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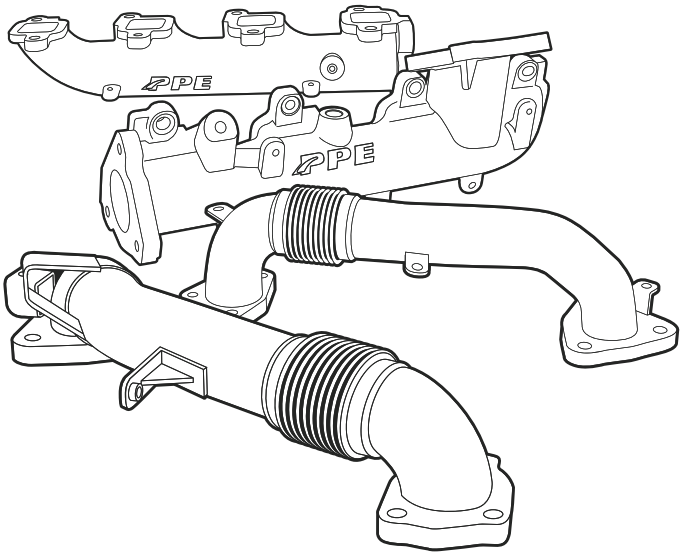


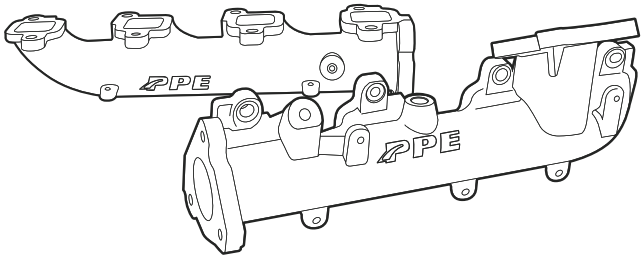
High-Flow Manifolds and Up-Pipes Kit 2017+ GM 6.6L Duramax L5P

(116112500, 116112520, 116112535)

Installation Guide

R10.25(1)

A



B

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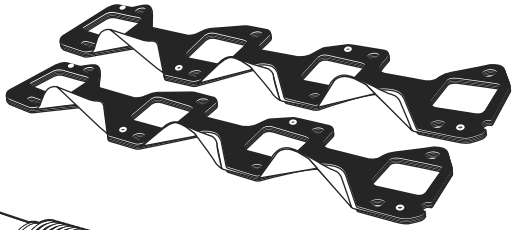

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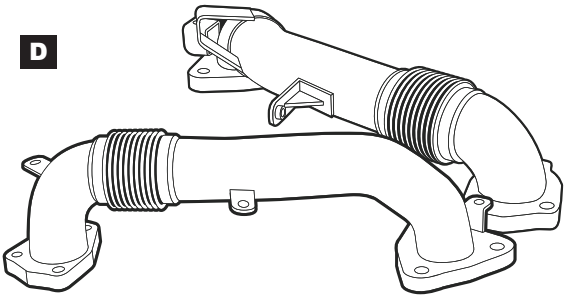
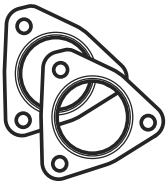


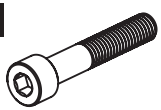
E

F



G

H



I

J

K

CONTENTS

A: (2) Manifolds (L and R)
B: (1) EGR Gasket
C: (2) Manifold Gaskets
D: (2) Up-Pipes (L and R)
E: (2) Upper Up-Pipe Gaskets
F: (2) Lower Up-Pipe Gaskets (L and R)
G: (6) Spacers
H: (6) M8 Socket Head Cap Screws
I: (9) M6 Flange Head Hex Screws
J: (10) M8 Studs, Black Oxide
K: (10) M8 Flange Nuts, Black Oxide

Installation shown on a static engine to depict detail.

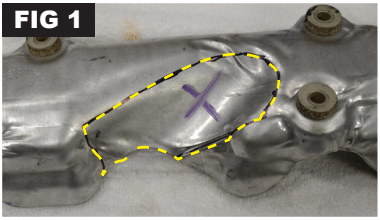
PREPARATION

Step 1. Vehicle off. Engine cool.

Step 2. Remove both stock exhaust manifolds, all heat shielding, sensor, both stock up pipes and the stock down pipe.

