Preview Solution CBR-2465-3

Proactive Engine Restart (Remote Engine Start System) - VN (4) - PR (4)

Published 4 September 2025

Valid For

Volvo Chassis- VN (4)
Mack Chassis - PR (4)

1. OVERVIEW

1. This CBR pertains to two issues that may arise with the Proactive Engine Restart (Remote Engine Start System)
    1. **Key Fob Activation Issue:**
        - **NOTE: ONLY APPLICABLE TO SALES PACKAGE H9AC1X**
        - Remotely starting the engine via the AUX switch on the key fob DOES NOT work
        - Lock, unlock, and turning on parking heater via key fob Does work

1. **Flexible Switch Activation Issue:**
    - The Auto Start/Stop flexible switch (pictured below) does not activate the system – no alert is displayed that the system has been activated.

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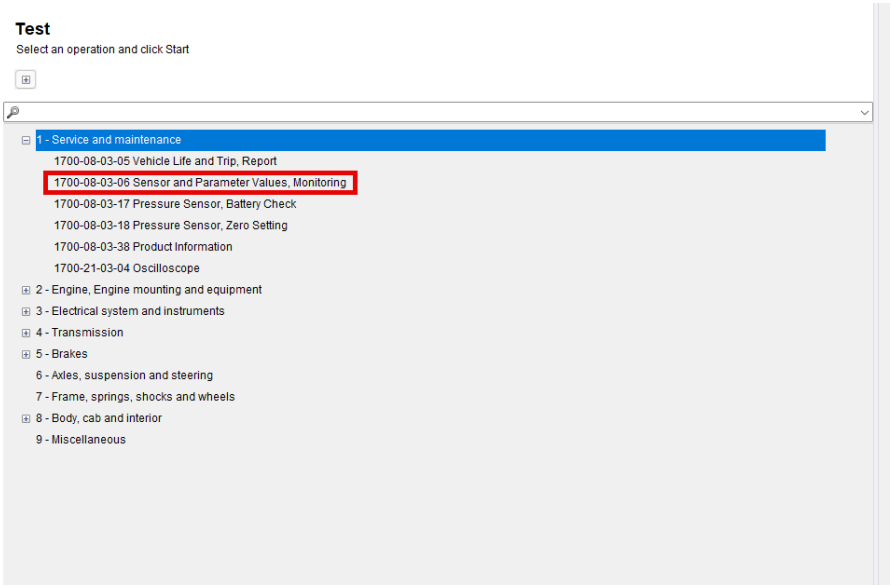
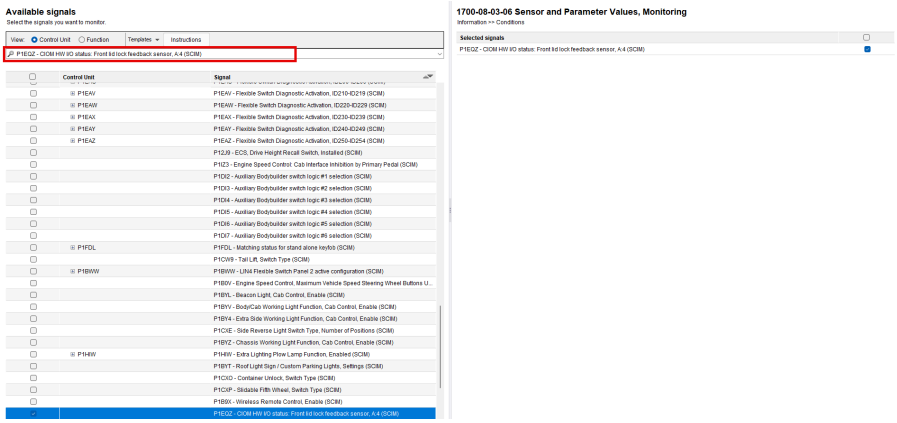
1. PROCESS

- To troubleshoot these issues, verify that the ‘closed hood’ pre-condition for Proactive Engine Restart is met.

1. To verify correct hood sensor function, use **Sensor and Parameter Values, Monitoring** test in **Premium Tech Tool (PTT).**
2. Connect the truck to PTT and navigate to the Test tab.
3. Select operation **1700-08-03-06 Sensor and Parameter Values, Monitoring.**



4. Once operation has loaded, enter **P1EQZ** in the search bar. Once located, select the parameter and press continue. **Note: Tech Tool needs to be up to date with the latest software.**



