



GROUP
Safety Recall Campaign

MODEL
**2018MY
Stinger (CK)**

NUMBER
SC170 (Rev 2, 05/30/2019)

DATE
December 2018

SAFETY RECALL CAMPAIGN

SUBJECT: **FRONT WIRING HARNESS INSPECTION/REPLACEMENT
AND GROMMET INSTALLATION (SC170)**

*** 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 the procedure to inspect the Front Wiring Harness for damage to the wiring insulation on some 2018MY Kia Stinger vehicles produced from July 20, 2017 through June 8, 2018.

- If no damage is found, dealers are to install a grommet to cover the hole in the left fender apron panel.
- If wiring damage is found, dealers are to replace the front wiring harness and install a grommet to cover the hole in the left fender apron panel.

The Front Wiring Harness (“harness”) is located in the engine and passenger compartment of the vehicle. The harness can come in contact with a burr on the edge of a hole in the sheet metal of the left fender apron body panel. Such contact can damage the insulation of one or more wires and cause an electrical short circuit, increasing the risk of a fire.

Before conducting the procedure, verify the vehicle is included in the list of affected VINs.

*** NOTICE**

There is no charge to the vehicle owner for this repair. Under applicable law, you may not sell or otherwise deliver any affected vehicle until it has been repaired pursuant to the procedures set forth in this bulletin.

*** NOTICE**

To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service → Warranty Coverage → Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.

File Under: <Safety Recall Campaign>

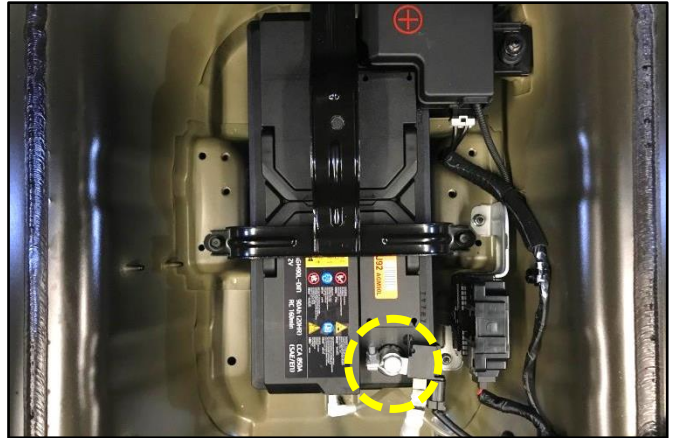
Circulate To: General Manager Service Manager Parts Manager
 Service Advisors Technicians Body Shop Manager Fleet Repair

SUBJECT:

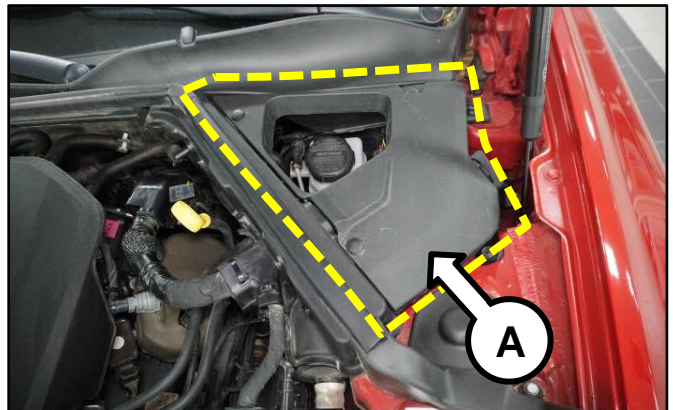
FRONT WIRING HARNESS INSPECTION/REPLACEMENT AND GROMMET INSTALLATION (SC170)

Inspection Procedure:

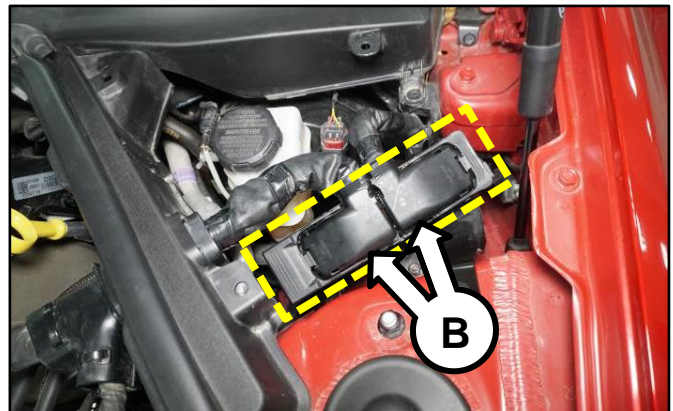
1. Record the customer's radio presets and then disconnect the negative "-" battery terminal.



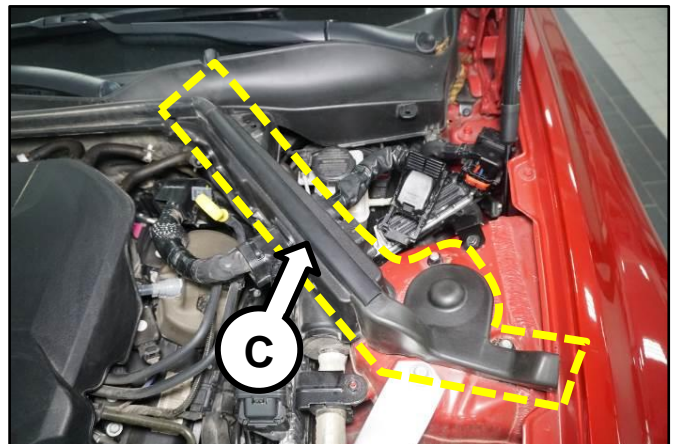
2. Remove the engine side cover (A).



3. Disconnect the two (2) ECU connectors (B).



4. Detach the hood seal (C).

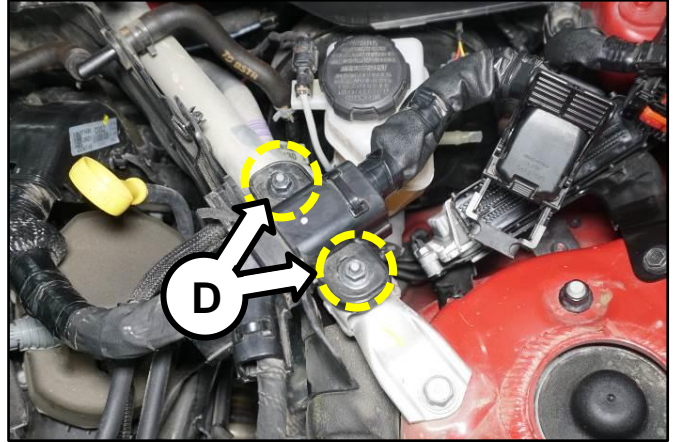


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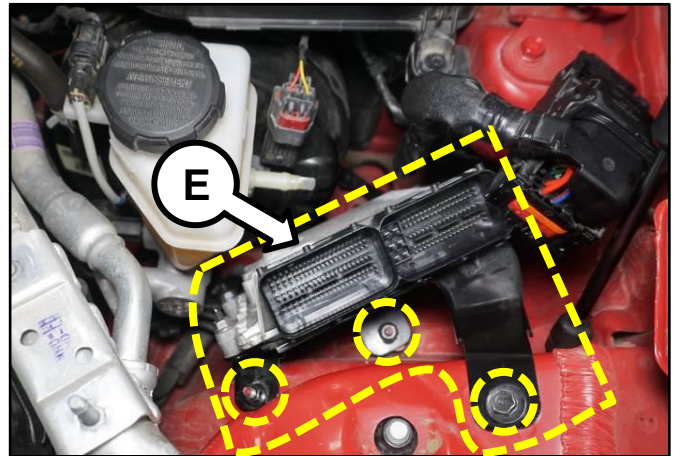
5. Remove the two (2) harness protector retaining nuts (D).

Tightening torque for nuts (D):
43.4 - 69.4 lb.in (4.9 - 7.8 Nm,
0.5 - 0.8 kgf.m)

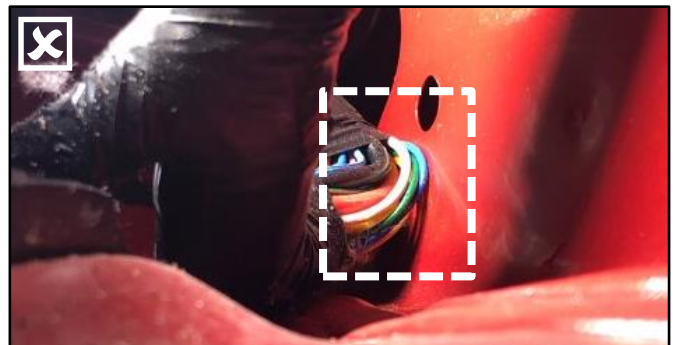


6. Remove the one (1) ECU bracket mounting bolt and two (2) bracket mounting nuts and then remove the ECU and bracket assembly (E).

