RACINGBEAT LLC

I-71201

Mazda 3 Exhaust System - 2.3L Sedan & 5-Door
Installation Instructions

Read All Steps Before Proceeding. If you have any questions regarding the following process, contact Racing Beat before proceeding!

Tools Required:
Metric Socket Set
12" Socket Extension
Torque Wrench
Hacksaw
Spray Lubricant (WD 40)
Non-seizing thread agent
Metal File
Tape Measure
Floor Jack
(4) Jack Stands

Estimated time required: 1.5 Hours
People Required: 1-2

Note: It is necessary to cut the tubing of the stock exhaust system during the following removal and installation procedures. (Attempting to remove the stock exhaust system in one piece requires the use of an automotive lift, and the lowering of the rear subframe unit from the chassis.)

Removal:

It is suggested that the exhaust be "cold" before attempting to install these components. Exhaust components (especially the catalytic converter) may retain heat for a substantial period of time after the car has been shut off. Furthermore, you may experience difficulty removing the nuts on "hot" exhaust components. If you experience difficulty removing the nuts on a "cold" component, apply a loosening agent (i.e. WD 40) and slowly and carefully work the nuts off the studs. It is recommended that a "non-seizing" agent is applied to all threaded components during installation.

1. Raise the car and place it on four (4) jack stands. Never work on a car supported only by a floor jack.

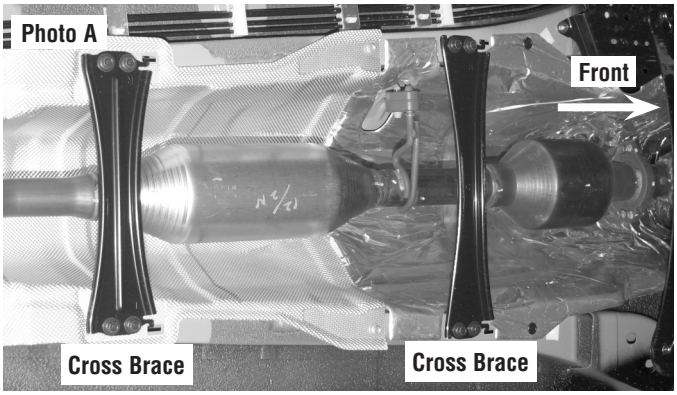
2. Remove the two (2) cross braces from the mid-section of the car. Photo A

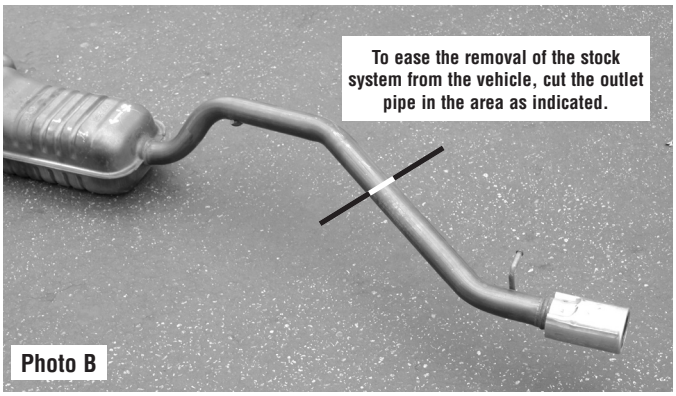
3. Mark a cutting position near the tail tip as indicated in Photo B. Using a hacksaw , cut the tubing at the marked location. Remove the tail tip section from the car.

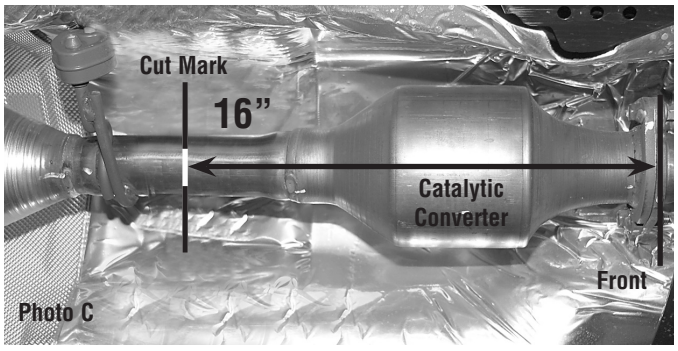
4. Remove the retaining bolts that secure the forward flange of the exhaust system. Ease the hangers from the rubber grommets and carefully maneuver the exhaust system from the car. (Guide the system forward and outward just aft of the driver's side front tire.)

5. The forward section of the stock system that contains the catalytic converter will be removed and retained in the Racing Beat exhaust system. Use a marking pen and mark the "bottom" of the catalytic converter for reference. Using Photo C as a reference guide, make a cutting mark 16" **behind the forward edge of the catalytic converter flange section**. Using a hacksaw, carefully cut the stock system at the measurement mark.

6. Deburr the edges of the cut. Noting the correct orientation of the catalytic converter, and using the original mounting hardware, reinstall this section onto the car.







7. Install the Racing Beat system by carefully maneuvering the muffler section over the rear subframe, then insert the hangers into the rubber grommets.

8. Place the supplied 2⅛" ID pipe clamp over the forward tube on the Racing Beat presilencer section. Maneuver the Racing Beat presilencer pipe section onto the car, slipping the forward tube over the outlet pipe from the catalytic converter section. Insert the hanger into the rubber grommet.

9. Using the supplied bolts/nuts and donut gasket, connect the muffler and presilencer sections. Tighten the 2/⅛" pipe clamp at the front of the presilencer section. Replace the crossmember braces.

Use the following torque specifications:
- Catalytic converter forward flange: 29-37 ft/lbs
- Crossmember braces: 13-19 ft/lbs
- Presilencer to muffler: 25 ft/lbs

10. Place the 2 1/2" pipe clamp over the end of the tail tip section and slip it onto the outlet tube. Position the tip correctly in the bumper opening and tighten the clamp. The clamp be must secured tightly to prevent leakage and to align the tip in the bumper opening.

11. Lower the vehicle and start the car. Check for exhaust leaks at the pipe junctions. Inspect all connections, fasteners, hangers, and clamps after 50 miles of driving and retighten as necessary.

Note: You may notice an "oily" smell during the break-in period of your exhaust system. This is a result of lubricating materials used during the manufacturing process and is considered "normal".