

GROUP	MODEL
Safety Recall Campaign	2021-2023MY Soul (SK3) <u>and</u> Seltos (SP2) w/2.0L Nu MPI Engine
NUMBER	DATE
SC336 (Rev 3, 05/07/2025)	April 2025

SAFETY RECALL CAMPAIGN

SUBJECT:

ENGINE INSPECTION/REPLACEMENT AND ECM LOGIC IMPROVEMENT (SC336)

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.

IMPORTANT: The Hold Notice issued on 4/30/2025 is no longer in effect with the publication of this TSB.

This bulletin provides information 1) to perform an engine vibration inspection and,— if necessary, replace the engine long block, and 2) to install the Piston Ring Noise Sensing System software in the Engine Control Module (ECM) on certain 2021-2023MY Soul (SK3) produced from July 2, 2020 through April 19, 2022 and certain 2021-2023MY Seltos (SP2) produced from July 2, 2020 through July 1, 2022 vehicles equipped with 2.0L Nu MPI (Atkinson) Engine. The piston oil ring(s) in the subject vehicles may, over time, damage the surface of the engine cylinder wall. This may lead to increased oil consumption which will eventually result in abnormal noise from the engine and/or illumination of the oil pressure warning light. If the vehicle is continually operated in this condition, engine damage and/or seizure can occur, resulting in loss of motive power. In limited cases, a fire may occur from engine oil leaking onto a hot exhaust component due to a hole in the engine block. Loss of motive power and/or fire increases the risk of crash and injury.

The installation of the Piston Ring Noise Sensing System software in the ECM is a preventative measure to provide an early warning light to the driver of potential damage to the engine. To confirm that the latest reflash has been applied to a vehicle you are working on, verify the ROM ID using the table on Page 5. Before conducting the procedure, verify that the vehicle is included in the list of affected vehicles.

■ 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.

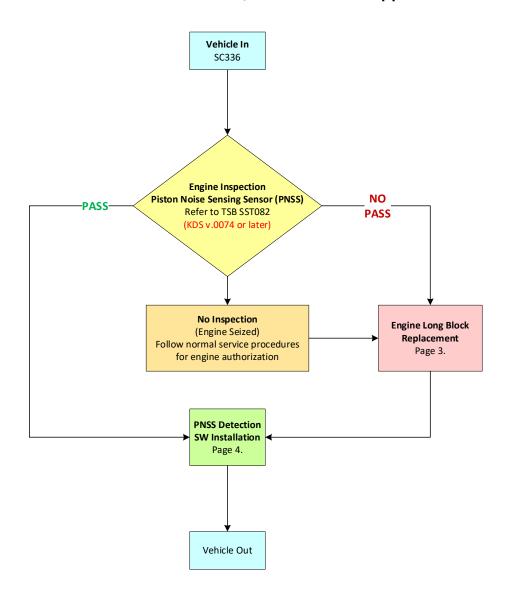
Repair status for a VIN is provided on KDealer+ (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on KDealer+ (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected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

A printed copy is for reference only; publication information can be updated at any time. Always refer to KGIS for the latest information. After logging in kdealer.com, the newest technical publications are listed in 'Service Releases' and has the latest service information that has been released.

Kia America, Inc.

Flowchart:

Ensure that the latest KDS Tablet Software Version is NNK-02-0074 or later. If the software version is not the latest, contact GITA Support at: 888-542-4371.



DO NOT install the PNSS Detection Software <u>BEFORE</u> performing the Engine Inspection (Piston Noise Sensing Sensor)

NOTICE

PASS (Other Conditions): If other conditions are present (ex. engine noise) and the Engine Vibration Inspection results in a PASS, then open a Techline case for further instructions.

RETEST: If there's an error on the measured engine vibration test, check the jack input (microphone) and knock sensor connection and perform measuring test again. If the results keep displaying 'RETEST' (more than 2 times), open a Techline case online for further instructions.



