



Installation Instructions  
**817859**  
**2018-19 FORD MUSTANG**  
**5.0L ENGINE**  
 Coupe & Convertible  
 without Factory Active Valve Performance 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.
5	EV700	Actuator Motor	2
6	EV701	Controller Kit, Key FOB	1
7	EV704	Wire Assembly	1
8	MC250BS	2½" Stainless Band Clamp	2
9	HW282	M6 X 1.0 X 12MM Bolt Assembly	4
10	HW283	M6 X 1.0 X 18MM Bolt Assembly	6
11	HW545	Zip Tie	10
12	HW546	16GA 5" Fuse Holder	1
13	HW547	7.5 AMP Micro Fuse	1
14	HW549	Step Down Butt Connector	1
15	HW551	18-14 Blue Piercing Wire Tap	2

ITM #	PART #	DESCRIPTION	QTY.
1	853063-551	Right Muffler	1
2	853063-552	Left Muffler	1
N/A	PK1016	Hardware Package includes:	1
3	EV208	Actuator Mount Assembly	2
4	EV501	Valve Spring	2

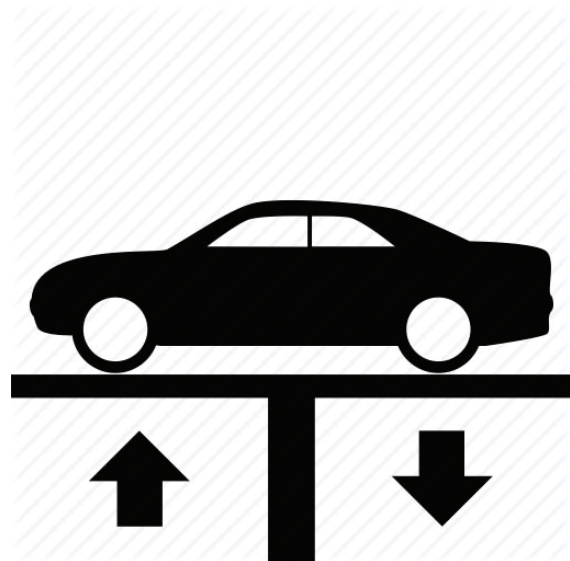
**PREPARE VEHICLE FOR KIT INSTALLATION:**

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.

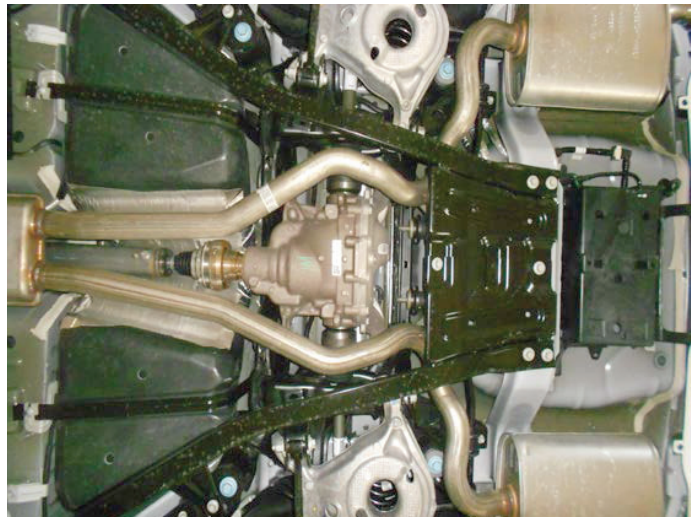
**To ease preparation and installation of your new kit:**

- 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.

