

Various White Messages Regarding Driver Assistance Systems/Fault Memory Entry "C12D5FA" in the ZFAS Control Unit (75/25)

Model Line: **911 (992)**

Model Year: **from 2020**

Equipment: Reversing camera system **(M-No. KA2)**
or
 Real Top View (4-camera system) **(M-No. KA6)**

Concerns: **Control unit for driver assistance systems (ZFAS)**

Information: The customer complains about the failure of various driver assistance systems and corresponding messages (white warning message) in the instrument cluster, for example:

- Assistance systems currently restricted
- Lane Keep Assist currently not available
- Active Lane Keeping currently not available
- Speed limit display not available
- Proactive occupant protection currently restricted
- Warn and Brake Assist restricted
- Driving light control fault
- Emergency stop function currently not available

After an ignition change, all systems are available again and the warning messages no longer occur.

The following fault memory entry is stored in the fault memory of the control unit for driver assistance systems (ZFAS):

- **C12D5FA** - Control unit for driver assistance systems, image processing processor does not react

Reason: If the fault memory entry is **passive**, there is a possibility that electromagnetic incompatibility/influences on the video line may lead to the above-mentioned complaints.

If the fault memory entry is **active**, there is a possibility that the electrical contact of the image processing processor is faulty and may lead to the above-mentioned complaints.

Action: If there is a customer complaint, check whether the fault memory entry "C12D5FA" is stored actively or passively in the control unit for driver assistance systems (ZFAS).

Depending on the test results, either rework the ground connection on the windshield heating for the front sensor system or replace the Driver Assistance Systems (ZFAS) control unit.

The fault memory entry "C12D5FA" is stored **passively** in the control unit for driver assistance systems (ZFAS).

- Rework the ground connection on the windshield heating for the front sensor system.

Continue with: **Rework the ground connection on the windshield heating for the front sensor system**

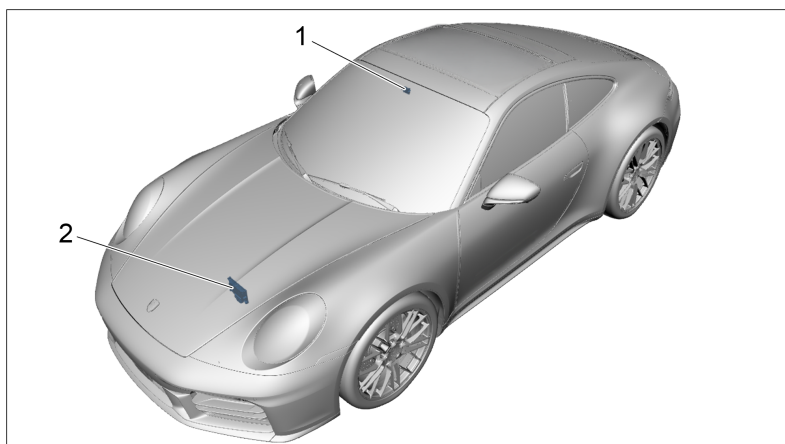
or

The fault memory entry "C12D5FA" is stored **actively** in the control unit for driver assistance systems (ZFAS).

- Replace the control unit for driver assistance systems (ZFAS).

Continue with: **Replace the control unit for driver assistance systems (ZFAS)**

Installation Position:



Graphic template

- 1 Front camera for driver assistance systems
- 2 Control unit for driver assistance systems (ZFAS)

Required parts for reworking the ground connection on the windshield heating for front sensors (passive fault memory entry)

Parts Info:

Part no.	Designation	Quantity
...	> 1_crimp_connector... Crimp connector – Standard (included in cable harness repair set VAS 1978)	1 piece(s)
...	> If_necessary_fleece_adhesive_tape... Fleece adhesive tape – Width approx. 19 mm, e.g. TESA 51616 ID	Quantity as required

Required parts for replacing the control unit for driver assistance systems (ZFAS) (active fault memory entry)

Parts Info:

Part no.	Designation	Quantity
PAB9071XXX*	> 1_driving_assistance_systems_control_unit PAB9071XXX* Driving assistance systems control unit	1 piece(s)



Information

*The variant of the control unit for driver assistance systems (ZFAS) required for the respective vehicle must be determined using the vehicle identification number (VIN) in the Porsche Spare Parts Catalogue (PET2).

