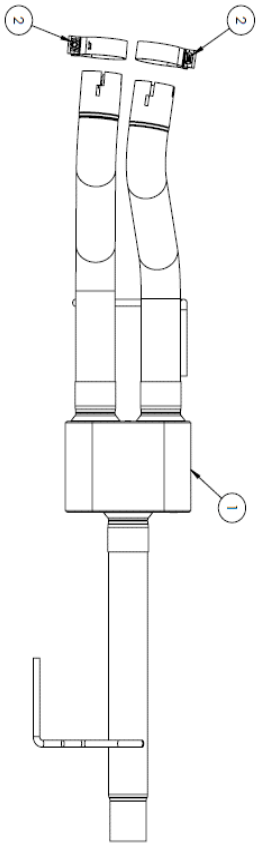
Installation Instructions

818171

2021-2027 Ford F150
2.7L, 3.5L. or 5.0L
Non-PowerBoost Vehicles
With Factory Dual Exhaust

OUTLAW SERIES



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.

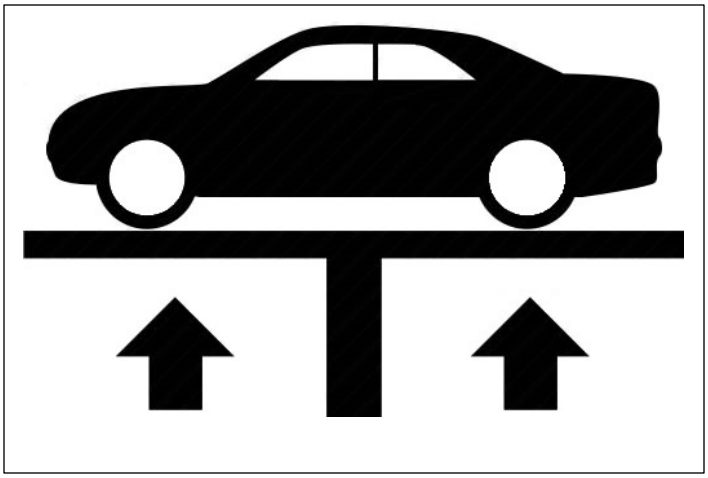
Apply penetrating oil generously to clamps, fasteners, pipes, and hanger rods for ease of disassembly.

REVIEW THE INSTRUCTIONS & VERIFY THE KIT CONTENTS

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

Item#	Part #	Description	Qty.
1	8430155-618	Muffler Assembly	1
2	MC300BS	3” Band Clamp	2

Use the parts drawing and list to identify components and verify your kit’s contents. In the unlikely event that any parts are missing, please contact Flowmaster Technical Support for replacements.



Vehicle Compatibility

Model Year: **2021-2027**
Make: **Ford F150**
Engine: **2.7L, 3.5L, 5.0L Standard Non-PowerBoost**
* Fits Non-PowerBoost trucks that were originally produced with optional Dual Exhaust out the rear Bumper.
****Will not fit PowerBoost or Trucks originally produced with single side exit exhaust.**

BEFORE STARTING:

Raise the vehicle to a minimum of eighteen 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.

Removing the OEM Exhaust:

1. Apply penetrating oil to each rubber hanger on the exhaust.
2. Loosen the 15mm nuts on the tailpipe band clamps directly over the rear axle. **Fig.1**
3. Pry back the locking retainer using a small screwdriver.
4. Remove the M10 nuts securing the tailpipe extension hanger to the rear frame structure (trailer hitch assembly)**. Fig.2**
5. Support the tailpipes.
6. Apply liberal amounts of spray lube to the slip joint at the band clamps.

