

## Miata Race Connecting Pipe\* 1999-2005

This race connecting pipe is designed to replace the Mazda connecting pipe on the 1999-2005 Miata. This race connecting pipe eliminates the factory catalytic converter that is incorporated into the Mazda connecting pipe. This component is legal only for racing vehicles which may never be used upon a highway. It is assumed that the emissions control devices will not be utilized with this vehicle.

### **Important Gasket Notes:**

The Racing Beat Race Connecting Pipe is supplied with grooved-flanges designed to universally mate with all stock Mazda exhaust components, Racing Beat components, and compatible aftermarket components.

### **Connection to Stock Mazda Components**

When connecting our race connecting pipe to a stock Mazda front pipe or muffler, a Mazda-style circular donut gasket must be used with the Mazda grooved-flanges to prevent an exhaust gas leak. The use of a conventional flat surface flange and standard flat gasket will NOT seal correctly at these two connection points. The Mazda grooved-flange surface is NOT flat and the use of a flat surface flange and flat gasket at these positions will leak – profusely!

### **Connection to Racing Beat Exhaust Components**

When connecting our race connecting pipe to a Racing Beat header and/or muffler, use the provided Mazda-style circular donut gaskets. If needed, a small piece of tape may be used to hold these gaskets in place during installation.

### **Connection to other aftermarket components**

If connecting to an aftermarket header or muffler with a flat surface, non-grooved flange, use the flat gasket(s) provided by the manufacturer. If needed, flat replacement gaskets are available from Racing Beat (PN 16352).

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## Installation Instructions

Raise the car and place on jack stands. Never work under a car supported only by a floor jack.

Spray the front and rear Mazda connecting pipe retaining nuts with a penetrating spray before attempting to loosen. Remove the securing nuts (use the penetrating spray and work slowly). You may find it necessary to spray the rubber mounting bushings with silicone spray to facilitate removal.

### **Select your application from the following:**

<b>Installation on a California emissions-equipped Miata - not equipped with a Racing Beat Header</b>
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1. Read and understand the Important Gasket Notes.
2. Remove the Mazda connecting pipe and install the Racing Beat connecting pipe using the supplied gaskets (if applicable). Tighten all bolts to 32-44 ft/lbs. Start the vehicle and check for exhaust leaks using soapy water.

\*This component is legal only for racing vehicles which may never be used upon a highway.

**Installation on a California emissions-equipped Miata  
- equipped with a Racing Beat Header**

During the installation of the Racing Beat header, a mounting position for the oxygen sensor is/was recommended to be installed in the Mazda connecting pipe. This oxygen sensor is/was intended to be relocated to this position and a recommended wiring extension is/was utilized to connect the sensor to engine.

1. Read and understand the Important Gasket Notes.
2. If equipped as described, unplug and remove the relocated oxygen sensor from the Mazda connecting pipe.
3. Remove the Mazda connecting pipe and install the Racing Beat connecting pipe use the supplied gaskets (if applicable). Tighten all bolts to 32-44 ft/lbs.
4. Using the wiring extension, relocate this heated sensor to an “open area” in the engine compartment of the vehicle and secure. (Positioning the oxygen sensor in the engine compartment allows this sensor to analyze “clean-air”, and protects the sensor from the elements.) Take precautions, this is a heated sensor!
5. Start the vehicle and check for exhaust leaks using soapy water.

**Installation on a Federal emissions-equipped Miata  
- equipped with or without a Racing Beat Header**

1. Read and understand the Important Gasket Notes.
2. Unplug and remove the oxygen sensor from the Mazda connecting pipe.
3. Remove the Mazda connecting pipe and install the Racing Beat connecting pipe using the supplied gaskets (if applicable). Tighten all bolts to 32-44 ft/lbs.
4. Re-position the oxygen sensor using one of the following methods:

**Option A (recommended):**

Using the optional Racing Beat wiring extension (Part No. 90022), relocate the heated sensor to an “open area” in the engine compartment of the vehicle, and secure. (The Racing Beat wiring harness extension features plug-in style factory connectors.) Positioning the sensor in the engine compartment allows this sensor to analyze “clean-air”, and protects the sensor from the elements. Take precautions, this is a heated sensor!

**Option B:**

Cut the connectors from the stock wiring harness and custom fabricate an extension. Position and secure the heated oxygen sensor in the engine compartment in an “open area”.

5. Start the vehicle and check for exhaust leaks using soapy water.