



Installation Instructions
717911
2019-21 (NEW BODY) GM SILVERADO
& SIERRA 1500
5.3L ENGINE
2/4 WD & All Wheelbases

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	8430162-543	Direct Fit FFX Muffler	1
N/A	PK1003	Hardware Pack includes:	1
2	EV208	Actuator Mount Assembly	1
3	EV501	Valve Spring	1
4	EV700	Actuator Motor	1
5	EV701	Key FOB Controller Kit	1

ITM #	PART #	DESCRIPTION	QTY.
6	EV704	Wire Assembly Controller Kit	1
7	HW283	M6 x 1.0 x 18MM Bolt w/ lock, wshr	5
8	MC234BS	2¾" Stainless Band Clamp	2
9	HW201	¼-20 x ¾ HCS Bolt	1
10	HW101	¼-20 Z 5 Nut	1
11	HW301	¼" Flat Washer	2
12	HW545	6" Cable Tie	10
13	HW546	Mic2 InLine Fuse Holder	1
14	HW547	5.7 Amp Micro2 Fuse	1
15	HW548	AWG Female Quick Disconnect	1
16	HW549	Step Down Butt Connector	1
17	EV613	Exhaust Valve Fiber Washer	2
18	EV614	Exhaust Valve Fiber Spacer	1

REMOVE STOCK EXHAUST SYSTEM:

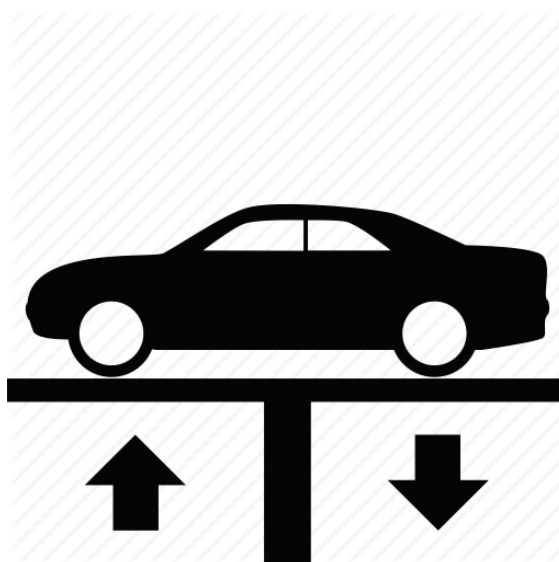
2. Raise vehicle up on a hoist or rack to working height. If you don't have access to a hoist or rack, support vehicle with jack stands.

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. Mark exhaust pipes 8¾" forward from front face of muffler and 5" rearward from back face of muffler. Cut exhaust at marks then remove section from vehicle.



