



GROUP	MODEL
Voluntary Emissions Service Campaign	2022-2023MY Multiple Models Listed (HEV, PHEV)
NUMBER	DATE
SC325 (Rev 1, 02/19/2025)	February 2025

VOLUNTARY EMISSIONS SERVICE CAMPAIGN

AEWP INSPECTION AND REPLACEMENT (SC325)

NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides information to inspect and, if necessary, replace the Auxiliary Electric Water Pump (AEWP), control harness wiring, and/or engine room junction box for coolant intrusion and/or corrosion on certain 2022-2023MY Kia Hybrid and Plug-in Hybrid vehicles listed in the table below. The AEWP in the subject vehicles may crack internally and allow coolant to intrude into the AEWP circuitry. If coolant enters the AEWP circuitry, the Check Engine Light (CEL) may be illuminated with one or more DTCs listed on page 2. If the vehicle continues to be driven in this condition, the Active Air Flap (AAF) warning message can also activate, and coolant may eventually migrate through the wiring harness to the engine room junction block. This may result in a reduction of motive power and may cause the vehicle to release air pollutants which exceeds Federal and California standards. These standards were established to protect the public health and welfare from the dangers of air pollution. Follow the procedure outlined in this publication to inspect for a related DTC(s) stored and coolant leaking into the AEWP harness wiring connector on the applicable vehicle. Depending on the inspection result, replacement of the AEWP may be required, along with possible Control Harness wiring and PCB block assembly. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.

MY	Model	Production Date Range
2022-2023	Sorento HEV, PHEV (MQ4 P/HEV) Gamma II 1.6L T-GDI	March 02, 2022 - December 27, 2022
2023	Sportage HEV, PHEV (NQ5 P/HEV) Gamma II 1.6L T-GDI	March 02, 2022 - January 04, 2023
2023	Niro HEV, PHEV (SG2 P/HEV) Kappa 1.6L GDI	June 21, 2022 - April 26, 2023

NOTICE

There is no charge to the vehicle owner for this repair.

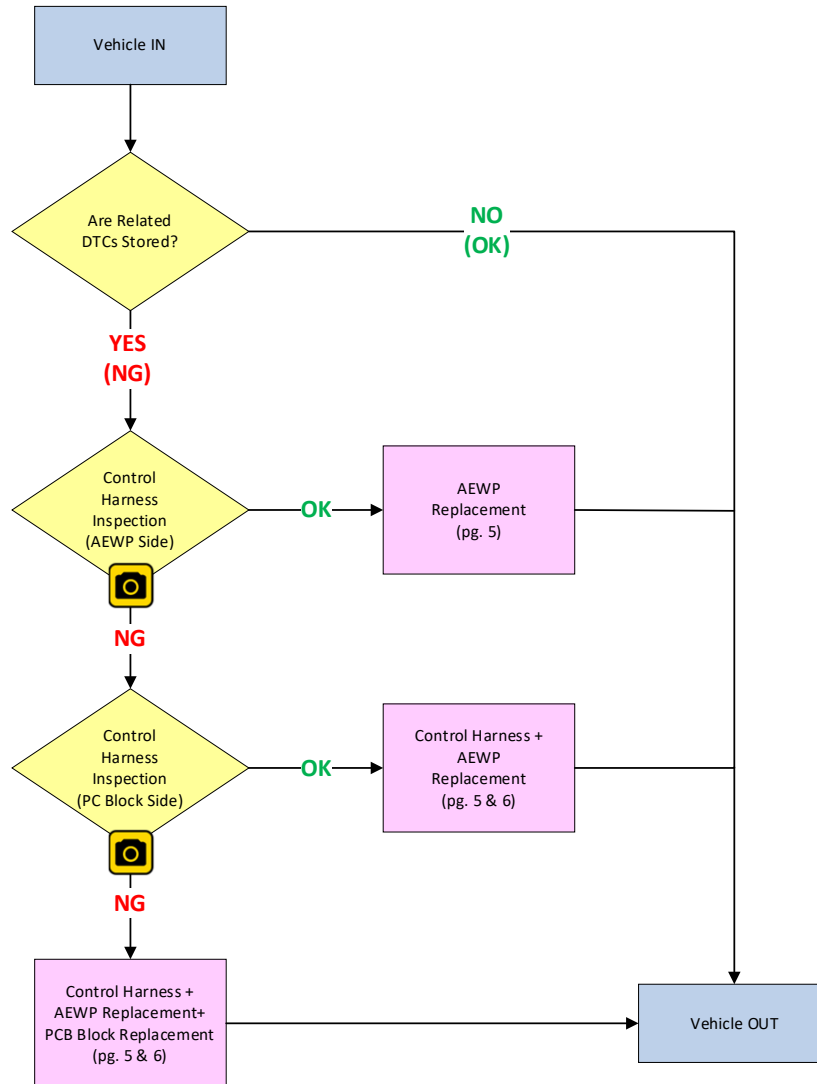
Repair status for a VIN is provided on KDealer+ (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on KDealer+ (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected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

