

Tighten the bolts to the appropriate torque spec shown below.

Torque Spec: 89 lb-in (10 Nm)

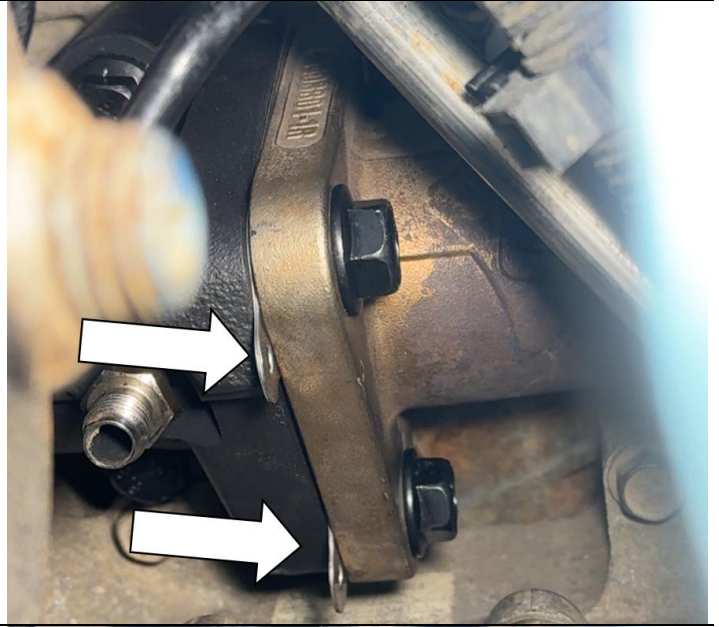
NOTE:

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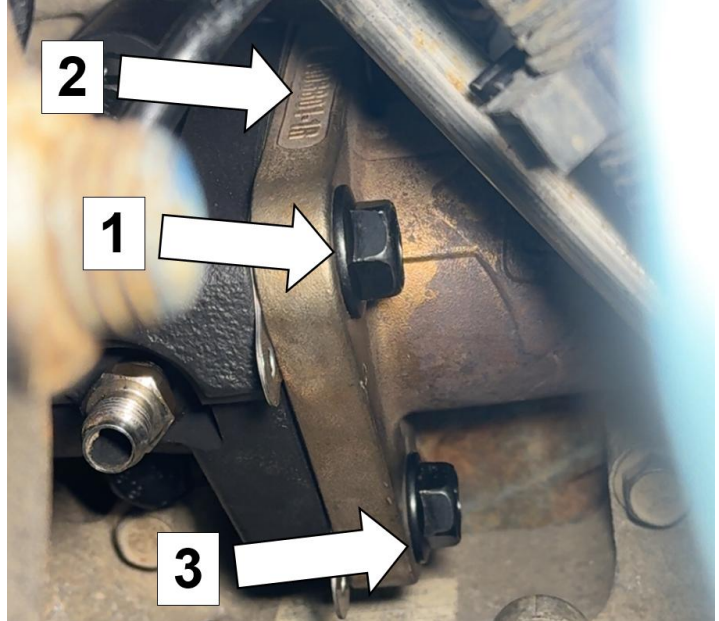
Install the exhaust pipe gasket. Align the tabs on the gasket to face outward (see arrows).

Install and hand-tighten the fasteners joining the up-pipe and exhaust manifold.



Torque the up-pipe/exhaust manifold bolts in the sequence shown (1, 2, and 3) to the appropriate torque spec:

Torque Spec: 39 lb-ft (53 Nm)

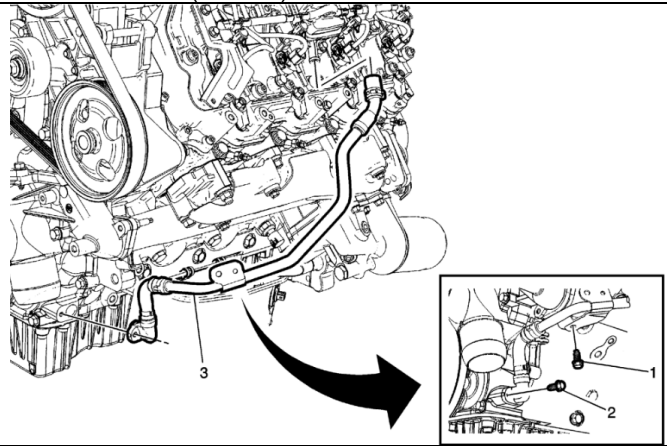


Reconnect the steering shaft coupling and intermediate shaft. Tighten the fastener to the appropriate torque spec:

Torque Spec: 37 lb-ft (50 Nm)



If applicable, reconnect the top PCV oil separator tube connection.

