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WM 287315 Eliminating symptoms - Engine: Adjusting distance from pulse sender to sensor wheel (increased engine speed after starting engine/SY1610)

Technical values

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Distance between pulse sender and sensor wheel		Gap dimension	1.2 mm		
Fastening screw on pulse sender		Tightening torque	10 Nm (7.5 ftlb.)		

General information

Symptom

On vehicles with 6-speed manual transmission (I-no. 480), the engine speed can overshoot up to 3000 rpm when starting the engine.

Causes and remedial action

Cause

If the distance between the pulse sender and sensor wheel is not within the prescribed tolerance, engine speed overshoot can occur when starting the engine.

Remedial action

In the event of a complaint, the distance between the pulse sender and sensor wheel must be adjusted.

Tools and materials

Tools and materials

Feeler gauge set (commercially available)

Adjusting distance of pulse sender

Adjusting distance of pulse sender

1. Remove transmission, see Workshop Manual, → *343519 Removing and installing transmission - section on "Removing"*.
2. The two fastening screws (**-arrows-**) for the pulse sender must now be **loosened**.

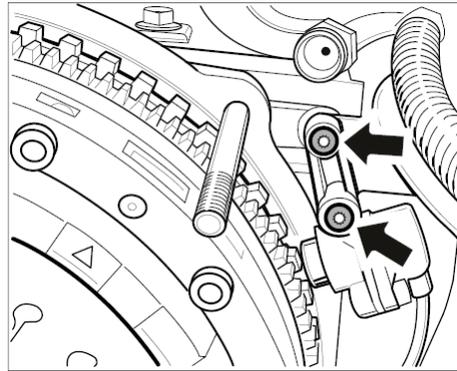


Figure 1

- Using the correct feeler gauge, adjust the distance between the pulse sender and sensor wheel (**-inset-**) to → **Gap dimension: 1.2 mm.**

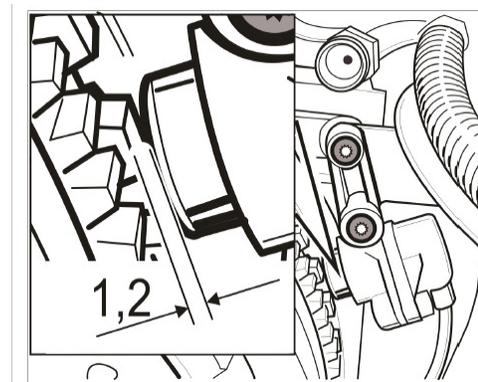


Figure 2

- Tighten the two fastening screws (**-arrows-**) again to → **Tightening torque: 10 Nm (7.5 ftlb.)**.
- Check the **distance** set between the pulse sender and sensor wheel **at two further positions** by turning the crankshaft:

If the existing gap dimension does not correspond to the required dimension of 1.2 mm, repeat Steps 3 and 4.

- Install transmission, see Workshop Manual, → *343519 Removing and installing transmission - section on "Installing"*.

Working time

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34351906: Removing and installing transmission; Labor time **500 ZE**

28731550: Adjusting pulse sender; Labor time **10 ZE**

997420, 997421, 997450, 997451, 997630, 997631, 997650, 997651, 997810, 997811, 997820, 997830, 997850, 997851, 997870

Model year as of 2007, Model year up to 2009

C00, C02, C05, C06, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C32, C33, C34, C35, C36, C37, C38, C39, C41, C45, C45, C46, C96, C97, C98, C99