

FLOWMASTER™

AMERICAN THUNDER™

SYSTEM #17413 1959-1964 CHEVROLET IMPALA

Removal:

10/18/05

- 1) Raise vehicle and support with stands. To ease removal of the stock system, spray a penetrating lubricant onto the rubber hangers and also the bolts on the front flanges.
- 2) Support the muffler and tailpipe assembly with a stand, using a flat blade screwdriver; or pry bar remove hangers from rubber hangers. Then Remove old pipes and hangers and set aside.

Installation:

- 1) Install **328HA** hanger assembly which is the right and left front frame hanger to existing holes. **Note: Do to variances in years and OEM system you may need to remove a hanger bracket on driver's side of frame holes are under bracket to bolt up hanger.** Use a **½ inch socket** and ratchet to bolt the frame hanger assembly with **5/16 inch self-tapping screws** to the frame. Place **HA168** rubber hangers on when finished installing.
- 2) Install hanger assembly to right rear frame in the leaf spring bracket using **9/16 inch** socket. Place **7/16 inch** bolt, flat washer, lock washer and nut to secure it in existing hole. When secured place a **HA168** rubber hanger onto it.
- 3) Install **330HA** hanger assembly to the left rear frame in the leaf spring bracket using **9/16 inch** socket. Place **7/16 inch** bolt, flat washer, lock washer and nut to secure it in existing hole. When secured place a **HA168** rubber hanger onto it.
- 4) Install pipe **#16494** left side outlet pipe into position by sliding hangers into the **HA168** rubber hangers attached to the frame hangers.
- 5) Install pipe **#16495** right side outlet pipe into position by sliding hangers into the **HA168** rubber hangers attached to the frame hangers.
- 6) Once the outlet pipes are in place there is a choice of four types of mufflers (**942544, 942554, 12518400, or 12518300**). Take ring clamp **#MC250R** and slide it on the front of the outlet pipe. Then depending on the mufflers you went with slide the outlet of the mufflers onto the front of the outlet pipes (**16494 & 16495**). Slide Ring clamp over mufflers outlets and tighten enough to hold in place but allow for adjustment.

- 7) When the mufflers are in place install front adapter pipes **#16493**. You must trim these pipes depending on the mufflers you selected. Here are the trims for the different mufflers we recommend for the kit.
Hushpower II mufflers (**#12518300, #12518400**) trim off pipe **14.75 inches**.
Delta 40 series mufflers (**#942544**) trim off pipe **10 inches**.
Delta 50 series mufflers (**#942554**) trim off pipe **14 inches**.
- 8) After you have made the proper cut take Ring clamps **#MC250R** and slide them on the inlet of the mufflers. Then slide the adapter pipes into the inlet of the mufflers. Tighten the ring clamp enough to hold but still allow for adjustment.
- 9) Slide ring clamp **#MC250R** onto the rear of the outlet pipe **#16494**. Install Left side exit pipe **#16496** before rear tire. Then tighten ring clamp enough to hold but still allow for adjustment.
- 10) Slide ring clamp **#MC250R** onto the rear of the outlet pipe **#16495**. Install Left side exit pipe **#16497** before rear tire. Then tighten ring clamp enough to hold but still allow for adjustment.
- 11) Adjust the position of all pipes and mufflers to provide a satisfactory fit. **A minimum of 1/2" clearance** around all parts of the system should be maintained, while keeping suspension travel and vibration in mind. After adjustments have been made, you may now securely tighten all clamps. For a "cleaner" fit, we recommend that the slip fit connections be welded. Place the supplied **7/16" hanger keepers** onto the ends of the hanger rods sticking threw rubber hangers and slide them up to the rubber mounts to firmly hold the system in place.

Packing List		
Qty.	Description	Part #.
2	Inlet Adapter Pipe(R/L)	16493
1	Left Outlet Pipe	16494
1	Right Outlet Pipe	16495
1	Left exit pipe before tire	16496
1	Right exit pipe before tire	16497
1	Parts Kit	PK450
8	2½" Ring Clamp	MC250R
2	Front frame hanger R/L	328HA
1	Right rear frame hanger	329HA
1	Left rear frame hanger	330HA
4	Rubber Hanger	HA168
2	3/8" X 1" Bolts	HW208
2	3/8" Nut	HW103
4	5/16" x ¾" Cut thread bolt	HW225
4	3/8" Flat Washer	HW303
2	3/8" Lock Washer	HW309
8	7/16" Hanger Keeper	HW502

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2.50" DUAL SYSTEM PIPES ONLY
EXITS BEFORE REAR TIRES

