

FLOWMASTER™

American Thunder™

SYSTEM #17397

**2004-05 DODGE RAM 1500 SERIES TRUCKS
5.7L HEMI V8 ENGINE ONLY - ALL WHEELBASES
REAR EXIT AND SIDE EXIT PIPES INCLUDED**

12/15/04

Removal:

- 1) Raise the vehicle and support securely with jack stands.
- 2) To make the removal of the stock system easier, you may choose to cut the stock tailpipe off where it exits the muffler, this can be done using a hacksaw or sawsall. After cutting, remove the hanger at the rear of the tailpipe from the rubber mount on the vehicle and set the tailpipe aside. This step is not mandatory, but makes removal easier.
- 3) Support the muffler with a stand and remove the two hangers at the rear of the muffler along with the hangers in front of the muffler from the rubber mounts on the vehicle. Then loosen the ring clamp at the muffler inlet connection. Once loose, slide the muffler off of the front pipe and set aside.

Installation:

- 1) Connect adapter pipe #TB452 to the factory inlet pipe; line up the notch in the adapter with the tab on factory pipe. Slide muffler #9530572 onto adapter pipe TB452. Use a stand to support the muffler, and install clamp hanger #294HA provided in the parts kit onto the inlet of the muffler and the rubber mount on the vehicle.
- 2) At the rear of the frame on the drivers side of the vehicle (next to the spare tire) there is an over sized slotted hole that goes through both sides of the frame, using this hole, connect frame hanger #226HA to the outside of the frame using the 3/8"x 4" bolt, nut, washer and the HA226 as a backing plate on the inside of the frame. Make sure the hanger is straight up and down then tighten securely.
- 3) Place rubber hanger #HA168 onto the bottom of frame hanger #226HA.
- 4) Place right side tailpipe #16443 into position over the axle and slip into the right side muffler outlet. Connect the hangers at the front and rear of the pipe to the rubber mounts on the vehicle. Install a provided 2½" clamp onto the muffler outlet, tighten enough to hold but still allow for adjustment.
- 5) Place the front section of the left side tailpipe #16322 into the left side muffler outlet and connect the hanger on the pipe to the rubber mount on the vehicle. Place a provided 2½" clamp onto the muffler outlet, tighten enough to hold but still allow adjustment.

- 6) Connect the rear section of the left side tailpipe #16324 onto the back of the front section by sliding the two sections together at the slip-fit connection over the rear axle. Then place the hanger at the rear of the tailpipe into the rubber mount installed in step 3 above. Install a provided 2 1/2" clamp onto the over-axle slip-fit connection. Tighten enough to hold but still allow adjustment.
- 7) Then slide either the side exit pipe #16317 or rear exit pipe #16397 onto the ends of both over axle pipes. Place a 2 1/2" clamp onto these slip-fit connections, tighten enough to hold but still allow for adjustment. Place the two stainless tips onto the exit pipes and tighten the hose clamps enough to hold but still allow for adjustment. Rotate the exit pipe and tip to the desired distance from the fender or bumper, so that the angle cut on the tips are in the desired location. We highly recommend tack welding the tip to the exit pipe to prevent possible slippage and loss of the tip.
- 8) Adjust the position of all the pipes and muffler to provide a satisfactory fit. **A minimum of 3/4" clearance** around all parts of the system must 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 appearance, connections can be welded and the clamps removed.
- 9) After the system is secure, slide the 7/16" hanger keepers onto the end of the hangers at the rear of the vehicle on the drivers' side. These will prevent the hangers from slipping out of the rubber mounts.

We strongly recommend welding all slip-fit connections.

PACKING LIST

| <u>Qty..</u> | <u>Description</u> | <u>Part#</u> |
|--------------|------------------------------|--------------|
| 1 | Adapter Pipe | TB452 |
| 1 | Muffler | 9530572 |
| 1 | Right Tailpipe | 16443 |
| 1 | Left Tailpipe, Front Section | 16322 |
| 1 | Left Tailpipe, Rear Section | 16324 |
| 2 | Side Exit Pipe (R/L) | 16317 |
| 2 | Rear Exit Pipe (R/L) | 16397 |
| 2 | Stainless Tip | ST396 |
| 1 | Parts kit | PK430 |
| 1 | Rear Frame Hanger | 226HA |
| 1 | Front Clamp Hanger | 294HA |
| 5 | 2 1/2" Camp | MC250S |
| 1 | 2 3/4" Clamp | MC234S |
| 1 | Square Backing Plate | HA226 |
| 1 | Rubber Hanger | HA168 |
| 1 | 3/8"x 4" Bolt | HW220 |
| 1 | 3/8" Nut | HW103 |
| 1 | 3/8" Lock Washer | HW309 |
| 2 | 7/16" Hanger Keepers | HW502 |
| 2 | 3/8" Flat Washer | HW303 |

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