



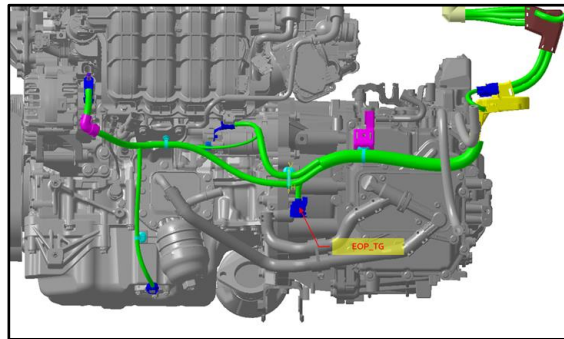
GROUP	MODEL
ELE	2025-2026MY K5 (DL3) w/2.5L GDI THETA III
NUMBER	DATE
419	June 2026

TECHNICAL SERVICE BULLETIN

SERVICE ACTION: BATTERY WIRING HARNESS COVERING INSPECTION/REPLACEMENT (SA645)

SUBJECT:

This bulletin provides information for inspecting the 12V battery wiring harness on certain 2025-2026 MY K5 (DL3) vehicles equipped with the Theta III 2.5L GDI engine, produced from February 20, 2024, through March 13, 2026. The subject vehicles may exhibit an illuminated Malfunction Indicator Lamp (MIL) along with a low engine oil warning light and/or battery warning light displayed on the instrument cluster, caused by abrasion of the wiring harness over time. One or more of the Diagnostic Trouble Codes (DTCs) listed on page 2 may be stored. Follow the procedure outlined in this publication to inspect the battery wiring harness and replace the battery harness bracket, or, if required, replace the battery wiring harness assembly. Before performing this procedure, confirm that the vehicle is included in the affected VIN range.



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.

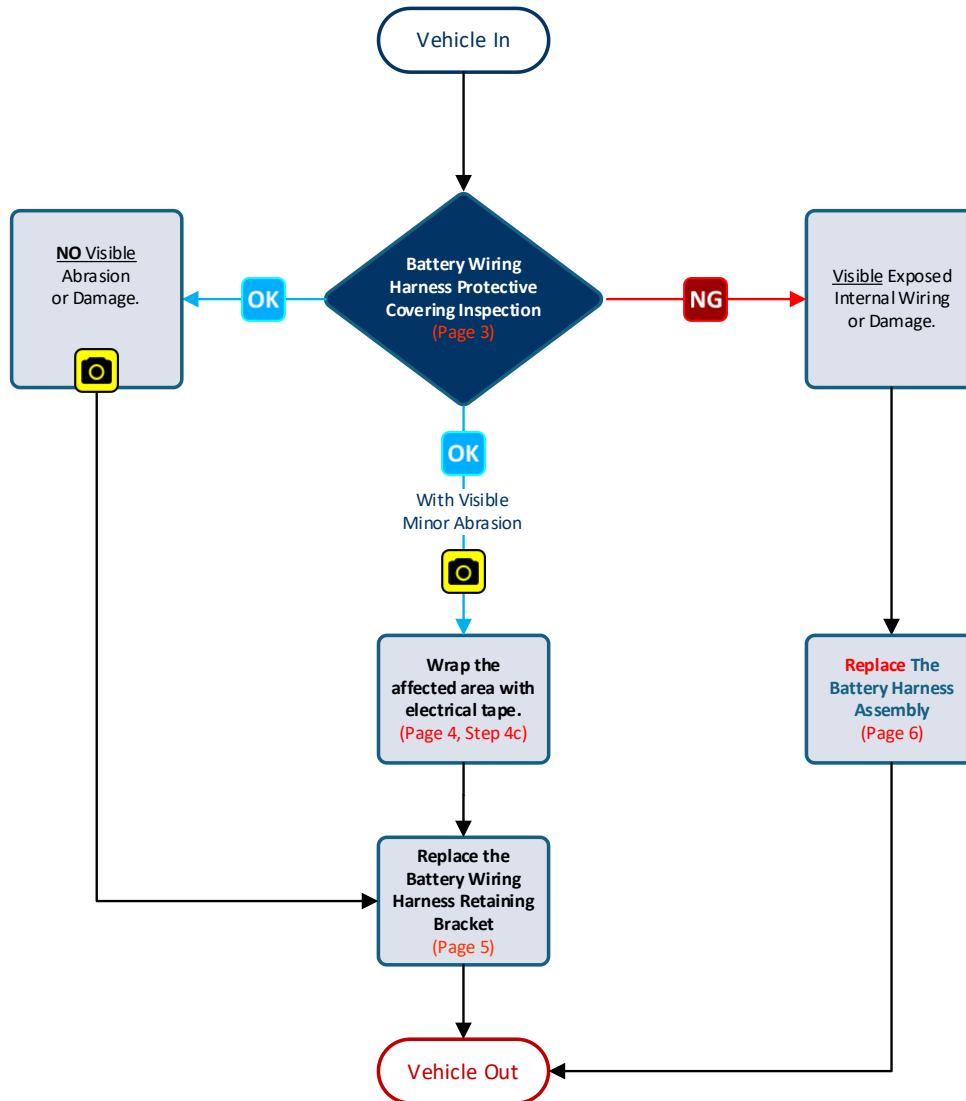
This issue number is SA645.

