

# FLOWMASTER™

## AMERICAN THUNDER™

### SYSTEM #17416

2005-08 CHEVROLET CORVETTE C6

(\*DOES NOT FIT Z06\*)

#### **Removal:**

10/24/07

1. Raise vehicle up and support with jack stands. Support the mufflers with jack stands or muffler stands.
2. If your vehicle has an automatic transmission, you will need to cut the right side over axle pipe about 4" away from the factory band clamp toward the muffler. This is not necessary for the left side or standard transmission vehicles.
3. Remove all four factory hangers out of rubber mounts located at the rear of the vehicle using a screwdriver or a pry bar. A spray type lubricant may be used to ease separation of hangers.
4. Unbolt the four bolts on the two mounting straps that hold the sway bar, using **15mm** and **18mm** sockets or wrenches. Pull sway bar down and allow it to hang freely.
5. Loosen the band clamps using a **15mm** socket or wrench at rear of factory H-pipe and support with a stand.
6. Remove the four nuts at the front cat pipes to factory H-pipe connection using a **15mm** socket or wrench and slide the flanges off the studs.
7. Unbolt the two spring loaded hangers located toward the rear of the H-pipe assembly using a **13mm** socket or wrench.
8. Remove the H-pipe assembly by tilting the front down, then slide the H-pipe forward off the factory muffler connections and set aside.
9. Next, remove both mufflers by pulling the rear of the mufflers down and out of the vehicle. Some twisting may be necessary to get the inlet pipes over the axle.

**Note: retain all nuts, bolts, and hardware. They will be needed for installation.**

**Installation:** ( 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.) **Note: 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.**

1. Install the **#952553-R** muffler on the right side of vehicle first. Slide the hangers in to the factory rubber hanger mounts located at the rear of vehicle. Then using a jack stand or muffler stand, support the front of the muffler until they are approximately level.
2. Repeat **step 1** for the left side using **#952553-L** muffler.
3. Place ring clamps **#MC250R** over the inlets of both mufflers. (**Note: Be sure to position the tension bolt in an accessible location.**)
4. Next, install the right side inlet pipe **#16515** from under the vehicle, over the half shaft, and into the inlet of the muffler. Tighten ring clamps on inlets enough to hold but still allow for adjustment.
5. Repeat **step 4** using the left side inlet pipe **#16516**.
6. Next, install the factory H-pipe by first connecting the slip fit band clamp connections at rear of H-pipe to the inlet pipes **#16515 and #16516**. Then, connect front of H-pipe and secure both flanges to existing studs. Next, reattach the two spring loaded hangers toward the rear of the H-pipe and tighten using a **13mm** socket. Make sure H-Pipe assembly is level side to side before tightening. **Do not over tighten**. Tighten band clamps enough to hold but still allow for adjustment.
7. Now, you can Position mufflers to desired location making sure to keep a **1/2" to 3/4"** clearance around the pipes and mufflers and a minimum **3/4"** clearance at the rear of the mufflers. Now gradually tighten the ring clamps (**MC250R**) using a **9/16" socket** and the factory H-pipe band clamps using a **15mm socket**. (**Note: Adjustment of muffler position may be required during the clamp tightening process.**)
8. Next, re-install the sway bar opposite of **step 4** in the **removal procedure**.

