Installation Instructions

# 817979

## 2021-27 FORD F-150
## 2.7T, 3.5T & 5.0L
### 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 | 8530452-176 | Muffler | 1 |
| 4 | 86327S | Right Tailpipe | 1 |
| 5 | 86323S | Left Overaxle Pipe | 1 |
| 6 | 86324S | Left Rear Tailpipe | 1 |
| 7 | 86325S | Side Exit Pipe | 2 |
| 8 | 86326S | Rear Exit Pipe | 2 |
| 9 | ST461 | Tip | 2 |
| N/A | PK1063 | Hardware Package includes: | 1 |
| 10 | 490HA | Front Clamp Hanger | 1 |
| 11 | 525HA | Left Frame Hanger | 1 |
| 12 | HA566 | Backing Plate | 1 |
| 13 | MC250BS | 2½" Stainless Band Clamp | 5 |
| 14 | MC300BS | 3" Stainless Band Clamp | 2 |
| 15 | SF059 | Flange | 1 |
| 16 | HW502 | 7/16" Hanger Keeper | 2 |
| 17 | HA168 | Rubber Hanger | 1 |
| 18 | HW234 | 3/8" x 3.50" Bolt | 1 |
| 19 | HW309 | 3/8" Lock Washer | 1 |
| 20 | HW103 | 3/8" Nut | 1 |

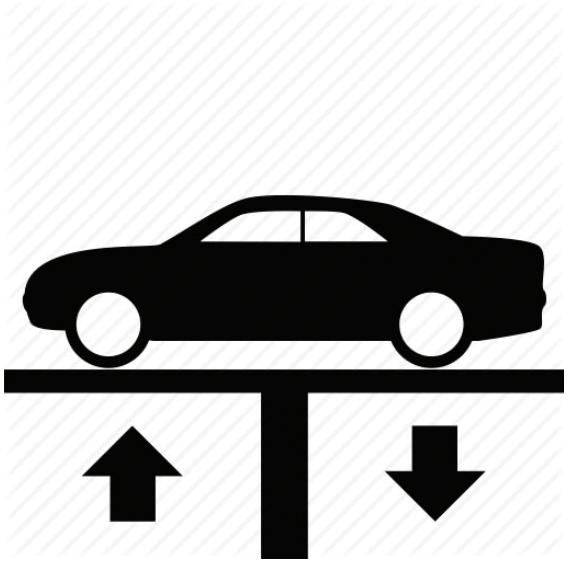
## PREPARE VEHICLE FOR KIT INSTALLATION:

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.

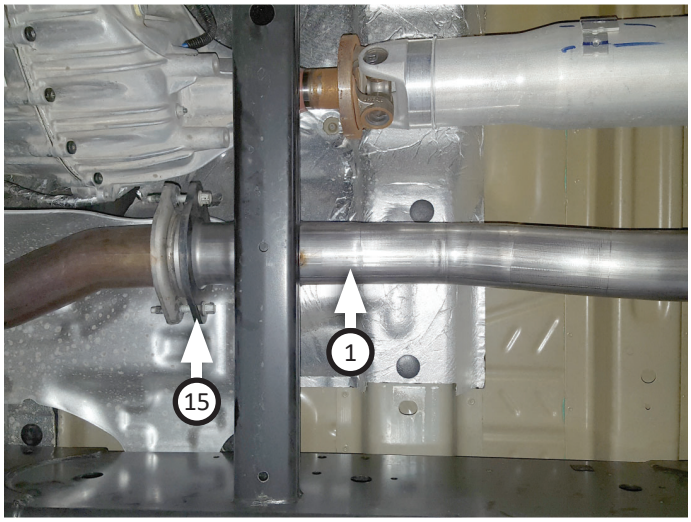
**NOTE:** The image in this step is intended for illustrative purposes only and may or may not accurately reflect components included in your kit.



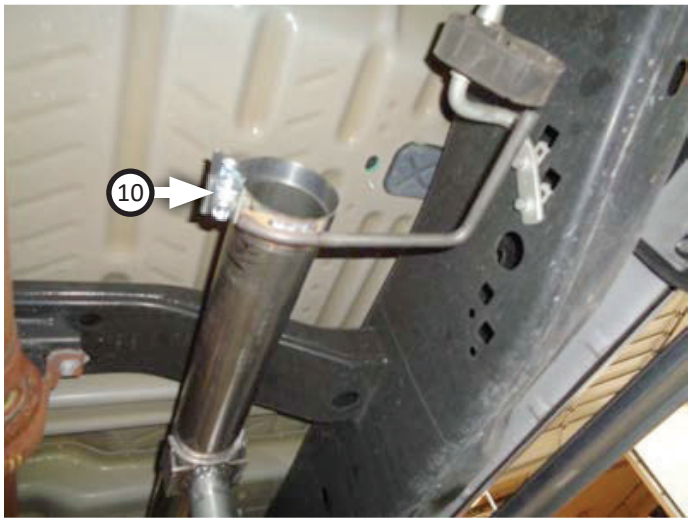
6. If your vehicle falls within the specifications listed below, apply the corresponding modifications or assembly combinations to this kit to ensure it will install properly.

