

Technical Information

Service

246/24 ENU 1001

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Combustion Misfiring / Irregular Engine Running during Catalytic Converter Heating Phase and Yellow Malfunction Indicator Light (MIL) Active: Clean the Injector Valves (246/24)

Vehicle Type: **Panamera 4 E-Hybrid (971) / Panamera 4S E-Hybrid (971)**

Model Year: **As of 2021 up to 2024**

Equipment: Hybrid drive system PHEV (M-No. 0K3)

Concerns: **Combustion engine**

Cause: **Customers complain about irregular engine running during the catalytic converter heating phase and the yellow malfunction indicator light (MIL) on the instrument cluster lighting up.**
Combustion misfiring can occur during the catalytic converter heating phase due to coking of the fuel injectors.



Information

The catalytic converter is in the heating phase at:

- Cold start of the combustion engine
- Restarting the combustion engine after a pure electric drive

Action: Limit fault pattern and, if necessary, clean the fuel injectors by adding the fuel additive "Keropur".

Required tools and materials

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. **VAS5908 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'*

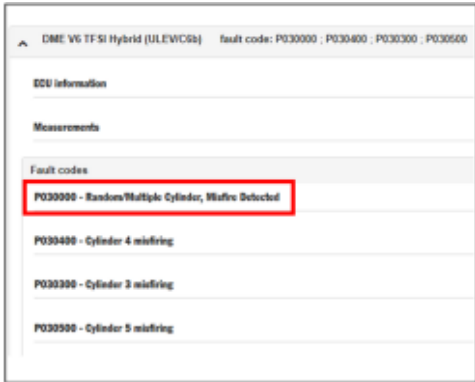
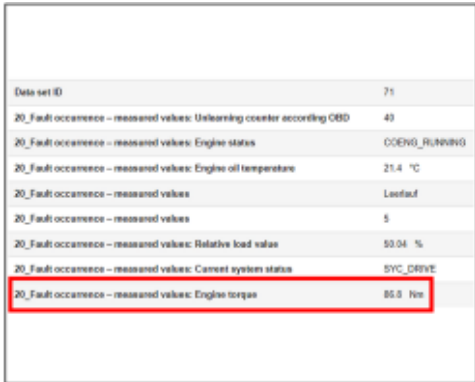
Material: **Required materials as needed** (usually already available in the Porsche Center)

Part No.	Designation	Quantity
00004320902	⇒ Fuel additive "Keropur" (100 ml/ 3.38 fl oz container)	2 cans

Limit fault pattern and clean fuel injectors if necessary

Work Procedure: 1 Connect and switch on the battery charger.
⇒ *Workshop Manual '270689 Charge vehicle electrical system battery'*

- 2 Connect **P90999 - PIWIS Tester 4** to the vehicle. Switch on ignition. Start the diagnostic application.
- 3 Create and evaluate Vehicle Analysis Log (VAL).

Assessment	Action
<ul style="list-style-type: none"> Fault "P030000 - Combustion misfiring detected" is present in the fault memory of the DME control unit ⇒ <i>DME control unit fault memory entry</i>  <p><i>DME control unit fault memory entry</i></p> <ul style="list-style-type: none"> In addition, the measured values show the following engine torque when the fault occurs: between 80 - 90 Nm (59 - 66.4 ftlb.) ⇒ <i>Engine torque measured values</i>  <p><i>Engine torque measured values</i></p>	<p>The fuel injectors are contaminated. Go to ⇒ 4.</p>
<p>Fault "P030000 - combustion misfiring detected" is not present in the fault memory of the DME control unit.</p>	<p>The irregular engine running cannot be solved by this SY. Continue with troubleshooting.</p>

- 4 Pour in two cans of "Keropur" to the fuel tank.
⇒ Fuel additive "Keropur".



Information

The following prerequisites must be met before carrying out the action:

- The cause for the ignition failures was narrowed down to the fuel injectors (review of the torque requirement in the VAL)
- The vehicle fuel tank is at least 3/4 full with fuel



Fuel additive "Keropur"



Information

The one-time use of Keropur ensures complete cleaning of the injectors.

Regular use can cause damage to the fuel system. Frequent engine cold starts, low-engine load driving and short engine running times, among other things can proliferate coking on the injectors.

If another complaint about the combustion misfiring is made and the injectors are not coked up, proceed as given in the guided troubleshooting.

- 5 Delete existing faults in the **fault memory** of the DME control unit.
- 6 End the diagnostic application. Switch off ignition. Disconnect **P90999 - PIWIS Tester 4** from the vehicle.
- 7 Switch off and disconnect the battery charger.
⇒ Workshop Manual '270689 Charge vehicle electrical system battery'
- 8 Hand the vehicle over to the customer.



Information

The fuel injectors are cleaned separately. No special driving manoeuvres or driving profiles are required.

PCSS encryption

Labor position:

APOS	Labor operation	I No.
24403040	Clean the injector valves	

PCSS encryption:

Location (FES5)	1001H	Hybrid engine
Damage type (SA4)	1117	Misfiring, jerking

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