This issue number is SC325.

Flowchart:

Related DTC Description(s):

- P260100 - Coolant Pump Control Circuit Range/Performance
- P2B9C00 - Coolant Pump 'A' Stuck/Stalled
- U019F00 - Lost Communication with Engine Coolant Pump Control Module
- U062300 - Lost Communication with Coolant Pump 'A'
- U111200 - LIN Communication Error



One (1) of the MQ4 HEV Control Harness Part Numbers is currently unavailable. If an MQ4 HEV vehicle requires the replacement of the unavailable control harness part number, the vehicle will **need to be parked** until the replacement part number is available.

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:

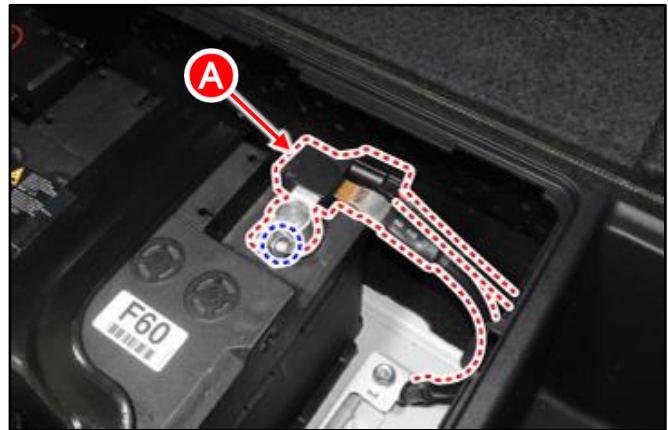
AEWP INSPECTION AND REPLACEMENT (SC325)**Inspection Procedure:**

1. Using KDS, scan the vehicle for related DTC(s):
 - U019F00 - Lost Communication with Engine Coolant Pump Control Module
 - U062300 - Lost Communication with Coolant Pump 'A'
 - P260100 - Coolant Pump 'A' Control Circuit Performance/Stuck Off
 - P2B9C00 - Coolant Pump 'A' Stuck/Stalled
 - U111200 - LIN Communication Error

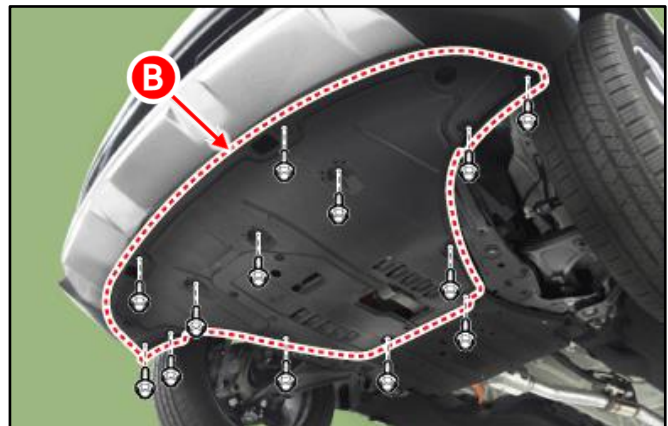
2. Are any related DTC(s) stored?
 - **No, related DTC(s) are NOT stored (OK),**
no further action is required. Claim Op Code 24022210 to close this campaign.

 - **Yes, related DTC(s) ARE stored (NG),**
proceed to step 3.

