



# Installation instructions

## SPS COP Kit MX-5 NA 1.8L

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<b>Editor:</b>	Nico Hafner	<b>Vehicle:</b>	Mazda MX-5 NA 1.8L

### Scope of delivery:

- 4x NGK COP ignition coil
- 1x wiring loom for COP kit with integrated resistors
- 1x COP adapter plate
- 3x plastic spacer
- 3x Cylinder head hex screw
- 1x Hella Superseal connector to connect the SPS wiring loom to the OEM wiring loom

### Warning:

Please read this instruction before installation and get in touch with the work on the car! Ideally, have the installation done by a professional workshop. Tighten all screws with the torque recommend by the manufacturer. The assembling company is liable for installation mistakes. In case of manufacturing defects, the corresponding components will be replaced without any costs within the warranty period.

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### **Preparation work:**

- Park the vehicle, switch off the engine and let the engine cool down
- Remove the OEM spark plug wires and coils

### **Installation of the adapter plate and COP's:**

- Remove the three center screws of the valve cover
- Remove the OEM ignition cable brackets in the center of the valve cover
- Place the three plastic spacers on the bolt holes you just removed
- Place the adapter plate that way, that the SPS logo points to the front
- Tighten the adapter plate to the valve cover using the supplied hex screws, torque according to manufacturer's advice 10Nm
- Insert the COP's and check that they fit well

### **Electrical connection of the COP kit:**

- To connect the SPS wiring loom to the OEM wiring loom you'll need wires of the OEM ignition coils. You connect the OEM wiring loom as following to the SPS wiring loom:

<b><u>Wire color OEM wiring loom</u></b>	<b><u>Function</u></b>	<b><u>Wire color SPS wiring loom</u></b>
Blue	+12V	Red
Brown/yellow	Ignition signal 1	Yellow
Brown	Ignition signal 2	Green
Black	Ground	Black

- For a signal to the rpm cluster set the jumper "TACH OUT" on your standalone ECU
- Connect the coils to the SPS wiring loom

### **Final work on the vehicle:**

- Check for full function of the ignition system and rpm cluster
- Isolate all the cut off wires water tight

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