



GROUP	MODEL
Voluntary Emissions Service Campaign	2016-2022MY Multiple Models
NUMBER	DATE
SC340 (Rev 4, 03/05/2026)	November 2025

VOLUNTARY EMISSIONS SERVICE CAMPAIGN

SUBJECT:

THETA II 2.4L GDI EMISSIONS ECM LOGIC IMPROVEMENT (SC340)

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 upgrade the Electronic Control Module 'ECM' system software for certain 2016-2022MY vehicles equipped with 2.4L Theta II engines listed in the table below. Kia has become aware that certain 2016-2022MY vehicles equipped with 2.4L Theta II engines may have engine calibrations that were not optimized for emissions standards under certain specific conditions. These calibrations may cause the vehicle to release air pollutants which exceed Federal and California standards. These standards were established to protect your health and welfare from the dangers of air pollution. Follow the procedure outlined in this publication to update the 'ECM' software with improve Diagnostic Trouble Code (DTC) judgement logic. Refer to [SST081](#) for software upgrade instructions using Kia Diagnostic System (KDS) tablet and VCI-II and confirm the Upgrade Event Number/Name, ROM ID Information, and Manual Mode passwords (if applicable) on the applicable vehicle.

Model Year	Model	Production Date Range
16-20MY	Optima (JF, JFa)	August 28, 2015 to June 23, 2020
18-20MY	Sorento (UMa)	March 31, 2017 to November 4, 2020
17-22MY	Sportage (QL)	December 10, 2015 to December 7, 2021
16-17MY	Sorento (UMa),	TBD Software Release (Under Development and will be released at different stages)

NOTICE

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 SC340.

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.

Refer to [TSB SST081](#) for instructions to upgrade the 'ECM' system:

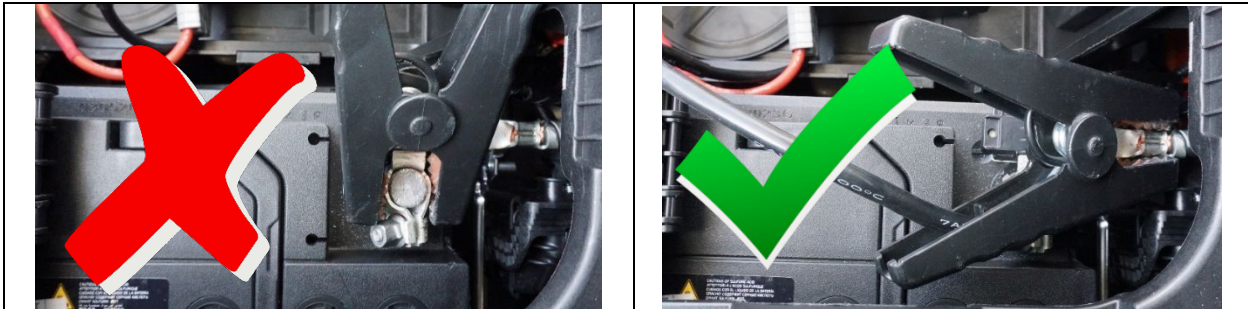
To correct this condition, the specified system module should be reprogrammed using KDS as described in this bulletin in 'Auto Mode'.

Upgrade Event Name
876.UMa PE Theta 2.4 Emission Logic Improvement (19MY)
877.UMa PE Theta 2.4 Emission Logic Improvement (20MY)
878.JFa PE Theta 2.4 Emission Logic Improvement (19~20MY)
879.QL/QL PE Theta 2.4 Emission Logic Improvement (19~21MY)
914.QL/QL PE Theta 2.4 Emission Logic Improvement (22MY)
889.UMa Theta 2.4 Emission Logic improvement (18MY)
890.JF/JFa Theta 2.4 Emission Logic improvement (18MY)
891.QL Theta 2.4 Emission Logic improvement (18MY)
920. JF/JFa Theta 2.4 Emission Logic Improvement (16~17MY)
925. QL Theta 2.4 Emission Logic Improvement (17MY)


 NOTICE

- Confirm a fully charged battery (12.3 volts or higher is necessary) is used or utilize or fully charged jump starter box connected to the battery.
- **Ensure the KDS GDS is sufficiently charged at 60% or higher 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.

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ROM ID Information Table:

Upgrade Event #889 Sorento (UMa)


ⓘ 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.

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Sorento (UMa) 18MY	ECM (ULEV)	Yes	39100 2GGF8	UMAINC4ERA6A UMAINC4ERA7A UMAINC4ERA7B UMAINC4ERD5A UMAINC4ERD5B UMAINC4ERD5K UMAINC4ERD5M UMAINC4ERD5O UMAINC4ERD5Q UMAINC4ERD5S	UMAINC4ERDXA
			39100 2GGH8	UMAINC4ERA6A UMAINC4ERA7A UMAINC4ERA7B UMAINC4ERD5A UMAINC4ERD5B UMAINC4ERD5L UMAINC4ERD5N UMAINC4ERD5P UMAINC4ERD5R UMAINC4ERD5T	UMAINC4ERDXB
		No	39100 2GGF3	UMAINC4EMA6A UMAINC4EMA7A UMAINC4EMA7B UMAINC4EMD5A UMAINC4EMD5B UMAINC4EMD5K UMAINC4EMD5M UMAINC4EMD5O UMAINC4EMD5Q UMAINC4EMD5S	UMAINC4EMDXA
			39100 2GGH3	UMAINC4EMA6A UMAINC4EMA7A UMAINC4EMA7B UMAINC4EMD5A UMAINC4EMD5B UMAINC4EMD5L UMAINC4EMD5N UMAINC4EMD5P UMAINC4EMD5R UMAINC4EMD5T	UMAINC4EMDXB

