

Bulletin #: 2206

Part ID: 1908

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982 - Radiator Fans Intermittently Inoperative

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
718	2022	Cayman GTS 4.0 (982140)	N/A	N/A
718	2022	Boxster GTS 4.0 (982340)	N/A	N/A
718	2022	Boxster 25 Years (982370)	N/A	N/A
718	2022	Spyder (982510)	N/A	N/A
718	2022	Cayman GT4 (982810)	N/A	N/A

Revision History

Revision	Release Date	Changes
0	March 7, 2022	Original document

Condition

The customer complains of a check engine light, or a lack of cold Air Conditioning, or possibly both. The workshop finds the following fault codes stored in the DME:

- P2D8900 Radiator fan 1 (left), power supply
- P2D8C00 Radiator fan 2 (right), power supply

The fault codes may be stored simultaneously.

Technical Background

Under certain conditions, the presence of these fault codes is a known software issue that Porsche are actively investigating.

It is possible that the aforementioned fault codes set by rapidly starting the engine upon entering the vehicle (i.e., quick switch from key off → engine on). However, if no electrical faults are found with the radiator fans, the cause of the lack of cold Air Conditioning is still under investigation.



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Service Information

If a check engine light is present or intermittently present, please perform the following steps to determine the root cause:

- 1. Connect the vehicle to a suitable battery charger and complete a VAL.
- 2. Open the VAL in PCSS and verify that no other faults are present in the DME.
- 3. Open the detailed fault information for the above mentioned fault codes.
- Check the three indicated values in Figure 1 below:

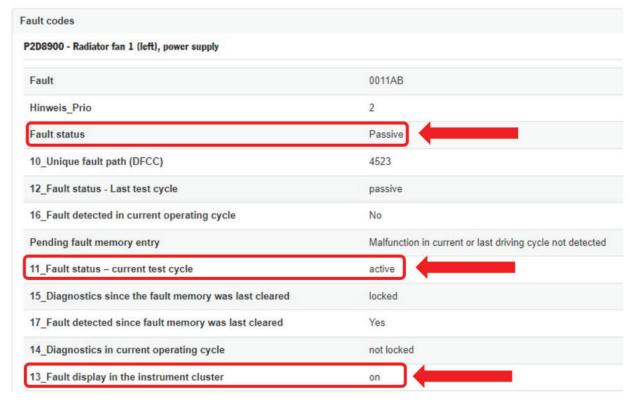


Figure 1 - Detailed Fault Information

- Is Fault Status active or passive?
 - Active: The radiator fan(s) may be faulty. Please skip to Step 6 and verify via checks for electrical faults.
 - Passive: Continue to next check
- Is 11_Fault status current test cycle active or passive?
 - Active: Continue to next check
 - Passive: The radiator fan(s) are not the cause of the check engine light. Please continue with other diagnosis.

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- Is 13_Fault display in the instrument cluster on or off?
 - On: The faults were detected in two <u>consecutive</u> drive cycles and are the cause of the check engine light. This condition is included in the software bug being investigated.
 - Off: The faults were not detected in two <u>consecutive</u> drive cycles, but were detected at least twice. If a check engine light is active in the cluster while this value remains "off", these faults are not the cause of the check engine light. Please continue with other diagnosis.

Additionally, the following steps may be performed to ensure proper operation of the radiator fans and Air Conditioning system:

- 5. Please verify there are no mechanical faults with the radiator fans.
 - Check for dirt, rocks, or other foreign objects that could block the operation of the radiator fans.
 - Operate the radiator fans via the Drive links functions in the PIWIS Tester.
 - Engine electronics (DME) → Drive links checks → Drive links → Radiator fan 1 (left)/Radiator fan 2 (right)
- 6. Please verify there are no electrical faults with the radiator fans.

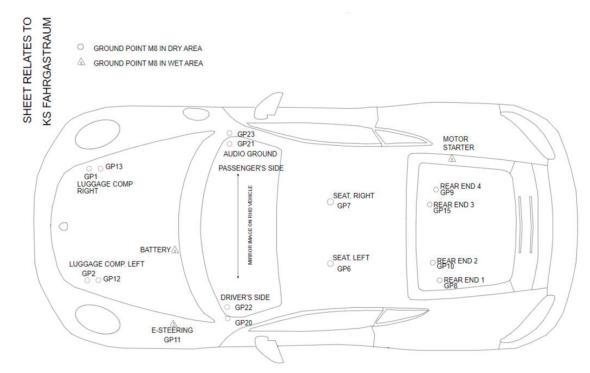


Figure 2 - Ground Point Locations



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- Visually inspect and clean ground point 20 (driver's side lower kick panel area). This is the ground point for terminal 85 at the fan relays.
- Verify proper power and ground supply to the radiator fans.
- Inspect the fuse for the radiator fan relays in the driver's side fuse box (row D, fuse 6).
- Verify proper tension in the PWM signal wire (Pin 3 at fan connectors).
- 7. Please verify the proper amount of refrigerant exists in the A/C system and inspect for leaks.

NOTE: Due to the current semiconductor shortage, please do not replace the radiator fans, the DME, the A/C control unit, or the A/C switch panel unless the parts are faulty.

Warranty

As always, be sure to document the repair completely in PCSS.

For this repair, please code the "cause" as follows:

Cause location: 19080 Electric fan

Cause symptom: 1111 Adjustment fault

Use the following troubleshooting labor operation: 03350053 On board diagnostic (Composite) VAL

Additional labor operations may be claimed **only as needed** for replacing parts or for accessing ground points, fuses, and connectors during diagnosis.

Search Items

Cayman, Boxster, GTS 4.0, radiator, fans, GT4, Spyder, 718, air conditioning, A/C, 25 year edition

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