

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

SAFETY RECALL CAMPAIGN

SUBJECT:

ENGINE INSPECTION/REPLACEMENT AND ECM LOGIC IMPROVEMENT (SC336)

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 hold in the engine block. Loss of motive power and/or fire increases the risk of crash and injury.

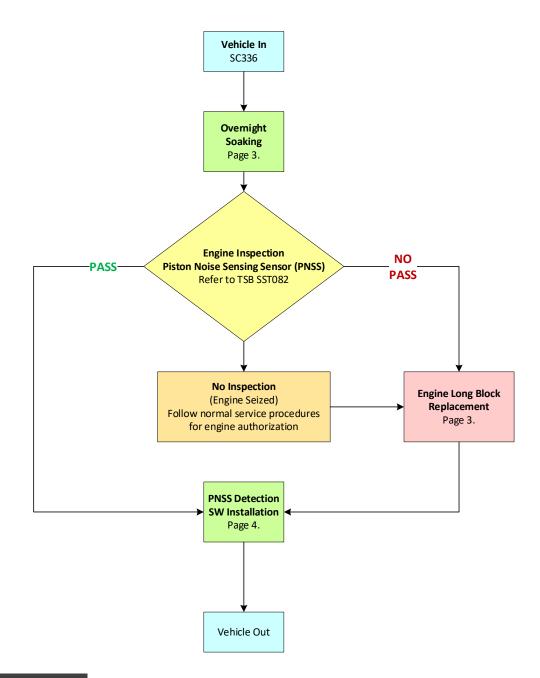
The installation of the Piston Ring Noise Sensing System software in the ECM is a preventative measure to provide an early warning light to the driver of potential damage to the engine. To confirm that the latest reflash has been applied to a vehicle you are working on, verify the ROM ID using the table 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 \rightarrow Warranty Coverage \rightarrow Warranty Coverage Inquiry \rightarrow Campaign Information). Not completed Recall / Service Action reports are available on KDealer+ (Consumer Affairs \rightarrow Not Completed Recall \rightarrow Recall VIN \rightarrow Select Report), which includes a list of affected vehicles.

Flowchart:



■ 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:

BEFORE performing the Engine Vibration Inspection test using KDS:

DAY 1

- 1. Park the vehicle in an area where the vehicle can be tested the following day without moving.
- 2. The vehicle MUST SIT OVERNIGHT where it is placed/parked (24 hrs).

DAY 2

- 3. Refer to the Engine Vibration Inspection TSB SST082.
 - The Engine Vibration Inspection (Test Date) must be 24 hours after the RO was opened.
 - DO NOT 'Start' (warm up) the engine or move the car before starting the test.
 - Connect the testing harness to the engine and 12V battery.
 - The 'cold' test must be performed and completed immediately upon starting the engine.

NOTICE

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

Pass: After PNSS inspection is completed

No Pass: After PNSS inspection and engine is replaced

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

Replacement Procedure (for PNSS 'No Pass'):

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

IN SOME CASES: Vehicles produced from 22MY, check the engine oil viscosity printed on the existing oil filler cap. If the printed specification does not match (ex. (5w-20) the vehicle's recommended specification (ex. 0w-20), then replace the oil filler cap with correct SAE 0w-20 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'.

Upgrade Event Name
816.SK3 NU 2.0ATK ENGINE PNSS LOGIC IMPROVEMENT
817.SP2 NU 2.0ATK 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 #816 Soul (SK3)

Model	System	IMMO 🕰	ECU P/No.	ROI	M ID
Model	System	IIVIIVIO 🔛	LCO F/NO.	Previous	New
		ECU Yes	39171 2ELC2	SKCSP2KS6B8A SKCSP2KS6B8B	SKCSP2KS6B9A
SV3	SK3 ECU		39173 2ELC2	SKCSP2JS6B8A SKCSP2JS6B8B	SKCSP2JS6B9A
383			39171 2ELD2	SKCUP2CS6B8A	SKCUP2CS6B9A
			39173 2ELD2	SKCUP2VS6B8A	SKCUP2VS6B9A

Upgrade Event #817 Seltos (SP2)

Model	System	IMMO 🔼 ECU P/No		ROM ID		
Model	System		LCO F/NO.	Previous	New	
SP2	ECU	Yes	39171 2EPT2 39171 2EPV2	SPCUP2KS6D6A SPCUP2KS6D6B	SPCUP2KS6D7A	

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.

