



GROUP	MODEL
Voluntary Service Campaign	2019-2022MY Niro EV (DE EV)
NUMBER	DATE
SC321	September 2024

VOLUNTARY SERVICE CAMPAIGN

IEB INSPECTION AND WATER PROOFING OR IEB REPLACEMENT (SC321)

SUBJECT:

This bulletin provides the procedure to inspect the Integrated Electronic Booster (IEB) on certain 2019-2022MY Niro EV (DE EV) vehicles produced from December 5, 2018 through April 12, 2022, that were originally sold or are currently registered in one of the 28 states where heavy amounts of road salt are used. Over time, saltwater inflow into the Integrated IEB at the IEB fastening bolt hole may cause corrosion and lead to an inoperable IEB motor. Should this occur, the vehicle may experience illumination of the Anti-lock Brake System (ABS), Forward Collision-Avoidance Assist (FCA) warning lights, and/or a firmer brake pedal feel. The brakes remain operational. Kia is conducting this service campaign to improve corrosion resistance of the IEB assembly. Follow the procedure outlined in this publication to inspect the IEB for the related DTC. If the related DTC (C240527) is stored, replace the IEB with a new one. If the DTC is not stored, apply silicone to the IEB fastening bolt hole and surrounding area. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.

DTC Description:

C240527 - Motor Position Sensor

The 28 states where heavy amounts of road salt are used are: AK, CT, DC, DE, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, ND, NE, NH, NJ, NY, OH, PA, RI, SD, UT, VT, WI and WV.

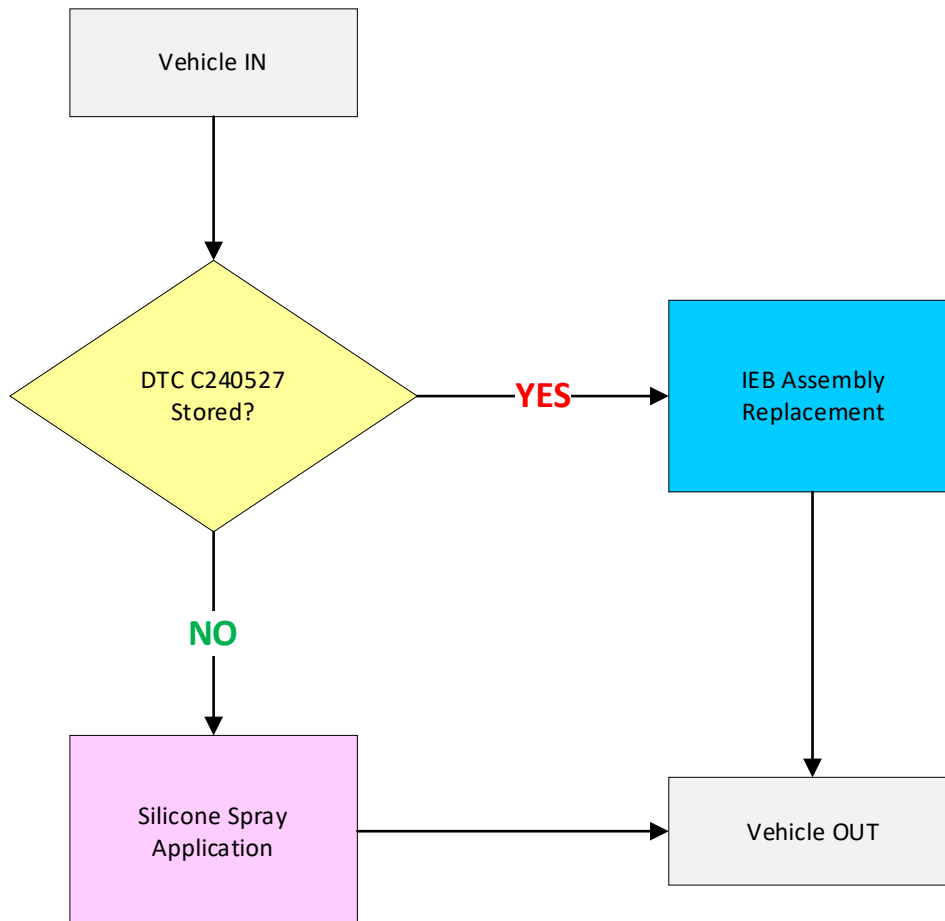
NOTICE

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.