| 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 |

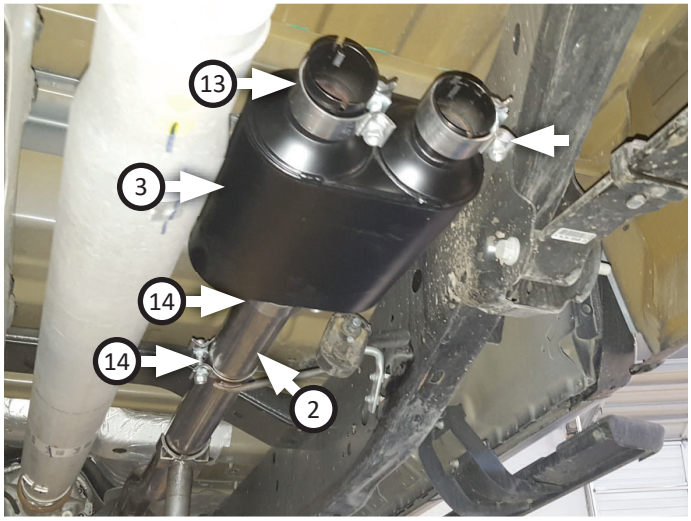
7. Place **flange (15)** on **inlet pipe (1)** then connect assembly to head pipe. Fasten flange with (x2 ea.) nuts and bolts (removed step 4) just enough to hold parts. Orient inlet pipe straight with its bend facing downward.



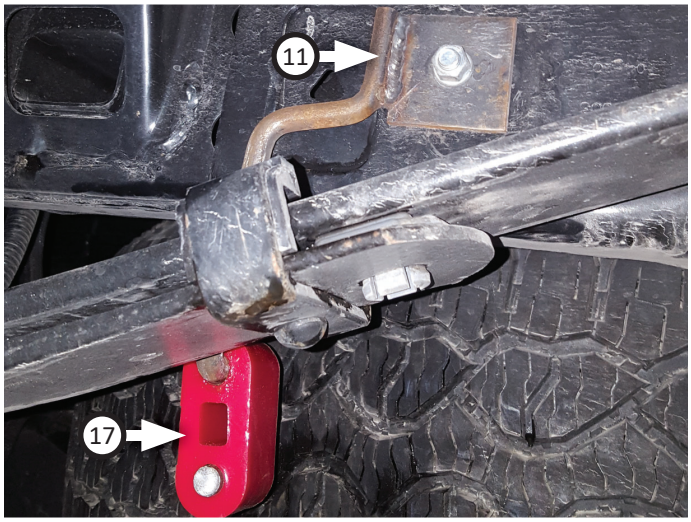

8. Slide **front clamp hanger (10)** over back of inlet pipe then insert it into factory isolator. Leave clamp loose.



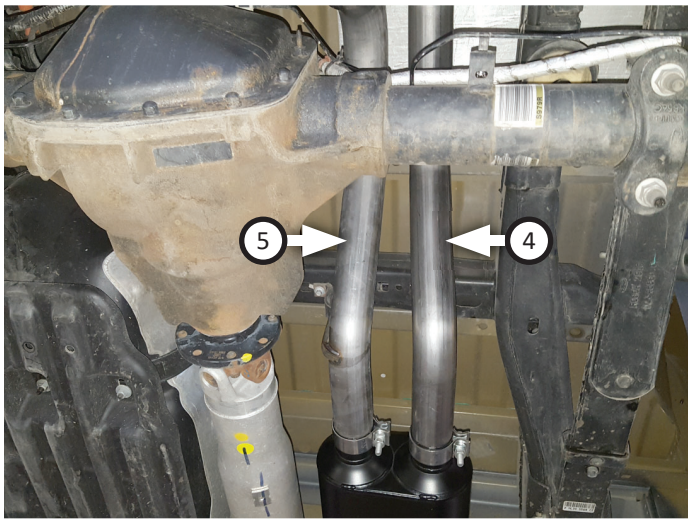
9. If applicable, place **clamp (14)** onto **extension (2)** then connect it to inlet pipe.
10. Place **clamp (14)** onto **muffler (3)**, slide it 1¾" onto inlet or extension pipe and support with a stand. Level muffler and tighten clamp at inlet enough to hold parts. Place (x2) **clamps (13)** onto muffler outlets.