3. Disconnect the 12V battery negative (-) terminal (A).



4. Remove the engine room under cover (B).

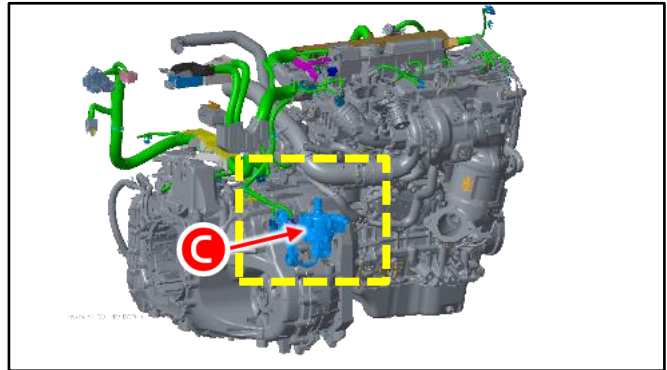


SUBJECT:

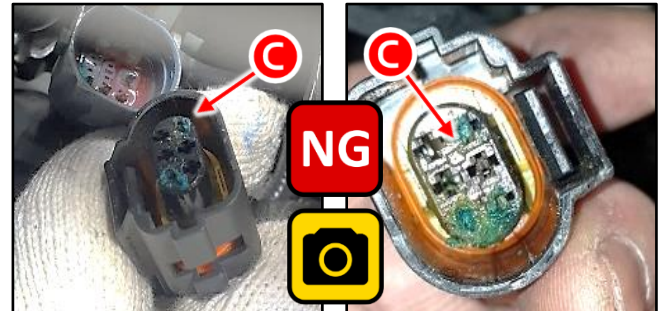
AEWP INSPECTION AND REPLACEMENT (SC325)

5. Locate AEWP and disconnect the control harness connector (C).
6. Inspect the AEWP connector (C) for moisture and/or coolant residue.

Are moisture and/or coolant residue present in the connector?



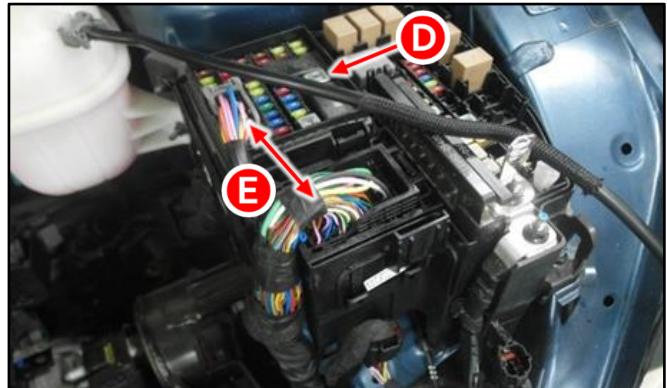
- **NO, moisture and coolant residue were NOT found (OK)**, then replace the following parts to close this campaign:
 - 1) AEWP assembly (Page 5)



7. Lower the vehicle and locate the Process Control Block (PCB) - Fuse/Junction box (D).
8. Disconnect the control harness connectors (E) and inspect the connector for moisture.

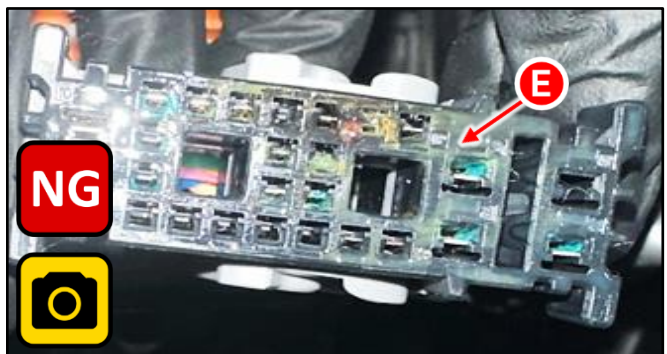
Is coolant residue present in the connector?