Flowchart:

Follow the flowchart below to inspect and repair the vehicle. Using KDS, scan for the related DTC C240527.

A [Vehicle Diagnosis Number \(VDN\)](#) must be created if DTC C240527 is stored. **If a VDN is not created, Parts Ordering and Warranty claim submission issues WILL occur.**



SUBJECT:

IEB INSPECTION & WATER PROOFING/REPLACEMENT (SC321)**Inspection Procedure:**

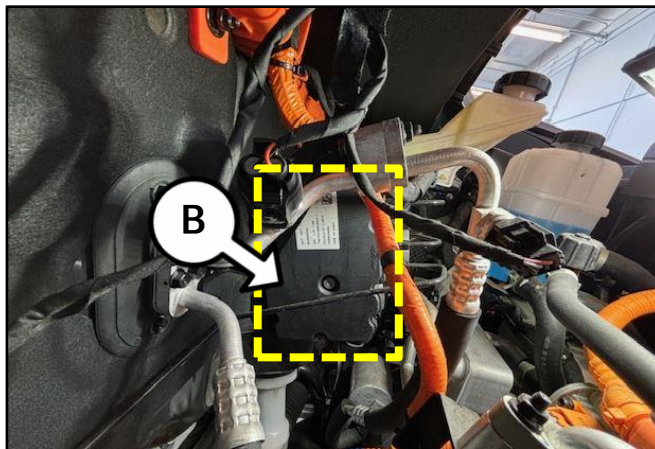
- Using KDS, scan the vehicle and verify if DTC C240527 is stored:
 - If DTC C240527 IS stored (NG), skip to the 'Replacement Procedure' for IEB (Integrated Electronic Booster) on page 5.
 - If DTC C240527 is NOT stored (OK), proceed to the 'Repair Procedure' for silicone coating below.

Repair Procedure: (Silicone Coating)

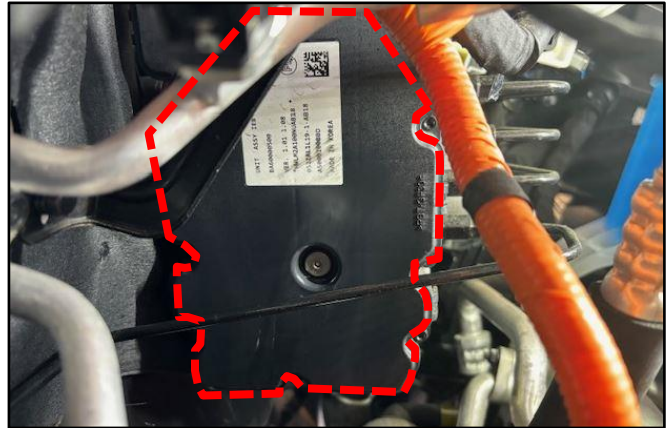
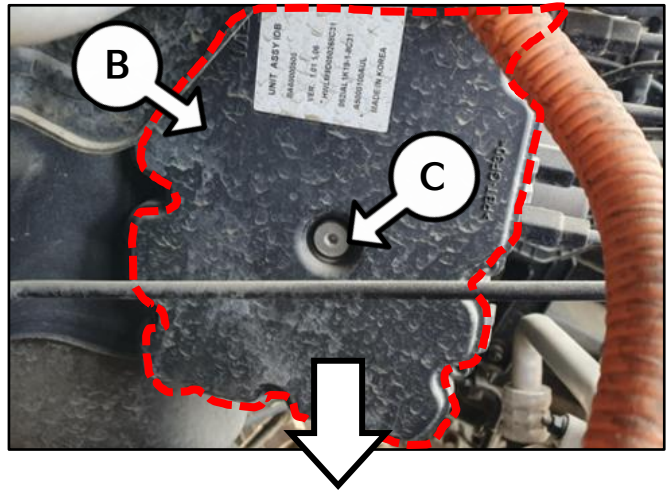
- Remove the power electric cover (A).