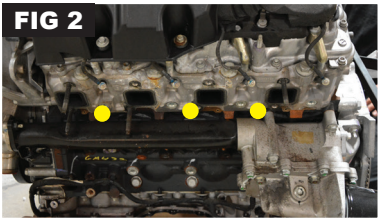
Step 3. Trim passenger side heat shield as shown (FIG 1).

FIG 1



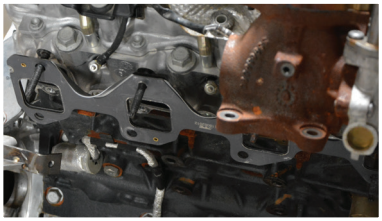
Step 4. Remove all driver side and all passenger side factory studs from the cylinder head where the factory exhaust manifolds bolt on. Install PPE Studs (5 on each side) to all hardware mounting holes, except for the 3 lower rear driver side and the 3 lower rear passenger side. Reference location in picture. (FIG 2)

FIG 2

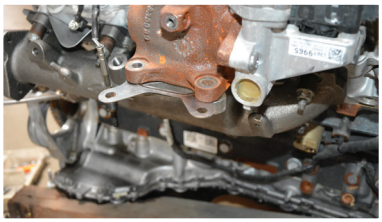


INSTALLATION

Step 1. Install the passenger side PPE Exhaust Manifold Gasket and PPE Exhaust Manifold on the engine block, securing with two PPE nuts **(K)** *finger tight for now.*



Step 2. Place the PPE EGR gasket between the Manifold and the EGR stand on the top of the passenger side Manifold. Use the factory hardware to secure the EGR and Manifold finger tight for now.

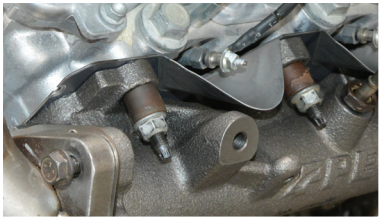


Step 3. *For the 3 lower rear hardware locations, install 3 PPE Spacers* **(G)** *and 3 PPE M8 Bolts* **(H)** *to replace the removed factory studs, finger tight for now.*

Install 5 factory spacers and 5 PPE Nuts **(K)** *on the ends of the 5 PPE studs installed during preperation, finger tight for now.*

Tighten the EGR to Manifold bolts to 18 lb-ft.

Tighten all PPE Nuts **(K)** *and Bolts* **(H)** *to 24 lb-ft.*



Step 4. *Reinstall the factory sensor to the PPE Passenger Side Exhaust Manifold.*

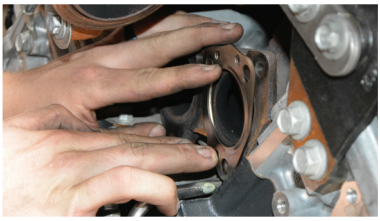
Repeat for driver side.

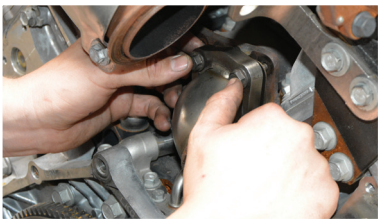
Step 5. *Install the passenger side PPE Up-Pipe Gasket between the upper Up-Pipe flange and the back of the turbo.*

If using factory hardware, tighten to 18 lb-ft.

If using PPE Up-Pipe Bolts 116122500, tighten to 24 lb-ft.

Repeat for driver side.



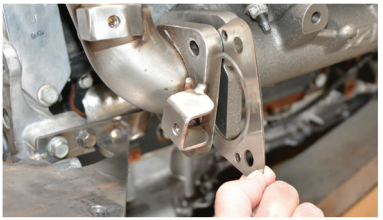


Step 6. Place the lower passenger side PPE Up-Pipe Gasket between the Exhaust Manifold and the Up-Pipe Flange.

If using factory hardware, tighten to 18 lb-ft.

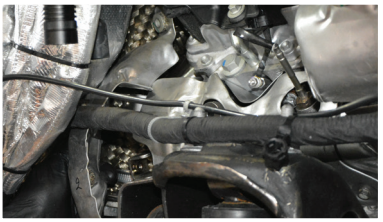
If using PPE Up-Pipe Bolts 116122500, tighten to 24 lb-ft.

Repeat for driver side.



Step 7. Reinstall factory down pipe

Step 8. Reinstall driver and passenger side heat shields.



Step 9. Place the supplied CARB E.O. label on a clean, visible location under the hood. PPE recommends using the top side of the fan shroud.

Installation complete.

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