Installation Instructions

818229

2021-2027

F150 Regular Cab Short Bed

2 or 4-Wheel Drive

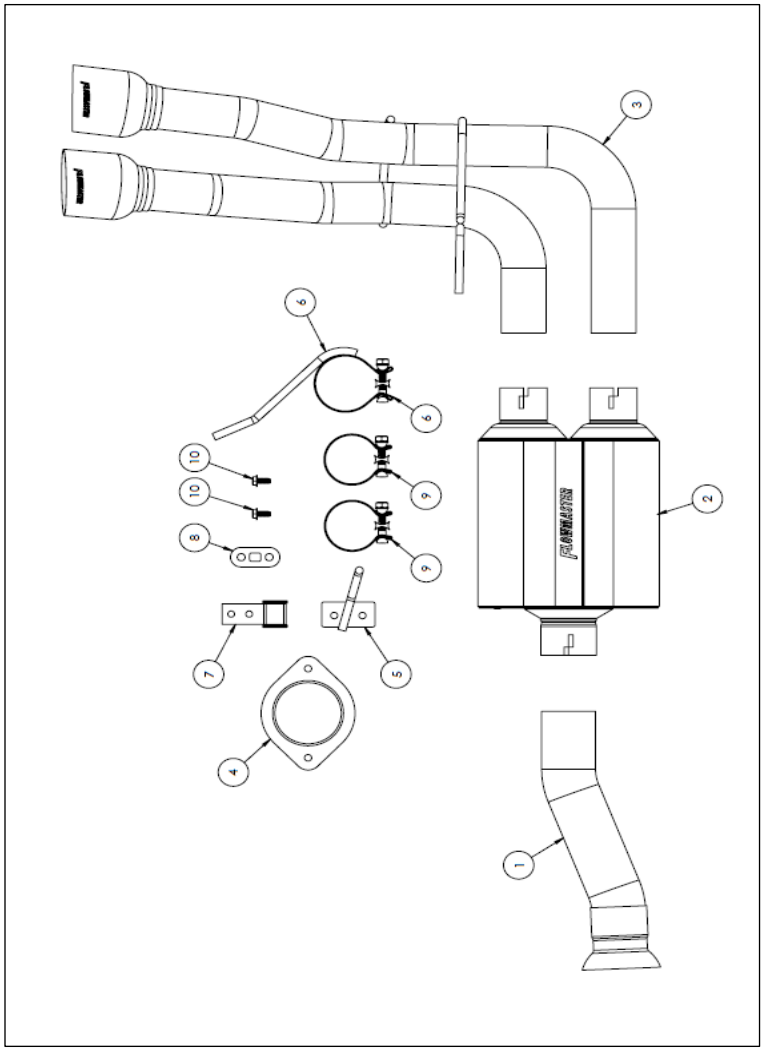
Installation requires moderate mechanical skill. If this job is beyond your abilities, seek the services of a qualified technician.

If you do not understand any part of these instructions, please call Flowmaster Technical Support at (866) 464-6553 for assistance.

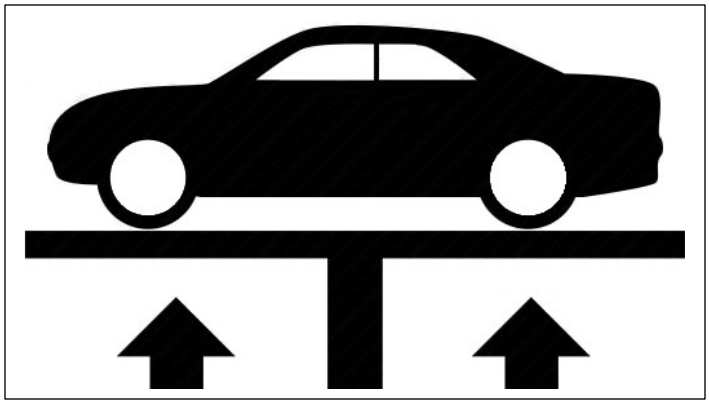
Apply penetrating oil generously to clamps, fasteners, pipes, and hanger rods for ease of disassembly.

REVIEW THE INSTRUCTIONS & VERIFY THE KIT CONTENTS

Take a moment to read and understand these instructions before installing your Flowmaster exhaust kit.



