



FORCE II

Installation Instructions 817628 2011-21 JEEP GRAND CHEROKEE 3.6L ENGINE SINGLE-OUT EXHAUST

OVERVIEW:

1. Take a moment to read and understand these instructions before installing your Flowmaster performance system.

NOTE: Please inventory all parts now before continuing and if necessary, report any missing items to our tech line. This will avoid potentially stranding your vehicle until any missing replacement parts arrive.

ITM #	PART #	DESCRIPTION	QTY.
N/A	PK689	Hardware Package includes:	1
5	453HA	Front Frame Hanger	2
6	MC250BS	2½" Stainless Band Clamp	3
7	HW213	1.5 x 60 Bolt	4
8	HW506	¾" x 1½" Steel Spacer	4
9	HA168	Rubber Hanger	2
10	HW503	½" Hanger Keeper	2
11	HW303	¾" Flat Washer	4

ITM #	PART #	DESCRIPTION	QTY.
1	15167S	Right Resonator	1
2	15168S	Left Resonator	1
3	16937S	Y-Pipe Assembly	1
4	852559-300	Right Muffler	1

REMOVE STOCK EXHAUST SYSTEM:

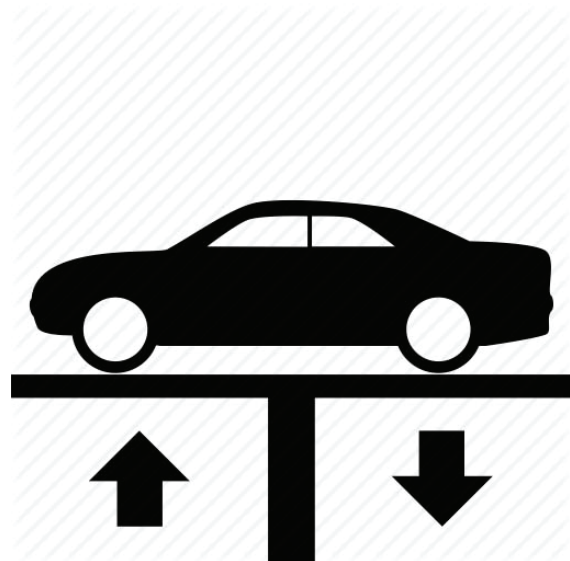
2. Raise vehicle up on a hoist or rack to working height. If you don't have access to a hoist or rack, support vehicle with jack stands.

WARNING:

Avoid serious burns! Allow your vehicle time to cool completely before touching any factory engine components.

To ease preparation and installation of your new kit:

- Apply penetrating lubricant to mounts, bolts and clamps before you remove them.
- Use stands as necessary to support parts as you detach them from your vehicle and again as you install new parts.

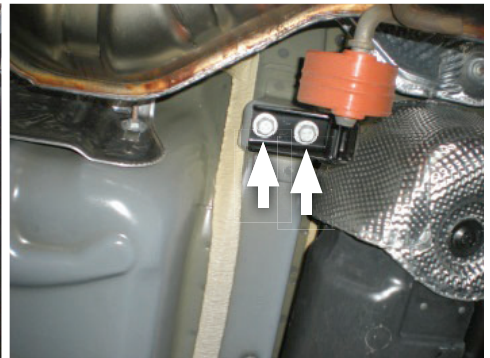
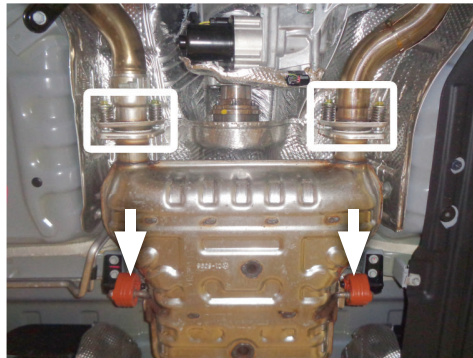
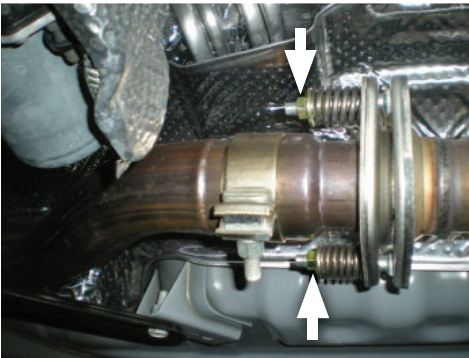


3. Support rear exhaust pipe with stands, then remove (x2) wire hangers from isolators securing it in place.



4. Remove fasteners and disconnect exhaust at front flange connections (x2). Retain (x4 ea.) springs and nuts. Disconnect wire hangers from isolators then remove entire system from vehicle and set it aside.