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Upgrade Event #876 Sorento (UMa)

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Sorento (UMa) 19MY	ECM (ULEV)	Yes	39171 2GMNO	UPAJNC4ERE1A UPAJNC4ERE1B UPAJNC4ERE1C UPAJNC4ERE1D UPAJNC4ERG1A UPAJNC4ERG1B UPAJNC4ERG1C UPAJNC4ERG1D	UPAJNC4ERGXA
			39171 2GMN1	UPAJNC4ERE1A UPAJNC4ERE1B UPAJNC4ERE1C UPAJNC4ERE1D UPAJNC4ERG1K UPAJNC4ERG1L UPAJNC4ERG1M UPAJNC4ERG1N	UPAJNC4ERGXB
		No	39173 2GMA0	UPAJNC4EME1A UPAJNC4EME1B UPAJNC4EME1C UPAJNC4EME1D UPAJNC4EMG1A UPAJNC4EMG1B UPAJNC4EMG1C UPAJNC4EMG1D	UPAJNC4EMGXA
			39173 2GMA1	UPAJNC4EME1A UPAJNC4EME1B UPAJNC4EME1C UPAJNC4EME1D UPAJNC4EMG1K UPAJNC4EMG1L UPAJNC4EMG1M UPAJNC4EMG1N	UPAJNC4EMGXB


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Upgrade Event #877 Sorento (UMa)

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Sorento (UMa) 20MY	ECM (ULEV)	Yes	39171 2GMN2 39171 2GMN3	UPAKNC4ERG1A UPAKNC4ERG1B UPAKNC4ERG3A UPAKNC4ERG3B UPAKNC4ERG3C UPAKNC4ERG3D UPAKNC4ERG3E	UPAKNC4ERGXA
		No	39173 2GMA2 39173 2GMA3	UPAKNC4EMG1A UPAKNC4EMG1B UPAKNC4EMG3A UPAKNC4EMG3B UPAKNC4EMG3C UPAKNC4EMG3D UPAKNC4EMG3E	UPAKNC4EMGXA



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Upgrade Event #890 Optima (JF/JFa)

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Optima (JF,JFa) 18MY	ECM (ULEV)	Yes	39108 2GGC7	JFAINC4ERDAA JFAINC4ERDAB JFAINC4ERD5A JFAINC4ERD5B JFAINC4ERD5K JFAINC4ERD5L JFAINC4ERD5N JFAINC4ERD5O	JFAINC4ERDXA
		No	39108 2GGC2	JFAINC4EMDAA JFAINC4EMDAB JFAINC4EMD5A JFAINC4EMD5B JFAINC4EMD5K JFAINC4EMD5L JFAINC4EMD5N JFAINC4EMD5O	JFAINC4EMDXA
	ECM (SULEV)	Yes	39108 2GGD7	JFAINS4ERDAA JFAINS4ERDAB JFAINS4ERD5A JFAINS4ERD5B JFAINS4ERD5K JFAINS4ERD5L JFAINS4ERD5N JFAINS4ERD5O	JFAINS4ERDXA
		No	39108 2GGD2	JFAINS4EMDAA JFAINS4EMDAB JFAINS4EMD5A JFAINS4EMD5B JFAINS4EMD5K JFAINS4EMD5L JFAINS4EMD5N JFAINS4EMD5O	JFAINS4EMDXA


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Upgrade Event #878 Optima (JFa)

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Optima (JFa) 19MY	ECM (ULEV)	Yes	39171 2GJK0	JPAJNC4ERE3A JPAJNC4ERE3B JPAJNC4ERE3C JPAJNC4ERE6D JPAJNC4ERE6E JPAJNC4ERE6F JPAJNC4ERG1G JPAJNC4ERG1H JPAJNC4ERG1I JPAJNC4ERG1J	JPAJNC4ERGXA
		No	39171 2GJK5	JPAJNC4EME3A JPAJNC4EME3B JPAJNC4EME3C JPAJNC4EME6D JPAJNC4EME6E JPAJNC4EME6F JPAJNC4EMG1G JPAJNC4EMG1H JPAJNC4EMG1I JPAJNC4EMG1J	JPAJNC4EMGXA
	ECM (SULEV)	Yes	39171 2GJL0	JPAJNS4ERE3A JPAJNS4ERE3B JPAJNS4ERE3C JPAJNS4ERE6D JPAJNS4ERE6E JPAJNS4ERG1F JPAJNS4ERG1G JPAJNS4ERG1H JPAJNS4ERG1I	JPAJNS4ERGXA
		No	39171 2GJL5	JPAJNS4EME3A JPAJNS4EME3B JPAJNS4EME3C JPAJNS4EME6D JPAJNS4EME6E JPAJNS4EMG1F JPAJNS4EMG1G JPAJNS4EMG1H JPAJNS4EMG1I	JPAJNS4EMGXA

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Upgrade Event #878 Optima (JFa)

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Optima (JFa) 20MY	ECM (ULEV)	Yes	39171 2GJK1	JPAKNC4ERG11 JPAKNC4ERG1A JPAKNC4ERG1B JPAKNC4ERG1C JPAKNC4ERG3A JPAKNC4ERG3B JPAKNC4ERG3C	JPAKNC4ERGXA
		No	39171 2GJK6	JPAKNC4EMG11 JPAKNC4EMG1A JPAKNC4EMG1B JPAKNC4EMG1C JPAKNC4EMG3A JPAKNC4EMG3B JPAKNC4EMG3C	JPAKNC4EMGXA
	ECM (SULEV)	Yes	39171 2GJL1	JPAKNS4ERG11 JPAKNS4ERG1A JPAKNS4ERG1B JPAKNS4ERG1C JPAKNS4ERG3A JPAKNS4ERG3B JPAKNS4ERG3C	JPAKNS4ERGXA
		No	39171 2GJL6	JPAKNS4EMG11 JPAKNS4EMG1A JPAKNS4EMG1B JPAKNS4EMG1C JPAKNS4EMG3A JPAKNS4EMG3B JPAKNS4EMG3C	JPAKNS4EMGXA

