



Installation Instructions  
**8178129**  
**1967-68 CHEVROLET CAMARO & PONTIAC FIREBIRD WITH V8 ENGINE**  
 Coupe & \*Convertible  
 \*See Page 2

**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.
N/A	PK516	Hardware Pack includes:	1
6	MC250BS	2½" Stainless Band Clamps	6
7	200HA	Left Upper Muffler Bracket	1
8	201HA	Right Upper Muffler Bracket	1
9	202HA	Left Rear Hanger Bracket	1
10	203HA	Right Rear Hanger Bracket	1
11	389HA	Clamp Hanger	2
12	HA168	Rubber Hanger	4
13	HW214	¼" x 1" Self Tapping Screws	6
14	HW204	⅝" x 1" Bolts	4
15	HW308	⅝" Lock Washers	4
16	HW502	⅞" Hanger Keepers	8

ITM #	PART #	DESCRIPTION	QTY.
1	16149S	Connector Pipe	2
2	16143S	H-Pipe Assembly	1
3	842546-Z	Muffler	2
4	16144S	Left Tailpipe	1
5	16145S	Right Tailpipe	1

**REMOVE STOCK EXHAUST SYSTEM:**

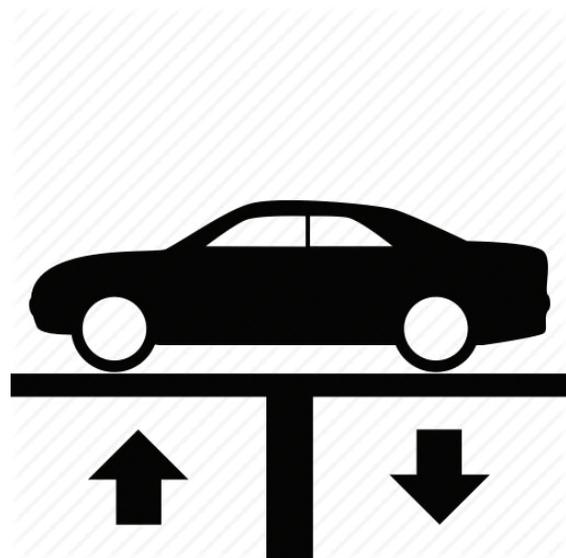
To ease preparation and installation of your new kit:

- 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.

**WARNING:**

Avoid serious burns! Allow your vehicle time to cool completely before touching any factory engine components.

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.
3. Remove existing system from the header collector or manifold down pipes back.



## 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.

### FOR CONVERTIBLE MODELS:

This kit will can fit convertibles by adding spacers to factory convertible body brace and increasing clearance by approximately  $\frac{3}{8}$ " inches. Alternatively, replace factory body brace with a **Hotchkis Performance Body Brace (part #1404)**.



**NOTE:** For single exhaust vehicles, drill  $\frac{1}{8}$ " holes into small dimples on driver side.

5. To support tailpipe, mount **right (10) and left (9) rear hanger brackets** onto each side of vehicle frame near rear end. Secure brackets using **screws (13)** then slide **rubber hangers (x2) (12)** onto them. See Page 3 of these instructions for helpful hints and possible alternatives for securing hangers.

**NOTE:** For single exhaust vehicles, drill  $\frac{1}{8}$ " holes into small dimples on passenger side. Then use **screws (13)** to secure hanger.

6. On underside, slightly forward from rear axle, are a pair of holes on either side of vehicle. Use these to mount **left (7) and right (8) upper muffler brackets**. Once mounted, bracket hangers will point towards center of vehicle. Secure brackets using (x4 ea.) **bolts (14)** and **lock washers (15)** then slide **rubber hangers (x2) (12)** onto them.
7. Insert **clamp hangers (x2) (11)** into rubber hangers on left and right upper muffler brackets. Both hangers should point towards center of vehicle. (see diagram)
8. Route **right tailpipe (5)** over rear axle so its end exits between quarter panel and leaf spring. Repeat this step for **left tailpipe (4)**.
9. Install **left muffler (3)** by placing its outlet into clamp hanger. Rotate muffler until it's level then support it with a stand. Tighten clamp just enough to hold muffler in place but still allow for adjustment. Repeat this step for **right muffler (3)**.
10. Connect **H-pipe assembly (2)** to front of mufflers then center it in drive line cavity. Support front of assembly with a stand. Ensure mufflers and H-pipe assembly are level then check hangers at rear of mufflers to make sure they hang straight down. Adjust system as necessary until it fits correctly.
11. Your **front connector pipes (x2) (1)** are long enough to allow for many different header combinations, therefore, it is necessary to determine their proper length for fitment on your vehicle. You can do this by centering connector pipe between front slip-fit joint of H-pipe assembly and header collectors (or manifold down pipes). Precisely mark pipe where it needs to be cut then transfer marks to remaining connector pipe. Trim front connector pipes at marks.
12. Once connector pipes are cut to proper length, connect them to H-pipe and header collectors or manifold down pipes using a standard Header Flange or FLOWMASTER reducer Cone.
13. Install right tailpipe rear wire hanger into rubber hanger at rear of vehicle. Slide front of tailpipe through clamp hanger and into rear of muffler. Repeat step for left tailpipe.
14. Adjust tailpipes so they are centered between fender and leaf spring.
15. Adjust exhaust components to provide a satisfactory fit. Maintain a minimum of  $\frac{3}{4}$ " clearance around all components of exhaust system, keeping in mind suspension, travel and vibration. After making any required adjustments, securely tighten all clamps.
16. Slide **hanger keepers (x8) (16)** onto the end of each hanger to prevent components from slipping out of their rubber mounts.
17. We recommend applying a one inch tack weld to all slip-fit connections for a more secure installation. You may also apply high temperature paint over welded areas to prevent rust and premature corrosion.

## HELPFUL HINTS FOR CHALLENGES YOU MAY ENCOUNTER DURING INSTALL:

- In Step 5, you have to locate holes (x2) at rear of vehicle on right and left side. If they are in good condition, continue regular installation using self tapping screws to secure hangers in place. If holes are damaged in any way, you may have to drill them out then use 1/4" nut-serts along with 1/4" x 1" bolts to secure hangers in place.
- The nut-sert installation tool, which usually comes with a selection of nut-serts, can be attained from your local rental center or purchase nut-serts individually from most hardware stores. Be sure to drill holes to size recommended per the size nut-sert you plan to install. If you purchase fasteners from a hardware store, try to get them with some kind of coating or finish to prevent them from spinning during install.
- To secure hangers using nut-serts, insert them into pre-drilled hole then place hanger into correct position and tighten using correct sized bolts.
- If the holes (referenced in Step 6) just forward of rear axle were not used to support previous exhaust system and it is difficult to install bolts; they may have become gummed up and can be cleaned out using a 3/16"-18 tap. This will greatly ease installation of bolts.
- To simplify Step 8, jack rear of vehicle to increase clearance between rear axle and underside of car. This will allow tailpipe to slip in easier. We recommend putting tail pipes in first because there is little space once mufflers are in place.

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





Installation Diagram  
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