Inspection Procedure:

'RE-INSPECTION' (For vehicles tested prior to 5/7/2025 with a 'NO PASS' only)
ALL ORDERS PLACED ON OR BEFORE 5/7/2025 HAVE BEEN CANCELLED.

- 1. Refer to the Engine Vibration Inspection TSB SST082.
 - Connect the PNSS testing harness to the engine and 12V battery ground.
 - Engine coolant temperature MUST BE above minimum test temperature: 185°F (85°C)
- 2. Perform the PNSS Inspection using KDS and Inspection Harness.

NOTICE

Depending on the PNSS test result, an engine long block replacement may be required. <u>Be</u> sure to follow the flowchart outlined on page 2.

- Pass: PNSS Inspection complete + Install the PNSS SW (page 4).
- No Pass: PNSS Inspection complete + Engine R&R (see instructions below) + Install the PNSS SW (page 4) after engine replacement is completed.

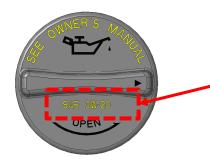
NOTICE

AFTER the Engine Vibration Inspection is completed, <u>ALL subject vehicles will require the PNSS software installation</u> (page 4).

Replacement Procedure (for PNSS 'No Pass'):

Replace the <u>engine long block assembly</u> by referring to "Engine Mechanical System \rightarrow Engine and Transaxle Assembly \rightarrow Repair procedures" in the applicable Shop Manual on KGIS.

<u>IN SOME CASES</u>: Vehicles produced from 22MY, check the engine oil viscosity printed on the existing oil filler cap. <u>If the printed specification does not state 0w20</u>, then <u>replace the oil filler cap with correct SAE 0w-20</u> viscosity printed on cap.



22MY~ Verify the printed oil filler cap viscosity is the correct specification for the subject vehicle.



Refer to TSB SST081 for instructions to upgrade the 'ECU' system:

To correct this condition, the specified system module should be reprogrammed using KDS as described in this bulletin in 'Auto Mode'.

Model Year	Upgrade Event Name
21MY	576. SK3 NU 2.0ATK ENGINE ECU UPGRADE (PISTON-RING NOISE SENSING SYSTEM)
211011	577. SP2 NU 2.0ATK ENGINE ECU UPGRADE (PISTON-RING NOISE SENSING SYSTEM)
22-23MY	816.SK3 NU 2.0ATK ENGINE PNSS LOGIC IMPROVEMENT
22-23IVI Y	817.SP2 NU 2.OATK ENGINE PNSS LOGIC IMPROVEMENT

■ NOTICE

- Confirm a <u>fully charged battery</u> (12.3 volts or higher is necessary) is used <u>or</u> utilize a fully charged jump starter box connected to the battery.
- Ensure the KDS GDS is sufficiently charged at 60% or higher prior to reflash.
- All ECU upgrades must be performed with the ignition set to the 'ON' position unless otherwise stated.
- Damaged VCI II units should not be used and promptly replaced.
- Be careful not to disconnect the VCI-II connected to the vehicle during the ECU upgrade procedure.
- DO NOT start the engine during ECU upgrade.
- DO NOT turn the ignition key 'OFF' or interrupt the power supply during ECU upgrade.
- When the ECU upgrade is completed, turn the ignition 'OFF' and wait 10 seconds before starting the engine.
- ONLY use approved ECU upgrade software designated for the correct application.

Connect the negative (-) terminal to the battery as shown below.





■ NOTICE

Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the applicable model is equipped with an immobilizer security system. Failure to follow proper procedures may cause the PCM to become inoperative after the upgrade and any claims associated with this repair may be subject to chargeback.



ROM ID Information Table:

(i) IMPORTANT

It is recommended to ALWAYS check the Electronic Parts Catalog (EPC) to locate the ECU Part Number respective to Auto/Manual Mode ROM IDs. DO NOT reference the parts label affixed to the ECU.