Tightening torque (bolt and nuts):
7.2 - 8.7 lb.ft (9.8 - 11.8 Nm,
1.0 - 1.2 kgf.m)



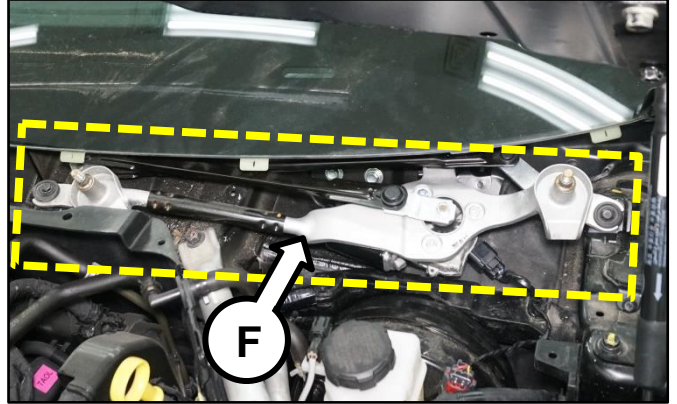
7. Visually inspect the harness for interference.
- If the harness is touching the left fender apron panel () , proceed to the next step.
 - If the harness is not touching the panel () , proceed to step 13 on page 5.



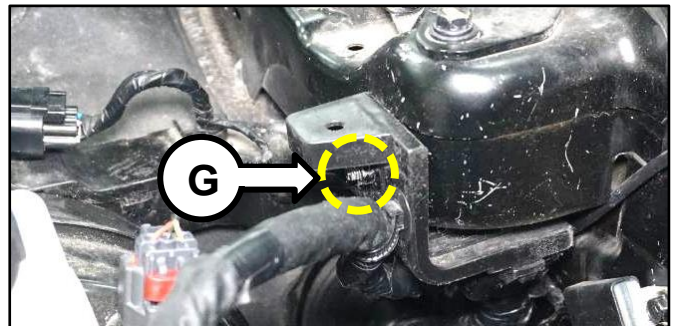
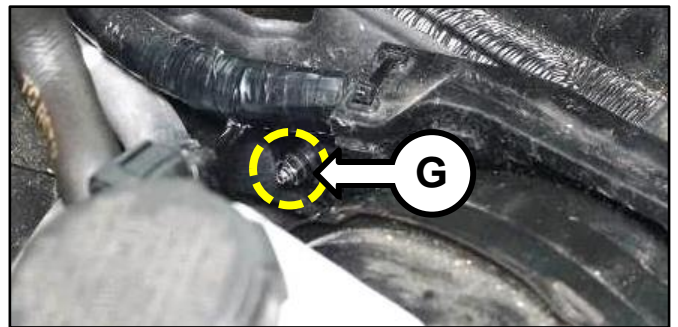
SUBJECT:

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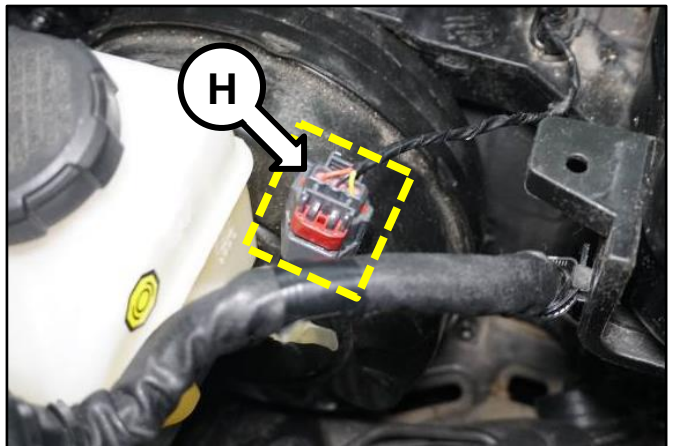
8. Remove the windshield wiper assembly (F) by referring to steps 2 through 5 of the “Body Electrical System → Windshield Wiper/Washer → Front Wiper Motor → Repair procedures” chapter in the applicable Shop Manual.



9. Remove the two (2) wire harness protector retaining nuts (G) located by the brake booster.



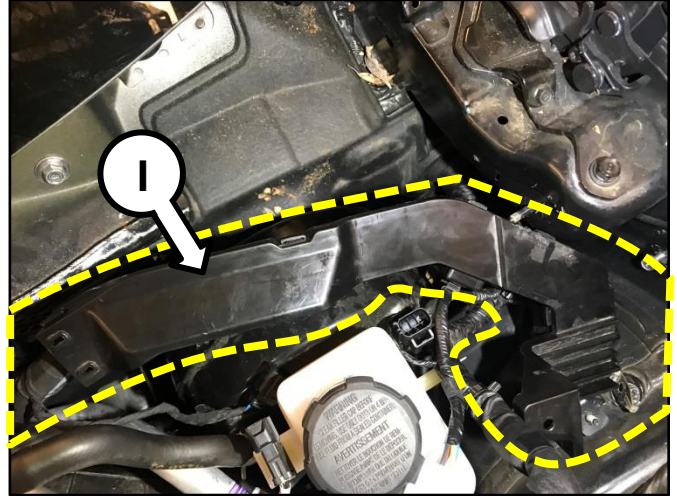
10. Disconnect the brake master cylinder connector (H).



SUBJECT:

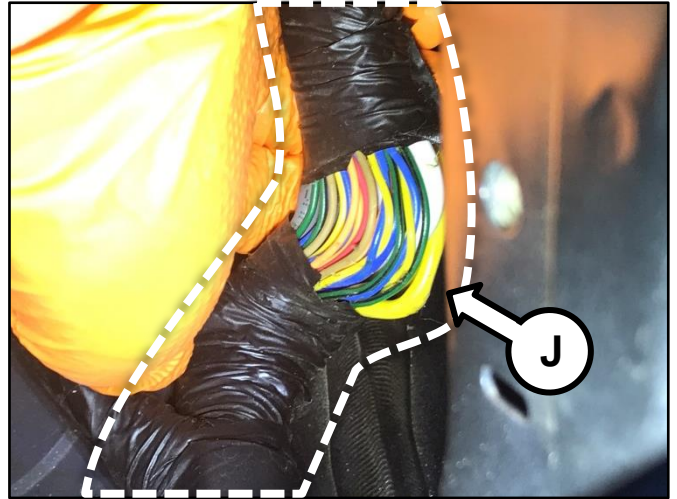
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11. Carefully move the harness and protector (I) away from the firewall enough to allow access to the lower area of the harness.

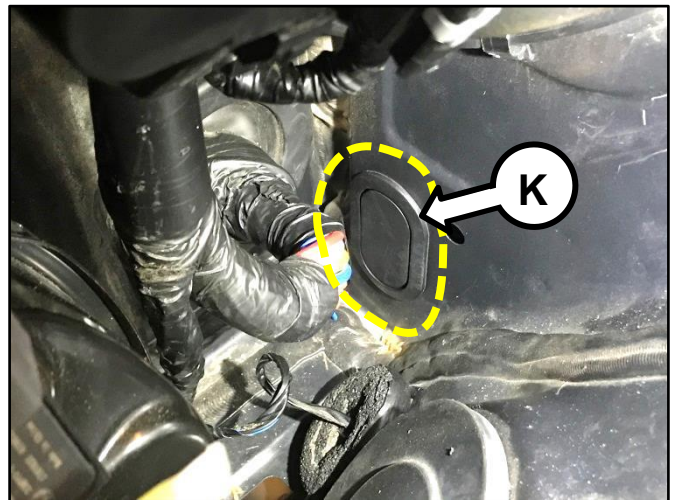


12. Reach behind the hood and into the well area to slightly pull up the harness. Thoroughly inspect the harness for any damage.

- If there is damage to the harness, open a Techline case online and **do not proceed** with claim submission until wire harness replacement approval or denial is determined. See page 6 for the Front Wiring Harness Replacement procedure.
- If there is no damage to the harness, proceed to the next step.