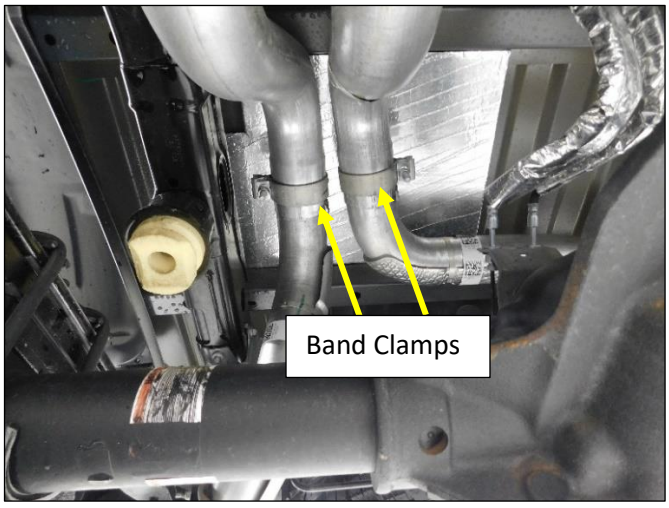


Figure 1

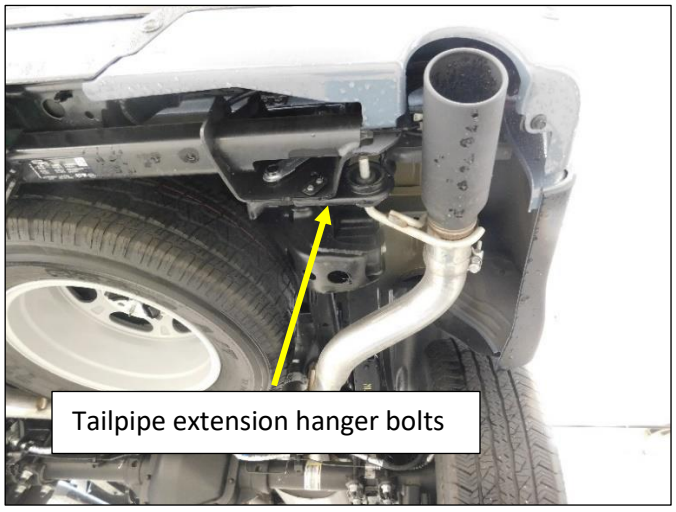


Figure 2

Removing the OEM Exhaust Continued:

7. Remove the (x2) bolts from the left and right tailpipe hangers at the frame rails. **Fig.3**

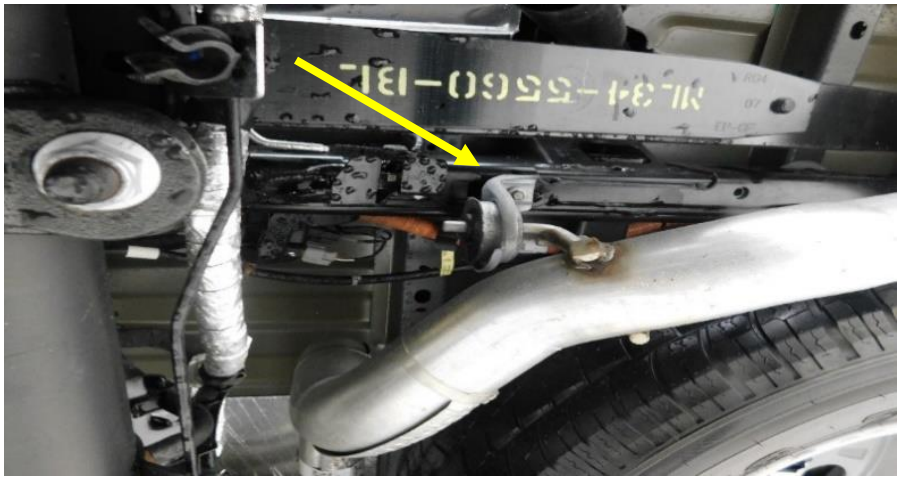


Figure.3

8. Remove the left and right tailpipes from the vehicle.
   NOTE: Removing the spare tire will make the process less difficult, but is not necessary.
9. Loosen the clamp at the slip joint between the muffler and the resonator **(A)**. **Fig.4**
10. Support the muffler with a jack stand.
11. Remove the (x2) bolts at the muffler hanger on the frame rail **(B)**. **Fig.4**
12. Remove the bolt from the muffler hanger over the muffler and remove the hanger from the cross brace **(C)**. **Fig.4**
13. Remove the muffler from the vehicle by sliding the muffler rearward off the resonator pipe. **Fig.4**

