FLOWMASTER INC.
THE PERFORMANCE TECHNOLOGY COMPANY

OUTLAW SERIES

Installation Instructions

817981

21-27 FORD F-150
2.7T, 3.5T & 5.0L ENGINE
2- or 4-WHEEL DRIVE, ALL WHEELBASES

(Does not fit vehicles equipped with factory dual 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.
1	26848S	Inlet Pipe	1
2	26277S	Extension Pipe	1
3	8430155-Z	Muffler	1
4	26533S	Right Tailpipe	1
5	26534S	Left Overaxle Pipe	1
6	26535S	Left Rear Tailpipe	1

ITM #	PART #	DESCRIPTION	QTY.
8	26537S	Rear Exit Pipe	2
9	ST462B	Tip	2
N/A	PK1064	Hardware Package includes:	1
10	490HA	Front Clamp Hanger	1
11	525HA	Left Frame Hanger	1
12	HA566	Backing Plate	1
13	MC300BS	3" Stainless Band Clamp	7
14	HW502	7/16" Hanger Keeper	2
15	SF059	Flange	1
16	HA168	Rubber Hanger	1
17	HW234	3/8" x 3.50" Bolt	1
18	HW309	3/8" Lock Washer	1
19	HW103	3/8" Nut	1

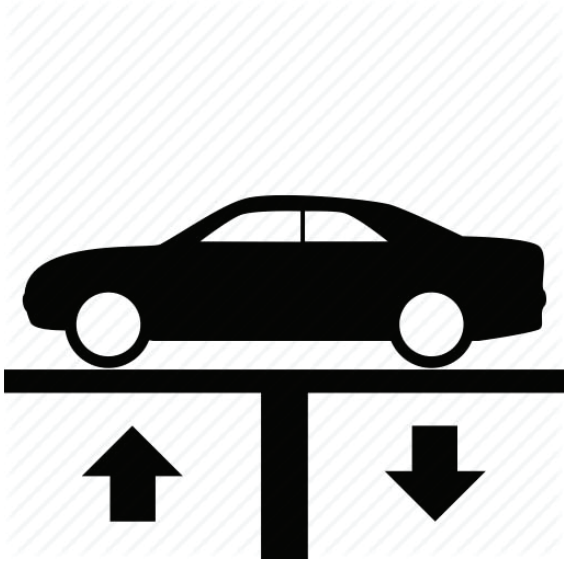
REMOVE STOCK EXHAUST SYSTEM:

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. Cut tailpipe at muffler exit. Disassemble hanger wires from isolators and remove tailpipe section from vehicle.



4. Support muffler and disassemble wire hangers from isolators. Remove and retain (x2 ea.) flange nuts and bolts, disconnect inlet pipe and remove exhaust system.



INSTALL FLOWMASTER EXHAUST SYSTEM:

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

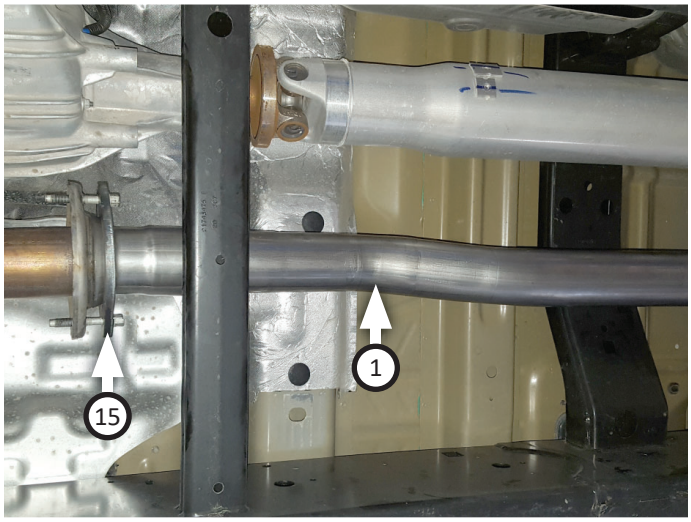
NOTE: The image in this step is intended for illustrative purposes only and may or may not accurately reflect components included in your kit.