13. Install a rubber grommet at the opening (K) shown.



14. Reinstall all removed components in the reverse order of removal.
15. Verify proper operation of the vehicle and restore the customer's radio presets.

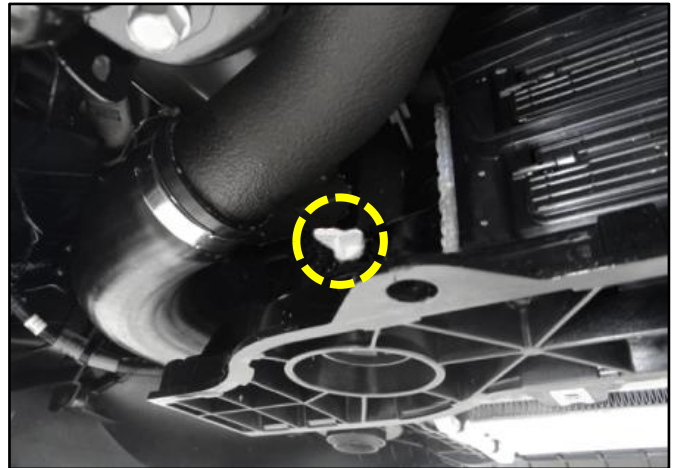
FRONT WIRING HARNESS INSPECTION/REPLACEMENT AND GROMMET INSTALLATION (SC170)

Front Wiring Harness Replacement Procedure:

★ IMPORTANT

Refer to the “Body Electrical System → General Information” chapter in the applicable Shop Manual on KGIS for important information on handling connectors, wires, and harnesses.

1. With the vehicle on a lift, remove the engine under cover and begin coolant drain.

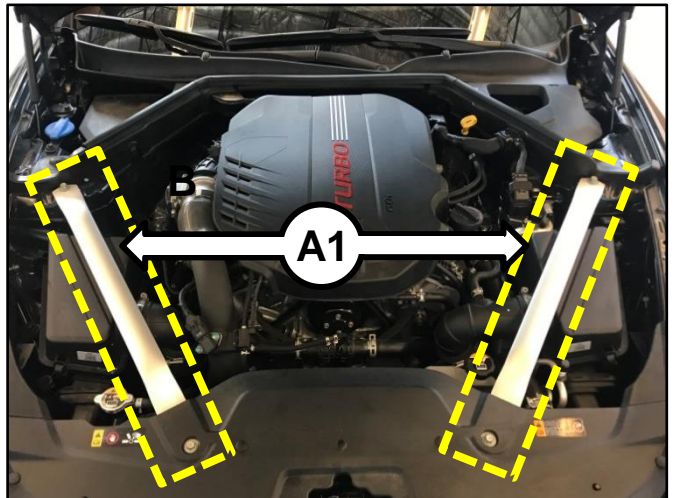


2. While draining the coolant with a small catch container underneath the vehicle, remove the two (2) strut bars (A1).

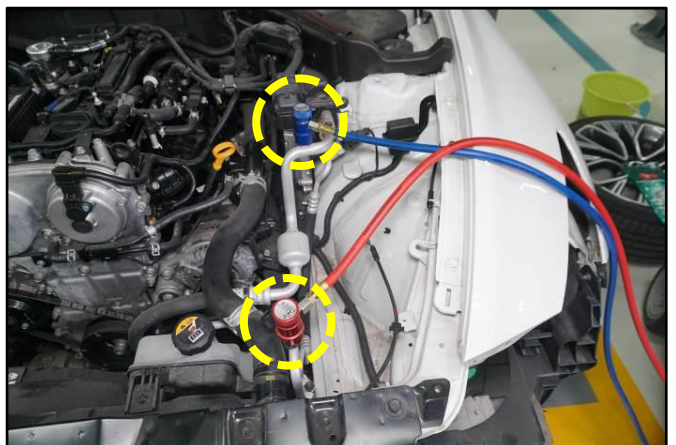
★ NOTICE

Be sure to close the drain plug when coolant drain is complete.

Tightening torque (strut bars):
34 – 45 lb.ft (46.4 – 60.8 N.m,
4.7 – 6.2 kgf.m)



3. Recover the AC refrigerant by referring to the “Heating, Ventilation, and Air Conditioning → Air Conditioning System → Repair procedures” chapter in the applicable Shop Manual on KGIS.



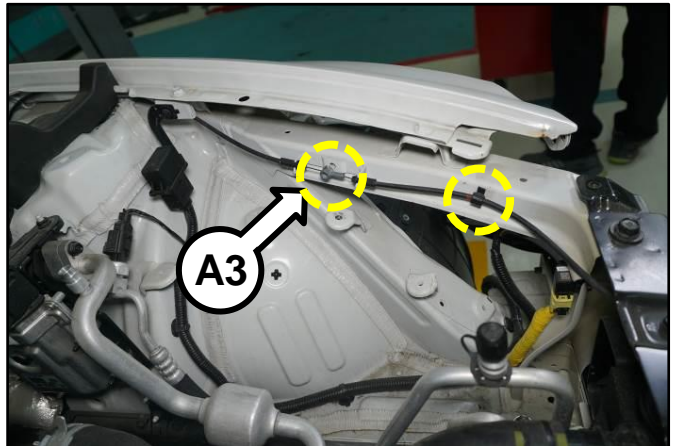
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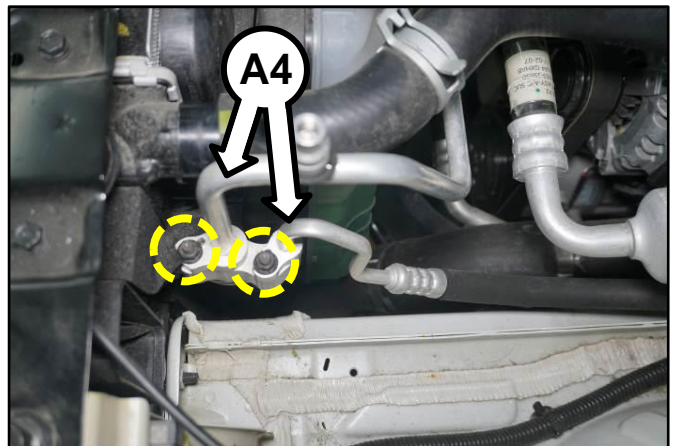
4. Remove the headlamps (A2) by referring to the “Body Electrical System → Lighting System → Headlamps → Repair procedures” chapter in the applicable Shop Manual on KGIS.



5. Separate the hood latch cable at the cable joint (A3) and detach the cable retaining clip.



6. Remove the two (2) air conditioning pipe (high pressure and a/c pressure transducer) retaining nuts and detach the two pipes (A4).

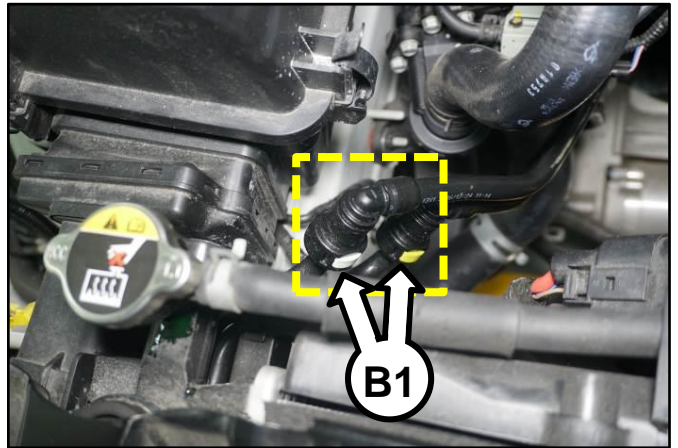


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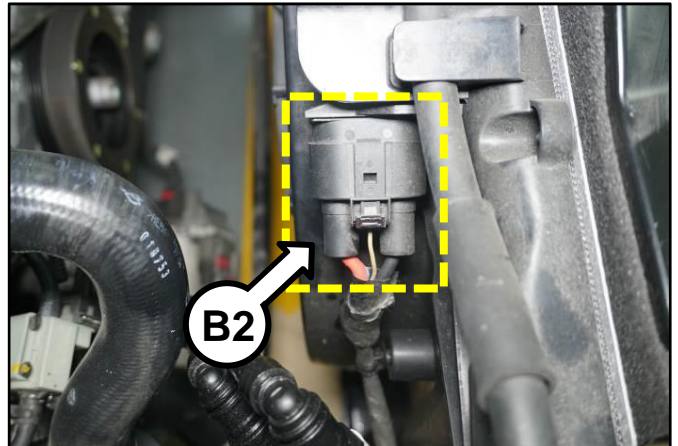
7. Detach the upper and lower radiator hoses from the radiator.



