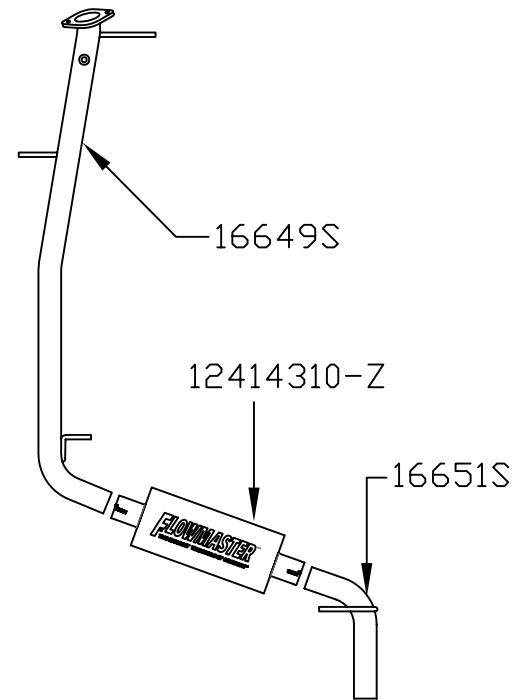




Installation diagram for:  
**SYSTEM #819110**  
 90-97 MAZDA MIATA  
 1.6L & 1.8L ENGINE

**dBX series™**  
**409S® Stainless Steel**

PACKING LIST				
<u>QTY</u>	<u>DESCRIPTION</u>		<u>PART #</u>	
1	Inlet Pipe Assembly		16649S	
1	dBX Muffler		12414310-Z	
1	Tailpipe Assembly		16651S	
1	Parts Kit		PK524	
2	2 1/4" Band Clamp		MC225BS	
1	Gasket		GA113	
4	7/16" Hanger Keepers		HW502	
1	O2 Plug		SF017	



05/02/11

**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) Begin by applying a penetrating lubricant to the nuts at the flanged connection behind the catalytic converter, as well as the rubber hanger mounts that support the system.
- 3) If your vehicle is equipped with an O2 sensor behind the catalytic converter, carefully remove it now and save it for reinstallation with the new system.
- 4) Support the system with a stand of some type, and then remove nuts at the flanged connection. Separate the hanger rods from the rubber mounts, and then carefully remove the entire system from under the vehicle.

**Installation:**

- 1) Place the supplied new gasket onto the converter outlet, and then raise the new mid pipe **#16649S** into place. Connect the hanger rods with the rubber mounts on the vehicle, and secure the flange connection using the original nuts.
- 2) Place a supplied clamp onto both ends of the new muffler, and then place the muffler inlet neck onto the mid pipe. (The muffler will be stamped with the word inlet on one end). Tighten the clamp just enough to hold in place.

- 3) Place the tailpipe **#16651S** into the muffler outlet, and connect the hanger rod the rubber mount. Tighten the outlet clamp just enough to hold in place.
- 4) Now go back and adjust the position of the pipes, muffler and tip so everything fits properly. Then securely tighten down all the clamps.
- 5) Install the provided push-on keepers onto each of the hanger rods. These keepers will help hold the system in place and prevent the rods from slipping out of the mounts.
- 6) Confirm that you either have the O2 sensor (if equipped) or the provided plug installed into the fitting located just behind the flange on the 16649S pipe.