Upgrade Event #576 for 21MY Soul (SK3):

Model	System	IMMO 🔼	ECU P/No.	ROI	M ID	
Model	System	IIVIIVIO -	LCO F/NO.	Previous	New	
				SKBSP2KS6B2A		
		Yes	39171-2ELC1	SKBSP2KS6B7A	SKBSP2KF6B9A	
				SKBSP2KF6B7A		
				SKBSP2JS6B2A		
	SK3 ECU Yes	No	39173-2ELC1	SKBSP2JS6B7A	SKBSP2JF6B9A	
CN3		TCI.			SKBSP2JF6B7A	
3K3			SKBUP2AS6B2A			
		Yes	39171-2ELD1	SKBUP2CS6B7A	SKBUP2CF6B9A	
			SKBUP2CF6B7A			
				SKBUP2VS6B2A		
		No	39173-2ELD1	SKBUP2VS6B7A	SKBUP2VF6B9A	
				SKBUP2VF6B7A		

Upgrade Event #816 for 22-23MY Soul (SK3):

Model	System	m IMMO 🖪	ECU P/No.	ROI	M ID
Model	System		LCO 1 / NO.	Previous	New
		39171 2ELC2	SKCSP2KS6B8A SKCSP2KS6B8B	SKCSP2KS6B9A	
SK3	SK3 ECU Yes	ECU Yes	39173 2ELC2	SKCSP2JS6B8A SKCSP2JS6B8B	SKCSP2JS6B9A
			39171 2ELD2	SKCUP2CS6B8A	SKCUP2CS6B9A
		39173 2ELD2	SKCUP2VS6B8A	SKCUP2VS6B9A	



Upgrade Event #577 for 21MY Seltos (SP2):

Model	System	IMMO 🔼	ECU P/No.	ROI	M ID
Model	System	IIVIIVIO -	LCOT/NO.	Previous	New
				SPCUP2KS6D2A	
		Vas	39171-2EPTO	SPAUP2KS6D2A	SDALIDAKEGDZA
		Yes	39171-2EPV0	SPAUP2KS6D5A	SPAUP2KF6D7A
SP2	ECU			SPAUP2KF6D5A	
3FZ	LCO			SPCUP2JS6D2A	
	1	No	39173-2EPTO	SPAUP2JS6D2A	SPAUP2JF6D7A
		INO	39173-2EPV0	SPAUP2JS6D5A	SPAUPZJF0D/A
				SPAUP2JF6D5A	

Upgrade Event #817 for 22-23MY Seltos (SP2):

Model	System	IMMO 🕰	ECU P/No.	ROI	M ID
Model	System	IIVIIVIO -	LCO 1 / NO.	Previous	New
		39171 2EPT2 39171 2EPV2	SPCUP2KS6D6A SPCUP2KS6D6B	SPCUP2KS6D7A	
SP2	FCI V	Yes	39173-2EPT2 39173-2EPV2	SPCUP2JS6D6A SPCUP2JS6D6B	SPCUP2JS6D7A
352	LCO	ECU Yes	39171-2EPT3 39171-2EPV3	SPDUP2KS6D6A	SPDUP2KS6D7A
			39173-2EPT3 39173-2EPV3	SPDUP2JS6D6A	SPDUP2JS6D7A

To verify the vehicle is affected, be sure to check the Calibration Identification of the vehicle's ECM ROM ID and reference the Information Table as necessary.



Software Information:

The required software must be installed by selecting the 'Auto Mode' ECU Upgrade option.

<u>Note</u>: <u>In some case</u>, the 'Manual Mode' installation option may be required ONLY <u>if</u> the 'Auto Mode' function fails or is otherwise noted above.



■ NOTICE

If the automatic upgrade fails, turn the ignition 'OFF' for about 10 seconds then place it back in the 'ON' position to reset the control unit BEFORE performing the manual upgrade.

'Manual Mode' passwords.