8. Detach the transmission oil cooler inlet and outlet pipes (B1) from the transmission cooler.



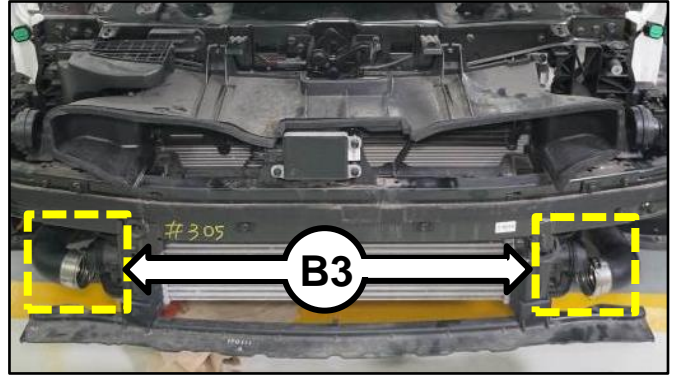
9. Disconnect the cooling fan connector (B2).



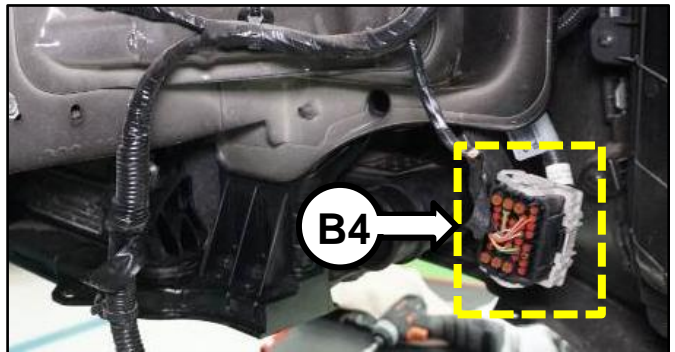
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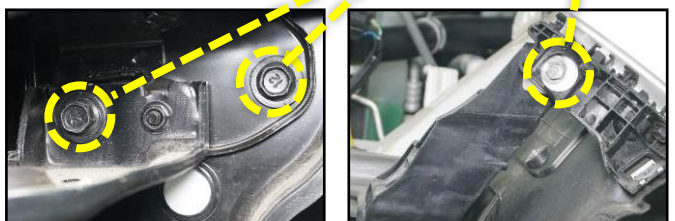
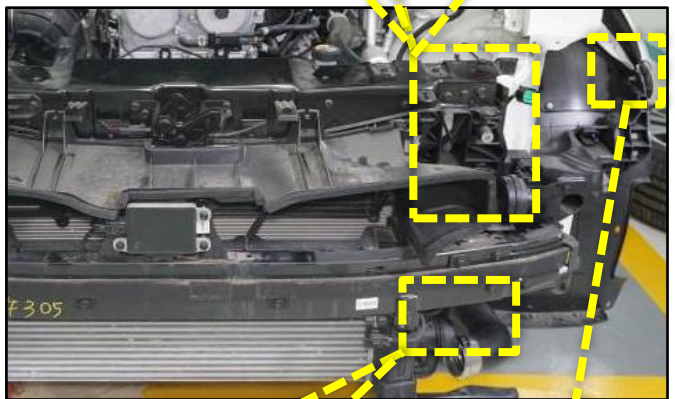
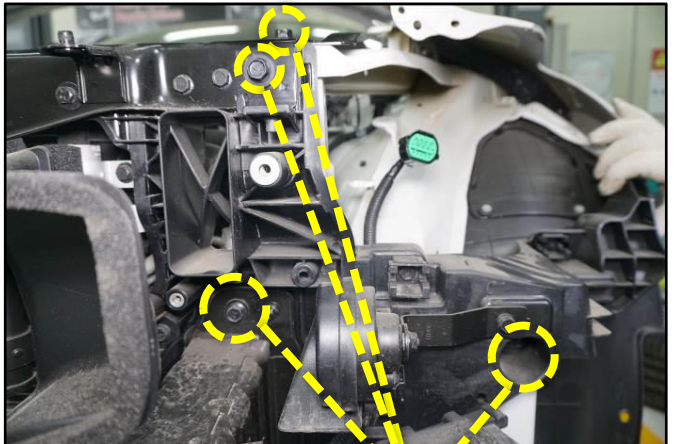
10. Detach the intercooler inlet and outlet hoses (B3).



11. Disconnect the front end module connector (B4).



12. Remove the seven (7) front end module carrier retaining bolts on each side of the carrier and remove the front end module carrier.



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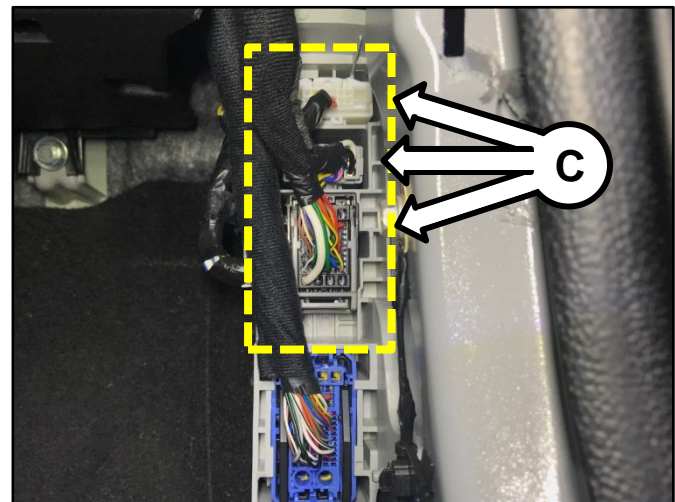
- 13. Remove the engine and transmission assembly (A) by referring to the “Engine Mechanical System → Engine and Transmission Assembly → Engine and Transmission Assembly → Repair procedures” chapter in the applicable Shop Manual on KGIS.



- 14. Remove the glove box assembly (B) by referring to the “Body (Interior and Exterior) → Crash Pad → Glove Box Housing → Repair procedures” chapter in the Shop Manual on KGIS.



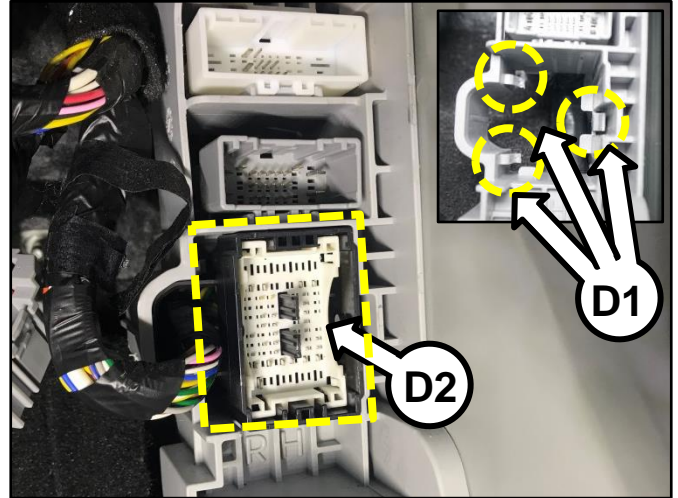
- 15. Disconnect the three upper connectors (C) at the floor harness joint housing located at the front passenger footwell.



