



GROUP	MODEL
ENG	2023MY Multiple Models (see table on p. 7)
NUMBER	DATE
239 (Rev 1, 04/19/2023)	June 2022

TECHNICAL SERVICE BULLETIN

SUBJECT:

DATA COLLECTION: EXTRACT CALIFORNIA EMISSIONS DATA FROM ECU (DC23)

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 related to extracting “in use performance tracking” emissions data from the Engine Control Unit (ECU) of certain vehicles sold in California. The California Air Resources Board (CARB) requires the emissions data from vehicles with a minimum of 3,000 accumulated miles without reprogramming or resetting. To facilitate collection of this data at the dealer level, KDS screenshots will allow the capture of relevant parameters. Note that a “Web Based” KDS IUMPR Data Collection procedure is outlined. Reference TSB [SST064](#).

NOTICE

If the vehicle meets the criteria below, California dealers must perform this data collection on vehicles whenever an affected vehicle is in the shop and prior to any campaign, maintenance or repair-related activities.

This data collection does not apply to vehicles or dealers operating outside of California.

Once sufficient data is collected, individual line items per model may be closed without updates to the TSB. Once a line item is closed on DCS, no further data collection is required. Data collections initiated after a line item is closed are subject to chargeback.

For vehicles listed on DCS as requiring this procedure, follow the instructions in this bulletin after confirming that the following criteria are met:

- WebDCS shows this as an open Data Collection code DC23XXXX (depending on model; see table on page 7) for the vehicle.
- Vehicle has more than 3,000 accumulated miles on its odometer.
- Vehicle repair history does not show battery replacement/disconnection/reset or an ECU update done in the last 3,000 miles, because IUMPR (In Use Monitor Performance Ratio) data would have been cleared by such an event.
- Vehicle does not have a Malfunction Indicator Lamp (MIL) ON.

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❗ IMPORTANT

A number of received data submittals are incomplete and are therefore not usable. Examples: Invalid R/O number, incomplete VECI label Group number, no mileage reported, etc. In order to ensure 100% complete and valid data submittals as well as to ensure related warranty claims will be processed without delay and not be subject to chargebacks, carefully review and adhere to the updated process steps below.

KDS Service Procedure:

📄 NOTICE

Starting on May 31, 2019 with the release of KDS Internet Update M-N-K-01-00-0135, the new IUMPR function will be loaded onto the KDS. Once installed, all IUMPR data will be electronically transmitted by KDS when connected to internet.

1. Open the engine compartment and locate the Vehicle Emission Control Information label located on the underside of the hood.

Record the 11-digit "Group" number (A) for later entry into screen.

KIA KIA MOTORS CORPORATION VEHICLE EMISSION CONTROL INFORMATION		
Conforms to regulations :		20XX MY
U.S.EPA : T3B125LDV	OBD : CA II	Fuel : Gasoline
California : LEV III ULEV125	OBD : CA II	Fuel : Gasoline
No adjustments needed.		R-HO2S/HO2S/WU-TWC/TC/CAC
Group : JKMXV02.04X6	AA22	32431-2CCA1
Evap. : JKMXR0140DYE		

2. Connect the VCI-II to the OBD-II connector, located under the driver's side of the instrument panel.



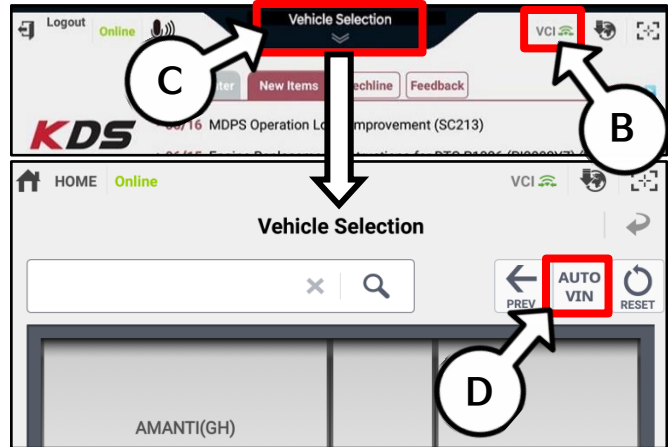
3. With the ignition ON, turn ON the KDS tablet. Select 'KDS' from the home screen.



