



GROUP

MODEL

ELE

2023MY
Sportage Plug-In
Hybrid (NQ5 PHEV)

NUMBER

DATE

416

June 2026

TECHNICAL SERVICE BULLETIN

SUBJECT:

ON-BOARD CHARGER INSPECTION AND REPLACEMENT (SA644)

This bulletin provides information related to charging system diagnosis and repair on certain Sportage (NQ5 PHEV) vehicles produced from December 13, 2022 through May 30, 2023. The affected vehicles may experience interrupted or inoperative high-voltage battery charging due to an on-board charger (OBC) internal malfunction. As a result, charging of the high-voltage battery may be interrupted or unavailable, with several diagnostic trouble codes (DTCs) stored related to the OBC unit. If this occurs, the vehicle can still be driven by the internal combustion engine. Follow the procedure outlined in this publication to diagnose the OBC system and, if necessary, replace the OBC assembly on the applicable vehicle. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.

DTC Description:

P0D3A: Battery Charger Input Current Sensor Circuit Low.

P1E0C: Input Relay Stuck Closed Check

P1E01: Voltage Sensor Reliability and Initial Offset Value Check

P0D5C: Battery Charger Hybrid/EV Battery Output Power Performance

U019B: Lost Communication with Battery Control Module

U1310: Lost Communication with On-Board Charger

NOTICE

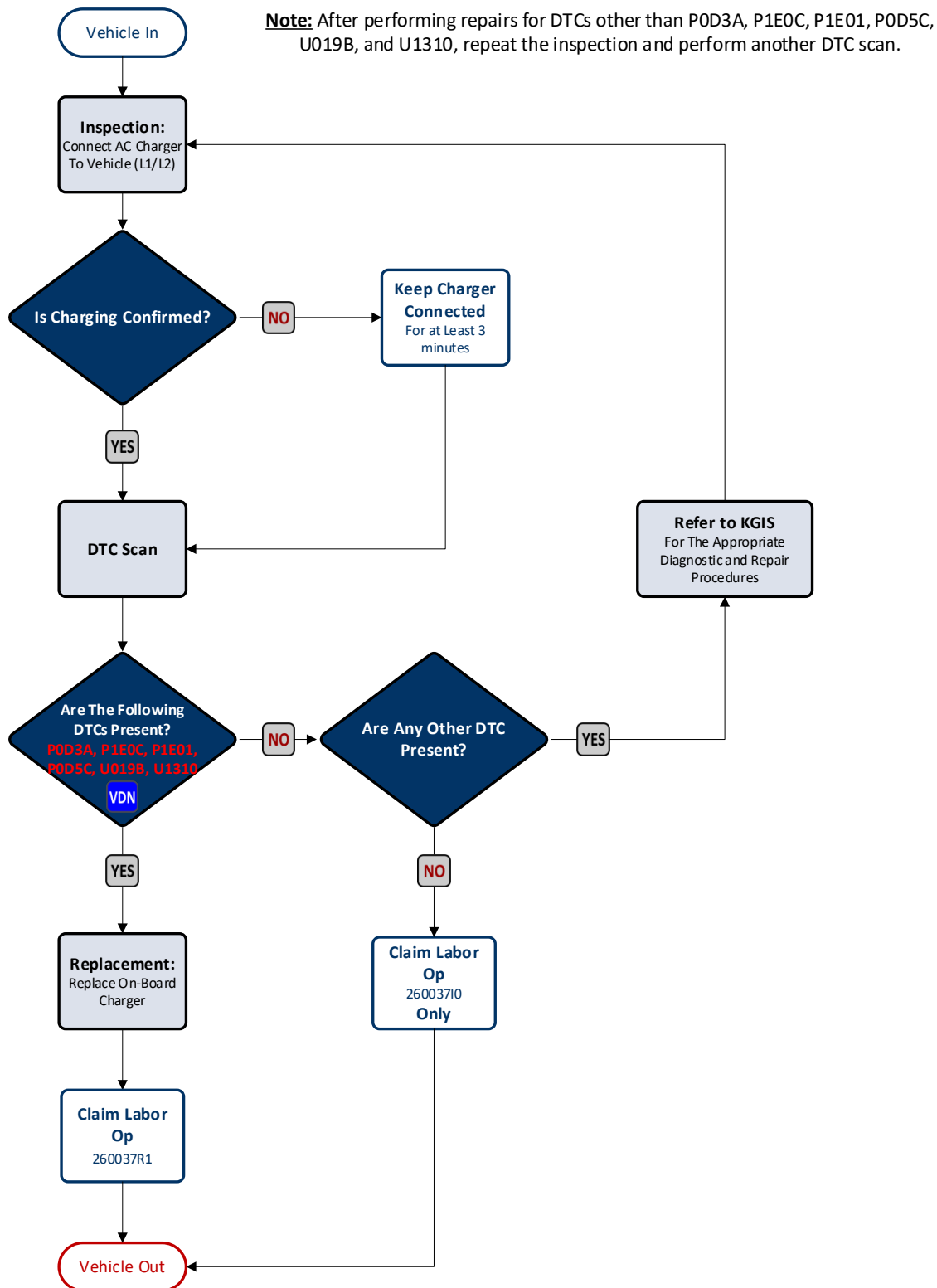
A Service Action is a repair program without customer notification that is performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.

