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BD Duramax Exhaust Manifolds

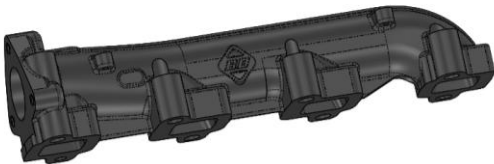
For 2001-2016 GM 6.6L Duramax Engines

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

Please read all instructions before installation.

Kit Contents

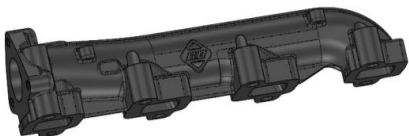
1041459 Kit Contents

1401460		1401461	
			
Driver's Side Manifold		Passenger's Side Manifold	
Qty: 1		Qty: 1	
1401462	1462420	FK-1041459	1200208
			
Manifold Gasket	Up Pipe Gasket	Fastener Kit **See Table**	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 **See Table**	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	Fastener Kit **See Table**
Qty: 1	Qty: 1	Qty: 1	Qty: 1

Below table contains contents of one (1) fastener kit found in applicable kits

Fastener Kit Contents for 1041459				
M10 x 60mm Hex Flange Bolt	M10 x 100mm Hex Flange Bolt	M10 Washer, Thick	M10 x 30mm Hex Flange Bolt	M6 x 25mm Hex Flange Bolt
				
Qty: 8	Qty: 1	Qty: 8	Qty: 3	Qty: 4

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OEM Driver's Side Heat Shield Fitment

If your vehicle/motor was built before January 9, 2007, or has the 'dented' style OEM driver's side manifold, the OEM Driver's Side heat shield will need modification to fit the BD manifold. Alternatively, a newer "LML" style OEM heat shield that fits directly onto the BD manifold without modification, can be purchased from a GM parts dealer with the listed part numbers below.

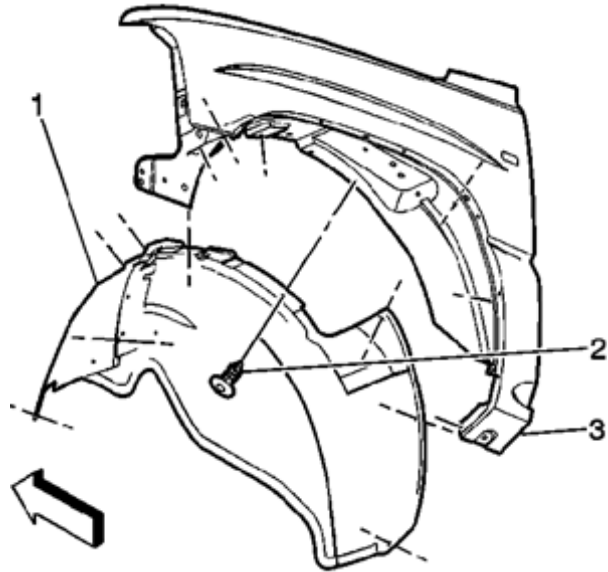
Any year OEM passenger side heat shield will fit the BD passenger side manifold.

Vehicle Model	Engine Side	GM Heat Shield Part No.
Chevrolet Silverado 2500HD/3500HD	Driver's Side	12668107
GMC Sierra 2500HD/3500HD	Passenger's Side	12668108

