

## Dual Tip Muffler

### Installation Instructions

**Fits: 1999-2005 Mazda Miata – manual transmission only**

PART # 909-680

#### Tools required:

- Floor jack
- Jack stands
- Hack saw or body saw
- Round file or die grinder and barrel sander
- Measuring tape
- Masking tape
- Felt tipped pen
- 17mm wrench or socket and ratchet
- Tongue and groove pliers
- Silicon spray
- Penetrating oil

- 1) On flat level ground, lift the rear of the car and support the weight of the car on jack stands. Never work on or under a vehicle using only a floor jack.
- 2) Use a 17mm wrench to remove the nuts that fasten the muffler to the mid pipe. Use penetrating oil to help free the fasteners if they are rusted on.

Use silicon spray to lubricate the muffler hangers. Use tongue and groove pliers to free the hangers from the muffler and remove the muffler from the car.

- 3) Use a measuring tape to precisely measure the factory exhaust cutout in the rear bumper fascia. Measure from the back corner of the wheel arch to both the outside corners of the exhaust cutout and the inside corner of the exhaust cutout. Record these measurements. You will want your new exhaust cutout to be in the exact same place except on the left side of the bumper fascia.



**Illustration 3**



**Illustration 3 cont.**

- 4) Use a felt tipped marker and the measurements you took in the previous step to mark the two corners of the exhaust cutout along the bottom edge on the left side of the fascia.



**Illustration 4**



## Installation Instructions

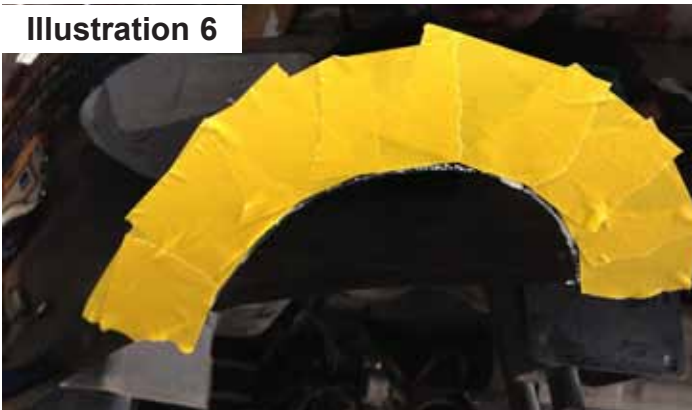
- 5) Cut the paper template from the back of these instructions. Tape the cutout to the fascia so that the corners of the template line up with the marks you made on the fascia in the previous step.

**Illustration 5**



- 6) Use masking tape to cover the fascia behind the paper template. This will protect the paint when you begin to cut and also give you a surface to draw on. Trace along the outside edge of the template to transfer the shape of the cutout onto the fascia.

**Illustration 6**



- 7) Remove the paper template from the fascia. Use a hack saw or a body saw to make the exhaust cutout. Use a round file or barrel sander to smooth the line and remove any sharp edges. Remove the masking tape once the cutting and filing is done.

**Illustration 7**



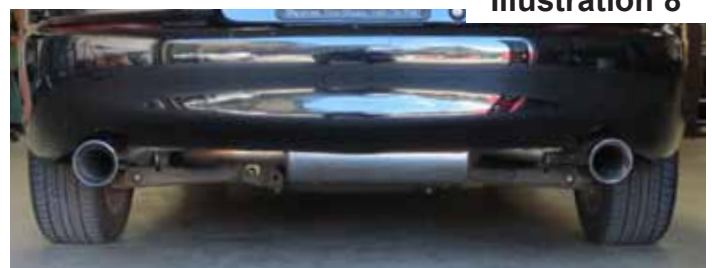
**Illustration 7 cont.**



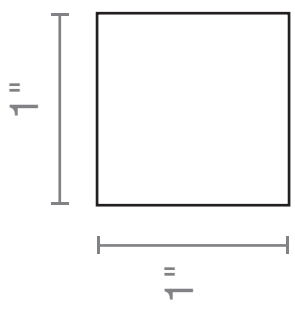
- 8) Install the new dual tipped muffler into the muffler hangers. Install the factory nuts to secure the muffler to the mid pipe. Use anti-size compound on the studs and nuts to keep them from rusting together. Test drive the car to allow the muffler to settle into its natural resting position.



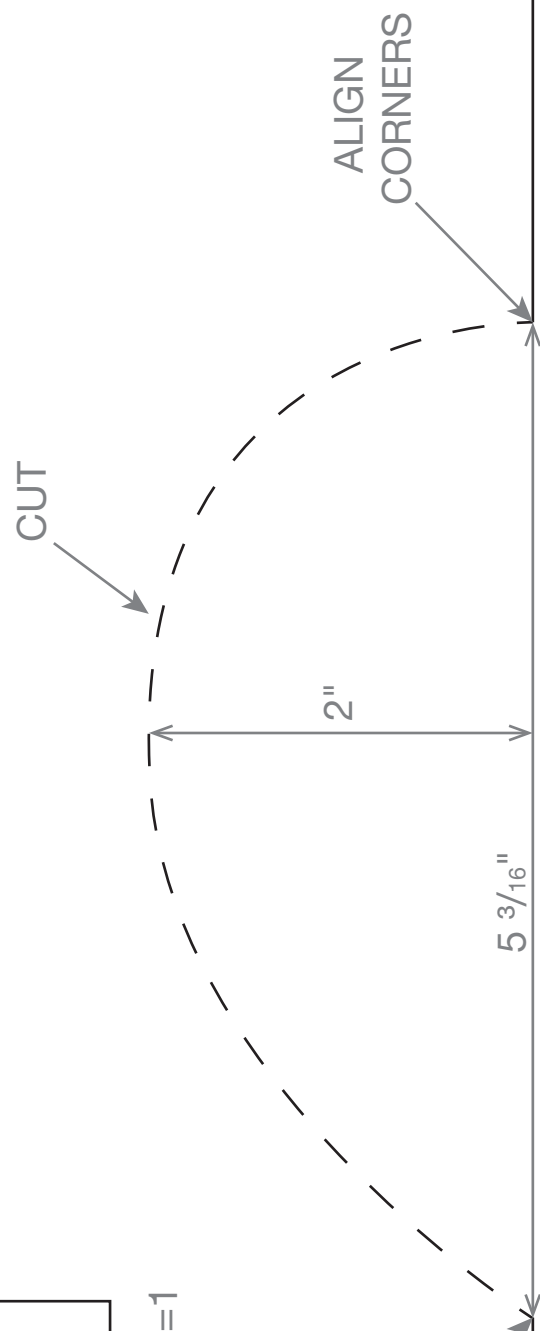
**Illustration 8**



Enjoy your new Cobalt dual tip muffler!



SCALE: 1=1



ONCE PRINTED, INSURE MEASUREMENTS MATCH.