

High Flow Exhaust Manifolds and Up-Pipes Kit

*2001-2016 6.6L GM Duramax
LML model requires modification on upper control arm
bushing heat shield. Up-Pipe configuration may vary
depending on your model.*

Installation Guide



DISCLAIMER OF LIABILITY

Performance products can increase horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drive-train components, which could result in drive-train failure.

Note regarding emissions-related, non-E.O.-legal products: THESE PRODUCTS ARE LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES THAT MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR HIGHWAY OR OFF-ROAD USE.

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LIMITATION OF WARRANTY

The Seller gives Limited Warranty as to description, quality, merchantability, and fitness for a particular purpose, productiveness, or any other matter of Seller's product sold herewith. The Seller shall not be responsible for the products proper use and service and the Buyer hereby waives all rights other than those expressly written herein. This warranty shall not be extended, altered or varied except by a written instrument signed by Seller and Buyer.

The Warranty on PPE Manifolds and Up-Pipes Kits, OEM-Length Up-Pipes is three (3) years, a limited lifetime warranty on PPE cast aluminum pans and covers, and a limited lifetime warranty on PPE Transmission Coolers and one (1) year limited warranty on all other PPE products from the date of sale to original buyer and limited solely to the parts contained within the products kit. All products that are in question of Warranty must be returned prepaid to the Seller and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Seller. Under no circumstances will the Seller be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or re-installation - of this product or any other contingent expenses. Under no circumstances will the Seller be liable for any damage or expenses incurred by reason of the use or sale of any such equipment. In the event that the buyer does not agree with this agreement: the buyer may promptly return this product, in a new and unused condition in its original packaging, with a dated proof of purchase to the place of purchase within ten (10) days from date of purchase for a full refund. The installation of this product indicates that the buyer has read and understands this agreement and accepts its terms and conditions.

These items included in kit.



Left and Right Manifolds (2)



PPE Up-Pipe Gaskets (4)
(118062030)



High-Performance Manifold Gaskets (2)
(118062010)



Left and Right Up-Pipes (2)
(116119045L 116119050R) depicted



Down-Pipe Support Bracket (1)
(116110510)



**(16) - m10 - 1.5 X 35
socket-head bolts**

Use these items to assist the installation process.

PPE Titanium Exhaust Wrap

Available Sizes:

1.0 inch wide

15 foot roll (578001015)

25 foot roll (578001025)

50 foot roll (578001050)

2.0 inch wide

15 foot roll (578002015)

25 foot roll (578002025)

50 foot roll (578002050)



PPE LMM Coolant Tube
(116111810)



PPE LMM Block Off Plug
(119000100)



8mm: Straight and ball end
Allen head sockets.

12mm, 12pt: short,
long and swivel head.

2001 6.6L DURAMAX SHOWN



STEP 1

Disconnect the negative leads from the batteries.

STEP 2

Remove the right (passenger side) tire.

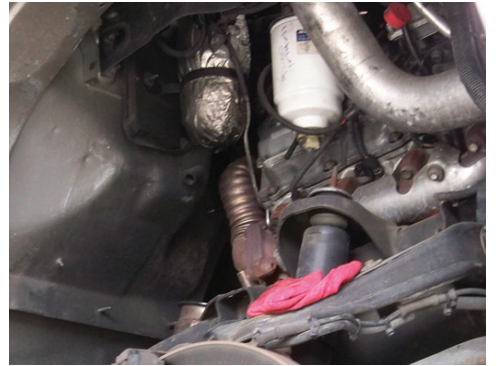
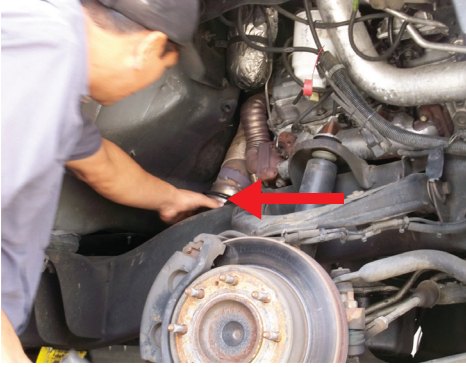


STEP 3

Using either a flat-headed screwdriver or a specialty fastener tool, gently pry up the heads of the push fasteners and remove the inner fender.

