



GROUP	MODEL
Service Campaign	2022-2023MY Multiple Models Listed
NUMBER	DATE
SC252 (Rev 1, 01/04/2023)	December 2022

VOLUNTARY SERVICE CAMPAIGN

HECU INSPECTION /REPLACEMENT (SC252A/B/C)

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 Hydraulic Electronic Control Unit (HECU) on certain K5 (DL3a), Telluride (ON) and Sorento (MQ4a) vehicles produced on the dates shown in Table below. The HECU in the subject vehicles may have been produced with a condition that can result in an internal brake fluid leak. If an internal brake fluid leak occurs, the Electronic Parking Brake (EPB) light, Anti-Lock Brake System (ABS) light, Electronic Stability Control (ESC) light, Auto-Hold light and/or Forward Collision-Avoidance Assist (FCA) light may illuminate, or a Smart Cruise Control (SCC) warning message may appear on the instrument cluster. If this occurs, EPB, ESC and Auto-Hold functions may be disabled. Follow the procedure outlined in the publication to inspect and, if necessary, replace the HECU. Before conducting the procedure, verify that the vehicle is included in the VIN List affected.

Campaign#	MY	Model	HECU	Production Dates
SC252 <u>A</u>	22MY	Sorento (MQ4a)	ESC	12/8/2021 to 5/23/2022
SC252 <u>B</u>			ESCI, ESCI+	
SC252 <u>C</u>	22MY	Telluride (ON)	ESCI+	11/29/2021 to 9/1/2022
	22-23MY	K5 (DL3a)	ESCI	12/7/2021 to 9/12/2022

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.

ⓘ IMPORTANT

This test procedure must be performed with the ignition 'OFF'. (DO NOT 'START' the engine at any time during the test procedure)

- Use the SST Multimeter to measure the parasitic current draw only (Do not use for any other purposes). Ensure the SST has a good 9V battery installed.
- Parasitic draw must be measured for at least 15 seconds, in order to record a constant value.

Setting the SST Multimeter:

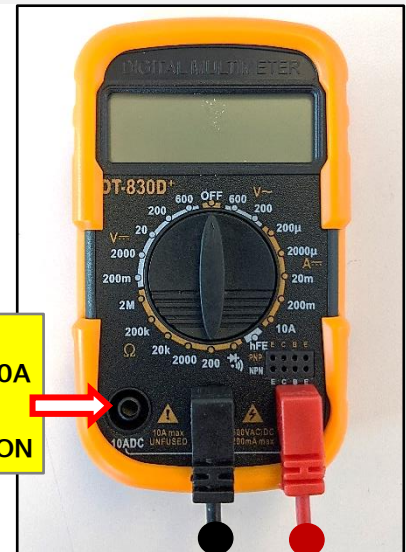
1. Connect two (2) lead wires (red and black) to the SST.

Black Ground (-) lead wire; connect to COM

Positive (+) lead wire; connect to VΩmA.



DO NOT USE THIS 10A PORT CONNECTION



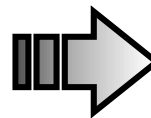
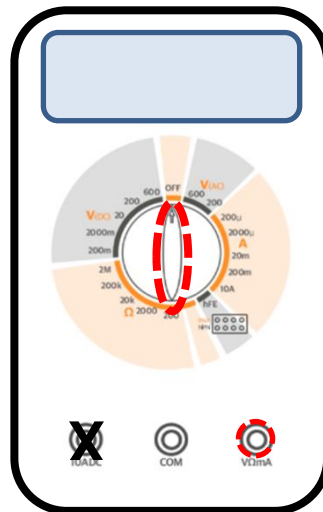
Connect (GND)

Connect (+)

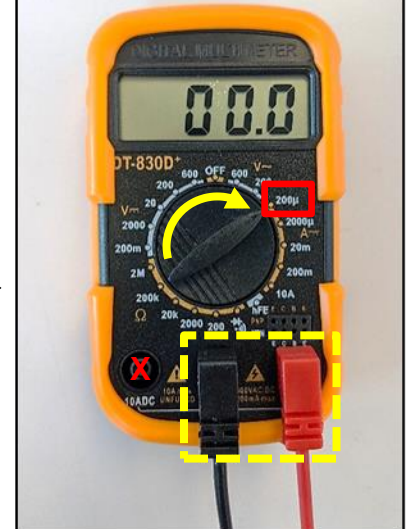
2. Turn the selection knob to the right and set it to **200uA**.