**SERVICE ACTION: BATTERY WIRING HARNESS
COVERING INSPECTION/REPLACEMENT (SA645)**

SUBJECT:

Flowchart:

A KVID photo of the battery harness 'OK' condition MUST be attached to the claim using KDS Tablet Warranty Claim Attachment Tab 'XX - Other'.



DTC Description:

- U012D00/F1 - Lost Communication with Generator Control Module
- U111200/F1/F2/F3 - LIN Communication Error
- P061500/F0 - Starter Relay 'A' Circuit Low
- P061600/F0/F1/F2 - Starter Relay Circuit Low
- P061700/F0/F1/2 - Starter Relay Circuit High
- P250B00 - Engine Oil Level Sensor Circuit Range/Performance
- P250C00 - Engine Oil Level Sensor Circuit Low
- P250F00 - Engine Oil Level Too Low
- U066800 - Lost Communication with Engine Oil Level Sensor Circuit
- U028700/F1/2 - Lost Communication with Transmission Fluid Pump Module

Printed document copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information.

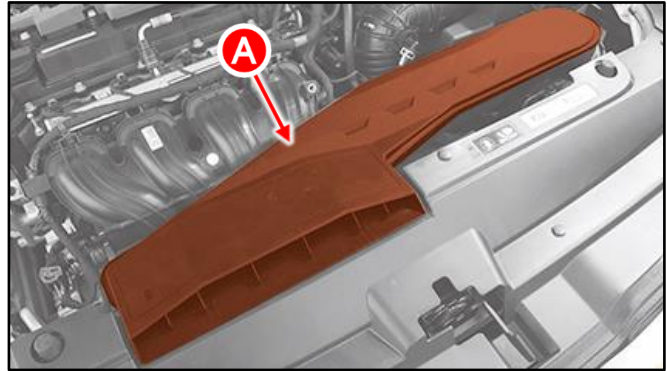


SUBJECT:

SERVICE ACTION: BATTERY WIRING HARNESS COVERING INSPECTION/REPLACEMENT (SA645)

Inspection Procedure:

1. Remove the air duct (A).



2. Remove the air cleaner box (B) only.

Note: The hoses do not need to be removed for inspection.



Tightening torque for hose clamp:
2.2 - 3.6 lb.ft (2.9 - 4.9 N.m)

Tightening torque for air cleaner box bolts:
5.8 - 7.2 lb.ft (7.8 - 9.8 N.m)

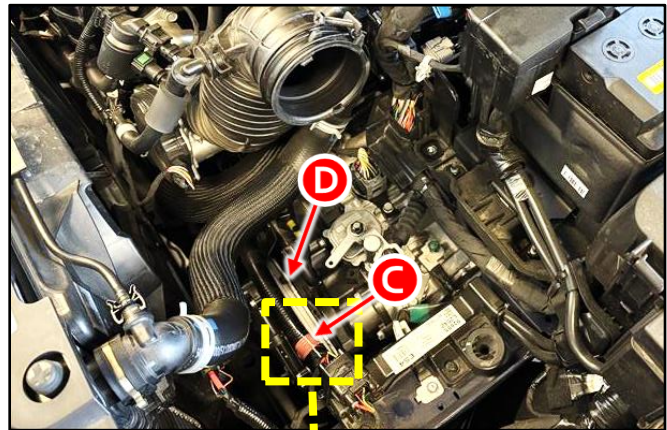


- 3a. Locate the ATF warmer (D) and inspect the battery wiring harness (C) for damage where it may make contact against the ATF warmer (D).