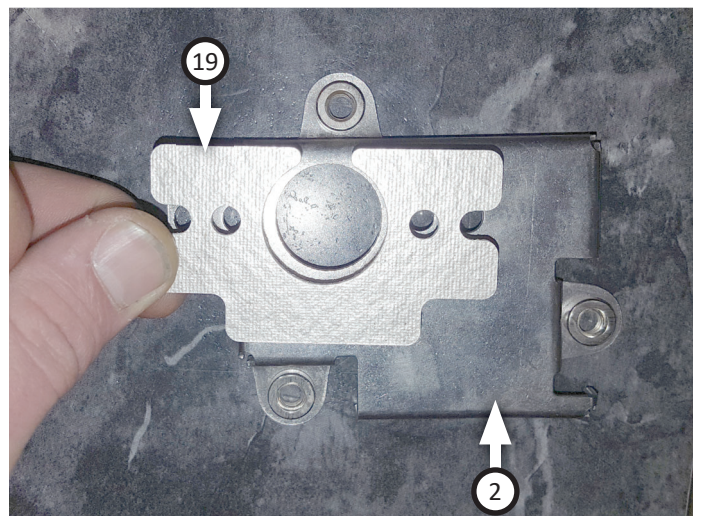
INSTALL FLOWMASTER EXHAUST SYSTEM

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

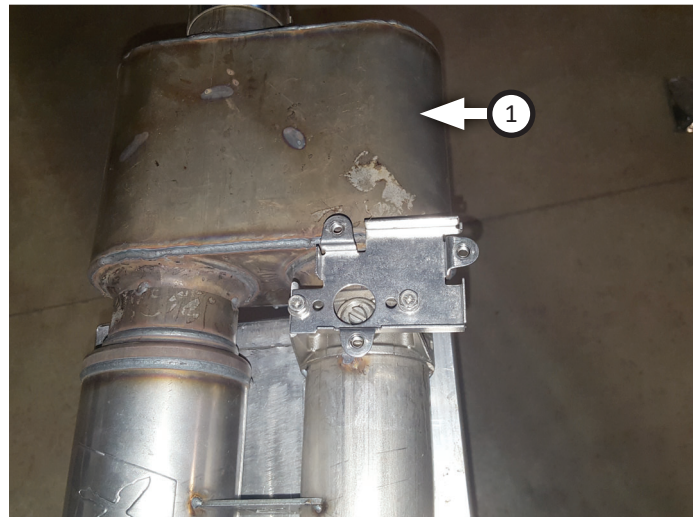
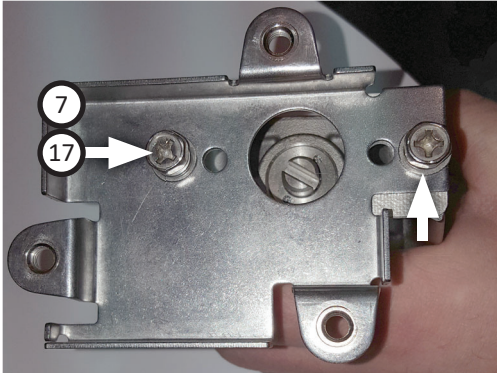
NOTE: The image in this step is intended for illustrative purposes only and may or may not accurately reflect components included in your kit.



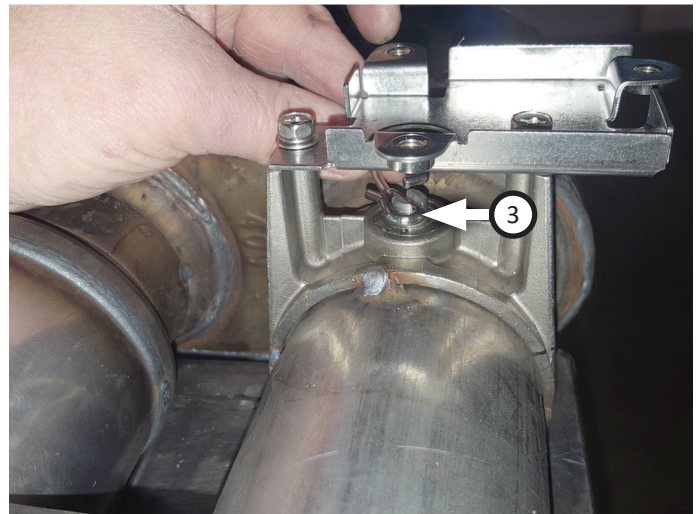
5. Place **fiber spacer (19)** onto **actuator mount assembly (2)** as shown.



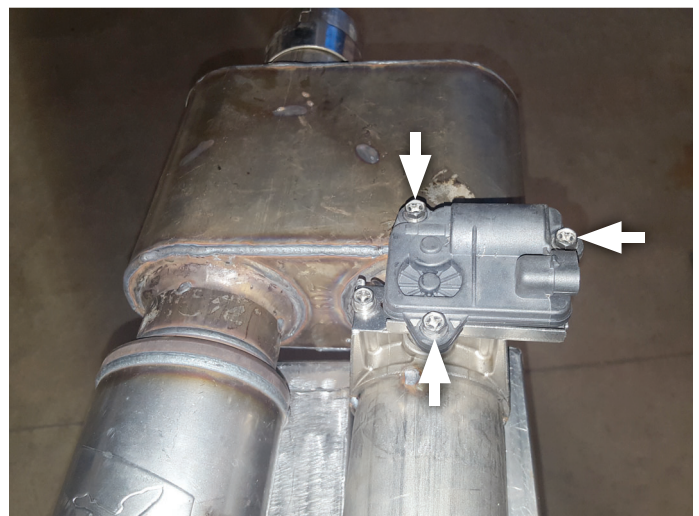
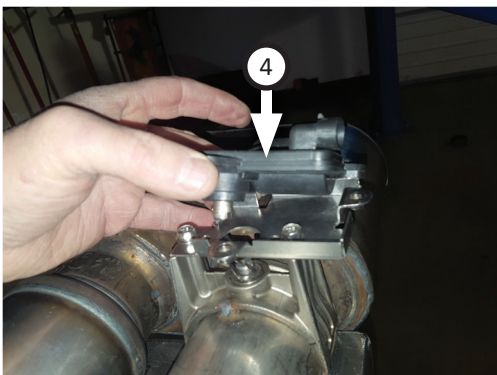
6. Place (x2 ea.) **fiber washers (17)** onto **bolt assemblies (7)** then use them to fasten actuator mount and spacer onto **FFX muffler (1)** as shown.