5. Remove and retain (x4) bolts that attach first set of factory hanger mounts behind front flange connections.



INSTALL FLOWMASTER EXHAUST SYSTEM:

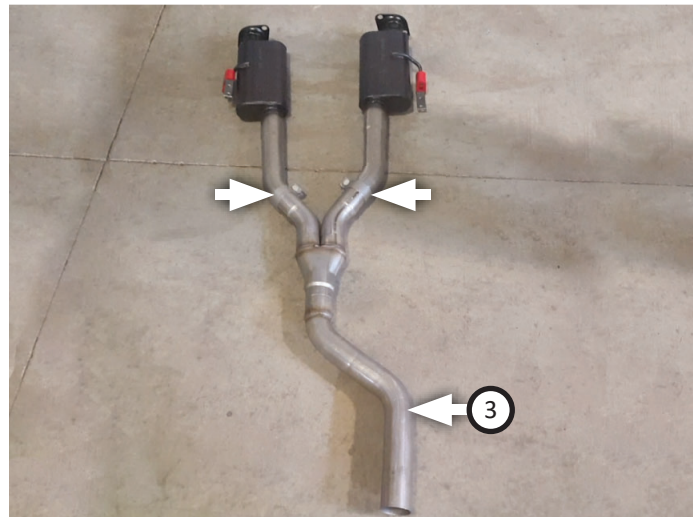
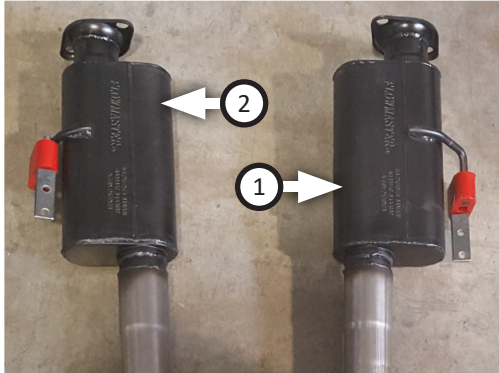
6. Remove nuts from stock and Flowmaster clamps, apply anti-seize compound to bolts and re-install nuts.

NOTE: The image in this step is intended for illustrative purposes only and may or may not accurately reflect components included in your kit.

7. Every slip fit connection in this kit must seat 3" deep. Find all slip fit components in your kit and mark them accordingly so your Flowmaster exhaust system fits properly onto your vehicle.



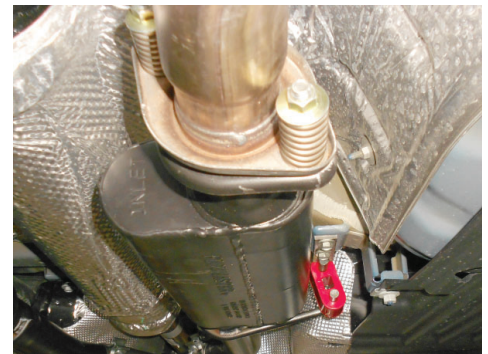
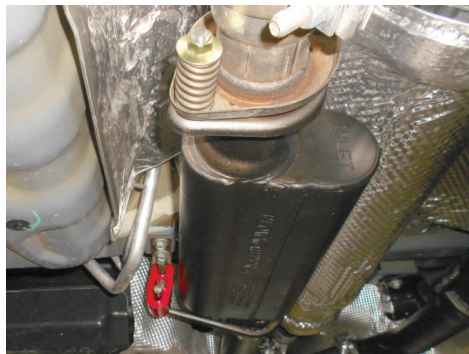
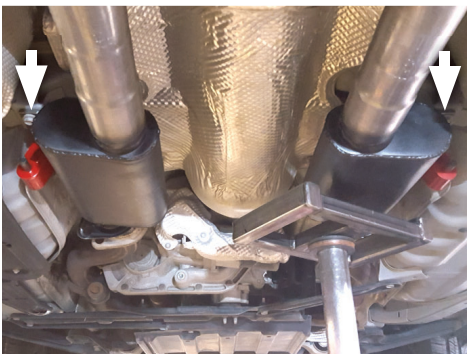
8. Place (x2 ea.) **rubber hangers (9)** and **front frame hangers (5)** onto **left (2)** and **right (1)** resonators. Place (x2) **clamps (6)** onto **Y-pipe (3)** then connect resonators to it. Tighten clamps just enough to connect parts.



9. Set stands in place under vehicle to hold y-pipe assembly in place then set Y-pipe on stands.



10. Secure Y-pipe in place by securing hangers with bolts (removed step 5). Then connect flanges with (x2 ea.) **steel spacers (8)**, **bolts (7)**, **flat washers (11)** and springs (removed step 4).



11. Place **clamp (6)** onto **right muffler (4)** then connect it to y-pipe outlet. Insert wire hangers into rubber hangers then tighten clamp enough to hold parts.



12. Adjust exhaust components for fit; maintaining $\frac{1}{2}$ " clearance and compensating for suspension, travel and vibration then tighten all clamps. Finally, fit (x2) **hanger keepers (10)** onto each hanger.
13. Recommended: Secure slip-fit connections with a 1-inch tack weld then spray high-temp paint over each weld to prevent rust and premature corrosion.



Congratulations, the installation of your FLOWMASTER performance exhaust system is now complete!





Installation Diagram
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