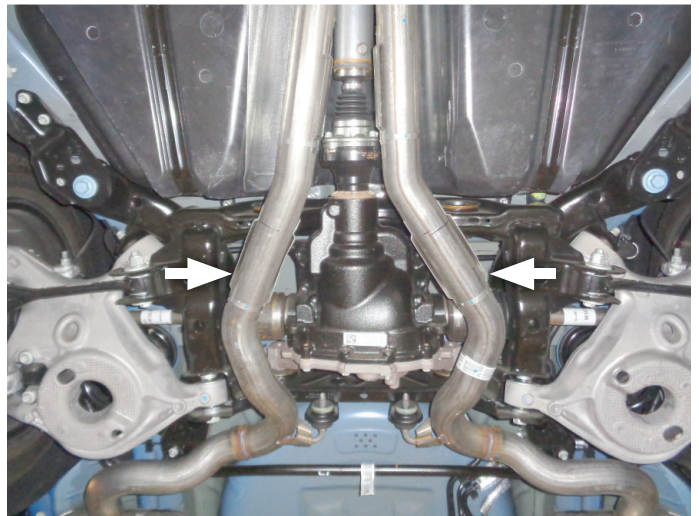


**NOTE:** This step applies only to convertible model vehicles.

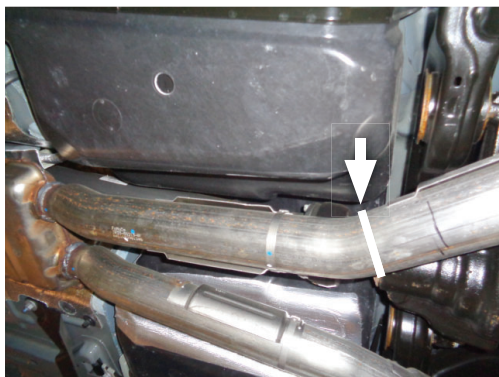
3. Remove body braces starting at front passenger brace. Loosen front bolt then working rearward, remove bolts (x8) and lower brace from vehicle. Repeat step on driver side of vehicle with remaining bolts (x6).



4. Remove heatshields by cutting through rear strap. Lift and lower them a few times to break weld at front then remove shield.

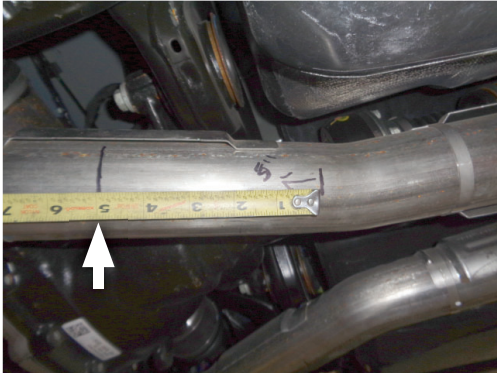


5. Mark each pipe just behind second bend (where bend straightens out). Unplug factory exhaust actuator then tuck connection up and away. Cut tailpipes at muffler exits, disassemble hanger wires and remove them.



**NOTE:** Use caution as you cut pipes to avoid cutting other engine components.

6. Double check measurements, then cut pipes 5" rearward of marks made in previous step.



7. Unbolt hangers (x2) behind rear differential from cross member. Slide muffler assemblies forward and out of hanger mounts, leaving front hangers attached. Deburr pipe ends then index and remove hanger mounts (x2).



## INSTALL FLOWMASTER EXHAUST SYSTEM

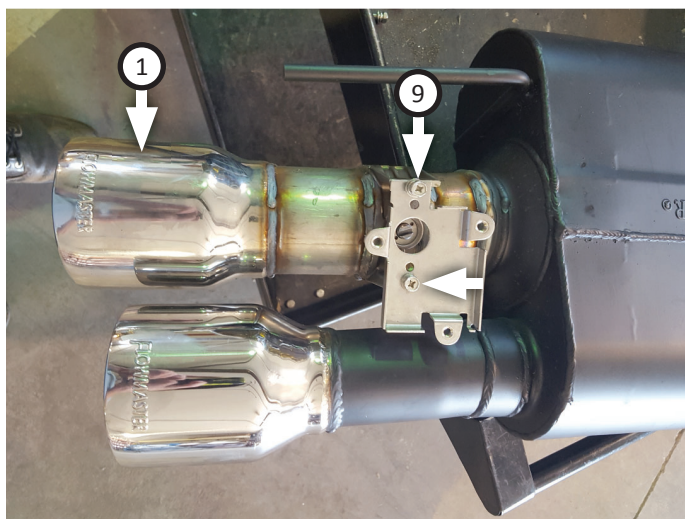
8. Remove nuts from stock and Flowmaster clamps, apply anti-seize compound to bolts and re-install nuts.

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

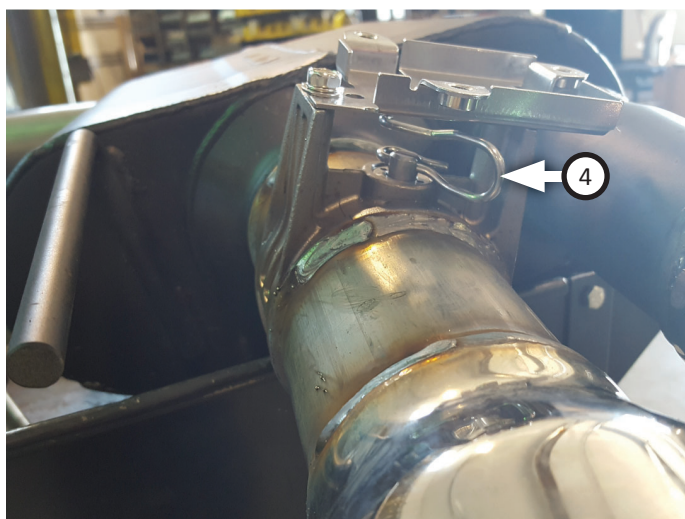
9. Every slip fit connection in this kit must seat 3" deep except for muffler connections which must seat 2" deep. Find all slip fit components in your kit and mark them accordingly so your Flowmaster exhaust system fits properly onto your vehicle.