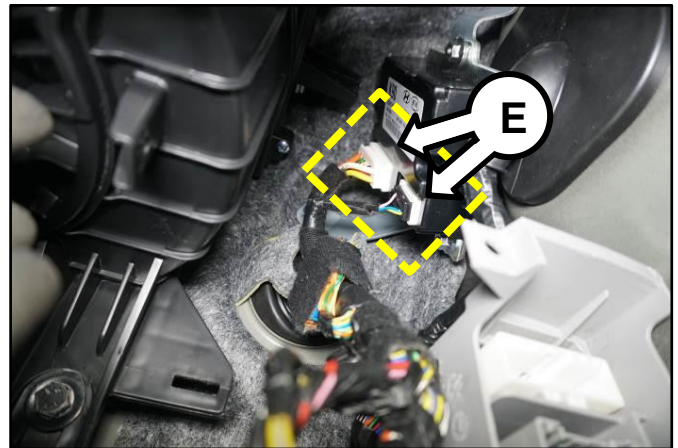
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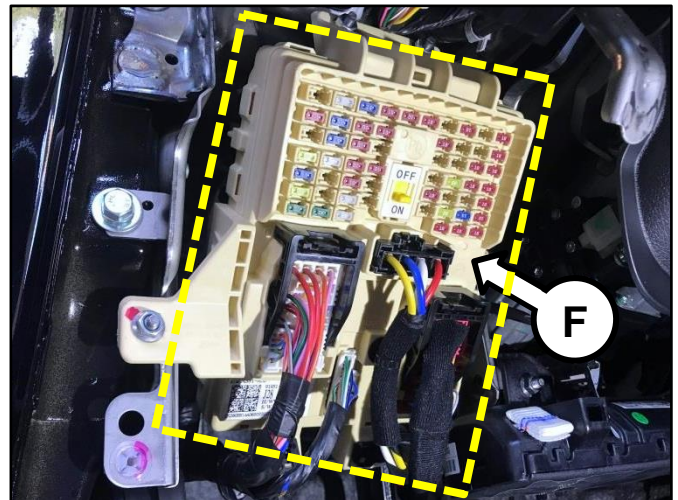
16. Carefully release the three (3) locking tabs (D1) and remove the connector (D2).



17. Disconnect the two (2) connectors (E) at the Electric Oil Pump Inverter, located above the front passenger foot well floor harness joint housing.



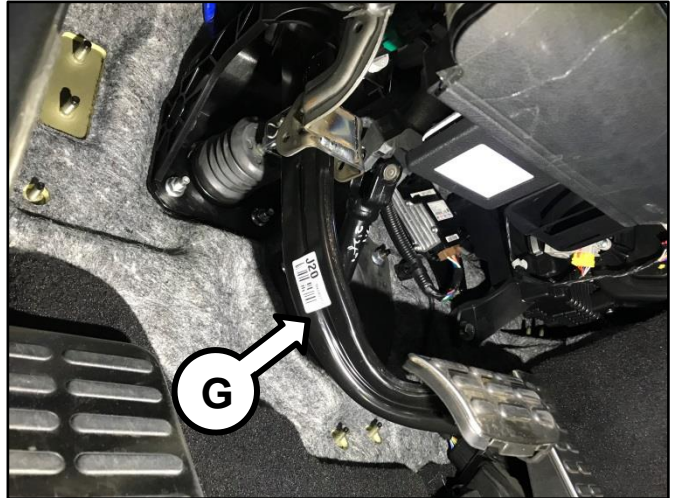
18. Remove the Integrated Central Control Unit (ICU) (F) by referring to the “Body Electrical System → Fuses And Relays → Relay Box (Passenger Compartment) → Repair procedures” chapter in the applicable Shop Manual on KGIS.



SUBJECT:

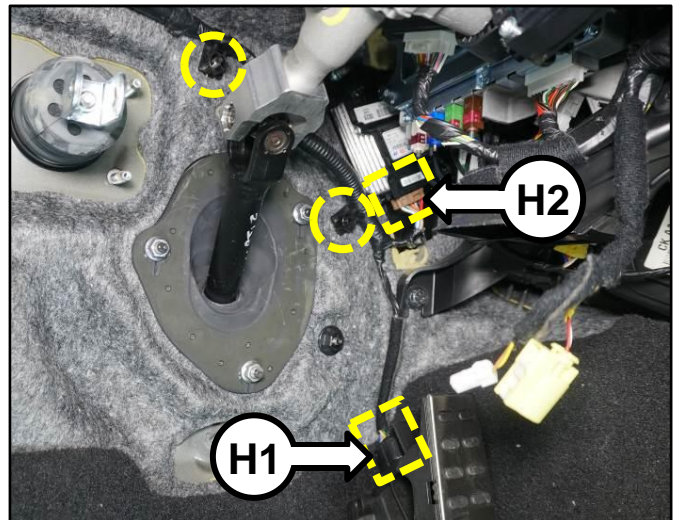
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19. Refer to the “Brake System → Brake System → Brake Pedal → Repair procedures” chapter in the applicable Shop Manual on KGIS to partially remove the brake pedal assembly (G) enough to remove the wiring harness past the brake pedal assembly.

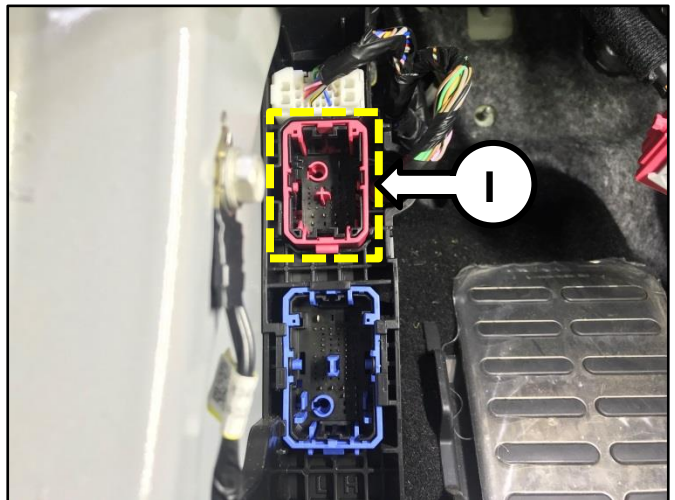


20. Disconnect the Accelerator Pedal Position Sensor (H1) and if equipped, disconnect the AWD ECU connector (H2). Detach the harness retaining clips.

Note: The brake pedal assembly was completely removed for demonstration of wiring harness routing only. Complete removal of the brake pedal assembly is not necessary.



21. Remove the center connector (I) from the floor harness joint housing located at the driver footwell.



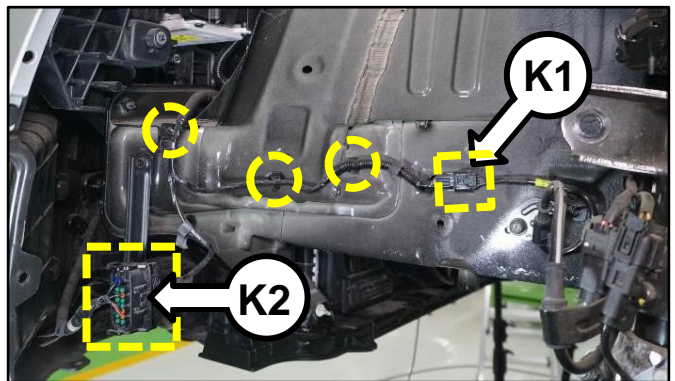
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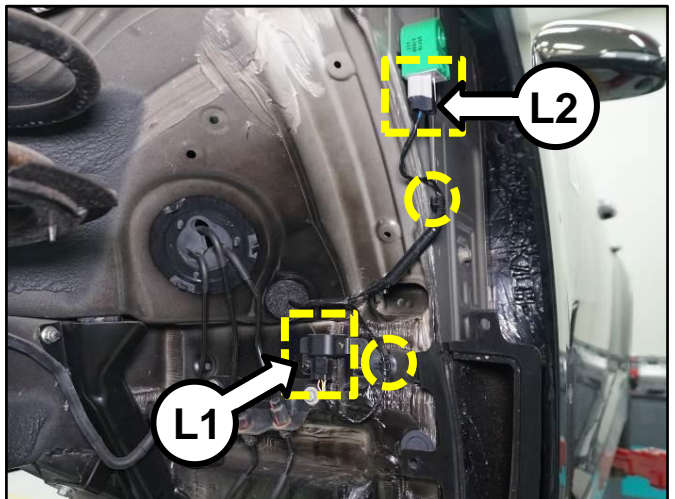
22. Remove both front fender liners (wheel guards) (J).



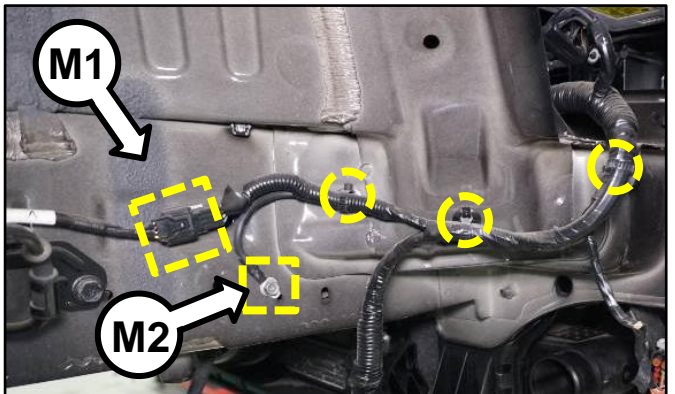
23. Disconnect the left front wheel speed sensor (K1) and extension harness (K2) and detach the wiring harness retaining clips.



