



Installation Instructions for:
SYSTEM #817397
2004-2005 DODGE RAM 1500 SERIES TRUCKS
5.7L HEMI • V8 ENGINES • ALL WHEELBASES

**AMERICAN
THUNDER**

409S Stainless Steel

Removal:

- 1) Disconnect the negative side of the battery cable. 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) Generously apply a penetrating lubricant to all of the hanger mounts, clamps and slip fit connections.
- 3) 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.
- 4) 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 clamp at the muffler inlet connection. Once loose, slide the muffler off of the front pipe and set aside.

Installation:

- 1) Connect adapter **#TB452S** to the factory inlet pipe; line up the notch in the adapter with the tab on factory pipe. Install a clamp and tighten lightly.
- 2) Slide muffler **#8530572-Z** onto adapter pipe. Use a stand to support the muffler and install clamp hanger **#390HA** provided in the parts kit 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 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, washer and **#HA226** as a backing plate 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 **#16443S** 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 enough to hold, but still allow for adjustment.

- 6) Place the front section of the left side tailpipe **#16322S** 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 enough to hold, but still allow for adjustment.
- 7) Connect the rear section of the left side tailpipe **#16324S** 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. Install a provided a 2 1/2" clamp onto the over-axle slip-fit connection. Tighten enough to hold, but still allow for adjustment.
- 8) Slide either the side exit pipe **#16317S** or rear exit pipe **#16397S** onto the ends of both over-axle tailpipes. Place a 2 1/2" clamp onto these slip-fit connections and tighten enough to hold, but still allow for adjustment. Place the two stainless tips onto the exit pipes and tighten the 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.
- 9) Adjust the position of all pipes and muffler to provide a satisfactory fit. A minimum of 3/4" clearance around all parts of the system must be maintained; while also keeping suspension travel and vibration in mind. After adjustments have been made, tighten all clamped connections down securely. 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.
- 10) For a cleaner appearance and more secure installation, we highly recommend welding all slip-fit connections.

PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part #</u>
1	Adapter Pipe	TB452S
1	Muffler	8530572-Z
1	Right Tailpipe	16443S
1	Left Tailpipe, Front Section	16322S
1	Left Tailpipe, Rear Section	16324S
2	Side Exit Pipe (R/L)	16317S
2	Rear Exit Pipe (R/L)	16397S
2	Stainless Tip	ST396
1	Parts kit	PK525
1	Rear Frame Hanger	226HA
1	Front Clamp Hanger	390HA
5	2 1/2" Camp	MC250BS
1	2 3/4" Clamp	MC234BS
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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