

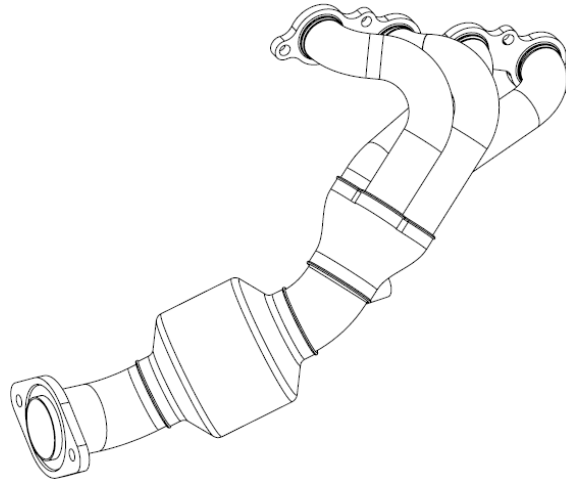


INSTALLATION INSTRUCTIONS

Direct Fit Catalytic Converter

MAKE: Mazda
MODEL: Miata
YEAR: 2016-2020
ENGINE: 2.0L

47-47001



Item	Description	Part Number	Quantity
1	Direct Fit Catalytic Converter Assembly	05-144757	1
2	Screw, Socket Hd Cap, M10 x 1.5 x 25mm	03-50418	2
3	Nut, M10 x 1.5 mm	05-50628	2
4	Warranty Sheet, Catalytic Converters	06-00140	1

aFe POWER recommends professional installation on this product. Thoroughly inspect the aFe POWER exhaust system to make sure there is no damage from shipping (if damage is noted, immediately contact aFe POWER customer service). Allow time for your vehicle to cool down prior to installation. When working on your vehicle proceed with caution. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation.

Install band clamps to proper torque specifications of 40-45 ft-lb.





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1. **(Read instructions prior to installation.)** It is recommended to not fully tighten the exhaust until it has been fully installed. Leave loose for adjustability.
2. Secure vehicle on jack stands (refer to your manual for specified jack stand positions).
3. For faster installation, spread out the parts of the exhaust alongside your vehicle as shown in the diagram above.
4. Secure the stock exhaust with jack/stands.
5. Remove the (x2) 14mm nuts from the OE exhaust manifold underneath the car.
6. Remove the (x4) 14mm bolts securing the OE exhaust manifold brace to the engine block.
7. In the engine bay remove the (x3) 10mm bolts to remove the factory heat shield.
8. As a pre-caution use Blue Painter's Tape to tape the factory valve cover to prevent scratches on the valve from removal of the OE exhaust manifold.
9. Unplug the O2-sensor from its female plug.
10. Remove the O2-sensor using a O2-sensor socket.
11. Remove the (x5) 14mm nuts securing the OE exhaust manifold to the engine.
12. Remove the OE exhaust manifold by sliding up through the engine, carefully as not to damage the valve cover and surrounding hoses.
13. Install aFe Direct Fit Catalytic Converter by sliding in through engine bay.
14. Install the (x5) 14mm nuts onto the aFe Direct Fit Catalytic Converter but do not tighten.
15. Remove the OE crush style gasket from the OE exhaust manifold and install it on the aFe Direct Fit Catalytic Converter.
16. Using the supplied hardware install the OE exhaust to the aFe Direct Fit Catalytic Converter.
17. Start from the middle nut of the engine block and evenly tighten the (x5) 14mm nuts on the aFe Direct Fit Catalytic Converter.
18. Install the O2-sensor onto the aFe Direct Fit Catalytic Converter.
19. Ensure that all the components of the aFe Direct Fit Catalytic Converter are aligned and are at a safe clearance from all wires, hoses, brake lines, body parts, and tires.
20. Go back and tighten all hardware.
21. Start the vehicle and check for any leaks. If any leaks are found, determine cause and repair as necessary.
22. Remove vehicle from jacks stands.
23. It is recommended to re-tighten all hardware after 50-100 miles.