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Upgrade Event #891 Sportage (QL)

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Sportage (QL) 18MY	ECM (ULEV)	Yes	39100 2GHR6	QLDINC4ERC3A QLDINC4ERCAA QLDINC4ERCAB QLDINC4ERD51 QLDINC4ERD52 QLDINC4ERD54 QLDINC4ERD5A QLDINC4ERD5B	QLDINC4ERDXA
		Yes	39100 2GHS6	QLDINC4ERC3K QLDINC4ERCAK QLDINC4ERCAM QLDINC4ERD55 QLDINC4ERD56 QLDINC4ERD58 QLDINC4ERD5K QLDINC4ERD5L	QLDINC4ERDXB
		No	39100 2GHS1	QLDINC4EMC3A QLDINC4EMCAA QLDINC4EMCAB QLDINC4EMD51 QLDINC4EMD52 QLDINC4EMD54 QLDINC4EMD5A QLDINC4EMD5B	QLDINC4EMDXA
		No	9100 2GHT1	QLDINC4EMC3K QLDINC4EMCAK QLDINC4EMCAM QLDINC4EMD55 QLDINC4EMD56 QLDINC4EMD58 QLDINC4EMD5K QLDINC4EMD5L	QLDINC4EMDXB

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Upgrade Event #891 Sportage (QL)


Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Sportage (QL) 18MY	ECM (SULEV)	Yes	39100 2GHT6	QLDINS4ERC3A QLDINS4ERCAA QLDINS4ERCAB QLDINS4ERD51 QLDINS4ERD52 QLDINS4ERD54 QLDINS4ERD5A QLDINS4ERD5B	QLDINS4ERDXA
		Yes	39100 2GHV6	QLDINS4ERC3K QLDINS4ERCAK QLDINS4ERCAM QLDINS4ERD55 QLDINS4ERD56 QLDINS4ERD58 QLDINS4ERD5K QLDINS4ERD5L	QLDINS4ERDXB
		No	39100 2GHV1	QLDINS4EMC3A QLDINS4EMCAA QLDINS4EMCAB QLDINS4EMD51 QLDINS4EMD52 QLDINS4EMD54 QLDINS4EMD5A QLDINS4EMD5B	QLDINS4EMDXA
		No	39100 2GHW1	QLDINS4EMC3K QLDINS4EMCAK QLDINS4EMCAM QLDINS4EMD55 QLDINS4EMD56 QLDINS4EMD58 QLDINS4EMD5K QLDINS4EMD5L	QLDINS4EMDXB

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Upgrade Event #879 Sportage (QL)

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Sportage (QL) 19MY	ECM (ULEV)	Yes	39100 2GHR7	QLDJNC4ERE2A QLDJNC4ERG1B QLDJNC4ERG1C QLDJNC4ERG1D QLDJNC4ERG1E	QLDJNC4ERGXA
			39100 2GHS7	QLDJNC4ERE2K QLDJNC4ERG1L QLDJNC4ERG1M QLDJNC4ERG1N QLDJNC4ERG1O	QLDJNC4ERGXB
		No	39100 2GHS2	QLDJNC4EME2A QLDJNC4EMG1B QLDJNC4EMG1C QLDJNC4EMG1D QLDJNC4EMG1E	QLDJNC4EMGXA
			39100 2GHT2	QLDJNC4EME2K QLDJNC4EMG1L QLDJNC4EMG1M QLDJNC4EMG1N QLDJNC4EMG1O	QLDJNC4EMGXB
	ECM (SULEV)	Yes	39100 2GHT7	QLDJNS4ERE2A QLDJNS4ERG1B QLDJNS4ERG1C QLDJNS4ERG1D QLDJNS4ERG1E	QLDJNS4ERGXA
			39100 2GHV7	QLDJNS4ERE2K QLDJNS4ERG1L QLDJNS4ERG1M QLDJNS4ERG1N QLDJNS4ERG1O	QLDJNS4ERGXB
		No	39100 2GHV2	QLDJNS4EME2A QLDJNS4EMG1B QLDJNS4EMG1C QLDJNS4EMG1D QLDJNS4EMG1E	QLDJNS4EMGXA
			39100 2GHW2	QLDJNS4EME2K QLDJNS4EMG1L QLDJNS4EMG1M QLDJNS4EMG1N QLDJNS4EMG1O	QLDJNS4EMGXB

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Upgrade Event #879 Sportage (QL)

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
Sportage (QL) 20MY	ECM (ULEV)	Yes	39171 2GRA1 39171 2GRB1	QPDKNC4ERG0A QPDKNC4ERG2A QPDKNC4ERG2B QPDKNC4ERG3A QPDKNC4ERG3B QPDKNC4ERG3C	QPDKNC4ERGXA
		No	39171 2GRC1 39171 2GRD1	QPDKNC4EMG0A QPDKNC4EMG2A QPDKNC4EMG2B QPDKNC4EMG3A QPDKNC4EMG3B QPDKNC4EMG3C	QPDKNC4EMGXA
	ECM (SULEV)	Yes	39171 2GRE1 39171 2GRF1	QPDKNS4ERG0A QPDKNS4ERG0B QPDKNS4ERG2A QPDKNS4ERG2B QPDKNS4ERG3A QPDKNS4ERG3B QPDKNS4ERG3C	QPDKNS4ERGXA
		No	39171 2GRG1 39171 2GRH1	QPDKNS4EMG0A QPDKNS4EMG0B QPDKNS4EMG2A QPDKNS4EMG2B QPDKNS4EMG3A QPDKNS4EMG3B QPDKNS4EMG3C	QPDKNS4EMGXA


