



93-21-02 - Battery Cooling Pump DTCs P0CFF00 and/or P2B2800

Release date: 10/26/2021

Condition

| Applicable Vehicles | | | | | |
|---------------------|------|-----------|-------------|----------------|--------------|
| Model(s) | Year | Eng. Code | Trans. Code | VIN Range From | VIN Range To |
| ID.4 | 2021 | All | All | All | All |

| Revision Table | | | |
|-----------------|----------------|----------------|-----------------------|
| Instance Number | Published Date | Version Number | Reason For Update |
| 2064967/1 | 10/26/2021 | 93-21-02 | Original publication. |

The customer reports the error message, "Electrical system not working correctly. Please service vehicle." and yellow error malfunction indicator symbol have appeared.

One or both of the diagnostic trouble codes (DTCs) listed below are found to be stored.

| Address | DTC | Description | Status |
|---------|---------|---|--------------------|
| 008C | P0CFF00 | Hybrid/EV Battery Pack Coolant Pump Stuck | Static or Sporadic |
| 008C | P2B2800 | Hybrid/EV Battery Pack Coolant Pump Performance | Static or Sporadic |

Technical Background

The High-Voltage Battery Coolant Pump -**V590**- may not operate when the **0001 – Fill/bleed cooling system** is performed using Guided Fault Finding. The frequency count of the DTCs listed may increase, without running the pump. Normally, during this procedure both the High-Voltage Battery Coolant Pump -**V590**- and Low Temperature Circuit Coolant Pump -**V468**- should run, in order to bleed air from the entire cooling system of the vehicle.

Production Solution

Not applicable.



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Service

When the above DTCs are found to be stored, the GFF Test Plan **0001 – Fill/bleed cooling system** should be performed using the steps below, to ensure no air is trapped in the cooling system.

**Note:**

The steps below are applicable only when the cooling system is already full. If the cooling system has been drained of coolant, then it must be filled according to the repair manual. See repair manual: Cooling System, Filling; Rep. Gr. 19.

**Tip:**

The procedure **0001 – Fill/bleed cooling system** requires SFD access (user login at the start of Guided Fault Finding is required). This is referred to as VDP (vehicle diagnostic protection) within the test plan. After SFD is activated, the DTC B184C00 “Activation active” will be stored. The DTC is only for information. It will become sporadic automatically after timeout of the activation period.

Step 1:

- Select the “Test Plan” tab in Guided Fault Finding
- Click the “Select self-test” button
- Locate **0001 – Fill/bleed cooling system** and attach to the test plan
- Locate **008C – Output diagnostics** and attach to the test plan

Step 2:

- Verify the coolant level in the expansion tank is correct
- Connect the cooling system tester VAG1274B to the coolant expansion tank
- Create a pressure of 1.0 bar using the hand pump on the cooling system tester

Step 3:

- Run the test **0001 – Fill/bleed cooling system**
- Perform the procedure according to on-screen instructions
- If the test cannot be completed (i.e., Status: Routine cancelled, Result: No results available) then proceed to **step 4**
- If the test ends successfully (i.e., Status: Last Routine was ended successfully, Result: Correct result) then proceed to **step 5**



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Step 4:

- Run the test **008C – Output diagnostics**
- Make selection to perform actuator diagnostics on the High-Voltage Battery Coolant Pump **-V590-**
- The ignition must be switched on in order for the pump to operate
- Allow the High-Voltage Battery Coolant Pump **-V590-** to run for up to 60 seconds
- Proceed to **step 5**

Step 5:

- Run the test **0001 – Fill/bleed cooling system** a second time
- Perform the procedure according to on-screen instructions
- If the test cannot be completed (i.e., Status: Routine cancelled and Result: No results available) then proceed to **step 6**
- If the test ends successfully (i.e., Status: Last Routine was ended successfully and Result: Correct result) then proceed to **step 7**

Step 6:

- Remove the cooling system tester VAG1274B from the coolant expansion tank
- Verify the coolant level in the expansion tank is correct
- If the filling and bleeding procedure was unsuccessful after following the steps above, then continue diagnosis of the High-Voltage Battery Coolant Pump **-V590-**
- Further diagnosis is outside the scope of this technical bulletin

Step 7:

- Remove the cooling system tester VAG1274B from the coolant expansion tank
- Verify the coolant level in the expansion tank is correct
- Erase the DTCs and retest
- If the DTCs do not return, the procedure **0001 – Fill/bleed cooling system** was successful



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Warranty

Information only.

Required Parts and Tools

No Special Parts required.

| Tool Description | Tool No: |
|--------------------------------------|--|
| Midtronics Battery Tester/Maintainer | GRX3000VAS or MTRMSP0702 |
| VAS Diagnostic Tool | VAS 6150/X & VAS 6160/X with ODIS Service with current online updates |
| Cooling System Tester | VAG1274B |

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.