- Locate the IEB cover (B).



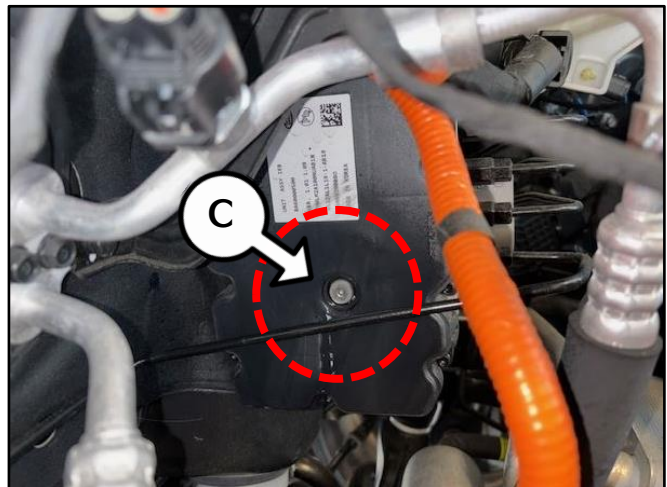
3. Using a clean shop rag/cloth, thoroughly clean the IEB cover (B) surface area surrounding the cover retaining bolt (C).



- 4a. Apply a coat of silicone by spraying on the bolt (C) and surrounding area.

Silicone Spray: PN UM017 CH014

- 4b. Hold the spray can nozzle down for three (3) seconds and wait ten (10) minutes before applying a second coat of silicone.



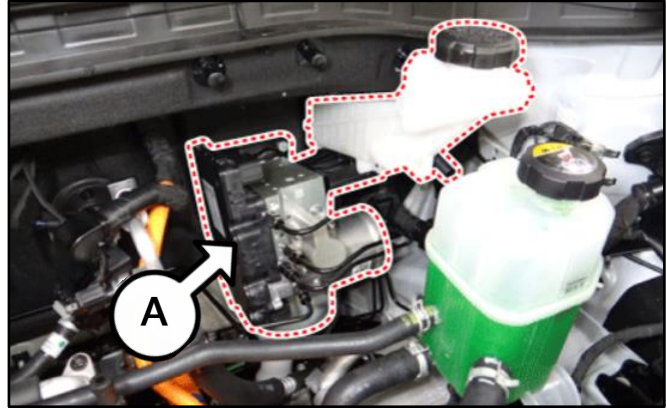
5. Reinstall the power electric cover (A).
6. Confirm normal operation.

SUBJECT:

IEB INSPECTION & WATER PROOFING/REPLACEMENT (SC321)

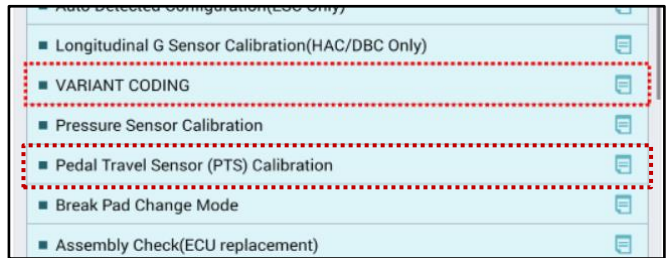
Replacement Procedure: IEB (Integrated Electronic Booster)

1a. Replace the Integrated Electronic Booster (IEB) assembly (A) by referring to "Brake System → Integrated Electronic Brake (IEB) Systems → Integrated Electronic Booster → Repair procedures" in the applicable Shop Manual on KGIS.



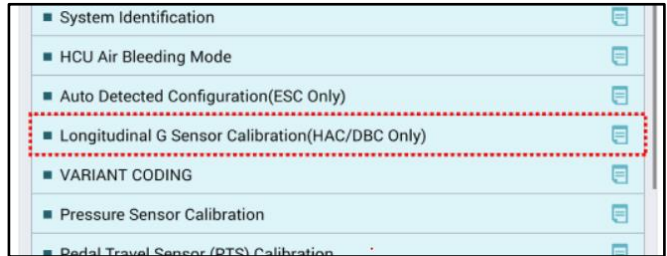
1b. In addition, follow the 'Installation' instructions after replacement is completed.