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Upgrade Event #879 Sportage (QL)


Model	System	IMMO		ECU P/No.	ROM ID	
					Previous	New
Sportage (QL) 21MY	ECM (ULEV)	Yes		39171 2GRA2 39171 2GRB2	QPDLNC4ERG3A	QPDLNC4ERGXA
		No		39171 2GRC2 39171 2GRD2	QPDLNC4EMG3A	QPDLNC4EMGXA
	ECM (SULEV)	Yes		39171 2GRE2 39171 2GRF2	QPDLNS4ERG3A	QPDLNS4ERGXA
		No		39171 2GRG2 39171 2GRH2	QPDLNS4EMG3A	QPDLNS4EMGXA

Upgrade Event #914 Sportage (QL)

Model	System	IMMO		ECU P/No.	ROM ID	
					Previous	New
Sportage (QL) 22MY	ECM (ULEV)	Yes		39171 2GRA3	QPNNLM_A_S2A QPNNLM_A_S2B	QPNNLM_A_SXA
				39171 2GRB3	QPNNLM_G_S2A QPNNLM_G_S2B	QPNNLM_G_SXA
		No		39171 2GRC3	QPNNLS_A_S2A QPNNLS_A_S2B	QPNNLS_A_SXA
				39171 2GRD3	QPNNLS_G_S2A QPNNLS_G_S2B	QPNNLS_G_SXA
	ECM (SULEV)	Yes		39171 2GRE3	QPNSLM_A_S2A QPNSLM_A_S2B	QPNSLM_A_SXA
				39171 2GRF3	QPNSLM_G_S2A QPNSLM_G_S2B	QPNSLM_G_SXA
		No		39171 2GRG3	QPNSLS_A_S2A QPNSLS_A_S2B	QPNSLS_A_SXA
				39171 2GRH3	QPNSLS_G_S2A QPNSLS_G_S2B	QPNSLS_G_SXA

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.

Upgrade Event #920 Optima (JF/JFa)




Model	System	IMMO		ECU P/No.	ROM ID	
					Previous	New
Optima (JF/JFaQL) 16-17MY	ECM (ULEV)	Yes		39108 2GGC5	JFAGNC4ERB0A JFAGNC4ERB0B JFAGNC4ERC0A JFAGNC4ERC3A JFAGNC4ERC3K JFAGNC4ERC3L JFAGNC4ERC3M JFAGNC4ERD11 JFAGNC4ERD1K JFAGNC4ERD1L JFAGNC4ERD1M	JFAGNC4ERDXA
		No		39108 2GGCO	JFAGNC4EMB0A JFAGNC4EMB0B JFAGNC4EMCOA JFAGNC4EMC3A JFAGNC4EMC3K JFAGNC4EMC3L JFAGNC4EMC3M JFAGNC4EMD11 JFAGNC4EMD1K JFAGNC4EMD1L JFAGNC4EMD1M	JFAGNC4EMDXA
	ECM (SULEV)	Yes		39108 2GGD5	JFAGNS4ERB0A JFAGNS4ERB0B JFAGNS4ERC0A JFAGNS4ERC3A JFAGNS4ERC3K JFAGNS4ERC3L JFAGNS4ERC3M JFAGNS4ERD11 JFAGNS4ERD1K JFAGNS4ERD1L JFAGNS4ERD1M	JFAGNS4ERDXA
		No		39108 2GGDO	JFAGNS4EMB0A JFAGNS4EMB0B JFAGNS4EMCOA JFAGNS4EMC3A JFAGNS4EMC3K JFAGNS4EMC3L JFAGNS4EMC3M JFAGNS4EMD11 JFAGNS4EMD1K JFAGNS4EMD1L JFAGNS4EMD1M	JFAGNS4EMDXA






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Upgrade Event #920 Optima (JF/JFa)

Model	System	IMMO		ECU P/No.	ROM ID	
					Previous	New
Optima (JF/JFa) 16-17MY	ECM (ULEV)	Yes		39108 2GGC6	JFAHNC4ERC3A JFAHNC4ERC3B JFAHNC4ERC31 JFAHNC4ERC32 JFAHNC4ERC33 JFAHNC4ERC34 JFAHNC4ERC35	JFAHNC4ERCXA
				39108 2GGC8	JFAHNC4ERD1A JFAHNC4ERD11 JFAHNC4ERD12 JFAHNC4ERD13 JFAHNC4ERD14 JFAHNC4ERD15	JFAHNC4ERDXA
		No		39108 2GGC1	JFAHNC4EMC3A JFAHNC4EMC3B JFAHNC4EMC31 JFAHNC4EMC32 JFAHNC4EMC33 JFAHNC4EMC34 JFAHNC4EMC3C	JFAHNC4EMCXA
				39108 2GGC3	JFAHNC4EMD1A JFAHNC4EMD11 JFAHNC4EMD12 JFAHNC4EMD13 JFAHNC4EMD14 JFAHNC4EMD1B	JFAHNC4EMDXA
				39108 2GGL1	JFAHNC4EMC3K JFAHNC4EMC3L JFAHNC4EMC35 JFAHNC4EMC36 JFAHNC4EMC37 JFAHNC4EMC38 JFAHNC4EMC3M	JFAHNC4EMCXB
				39100 2GGL2	JFAHNC4EMD1K JFAHNC4EMD15 JFAHNC4EMD16 JFAHNC4EMD17 JFAHNC4EMD18 JFAHNC4EMD1L	JFAHNC4EMDXB


Upgrade Event #920 Optima (JF/JFa)