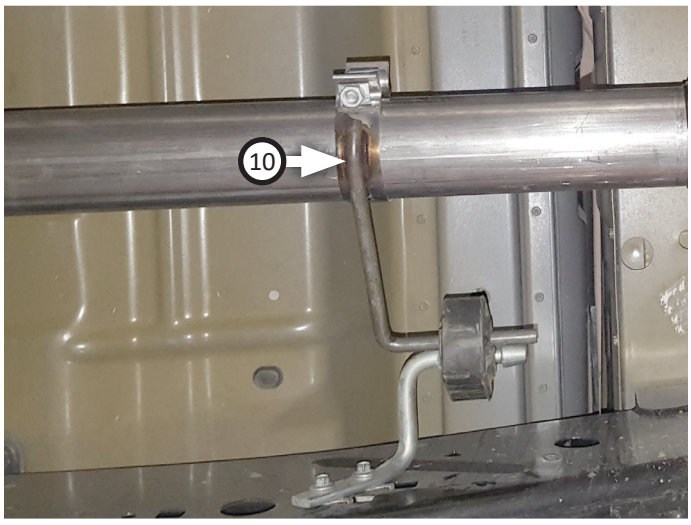
6. If your vehicle falls within the specifications listed below, apply the corresponding modifications or assembly combinations to this kit to ensure it will install properly.

WHEEL BASE	BODY STYLE	BED LENGTH	INLET ASSY:	MODIFICATION
141"	Regular Cab	8'	Inlet Pipe only	Trim 4" from inlet pipe
122"	Regular Cab	6’5	Inlet Pipe only	Trim 22.5" from inlet pipe
145"	SuperCrew	5'5	Inlet Pipe only	None
145"	SuperCab	6'5	Inlet Pipe only	None
157"	SuperCrew	6'5	Inlet+Extension	Trim 6" from extension pipe
163"	SuperCab	8'	Inlet+Extension	None

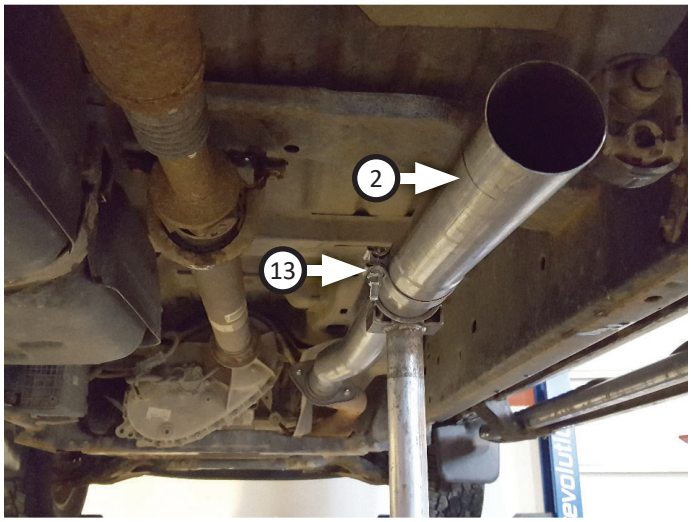
7. Place **flange (15)** on **inlet pipe (1)** then connect assembly to head pipe. Fasten flanges with (x2 ea.) nuts and bolts (removed step 4) just enough to hold parts. Reference diagram to orient inlet pipe properly.



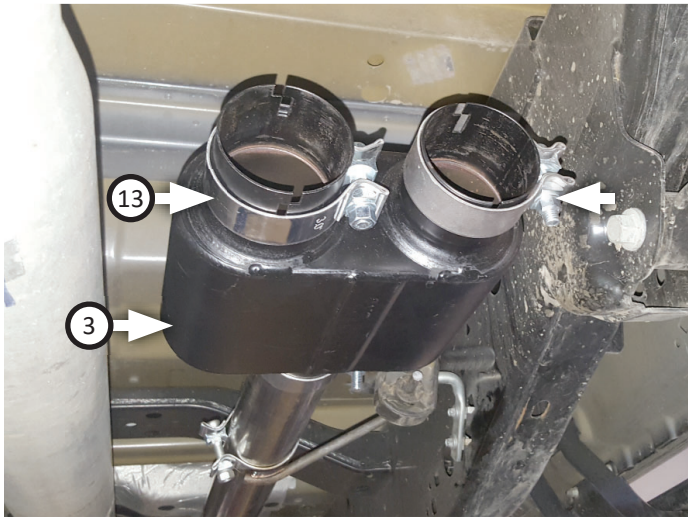
8. Slide **front clamp hanger (10)** over back of inlet pipe then insert it into factory isolator. Leave clamp loose.