- **NO, moisture and coolant residue were NOT found (OK)**, then replace the following parts to close this campaign:

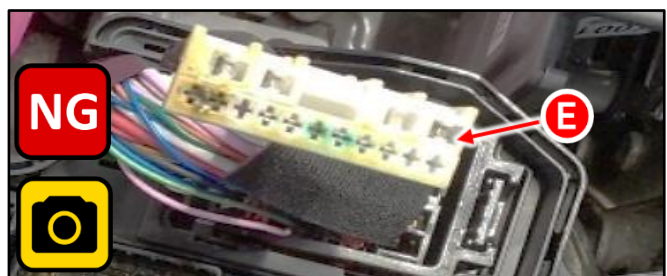


- 1) AEWP assembly (Page 5)
- 2) Control Harness wiring (Page 6)

- **YES, moisture and/or coolant residue WERE found (NG)**, take a picture of the inspection area using KDS warranty attachment picture function to secure proper documentation and warranty compliance, then replace the following parts to close this campaign:



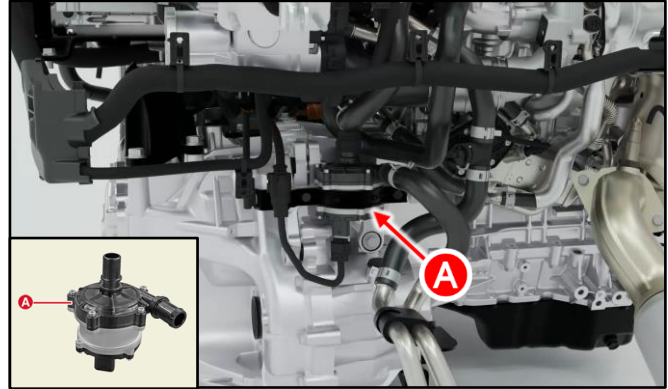
- 1) AEWP assembly (Page 5)
- 2) Control Harness wiring (Page 6)
- 3) Engine Room PCB Block (Page 5)



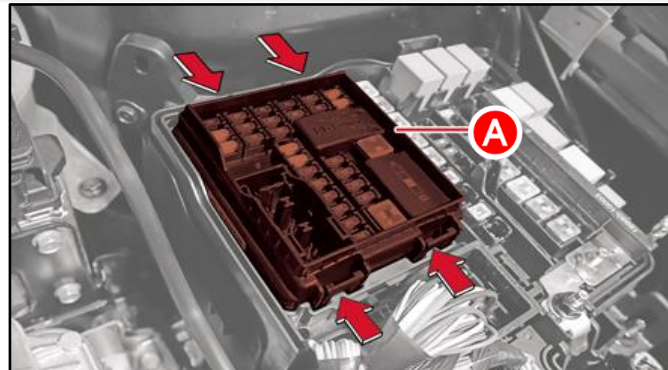
SUBJECT:

AEWP INSPECTION AND REPLACEMENT (SC325)**Replacement Procedure: (Auxiliary EWP Assembly and Extension Wiring)**

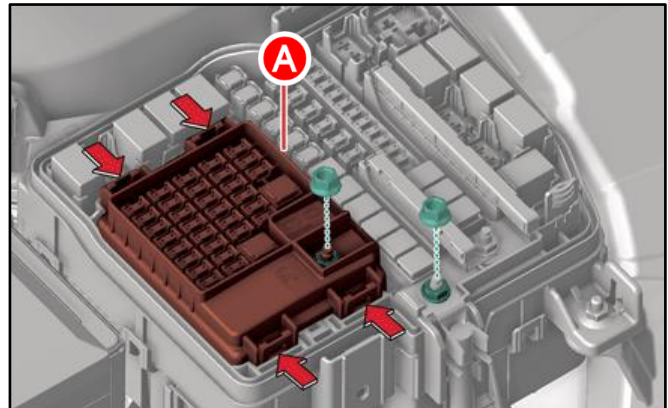
1. Replace the AEWP (A) by referring to "Heating, Ventilation and Air Conditioning → Heater → Auxiliary Electric Water Pump (AEWP) → Repair procedure/Removal and Installation" in the applicable Shop Manual on KGIS.

**Engine Room PCB Block Replacement:**

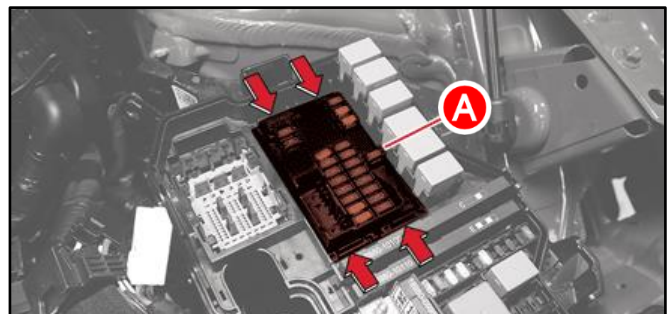
1. Replace the PCB Block (A) by referring to "Body electrical System → Fuses and Relays → Engine Room Junction Box → Repair procedure (Engine Room PCB Block)" in the applicable Shop Manual on KGIS.



