

# FLOWMASTER

## American Thunder™

SYSTEM #17428

1999-2006 CHEVROLET/GMC, C/K 1500 TRUCKS

143.5" W.B. EXTENDED CAB, SHORT BED, 4.8L & 5.3L ENGINES (D.O.S./ R)

### Removal:

4/18/06

1. Raise the vehicle and support with stands.
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.)**
3. Separate the two wire hangers on the tailpipe from the rubber mounts on the vehicle. Remove the tailpipe and set aside.
4. Support the muffler with a stand, then separate the wire hanger from the rubber mount in front of the muffler.
5. Remove the two nuts at the muffler to cat flange connection. Remove the muffler and set aside.

### Installation:

1. Place inlet pipe #26247 into position behind the catalytic converter. Connect the wire hanger to its factory rubber mount, and re-install the factory nuts on the flange connection.
2. Slide a supplied #MC300R clamp over the inlet of the muffler #9530462 and connect it to the back of the inlet pipe. Use a stand to support the muffler, next tighten the clamp enough to hold in place but still allow for adjustment.
3. Using the bolts, washers, nuts and backing plates #HA566 provided, 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 hanger #HA168 onto the ends of both 226HA and 227HA. Remove the factory rubber hanger from the stock mount.
4. Slide a supplied #MC250R clamp over the right side muffler outlet and slip the right side tailpipe #16521 into the same muffler outlet. Next tighten the clamp enough to hold in place but still allow for adjustment, Connect the hanger that is welded to the rear of the pipe to the rubber hanger #HA168 Installed in step (3). Pipe should be approx. 3/4" away from the shock when adjusted.
5. Slide a supplied #MC250R clamp over the left side muffler outlet and slip the left front tailpipe #16522 into position over the rear axle, and into the same muffler outlet. Next tighten the clamp enough to hold in place but still allow for adjustment.
6. Connect clamp hanger assy. #228HA to the factory rubber mount behind the muffler, and clamp to the left front side of the tailpipe you just installed in step (5).

7. Slide a supplied #MC250R clamp over the back of the left front tailpipe, next place the left rear tailpipe #16524 into the outlet of the same left front tailpipe installed in step (5). Tighten the clamp enough to hold in place but still allow for adjustment, connect the hanger that is welded to the rear of the pipe into the rubber hanger #HA168 installed in step (3). The pipe should be centered between the shock and the spare tire when adjusted.
8. Connect either #16317 for side exit or #16397 for rear exit onto the ends of the tailpipes and install a supplied #MC250R clamp on each side. Tighten the clamps enough to hold in place but still allow for adjustment. Next place stainless tips #ST396 onto the ends of the chosen exit pipes and adjust to desired fit and tighten firmly.
9. Adjust the position of all muffler, pipes and tips 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.
10. 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 hanger, also slide the 7/16" hanger keepers on to the rear tailpipe and frame hangers, slide them up to the rubber mounts to firmly hold the system in place.
11. To prevent the rear axle breather tube from contacting the left side tailpipe, and possibly being damaged, use enclosed ZIP TIE to fasten rear axle breather tube to the brake line **bracket** located on the frame. Be sure to allow hose enough slack for the suspension to fully compress and extend.

#### PACKING LIST

Qty.	Description	Part #
1	Inlet Pipe	26247
1	Muffler	9530462
1	Tailpipe, Right	16521
1	Tailpipe, Left Front	16522
1	Tailpipe, Left Rear	16524
2	Side Exit Pipes (L / R)	16317
2	Rear Exit Pipes (L / R)	16397
2	Stainless Tips	ST396
1	Parts Kit	PK457
1	Frame Hanger, Left	226HA
1	Frame Hanger, Right	227HA
1	Rear Muffler Hanger	228HA
2	Rubber Hanger	HA168
4	Backing Plate	HA566
5	2 1/2" Ring Clamps	MC250R
1	3" Ring Clamp	MC300R
2	3/8" X 1-1/4" Bolts	HW209
2	3/8" Nuts	HW103
2	3/8" Lock Washers	HW309
2	3/8" Flat Washers	HW303
1	Plastic Ziptie	HW504
4	7/16" Hanger Keepers	HW502
2	1/2" Hanger Keepers	HW503

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