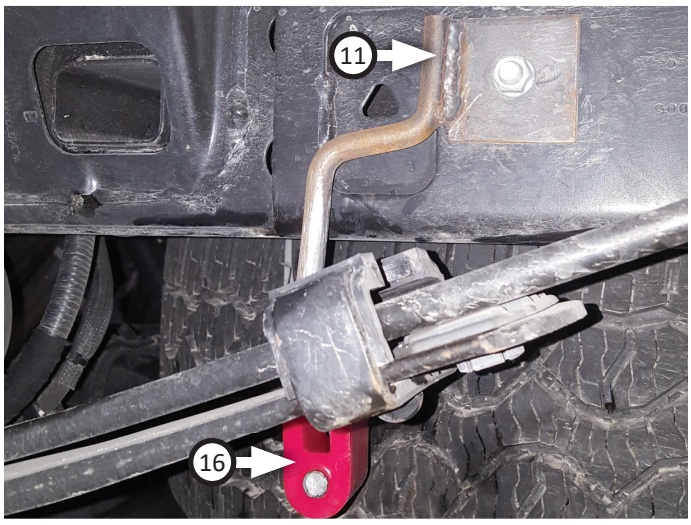
9. If applicable, place **clamp (13)** onto **extension (2)** then connect it to inlet pipe. Tighten clamp just enough to allow for adjustment.



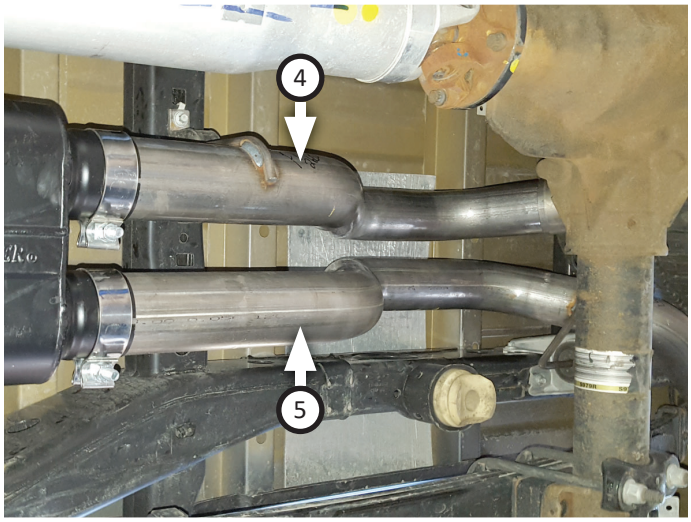
10. Place **clamp (13)** onto **muffler (3)** then connect it to inlet/extension pipe. Tighten clamp just enough to allow for adjustment then place (x2) **clamps (13)** onto muffler outlets.



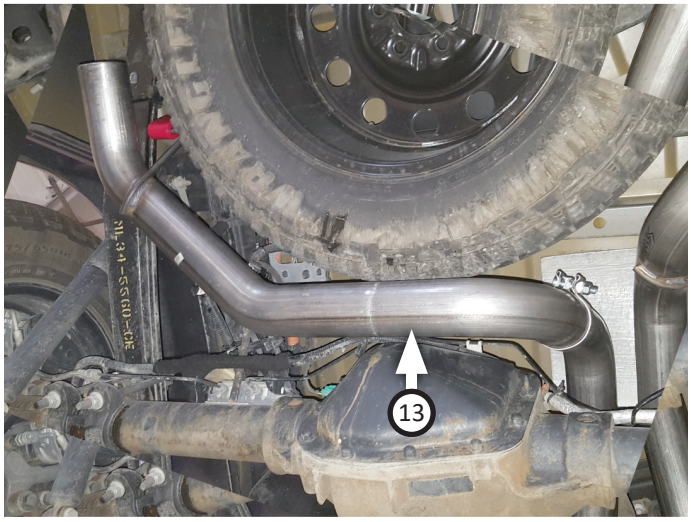
11. Fasten **frame hanger (11)** to vehicle using **bolt (17), backing plate (12), lock washer (18)** and **nut (19)** as shown. Then hang **rubber hanger (16)** on frame hanger end.



12. Route **left overaxle (5)** and **right tailpipes (4)** over axle then connect them to muffler. Insert their wire hangers into isolators then tighten clamps just enough to allow for adjustment.