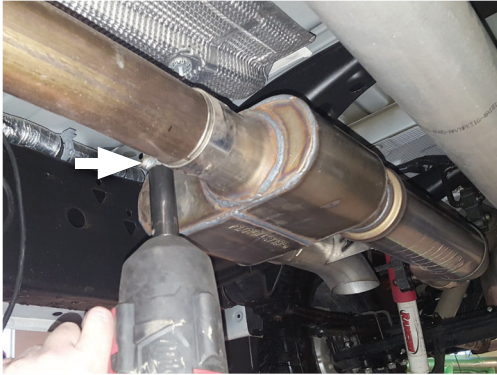
7. Place **valve spring (3)** onto groove in muffler outlet as shown.



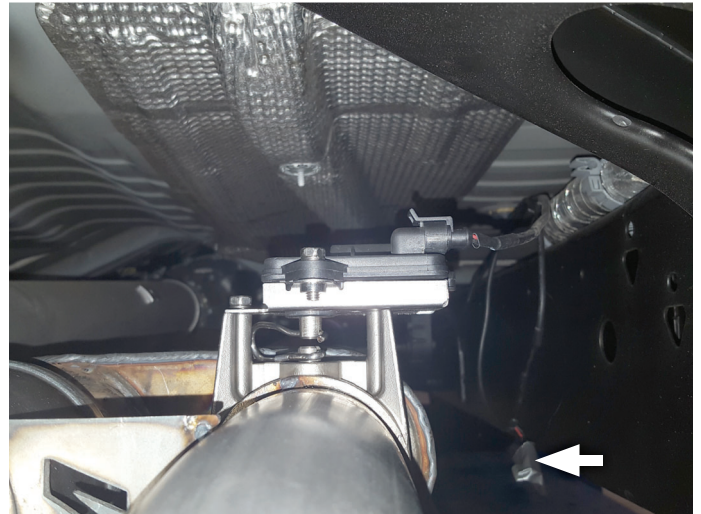
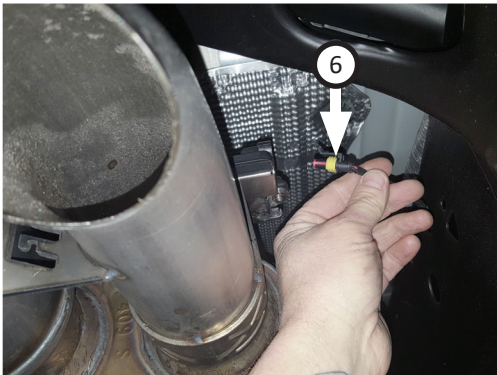
8. Place **actuator motor (4)** on actuator mount ensuring valve spring lines up properly. Secure parts using (x3) **bolt assemblies (7)**.



9. Install muffler into cut out section of factory exhaust then secure it using (x2) **clamps (8)**. Tighten them just enough to allow for adjustment.