NQ5 HEV, MQ4 HEV



NQ5 PHEV, MQ4 PHEV



SG2 HEV, PHEV

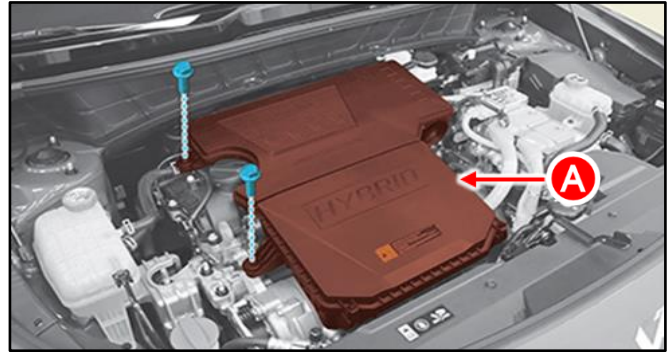
Control Harness (Engine Room) Wiring Replacement: (MQ4/NQ5 P/HEV)

① IMPORTANT

One (1) of the MQ4 HEV Control Harness Part Numbers is currently unavailable. If an MQ4 HEV vehicle requires the replacement of the unavailable control harness part number, the vehicle will **need to be parked** until the replacement part number is available.

1. Remove the following parts by referring to the applicable shop manual on KGIS:

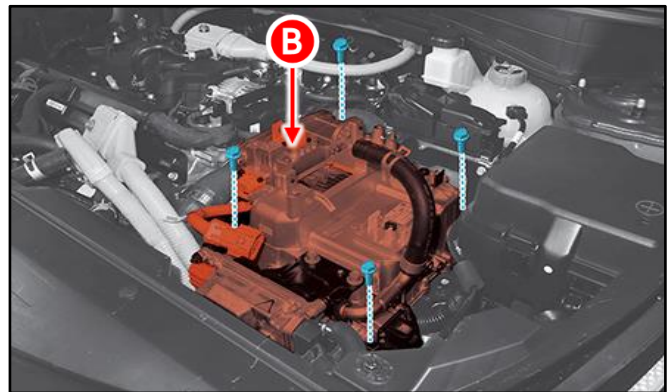
- Air Cleaner Assembly (A)



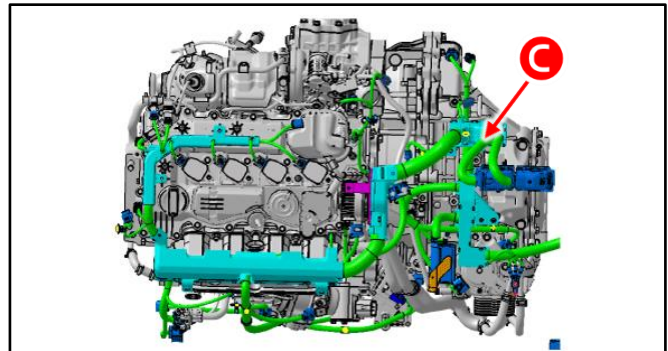
- Hybrid Power Control Unit (HPCU) (B)



Tightening torque for HPCU bolts:
14.5 - 21.7 lb.ft (19.6 - 29.4 N.m)

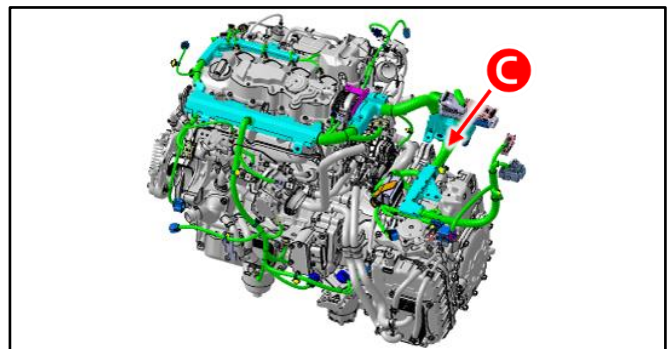


2. Remove the control harness (C) (shown in green) from the engine room by disconnecting all related connectors and grounds from the engine components.



