

Ignition Lock Error B143C29

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
911	As of 2020 up to 2024	992	N/A	N/A
Cayenne	As of 2019 up to 2023	9YA, 9YB	N/A	N/A
Panamera	As of 2017 up to 2023	971	N/A	N/A

Revision History

Revision	Release Date	Changes
0	February 28, 2024	Original document, replaces ATI Group 2 2125.1, dated 01/07/2022.

Condition

The customer states a white warning message appears in the instrument cluster upon starting the engine. The workshop either confirms the warning message in the cluster and/or finds the Rear-end electronics (BCM2) fault entry "B143C29 – Ignition starter switch – signal implausible".

Technical Background

The ignition switch is a four-signal redundant system to ensure proper operation even if one of the signals is corrupted. The signals are diagnosed by the BCM2 through each full cycle (vehicle off to engine running).

If the ignition switch is not fully engaged to start the engine, one of the four signals will not be switched (open line). However, due to the design of the redundant system, the engine will still start. If the diagnostic for this signal continuously sees an open line, the fault will eventually be set in the BCM2.

To verify this issue, please take a VAL and check for BCM2 B143C29 fault entry freeze frame data and compare to the bitcode below.

Freeze Frame data for "B143C29 – Ignition starter switch – signal implausible":
20_Fault occurrence – measured values 101000000000000000000000000000

Service Information

Please advise the customer to fully engage the ignition switch to start the engine each time to ensure the system functions as designed and a real fault can be diagnosed. The image below shows a partial switch engagement, which will lead to this fault after enough occurrences. Since this is a redundant system, the engine will start and there will be no warning that it is being misused until the diagnostics eventually sets the fault after the threshold is reached.



Figure 1

At the following link you will find a video recording of a vehicle subject to a complaint:

<https://ppn.porsche.com/portal/docs/DOC-500167>

Note:

The process to start the engine was already repeated 4 times, before the video was recorded. Overall the engine has been started 5 times. The warning message is showing after the 6th attempt.

Warranty

As there is no functional defect, the work steps as described in this ATI are excluded from Warranty and Goodwill.

Search Items

Ignition lock error, starter, ignition switch, rotor, dummy, key

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