Menu	Password
SK3 2.OATK 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
SP2 2.0ATK 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:

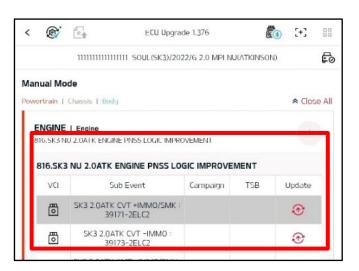
Select the applicable **'ECU' system** module and the Event Group.

 816.SK3 NU 2.0ATK ENGINE PNSS LOGIC IMPROVEMENT

or

 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	LAND IN THE PROPERTY OF THE PR	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

REQUIRED PART:

Model	Туре	Part Name	Part Number	Figure	Qty.
SK3	CVT		21101 123ZRQQKR*		
3K3	MT	Engine Long Block	21101 122ZRQQKR*		1
SP2	CVT		21101 126ZRQQKR*		
	N/A	Service Kit	21102 N20AKQQK		1
ALL	N/A	Coolant Concentrate	UM022 CH271	N/A	1 Gal.
	OW-20	Full Synthetic	UM050 CH033	N/A	Up to
	5W-20	Engine Oil	UM050 CH034	IN/A	5qts.
ALL 22MY~	OW-20	Oil Filler Cap	26510 26640QQK***	**	1

Note: The replacement QQK part numbers will require a VIN entry for parts ordering. DO NOT order these parts for stocking purposes, related to this Campaign. Supply is very limited. Until supply stabilizes, please confirm part availability before scheduling customers. 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 only if needed for 22MY~ models only.



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	0	(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. Manually enter sublet code 'X2' for reimbursement of one roundtrip rideshare expense or up to three (3) days of rental expense, with supporting documentation. *Oil Filler Cap PN 26510 26640QQK may be added to the claim only if needed for 22MY~ models only. No DTC/Engine Noise (NG) inspection requires to be performed 24 hrs. after the RO open date. Take a Photo of the Engine Noise Inspection Test Results (Pass, No Pass screen images) and attach to the claim.

Continued on page 9.

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			
SK3		23040			05400054		UM022 CH271	1			
(A/T)		2E850			251032R4		UM050 CH033	_			
							<u>or</u> UM050 CH034	5			
						7.5	26510 26640QQK*	1			
						M/H	21101 122ZRQQKR	1			
							21102 N20AKQQK	1			
SK3	23040 2E101		K3 2304	23040					UM022 CH271	1	
(M/T)						251032R9		UM050 CH033			
				(SC336) Engine Vibration O Inspection No Pass +			<u>or</u> UM050 CH034	5			
			0				26510 26640QQK*	1			
					Engine Replacement			21101 126ZRQQKR	1		
	23040			+PNSS SW Installation			21102 N20AKQQK	1			
SP2					23040	23040			25402205	6.8	UM022 CH271
(FWD)		2E850			251032R5	M/H	UM050 CH033				
								<u>or</u> UM050 CH034	5		
									26510 26640QQK*	1	
						7.1 M/H	21101 126ZRQQKR	1			
	SP2 23040 (AWD) 2E850						21102 N20AKQQK	1			
SP2			1 1		251032R6		UM022 CH271	1			
							UM050 CH033				
					<u>or</u> UM050 CH034	5					
							26510 26640QQK*	1			

Note: Refer to Warranty Bulletin 2025-13 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. *Oil Filler Cap PN 26510 26640QQK may be added to the claim only if needed for 22MY~ models only. No DTC/Engine Noise (NG) inspection requires to be performed 24 hrs. after the RO open date. Take a Photo of the Engine Noise Inspection Test Results (Pass, No Pass screen images) and attach to the claim.

NOTICE

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