STEP 4

Loosen the transmission dipstick tube.

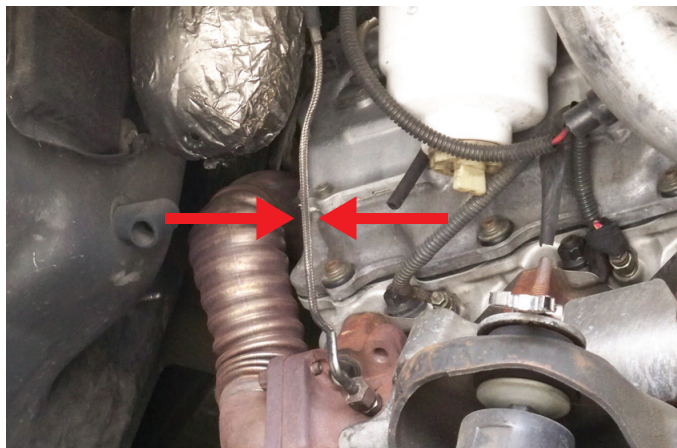


STEP 5

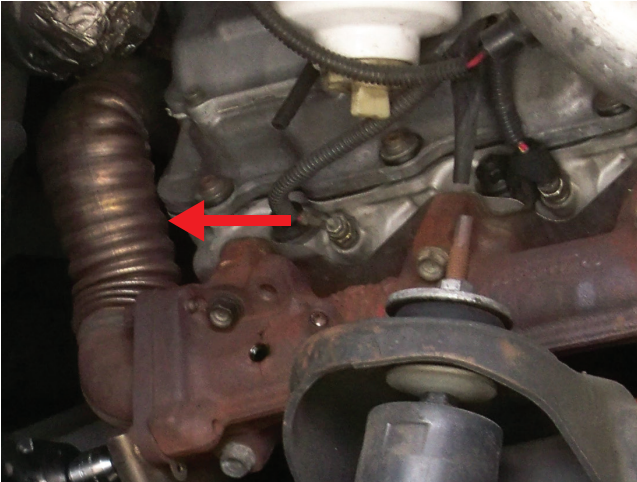
Remove the clamp from right side outlet exhaust pipe and remove outlet exhaust pipe. Some maneuvering of the outlet exhaust pipe will be required to remove it.

**STEP 6**

Remove the heat shield from the exhaust manifold.

**STEP 7**

If vehicle is equipped with aftermarket EGT gauge, remove probe and put electrical lead safely out of the way. Note that stock vehicles will not have this lead cable or probe.



STEP 8
Remove the right side up-pipe.



STEP 9
Remove exhaust manifold. Replace with new manifold and gasket.

**STEP 10**

Remove the left tire.

**STEP 11**

Remove the left inner fender.

**STEP 12**

Un-bolt and remove left up-pipe.



STEP 13

Orient steering shaft so that the bolt is in the up/down position, then remove steering shaft bolt and separate the steering shaft. Failure to properly orient the shaft/bolt will result in the bolt being impossible to remove/install.