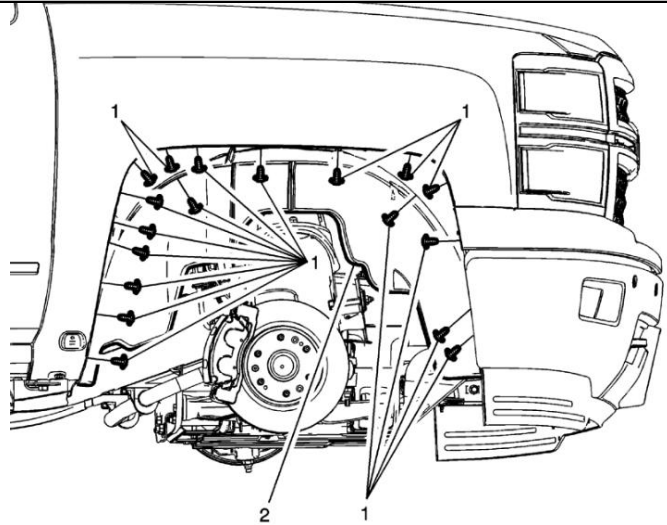


Reinstall the driver's side plastic fender well and the driver's side front wheel.

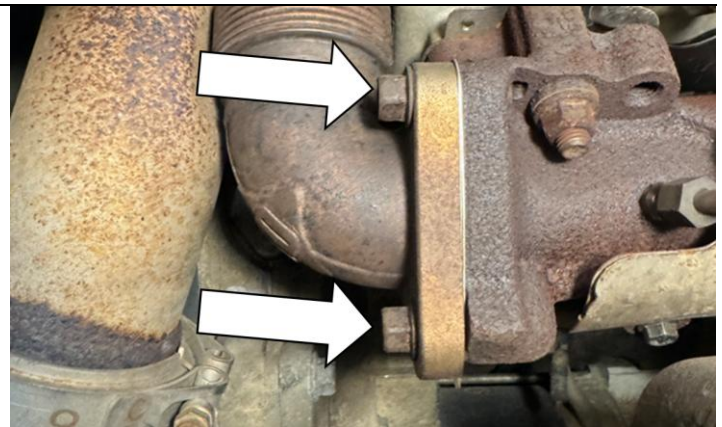


Right Side Manifold Removal

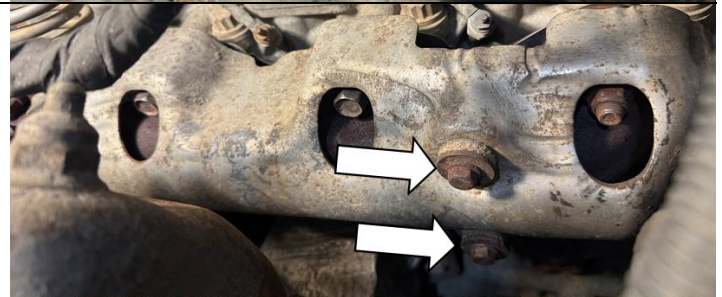
Remove the passenger's side front wheel and remove the passenger's side plastic fender well.



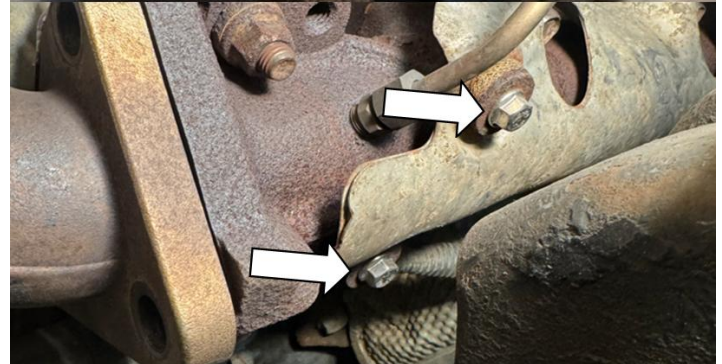
Remove the three bolts joining the passenger's side up-pipe to the exhaust manifold.



Remove the passenger side exhaust manifold heat shield bolts.

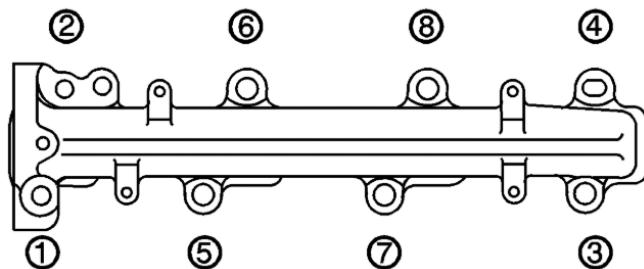


Remove the passenger's side exhaust manifold heat shield.



