Uneven Engine Running as Well as Active Yellow Malfunction Indicator Light/Fault Memory Entry "P031600" in the DME Control Unit: Re-Programming DME Control Unit (87/25)

Vehicle Type: **911 S (992)**
911 4S (992)
911 GTS (992)
911 4 GTS (992)

Model Year: **As of 2020 up to 2024**

Country/Market: USA (C02)
Canada (C36)
Puerto Rico (C02/C0A)

Equipment: Emissions concept LEV3/TIER3 70 **(M No. 7CE)**
and
7-speed manual transmission **(M No. G1L/G1M)**

Concerns: **DME control unit**

Cause: **The customer complains about uneven engine running during the warm-up phase and the lighting up of the yellow malfunction indicator light in the instrument cluster.**
The following fault memory entry is stored in the fault memory of the DME control unit:

- **P031600** - Misfire when the engine starts (first 1000 crankshaft revolutions) (0090D1)

Action: In the event of a customer complaint, re-programme the DME control unit using the PIWIS Tester.

Information
The minimum programming requirement is the PIWIS Tester software release:**43.600.020** (or higher).

Required tools

Tools:

- **P90999 - PIWIS Tester 4**
- Battery charger with a current rating of **at least 90 A** and a **current and voltage-controlled charge map** for lithium starter batteries, e.g. **VAS 5908 battery charger 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*

Re-programming DME control unit

1 Re-programme DME control unit.

The basic work procedure for control unit programming is described in the Workshop Manual.
⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*

Specific information on control unit programming during this action:

Required PIWIS Tester software release:	**43.600.020** (or higher)
Type of control unit programming:	Control unit programming using the **'Automatic programming'** function of the control unit. **"Motor electronics (DME)"** control unit – **"Coding/programming"** menu – **"Automatic programming"** function.
Programming sequence:	Read and follow the **information and instructions on the PIWIS Tester** during the guided programming sequence. During the programming sequence, the **DME control unit** is re-programmed first, and then the **transmission control unit** is **re-programmed**. Both control units are then **automatically** re-**coded**. **Do not interrupt the programming and coding process.** Once the control units have been programmed and coded, you will be prompted to switch the ignition off and then back on again after a certain waiting time. Backup documentation of the new software releases are then performed.
Programming duration:	Programming takes up to **15 minutes**, depending on equipment.
Data record programmed during this programming:	▪ **DME control unit** Software release: **0001** (or higher) Following control unit programming, the software release can be read out from the respective control unit using the PIWIS Tester in the menu ⇒ 'Extended identifications'.

Porsche part number (software) programmed during this programming:	▪ 911 S/4S (992): **992906020CQ** ▪ 911 GTS/4 GTS (992): **992906022AM** The specifications for the software release and Porsche part number (software) of the programmed record are based on the specified PIWIS Tester test software release. Please note that this may change in a later release.
Procedure in the event of error messages appearing during the programming sequence:	⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*.
Procedure in the event of a termination in the control unit programming:	Repeat control unit programming by restarting programming.

2 Read out and delete all control unit fault memories.

3 Exit the diagnostic application, switch off the ignition and disconnect **P90999 - PIWIS Tester 4** from the vehicle.

4 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
24702542	Re-programming DME control unit	

PCSS encryption:

Location (FES5)	24700	DME control unit
Damage type (SA4)	1134	Programming error