Item	Part Number	Description	Qty
1	27044S	Muffler Inlet Pipe	1
2	8530013-Z	Outlaw Muffler	1
3	27049S	Tail Pipe Assembly	1
4	SF059	Inlet Pipe Flange	1
5	526HA	Frame Hanger Assembly	1
6	527HA	Front Clamp Hanger	1
7	HA572	2 Hole Universal Hanger	1
8	HA168	Red Rubber Hanger	1
9	MC250BS	2.5” Band Clamp	2
10	HW225	5/16 -18 Self Threading Bolt	2



Vehicle Compatibility

Model Year: **2021- 2027**
Make: **Ford**
Model: **F150 Regular Cab Short Bed**
Engine: **2.7,3.5,5.0 Liter**
***Will Only Fit Regular Cab Short Bed Trucks (6.5ft bed)**
*** Will Not Fit 3.5L Power Boost (HYBRID)**

BEFORE STARTING:

Your vehicle must be raised a minimum of 18 inches. A floor hoist is ideal. If no hoist is available, we strongly urge the use of axle stands as a safety measure. **Please read and understand these instructions and disclaimer in their entirety before attempting installation.**

CAUTION! WORK ONLY ON A LEVEL SURFACE. USE JACKS /JACK STANDS OF SUFFICIENT CAPACITY TO LIFT AND SUPPORT YOUR VEHICLE. NEVER WORK UNDER A VEHICLE SUPPORTED BY A FLOOR OR BUMPER JACK.



Before installing clamps in the following steps, remove their nuts, apply anti-seize compound to the bolt threads, and re-install the nuts.

Removing the factory exhaust

1. Loosen the 15mm nut at the band clamp on the muffler inlet pipe. Spray the connection with penetrating oil. **Fig.1**
2. Support the muffler and tail pipe.
3. Remove the bolts from the (X3) exhaust hanger brackets (A), (B), (C). **Fig. 1**
   Caution: The muffler and tail pipe assembly are one large, welded assembly and will require two people to remove from the vehicle. Cutting the tail pipe at the muffler outlet will make it possible to remove the assembly more easily.
4. Remove the muffler and tail pipe.
5. Remove the (2x) bolts from the flange at the resonator down pipe connection and remove the resonator assembly. **Fig.1**