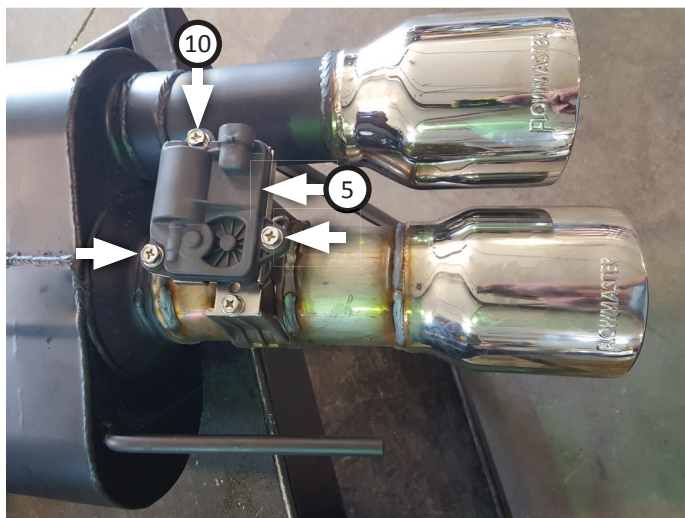
10. Set **actuator mount (3)** onto **right muffler (1)** oriented as shown. Secure them using **bolt assemblies (x2) (9)**. Repeat this step on **left muffler (2)**.



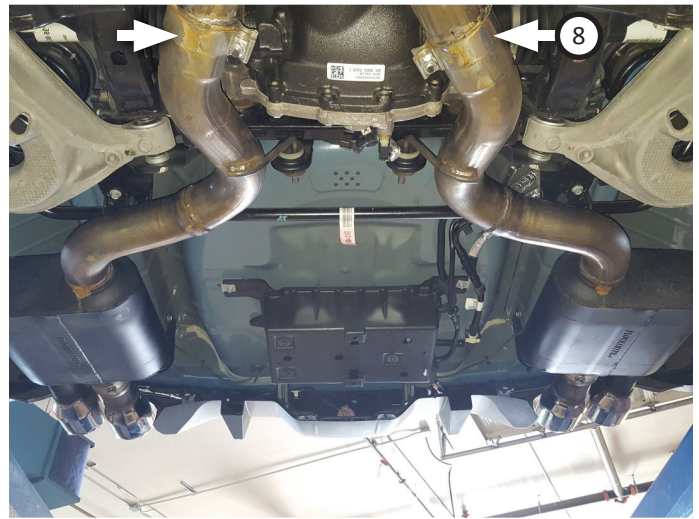
11. Place **valve spring (4)** onto right muffler outlet oriented as shown. Repeat this step on left muffler.



12. Place **actuator motor (5)** onto mount on right muffler as shown, ensuring valve spring lines up properly. Secure them using **bolt assemblies (x3) (10)**. Repeat this step on left muffler.



13. Transfer hanger mounts (removed step 7) onto mufflers and place **clamps (x2) (8)** on inlets. Connect mufflers to exhaust and secure hanger mounts to frame. Finally, tighten clamps just enough to allow for adjustment.



14. Plug **wire assembly (7)** connector ends into left and right muffler actuator motors.



15. Open trunk and remove spare tire cover. Cut slit or "x" in access point, apply lubricant to opening then push wire connector through it.



16. Pull enough of wire assembly up through access point to reach front of vehicle. Route it under carpet to front passenger corner of trunk and push it through into vehicle cab.