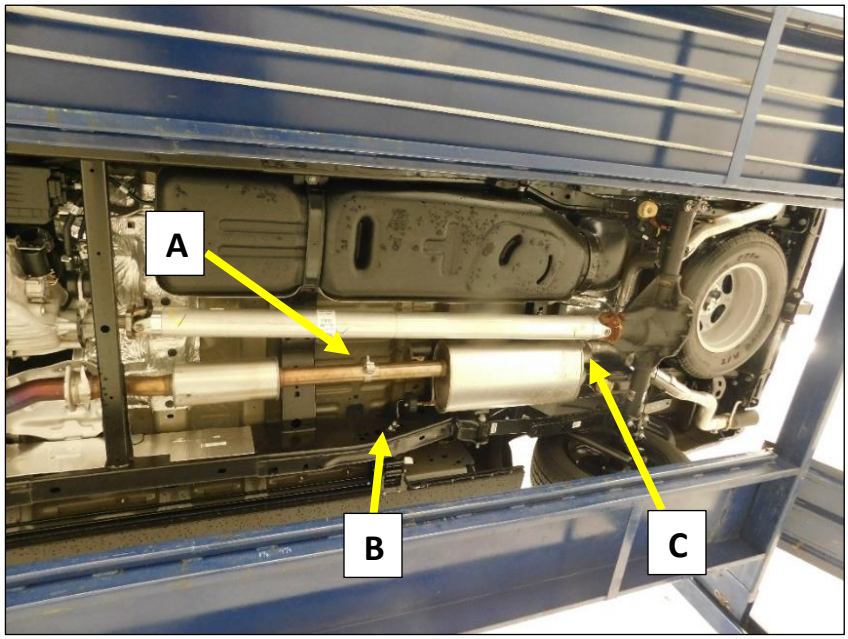


Figure 4

INSTALL YOUR FLOWMASTER EXHAUST SYSTEM

1. Install the Holley muffler assembly (1) into the outlet of the resonator pipe and support with a jack stand. **Fig.5**
2. Install the hanger rod isolator assembly (B) on to the front hanger rod **(B)**. Install the two bolts into the frame rail. Level the muffler assembly and tighten the band clamp on the resonator **Fig.6**

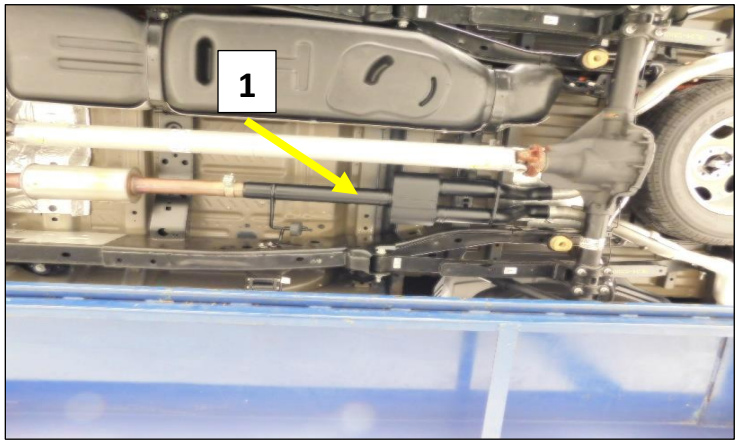


Figure 5

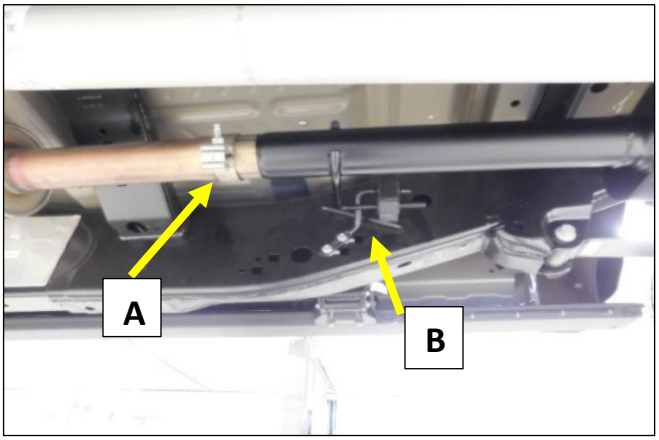


Figure 6

3. Re-install the muffler hanger assembly **(C)** on to the rear muffler hanger rod, and install the isolator assembly to the crossmember. **NOTE:** Be sure the tab of the isolator body is in the slot. **Fig.7**
4. Install a 3.0” band clamp **(2)** onto each of the two muffler outlet pipes with the bolts to the outside and the nuts facing down. **Fig.7**