Reading Microamps:

Meter Setting	Displayed Value
200uA	0 - 200
2000uA	DO NOT USE
10A	DO NOT USE



Select 200μ setting (Microamps)



SUBJECT:

HECU INSPECTION/REPLACEMENT (SC252A/B/C)

Inspection Procedure:

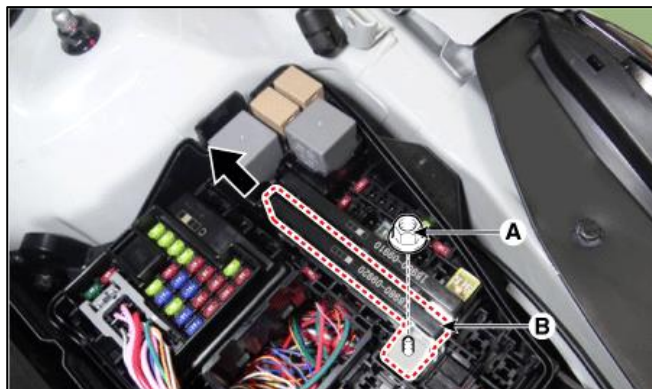
- 1a. Open the hood and disconnect the negative (-) battery terminal.
- 1b. Remove the engine room junction block/fuse cover.

❶ IMPORTANT

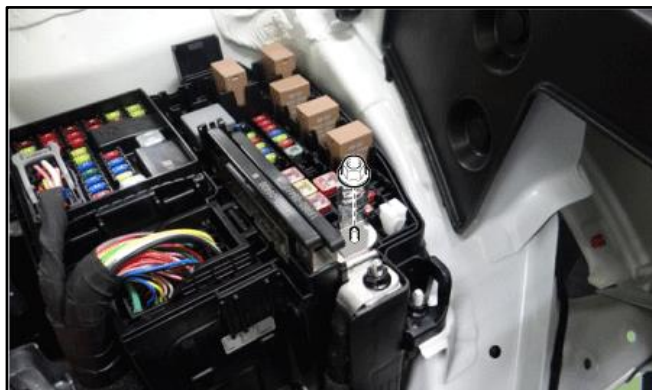
Refer to the Campaign Type and Specifications table on page 5.

2. Locate the Multi Fuse and remove the 10mm Multi Fuse retaining nut and remove the Multi Fuse.

- ABS for K5 (DL3a)



- ABS for Sorento (MQ4a)



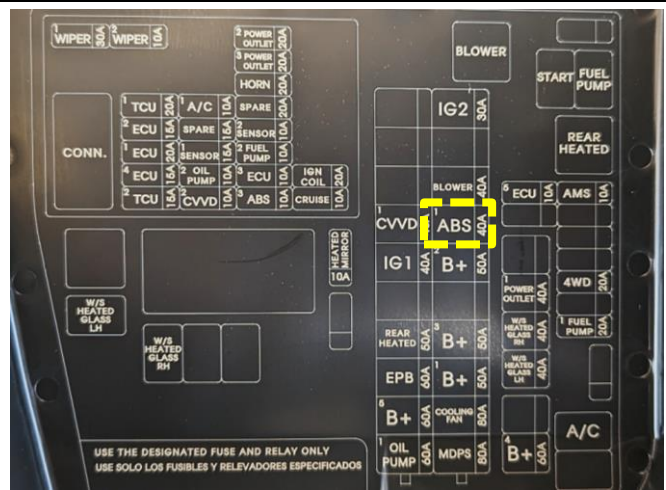
- ESC for Telluride (ON)



SUBJECT:

HECU INSPECTION/REPLACEMENT (SC252A/B/C)

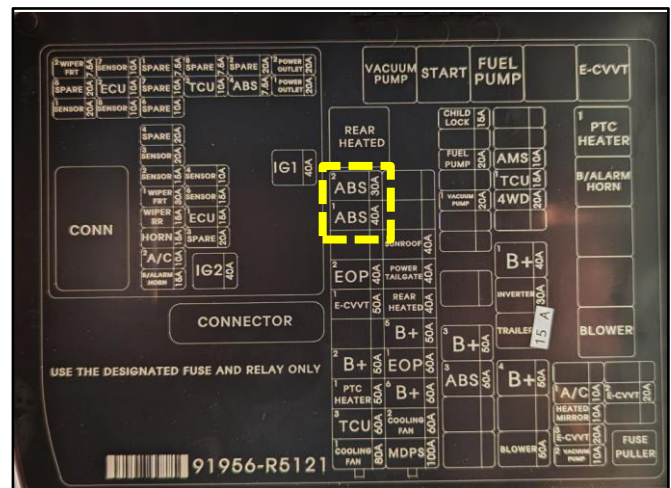
3. Reconnect the negative (-) battery terminal.
4. Using the two (2) SST Multimeter jumper leads, carefully contact the **'black'** lead to the applicable **'ESC or ABS'** fuse terminal (*per the applicable model and reference from table on page 5*) and the **'red'** lead to the fuse box **'Positive'** [+] post.



ABS for K5 (DL3a)

Measure the Multimeter value/reading for at least 15 seconds.

Note: The current draw value must stay constant.

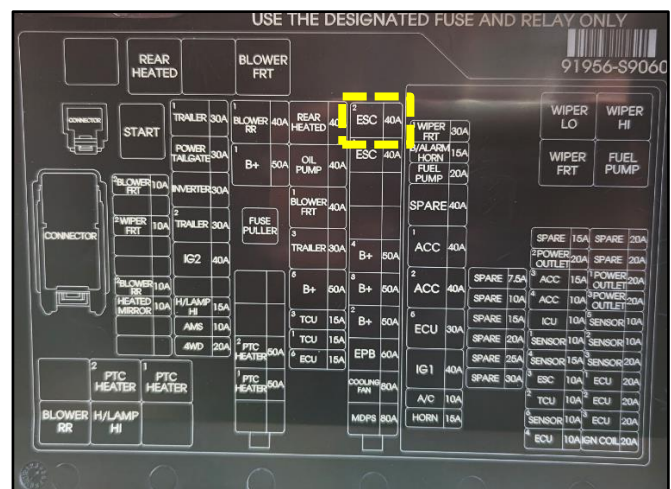


ABS for Sorento (MQ4a)

CAUTION

DO NOT damage the terminals.

Continue to page 5.



ESC for Telluride (ON)



SUBJECT:

HECU INSPECTION/REPLACEMENT (SC252A/B/C)

- 5a. If current draw value is BELOW (the Max. Dark Current Value Allowed) listed on the table below, reinstall the removed parts in the reverse order of removal. No further action required.

- 5b. If current draw value is OVER (the Max. Dark Current Value Allowed) listed on the table below, open a Techline case and attach a picture of the meter reading for review prior to part order. All part orders are on manual allocation.

- 5c. Replace the Hydraulic Electronic Control unit (HECU*) by referring to the “Brake System → ESC (Electronic Stability Control) System → ESC Control Module → Repair procedures” chapter in the applicable Shop Manual on KGIS.



*Refer to EPC OE variant for the applicable HECU Assy required and match to replacement QJK P/N on page 6.

NOTICE

All parts replaced are subject to return to the Warranty Parts Return Center (WPRC) for verification of the reported parasitic draw.