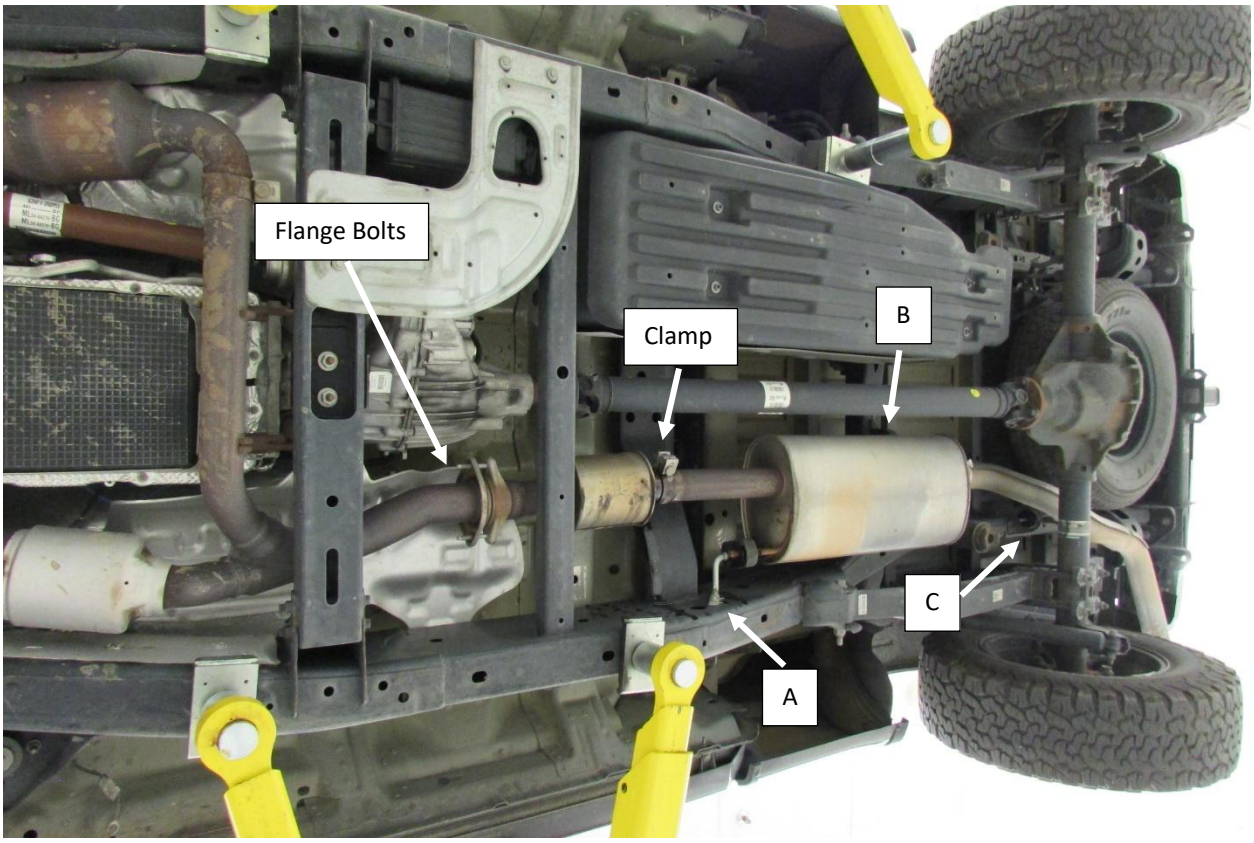


Figure.1

Installing the Flowmaster Exhaust

1. Install the supplied flange on to the inlet pipe with the machined side toward the ball flare. **Fig.2**

2. Install the supplied inlet pipe on to the factory down pipe, using the factory bolts that were removed from the resonator. Install the inlet pipe straight and level allowing ¾" space between the pipe and crossmember. **Fig.2/3**

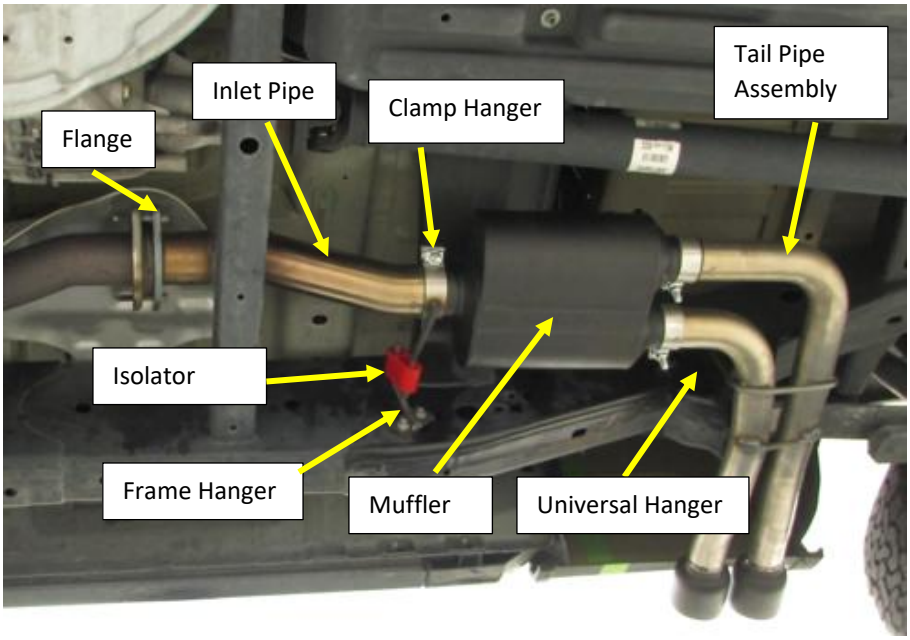


Figure.2

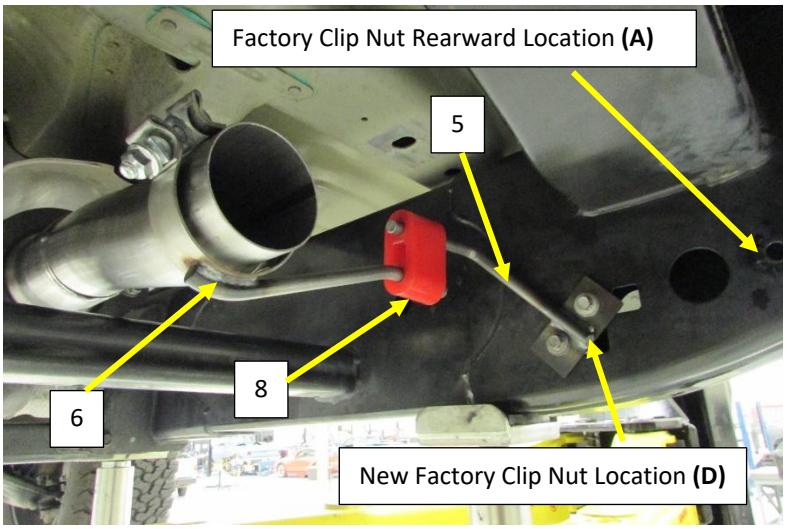


Figure.3

3. Remove the two factory Exhaust hanger clip nuts from the Front muffler hanger rearward location **(A)** and install them in the forward location **(D) Fig.3**
4. Install the frame hanger **(5)** using the factory bolts on to the clip nuts, install clamp hanger **(6)** on to the inlet pipe **(1),** Install the Isolator **(8)** as shown in **Figure.3**