TECH TIP

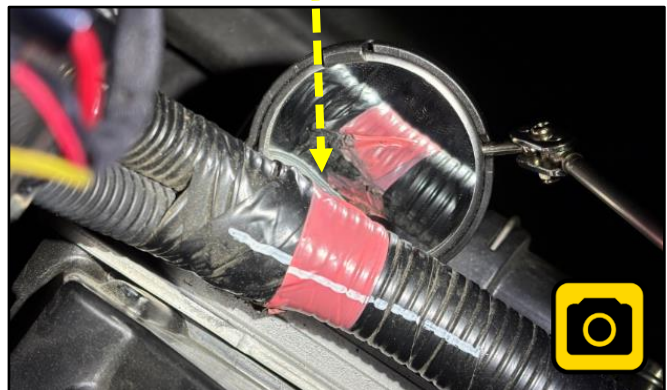
Inspect the bottom area of the battery wiring harness (C) using a telescoping mirror closest to the ATF warmer.



- 3b. Take one (1) clear photo of the battery wiring harness (C) covering condition next to the ATF warmer (D).

IMPORTANT

Refer to steps 4a - 4e for sample images needed. Take one (1) photo of the required OK or NG conditions.



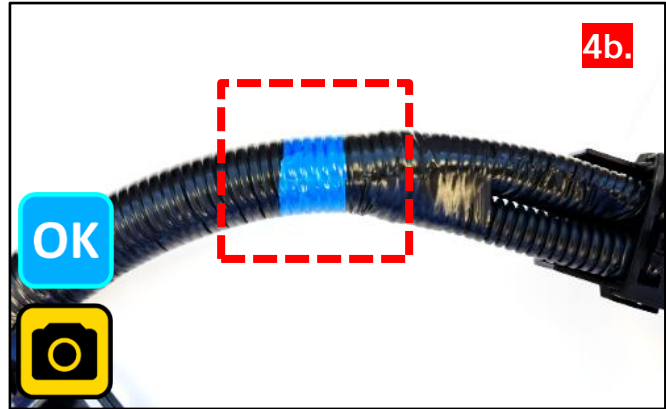
**SERVICE ACTION: BATTERY WIRING HARNESS
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SUBJECT:

*** Refer to the sample images below to submit the 1 (one) photo requirement from step 3b. ***

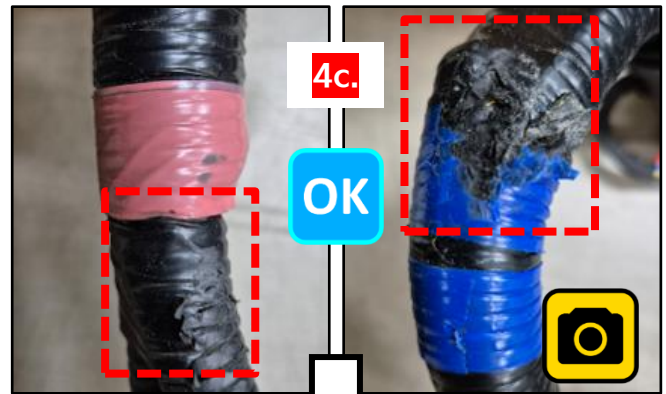
4a. Is there visual damage such as, abrasion and penetration of the protective covering and/or potential damage to the harness internal wiring?

4b. • If there is NO visible damage to the battery wiring harness (C) covering (OK). Using KDS Tablet 'Warranty Claim Attachment' tab, take one (1) clear photo of the battery harness inspection area.



or

4c. • If there IS minor abrasion to the battery wiring harness (C) covering (OK). If there is no internal damage to wiring, then apply electrical tape to cover the affected area. Using KDS Tablet 'Warranty Claim Attachment' tab, take one (1) clear photo of the battery harness (C) affected area.



4d. If either conditions described above are (OK), proceed to the 'Replacement Procedure: (Battery Harness Bracket)' on page 5 and replace the existing wiring harness retaining bracket with an improved part.



4e. • If there IS visible damage to the internal wiring of the battery harness (C) (NG), the internal wiring is exposed as shown, then proceed to the 'Replacement Procedure: (Battery Wiring Harness Assembly)' on page 6.

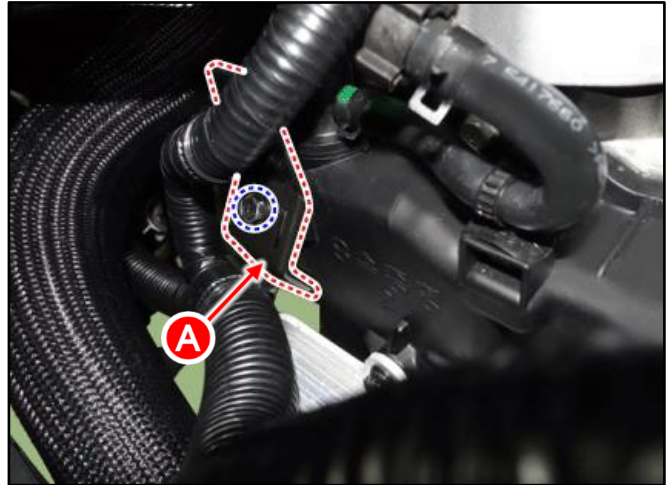


SUBJECT:

SERVICE ACTION: BATTERY WIRING HARNESS COVERING INSPECTION/REPLACEMENT (SA645)

Replacement Procedure: (Battery Harness Bracket)

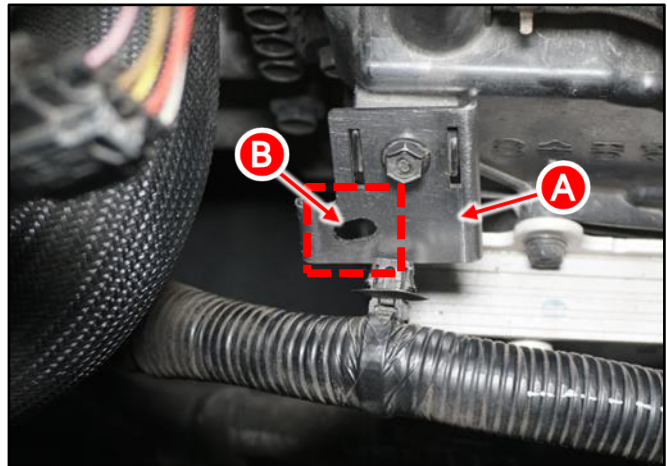
- 1a. Locate the battery wiring harness retaining bracket (A) above the ATF warmer area shown.
- 1b. Loosen the battery wiring harness retaining bracket bolt (A) and discard the removed bracket.



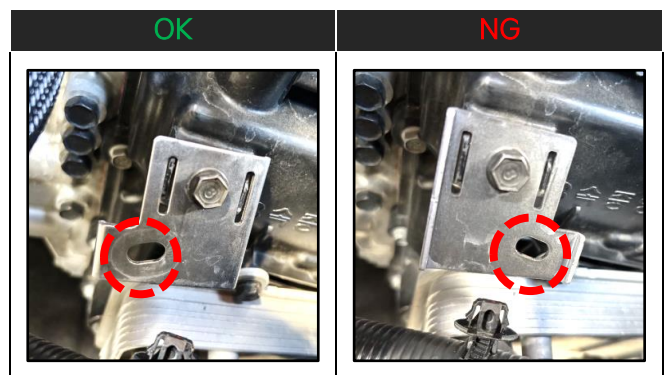
2. Install the new battery harness bracket (A) in the orientation shown.



Tightening torque for bolt:
7.2 - 8.7 lb.ft (9.8 - 11.8 N.m)



Note: Ensure the bracket's wiring harness retaining clip hole (B) is located to the left.



3. Reinstall all removed parts in reverse order of removal.
4. Verify normal vehicle operation.




SUBJECT: **SERVICE ACTION: BATTERY WIRING HARNESS COVERING INSPECTION/REPLACEMENT (SA645)**

Replacement Procedure: **(Battery Wiring Harness Assembly)**

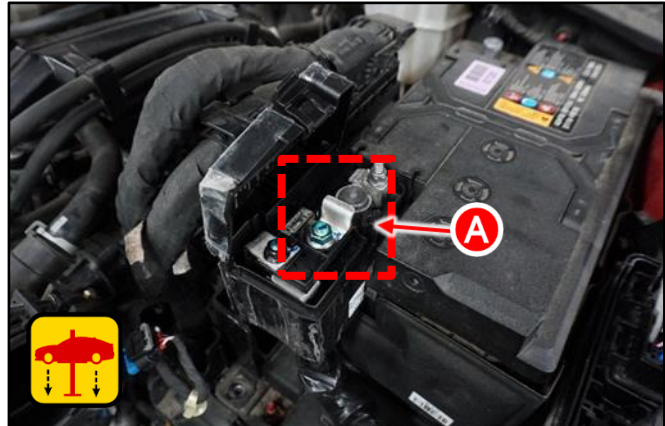
NOTICE

Before beginning, set up the vehicle on a lift as you will need to work under the hood and require to have access from under the vehicle throughout this procedure.


- 1. Disconnect the battery positive terminal (A).