Model	System	IMMO		ECU P/No.	ROM ID	
					Previous	New
Optima (JF/JFa) 16-17MY	ECM (SULEV)	Yes		39108 2GGD6	JFAHNS4ERC3A JFAHNS4ERC3B JFAHNS4ERC31 JFAHNS4ERC32 JFAHNS4ERC33 JFAHNS4ERC34 JFAHNS4ERC35	JFAHNS4ERCXA
				39108 2GGD8	JFAHNS4ERD1A JFAHNS4ERD11 JFAHNS4ERD12 JFAHNS4ERD13 JFAHNS4ERD14 JFAHNS4ERD15	JFAHNS4ERDXA
		No		39108 2GGD1	JFAHNS4EMC3A JFAHNS4EMC3B JFAHNS4EMC31 JFAHNS4EMC32 JFAHNS4EMC33 JFAHNS4EMC34 JFAHNS4EMC3C	JFAHNS4EMCXA
				39108 2GGD3	JFAHNS4EMD1A JFAHNS4EMD11 JFAHNS4EMD12 JFAHNS4EMD13 JFAHNS4EMD14 JFAHNS4EMD1B	JFAHNS4EMDXA
				39108 2GGM1	JFAHNS4EMC3K JFAHNS4EMC3L JFAHNS4EMC35 JFAHNS4EMC36 JFAHNS4EMC37 JFAHNS4EMC38 JFAHNS4EMC3M	JFAHNS4EMCXB
				39100 2GGM2	JFAHNS4EMD1K JFAHNS4EMD15 JFAHNS4EMD16 JFAHNS4EMD18 JFAHNS4EMD1L	JFAHNS4EMDXB


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Upgrade Event #925 Sportage (QL)

Model	System	IMMO		ECU P/No.	ROM ID	
					Previous	New
Sportage (QL) 17MY	ECM (ULEV)	Yes		39100 2GHR5	QLDGNC4ERB2A QLDHNC4ERB2A QLDHNC4ERB4A QLDHNC4ERB4B QLDHNC4ERB41 QLDHNC4ERB42 QLDHNC4ERB43 QLDHNC4ERB44 QLDHNC4ERB4C	QLDHNC4ERBXA
				39100 2GHS5	QLDGNC4ERB2K QLDHNC4ERB2K QLDHNC4ERB4K QLDHNC4ERB4L QLDHNC4ERB45 QLDHNC4ERB46 QLDHNC4ERB47 QLDHNC4ERB48 QLDHNC4ERB4M	QLDHNC4ERBxB
		No		39100 2GHS0	QLDGNC4EMB2A QLDHNC4EMB2A QLDHNC4EMB4A QLDHNC4EMB4B QLDHNC4EMB41 QLDHNC4EMB42 QLDHNC4EMB43 QLDHNC4EMB44 QLDHNC4EMB4C	QLDHNC4EMBXA
				39100 2GHT0	QLDGNC4EMB2K QLDHNC4EMB2K QLDHNC4EMB4K QLDHNC4EMB4L QLDHNC4EMB45 QLDHNC4EMB46 QLDHNC4EMB47 QLDHNC4EMB48 QLDHNC4EMB4M	QLDHNC4EMBxB

Upgrade Event #925 Sportage (QL)

Model	System	IMMO		ECU P/No.	ROM ID	
					Previous	New
Sportage (QL) 17MY	ECM (SULEV)	Yes		39100 2GHT5	QLDGNS4ERB2A QLDHNS4ERB2A QLDHNS4ERB4A QLDHNS4ERB4B QLDHNS4ERB41 QLDHNS4ERB42 QLDHNS4ERB43 QLDHNS4ERB44 QLDHNS4ERB4C	QLDHNS4ERBXA
				39100 2GHV5	QLDGNS4ERB2K QLDHNS4ERB2K QLDHNS4ERB4K QLDHNS4ERB4L QLDHNS4ERB45 QLDHNS4ERB46 QLDHNS4ERB47 QLDHNS4ERB48 QLDHNS4ERB4M	QLDHNS4ERBXB
		No		39100 2GHV0	QLDGNS4EMB2A QLDHNS4EMB2A QLDHNS4EMB4A QLDHNS4EMB4B QLDHNS4EMB41 QLDHNS4EMB42 QLDHNS4EMB43 QLDHNS4EMB44 QLDHNS4EMB4C	QLDHNS4EMBXA
				39100 2GHW0	QLDGNS4EMB2K QLDHNS4EMB2K QLDHNS4EMB4K QLDHNS4EMB4L QLDHNS4EMB45 QLDHNS4EMB46 QLDHNS4EMB47 QLDHNS4EMB48 QLDHNS4EMB4M	QLDHNS4EMBXB



SUBJECT:

THETA II 2.4L GDI EMISSIONS ECM LOGIC IMPROVEMENT (SC340)

Software Information:

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

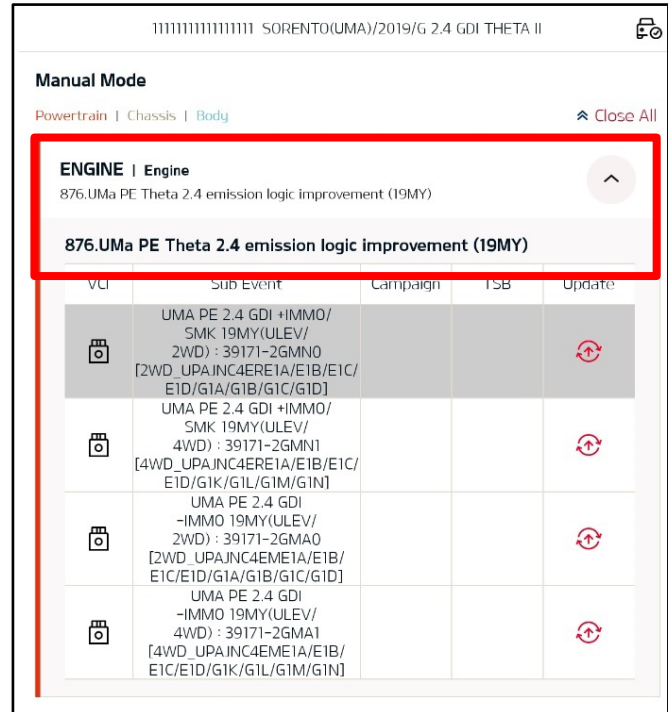
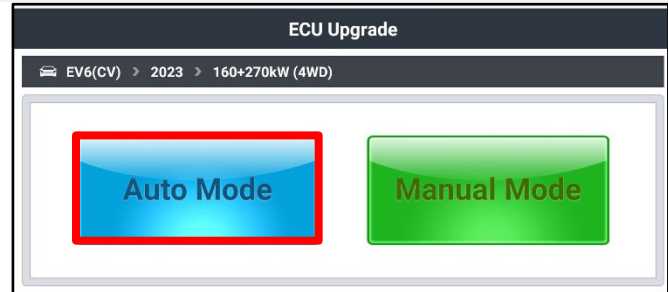
Note: In some case, the 'Manual Mode' installation option may be required ONLY if the 'Auto Mode' function fails or is otherwise noted above.

UPGRADE EVENT:

Select the applicable **'ECM'** system module and the Event Group for the affected vehicle:

- 889. UMa Theta 2.4 emission logic Improvement (18MY)
or
- 876.UMa PE Theta 2.4 Emission Logic Improvement (19MY)
or
- 877.UMa PE Theta 2.4 Emission Logic Improvement (20MY)
or
- 890.JF/JFa Theta 2.4 Emission logic Improvement (18MY)
or
- 878.JFa PE Theta 2.4 Emission Logic Improvement (19-20MY)
or
- 891.QL Theta 2.4 Emission logic Improvement (18MY)
or
- 879.QL/QL PE Theta 2.4 Emission Logic Improvement (19-21MY)
or
- 914.QL/QL PE Theta 2.4 Emission Logic Improvement (22MY)

Verify the affected vehicle Calibration Identification of the applicable ECU ROM ID and reference the Information Table on pages 3 - 14 as necessary.



- 920.JF/JFa Theta 2.4 Emission Logic Improvement (16~17MY)
or
- 925.QL Theta 2.4 Emission Logic Improvement (17MY)

 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 No.	Menu	Password
#889	UMA 2.4 GDI +IMMO/SMK 18MY(ULEV/2WD) : 39100-2GGF8 [2WD_UMAINC4ERA6A/A7A/A7B/D5A/D5B/D5K/D5M/D5O/D5Q/D5S]	4554
	UMA 2.4 GDI +IMMO/SMK 18MY(ULEV/4WD) : 39100-2GGH8 [4WD_UMAINC4ERA6A/A7A/A7B/D5A/D5B/D5L/D5N/D5P/D5R/D5T]	4579
	UMA 2.4 GDI -IMMO 18MY(ULEV/2WD) : 39100-2GGF3 [2WD_UMAINC4EMA6A/A7A/A7B/D5A/D5B/D5K/D5M/D5O/D5Q/D5S]	2574
	UMA 2.4 GDI -IMMO 18MY(ULEV/4WD) : 39100-2GGH3 [4WD_UMAINC4EMA6A/A7A/A7B/D5A/D5B/D5L/D5N/D5P/D5R/5DT]	2179
#876	UMA PE 2.4 GDI +IMMO/SMK 19MY(ULEV/2WD): 39171-2GMNO [2WD_UPAJNC4ERE1A/E1B/E1C/E1D/G1A/G1B/G1C/G1D]	5932
	UMA PE 2.4 GDI +IMMO/SMK 19MY(ULEV/4WD): 39171-2GMN1 [4WD_UPAJNC4ERE1A/E1B/E1C/E1D/G1K/G1L/G1M/G1N]	3211
	UMA PE 2.4 GDI -IMMO 19MY(ULEV/2WD) : 39173-2GMA0 [2WD_UPAJNC4EME1A/E1B/E1C/E1D/G1A/G1B/G1C/G1D]	8872
	UMA PE 2.4 GDI -IMMO 19MY(ULEV/4WD) : 39173-2GMA1 [4WD_UPAJNC4EME1A/E1B/E1C/E1D/G1K/G1L/G1M/G1N]	5252
#877	UMA PE 2.4 GDI +IMMO/SMK 20MY(ULEV): 39171-2GMN2/N3	2468
	UMA PE 2.4 GDI -IMMO 20MY(ULEV): 39173-2GMA2/A3	3322
#890	JF/JFa 2.4 GDI +IMMO/SMK 18MY(ULEV) : 39108-2GGC7	8719
	JF/JFa 2.4 GDI -IMMO 18MY(ULEV) : 39108-2GGC2	4544
	JF/JFa 2.4 GDI +IMMO/SMK 18MY(SULEV) : 39108-2GGD7	1083
	JF/JFa 2.4 GDI -IMMO 18MY(SULEV) : 39108-2GGD2	6922
	JF/JFa PE 2.4GDI SULEV +IMMO/SMK(20MY): 39171-2GJL1	1624
	JF/JFa PE 2.4GDI SULEV -IMMO(20MY): 39171-2GJL6	6349

Continued ...

