



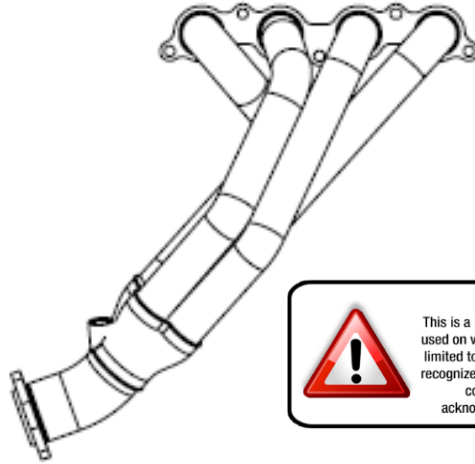
INSTALLATION INSTRUCTIONS

Twisted Steel Race Header

MAKE: Mazda
MODEL: Miata
YEAR: 2016-2019
ENGINE: 2.0L

48-37003-HN

NOTE: O2 Sensor Extension Included for Proper Installation



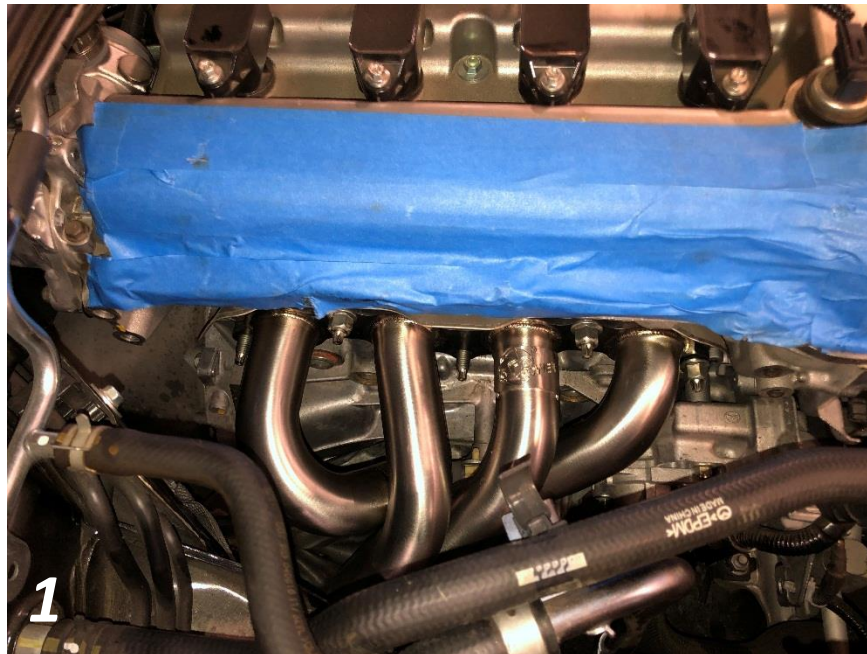
RACE ONLY DISCLAIMER

 This is a Race Only product that is to be used solely for competition, it cannot be used on vehicles that are operated on public streets, roads or highways. Its use is limited to closed-course and open-course racing that is formally sanctioned by a recognized racing organization. Any other use, including recreational off-road use, could be in violation of local, state and federal laws. A competition acknowledgement / liability release form must be filled out and submitted.

Item	Description	Part Number	Quantity
1	Race Header Assembly	05-145758	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	Extension, O2 Sensor: Hi-Temp 12"	07-70040	1
5	Ties, Nylon Cable: 12", 50 lb. Black	05-60167	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. Secure the stock exhaust with jack/stands.
4. Remove the (x2) 14mm nuts from the OE exhaust manifold underneath the car.
5. Remove the (x4) 14mm bolts securing the OE exhaust manifold brace to the engine block.
6. In the engine bay remove the (x3) 10mm bolts to remove the factory heat shield.
7. 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. **See reference image 1.**
8. Unplug the O2-sensor from its female plug.
9. Remove the O2-sensor using a O2-sensor socket.
10. Remove the (x5) 14mm nuts securing the OE exhaust manifold to the engine.
11. Remove the OE exhaust manifold by sliding up through the engine, carefully as not to damage the valve cover and surrounding hoses.
12. Remove the plastic clip securing the OE O2-sensor, it will not be utilized.
13. Install aFe POWER Twisted Steel Race Header by sliding in through engine bay.
14. Install the (x5) 14mm nuts onto the aFe POWER Twisted Steel Race Header but do not tighten.
15. Remove the OE crush style gasket from the OE exhaust manifold and install it on the aFe POWER Twisted Steel Race Header.
16. Using the supplied hardware install the OE exhaust to the aFe POWER Twisted Steel Race Header.
17. Start from the middle nut of the engine block and evenly tighten the (x5) 14mm nuts on the aFe POWER Twisted Steel Race Header.
18. Install the O2-sensor onto the aFe POWER Twisted Steel Race Header.
19. Using the O2-sensor extension connect the O2-sensor to the OE plug location.
20. Use the supplied nylon cable tie to route O2 extension through the motor mount away from aFe POWER Twisted Steel Race Header.
21. Ensure that all the components of the aFe POWER Twisted Steel Race Header are aligned and are at a safe clearance from all wires, hoses, brake lines, body parts, and tires.
22. Go back and tighten all hardware.
23. Start the vehicle and check for any leaks. If any leaks are found, determine cause and repair as necessary.
24. Remove vehicle from jacks stands.
25. It is recommended to re-tighten all hardware after 50-100 miles.