

Symptom - Engine - Engine Speed Fluctuations While Idling: Re-Coding Gateway Control Unit (SY 50/20)

Vehicle type: **Panamera GTS (971)/Panamera GTS Sport Turismo (971)**

Model Year: **2019**

Subject: **Gateway control unit**

Symptom: Engine speed fluctuations occur while idling.

Cause: A load request or generator gear ratio value was not transferred correctly.

Remedial Action: In the event of a customer complaint, re-code the gateway control unit.

Date of Introduction: Adapted software used from:

Date	28.01.2019
VIN	WPOAA2A75KL100752

Required tools

- Tools:
- **9900 - PIWIS Tester 3** with installed PIWIS Tester software **version 39.300.015** (or higher)
 - **Battery charger** with a current rating of **at least 90 A**, e.g. **VAS 5908 Battery charger 90A**.

Re-coding gateway control unit

NOTICE

Fault entry in the fault memory and/or control unit coding aborted due to undervoltage.

- Increased current draw during diagnosis or control unit coding can cause a drop in voltage, which can result in one or more fault entries and the abnormal termination of the coding process.

⇒ Before getting started, connect a suitable battery charger with a current rating of at least 90 A to the jump-start terminals.

NOTICE

Control unit coding will be aborted if the WiFi connection is unstable.

- An unstable WiFi connection can interrupt communication between the PIWIS Tester and the vehicle communication module (VCI). As a result, coding may be aborted.

⇒ During control unit coding, always connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable.

NOTICE

Control unit coding will be aborted if the driver's key is not recognized

- If the driver's key is not recognized in the vehicle, coding cannot be started or will be interrupted.
- ⇒ Place the driver's key with the back facing down into the front left storage compartment in the center console to guarantee a continuous radio link between the vehicle and the driver's key.



Information

The procedure described here is based on the PIWIS Tester 3 software version **39.300.015**.

The PIWIS Tester instructions take precedence and in the event of a discrepancy, these are the instructions that must be followed.

A discrepancy may arise with later software versions for example.

Work Procedure: 1 **Re-code gateway control unit automatically.**

Required PIWIS Tester software version:	39.300.015 (or higher)
Type of control unit coding:	Control unit coding using the 'Automatic coding' function for the control unit: Select 'Gateway' control unit – 'Coding/programming' menu – 'Automatic coding' function.
Coding sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided procedure. Do not interrupt coding. When coding is complete, the message "Coding has been completed successfully" is displayed and a tick appears in the 'Status' box.
Procedure if control unit coding is not successful :	Repeat control unit coding.

Invoicing

Invoicing: For documentation and warranty invoicing, enter the labor operation and PQIS coding specified below in the warranty claim:

APOS	Labor operation	I No.
90352550	Programming gateway control unit	

PQIS coding:

Location (FES5)	10010	Engine
Damage type (SA4)	2026	rough-running

References: => *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2020 Porsche Cars North America, Inc.