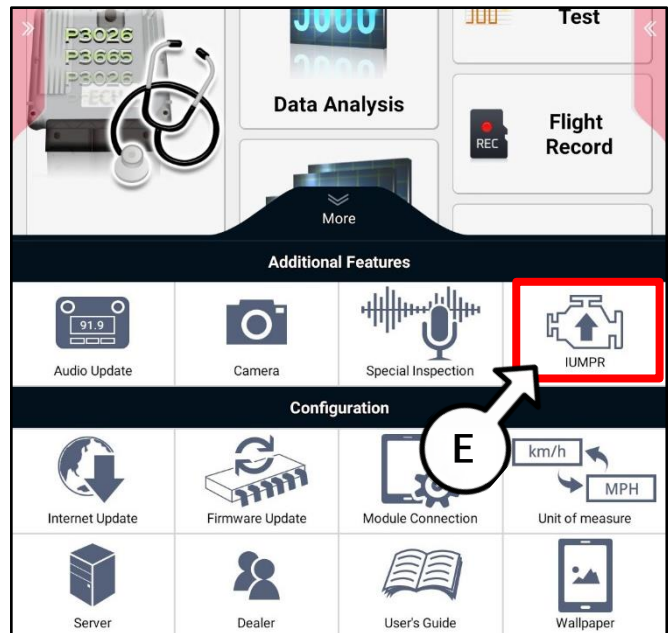
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- Confirm communication with VCI (B) and then configure the vehicle (C) using the 'AUTO VIN' (D) feature.



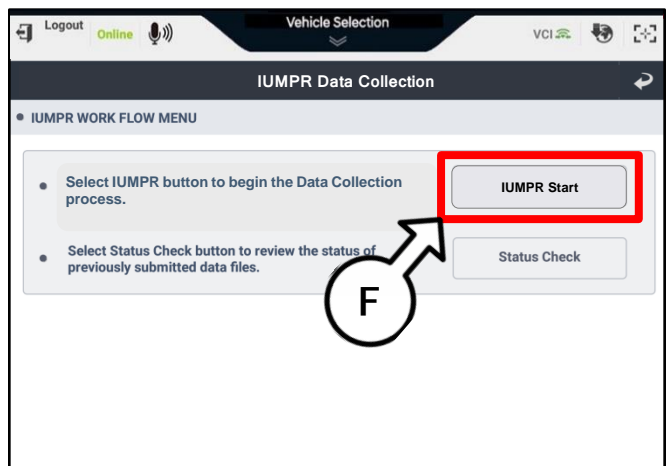
- Select the 'IUMPR' function (E) from the More section after pulling it up from the bottom of the screen.



- Select 'IUMPR Start' (F).

NOTICE

Make sure KDS is connected to the internet. It must be able to confirm the vehicle has an open DC 23 Data Collection.



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- The IUMPR Data Collection screen should open in the event the vehicle has an open DC 23 Data Collection.

NOTICE

You may receive an error screen if vehicle does not have an open DC 23 Data Collection, or if any of the other conditions specified on page 1 does not apply.

The screenshot shows the 'IUMPR Data Collection' screen with the following fields: Dealer Code (CA210), Mileage, Technician Name, Repair Order Number, and Test Group (with sub-fields for 1234567 and 1234). Buttons for 'Previous' and 'IUMPR Data Collection Start' are visible at the bottom.

- Enter the applicable information (G) accurately into each field.

NOTICE

Test Group is found on the engine underhood emission label. Refer to step 1, on page 2.

This screenshot is similar to the previous one but includes a red rectangular box around the input fields and a callout bubble labeled 'G' pointing to the Test Group field.

- The following screen confirms your entered information and the first page of collected IUMPR data.

NOTICE

Confirm the correct VIN (H) was successfully captured by the initial KDS Auto VIN.

The screenshot shows the 'IUMPR Data Collection Start Result' screen. It displays a summary of data including Date (05/06/2019), Time (03:55:50 PM), Dealer Code (CA210), Model Year (2019), Vehicle Model (OPTIMA(JFA)), Engine (G 2.4 GDI THETA II), ECU CAL ID (ROM ID) (JPAJNS4ERE3C), TCU CAL ID (ROM ID) (TJFSG24SH0), VIN (5XXGM4A...), DTC Set In ECM (No), Technician Name (KMA), Mileage (5000), and RO Number (123456). Below this is a table of sensor data.

Sensor Name(33)	Module ID	Value	Unit
OBD Monitoring Conditions Encountered Counts	E8	7	Count
Ignition Counter	E8	380	Count
Catalyst Monitor Completion Counts-Bank1	E8	4	Count
Catalyst Monitor Conditions Encountered Counts-Bank1	E8	7	Count
Catalyst Monitor Completion Counts-Bank2	E8	0	Count



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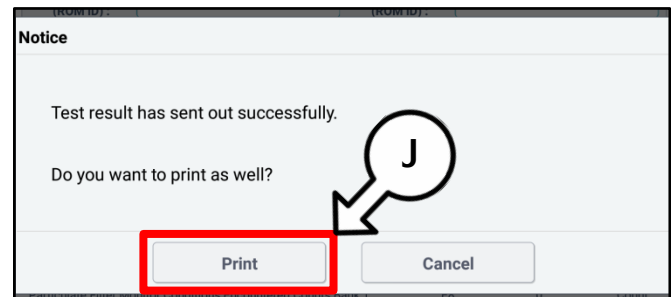
10. Scroll the screen down to the second page until the 'Send' (I) button appears.

