



**AMERICAN  
THUNDER**

**409S® Stainless Steel**

Installation Instructions for:  
**SYSTEM #817424**  
**2006-2008 DODGE RAM 1500 SERIES TRUCK**  
4.7L ENGINE (NON HEMI) - ALL WHEELBASES

### 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 make removal of the stock system easier, you may choose to cut the stock tailpipe off where it exits the muffler. 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. Loosen the clamp at the muffler inlet connection. It may be necessary to slice open or heat this connection with a torch to facilitate removal. Use caution when using a torch. Remove the muffler and set aside.

### Installation:

- 1) Place the inlet pipe **#TB468S** in position on the front pipe from the catalytic converter and install the 3" clamp **#MC300BS** provided in the parts kit. Tighten just enough to hold in position.
- 2) Connect the inlet of the muffler **#8530552-Z** to the inlet pipe. Use a stand to support the muffler and install clamps on inlet and outlet necks and tighten just enough to hold in position.
- 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 frame using the 3/8" x 4" bolt, nut, washer and the **#HA566** as a backing plate on both sides of the frame. Make sure the hanger is straight up and down, tighten securely.
- 4) Place rubber hanger **#HA168** onto the bottom of frame hanger **#226HA**.
- 5) Place right side tailpipe **#16517S** 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. Tighten clamp enough to hold, but still allow for adjustment.
- 6) Place the front section of the left side tailpipe **#16518S** into the left side muffler outlet and connect the hanger on the pipe to the rubber mount on the frame. Tighten clamp enough to hold, but still allow for adjustment.
- 7) Connect the rear section of the left side tailpipe **#16520S** 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 pipe into the rubber mount installed in Step 5 above. Install a provided 2 1/2" clamp onto the over-axle slip-fit connection and tighten enough to hold, but still allow for adjustment.

8) Slide rear exit pipes **#16397S** or side exit pipes **#16317S** onto the ends of both over-axle pipes. Place a provided 2 1/2" clamp onto these slip-fit connections. 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 position.

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 driver 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.

#### PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part#</u>
1	Adapter pipe	TB468S
1	Muffler	8530552-Z
1	Right Tailpipe	16517S
1	Left Front Tailpipe	16518S
1	Left Rear Tailpipe	16520S
2	Side Exit Pipe (R/L)	16317S
2	Rear Exit Pipe (R/L)	16397S
2	Stainless Tip	ST396
1	Parts kit	PK535
5	2 1/2" clamp	MC250BS
2	3" clamp	MC300BS
1	Frame Hanger	226HA
2	Square spacer	HA566
1	Rubber hanger	HA168
1	3/8"x 4" bolt	HW220
1	3/8" Nut	HW103
1	3/8" lock washer	HW309
2	3/8" flat washers	HW303
2	7/16" Hanger Keepers	HW502



Installation diagram for:  
**SYSTEM #817424**  
2006-2008 DODGE RAM 1500 SERIES TRUCK  
4.7L ENGINE (NON HEMI) • ALL WHEELBASES

**AMERICAN THUNDER**

**409S® Stainless Steel**