3. Disconnect the control harness (C) from the junction block and remove the control harness assembly.

4. Install the new control harness (C) assembly in the reverse order of removal.



SUBJECT:

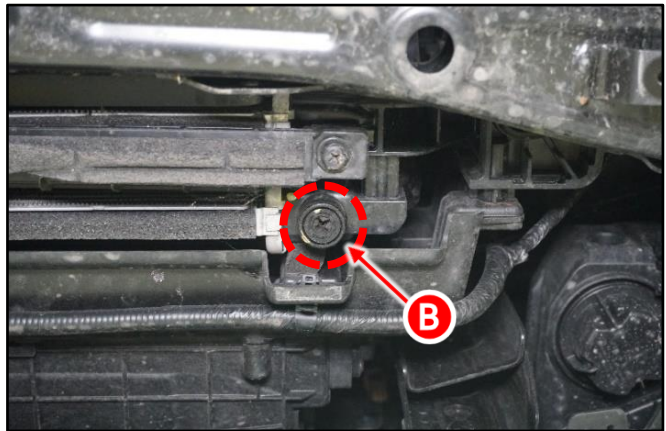
AERP INSPECTION AND REPLACEMENT (SC325)

Control Harness (Engine Room) Wiring Replacement: (SG2 P/HEV)

1. Remove the coolant reservoir cap (A).



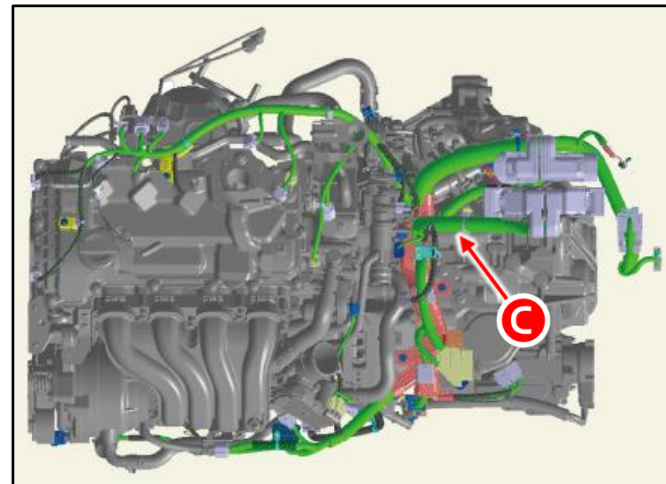
2. Drain the hybrid motor coolant by removing the drain plug (B).



3. Remove the following parts by referring to the applicable shop manual on KGIS:

- Air Cleaner Assembly
- Hybrid Power Control Unit (HPCU)

4. Remove the control harness (C) (shown in green) from the engine room by disconnecting all related connectors and grounds from the engine components.



5. Disconnect the control harness (C) from the junction block and remove the control harness assembly.
6. Install the new control harness assembly (C) in the reverse order of removal.

SUBJECT: AEWB INSPECTION AND REPLACEMENT (SC325)

ATTENTION: THE PROOF OF CORRECTION CARD AND CAMPAIGN COMPLETION LABEL ARE RESTRICTED ONLY TO DEALERS IN THE FOLLOWING STATES:

California, Connecticut, Delaware, Massachusetts, Maine, Maryland, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont, and Washington. See Parts Information below to order the Proof of Correction Card and Campaign Completion Label from the PDC.

VEHICLE EMISSION RECALL - PROOF OF CORRECTION CARD

A Vehicle Emission Recall - Proof of Correction card must be filled out for all vehicles registered in California, Connecticut, Delaware, Massachusetts, Maine, Maryland, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont, and Washington. Residents of these states, who own an affected vehicle, will be required to possess a Vehicle Emission Recall - Proof of Correction card as evidence of voluntary service campaign completion, when they apply for vehicle registration renewal.

