



# Installation Instructions

## SYSTEM #817628

2011-2013 JEEP GRAND CHEROKEE  
3.6L · V6 ENGINE

# FORCE II™

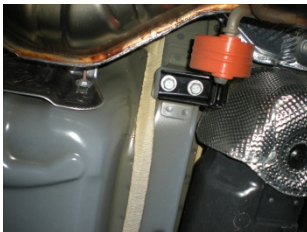
## 409S Stainless Steel

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1) Raise the vehicle up on a hoist or rack to working height. Spray a penetrating lubricant onto the four front flange bolts as well as the rubber hanger mounts that support the system. This will greatly ease removal of the factory system.



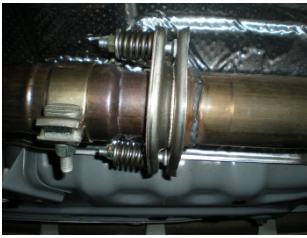
2) Begin by supporting the front and the rear of the system with a stand. Make your way forward from the rear and remove all of the wire hangers on the system from the rubber mounts on the vehicle. Then at the front flange connections, remove the nuts on the spring bolts and set the hardware aside, the springs and nuts will be reused with the Flowmaster system. With the help of an assistant, you can now lower the stands and remove the entire system from the vehicle and set aside.



3) After the system has been lowered from the vehicle, remove the two bolts that attach the first set of factory hangers behind the front flange connections. Retain the bolts; these hangers will be replaced with the **#453HA** hangers included in the parts kit.

4) Place a provided 2½" clamp onto the expanded ends of Y-pipe assembly **#16937S**. When this assembly is installed on the vehicle, the y-pipe outlet will be on the passenger side of the vehicle. With this in mind, place the inlet pipe/resonator assembly **#15168S** into the left side of the Y-pipe assembly and **#15167S** into the right side of the assembly. Place a supplied **HA168** rubber hanger onto each of the resonator hangers and then place the new **453HA** frame hangers into the HA168 rubber mounts (see the far right picture below). Place the entire assembly up behind the flanges on the vehicle and support with a stand. Using the bolts removed in step 3 above bolt the new hangers to the frame.





5) Take the provided M10-1.5x60mm bolts and slide on the flat washer. Then, put the bolts through the flanges and slide on the provided steel spacer sleeves and the springs and nuts removed in step 2 above. Tighten down the fasteners until the nuts bottom out on the steel spacer sleeves.



6) Place a provided clamp onto the inlet of muffler **#852559-300** and put up into position onto the outlet of the Y-pipe assembly. Slide the pipes fully together and connect the two hangers on the muffler assembly to the rubber mounts on the vehicle. Tighten the clamp at the inlet enough to hold, but still allow for adjustment.

7) Adjust the position of all pipes and mufflers to provide a satisfactory fit. This is a tight fitting system, so take your time and be patient, tightening and adjusting a little bit at a time. 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 all 4 muffler 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	Right Inlet Pipe/Resonator	15167S
1	Left Inlet Pipe/Resonator	15168S
1	Scavenger Assembly	16937S
1	Muffler Assembly	852559-300
1	Parts Kit	PK689
2	Frame Hanger	453HA
3	2 1/2" Band Clamp	MC250BS
4	M10-1.5 x 60MM Bolt	HW213
4	3/8"x1 1/2" Steel Spacer	HW506
2	Rubber Hanger	HA168
2	1/2" Hanger Keepers	HW503
4	3/8" Flat Washers	HW303



Installation diagram for:  
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