2. Perform 'Variant Coding'.

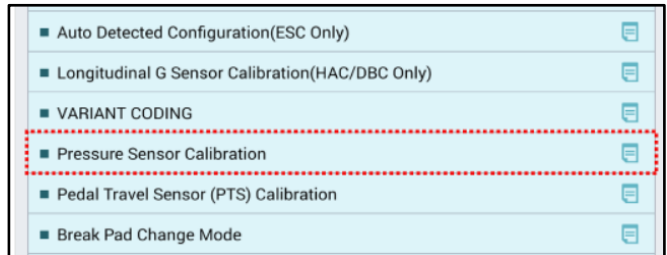


3. Perform brake 'Pedal Travel Sensor (PTS) Calibration'.

4. Perform 'Longitudinal G Sensor Calibration'.

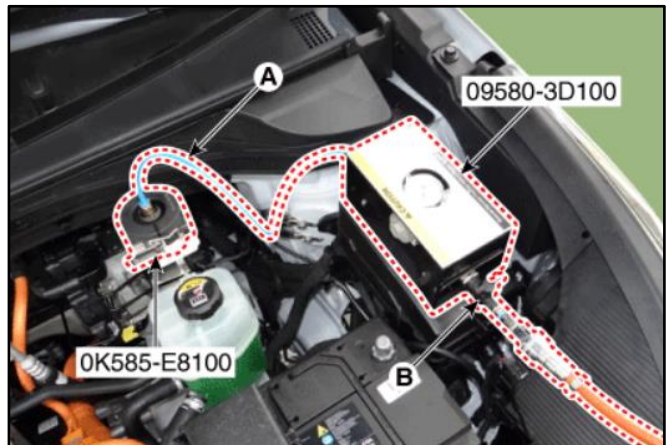


5. Perform 'Pressure Sensor Calibration'.



6. Perform the Air Bleed by referring to the 'Brake Bleeding Procedures' on KGIS.

7. Confirm normal vehicle operation.





SUBJECT:



IEB INSPECTION & WATER PROOFING/REPLACEMENT (SC321)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Niro EV (DE EV)	December 5, 2018 to April 12, 2022

REQUIRED TOOL:

Tool Name	Part Number	Figure	Comments
KDS	N/A		N/A
Air Bleeder Tool	09580 3D100		Located Drawer #16
Air Bleeding Tool Adapter	OK585 E8100		

REQUIRED PARTS:

Part Name	Part Number	Figure	Qty.	Comments
Silicone Spray	UM017 CH014		1	1 bottle covers 10 vehicles
IEB Assembly	58500 Q4300QQK		1	DTC C240527 MUST be stored.
Brake Fluid	UM010 CH043	N/A	2	For IEB Replacement Only

Note: The replacement QQK part number will require a VIN entry for parts ordering. **DO NOT** order these parts for stocking purposes, related to this Campaign. 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.
R	58520 Q4300	0	(SC321) DTC Inspection (OK) + Silicone Coating	240120R0	0.4 M/H	N/A	1
			(SC321) DTC Inspection (NG) + IEB Assembly Replacement	240120R1*	2.4 M/H	58500 Q4300QQK	1
			UM010 CH043			2	

Note: Refer to [Warranty Bulletin 2024-57](#) for claim submission procedures. Manually enter sublet code 'X2' for reimbursement of one roundtrip rideshare expense or up to three (3) days of rental expense for IEB Assembly Replacement with supporting documentation. Use sublet code 'X1' with a maximum amount of \$1.90 per vehicle for the silicone spray. *A [Vehicle Diagnosis Number \(VDN\)](#) must be created for DTC C240527. If a VDN is not created, Warranty claim submission issues WILL occur. All claims are subject to Warranty review and chargeback.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **SC321** when accessing the KDealer+ system.