Event #576 - Soul (SK3)

Menu	Password
SK3 Nu 2.0ATK CVT +IMMO/SMK: 39171-2ELC1	5195
SK3 Nu 2.0ATK CVT -IMMO: 39173-2ELC1	5196
SK3 Nu 2.0ATK 6MT +IMMO/SMK: 39171-2ELD1	5197
SK3 Nu 2.0ATK 6MT -IMMO: 39173-2ELD1	5198

Event #577 - Seltos (SP2)

Menu	Password
SP2 Nu 2.OATK CVT +IMMO/SMK: 39171-2EPTO/VO	5201
SP2 Nu 2.0ATK CVT -IMMO: 39173-2EPT0/V0	5202

Event #816 - Soul (SK3)

Menu	Password
SK3 2.0ATK CVT +IMMO/SMK: 39171-2ELC2	9171
SK3 2.0ATK CVT -IMMO: 39173-2ELC2	9173
SK3 2.0ATK 6MT +IMMO/SMK: 39171-2ELD2	7122
SK3 2.0ATK 6MT -IMMO: 39173-2ELD2	7322

Event #817 - Seltos (SP2)

Menu	Password
SP2 2.OATK CVT +IMMO/SMK: 39171-2EPT2/V2	3917
SP2 2.0ATK -IMMO: 39173-2EPT2/V2	3719
SP2 2.0ATK CVT +IMMO/SMK: 39171-2EPT3/V3	3321
SP2 2.0ATK -IMMO: 39173-2EPT3/V3	3323



UPGRADE EVENT:

Select the applicable **'ECU' system** module and the Event Group.

Soul (SK3) 21MY

 576. SK3 NU 2.0ATK ENGINE ECU UPGRADE (PISTON-RING NOISE SENSING SYSTEM)

or

Soul (SK3) 22-23MY

 816. SK3 NU 2.0ATK ENGINE PNSS LOGIC IMPROVEMENT

or

Seltos (SP2) 21MY

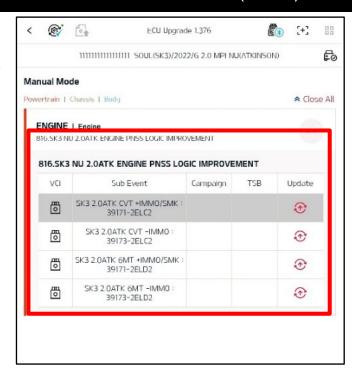
 577. SP2 NU 2.0ATK ENGINE ECU UPGRADE (PISTON-RING NOISE SENSING SYSTEM)



Seltos (SP2) 22-23MY

 817. SP2 NU 2.0ATK ENGINE PNSS LOGIC IMPROVEMENT

Verify the affected vehicle Calibration Identification of the applicable ECU ROM ID and reference the Information Table on page 5 as necessary.



AFFECTED VEHICLE RANGE:

Model	Production Date Range
Soul (SK3)	July 2, 2020 through April 19, 2022
Seltos (SP2)	July 2, 2020 through July 1, 2022

REQUIRED TOOL: (REFER TO TSB SST082)

Tool Name	Part Number	Figure	Comments
Kia Diagnostic System* (KDS)	N/A		KDS + VCI
Engine Vibration Inspection Harness	G1XTD CP200QQK		Located Toolbox 1, Drawer #12
USB C to 3.5mm Headphone Jack Adapter	(Samsung) EE-UC10JUWEGUS		Locally Sourced Must be Samsung brand for S6 Tablet

^{*}For technical issues related to KDS PNSS Inspection, contact GITA Support: 888-542-4371.

REQUIRED PART:

(ALL ORDERS PLACED ON OR BEFORE 5/7/2025 WILL BE CANCELLED)

FOR ENGINE R&R: Place engine orders according to the newest test results for Re-Inspections.

