



SYSTEM #17375

2003 DODGE RAM 1500 SERIES TRUCK
5.7L HEMI V8 ENGINE · ALL WHEELBASES

11/23/09

Removal:

- 1) Raise the vehicle up on a hoist or rack to working height. If you do not have access to a hoist or rack raise the vehicle and support securely with jack stands.
- 2) To ease removal of the stock system, 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.
- 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. Loosen the ring clamp at the muffler inlet connection and slide the muffler off of the front pipe and set aside. *Note: The adapter pipe from the converter outlet to the muffler will remain on the vehicle.*

Installation:

- 1) 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.
- 2) Connect the inlet of muffler **#9530582** to the factory inlet pipe. Use a stand to support the muffler and install clamp hanger **#295HA** onto the inlet of the muffler and the rubber mount on the vehicle.
- 3) At the rear of the frame on the drivers side of the vehicle (next to the spare tire) there is an oversized 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 and washer. Place backing plate **#HA226** on the inside of the frame. Make sure the hanger is straight up and down, then tighten securely.
- 4) Place rubber hanger **#HA168** onto the bottom of frame hanger **#226HA**.
- 5) Place right side tailpipe **#16323** 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 2 1/2" clamp onto the muffler outlet and tighten just enough to hold in position.
- 6) 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 2 1/2" clamp onto the muffler outlet and tighten just enough to hold in position.

- 7) 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. 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 and tighten just enough to hold in position.
- 8) 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 and tighten enough to hold in position. Place the two stainless tips onto the exit pipes and tighten the clamps just enough to hold in position. 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.
- 9) Adjust the position of all muffler, pipes and tips to provide a satisfactory fit. Maintain a minimum of 3/4" clearance between the Flowmaster system, the drivetrain and chassis components, while also keeping suspension travel and vibration in mind.
- 10) Tighten down all clamped connections securely. 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. This will prevent the hangers from slipping out of the rubber mounts.
- 11) For a cleaner appearance and more secure installation, we highly recommend welding all slip-fit connections. 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.

PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part#</u>
1	Muffler	9530582
1	Right Tailpipe	16323
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	PK411
1	Rear Frame Hanger	226HA
1	Front Clamp Hanger	295HA
5	2 1/2" clamp	MC250S
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



Installation diagram for:
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