



## ***409S Stainless Steel*** **SYSTEM #817149**

**1970-1974 CHEVROLET CAMARO/PONTIAC FIREBIRD V8**

05/17/11

### **Installation:**

- 1) 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.
- 2) Place the right tailpipe **#16197S** 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 **#16198S**. Connect the hangers on the tailpipes to the rubber mounts installed in the previous step.
- 3) Place the **#832556-Z** mufflers into position under the rear seat pan area. Place a clamp onto the muffler outlets. Insert the tailpipes into the muffler outlets and support with stands. Tighten the clamps just enough to hold in position.
- 4) Install the front pipe assembly **#16195S** by placing the rear of the front pipe assembly into the inlets of both mufflers and centering it in the drive line cavity. (Be sure to install the clamps first.) 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.
- 5) 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.
- 6) 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.)
- 7) The **#16149S** 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 **#16149S** 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.

8) 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. Pipes may need to be fabricated to accomplish this.

9) 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.

10) 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.

11) For a cleaner appearance and more secure installation, we highly recommend welding all slip-fit connections.

### PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part No</u>
2	Muffler	832556-Z
1	H-Pipe Assembly	16195S
2	Connector Pipe	16149S
1	Tailpipe (Right)	16197S
1	Tailpipe (Left)	16198S
1	Parts Kit	PK547
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	MC250BS
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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**AMERICAN THUNDER**  
**409S Stainless Steel**