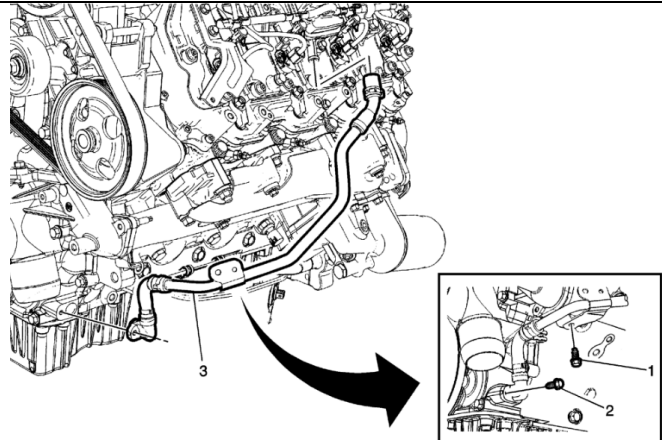
Installation

Left Side Manifold Removal

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



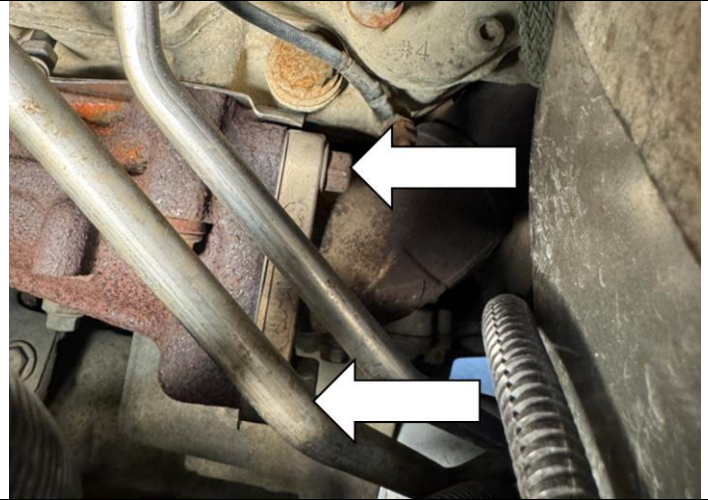
If applicable, disconnect the top PCV oil separator tube connection and move the PCV oil separator tube (3) out of the way.



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.



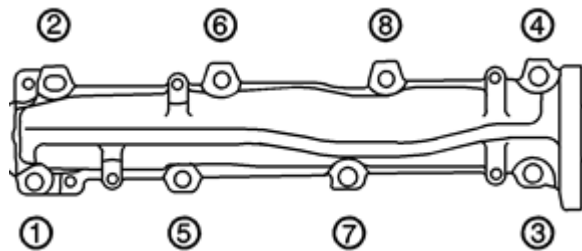
Remove the driver's side exhaust manifold heat shield bolts.

Remove the driver's side exhaust manifold heat shield.



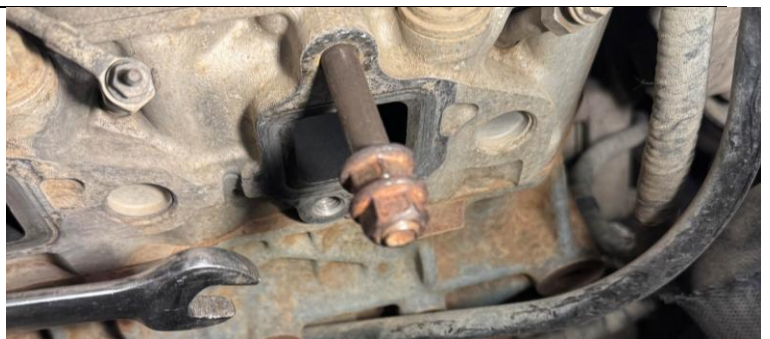
Remove the driver's side exhaust manifold bolts and nuts in the proper sequence.

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.



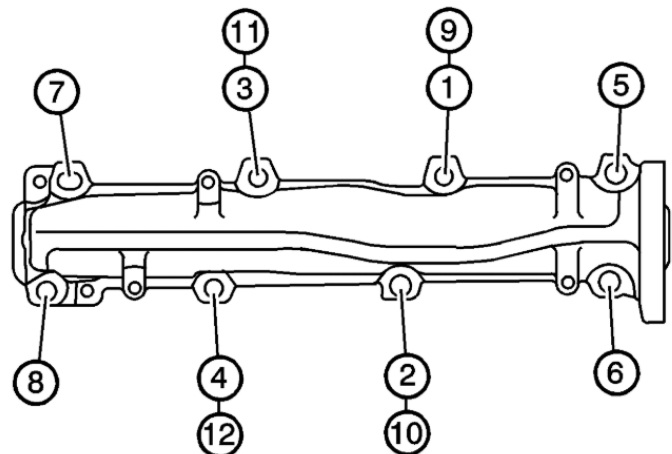
Install the supplied exhaust manifold bolts and washers to hand tightness.