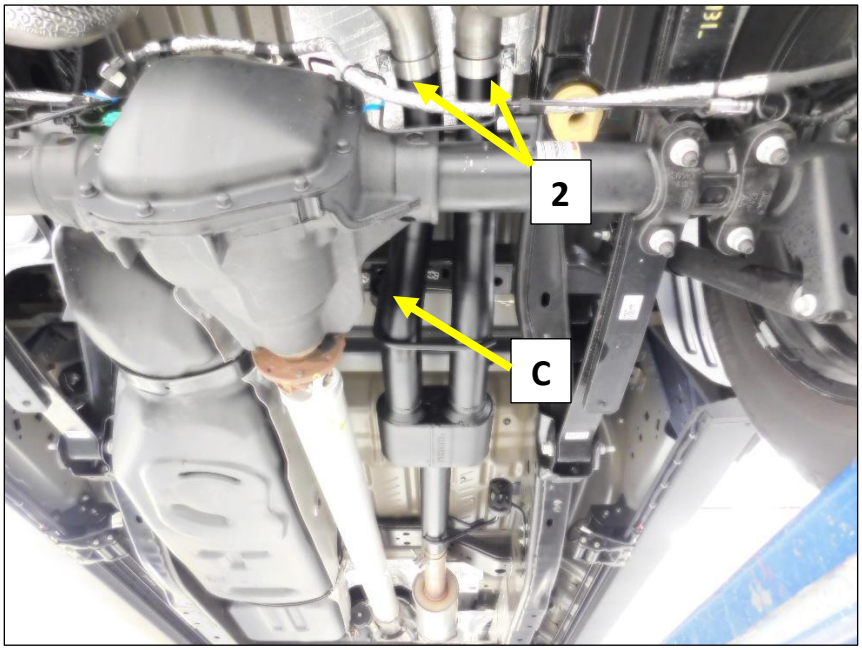


Figure 7

Installation Continued:

5. Install the right factory tailpipe over the axle and into the muffler, being sure to align the pin on the tailpipe into the slot in the expanded end of the muffler outlet pipe.
6. Install the right tailpipe frame hanger **(D)** on to the tailpipe hanger rod. Align the bolt holes to the clip nuts in the frame rail and install the bolts. **Fig.8**
7. Install the tailpipe extension hanger on to the rear tailpipe hanger rod **(E).** Align the bolt holes and mounting stud plate and install the M6 nuts. **Fig.9**
8. Repeat steps 5, 6, & 7 for the left tailpipe installation.
9. Tighten the band clamps on the muffler outlet pipes to allow for adjustment.
10. Align the tips to the bumper cut out and tighten the M6 bolts on the rear hanger assembly.

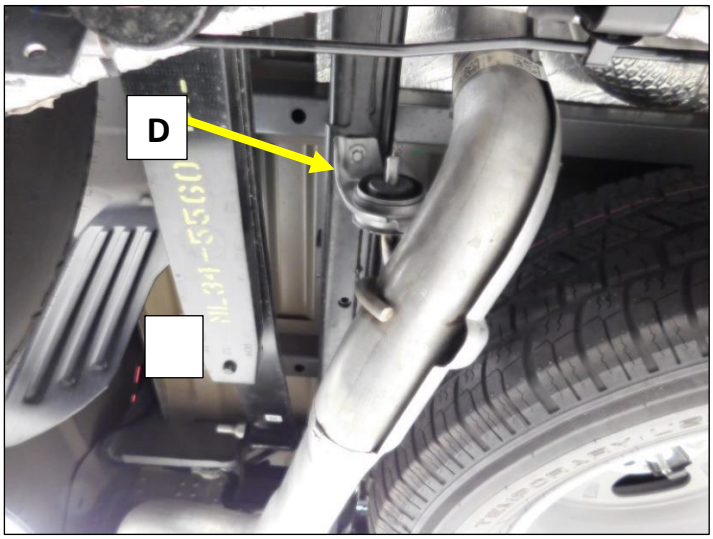


Figure 8

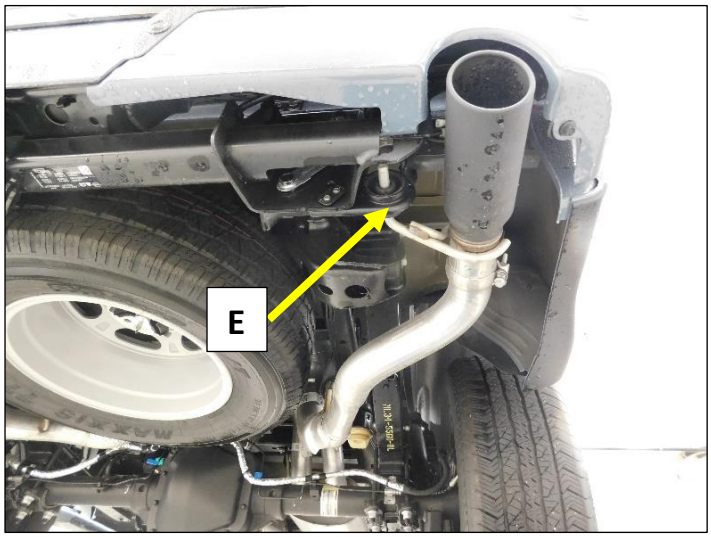


Figure 9

11. Start at the front of the system and tighten all hardware and clamps. Align the system as you go for best fitment.

Enjoy Your Flowmaster Exhaust!