24. Disconnect the external buzzer connector (L1) and, if equipped, disconnect the left front electronic control suspension (ECS) G-sensor connector (L2). Detach the wiring harness retaining clips.



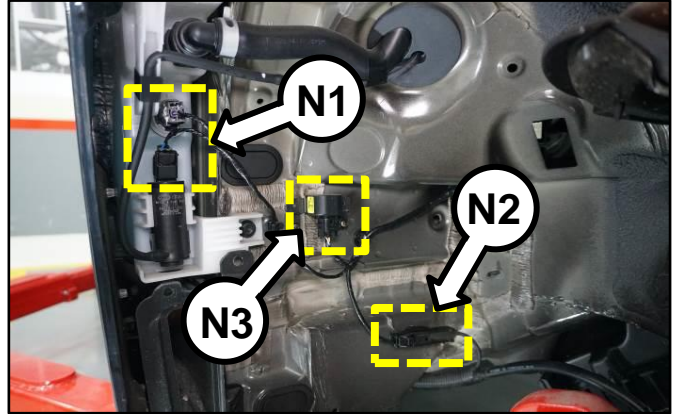
25. Disconnect the right front wheel speed sensor (M1) and ground (M2). Detach the wiring harness retaining clips.



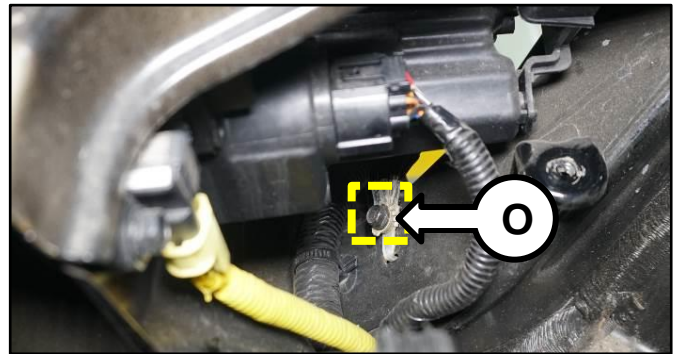
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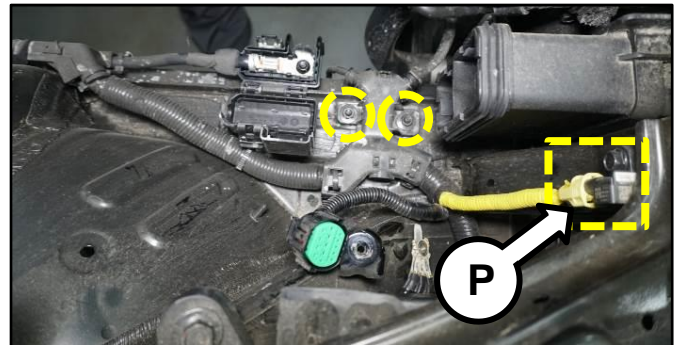
26. Disconnect the washer motor and level sensor connectors (N1), battery harness connector (N2), and, if equipped, the right front ECS connector (N3). Detach the wiring harness retaining clips.



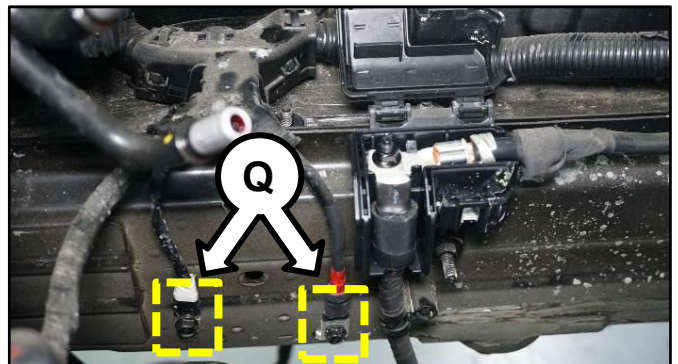
27. Remove the ground retaining nut and disconnect the ground (O).



28. Disconnect the front passenger impact sensor connector (P). Detach the wiring harness retaining clips.



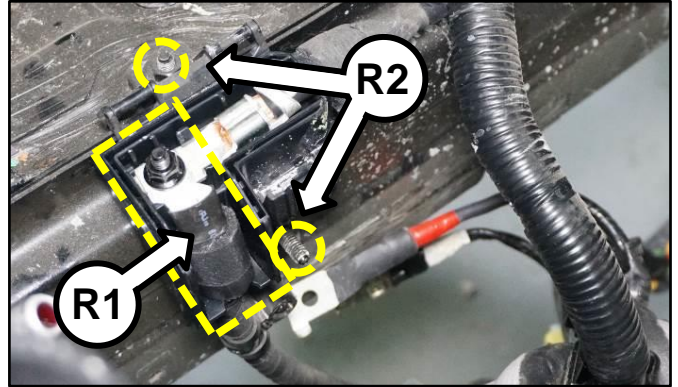
29. Remove the two (2) ground retaining bolts and disconnect the two (2) ground cables (Q).



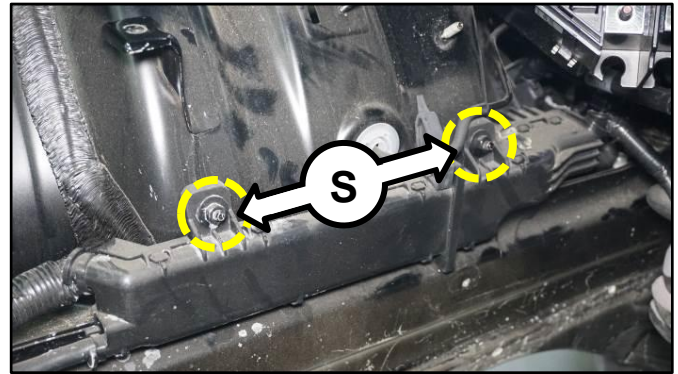
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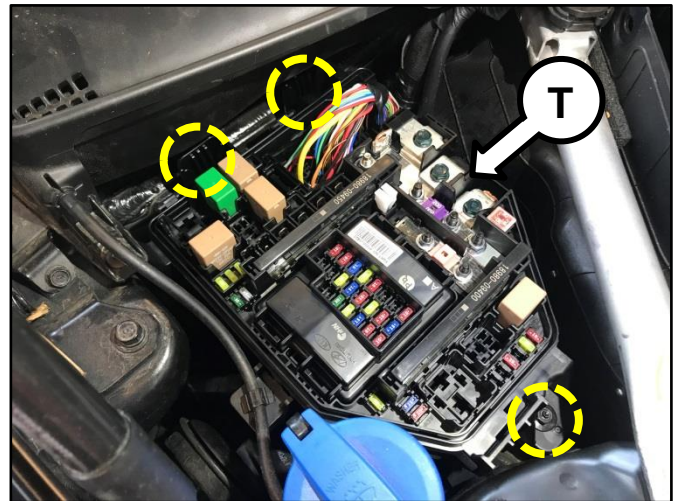
30. If not already performed, disconnect the battery cable (R1) and then remove the two (2) battery junction block retaining nuts (R2).



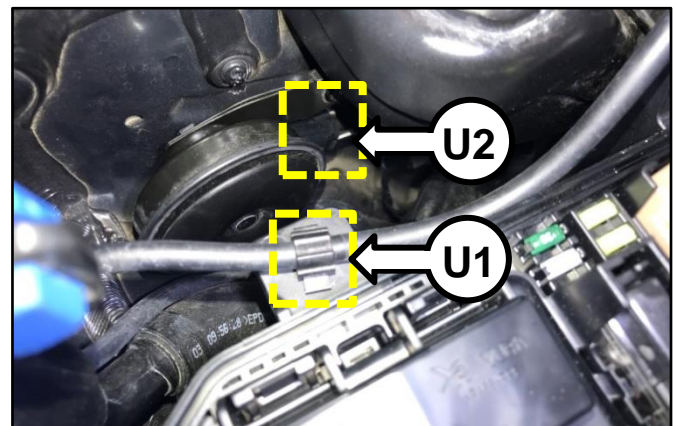
31. Remove the two (2) wiring harness protector retaining nuts (S).