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)

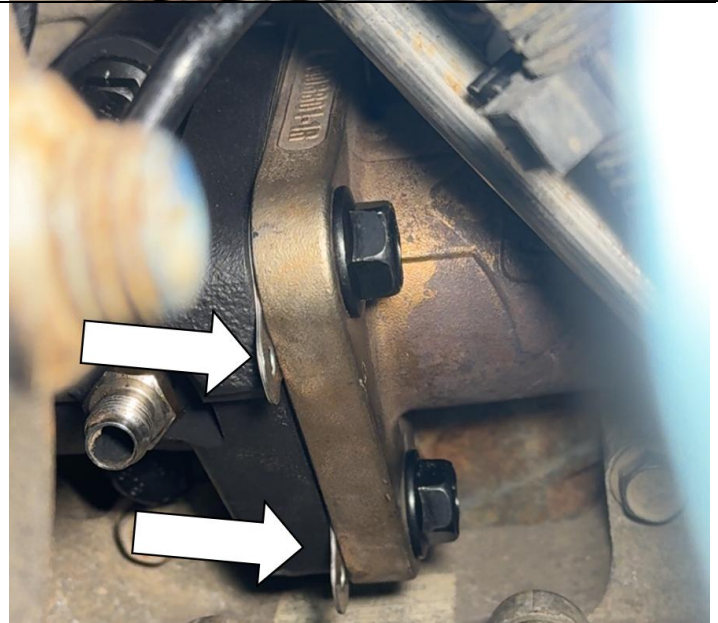
NOTE:

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.



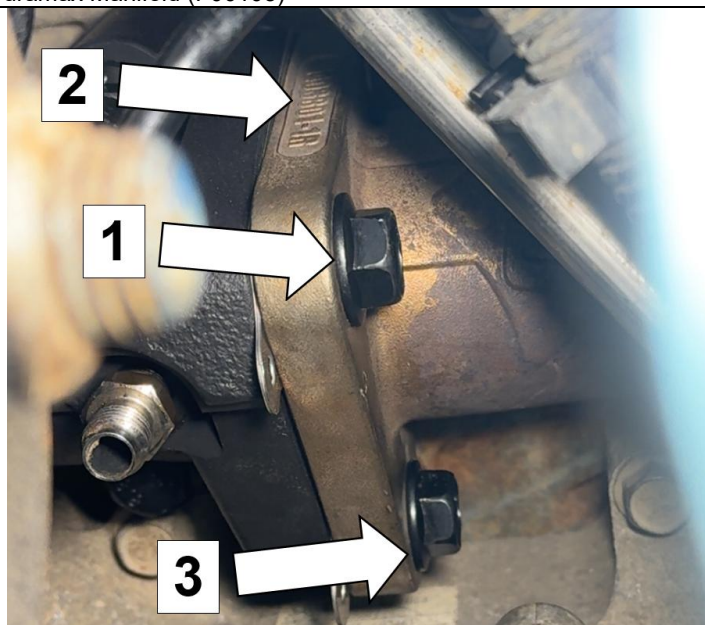
Install the exhaust pipe gasket. Align the tabs on the gasket to face outward (see arrows).

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)

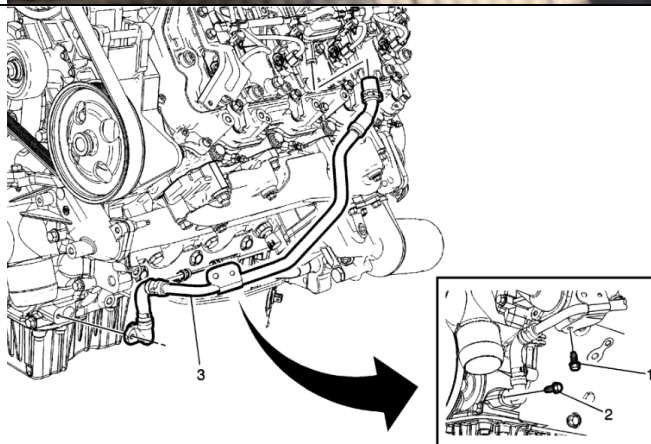


Reconnect the steering shaft coupling and intermediate shaft. Tighten the fastener to the appropriate torque spec:

Torque Spec: 37 lb-ft (50 Nm)



