



# FORCE II™

**409S® Stainless Steel**

## Installation Instructions for:

### **SYSTEM #817652**

**2007-2012 DODGE RAM 2500/3500 SERIES TRUCKS**

6.7L CUMMINS DIESEL ENGINE · ALL WHEELBASES

DUAL 4" DPF BACK SYSTEM

05/01/13

### Removal:

- 1) To make the removal of the stock system easier, you may choose to cut off the stock tailpipe 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.
- 2) Remove the clamp on the muffler inlet. Use a pry bar to separate the two hangers at the front of the muffler from the rubber mounts on the vehicle. (A lubricant of some type on the hangers will make removal easier.) Remove the muffler assembly from the vehicle.

### Installation:

- 1) Place a supplied 4" clamp onto the inlet of muffler **#8540152-Z** then place the muffler onto the back of the diesel particulate filter. Level the muffler and support with a stand.
- 2) Place a 4" clamp onto the right muffler outlet, then place the front section of the right tailpipe **#46185S** into the muffler outlet while also connecting the hanger on the pipe to the rubber mount on the vehicle. Tighten the clamp on the muffler outlet enough to hold, but still allow for adjustment.
- 3) Place a 4" clamp onto the expanded end of exit pipe **#46187S**, then place onto the back of the front section **#46185S**. Slide the two pipes fully together while also connecting the hanger on the pipe to the rubber mount on the vehicle. Tighten the clamp at the slip-fit connection over the axle enough to hold, but still allow for adjustment. Place a supplied clamp onto stainless tip **#ST475**, then place onto the back of the exit pipe and adjust to the desired rotation. Tighten the tip clamp using a 7/16" wrench, socket and ratchet. Tighten enough to hold in place.
- 4) Place a 4" clamp onto the left muffler outlet, then place the front section of the left tailpipe **#46186S** into the muffler outlet while also connecting the hanger on the pipe to the rubber mount on the vehicle. Tighten the clamp on the muffler outlet enough to hold, but still allow for adjustment.
- 5) At the rear of the truck on the left side, there is an oblong hole in the frame beside the spare tire, see photos below. Using frame hanger **463HA**, backing plate **HA566** and provided 7/16" x 3.50" bolts, nut and lock washer, bolt 460HA to the outside of the frame using HA566 on the inside of the frame as a backing plate. Fasten securely. Then place the provided **HA168** rubber hanger onto the bottom of the hanger mount. Hanger will hang straight up and down.



6) Place a 4" clamp onto the expanded end of exit pipe **#46188S**, then place onto the back of the front section **#46186S**, slide the two pipes fully together while also connecting the hanger on the pipe to the rubber mount installed in the step above. Tighten the clamp at the slip-fit connection over the axle enough to hold but still allow for adjustment. Place a supplied clamp onto stainless tip **#ST475**, then place onto the back of the exit pipe and adjust to the desired rotation. Firmly tighten the tip clamp using a 7/16" wrench, socket and ratchet.

7) Adjust the position of all pipes and muffler to provide a satisfactory fit. Be sure to maintain an adequate clearance around all parts of the system to avoid rattles or damage to heat sensitive components. Once you're happy with the fit, tighten all connections down securely. For a cleaner appearance and more secure installation, we highly recommend welding all slip-fit connections. Place the included 1/2" hanger keepers onto the ends of the left rear pipe and frame hangers; these will prevent the hangers from slipping out of the rubber mounts.

### PACKING LIST

<u>QTY</u>	<u>DESCRIPTION</u>	<u>PART#</u>
1	Muffler	8540152-Z
1	Right Tailpipe, Front	46185S
1	Left Tailpipe, Front	46186S
1	Right Tailpipe, Rear	46187S
1	Left Tailpipe, Rear	46188S
2	Stainless Tip	ST475
1	Parts Kit	PK729
1	Left Frame Hanger	463HA
7	4" Ring Clamps	MC400BS
1	Back-up Plate	HA566
1	Rubber Hanger	HA168
1	7/16-14 x 3 1/2 Bolt	HW236
1	7/16" Hex Nut	HW104
1	7/16" Lock Washer	HW310
2	1/2" Hanger Keepers	HW503



Installation diagram for:

**SYSTEM #817652**

**2007-2012 RAM 2500 & 3500 SERIES TRUCKS**

6.7L CUMMINS DIESEL ENGINE · ALL WHEELBASES

DUAL 4" DPF BACK SYSTEM

**FORCE II™**

**409S Stainless Steel**

