



## Installation Instructions for:

### SYSTEM #817507

2003-2012 DODGE RAM 2500/3500 SERIES TRUCKS

ALSO FITS 2005-2008 1500 SERIES MEGA CAB TRUCKS

5.7L HEMI • ALL W.B.

**AMERICAN  
THUNDER**

## 4099<sub>s</sub> Stainless Steel

03/28/13



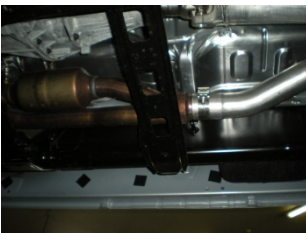
- 1) Raise the vehicle up on a hoist or rack to working height. If you do not have access to a hoist or rack, raise the vehicle and support securely with jack stands.



- 2) To make the removal of the stock system easier, using a hacksaw or sawsall cut the stock tailpipe off where it exits the muffler. 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. There are retainer clips on the ends of each of the hangers that will need to be removed with pliers to allow disassembly.



- 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 remove the clamp on the slip connection just behind the catalytic converter. **After removing the clamp, this connection will need to be either sliced or heated in order to separate the connection.** Remove the muffler and set aside.



- 4) Trim inlet pipe #26332S according to the following measurements before placing onto the stock front pipe just behind the catalytic converter. Be sure to line up the notch in the pipe with the tab on the front pipe. Place the provided 3" clamp onto this connection and tighten enough to hold.

**2003-12 Regular Cab, 8' Bed Models: Trim 29.00"**

**2003-09 Quad Cab, 6'-4" Bed Models: Trim 29.00"**

**2003-09 Quad Cab, 8" Bed Models: Trim 9.00"**

**2006-12 Mega Cab, 6'-4" Bed Models: Trim 9.00"**

**2010-12 Crew Cab, 6'-4" bed models: Trim 20.00"**

**2010-12 Crew Cab, 8' bed models: No Trim**



5) On Crew-cab long bed models, there are three hangers between the muffler and the catalytic converter, two with a rubber isolator and one without. Take the rubber isolator from the second hanger from the muffler and place it onto the hanger welded to the frame midway between the converter and the muffler. Slide clamp hanger **#416HA** over the back of inlet pipe **#26332S** and connect to this rubber mount.



6) Connect the inlet of the muffler **#8530572-Z** to the inlet pipe. Use a stand to support the muffler and install clamp hanger **#392HA** provided in the parts kit onto the inlet of the muffler. Tighten the clamp enough to hold but still allow for adjustment.



7) At the rear of the frame on the drivers side of the vehicle (next to spare tire) there is an over sized slotted hole that goes through both sides of the frame. Using this hole, connect frame hanger **#280HA** 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, and then tighten securely. Place rubber hanger **#HA168** onto the bottom of frame hanger **#280HA**.



8) Install a provided 2½" clamp onto the right muffler outlet. Place the right side tailpipe **#16415S** into position over the axle and slip into the right side muffler outlet, while at the same time, connecting the hangers at the front and rear of the pipe to the rubber mounts on the vehicle. Tighten the clamp enough to hold, but still allow for adjustment.



9) Install a provided 2½" clamp onto the left muffler outlet. Place the front section of the left side tailpipe **#16413S** into the left side muffler outlet and connect the hanger on the pipe to the rubber mount on the vehicle. Tighten the clamp enough to hold, but still allow for adjustment. Place a second 2½" onto the back of this pipe in preparation for the next step.



10) Connect the rear section of the left side tailpipe **#16414S** 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 6 above. Tighten the clamp enough to hold, but still allow for adjustment.



11) Slide either the side exit pipe **#16317S** or the rear exit pipe **#16397S** on 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 **#ST396** 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 and so angle cut on tips are in the desired location.

Adjust the position of all pipes and muffler to provide a satisfactory fit. A minimum 3/4" clearance around all parts of the system must be maintained; while also keeping suspension travel and vibration in mind.

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 driver's side to prevent the hangers from slipping out of the rubber mounts.

For a more secure installation, we recommend welding all slip-fit connections

### PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part#</u>
1	Inlet Pipe	26332S
1	Muffler	8530572-Z
1	Right Tailpipe	16415S
1	Left Tailpipe, Front Section	16413S
1	Left Tailpipe, Rear Section	16414S
2	Side Exit Pipe (R/L)	16317S
2	Rear Exit Pipes (R/L)	16397S
2	Stainless Tip	ST396
1	Parts kit	PK565
5	2 1/2" clamp	MC250BS
1	3" clamp	MC300BS
1	Frame Hanger	280HA
1	Front Clamp Hanger	392HA
1	Inlet Pipe Hanger	416HA
1	Square spacer	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
1	3/8" Flat Washer	HW303



Installation diagram for:  
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