Remove the passenger's side exhaust manifold bolts and nuts in the proper sequence.

Remove the passenger's side exhaust manifold.



Remove the passenger's side exhaust manifold gasket.

Remove the exhaust manifold studs.

Note: Using two of the old manifold nuts as shown can make stud removal easier



Clean and inspect head surface.



Right Side Manifold Installation

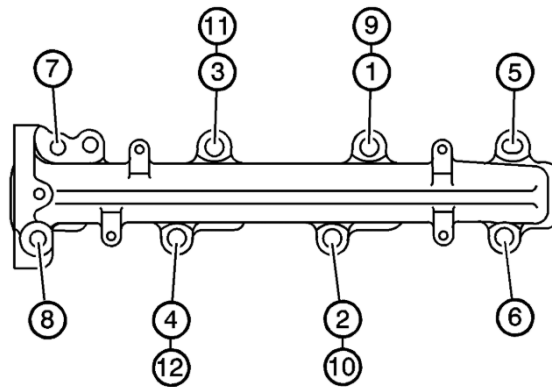
Install the new BD passenger's side manifold with gasket.

Install and hand tighten the provided exhaust manifold bolts and washers.



Use the sequence shown to properly tighten the exhaust manifold bolts.

Year/Model	Torque Spec
2001-2004 LB7 2004.5-2005 LLY	28 lb-ft (38 Nm)
2006-2007.5 LBZ 2008-2010 LMM 2011-2016 LML	42 lb-ft (56 Nm)



Torque the center 4 fasteners again to the appropriate torque spec.

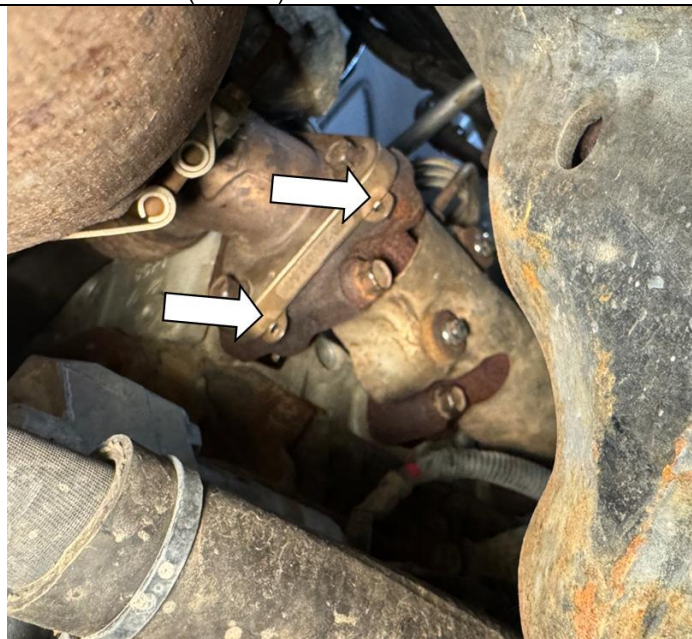
Install the exhaust manifold heat shield and bolts.

Tighten the bolts to the appropriate torque spec shown below.

Torque Spec: 89 lb-in (10 Nm)

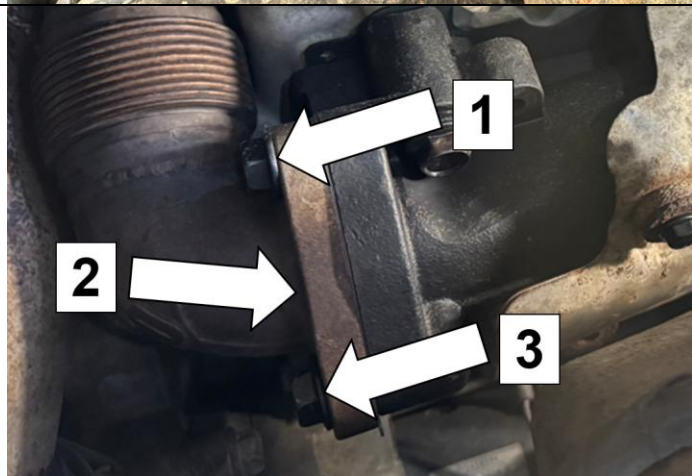


Install the exhaust pipe gasket with the tabs (2) facing downwards, as shown.



Install and tighten the up-pipe to exhaust manifold bolts in the sequence shown (1, 2, and 3) to the following torque spec.

Torque Spec: 39 lb-ft (53 Nm)



Reinstall the passenger's side plastic fender well and the passenger's side front wheel.

Lower the vehicle.

Installation is now complete. Start the vehicle and check for exhaust leaks.

