

# Installation Guide

PPE Engineering Full Length Header  
for Toyota MR2 Spyder



## Pre-Installation:

1. Remove 4 upper heat shield bolts.
2. Remove both oxygen sensors from the exhaust manifold.
3. Remove plastic belly pans under engine compartment.
4. Remove oxygen sensor from the catalytic converter.
5. Remove bolts connecting main cat to cat-back exhaust.
6. Remove bolts connecting main cat to exhaust manifold.
7. Remove Main cat  
-TIP: Use vice-grip pliers to remove cat from rubber hanger.
8. Remove brackets attaching exhaust manifold to block. (under manifold)
9. Remove manifold flange bolts and remove exhaust manifold.

## Header Installation:

1. Using stock gasket and stock bolts attach header to cylinder head.

## Installation of downpipe and high flow cat:

1. Mount on hanger. (Use WD40 to aid in installation)
2. Attach to header with supplied bolts.
3. Attach to cat-back exhaust with stock bolts.
4. Replace O2 sensor (and connect O2 conditioner for downpipes, refer to Conditioner instructions).

## Wiring Harness Installation:



1. Cut plastic connectors off of the two main O2 sensors leaving around 3 inches of wire on the connector.
2. Strip wires on the connectors and one of the O2 sensors, slide heat-shrink over the end.



Attach connectors and O2 sensor to the wiring harness, in **the positions shown above**, using a crimping tool.

3. Slide heat-shrink over butt-connectors and shrink using heat gun or lighter.
4. Attach new wiring harness to stock harness. Route the cable behind the cylinder head following the stock wiring harness.

5. Route sensor end to the O2 sensor bung in the header and screw in the O2 sensor.
6. Use supplied wire ties to secure wiring harness.
7. Attach external resistor to firewall using supplied screws. You may use any other location away from exhaust.



Double check all connections before installing.

**Damage may occur if wiring harness is installed incorrectly!**