32. Remove the three (3) junction box retaining bolts for removal of the junction box (T).



33. Detach the washer nozzle clip (U1) from the junction box (T) and then disconnect the horn connector (U2).



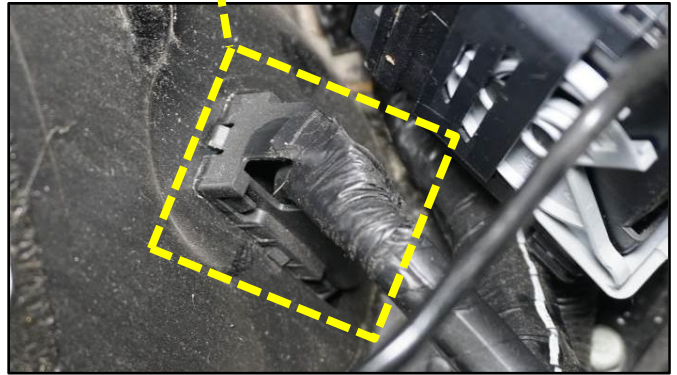
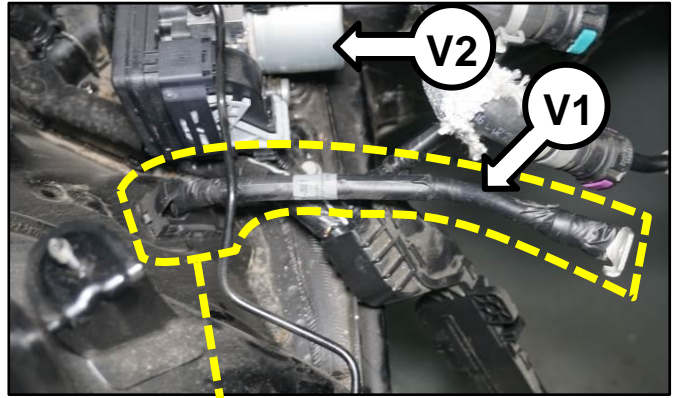
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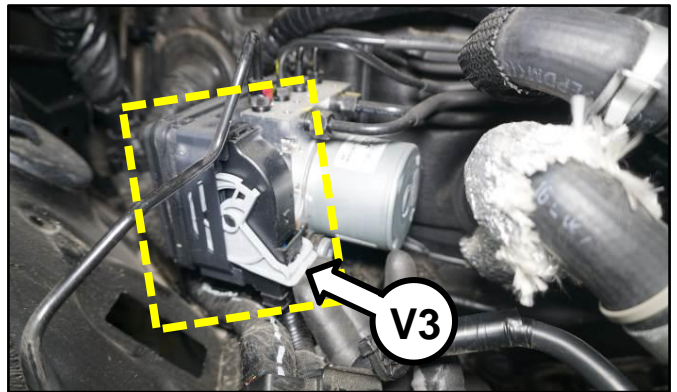
34. Remove the two (2) wiring harness protector retaining nuts.



35. Remove the ground cable and grommet (V1) located next to the Electronic Stability Control (ESC) module (V2).



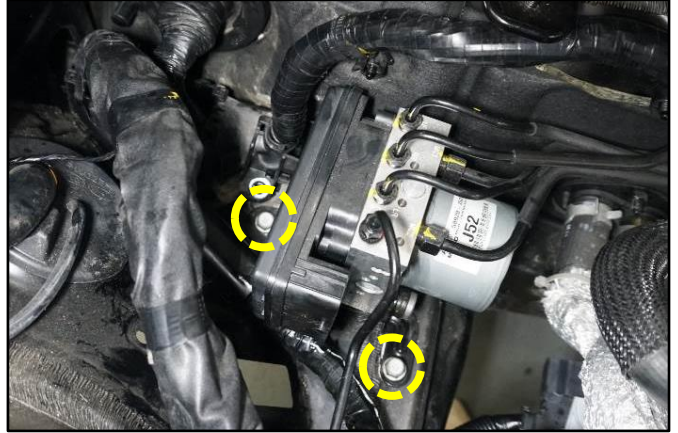
36. Disconnect the ESC connector (V3).



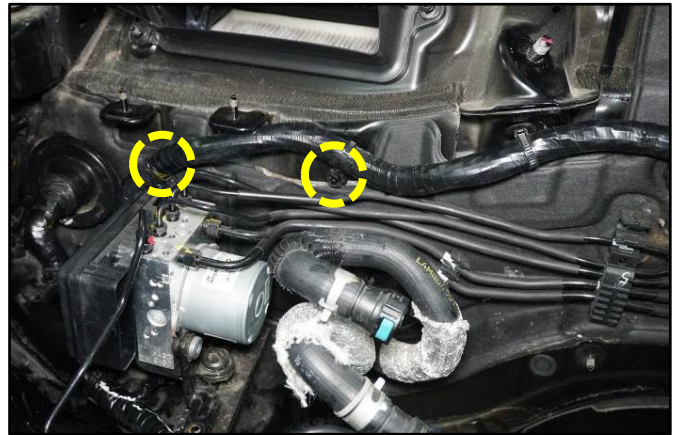
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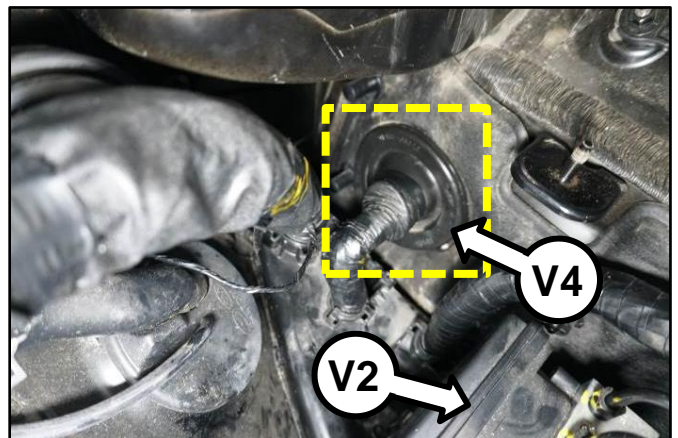
37. Remove the two (2) ESC module retaining bolts.



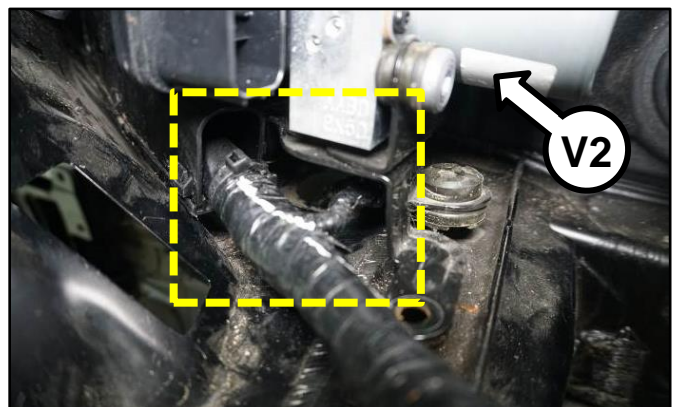
38. Detach the two (2) wiring harness retaining clips.



39. Detach the grommet (V4) from the firewall, located behind the ESC module (V2) and pull out connector (D2) removed in step 4 of this procedure.

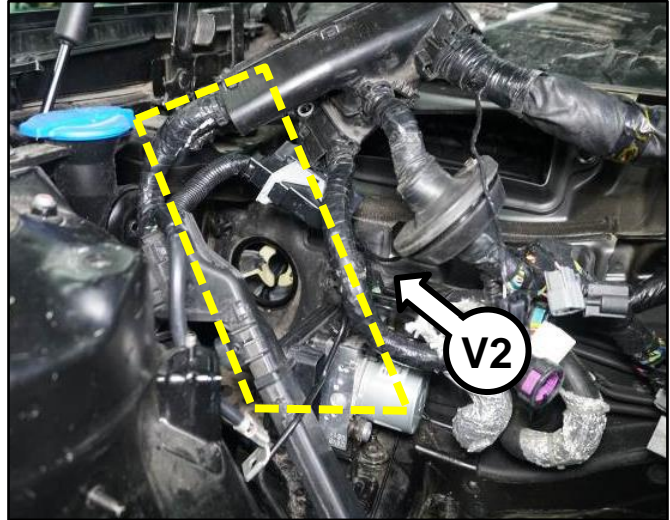


40. Remove the wiring harness from underneath the ESC module (V2).

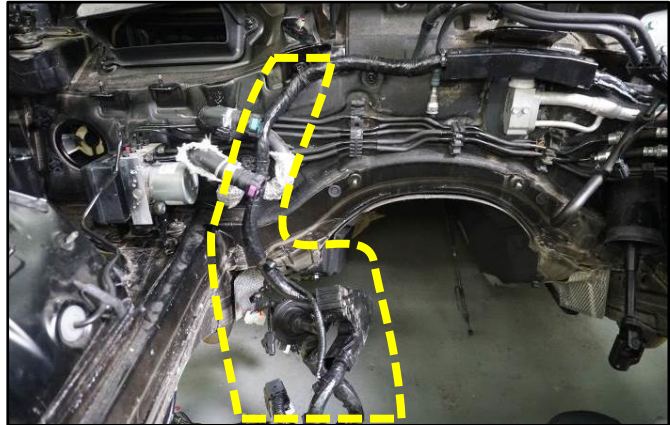


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- 41. Remove the protected section of the wiring harness between the ESC module and hardline.