SUBJECT:

THETA II 2.4L GDI EMISSIONS ECM LOGIC IMPROVEMENT (SC340)

#878	JFa PE 2.4GDI ULEV +IMMO/SMK(19MY): 39171-2GJK0	7222
	JFa PE 2.4GDI ULEV -IMMO(19MY): 39171-2GJK5	5744
	JFa PE 2.4GDI SULEV +IMMO/SMK(19MY): 39171-2GJL0	9911
	JFa PE 2.4GDI SULEV -IMMO(19MY): 39171-2GJL5	3455
	JFa PE 2.4GDI ULEV +IMMO/SMK(20MY): 39171-2GJK1	4342
	JFa PE 2.4GDI ULEV -IMMO(20MY): 39171-2GJK6	7230
	JFa PE 2.4GDI SULEV +IMMO/SMK(20MY): 39171-2GJL1	1624
	JFa PE 2.4GDI SULEV -IMMO(20MY): 39171-2GJL6	6349
#879	QL 2.4GDI ULEV +IMMO/SMK(19MY/2WD): 39100-2GHR7	2794
	QL 2.4GDI ULEV +IMMO/SMK(19MY/4WD): 39100-2GHS7	7266
	QL 2.4GDI ULEV -IMMO(19MY/2WD): 39100-2GHS2	6345
	QL 2.4GDI ULEV -IMMO(19MY/4WD): 39100-2GHT2	2727
	QL 2.4GDI SULEV +IMMO/SMK(19MY/2WD): 39100-2GHT7	6360
	QL 2.4GDI SULEV +IMMO/SMK(19MY/4WD): 39100-2GHV7	4729
	QL 2.4GDI SULEV -IMMO(19MY/2WD): 39100-2GHV2	2249
	QL 2.4GDI SULEV -IMMO(19MY/4WD): 39100-2GHW2	3791
	QL PE 2.4GDI ULEV +IMMO/SMK(20MY/2WD): 39171-2GRA1/B1	3332
	QL PE 2.4GDI ULEV +IMMO/SMK(20MY/4WD): 39171-2GRC1/D1	2121
	QL PE 2.4GDI SULEV +IMMO/SMK(20MY/2WD): 39171-2GRE1/F1	1221
	QL PE 2.4GDI SULEV -IMMO(20MY/2WD): 39171-2GRG1/H1	3842
	QL PE 2.4GDI ULEV +IMMO/SMK(21MY/2WD): 39171-2GRA2/B2	4234
	QL PE 2.4GDI ULEV -IMMO(21MY/2WD): 39171-2GRC2/D2	4340
	QL PE 2.4GDI SULEV +IMMO/SMK(21MY/2WD): 39171-2GRE2/F2	7924
	QL PE 2.4GDI SULEV -IMMO(21MY/2WD): 39171-2GRG2/H2	2222
#891	QL 2.4 GDI +IMMO/SMK 18MY(ULEV/2WD) : 39100-2GHR6	1832
	QL 2.4 GDI -IMMO 18MY(ULEV/2WD) : 39100-2GHS1	3891
	QL 2.4 GDI +IMMO/SMK 18MY(ULEV/4WD) : 39100-2GHS6	6442
	QL 2.4 GDI -IMMO 18MY(ULEV/4WD) : 39100-2GHT1	8449
	QL 2.4 GDI +IMMO/SMK 18MY(SULEV/2WD) : 39100-2GHT6	8900
	QL 2.4 GDI -IMMO 18MY(SULEV/2WD) : 39100-2GHV1	9588
	QL 2.4 GDI +IMMO/SMK 18MY(SULEV/4WD) : 39100-2GHV6	0989
	QL 2.4 GDI -IMMO 18MY(SULEV/4WD) : 39100-2GHW1	1212

Continued...

'Manual Mode' passwords.

Event No.	Menu	Password
#914	QL PE 2.4GDI ULEV +IMMO/SMK(22MY/2WD): 39171-2GRA3	3151
	QL PE 2.4GDI ULEV +IMMO/SMK(22MY/4WD): 39171-2GRB3	3953
	QL PE 2.4GDI ULEV -IMMO(22MY/2WD): 39171-2GRC3	0625
	QL PE 2.4GDI ULEV -IMMO(22MY/4WD): 39171-2GRD3	5444
	QL PE 2.4GDI SULEV +IMMO/SMK(22MY/2WD): 39171-2GRE3	3761
	QL PE 2.4GDI SULEV +IMMO/SMK(22MY/4WD): 39171-2GRF3	4472
	QL PE 2.4GDI SULEV -IMMO(22MY/2WD): 39171-2GRG3	6678
	QL PE 2.4GDI SULEV -IMMO(22MY/4WD): 39171-2GRH3	8887
#925	QL 2.4GDI +IMMO/SMK 17MY (ULEV): 39100-2GHR5	0179
	QL 2.4GDI +IMMO/SMK 17MY (ULEV): 39100-2GHS5	0271
	QL 2.4GDI -IMMO 17MY (ULEV): 39100-2GHS0	1285
	QL 2.4GDI -IMMO 17MY (ULEV): 39100-2GHT0	1943
	QL 2.4GDI +IMMO/SMK 17MY (SULEV): 39100-2GHT5	2200
	QL 2.4GDI +IMMO/SMK 17MY (SULEV): 39100-2GHV5	5312
	QL 2.4GDI -IMMO 17MY (SULEV): 39100-2GHV0	7880
	QL 2.4GDI -IMMO 17MY (SULEV): 39100-2GHW0	8350
#920	JF/JFa 2.4 GDI +IMMO/SMK 16MY(ULEV): 39108-2GGC5	1617
	JF/JFa 2.4 GDI -IMMO 16MY(ULEV): 39108-2GGC0	9346
	JF/JFa 2.4 GDI +IMMO/SMK 16MY(SULEV): 39108-2GGD5	8685
	JF/JFa 2.4 GDI -IMMO 16MY(SULEV): 39108-2GGD0	0023
	JF/JFa 2.4 GDI +IMMO/SMK 17MY(ULEV): 39108-2GGC6	7489
	JF/JFa 2.4 GDI +IMMO/SMK 17MY(ULEV): 39108-2GGC8	6060
	JF/JFa 2.4 GDI -IMMO 17MY(ULEV): 39108-2GGC1	1196
	JF/JFa 2.4 GDI -IMMO 17MY(ULEV): 39108-2GGC3	0766
	JF/JFa 2.4 GDI -IMMO 17MY(ULEV): 39108-2GGL1	3629
	JF/JFa 2.4 GDI -IMMO 17MY(ULEV): 39100-2GGL2	7651
	JF/JFa 2.4 GDI +IMMO/SMK 17MY(SULEV): 39108-2GGD6	2996
	JF/JFa 2.4 GDI +IMMO/SMK 17MY(SULEV): 39108-2GGD8	9931
	JF/JFa 2.4 GDI -IMMO 17MY(SULEV): 39108-2GGD1	8917
	JF/JFa 2.4 GDI -IMMO 17MY(SULEV): 39108-2GGD3	4679
	JF/JFa 2.4 GDI -IMMO 17MY(SULEV): 39108-2GGM1	9252
	JF/JFa 2.4 GDI -IMMO 17MY(SULEV): 39100-2GGM2	8051