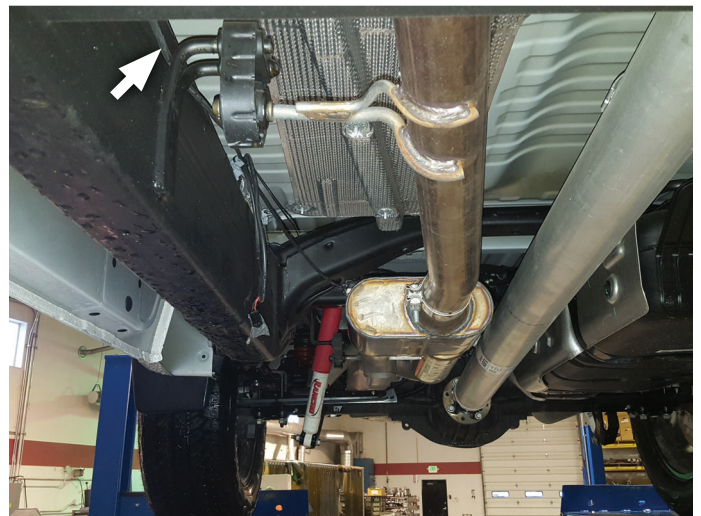


10. Plug **wire assembly (6)** end into actuator motor then tape off remaining plug in.

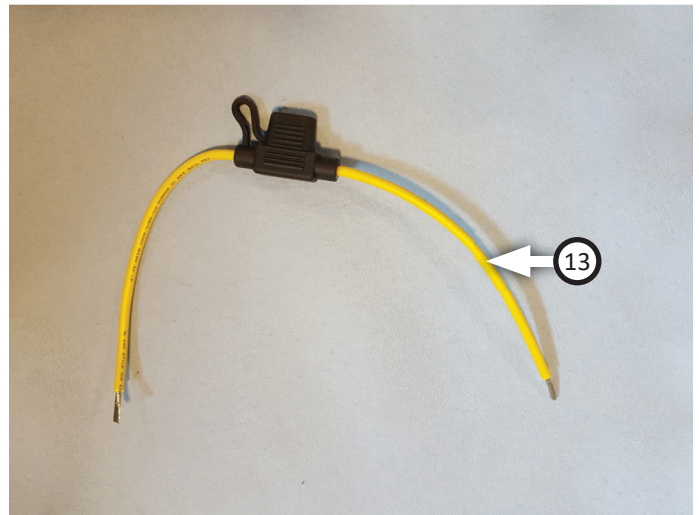


NOTE: You may secure wire assembly several different ways; **zip tie (12)** it to factory wire bundle, tuck it behind heat shield, secure it to frame, etc. Just be sure that connections are stable and wire is protected from heat.

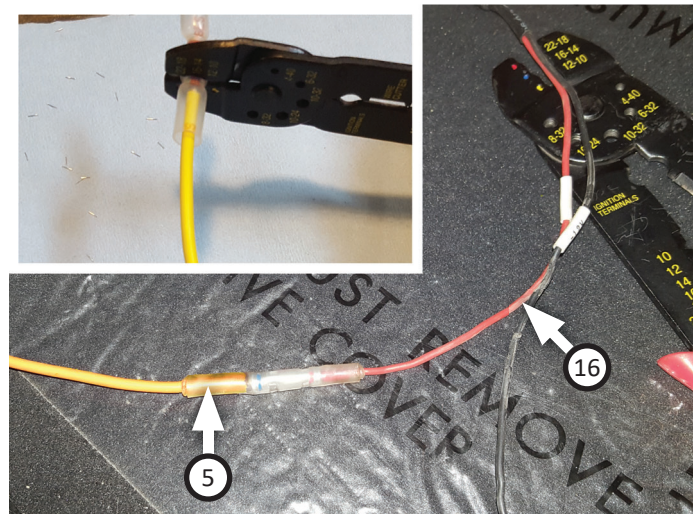
11. Route length of wire assembly along passenger side of vehicle up towards engine bay.



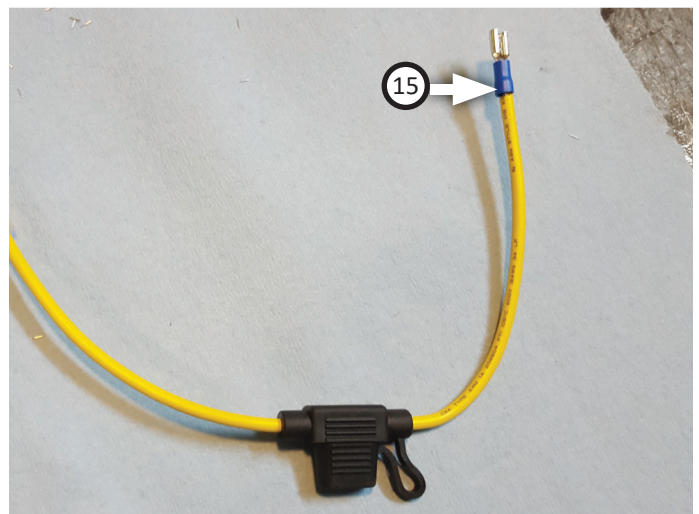
12. Strip wire at both ends of **inline fuse holder (13)**.



