

FLOWMASTER™

American Thunder™

SYSTEM # 17391 1971-1974 MOPAR "B" BODY (2½" SYSTEM) Installation Instructions

03/02/06

Installation:

1. On the inside of the rear frame rails, roughly 18" forward of the bumper, you will find holes that will be used to mount the tailpipe hanger mounts. You should see a square hole with a round hole just below it. Carefully place the **3/8" bolts** through the square hole and back so that they stick out of the round hole. Then place the hanger mounts **#310HA** (left) and **#311HA** (right) onto the bolts, and secure with nuts and lock washers. Slide a rubber hanger **#HA168** onto each of the hanger mounts.
2. Place both tailpipes **#16429** and **#16430** up over the rear axle. Slip the hanger rods at the rear of the pipes into the rubber hangers that were installed in step 1.
3. Prepare the right side muffler by placing the clamp/hanger **#316HA** onto the outlet of one of the mufflers and tighten just enough to hold in place. (The hanger rod should point opposite to the offset of the inlet neck.) Now connect the hanger mounting bracket **#313HA** using rubber hanger **#HA168**. (Both hanger rods should point the same direction.)
4. Repeat the above procedure to prepare the *left* side muffler, using clamp hanger **#317HA**, mounting bracket **#308HA**, and rubber hanger **#HA168**.
5. Place the mufflers up into position and support with stands, then insert the tailpipes into the muffler outlets.
6. Slide a **2½" clamp #MC250R** over each muffler inlet, then place H-pipe assembly **#16428** in its approximate position underneath the vehicle and connect the back of H-Pipes into the muffler inlets and support with a stand. Tighten clamps just enough to hold but loose enough to allow for adjustment.
7. There are no factory locations for the rear muffler hangers, so you will need to mark the hanger positions and then drill some holes in the rear seat pan area. In order to do this, you will now need to adjust the position of all the pipes and mufflers to achieve a good fit. Once everything is in place, mark the two holes locations for the two hanger mounting brackets, and drill the pan with a **3/8" bit**. Now you must go inside the vehicle and remove the rear seat so that you can see the holes you drilled. Place the mounting plate **#244HA** through the holes, and replace the seat. Now go back and fasten the hanger mounts in place with **3/8" nuts** and **washers**

8. The front connector pipes #16421 and #16422 are long enough to allow for many different header combinations; therefore it is necessary to determine the proper length of the connector pipes. Once the proper length is determined, trim the front connector pipes to fit. Once trimmed to 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, Flowmaster venturi cone, or Flowmaster Ball Flange kit.
9. Make any final adjustment to the position of the mufflers and pipes. Allow a minimum of 3/4" clearance around all parts. Then tighten down all clamps securely and install the 7/16" push-on hanger keepers on the round stock sticking through the rubber muffler hangers. Be sure to allow adequate clearance for full suspension travel and vibration.

NOTE: WE HIGHLY RECOMMEND WELDING ALL SLIP-FIT CONNECTIONS.

Packing List

<u>Qty.</u>	<u>Part # or Size</u>	<u>Part</u>
BOX 1 OF 2 (5039)		
2	952546	Muffler
BOX 2 OF 2 (1043)		
1	16422	Connector Pipe, (L)
1	16421	Connector Pipe, (R)
1	16428	H- Pipe Assembly
1	16430	Left tailpipe
1	16429	Right tailpipe
1	PK425	Hardware kit
1	316HA	Clamp Hanger Muffler (R)
1	317HA	Clamp Hanger Muffler (L)
1	308HA	Muffler Hanger Mount (L)
1	313HA	Muffler Hanger Mount (R)
1	310HA	Tailpipe Hanger Mount (L)
1	311HA	Tailpipe Hanger Mount (R)
2	244HA	Hanger Mounting Plate
4	HA168	Rubber Hanger
4	MC250R	2 1/2" Ring Clamps
2	HW208	3/8" x 1" Bolt
6	HW303	3/8" Flat Washer
6	HW309	3/8" Lock Washer
6	HW103	3/8" Nuts
8	HW502	7/16" Hanger Keepers

FLOWMASTER AMERICAN THUNDER SYSTEM #17391

1971-74 MOPAR B-BODIES

2½" PIPES