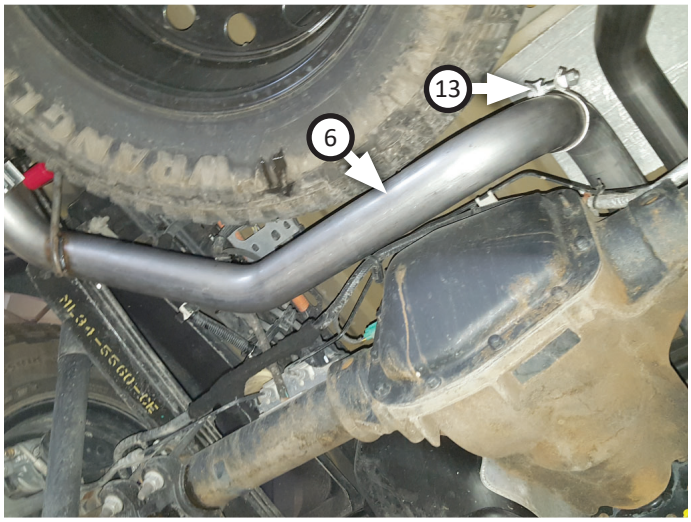

11. Fasten **left frame hanger (11)** to vehicle using **bolt (18),** (x2) **backing plate (12), lock washer (19)** and **nut (20)**. Then hang **rubber hanger (17)** on frame hanger end.




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



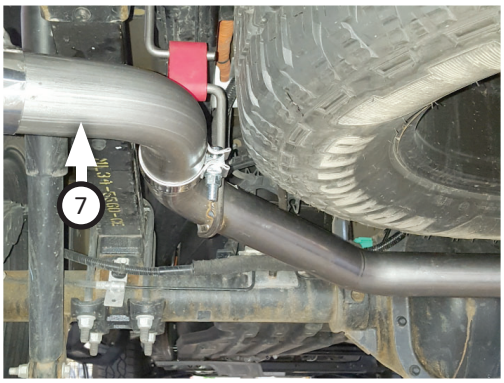
13. Place **clamp (13)** onto **left rear tailpipe (6)** then connect it to left front tailpipe. Insert wire hanger into rubber hanger then tighten clamp just enough to allow for later adjustment.

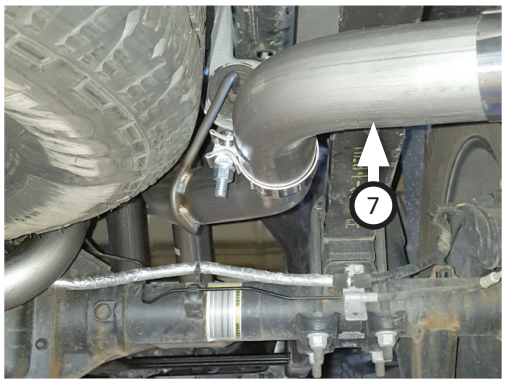



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14. Place (x2) **clamps (13)** onto **side exit pipe (7)** then connect them to tailpipes and tighten clamps just enough to allow for later adjustment.

**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.



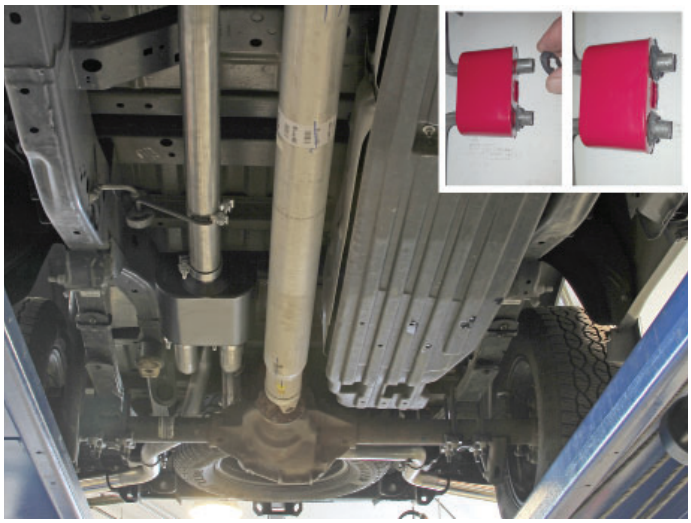




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15. Place (x2) **tips (9)** onto exit pipes and tighten inlets. Rotate exit pipes and tips to desired distance from body or bumper, so angle cut on tips are properly positioned.



16. Adjust exhaust components for fit; maintaining ½" clearance and compensating for suspension, travel and vibration, then tighten all clamps.
17. Secure exhaust system by fitting (x2) **hanger keepers (16)** onto each wire hanger that runs perpendicular to your vehicles axle.
18. 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.



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



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FLOWMASTER INC.
THE PERFORMANCE TECHNOLOGY COMPANY

Installation Diagram

# 817979

## 2021-27 FORD F-150
## 2.7T, 3.5T & 5.0L ENGINE