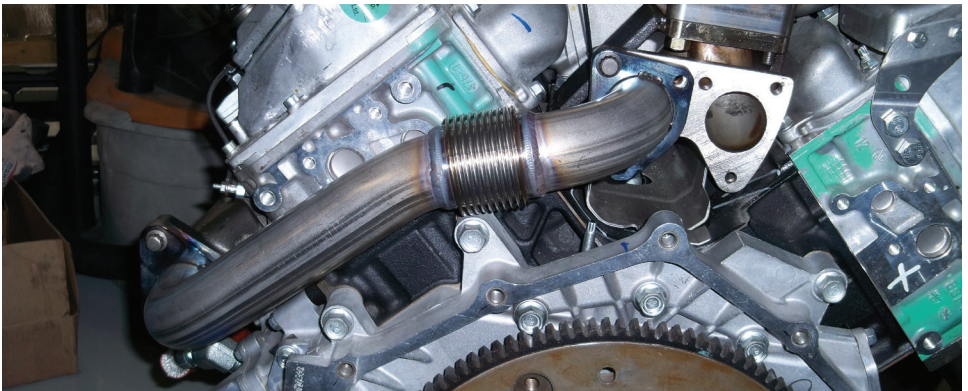
STEP 14

Remove heat shield from left-side manifold.

STEP 15

Remove the left-side manifold.

Special Note: Before installing the left-side manifold, install the left up-pipe so you have more room to work. Installation of the manifold and up pipes in some pictures will show an engine that is on a stand and not in the truck. This is done for image purposes only. You do not need to lower or remove the engine from the truck to complete this install.



STEP 16

Connect left up-pipe to the turbo, leaving the mounting hardware loose at this time.

STEP 17

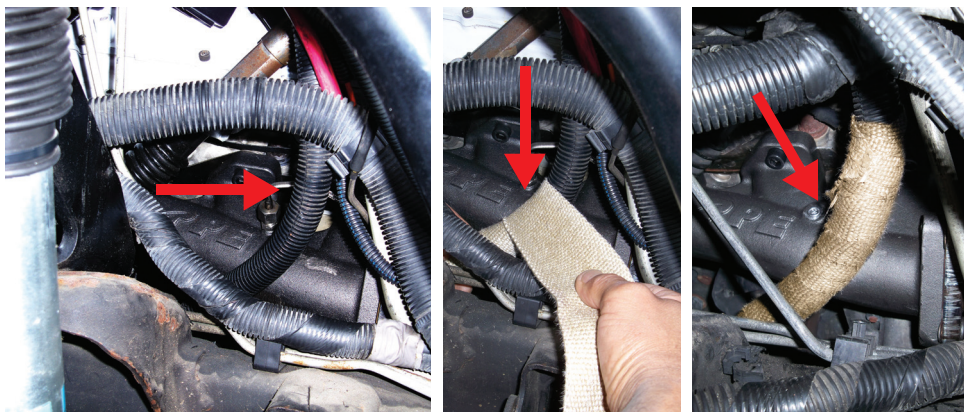
Install the left side manifold with new PPE gasket and torque mounting hardware to 42 ft.lbs. Connect up-pipe to exhaust manifold and tighten hardware to 39 ft.lbs.

STEP 18

Install the left side manifold with new PPE gasket and torque mounting hardware to 42 ft.lbs. Connect up-pipe to exhaust manifold and tighten hardware to 39 ft.lbs.

STEP 19

Connect steering shaft and steering shaft bolt.

**STEP 20**

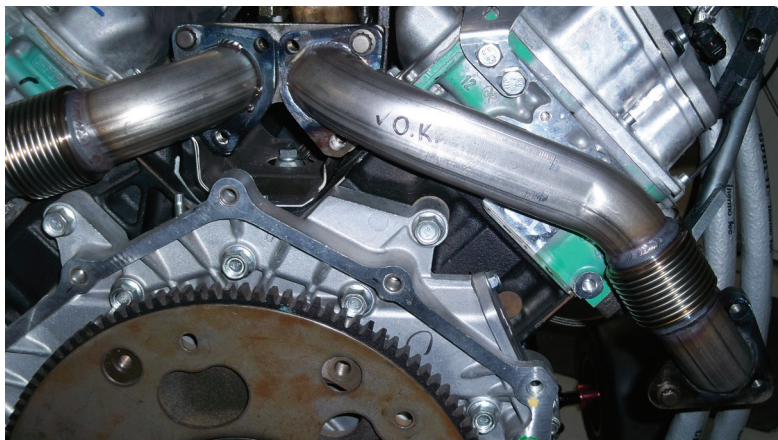
Wrap the power steering pressure hose with “heat wrap” tape (not included) overlapping at a 50% rate. Secure ends of wrap with safety wire (not zip-ties or tape).

