

# FLOWMASTER™

## American Thunder™

SYSTEM #17440

2007-08 CHEVROLET/GMC 1500 TRUCKS-(NON HD)  
FITS: 4.8L & 5.3L, 119" & 143.5" W.B. ONLY (D.O.S/R)

**\*\* (WITH ACTIVE FUEL MANAGEMENT ENGINES) \*\***

### Removal:

3/26/08

1. Raise the vehicle up on a hoist or jackstands and support securely.
2. Using a hacksaw or sawsall, cut the stock tailpipe off where it exits the muffler. (**This step is not mandatory, but it makes removal a little easier.**) Separate the two wire hangers on the tailpipe from the rubber mounts on the vehicle. Remove the tailpipe and set aside.
3. Support the muffler with a stand, then measure from the muffler forward and make a mark, cut according to list below. Then cut using a hacksaw or sawsall on your mark, **Please double check measurement twice before cutting.**

Note: (See picture).

Regular Cab / Standard Box-119.0" W.B. = Trim 11.50" from Muffler forward

Extended Cab / Standard Box-143.5" W.B. = Trim 15.50" from Muffler forward

Crew Cab / Short Box-143.5" W.B. = Trim 15.50" from Muffler forward

Then separate the wire hanger in front of the muffler from the rubber mount on the vehicle. Remove the muffler and set aside.

**Installation: ( If you live in a geographical area that has harsh winters or sees a great deal of precipitation, the use of high tempature 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. Place inlet pipe #TB477 into position onto the factory inlet pipe you just trimmed and place supplied 3" ring clamp #MC300R at this connection tighten firmly. Next place the supplied inlet pipe clamp hanger #350HA onto the pipe and into the factory rubber mount on the frame, re-install the two nuts back onto the flanged connection. **Note: Below are trims for this inlet pipe #TB477**

**Based on production variations this is a list of cab designs, bed lengths, and wheelbases to cut your new inlet pipe TB477 to fit your application. Double-check all measurements before cutting your inlet pipe:**

Regular Cab / Standard Box-119.0" W.B. = Trim 4.50" off inlet pipe TB477

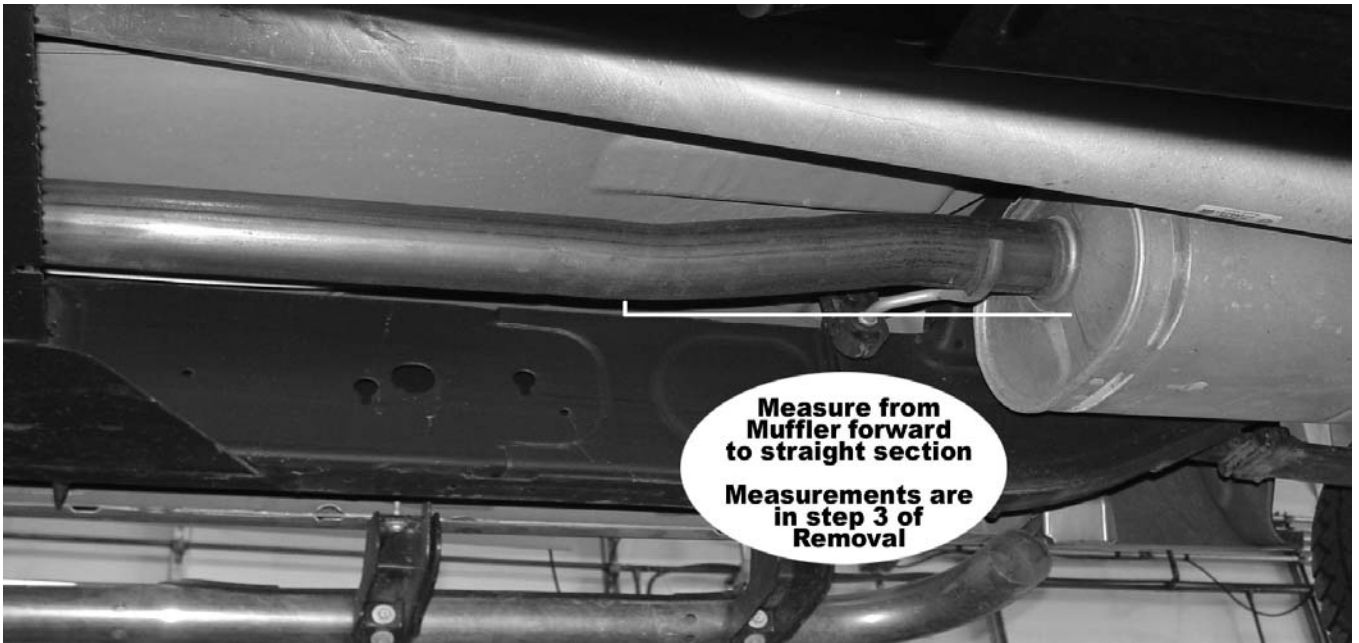
Extended Cab / Standard Box-143.5" W.B. = NO Trim required

Crew Cab / Short Box-143.5" W.B. = NO Trim required

- 1a. If you have the **4.8L engine** then you must use the adapter pipe #TB452, slide it into the slip-fit of the inlet pipe #TB477. Then slide the inlet pipe #TB477 with adapter #TB452 over the stock 2-3/4" inlet pipe you trimmed in **step 3** of removal instructions. Then place supplied MC234S clamp onto adapter pipe #TB452 and clamp it to the stock inlet, tighten enough to hold but allow for adjustment.