Repair status for a VIN is provided on KDealer+ (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on KDealer+ (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected vehicles.

This issue number is SA644.

A printed copy is for reference only; publication information can be updated at any time. Always refer to KGIS for the latest information. After logging in kdealer.com, the newest technical publications are listed in 'Service Releases' and has the latest service information that has been released.

Flowchart:



Note: A Vehicle Diagnosis Number (VDN) must be created for DTC's prior to ordering parts and performing necessary procedure(s), as outlined in this TSB. If a VDN is not created, Parts Ordering and Warranty claim submission issues WILL occur. Any claims for replacement parts are subject to Warranty review and chargeback.

SUBJECT:

ON-BOARD CHARGER INSPECTION AND REPLACEMENT (SA644)**Inspection Procedure:**

1. Connect the vehicle to a charger for at least 3 minutes and verify that the charging current value is displayed by the ICCB.
 - If charging current is **IS** confirmed (**OK**), then proceed to step 2.
 - If charging current is **NOT** confirmed (**NG**), then proceed to the **Replacement Procedure** on page 4



2. Using the KDS check for DTCs.
 - If there are **NO** DTCs present (**OK**), then **claim Labor Op Code 26003710 (SA644) OBC DTC Inspection.**
 - If **ANY** of the following DTCs are present (**NG**), then proceed to the Replacement Procedure on page 4.

NOTICE

If DTCs other than those specified are detected, refer to KGIS for the appropriate diagnostic and repair procedures.

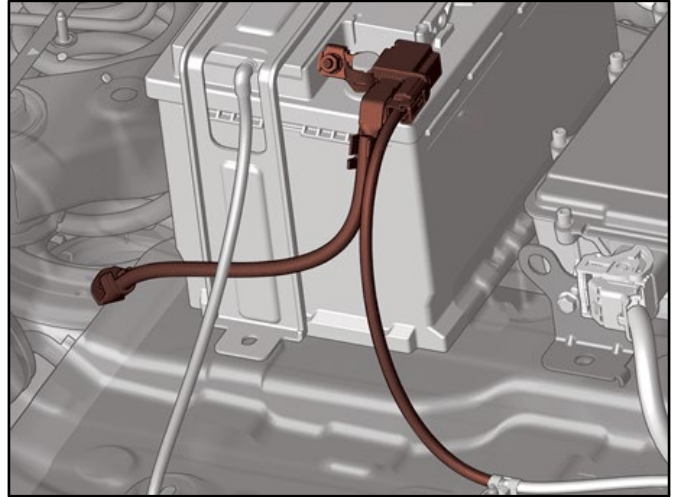
DTCs	Description
POD3A	Battery Charger Input Current Sensor Circuit Low.
P1E0C	Input Relay Stuck Closed Check
P1E01	Voltage Sensor Reliability and Initial Offset Value Check
POD5C	Battery Charger Hybrid/EV Battery Output Power Performance
U019B	Lost Communication with Battery Control Module
U1310	Lost Communication with On-Board Charger

Note: After performing repairs for DTCs other than POD3A, P1E0C, P1E01, POD5C, U019B, and U1310, repeat the inspection and perform another DTC scan.

