



Installation Instructions for:
SYSTEM #17655
1965-1968 CHEVY CAPRICE / IMPALA
V8 ENGINES

09/02/14

Removal:

- 1) Raise the vehicle up on a hoist or rack to working height. If you do not have access to a hoist or rack, raise the vehicle and support securely with jack stands.
- 2) Remove the existing system from the header collector or manifold down pipes back.

Installation:

1) The first step in the installation of the new Flowmaster system is the installation of the rear tailpipe hangers. At the rear of the vehicle, on the outside of the frame, you will find a vertical oblong hole on either side of the vehicle. Measure back 15.00" from the center of the hole and make a vertical mark on the frame. Then measure down 2.50" from the top of the frame and make a mark on the previous vertical mark. This is where you will drill a 3/8" hole in the frame. Place one of the **HA602** rubber hangers as shown below over the hole and secure using the supplied 3/8" bolt, nut, washer and **HA226** backing plate provided. The backing plate will go on the inside of the frame. Tighten securely.



2) Next you will install the hangers for the rear of the mufflers. On the cross member just behind the rear seat pan you will find a single 3/8" hole on the left side of the vehicle, 1 3/4" away from the suspension link mount. Bolt hanger **#468HA** to the cross member using the bottom hole of the 468HA hanger and a provided 3/8" bolt, nut and washer. Level the hanger and use the top hole in the 468HA hanger as a guide to center punch and drill a second 3/8" hole. Use another 3/8" bolt, nut and washer to secure the top of the hanger to the cross member. Repeat this step on the right side of the vehicle with hanger **#469HA**.





3) Place the left side exit pipe **#86148** up into place and connect the hanger at the rear of the pipe to the rubber mount installed in step 1 above. Slide the hanger into the rubber mount until about $\frac{3}{4}$ " of the wire hanger sticks out from the rear of the rubber mount. Repeat this step on the right side of the vehicle with exit pipe **#86147**.



4) Place a red **HA168** hanger onto the hanger of the left over-axle pipe **#86144**. Also place a provided clamp onto the expanded end of the pipe. Then place the pipe up into position over the rear axle and connect to the exit pipe. Be sure that the two pipes are fully slid together and then slide the rubber hanger onto the cross member mount installed in step 2 above. Tighten the clamp enough to hold but still allow for adjustment. Repeat this step with the right over-axle pipe **#86143**.



5) Place a provided clamp onto the outlet of one of the **#952546** mufflers, then place the muffler onto the back of the left over-axle pipe with the inlet of the muffler toward the center of the vehicle. Rotate the muffler so that it's level and support with a stand. Tighten the clamp on the outlet enough to hold but still allow for adjustment. Repeat this step with the other muffler on the right side of the vehicle.



6) Place a provided clamp onto both muffler inlets. Install H-pipe assembly **#86178** by placing the rear of the assembly into the inlet of both mufflers and then centering in the drive line cavity. Support the front of the assembly with a stand; be sure that the mufflers and pipe assembly are level. Once the mufflers and H-pipe are in place, verify that the hangers at the rear of each muffler are hanging straight down. Adjust forward or back as needed to get the correct fit. Once the desired fit is achieved, tighten the clamps enough to hold in position.

7) It will be necessary to adapt from your existing headers or manifold down pipes to the H-pipe assembly installed in step 6. Due to the many different variables in header/manifold down pipe locations the pieces required to do this will need to be fabricated using the supplied adapter pipes **#86149 and 86155**.

8) Adjust the position of the mufflers and tailpipes to achieve a satisfactory fit. Be sure to provide adequate clearance for suspension travel. Maintain a minimum of $\frac{3}{4}$ " clearance between the Flowmaster system and the drivetrain and chassis components.

9) Place stainless tips **#ST456** onto the ends of the tailpipes and adjust to the desired fit. Tighten firmly.

10) Remove temporary support and allow the system to suspend on the hangers.

11) Tighten down all clamped connections securely. After the system is secure, slide the $\frac{7}{16}$ " hanger keepers onto the hanger rods at the front of the tailpipes to prevent them from sliding out of the rubber mounts. For a more secure installation, we recommend welding all slip-fit connections.

PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>PART #</u>
2	Muffler	952546
2	Adapter Pipe,	86149
2	Adapter Pipe	86155
1	H-pipe Assembly	86178
1	Over-axle Pipe, Right	86143
1	Over-axle Pipe, Left	86144
1	Exit Pipe, Right	86147
1	Exit Pipe, Left	86148
2	Stainless Tip	ST456
1	Parts Kit	PK759
1	Left Muffler Hanger	468HA
1	Right Muffler Hanger	469HA
8	2 1/2" Clamp	MC250S
2	Rubber Hanger	HA168
2	Frame Hanger	HA602
2	Back-up Plate	HA226
6	3/8" x 1" Bolt	HW208
6	3/8" Nut	HW103
6	3/8" Lock Washer	HW309
4	7/16" Hanger Keeper	HW502



Installation diagram for:
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