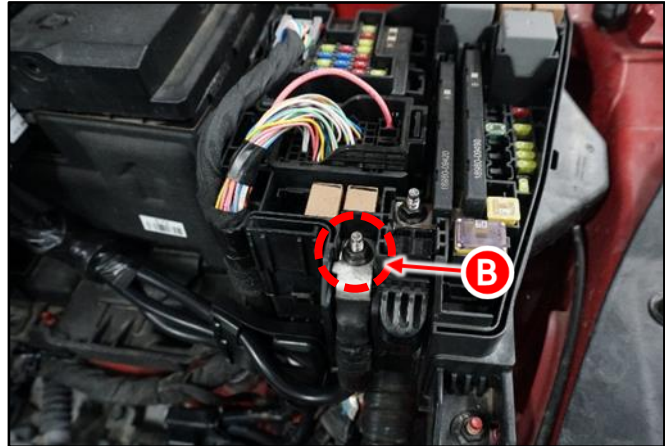
Tightening torque for nut:
5.8 - 7.2 lb.ft (7.8 - 9.8 N.m)



- 2. Remove the fuse box positive terminal (B).



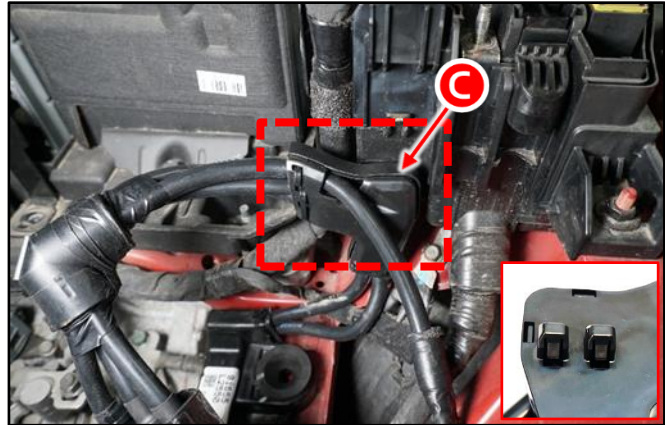
Tightening torque for nut:
5.8 - 7.2 lb.ft (7.8 - 9.8 N.m)



- 3. Remove the battery wiring harness retaining clip (C).



TECH TIP
Use a trim removal tool to disengage the two (2) clips.



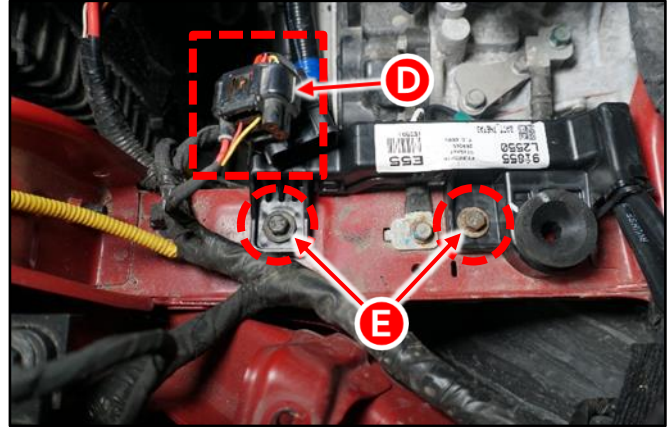
SUBJECT:

SERVICE ACTION: BATTERY WIRING HARNESS COVERING INSPECTION/REPLACEMENT (SA645)

- 4a. Disconnect the battery harness connector (D).
- 4b. Loosen the two (2) battery harness retaining bolts (E).



Tightening torque for bolts (E):
5.8 - 8.7 lb.ft (7.8 - 11.8 N.m)

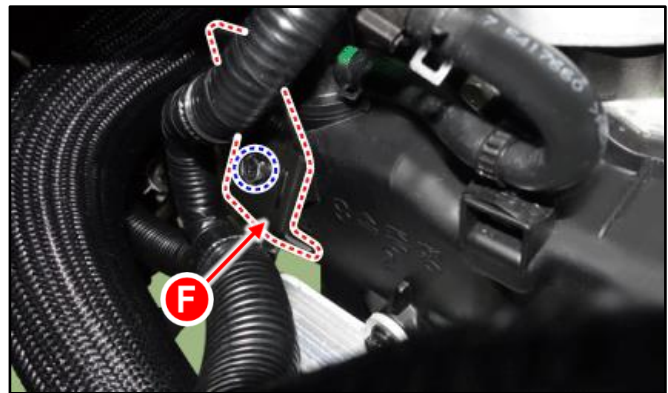


5. Loosen the battery wiring harness bracket retaining bolt (F).



Tightening torque for bolt:
7.2 - 8.7 lb.ft (9.8 - 11.8 N.m)

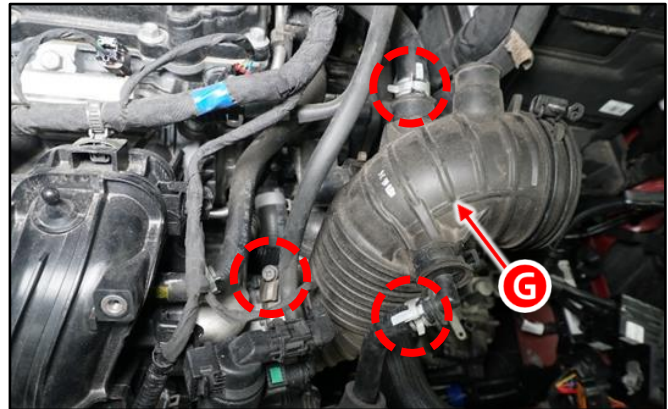
Note: The new battery harness includes a battery harness bracket (F).