- 42. Complete the passenger side of the front wiring harness removal.



- 43. Detach the two (2) wiring harness protector retaining clips above the heater exchange valve.

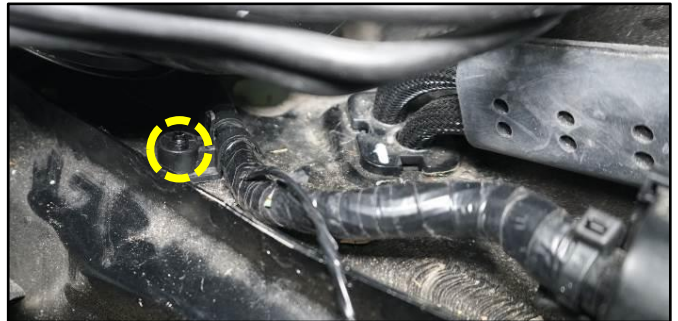


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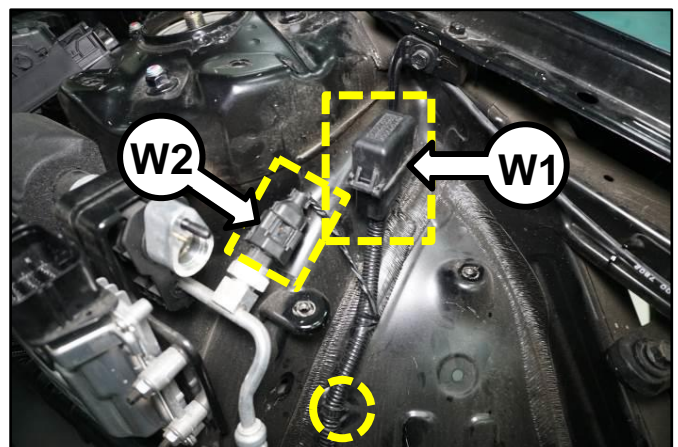
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45. Ensure the wiring harness retaining clips are detached from above the brake booster and the wiper motor and master cylinder connectors have been removed.

Trace the wiring harness and detach all wiring harness retaining clips.



46. Detach the Multipurpose Check connector (W1) from the vehicle and disconnect the A/C Pressure Transducer connector (W2). Detach the wiring harness retaining clip.



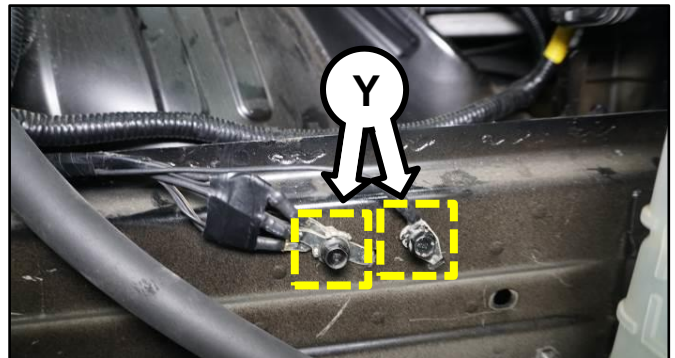
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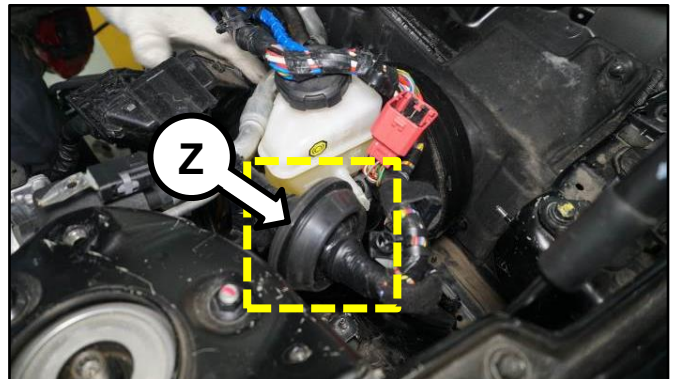
47. Disconnect the left front impact sensor connector (X).



48. Remove the two (2) ground retaining nuts and disconnect the two (2) ground cables (Y).

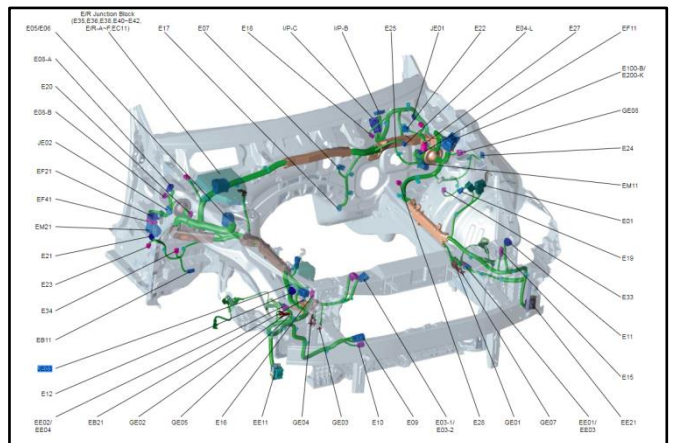


49. Remove the grommet (Z) located by the left fender apron and completely remove the rest of the front wiring harness between the brake booster and lines.



50. Install the new front wiring harness, ensuring proper routing of harness and secured connections at all connectors.

Refer to the “Harness Layout → Front Harness → Schematic Diagrams” chapter in the applicable ETM Manual on KGIS for details.



51. Verify proper operation of the vehicle and erase any stored DTCs (e.g., EPS, ESC, and TPMS) that may have been set by this procedure. Verify no leaks exist and ensure engine oil and coolant are at their proper level. If any DTCs are still active, follow any related diagnosis and repair as needed.

SUBJECT:

FRONT WIRING HARNESS INSPECTION/REPLACEMENT AND GROMMET INSTALLATION (SC170)

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	64501 J5000	0	(SC170) Front Wiring Inspection & Grommet Installation	181144R0	0.3 M/H	84253 B1000QQK	1
R	64501 J5000	0	(SC170) Wiper Assembly R&R, Front Wiring Inspection & Grommet Installation	181144R1	0.6 M/H	84253 B1000QQK	1
R	64501 J5000	0	(SC170) <u>2.0T</u> Wiper Assembly R&R, Front Wiring Inspection, & Wire Harness R&R (Techline Approval Required)	181144R2	7.2 M/H	84253 B1000QQK	1
						91215 J5550QQK	1
						91215 J5560QQK	
						91215 J5670QQK	
						91215 J5680QQK	
						91215 J5730QQK	
						91215 J5740QQK	
			91215 J5750QQK				
			91215 J5760QQK				
			(SC170) <u>3.3TT</u> Wiper Assembly R&R, Front Wiring Inspection, & Wire Harness R&R (Techline Approval Required)	181144R3	8.7 M/H	84253 B1000QQK	1
						91219 J5060QQK	1
						91219 J5070QQK	
						91219 J5100QQK	
						91219 J5110QQK	
91219 J5120QQK							
91219 J5130QQK							
91219 J5140QQK							
91219 J5150QQK							
91219 J5160QQK							
91219 J5170QQK							
912E0 J5020QQK							

Notes:

If damage to the wire harness is found, please do not proceed with claim submission until the wire harness R&R approval or denial is determined by Techline. This is to avoid prematurely submitting for the rubber grommet installation only and losing the ability to claim for the wire harness R&R.

If necessary, enter sublet code 'X2' for rental expense reimbursement.

*** NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC170 when accessing the WebDCS system.