Required tools

Tools:

- > [Connect P90999 – Porsche Tester 4th generation](#)
- Battery charger with a current rating of **at least 90 A** and a **current and voltage-controlled charging characteristic** 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. **270689 Charge vehicle electrical system battery**

Additional tools required if the ground connection needs to be reworked on the windshield heater for front sensors:

- Torque wrench, 0.4-2 Nm (0.3-1.5 ftlb.), e.g. > [VAS 6253A – torque wrench, 0.4-2 Nm \(0.3-1.5 ftlb.\)](#)
- > [VAS 631 003 – wire harness repair set.](#)
- > [VAS 1978/3A – Stripping pliers](#)
- > [VAS 1978/1A – Release tool/crimping pliers](#)
- > [VAS 1978/14A – Hot air gun](#)

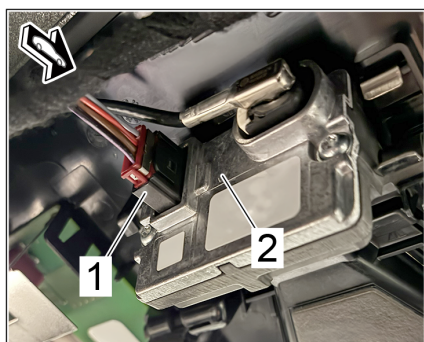
Additional tools required if the driver assistance systems control unit (ZFAS) has to be replaced:

- Torque wrench 2-10 Nm (1.5-7.5 ft-lb.) e.g. > [V.A.G. 1783 – Torque wrench 2-10 Nm \(1.5-7.5 ft-lb.\)](#)

Rework the ground connection on the windshield heating for the front sensor system

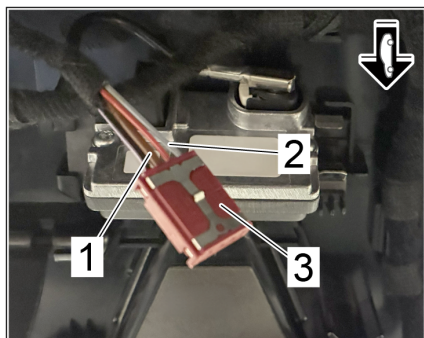
Work Procedure:

- 1 Remove the interior rearview mirror.
682719A1 Remove and install the interior rearview mirror
- 2 Remove the front overhead console.
708319A4 Remove and install front roof console
- 3 Release electric plug connection -1- and disconnect it from the front camera -2-.



Front camera

- 4 Rework the ground connection on windshield heating for the front sensor system.



Bypassing ground loop

- 4.1 Unpin electric line (**brown**) -1- from **chamber 2** of the connector housing -3-.
 - 4.2 Unpin electric line (**grey**) -2- from **chamber 4** of the connector housing -3-.
 - 4.3 Disconnect plug contacts on the electric lines (brown and grey) -1 and 2-.
 - 4.4 Crimp electric lines (brown and grey) -1 and 2- with each other.
Work procedure, see: **9797INA1 Information on electric crimp/splice connections**
 - 5 Install front overhead console.
708319A4 Remove and install front roof console
 - 6 Install the interior rearview mirror.
682719A1 Remove and install the interior rearview mirror
 - 7 Connect and switch on the battery charger.
270689 Charge vehicle electrical system battery
 - 8 > Connect P90999 – Porsche Tester 4th generation, switch on ignition and start the diagnostic application.
 - 9 Read out and delete all control unit fault memories.
 - 10 End the diagnostic application, switch off the ignition and disconnect the > P90999 – Porsche Tester, 4th generation from the vehicle.
 - 11 Switch off and disconnect the battery charger.
270689 Charge vehicle electrical system battery
- End of action.**
It is not necessary to replace the control unit for driver assistance systems (ZFAS).

Replace the control unit for driver assistance systems (ZFAS)

Work Procedure:

- 1 Replace the control unit for driver assistance systems (ZFAS).
910255A1 Replace central control unit for assistance systems

Labor position and PCSS encryption

Labor position:

Rework the ground connection on the windshield heating for the front sensor system
Replace the control unit for driver assistance systems (ZFAS)

PCSS encryption:

Central control unit for assistance systems
occasionally not functioning

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