SUBJECT:

THETA II 2.4L GDI EMISSIONS ECM LOGIC IMPROVEMENT (SC340)**ATTENTION: THE PROOF OF CORRECTION CARD AND CAMPAIGN COMPLETION LABEL ARE RESTRICTED ONLY TO DEALERS IN THE FOLLOWING STATES:**

California, Connecticut, Delaware, Massachusetts, Maine, Maryland, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont, and Washington. See Parts Information below to order the Proof of Correction Card and Campaign Completion Label from the PDC.

VEHICLE EMISSION RECALL - PROOF OF CORRECTION CARD

A Vehicle Emission Recall - Proof of Correction card must be filled out for all vehicles registered in California, Connecticut, Delaware, Massachusetts, Maine, Maryland, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont, and Washington. Residents of these states, who own an affected vehicle, will be required to possess a Vehicle Emission Recall - Proof of Correction card as evidence of voluntary service campaign completion, when they apply for vehicle registration renewal.

WHAT TO DO WITH THE CARD:

The Vehicle Emission Recall - Proof of Correction card must be completed by the Dealership's Service Manager using a permanent ink pen. A fine point pen is recommended. When filling in the information, copy the information directly from the vehicle, not the repair order. **ALL INFORMATION MUST BE PRINTED AND NEAT.**

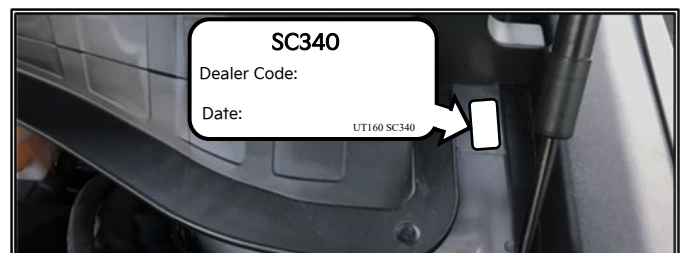
NOTE: DO NOT COMPLETE THE CARD UNLESS THE SERVICE CAMPAIGN WORK IS COMPLETED.

The copy of the card shown below indicates the areas to be filled in. Each area must be filled in. The completed card should be given to the owner of the vehicle upon completion of the Campaign and placement of the Campaign Completion Label outlined below...

FILLING OUT AND APPLYING THE CAMPAIGN COMPLETION LABEL (CA and S.177 STATES ONLY):

The dealer must fill in the Dealer Code and Date information fields on the Campaign Completion Label. Once complete, affix the campaign completion label under the hood of the vehicle, as shown below.

CA and S.177 States Only: Apply SC340 Campaign Completion Label onto the body in the area next to the shock tower, as shown. **NOTE: Be sure to clean the mounting surface to ensure proper label adhesion.**




SUBJECT:



THETA II 2.4L GDI EMISSIONS ECM LOGIC IMPROVEMENT (SC340)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Optima (JF, JFa)	August 28, 2015 to June 23, 2020
Sorento (UMa)	October 27, 2014 to November 4, 2020
Sportage (QL)	December 10, 2015 to December 7, 2021

REQUIRED TOOL:

Tool Name	Part Number	Figure	Comments
Kia Diagnostic System (KDS)	N/A		KDS + VCI

REQUIRED PART:

Part Name	Part Number	Figure	Qty.	Comments
Vehicle Emissions Recall Proof of Correction Card	UT161 SC340		1	N/A
Campaign Completion Label	UT160 SC340		1	N/A

SUBJECT:

THETA II 2.4L GDI EMISSIONS ECM LOGIC IMPROVEMENT (SC340)

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Model MY	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
JF 16-18MY	R	39108 2GGC7	0	(SC340) 2.4L GDI Theta II Emissions Logic Improvement	250067R1	0.3 M/H	N/A	0
JFa 16-20MY		39108 2GGC5			250A21RO			
UMa 18-20MY		39713 2GMA0			250A21R1			
QL 17-18 MY		39100 2GHJ0			250067RO			
QL 19-22MY		39161 2GRA1						
UMa 16-17MY	R	TBD	0	Software Release (Under Development and will be released at different stages)	TBD	M/H	N/A	0

Note: Refer to [Warranty Bulletin 2025-28](#) for claim submission procedures. For Substitute Transportation policy, please refer to [Service Policy and Procedures Manual \(SPPM\) 6.11 "Kia Substitute Transportation"](#).

 NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference [SC340](#) when accessing the KDealer+ system.