WHAT TO DO WITH THE CARD:

The Vehicle Emission Recall - Proof of Correction card must be completed by the Dealership's Service Manager using a permanent ink pen. A fine point pen is recommended. When filling in the information, copy the information directly from the vehicle, not the repair order. **ALL INFORMATION MUST BE PRINTED AND NEAT.**

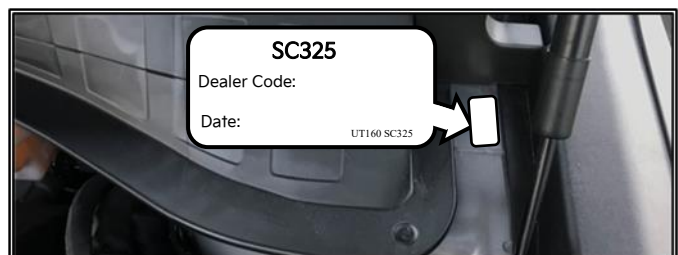
NOTE: DO NOT COMPLETE THE CARD UNLESS THE SERVICE CAMPAIGN WORK IS COMPLETED.

The copy of the card shown below indicates the areas to be filled in. Each area must be filled in. The completed card should be given to the owner of the vehicle upon completion of the Campaign and placement of the Campaign Completion Label outlined below...

FILLING OUT AND APPLYING THE CAMPAIGN COMPLETION LABEL (CA and S.177 STATES ONLY):

The dealer must fill in the Dealer Code and Date information fields on the Campaign Completion Label. Once complete, affix the campaign completion label under the hood of the vehicle, as shown below.

CA and S.177 States Only: Apply SC325 Campaign Completion Label onto the body in the area next to the shock tower, as shown. **NOTE: Be sure to clean the mounting surface to ensure proper label adhesion.**

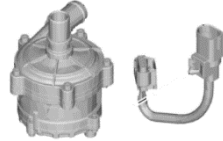
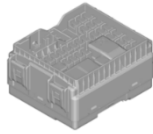




SUBJECT:

AEWP INSPECTION AND REPLACEMENT (SC325)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Sorento HEV, PHEV (MQ4 P/HEV)	March 02, 2022 - December 27, 2022
Sportage HEV, PHEV (NQ5 P/HEV)	March 02, 2022 - January 04, 2023
Niro HEV, PHEV (SG2 P/HEV)	June 21, 2022 - April 26, 2023

REQUIRED PART:

Model	Part Name	Part Number	Figure	Qty.			
MQ4 HEV NQ5 HEV	AEWP Assembly with Extension Harness	25160 2MHX1QQK		1			
MQ4 PHEV NQ5 PHEV		25160 2MHY1QQK					
SG2 (P)HEV		25100 08HBOQQK					
MQ4 HEV	Control Harness	91400 P4231QQK 91400 P4060QQK 91400 P4061 91400 P4311	N/A	1			
MQ4 PHEV		91400 P4080QQK 91400 P4261 91400 P4371					
NQ5 HEV		91400 CH020QQK 91400 CH050QQK 91400 CH090 91400 CH100					
NQ5 PHEV		91410 CH010 91410 CH040					
SG2 HEV		91400 AT100QQK					
SG2 PHEV		91400 AT130QQK					
MQ4 (P)HEV		PCB Block			91959 P2200		1
NQ5 (P)HEV					91959 P1200		
SG2 (P)HEV	91959 AT010						
ALL	Coolant (Concentrate)	UM022 CH271	N/A	1			
ALL	Campaign Completion Label	UT160 SC325		1			
	Vehicle Emissions Recall Proof of Correction Card	UT161 SC325		1			

Note: PCB Blocks and some configurations of Control Harness ARE NOT provided with QQK. Order those parts by general part number** in case the part needs to be replaced. **Mandatory Parts Return is required for inspections resulting in 'NG' result.** All claims are subject to Warranty review and chargeback.



SUBJECT: **AEWP INSPECTION AND REPLACEMENT (SC325)**

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
ALL	R	25160 2MHX1	0	(SC325) DTC Inspection (OK)	240222I0	0.2 M/H	N/A	0
MQ4 HEV	R	25160 2MHX1	0	(SC325) DTC Inspection (NG) + AEWP Connector Inspection (OK) + AEWP Replacement	240222R0	1.6 M/H	25160 2MHX1QQK	1
MQ4 PHEV					240222R1		25160 2MHY1QQK	
NQ5 HEV					240222R2	1.6 M/H	25160 2MHX1QQK	1
NQ5 PHEV					240222R3		25160 2MHY1QQK	
SG2 P/HEV					25490 08HA0	1.5 M/H	25100 08HBOQQK	1
							UM022 CH271	
MQ4 HEV		25160 2MHX1	0	(SC325) DTC Inspection (NG) + AEWP Connector Inspection (NG) + Control Harness Inspection (OK) + AEWP Replacement + Control Harness Replacement	240222R5	3.0 M/H	25160 2MHX1QQK	1
							91400 P4231QQK or 91400 P4060QQK or 91400 P4061 or 91400 P4311	
							UM022 CH271	1

Continued on page 11.