2. Place a supplied 3" ring clamp #MC300R over the inlet of the muffler, then slide the inlet of muffler #530562 onto the back of the inlet pipe #TB477. Use a stand to support the muffler. Tighten ring clamp enough to hold in place but still allow for adjustment.
3. Using the bolts, washers, nuts and backing plates #HA566 supplied, (*Note: the backing plates #HA566 go on both sides of the frame between the hanger, washers & bolts to cover the oblong holes so that the frame hangers won't bend into the oblong holes.*). Mount tailpipe hanger #226HA to the frame on the left side of the vehicle using the angled oblong hole on the frame rail. Repeat this step on the right side of the vehicle using hanger #227HA; they both bolt in approximately the same position on either side of the vehicle. Slide rubber hangers #HA168 onto the ends of both 226HA and 227HA. Remove the factory rubber hanger from the stock mount on the vehicle and set aside, on some models it may be reused on the right side factory hanger stud behind the muffler if there is no factory rubber hanger at that location.
4. Place two of the supplied 2½" ring clamps #MC250R over the right and left outlets of the muffler; then place right tailpipe #16539 into position over the rear axle, and slide into the right muffler outlet. Connect the hanger that is welded to the rear of the pipe into the rubber hanger #HA168 installed in step (3). Pipe should be **approx. 3/4"** away from the shock when adjusted.
5. Place left front sec. tailpipe #16522 into position over the rear axle, and slide into the left muffler outlet. Then place supplied ring clamp #MC250R over hydrosizer onto the back of the pipe, then place Left rear sec tailpipe #16538 into the front sec. tailpipe, and then connect the hanger welded to the rear of the pipe into the rubber hanger #HA168, installed in **step (3)**. Pipe should be centered between the shock and the spare tire when adjusted. Tighten the ring clamps on both pipes enough to hold but still allow for adjustment.
6. Connect hanger #228HA to the rubber mount behind the muffler, and clamp to the left side front tailpipe #16522 tighten firmly but still allow for adjustment.
7. Then slide either the side exit pipes #16317 or the rear exit pipes #16397 onto the ends of both over axle pipes and place a supplied 2½" ring clamp #MC250R onto these slip-fit connections, tighten enough to hold but still allow for adjustment. Place the two stainless tips #ST396 onto the exit pipes and tighten them enough to hold but still allow for adjustment. Rotate the exit pipes and tips to the desired distance from the body or bumper, so that the angle cut on the tips are in the desired location. We highly recommend welding the tip to the exit pipe to prevent possible slippage and loss of the tip.
8. Adjust the position of all pipes and muffler to provide a satisfactory fit. **A minimum 3/4" of clearance** around all parts of the system must be maintained; while also keeping suspension travel and vibration in mind.
9. Tighten all clamped connections down securely. For a "cleaner" appearance, connections may be welded and the clamps removed. Place the supplied 1/2" hanger keepers onto the end of the inlet pipe and left rear muffler hangers, also slide the 7/16" hanger keepers onto the rear tailpipe and frame hangers, slide them up to the rubber mounts to firmly hold the system in place.
10. To prevent the rear axle breather tube from contacting the left side tailpipe, and possibly being damaged, use the enclosed ZIP TIE to fasten the rear axle breather tube to the brake line bracket located on the frame. Be sure to allow enough slack in the hose for the suspension to fully compress and extend.

Note: We recommend welding all slip fit connections.



**PACKING LIST KIT #17440**

<u>Qty.</u>	<u>Description</u>	<u>Part #</u>
1	Adapter pipe	TB452
1	Inlet Pipe	TB477
1	Muffler	530562
1	Tailpipe, Right	16539
1	Tailpipe, Left Front	16522
1	Tailpipe, Left Rear	16538
2	Rear Exit pipes R/L	16397
2	Side Exit Pipes R/L	16317
2	Stainless Tips	ST396
1	Parts Kit	PK466
1	2-3/4" Saddle clamp	MC234S
5	2 1/2" Clamps	MC250R
2	3" Clamp	MC300R
1	Frame Hanger, Left	226HA
1	Frame Hanger, Right	227HA
1	Rear Muffler Hanger	228HA
1	Inlet Pipe Hanger	350HA
4	Backing Plate	HA566
2	Rubber Hanger	HA168
2	3/8" Nuts	HW103
2	3/8" X 1/4" Bolts	HW209
2	3/8" Flat Washers	HW303
2	3/8" Lock Washers	HW309
4	7/16" Hanger Keepers	HW502
3	1/2" Hanger Keepers	HW503
1	8" Plastic Zip Tie	HW504

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