6. Loosen the two (2) hose clamps and one (1) band clamp to remove the air intake hose (G).



Tightening torque for band clamp:
2.2 - 3.6 lb.ft (2.9 - 4.9 N.m)

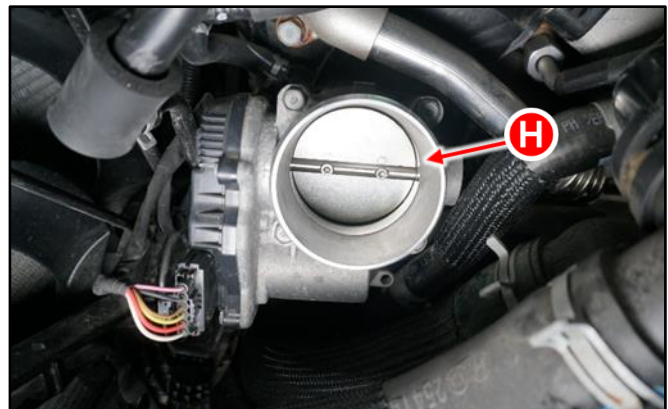


7. Disconnect the throttle body connector and loosen the four (4) bolts to remove the throttle body (H).



Tightening torque for bolt:
7.2 - 8.7 lb.ft (9.8 - 11.8 N.m)


Note: DO NOT reuse the throttle body gasket.



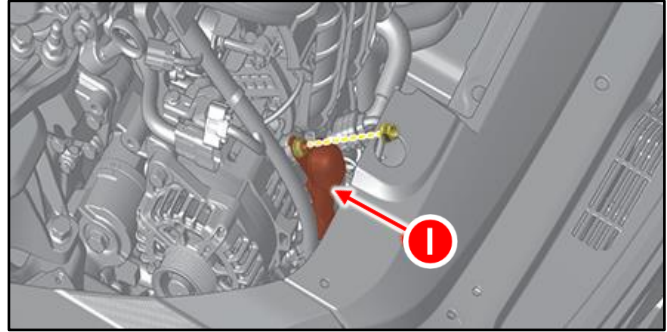
**SERVICE ACTION: BATTERY WIRING HARNESS
COVERING INSPECTION/REPLACEMENT (SA645)**

SUBJECT:

- Disconnect the alternator B+ terminal (I) after removing the retaining nut.

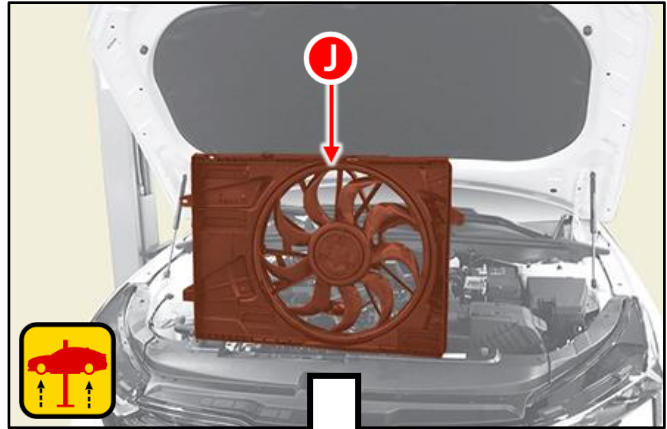


Tightening torque for nut (I):
13.7 - 18.1 lb.ft (18.6 - 24.5 N.m)



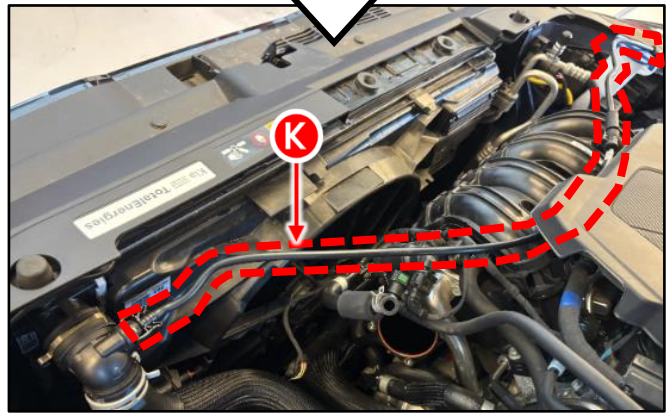
- Remove the cooling fan (J) by referring to "Engine Mechanical System → Cooling System → Cooling Fan → Removal and Installation" in the applicable Shop Manual on KGIS.