17. Lift rear seat, pull wire outside of seat bracket and belt then follow wiring harness.

**NOTE:** Following these routing instructions carefully will prevent wire from being damaged when seat is replaced.



18. Remove left and right kick panels and bolts (x2 ea.) under each. Retain them for later use.



19. Remove screws (x2) under center console forward storage tray. Retain them for later use.

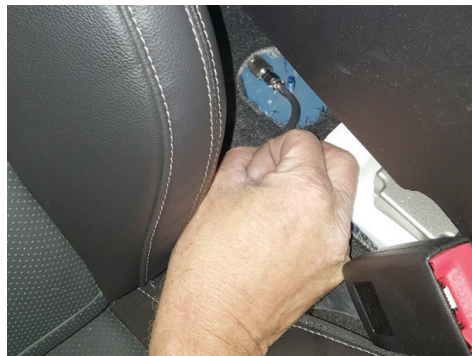
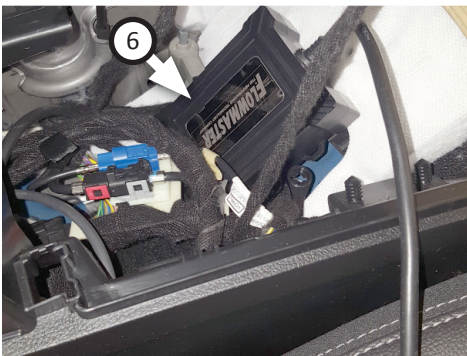


20. Lift mat inside console and remove and retain nuts (x2). Lift top portion of center console from lower portion. Find something that can block top portion up so you can work under it in following steps.

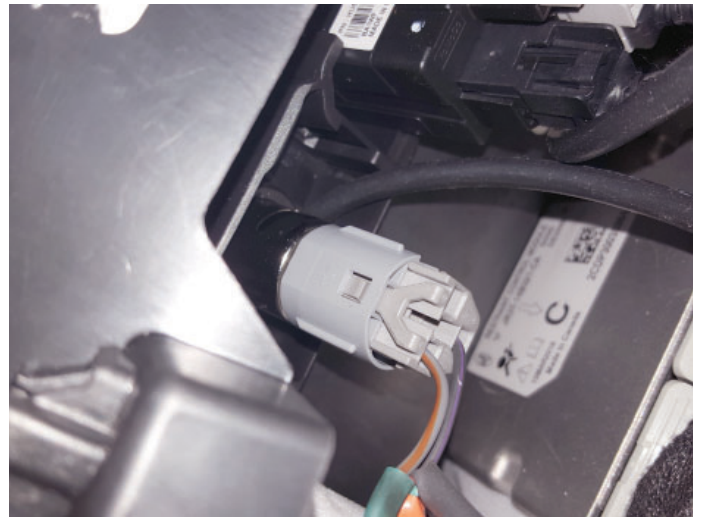


21. Set **controller kit (6)** into center console, route its wire under carpet toward center of rear seat then plug connectors together. Secure wires to factory wire harness with **zip ties (11)**.

**NOTE:** Following these routing instructions carefully will prevent wire from being damaged when seat is replaced.



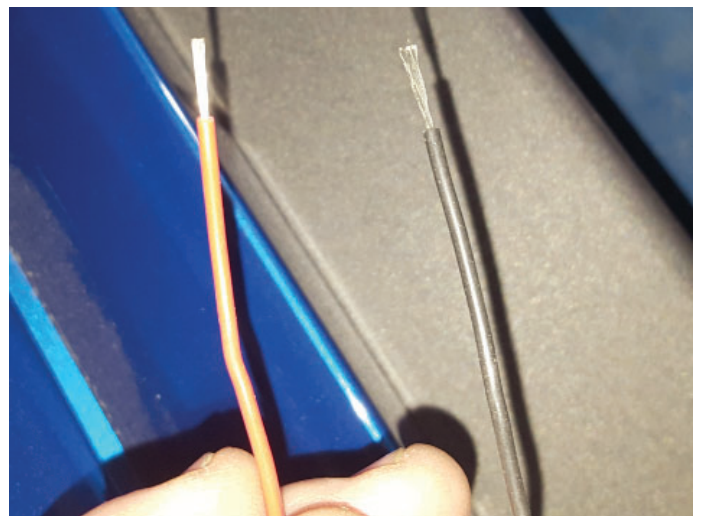
22. Locate center console rear power outlet and unplug connector.



23. Carefully strip factory loom back from plug. Using a test meter or light, turn ignition to "ON" then identify power feed and ground wires.