Installation Continued

5. Install the 0utlaw Muffler **(2)** on to the muffler Inlet pipe **(1)**. Align the clamp hanger **(6)** with the front edge of the muffler inlet pipe and tighten to allow for adjustment. Support the muffler level and straight to the frame rail. **Fig.2/4**
6. Install the supplied 2.5" band clamps **(9)** on to the muffler outlet pipes **Fig.5**
7. Install the tail pipe assembly **(3)** into the muffler outlet pipes. Support the tailpipe assembly with the tips 1" from the bottom of the bed. **Fig.5**
8. **Note: be sure the muffler is level and parallel to the frame rail.**
9. Install the universal hanger **(7)** on to the tail pipe hanger rod with the metal tab facing up. **Fig.6** ***Do not install the self-threading bolt.**
10. Adjust the exhaust and tail pipes for best alignment and desired tip clearance to the bottom of the bed **(1/2" minimum recommended)**
11. Adjust the exhaust so the universal hanger rests flat against the frame rail. **Fig.6**
12. Double check alignment of the system.
13. Drill the frame for the top mounting hole in the universal hanger bracket **(7)** using a 17/64 drill bit.
14. Install a supplied self-threading 5/16 bolt **(10)** in the top hole. **Fig. 6**
15. Verify alignment one last time before drilling and installing the second self-threading 5/16 bolt.
16. Tighten all hardware starting at the front of the system and working to the rear.

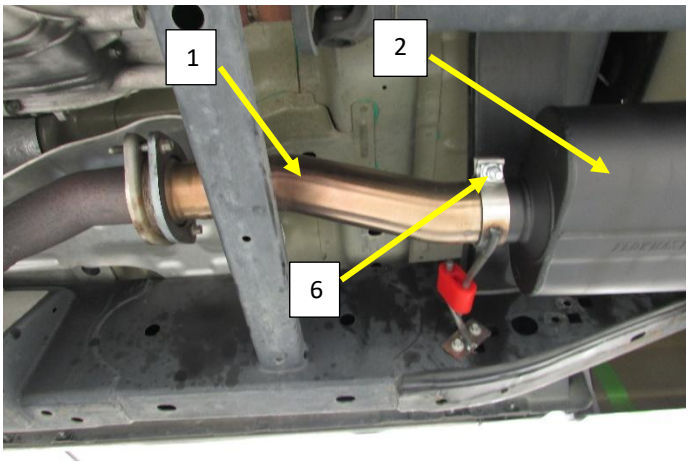


Figure.4

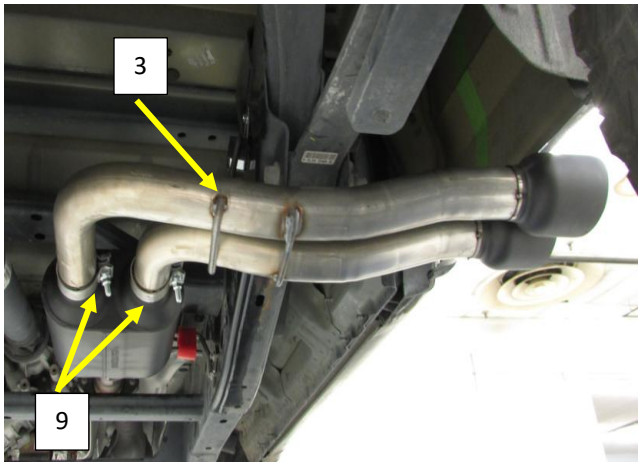


Figure.5

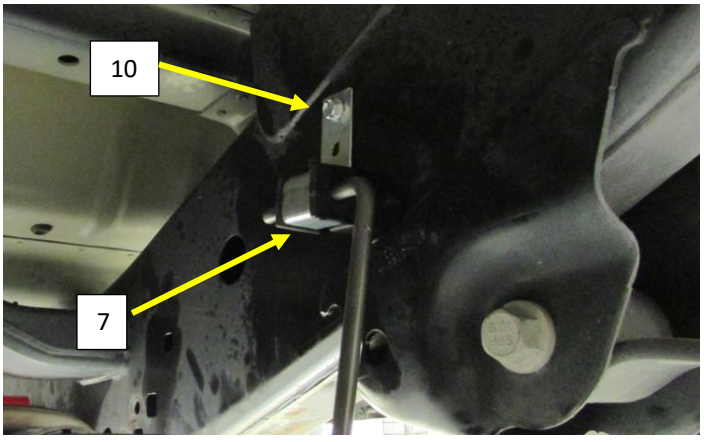


Figure.6



Enjoy Your Flowmaster Exhaust!