Model	Campaign VINs	HECU Type	Max. Dark Current Value Allowed	Fuse Measurement Point
(MQ4a)	SC252A	ESC	80 μ A	30A (ABS ₂)
	SC252B	ESCI, ESCI+ (EVP)	130 μ A	40A (ABS ₁)
(DL3a)	SC252C	ESCI, ESCI+	95 μ A	40A (ABS ₁)
(ON)	SC252C	ESCI+	95 μ A	40A (ESC ₂)





SUBJECT:

HECU INSPECTION/REPLACEMENT (SC252A/B/C)

AFFECTED VEHICLE RANGE:

Model	Production Date Range
Sorento (MQ4a)	December 8, 2021 to May 23, 2022
Telluride (ON)	November 29, 2021 to September 1, 2022
K5 (DL3a)	December 7, 2021 to September 12, 2022

REQUIRED TOOL:

Tool Name	Figure		Comments
Multimeter DT-830D		SC197Meter	Only one (1) multimeter set was auto shipped to each dealer by MPA, P/N: KQ589 4C100QQK. <u>Additional warrantable concerns will be handled by Snap-On Business Solutions*.</u>
		SC197Leads	

*Call Snap-on Business Solutions at (888) 542-1011 for lead replacements or defective meter.

REQUIRED PART:

Model	Part Name	Part Number	Max. Dark Current Value Allowed	Fuse Measurement Point	Qty.
(DL3a)	HECU Assy ESCI	58910 L3100QQK	95 μ A (C)	40A (ABS ₁)	1
	HECU Assy ESCI+	58910 L3200QQK			
	HECU Assy ESCI+	58910 L3600QQK			
	HECU Assy ESCI (AWD)	58910 L3700QQK			
	HECU Assy ESCI+ (AWD)	58910 L3800QQK			
(MQ4a)	HECU Assy ESC	58910 R5100QQK	80 μ A (A)	30A (ABS ₂)	1
	HECU Assy ESCI (EVP)	58910 R5500QQK	130 μ A (B)	40A (ABS ₁)	1
	HECU Assy ESCI+ (EVP)	58910 R5600QQK			
(ON)	HECU Assy ESCI+ (w/BCA, RCCA)	58910 S9320QQK	95 μ A (C)	40A (ESC ₂)	1
	HECU Assy ESCI+ (w/o BCA, RCCA)	58910 S9360QQK			
ALL	Brake Fluid	UM010 CH043	N/A		2

When ordering the QQK variant of the HECU listed on this TSB, reference the EPC for the OE part variant applied to the vehicle and order the corresponding QQK part number. Example 58910 S9360 -- 58910 S9360QQK.

SUBJECT:

HECU INSPECTION/REPLACEMENT (SC252A/B/C)**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.
MQ4a (ESC ESCI, ESCI+)	R	58910 R5100	0	(SC252A) HECU Inspection	220A2810	0.3 M/H	N/A	0
				(SC252A) HECU Inspection and Replacement	220A28R0	1.3 M/H	58910 R5100QQK	1
							UM010 CH043	2
MQ4a (ESC ESCI, ESCI+)	R	58910 R5600	0	(SC252B) HECU Inspection	220A2910	0.3 M/H	N/A	0
				(SC252B) HECU Inspection and Replacement	220A29R0	1.3 M/H	58910 R5500QQK or 58910 R5600QQK	1
							UM010 CH043	2
DL3a (ESC ESCI, ESCI+)	R	58910 L3100	0	(SC252C) HECU Inspection	220A3010	0.3 M/H	N/A	0
				(SC252C) HECU Inspection and Replacement	220A30R0	1.3 M/H	Refer to Table on Page 6	1
							UM010 CH043	2
ON (ESCI+)	R	58910 S9360	0	(SC252C) HECU Inspection	220A3011	0.3 M/H	N/A	0
				(SC252C) HECU Inspection and Replacement	220A30R1	1.7 M/H	58910-S9320QQK or 58910-S9360QQK	1
							UM010 CH043	2

Note: Refer to Warranty Bulletin 2022-45 for claim submission procedures. Attach a photo of the "OVER" Dark Current Value meter rearding to the claim using Attachment Type; "XX-Other" for HECU replacement.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC252 when accessing the WebDCS system.