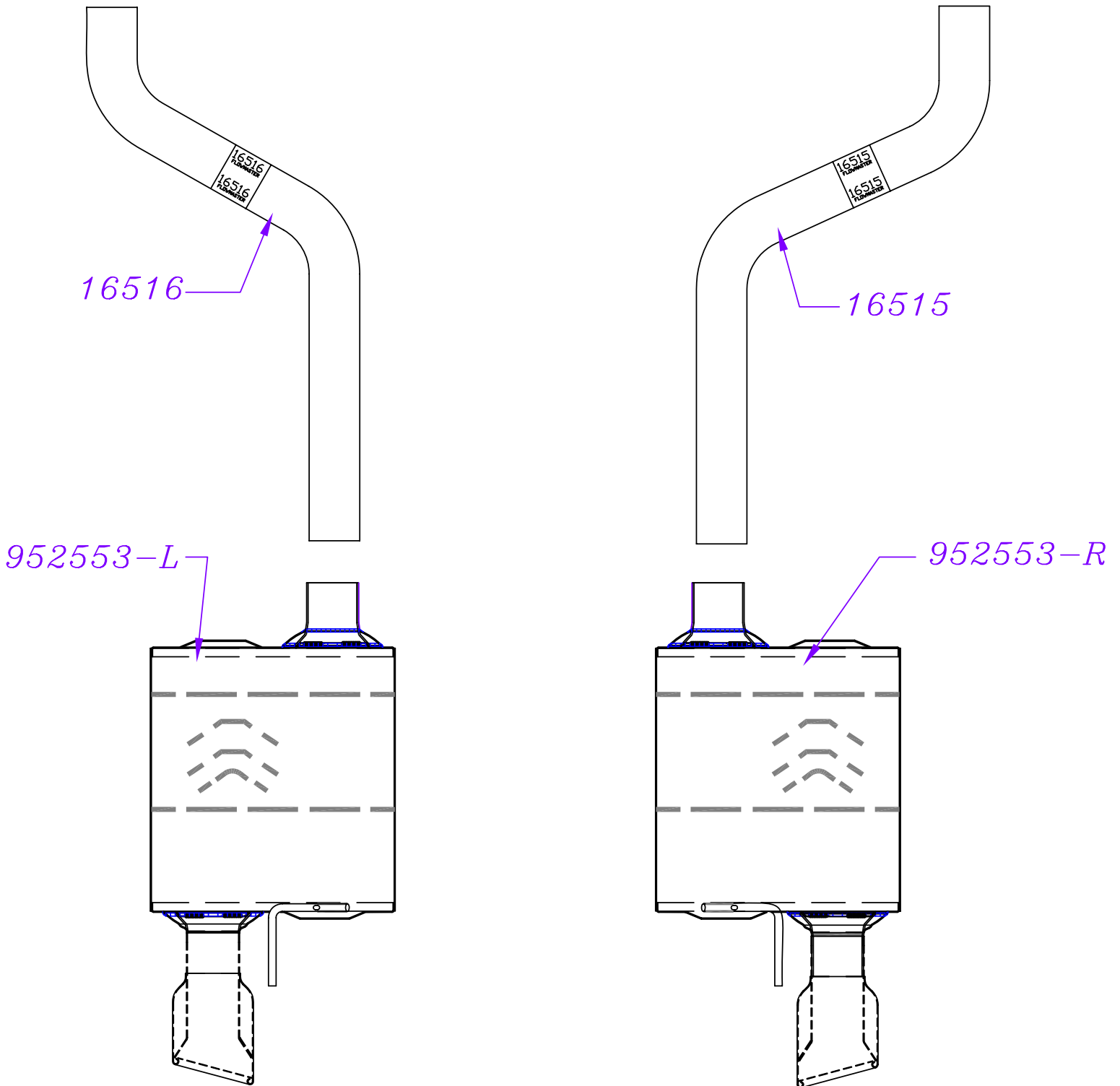
**We strongly recommend welding all slip-fit connections.**

Packing List		
Qty.	Description	Part #.
1	Inlet Pipe Right	16515
1	Inlet Pipe Left	16516
1	Left Muffler Assembly	952553-L
1	Right Muffler Assembly	952553-R
1	Parts Kit	PK446
2	2 1/2" Ring Clamp	MC250R

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QTY.	PART#	DESC.
1	16515	R. INLET PIPE
1	16516	L. INLET PIPE
1	952553-L	L. MUFFLER ASSEM.
1	952553-R	R. MUFFLER ASSEM.
1	PK446	PARTS KIT
2	MC250R	2½" RING CLAMP