



Installation Instructions for:
SYSTEM #17149
1970-1974 CHEVROLET CAMARO/PONTIAC FIREBIRD
V8 ENGINE

05/06/11

Installation:

- 1) Before installing anything, prep the clamps supplied in the hardware kit by removing the nuts, and applying a thick lubricant such as white grease or anti-seize to the threads.
- 2) At the rear of the vehicle, there are two holes that are punched into the frame on either side of the vehicle. This is where hanger **#239HA** (for both the left and right side) must be mounted to support the rear of the tailpipe. Use the 1/4"x 1" self tapping screws to secure these two hangers into place. Slide a rubber hanger **#HA168** onto each of the two hangers.
- 3) Place the right tailpipe **#16197** over the rear axle so that the rear of the tailpipe exits between the quarter panel and the leaf spring. Repeat this step for the left tailpipe **#16198**. Connect the hangers on the tailpipes to the rubber mounts installed in the previous step.
- 4) Place the **#932556** mufflers into position under the rear seat pan area. Connect to the tailpipes and support with stands.
- 5) Install the front pipe assembly **#16195** by placing the rear of the front pipe assembly into the inlets of both mufflers and centering it in the drive line cavity. Support the front of the assembly with a stand, and position the mufflers and front pipe assembly so that they are level. Once the mufflers and front pipe assembly are in place, check the tailpipe clearance where they go up in front of the rear axle to be sure there is adequate clearance.
- 6) Place rubber hangers **#HA168** onto the hanger rods at the front end of the tailpipes. Then connect Hanger brackets **#240HA** and **#241HA** to the rubber hangers. See the diagram for proper orientation of brackets. With the mufflers in the proper position, the brackets should fit up against the rear of the seat pan.
- 7) Two pair of 3/8" holes will now need to be drilled in the rear seat pan to mount the muffler hanger brackets. Using the holes in the brackets as a guide, center-punch the locations prior to drilling. (It is a good idea to remove the rear seat before drilling.) After the holes are drilled, the two stud plates **#242HA** and **#243HA** will then be placed through the holes from the inside of the vehicle. The hanger brackets can then be secured with the 5/16" nuts and washers. (The 3/8" holes are oversized and will allow some final height adjustment.)
- 8) The **#16149** front connector pipes are long enough to allow for many different header combinations, therefore, it is necessary to determine the proper length of the inlet connector pipes. Place one of the **#16149** adapter pipes under the front slip fit joint of the front pipe assembly and under the header collectors or manifold down pipes. Accurately mark the pipes where they need to

be cut. Once the proper length is determined, trim the front connector pipes. To accommodate for width, cut the end of #16149 where it enters into the H-pipe.

9) Once the pipes are cut to the proper length, raise them into position and connect them to the H-pipe and header collectors or manifold down pipes using a standard Header Flange or FLOWMASTER Reducer Cone.

10) Adjust and align the position of all the pipes to provide a satisfactory fit. Maintain at least 3/4" clearance around the new FLOWMASTER Exhaust System, the drivetrain and all chassis components. Also keep suspension travel in mind.

11) After the hangers are adjusted to their final position, place the provided hanger keepers onto the end of all hanger rods above the mufflers and hangers that support the tailpipes. This will keep the hangers from slipping out of the rubber mounts.

12) For a cleaner appearance and more secure installation, we highly recommend welding all slip-fit connections. If you live in a geographical area that has harsh winters or sees a great deal of precipitation, the use of high temperature paint over the welded areas can help to prevent surface rust and premature corrosion.

PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part #</u>
2	Muffler	932556
1	H-Pipe Assembly	16195
2	Connector Pipe	16149
1	Tailpipe (Right)	16197
1	Tailpipe (Left)	16198
1	Parts Kit	PK359
1	Muffler Hanger Bracket (L)	240HA
1	Muffler Hanger Bracket (R)	241HA
1	Hanger Bracket Stud Plate (L)	242HA
1	Hanger Bracket Stud Plate (R)	243HA
2	Tailpipe Hanger Bracket (R/L)	239HA
4	Rubber Hanger	HA168
8	2 1/2" Clamp	MC250S
4	5/16" Nuts	
4	5/16" Flat Washers	
4	5/16" Lock Washers	
4	1/4" x 1" Self Tapping Screws	
8	7/16" Hanger Keepers	



Installation diagram for:
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