Note: Vehicle will need to be raised.

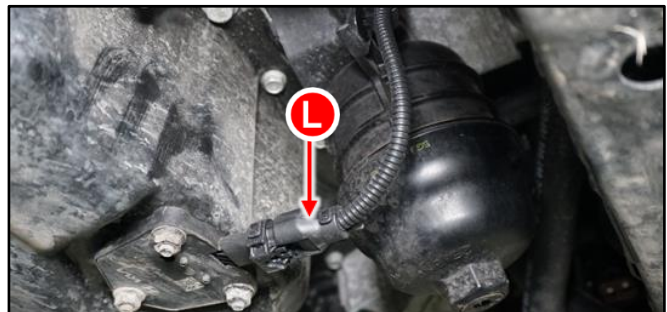


CAUTION

When removing the cooling fan (J), be careful to NOT bend/kink the hardline degassing hose (K). If the degassing hose (K) becomes damaged and needs to be replaced, they must be claimed separately under Warranty or Goodwill. Please refer to [Goodwill Reason Code Guide](#) for Previously Completed Campaign Repairs (in warranty) or Consequential Damage (out of warranty). **DO NOT open a Techline case for a damaged degassing hose (K).**



- Disconnect the oil level sensor connector (L) and clip.

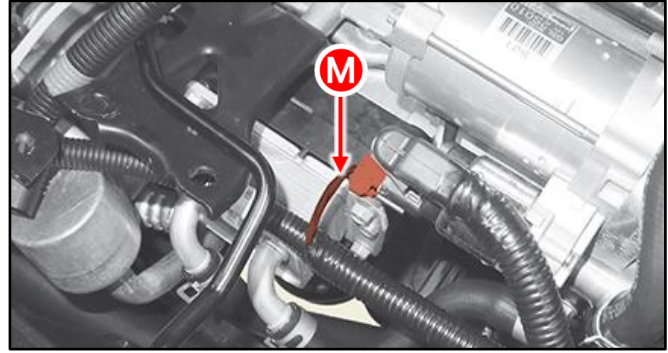


SUBJECT:

SERVICE ACTION: BATTERY WIRING HARNESS COVERING INSPECTION/REPLACEMENT (SA645)

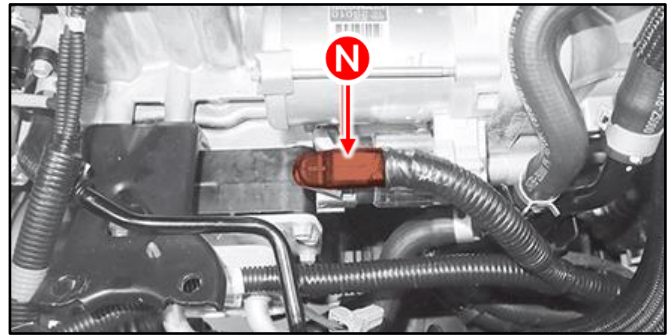
- 11a. Disconnect the starter connector (M).

Note: You may need to raise and lower the vehicle to access and complete some of the remaining steps.



The intake manifold is removed for illustration purposes only. The intake manifold does NOT need to be removed.

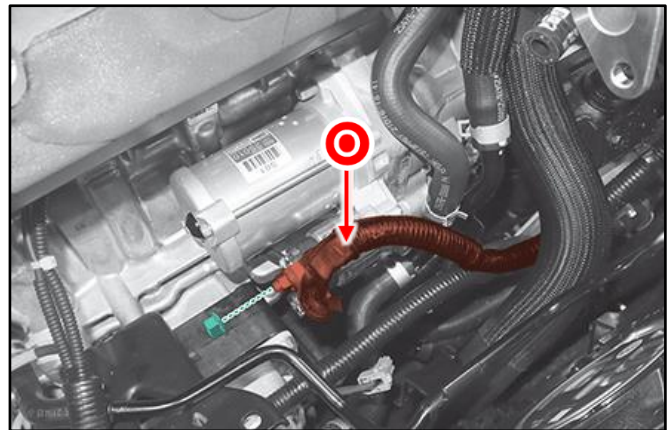
- 11b. Open the starter B+ terminal cover (N).



- 11c. Disconnect the starter B+ terminal (O) after removing the nut.