STEP 21

Install the left-side inner fender.

STEP 22

Install the left tire.

**STEP 23**

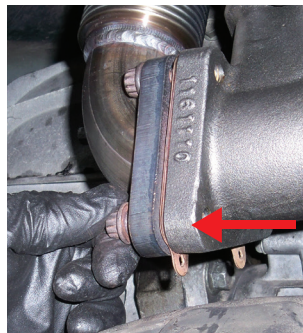
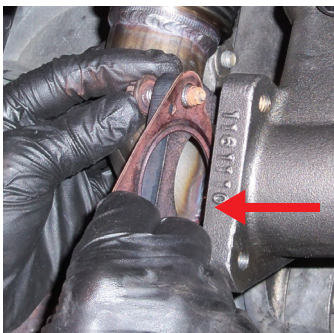
Install the right side up-pipes, keeping the mounting hardware loose at this time.

**STEP 24**

The engine oil dipstick tube is routed between the first and second exhaust flanges/runners. Place the gasket as normal, but with the tube running over it and then install the manifold. Bolt the manifold in place and torque mounting hardware to 42 ft.lbs.

STEP 25

Install the EGT gauge probe/lead on manifold if applicable.

**STEP 26**

Insert new gasket and install hardware connecting the up-pipe to the manifold. With up-pipe connected to manifold, tighten hardware connecting up-pipe to turbo and to manifold to 39 ft.lbs.

**STEP 27**

Refasten the transmission dipstick tube.

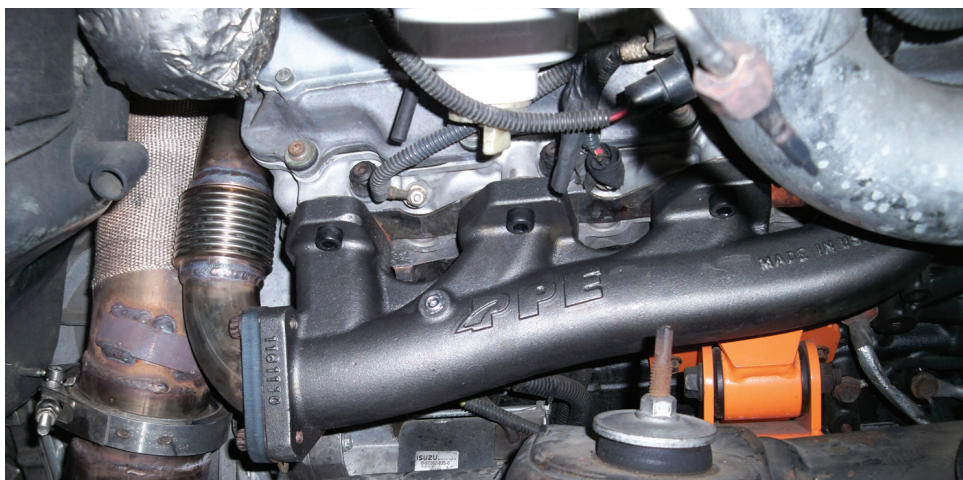
**CONSIDER
REPLACING YOUR
STOCK DOWN PIPE
WITH A PPE THREE-
INCH 304 STAINLESS
STEEL DOWN-PIPE**

**STEP 28**

Helpful tip: Applying a coating of Nickel Anti-Seize Lubricant to the exhaust sections makes for an easier install.

**STEP 29**

Install outlet exhaust down pipe and clamp to main exhaust system.

**STEP 30**

Install the right tire fender.

STEP 31

Install the right tire.

STEP 32

Re-connect negative battery leads.



STEP 33

Place supplied Manifold and Up-Pipes decal on the engine shield in the designated area for reference in future smog testing.

YOUR INSTALLATION IS NOW COMPLETE.



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