Select 'Send' (I) to transmit collected data to Kia's server.

Sensor Name(33)	Module ID	Value	Unit
Air Fuel Ratio Imbalance Monitor Completion Counts Bank 2	E8	0	Count
Air Fuel Ratio Imbalance Monitor Conditions Encountered Counts Bank 2	E8	0	Count
Particulate Filter Monitor Completion Counts Bank 1	E8	0	Count
Particulate Filter Monitor Conditions Encountered Counts Bank 1	E8	0	Count
Particulate Filter Monitor Completion Counts Bank 2	E8	0	Count
Particulate Filter Monitor Conditions Encountered Counts Bank 2	E8	0	Count
Certification Test Group/Engine Family Number	E8	KKMXV02.4DH3	-
Ignition Counter (Recent)	E8	0	Count
Total Distance Traveled (Recent)	E8	0	km
Positive Kinetic Energy (Recent)	E8	0	km/h2
Total Propulsion System Active Time (Recent)	E8	0	Sec

11. This screen will confirm KDS has successfully electronically transmitted the vehicle's IUMPR data to Kia's server.

Select 'Print' (J) to get a record of the IUMPR data collection to attach to the repair order as evidence of collection.

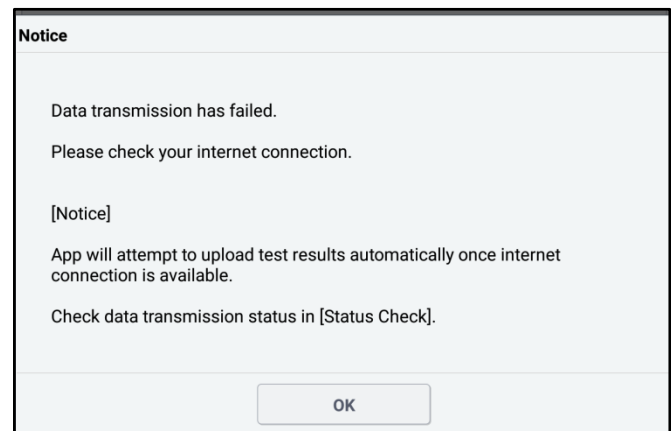


NOTICE

Submission of screenshots by KDS Feedback is no longer required for claim payment. The data will be transmitted electronically by KDS.

12. If the event of an unsuccessful transmission of data, the following error screen may occur:

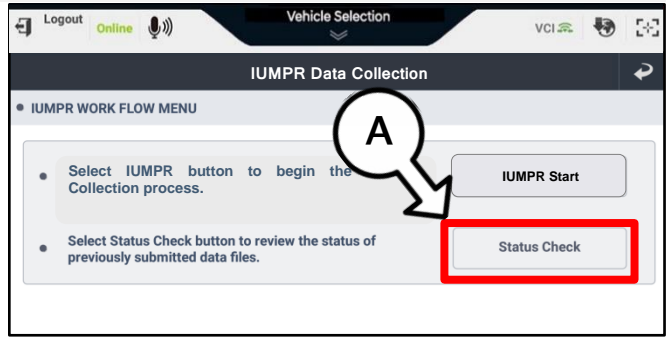
- a) Refer to **Checking IUMPR Data Transmission Status** on page 6 to confirm if status shows "pending", meaning that the data has been captured by KDS and will automatically be sent when internet is later restored.
- b) Should **Checking IUMPR Data Transmission Status** not show a status of "pending" or "sent" for the applicable VIN, then the above collection procedure steps 1-11 will need to be repeated.