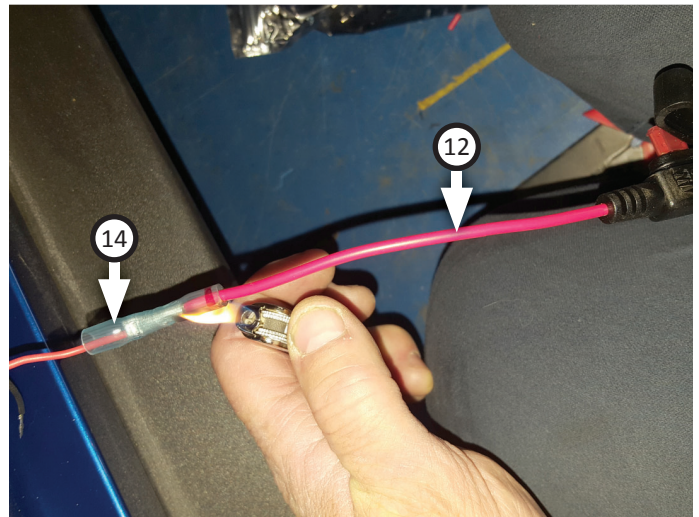


24. Cut and strip controller kit power and ground wires.

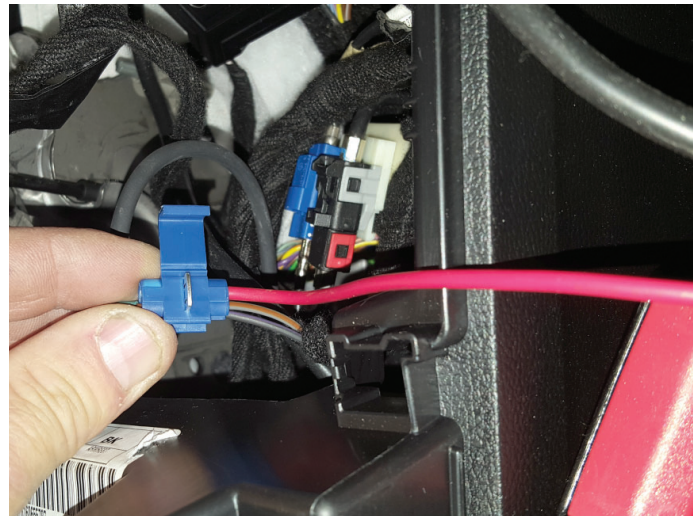
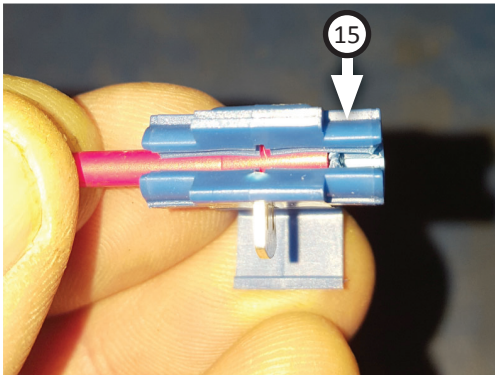




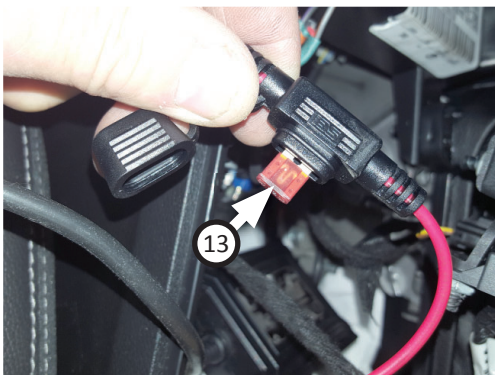
25. Strip one end of **fuse holder (12)** then crimp it to power wire on control module with **step down butt connector (14)**. Apply heat to fuse connection.



- NOTE:** Push fuse holder wire fully against wire tap stop.
26. Place remaining fuse holder wire into **wire tap (15)**. Set wire tap over controller kit power and ground wires then crimp them into place.



27. Install **fuse (13)** into fuse holder then test operation of valves. Secure controller kit module in center console where convenient.



28. Plug in connector (from step 22) then replace top portion of center console back onto lower portion.



29. Reinstall center console forward storage tray with bolts (x2) (removed step 19).



30. Reinstall bolts (x2 ea.) then left and right kick panels (removed step 18).



31. Replace rear seats and any loose flooring. Then install spare trunk cover. As you do, secure wire slack so it won't get damaged and stays in place, using zip ties as necessary.



32. Adjust exhaust components for fit; maintaining ½" clearance and compensating for suspension, travel and vibration. Secure wires away from heated or moving components with remaining zip ties then tighten all clamps.
33. 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  
**817859**  
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**5.0L ENGINE**

Coupe & Convertible  
without Factory Active Valve Performance Exhaust

