Condition

Applicable Vehicles						
Model(s)	**Year**	**Eng. Code**	**Trans. Code**	**VIN Range From**	**VIN Range To**	**PR No.**
ID.4	2021 - 2023	All	All	All	All	LX0

Revision Table			
Instance Number	**Published Date**	**Version Number**	**Reason For Update**
2073298/2	4/16/2025	93-24-01	Addition of history check and a **-J840-** reset procedure, and updated warranty table.
2073298/1	3/26/2024	93-24-01	Original publication.

Customer Concern:

- Electrical system error message (yellow) with the following DTC and at least one of the following symptom codes stored in the Battery Regulation Control Module ***-J840-*** (diagnostic address 008C):
- P0BBD00: Hybrid Battery Pack Voltage Variation Exceeded Limit
  - Symptom: 42345
  - Symptom: 42358
  - Symptom: 42365
  - Symptom: 42370
  - Symptom: 42126
  - Symptom: 42118
  - Symptom: 42136
  - Symptom: 42011
  - Symptom: 42017
  - Symptom: 42024
  - Symptom: 42030
  - Symptom: 42038
- A complaint of reduced or dropping range may also be present.

NOTICE

If the DTC P0BBD00 presents with a different symptom code than those listed above, then this technical bulletin does not apply!

NOTICE

If a vehicle presents a range complaint without DTC P0BBD00 stored in the Battery Regulation Control Module *-J840-* (diagnostic address 008C), then this bulletin does not apply. For concerns relating to the degradation of the total capacity of the high-voltage battery due to aging, refer to Technical Service Bulletin 2071535. For other concerns related to range diagnosis, refer to Technical Service Bulletin 2071494.

Technical Background

In some high-voltage batteries there have been cells that demonstrate an increased self-discharge due to a production fault. An increased self-discharge in individual battery cells can lead to a reduction in overall battery capacity, and therefore a reduction of the range of the vehicle.

In the case of a cell module replacement, certain steps must be carried out in order to reset the data in the Battery Regulation Control Module -*J840*- (diagnostic address 008C).

Production Solution

Improvements made to battery production process CW46/24.

Service

CAUTION

The warranty information in this bulletin only pertains to the additional steps required for diagnosis of DTC P0BBD00. If a cell module replacement is necessary, the labor operations, required parts, and special tools will vary by model and are not accounted for in this bulletin! Please refer to the repair manual for all additional requirements.

NOTICE

This procedure applies to vehicles with a Battery Regulation Control Module -*J840*- (diagnostic address 008C) with software version 1041. If the -J840- software is at a lower level than 1041, ensure all applicable campaigns are completed to bring the -*J840*- up to software version 1041.

NOTICE

This procedure includes a reset of the data in the Battery Regulation Control Module -*J840*- (diagnostic address 008C). This will prevent the "check cell equalization" test plan (performed in campaign 93P7) from incorrectly identifying cell modules as defective that have already been replaced.

1. Complete the test plan populated in GFF for DTC P0BBD00.
   - Note which cell module(s) are being identified as defective through the test plan.
2. Check the vehicle history to determine whether the identified cell module(s) have already been replaced within the last 30 days and are now being identified as defective again with DTC P0BBD00 and the same symptom code.
   a. If the identified cell module(s) have been replaced within the last 30 days, proceed with step 3 to perform a terminal 30 reset.
   b. Otherwise, if the identified cell module(s) have not been replaced within the last 30 days, then skip to step 4 below.
3. ONLY if required due to step 2.a above:
   a. Perform a diagnostic de-energization of the HV system using ODIS.
   b. Ensure the ignition is switched ON.
   c. Pull fuse SC28 briefly.
   d. Reinstall fuse SC28.
   e. Re-energize the HV system using ODIS.
   f. Erase all DTCs.
   g. If the fault P0BBD00 does not return, then no further diagnosis or work is necessary, and the vehicle can be released.
   h. If the fault P0BBD00 returns, then proceed with step 4 below.
4. ONLY if required due to step 2.b or step 3.h above:
   a. First, replace any cell module(s) as directed by the previous GFF test plan's results, and in accordance with the instructions outlined in the repair manual. Proceed with the following additional steps only after the cell module replacements are complete.
   b. Perform GFF > Special Functions > software configuration > via action code > 8CHVHDM1041
   c. Perform GFF > Test plan > Select self test > 0019 – Establish bus sleep mode
   d. Perform GFF > Special Functions > software configuration > via diagnostic address > 008C
   e. Perform GFF > Test Plan > Select self test > 0025 – VKMS adaptation

Warranty

CAUTION

The warranty information in this bulletin only pertains to the additional steps required for diagnosis of DTC P0BBD00. If a cell module replacement is necessary, the labor operations, required parts, and special tools will vary by model and are not accounted for in this bulletin! Please refer to the repair manual for all additional requirements.

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual [1]					
Model(s)	**Year(s)**	**Eng. Code(s)**	**Trans. Code(s)**	**VIN Range From**	**VIN Range To**
ID.4	2021 - 2023	All	All	All	All

SAGA Coding			
Claim Type:	**Use applicable Claim Type [1]**		
Service Number:	**Damage Code**	**HST**	**Damage Location (Depends on Service No.)**
S435	0055	--	--

Parts Manufacturer	ID.4	WWO [2]
Labor Operation [3] : GFF/Guided functions (including Battery charge)	01 50 00 10 = See Elsa for latest time units	
Labor Operation [3] : Check vehicle history	06 89 01 99 = 10 TU	
Labor Operation [3] : Setting-up time as required (Reading time)	06 92 00 99 = 15 TU	
Causal Part (if no cell module is replaced):	01500060	
Causal Part (if a cell module is replaced):	0Z1915599J	

Diagnostic Time [4]		
GFF Time expenditure	01500060 = Actual GFF print out	YES
Road Test	01210004 = see Elsa for latest time units	YES
Technical Diagnosis	01320000 = 00 TU max.	NO

Claim Comment: Input “As per Technical Bulletin 2073298” in comment section of Warranty Claim.

[1] Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only.

[2] Code per warranty vendor code policy.

[3] Labor Time Units (TUs) are subject to change with ELSA updates.

[4] Documentation required per Warranty Policies and Procedures Manual.

Required Parts and Tools

CAUTION

The warranty information in this bulletin only pertains to the additional steps required for diagnosis of DTC P0BBD00. If a cell module replacement is necessary, the labor operations, required parts, and special tools will vary by model and are not accounted for in this bulletin! Please refer to the repair manual for all additional requirements.

Tool Description:	Tool No:
VAS Diagnostic Tool	VAS 6150/X & VAS 6160/X with ODIS Service and current online updates
VAS Battery Tester / Charger	VAS 5908

Additional Information