SUBJECT:

AEWP INSPECTION AND REPLACEMENT (SC325)

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
MQ4 PHEV					240222R6	3.0 M/H	25160 2MHY1QQK	1
							91400 P4080QQK	1
							or 91400 P4261	
							or 91400 P4371	
							UM022 CH271	1
NQ5 HEV		25160 2MHX1	0	(SC325) DTC Inspection (NG) + AEWP Connector Inspection (NG) + Control Harness Inspection (OK) + AEWP Replacement + Control Harness Replacement	240222R7	3.2 M/H	25160 2MHX1QQK	1
							91400 CH020QQK	1
							or 91400 CH050QQK	
							or 91400 CH090	
						91400 CH100	1	
						UM022 CH271	1	
NQ5 PHEV					240222R8	3.2 M/H	25160 2MHY1QQK	1
							91410 CH010	1
							or 91410 CH040	
						UM022 CH271	1	
SG2 HEV					240222R9		25100 08HBOQQK	1
							91400 AT100QQK	
							UM022 CH271	
SG2 PHEV		25490 08HA0			240222RA	2.8 M/H	25100 08HBOQQK	1
							91400 AT130QQK	
							UM022 CH271	

Continued on page 12.



SUBJECT: **AEWP INSPECTION AND REPLACEMENT (SC325)**

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
MQ4 HEV					240222RB	3.1 M/H	25160 2MHX1QQK	1
							91400 P4231QQK or 91400 P4060QQK or 91400 P4061 or 91400 P4311	1
							91959 P2200	1
							UM022 CH271	1
MQ4 PHEV		25160 2MHX1	0	(SC325) DTC Inspection (NG) + AEWP Connector Inspection (NG) + Control Harness Inspection (NG) + AEWP Replacement + Control Harness Replacement + PCB Block Replacement	240222RC	3.1 M/H	25160 2MHY1QQK	1
							91400 P4080QQK or 91400 P4261 or 91400 P4371	1
							91959 P2200	1
							UM022 CH271	1
NQ5 HEV					240222RD	3.2 M/H	25160 2MHX1QQK	1
							91400 CH020QQK or 91400 CH050QQK or 91400 CH090 or 91400 CH100	1
							91959 P1200	1
							UM022 CH271	1

Continued on page 13.



SUBJECT:

AEWP INSPECTION AND REPLACEMENT (SC325)**WARRANTY INFORMATION:****N Code: N99 C Code: C99**

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
NQ5 PHEV	R	25160 2MHX1	0	(SC325) DTC Inspection (NG) + AEWP Connector Inspection (NG) + Control Harness Inspection (NG) + AEWP Replacement + Control Harness Replacement + PCB Block Replacement	240222RE	3.2 M/H	25160 2MHY1QQK	1
							91410 CH010 or 91410 CH040	1
							91959 P1200	1
							UM022 CH271	1
SG2 HEV	R	25490 08HA0	0	(SC325) DTC Inspection (NG) + AEWP Connector Inspection (NG) + Control Harness Inspection (NG) + AEWP Replacement + Control Harness Replacement + PCB Block Replacement	240222RF	2.9 M/H	25100 08HB0QQK	1
							91400 AT100QQK	
							91959 AT010	
							UM022 CH271	
SG2 PHEV	R	25490 08HA0	0	(SC325) DTC Inspection (NG) + AEWP Connector Inspection (NG) + Control Harness Inspection (NG) + AEWP Replacement + Control Harness Replacement + PCB Block Replacement	240222RG	2.9 M/H	25100 08HB0QQK	1
							91400 AT130QQK	
							91959 AT010	
							UM022 CH271	

Note: Refer to [Warranty Bulletin 2025-07](#) 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, with supporting documentation.

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.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference [SC325](#) when accessing the KDealer+ system.