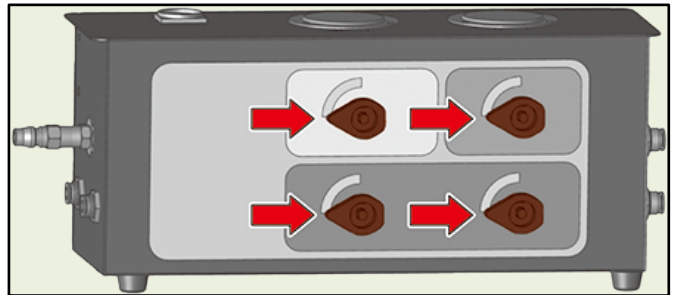


Replacement Procedure:

1. Perform the High Voltage Shut-off Procedure by referring to "Hybrid control system → High Voltage Shut-Off Procedures" in the applicable Shop Manual on KGIS.



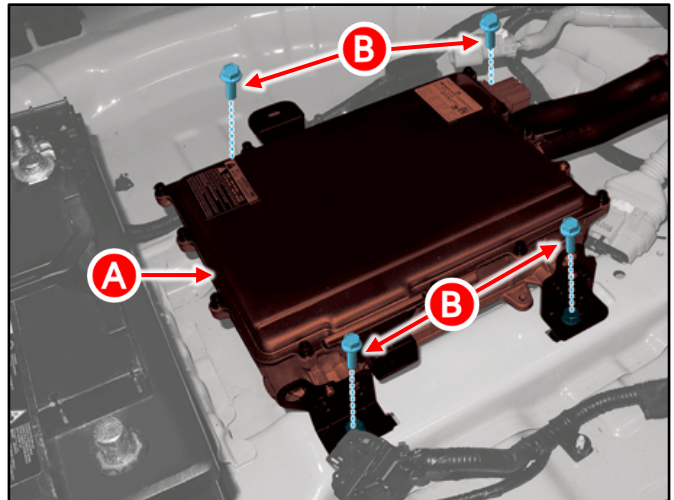
2. Drain the coolant by referring to "Hybrid control system → High Voltage Battery System → Drain" in the applicable Shop Manual on KGIS.



3. Replace the OBC (A) by referring to "Hybrid control system → High Voltage Charging System → ON - Board Charger → Removal and Installation" in the applicable Shop Manual on KGIS.



Tightening torque for nut/bolt (B):
14.5 - 21.7 lb.ft (19.6 - 29.4 N.m)



4. Reinstall all removed parts in the reverse order of removal
5. Confirm normal operation.

SUBJECT:

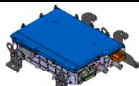
ON-BOARD CHARGER INSPECTION AND REPLACEMENT (SA644)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Sportage Plug-In Hybrid (NQ5 PHEV)	December 13, 2022 to May 30, 2023

REQUIRED TOOL:

Tool Name	Part Number	Figure	Location	Comments
Kia Diagnostic System (KDS)	N/A		SHOP	KDS + VCI
VCI-II Connector	N/A			Connect Directly to KDS Using Included Ethernet Cable
Coolant Injection/Drain Equipment	OK253 J2300		O/H 2	N/A

REQUIRED PART:

Part Name	Part Number	Figure	Qty.
On-Board Charger Assembly	36400 3DAN5QQK		1
Coolant/Antifreeze	UM020 CH263		2 gallons

Note: The replacement part numbers will require a VIN entry for parts ordering. DO NOT order these parts for stocking purposes, related to this Service Action. Supply is very limited. Until supply stabilizes, please confirm part availability before scheduling customers. Please be sure to expedite warranty claim filing.

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
V	36400 3DAN5	0	(SA644) OBC DTC Inspection	260037I0	0.4 M/H	N/A	0
		0	(SA644) OBC DTC Inspection + OBC Replacement (VDN Required)	260037R1	1.6 M/H	36400 3DAN5QQK	1
						UM020 CH263	2

Note: When substitute transportation is provided, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense. Please make sure to submit any substitute transportation claim at the time of the warranty expense.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **SA644** when accessing the KDealer+ system.

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