



409S® Stainless Steel **SYSTEM #817358**

1998-2002 CHEVROLET CAMARO/PONTIAC FIREBIRD
3.8L • V6 ENGINE

08/16/11

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) Using a hacksaw or sawsall, cut the inlet pipe off where it enters the muffler case. Separate the hanger rod on the left tailpipe from its rubber hanger mount. This will allow you to remove the entire muffler tailpipe assembly.
- 3) The rear panhard bar must be rotated down to allow the over-axle pipe to be removed. The bar runs above and parallel to the rear end housing. There are three bolts that secure it to the unibody which must be removed. There are also two small sheet metal screws which fasten the bar to a heatshield that need to be removed. Once these are removed, pull the bar down as far as you can. (Keep all of the bolts because you will need to put them back.)
- 4) Using a prybar, separate the metal hanger rod from the rubber mount at the rear of the over-axle pipe.
- 5) Loosen the band clamp on the front pipe to cat connection. There is a square hole in the cross brace that allows you to reach it with a 15mm deep socket and extension. Once loose, the pipe can be slid back off of the cat pipe. If you are working on a rack, you will be able to now swing the whole pipe down and negotiate it out from over the axle. If you are working on the ground, you will need to cut the pipe off before it goes over the axle to get it out.

Installation:

- 1) Before installing anything, prep the clamps supplied in the hardware kit by removing the nuts, and applying a thick lubricant such as white grease or anti-seize to the threads.
- 2) Place the 2-1/4" clamp over the end of the resonator pipe. Install the resonator assembly **#15128S** in position behind the catalytic converter. Tighten the clamp enough to hold in place, but still allow for adjustment.

- 3) Negotiate the over-axle pipe **#16384S** up over the rear end. Install one of the 2-1/2" clamps over the front of the pipe and slip the pipe over the resonator outlet. Connect the hanger rod at the back end of the pipe with the rubber mount on the vehicle.
- 4) The rear panhard bar should now be pushed back up and bolted back into place. The heatshield should also be fastened back onto the bar.
- 5) Place the three remaining 2-1/2" clamps onto the muffler necks and tighten them enough to hold in place, but still allow for adjustment.
- 6) Lift the muffler into position and slide the neck marked "INLET" onto the over-axle pipe. Use a stand of some sort to temporarily support the muffler.
- 7) Install the left tailpipe **#16386S** by sliding the hanger into the factory rubber mount and insert the pipe into the muffler outlet.
- 8) Install the right tailpipe **#16385S** by sliding the pipe into the muffler outlet.
- 9) Adjust the position of the pipes and muffler 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. For a more secure installation, we recommend welding all slip-fit connections.

PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part#</u>
1	Resonator	15128S
1	Over Axle Pipe	16384S
1	Muffler	852583-Z
1	Right Tailpipe	16385S
1	Left Tailpipe	16386S
1	Parts Kit	PK572
1	2 1/4" Clamp	MC225BS
4	2 1/2" Clamp	MC250BS



Installation diagram for:

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THUNDER**

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