Model	Туре	Part Name	Part Number	Figure	Qty.
SK3	CVT	_	21101 123ZRQQKR*		
3/\3	MT	Engine Long Block	21101 122ZRQQKR*		1
SP2	CVT		21101 126ZRQQKR*		
	N/A	Service Kit	21102 N20AKQQK		1
	N/A	Coolant Concentrate	UM022 CH271	N/A	1 Gal.
ALL	OW-20	Full Synthetic	T0020 QRT12B <u>or</u> UM050 CH033	N/A	Up to
	5W-20	Engine Oil Total Energies <u>or</u> Exxon Mobil	T0520 QRT12A <u>or</u> UM050 CH034	IV/A	5qts.
ALL 22MY~	OW-20	Oil Filler Cap	26510 26640QQK***	D	1

<u>Note</u>: The replacement QQK part numbers will require a VIN entry for parts ordering. Please be sure to expedite warranty claim filing. *If the Reman part (QQKR) is not available, you may be allocated a part ending in QQK. If allocated a QQK part, this may be used in the repair and for the related warranty claim submission. **Some engines may not require all kit components. **Oil Filler Cap PN 26510 26640QQK may be added to the claim <u>only</u> if needed for 22MY~ models <u>only</u>.



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		23040 2E850	0	(SC336) Engine Vibration Inspection Pass +PNSS SW Installation	251032R0	0.6 M/H	26510 26640QQK*	1
SK3	R	23040 2E850		(SC336) Unable to perform Engine Vibration Inspection	251032R1	0.4	26510	1
SP2		23040 2E850	0	Engine Replaced under Normal Warranty +PNSS SW Installation	251032R2	M/H	26640QQK*	l

Note: Refer to Warranty Bulletin 2025-13 for claim submission procedures. If substitute transportation is necessary, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense. A copy of the rental/loaner invoice is required to be attached to the claim. *Oil Filler Cap PN 26510 26640QQK may be added to the claim only if needed for 22MY~ models only. Take a Photo of the Engine Noise Inspection Test Results (Pass, No Pass screen images) and attach to the claim.

Continued on page 11.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC336 when accessing the KDealer+ system.



Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.	
							21101 123ZRQQKR	1	
							21102 N20AKQQK	1	
			(SC336) Engine Vibration O Inspection No Pass +			UM022 CH271	1		
SK3 (A/T)		23040 2E850		(SC336)	251032R4		UM050 CH033 <u>or</u> UM050 CH034 <u>or</u> T0020 QRT12B <u>or</u> T0520 QRT12A	5	
				-		7.5	26510 26640QQK*	1	
		23040 2E101	U	Engine Replacement +		M/H	21101 122ZRQQKR	1	
					PNSS SW Installation			21102 N20AKQQK	1
								UM022 CH271	1
SK3 (M/T)				251032R9		UM050 CH033 <u>or</u> UM050 CH034 <u>or</u> T0020 QRT12B <u>or</u> T0520 QRT12A	5		
							26510 26640QQK*	1	

Note: Refer to Warranty Bulletin 2025-13 for claim submission procedures. If substitute transportation is necessary, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense. A copy of the rental/loaner invoice is required to be attached to the claim. *Oil Filler Cap PN 26510 26640QQK may be added to the claim only if needed for 22MY~ models only. Take a Photo of the Engine Noise Inspection Test Results (Pass, No Pass screen images) and attach to the claim.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference <u>SC336</u> when accessing the KDealer+ system.



Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
							21101 126ZRQQKR	1
							21102 N20AKQQK	1
							UM022 CH271	1
SP2 (FWD)			(SC336)	251032R5	6.8 M/H	UM050 CH033 or UM050 CH034 or T0020 QRT12B or T0520 QRT12A	5	
			0	Engine Vibration Inspection No Pass + Engine Replacement + PNSS SW Installation			26510 26640QQK*	1
			U				21101 126ZRQQKR	1
							21102 N20AKQQK	1
							UM022 CH271	1
SP2 (AWD)	23040 2E850			251032R6	7.1 M/H	UM050 CH033 or UM050 CH034 or T0020 QRT12B or T0520 QRT12A	5	
							26510 26640QQK*	1

Note: Refer to Warranty Bulletin 2025-13 for claim submission procedures. If substitute transportation is necessary, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense. A copy of the rental/loaner invoice is required to be attached to the claim. *Oil Filler Cap PN 26510 26640QQK may be added to the claim only if needed for 22MY~ models only. Take a Photo of the Engine Noise Inspection Test Results (Pass, No Pass screen images) and attach to the claim.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC336 when accessing the KDealer+ system.



'RE-INSPECTION ONLY' (For vehicles tested prior to 5/7/2025 with a 'NO PASS' 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		23040 2E850	0	(SC336) Engine Vibration Re-Inspection Pass +PNSS SW Installation	251032RA	0.9 M/H	26510 26640QQK*	1	
							21101 123ZRQQKR	1	
							21102 N20AKQQK	1	
		23040 2E850 R		(SC336) Engine Vibration Re-Inspection No Pass Engine Replacement	ļ	UM022 CH271	1		
SK3 (A/T)	R		0		251032RB	7.8 M/H	UM050 CH033 or UM050 CH034 or T0020 QRT12B or T0520 QRT12A	5	
							26510 26640QQK*	1	
							21101 122ZRQQKR	1	
					+PNSS SW Installation			21102 N20AKQQK	1
		23040 2E101			251032RC	7.8 M/H	UM022 CH271	1	
SK3 (M/T)			0				UM050 CH033 or UM050 CH034 or T0020 QRT12B or T0520 QRT12A	5	
							26510 26640QQK*	1	

Note: Refer to Warranty Bulletin 2025-13 for claim submission procedures. If substitute transportation is necessary, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense. Please contact your DPSM if extended rental assistance is needed. A copy of the rental/loaner invoice is required to be attached to the claim. A copy of the RO, Parts Order Invoice Information may necessary upon request. *Oil Filler Cap PN 26510 26640QQK may be added to the claim only if needed for 22MY~ models only. Take a Photo of the Engine Noise Inspection Test Results (Pass, No Pass screen images) and attach to the claim.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference <u>SC336</u> when accessing the KDealer+ system.



'RE-INSPECTION ONLY' (For vehicles tested prior to 5/7/2025 with a 'NO PASS' 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		23040 2E850	0	(SC336) Engine Vibration Re-Inspection Pass +PNSS SW Installation	251032RA	0.9 M/H	26510 26640QQK*	1	
							21101 126ZRQQKR	1	
							21102 N20AKQQK	1	
				I 251032RD I		UM022 CH271	1		
SP2 (FWD)	R	23040 2E850	0		251032RD	7.1 M/H	UM050 CH033 or UM050 CH034 or T0020 QRT12B or T0520 QRT12A	5	
							26510 26640QQK*	1	
							21101 126ZRQQKR	1	
					+PNSS SW Installation			21102 N20AKQQK	1
		23040 2E850	0		251032RE		UM022 CH271	1	
SP2 (AWD)						7.4 M/H	UM050 CH033 or UM050 CH034 or T0020 QRT12B or T0520 QRT12A	5	
							26510 26640QQK*	1	

Note: Refer to Warranty Bulletin 2025-13 for claim submission procedures. If substitute transportation is necessary, manually enter sublet code 'X2' for rental expense reimbursement or one roundtrip rideshare expense. Please contact your DPSM if extended rental assistance is needed. A copy of the rental/loaner invoice is required to be attached to the claim. A copy of the RO, Parts Order Invoice Information may necessary upon request. *Oil Filler Cap PN 26510 26640QQK may be added to the claim only if needed for 22MY~ models only. Take a Photo of the Engine Noise Inspection Test Results (Pass, No Pass screen images) and attach to the claim.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC336 when accessing the KDealer+ system.