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

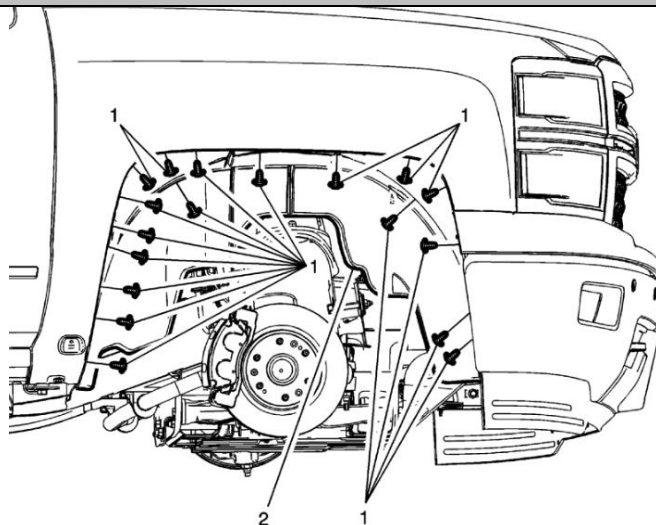


Reinstall the driver's side plastic fender well and the driver's side front wheel.

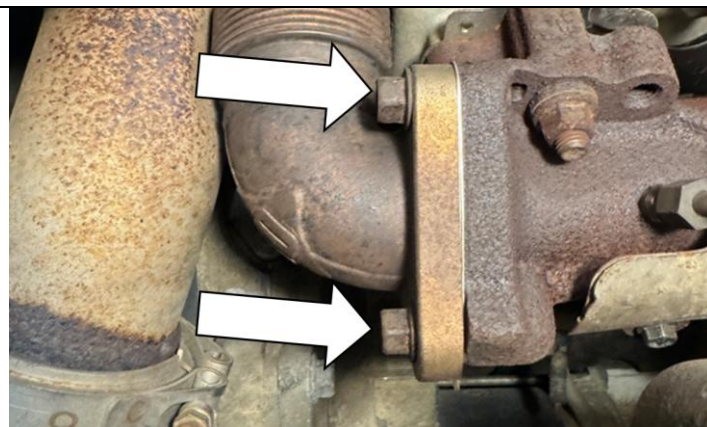


Right Side Manifold Removal

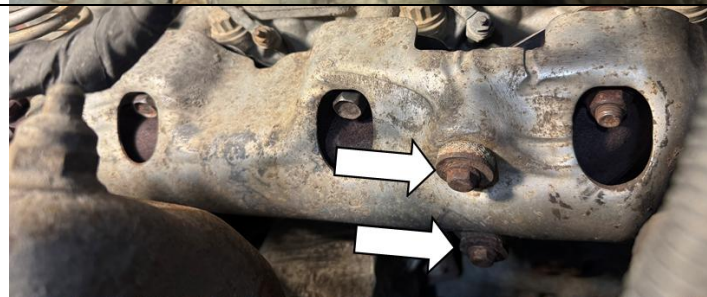
Remove the passenger's side front wheel and remove the passenger's side plastic fender well.



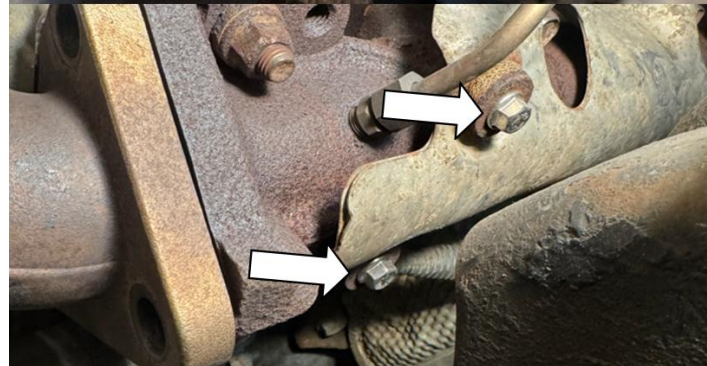
Remove the three bolts joining the passenger's side up-pipe to the exhaust manifold.



Remove the passenger side exhaust manifold heat shield bolts.

