



# Installation Instructions

## SYSTEM #817518

### 2010 FORD MUSTANG V6

# FORCE II™

## 409S<sup>®</sup> Stainless Steel

09/14/11



1) Loosen the 15mm nut on the clamped connection between the muffler and over-axle pipe and also the over-axle pipe to the factory Y-pipe.



2) Unbolt the mounting brackets that mount the muffler to the frame (these are the two that connect the hangers on the *muffler body* to the frame). The mount connecting the hanger welded to the *inlet pipe* should remain bolted to the frame. Once these two hangers are unbolted, lower the muffler from the vehicle. Do not discard the OEM mounting brackets or hardware as they will be used in the installation of the new system. Lower the factory over-axle pipe from the vehicle and set aside.



3) To install the new Flowmaster Scavenger X-pipe assembly #16676S, the factory Y-pipe must be removed. To do this, measure back 14.00" from the weld at the rear of each of the catalytic converters and make a mark on both pipes. Be sure to double check that the measurements are correct and cut both pipes on the marks. Remove any burrs.



4) Because there is no cutout in the rear valance for the left side tailpipe, it will be necessary to make a new cutout. Follow the instructions on the attached template to properly align and make the cutout.



5) Place a 2¼" clamp onto the inlets of the new Scavenger X-pipe assembly #16676S. Place the assembly up into position and fully slide onto the back of the factory front pipes, support the rear of the assembly with a stand. Tighten the clamps enough to hold, but still allow for adjustment. Flowmaster embossing should be facing the ground.



6) Place a 2¼" clamp onto the slip-fit of over-axle pipe **#16679S** and slide onto the back of the right Scavenger outlet and support with a stand. Repeat this step with the left over-axle pipe **#16680S**.



7) Install the OEM hanger bracket removed from the rear of the factory muffler onto the rear hanger of muffler **#852467-231**. Place the muffler up into position and connect the muffler inlet to the over-axle pipe. Bolt the hanger bracket to the frame using the OEM hardware from Step 2.



8) Place the **HA168** rubber hanger onto the hanger welded to the front of muffler **#852467-231**. Connect hanger assembly **#428HA** to the rubber mount and secure to the existing holes in the frame using the supplied 5/16" x 1" thread cutting bolts.



9) Install the OEM hanger bracket removed from the front of the factory muffler onto the rear hanger of muffler **#852467-232**. Place the muffler up into position and connect the muffler inlet to the over-axle pipe. Bolt the hanger bracket to the frame using the OEM hardware.



10) Place the **HA168** rubber hanger onto the hanger welded to the front of muffler **#852467-232**. Connect hanger assembly **#415HA** to the rubber mount and secure to the existing hole in the frame using the supplied 5/16" x 1" thread cutting bolt.

11) 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.

### PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part#</u>
1	Left Muffler Assembly	852467-232
1	Right Muffler Assembly	852467-231
1	Scavenger Assembly	16676S
1	Left Intermediate Pipe	16680S
1	Right Intermediate Pipe	16679S
1	Parts Kit	PK597
	1 Left Muffler Frame Hanger	415HA
	1 Right Muffler Frame Hanger	428HA
	6 2¼" Band Clamp	MC225BS
	2 3/8" Hanger Keepers	HW501
	2 7/16" Hanger Keepers	HW502
	3 5/16" x 1" Bolt	HW229
	2 Rubber Hanger	HA168

ALIGN WITH BODY LINE

ALIGN WITH BODY LINE

## #817518 - MUSTANG V6 BUMPER CUT-OUT TEMPLATE

- 1) Use scissors to cut out this template along the lines.
- 2) Align the template on the bumper by matching up the contours of upper body line and the bottom edge of the bumper valance. Tape the template in place.
- 3) Use a paint pen or silver marker to mark the contour onto the valence. Remove template after marking.
- 4) Use a jigsaw, sawsall or die grinder to carefully cut along the contour. Use a file to clean up the edges after cutting.

INTERNAL REF 9.00"

BOTTOM EDGE OF BODY



Installation diagram for:  
**SYSTEM #817518**  
2010 MUSTANG V6

**AMERICAN THUNDER**

**409S. Stainless Steel**