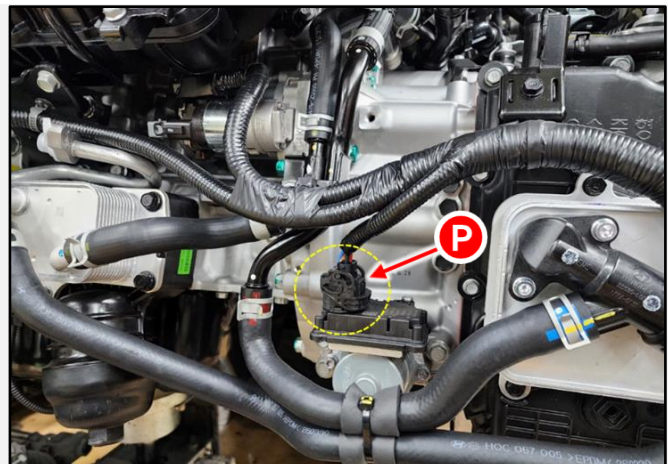
Tightening torque for nut:
8.7 - 10.1 lb.ft (11.8 - 13.7 N.m)



The intake manifold is removed for illustration purposes only. The intake manifold does NOT need to be removed.

For models equipped with Idle-Stop-Go (ISG) ONLY:

- 11d. Disconnect the ISG connector (P).

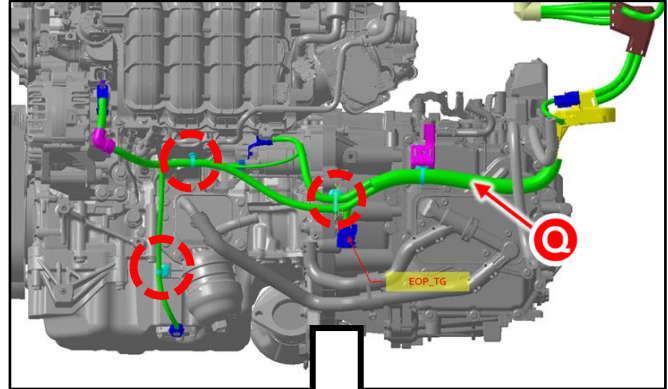


**SERVICE ACTION: BATTERY WIRING HARNESS
COVERING INSPECTION/REPLACEMENT (SA645)**

SUBJECT:

- 12. Remove the battery wiring harness assembly (Q) from the vehicle.

Note: Ensure the three (3) wiring harness retaining clips are detached before removing the battery wiring harness assembly.



- 13. Install the **new** battery wiring harness assembly (P) in the reverse order of removal.



- 14. Reinstall all removed parts in reverse order of removal.
- 15. Clear any stored DTCs.
- 16. Verify normal vehicle operation.







SUBJECT:

SERVICE ACTION: BATTERY WIRING HARNESS COVERING INSPECTION/REPLACEMENT (SA645)

AFFECTED VEHICLE RANGE:

Model	Production Date Range
K5 (DL3)	February 20, 2024 to March 13, 2026

REQUIRED PART:

Part Name	Part Number	Figure	Qty.	Comments
Bracket	91931 L2070QQK *		1	N/A
Throttle Body Gasket	28411 2S000	N/A	1	N/A
Battery Harness	91855 L2541QQK *		1	Non-ISG (Has Red Tape)
	91855 L2551QQK *			With ISG (Has Blue Tape and Extra Connector)
Electrical Tape	N/A		As Needed	Locally Sourced

* **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.

* PartsEye will place replenishment orders based on the dealers' on-hand supply. Please refer to Parts bulletin PB [MI-25-08](#) for information related to Parts Eye Campaign ordering.



SUBJECT: SERVICE ACTION: BATTERY WIRING HARNESS COVERING INSPECTION/REPLACEMENT (SA645)

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	91855 L2551	0	(SA645) Battery Wiring Harness Covering Inspection (OK) + Bracket Installation (and taping, if needed)	260063R0*	0.5 M/H	91931 L2070QQK	1
			(SA645) Battery Wiring Harness Covering Inspection (NG) + Battery Wiring Harness Replacement	260063R1	1.3 M/H	91855 L2541QQK or 91855 L2551QQK	1
						28411 2S000	1

Note: When substitute transportation is provided, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense.

***A KVID photo of the battery harness 'OK' condition MUST be attached to the claim using KDS Tablet Warranty Claim Attachment Tab 'XX - Other' for labor op 260063R1. If needed, use sublet code 'X1' for labor op 260063R0 with a maximum allowed amount of \$0.90 per vehicle for electrical tape.**

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA645 when accessing the KDealer+ system.