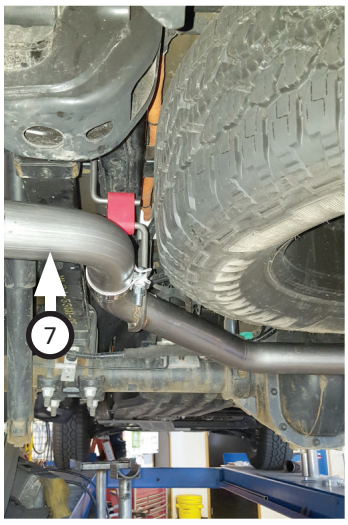


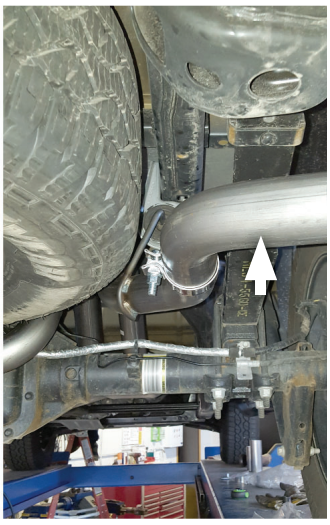
13. Place **clamp (13)** onto **left rear tailpipe (6)** then connect it to left overaxle. Insert wire hanger into rubber hanger then tighten clamp just enough to allow for later adjustment.



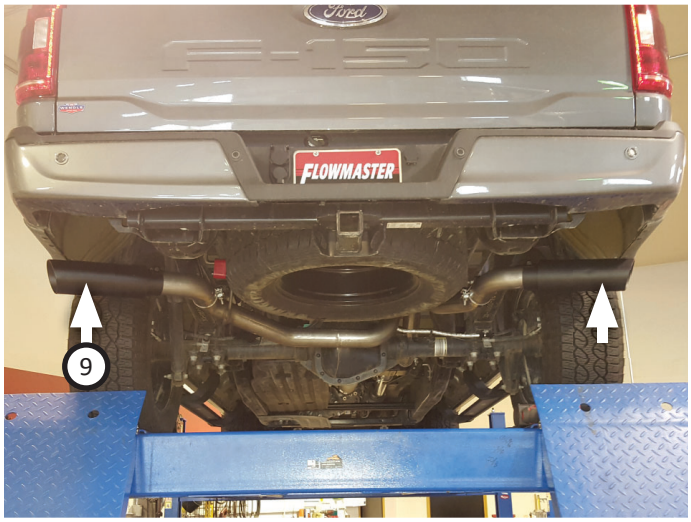
NOTE: This kit includes both side and rear exit pipes. For a rear exit exhaust, use **rear exit pipes (8)** now in place of side exit pipes.

14. Place (x2 ea.) **clamps (13)** onto **side exit pipe (7)** then connect them to tailpipes and tighten clamps just enough to allow for later adjustment.

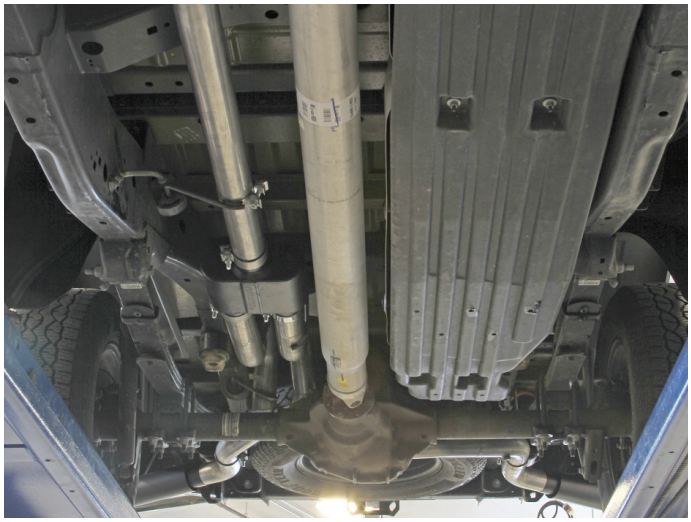




15. Place (x2) **tips (9)** onto exit pipes and tighten inlets. Rotate exit pipes and tips to desired distance from body or bumper, so angle cut on tips are properly positioned.



16. Adjust exhaust components for fit; maintaining ½" clearance and compensating for suspension, travel and vibration, then tighten all clamps. Finally, fit (x2) **hanger keepers (14)** onto each sideways hanger.
17. 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!



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Installation Diagram

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