13. Cut off connector on end of **controller kit (5)** red wire. Place **butt connector (16)** onto inline fuse holder then attach it to red wire. Crimp connector to secure wires together.

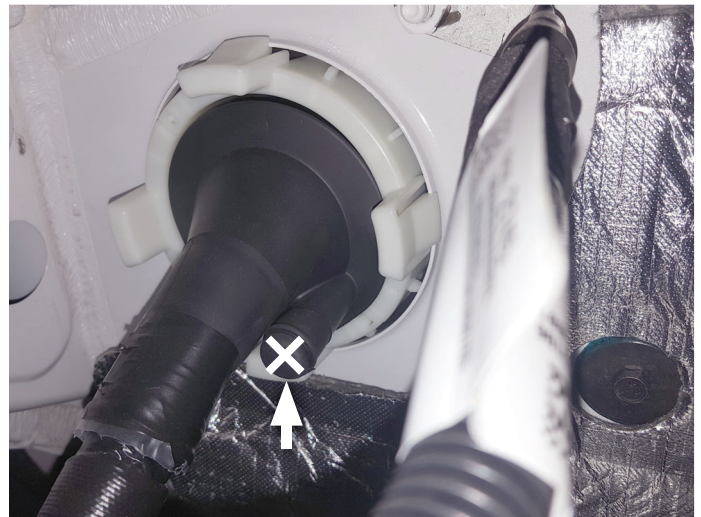


14. Place **female quick disconnect (15)** to remaining end of controller kit. Crimp connector to secure wires together.



15. Find wiring entry point in firewall (behind battery in passenger side). Cut an X in accessory point or cut its end off enough to allow a wire to pass through.

NOTE: You will need to use a stiff wire to complete steps 15-16. We recommend using a coat hanger wire.



16. Thread hanger wire into cab through firewall, then bend its end and connect it to controller kit. Tape over connection to secure it.



17. Cover connection with lubricant then pull hanger wire back through firewall into engine bay.



18. Fasten controller kit to a point up and away from interfering with passengers feet.

NOTE: In this example, we have placed controller behind center console kick panel on passenger side.



19. Remove wire, tape and lubricant from controller kit. Thread wire end down and connect it to wire assembly. Secure any slack away from moving and heated engine components.



20. Open passenger side of console to expose fuse box.

NOTE: We recommend plugging into fuse with key'd power in next step. Between F27 and F26, is a male blade connect.



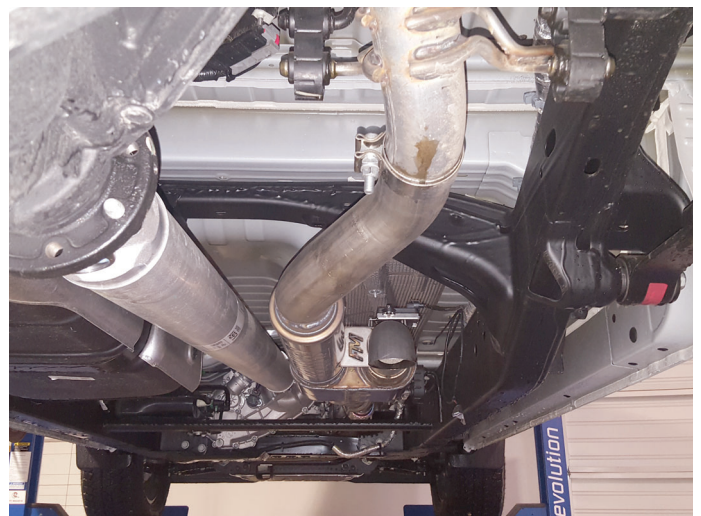
21. Connect female quick disconnect end of controller kit to fuse box.



22. Connect ground wire of controller kit to metal frame under dashboard using **bolt (9)**, (x2) **flat washers (11)** and **nut (10)** as shown. Tuck any slack cord up and out of the way of vehicle operation.



23. Re-install console covers and tuck any loose wire out of the way.



24. Adjust exhaust components for fit; maintaining ½" clearance and compensating for suspension, travel and vibration. Finally, tighten all clamps.
25. 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
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