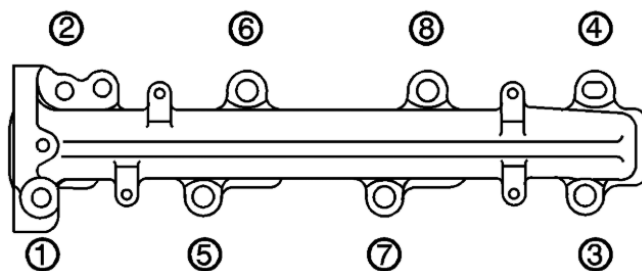


Remove the passenger's side exhaust manifold heat shield.



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.

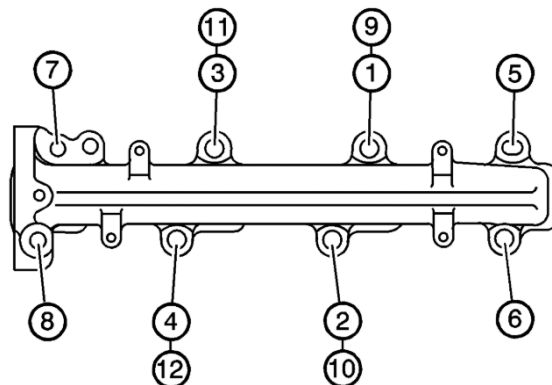
For 2001-10 model years, Dipstick routing fitment is narrow. Temporary removal of dipstick bolt (arrow) is helpful for dipstick alignment during installation.

Note: Once manifold is torqued, reinstall dipstick mounting bolt. Minor bending of dipstick tube may aid in alignment at this point.



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.

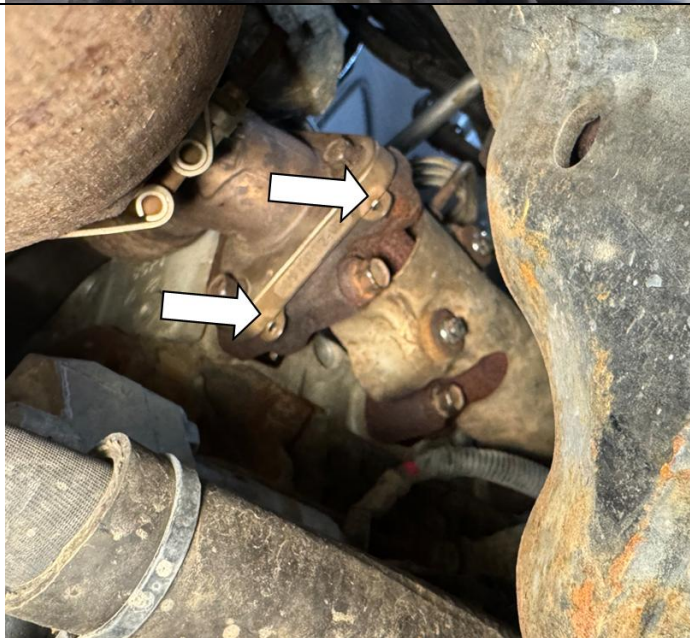
Install the exhaust manifold heat shield and bolts.

Tighten the bolts to the appropriate torque spec shown below.

Torque Spec: 89 lb-in (10 Nm)

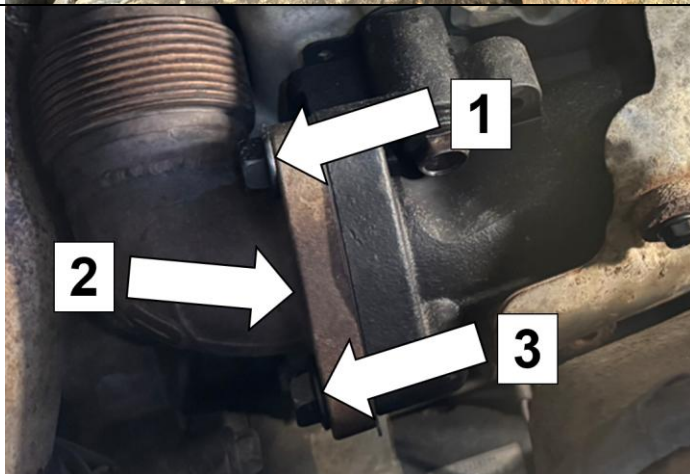


Install the exhaust pipe gasket with the tabs (2) facing downwards, as shown.



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.