5. You will need to verify 3 voltages to ensure the hood status is being reported properly.
   - Hood fully closed/shut

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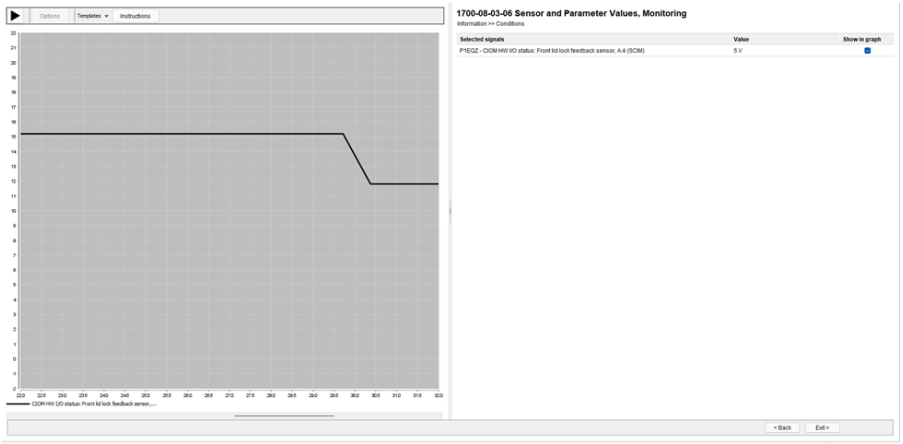
- One latch open/released
- Both latches open/released

You can pull the hood release lever very slowly to unlock the latches one-by-one for this test.
Observe the voltage with the hood completely shut, with one latch open, and with both latches open. There should be a significant voltage drop between each of the three hood states above.
Note: The voltages depend heavily on the battery status and state of charge, so voltages may vary significantly from one truck to another.

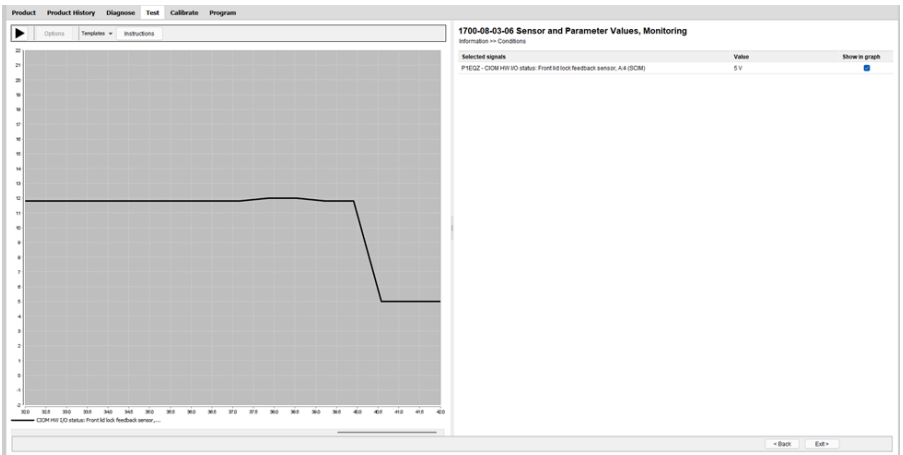
Example voltages (***Real voltages may vary***):

- Hood fully closed: 17.4V
- One latch open: 13.6V
- Both latches open: 5.6V

Latches fully close and opening only 1 latch from example above. Note the voltage drop:



Upon opening the 2nd latch (note the further voltage drop):



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These voltage drops as the hood is unlatched indicate the latches are reporting their states to the truck and Tech Tool properly and

the hood sensors are functional.

1. **TESTING**

    1. Once the adjustment is complete, verify that the Proactive Engine Restart is working correctly – ensure that the following preconditions are met:

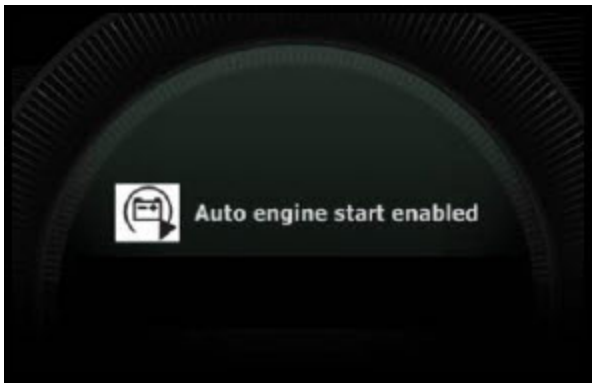
        1. **Test Proactive Engine Restart With Key Fob**

            - Driver and Passenger doors must be closed
            - Hood must be closed
            - Fuel level must be above 12.5%
            - Park brake must be applied
            - Gear lever must be in Neutral position
            - Vehicle mode must be in Living or Parked
            - Auto Start/Stop flexible switch is NOT ACTIVATED (flexible switch on the left side of the dash is not lit up)
            - Once ALL of the above preconditions are met, press and hold AUX button on the key fob for 3 seconds to start the engine.

        2. **Test Proactive Engine Restart with Flexible Switch**

            - For vehicles with key and cylinder: insert the key, ensuring that it is in the OFF or Accessory Position
            - For vehicles with a key fob and push start: the key fob must be located inside the cab and truck is off.
            - Driver and passenger doors must be closed.
            - Hood must be closed.
            - Fuel level must be above 12.5%
            - Park brake must be applied
            - Gear Lever must be in Neutral position
            - Accelerator pedal must be released

- Once ALL of the above preconditions are met, press the Proactive Engine Start flexible switch to enable the function. A message on the instrument cluster display (picture right) will verify successful activation.



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