

## Eliminating Symptoms - Engine: Replacing Intake Manifold Pressure Sensor (Vehicle jerking while driving/SY2314)

### Eliminating symptoms - Engine: Replacing intake manifold pressure sensor (Vehicle jerking while driving)

Vehicle Type: **918 Spyder**

Model Year: **2015**

Subject: **Intake manifold pressure sensor**

Symptom: Vehicle jerking while driving using the combustion engine.

Cause: If the vehicle is driven continuously in the high-load range (e.g. race track driving), vibrations can damage the connector contacts on the intake manifold pressure sensors.

Remedial Action: **In the event of a complaint and if fault codes are entered** (see overview below), **check** which type is installed on the vehicle - **with or without adapter intermediate piece** on the intake manifold pressure sensor connector.

⇒ **Depending on which type is installed:**

- an **existing adapter intermediate piece must be replaced by a new adapter cable** or
- the **adapter intermediate piece must be removed and the connector on the engine wire harness must be replaced.**

Date of Introduction: Modified intake manifold pressure sensors have been installed during production since the end of April 2014.

#### Overview of fault codes

Fault code:	Cylinder bank:	Component:	Fault:
P010600	⇒ Bank 1	Intake manifold pressure sensor	Signal implausible
P010700	⇒ Bank 1	Intake manifold pressure sensor	Short circuit to ground
P010800	⇒ Bank 1	Intake manifold pressure sensor	Short circuit to B+
P2A0B00	⇒ Bank 2	Intake manifold pressure sensor	Signal implausible

P024100 ⇒ FC is replaced by: P2A0C00	⇒ Bank 2 ⇒ Bank 2	Intake manifold pressure sensor Intake manifold pressure sensor	Short circuit to ground Short circuit to ground
P024200 ⇒ FC is replaced by: P2A0D00	⇒ Bank 2 ⇒ Bank 2	Intake manifold pressure sensor Intake manifold pressure sensor	Short circuit to B+ Short circuit to B+

## Parts Info:

**Variant a) 918.607.105.00 – NEW** – ⇒ Adapter with cable (2 ea. required)

**Variant b) 918.607.913.00 – NEW** – ⇒ Engine wire harness connector (**set, 2 ea. required**; consisting of: connectors, contacts and single-wire seal)

**991.606.180.00 – NEW** – ⇒ Intake manifold pressure sensor

## Work

## Procedure:

**Replace intake manifold pressure sensor:**

- 1 Remove exhaust system, see Workshop Manual ⇒ *Workshop Manual '260119 Removing and installing exhaust system'*, section on "Preliminary work" and "Removing exhaust system".
- 2 Evaluate existing type:

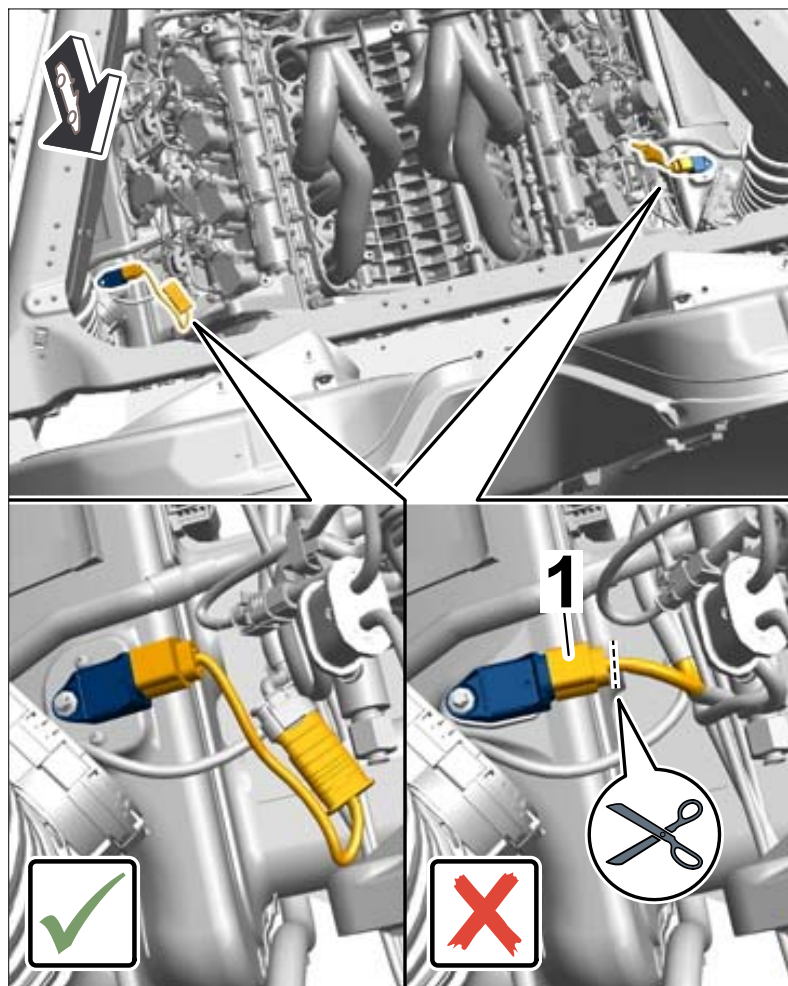


Figure 1

- 2.1 If the **adapter intermediate piece is already fitted** between the engine wire harness and intake manifold pressure sensor connector (⇒ *Figure 1-Left-*)

⇒ Replace the **existing adapter intermediate pieces with the adapter cables** (variant a – Part No.: 918.607.105.00 – Adapter with cable – 2 required) **and replace the intake manifold pressure sensors.**

Continue with Step ⇒

- 2.2 If there is **no adapter intermediate piece** between the engine wire harness and intake manifold pressure sensor connector (⇒ *Figure 1-Right-*)  
The engine wire harness connector (⇒ *Figure 1-Posi. 1-*) is secured directly to the intake manifold pressure sensor connector.

⇒ **The engine wire harness connector must be reworked:**

- 2.2.1 Disconnect engine wire harness connector from the cable (⇒ *Figure 1 - Use wire cutters - Pos. 1-*) and crimp the new connector with new contacts and single-wire seals (variant b – Part No. of set: 918.607.913.00 – 2 required) to the engine wire harness.
- 2.2.2 Repeat Step ⇒ 2.2.1 on the other cylinder bank.
- 3 Install exhaust system, see Workshop Manual ⇒ *Workshop Manual '260119 Removing and installing exhaust system'*, section on "Installing exhaust system" and "Subsequent work".

**End** of action required.

Invoicing: The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
24801951	Removing and installing intake manifold pressure sensor	
24801952	Removing and installing intake manifold pressure sensor	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	24800	Intake manifold pressure sensor
Damage type (SA4)	9735	Repair in accordance with PAG instructions

References: ⇒ *Workshop Manual '260119 Removing and installing exhaust system'*

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