

 Preview Solution CBR-2520-2

Volvo Chassis - Exhaust Temperature Sensor Rationality Faults and MIL Illumination

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Valid For

Volvo Chassis - VN (4), VNL
Model Year - 2025 and newer

Complaint

Vehicle arrives with MIL illuminated and regeneration disabled. Diagnostic Trouble Codes (DTCs) **P2031-64**, **P242A-64**, **P0544-64**, and **P246E-64** (exhaust temperature sensor rationality faults) are present. Upon inspection, **VMCU DTC U3017-51** may also be stored.

Cause

The **VMCU U3017-51** fault indicates that the **real-time clock is not set**. When the clock is corrupted or unset, the engine control system may incorrectly evaluate temperature conditions, triggering cold-engine diagnostics to run during warm or hot engine operation. This results in the exhaust temperature sensor rationality faults listed above.

Correction / Recommendation:

1. **Verify** presence of **VMCU fault U3017-51**.
2. **Program the real-time clock** using operation code **1700-22-03-02 (System Date and Time)** found in **PTT**.
3. **Clear all fault codes**.
4. **Release the vehicle**.
5. If the concern persists after completing the above steps, **create an E-Service case** for further assistance.

Related links and attachments

No links or attachments available



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1				
2	 On	 = 0 rpm	 On	

1700-22-03-02 System Date and Time

Simulation

Information >> Execution

Automatically checked conditions

- 1 Parking brake applied
- 2 Ignition key in ON position; Engine not running

Continue >

Cancel



1700-22-03-02 System Date and Time

Simulation

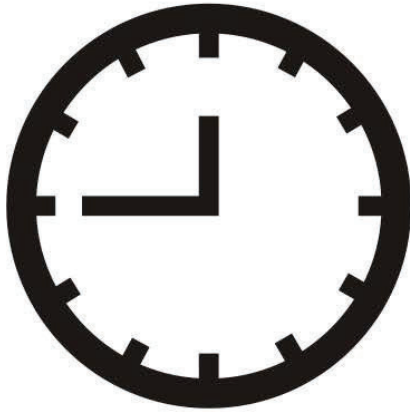
Information >> Execution

Purpose

 **Note:** This operation is only applicable if no tachograph is installed
This operation is used to program control unit date and time

Description

Control unit date and time is used for various functions such as the DTC time stamping
The process includes programming control unit time using local computer date and time



Continue >

Cancel



1700-22-03-02 System Date and Time

 Simulation

Information >> Execution

Action

 **Note:** Local computer date and time must be correct and set to the local time zone before programming

After programming a new control unit date and time, verify that display date and time is correct. If it is not correct, program the display date and time from the instrument cluster.


Evaluation

- Does the new values appear as current date and time?

Test result

Select one of the following alternatives

- OK
 Not OK

 **Local computer date and time**

Tue Oct 28 14:49:58 EDT 2025

 **Control unit date and time**

Tue Oct 28 14:49:52 EDT 2025