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Checking IUMPR Data Transmission Status:

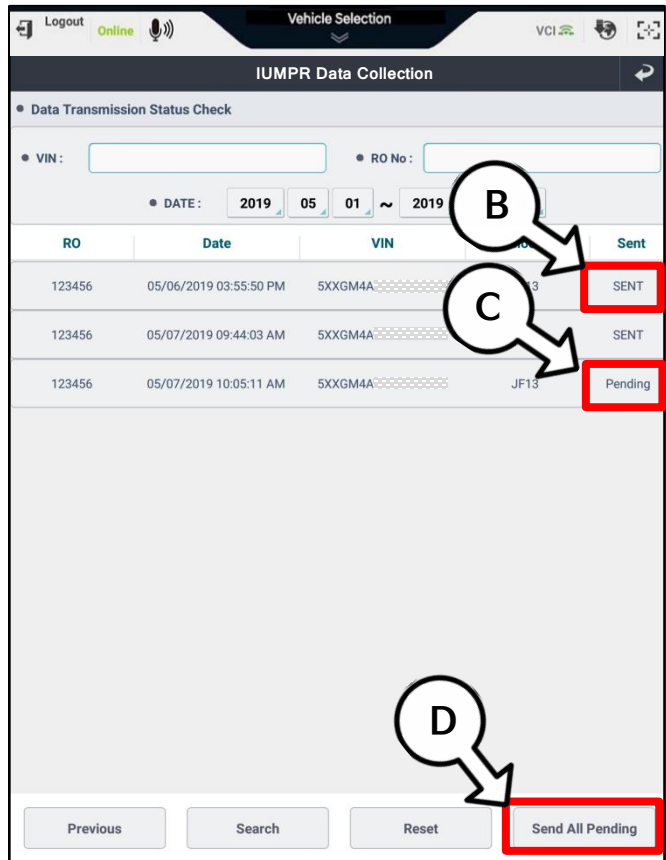
1. Select 'Status Check' (A) from the DC Data Collection screen.



2. The Data Transmission Status Check screen will display the following:

(B) **Sent** indicates IUMPR data has been sent successfully to Kia's server.

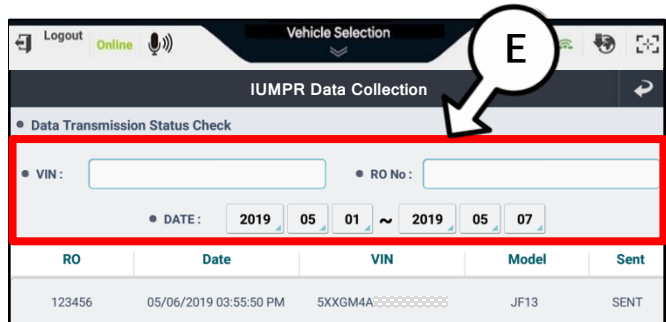
(C) **Pending** indicates IUMPR data was collected and saved in KDS, but remains to be sent automatically to the Kia server once an internet connection is later established.



NOTICE
 You may try **'Send All Pending' (D)** if you have just connected to the internet, otherwise it will be sent automatically once internet is restored. You can confirm transmission status later.

3. A particular VIN or R/O number or Date range (E) can be entered at the top search section to find past collected data sent from the KDS.

NOTICE
 To display past collected data, select any case on the list to view it.



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AFFECTED VEHICLE RANGE:

Model	Production Date Range
Multiple Models Listed Below in Warranty Table	2023MY (Sold in California only)

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Campaign ID	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
DC23KA41	V	100CA EM999	0	Carnival (KA4) 3.5L (ULEV)	23KA4351	0.4 M/H	N/A	0
DC23BD1				Forte (BD/BDm) 1.6L-T (ULEV)	23BD16U1			
DC23BD2				Forte (BD/BDm) 2.0L (SULEV)	23BD20S1			
DC23DL31				K5 (DL3a) 1.6L-T (ULEV)	23DL3161			
DC23DL32				K5 (DL3a) 2.5L-T (ULEV)	23DL3251			
DC23SG2H				Niro HEV (SG2 HEV) 1.6L (SULEV)	23SG2H16			
DC23SG2P				Niro PHEV (SG2 PHEV) 1.6L (SULEV)	23SG2P16			
DC23SC1				Rio (SC) 1.6L (ULEV)	23SC16U1			
DC23SP21				Seltos (SP2) 1.6L (ULEV)	23SP2161			
DC23SP22				Seltos (SP2) 2.0L (ULEV)	23SP2201			
DC23MQ41				Sorento (MQ4) 2.5L-T (ULEV)	23MQ4251			
DC23MQ42				Sorento (MQ4) 2.5L (ULEV)	23MQ4252			
DC23MQ43				Sorento HEV (MQ4 HEV) 1.6L-T (SULEV)	23MQ4161			
DC23MQ44				Sorento PHEV (MQ4 PHEV) 1.6L-T (SULEV)	23MQ4162			
DC23SK31				Soul (SK3) 2.0L (SULEV)	23SK3201			
DC23SK32				Soul (SK3) 2.0L (ULEV)	23SK3202			
DC23NQ51				Sportage (NQ5) 2.5L (ULEV)	23NQ5251			
DC23NQ52				Sportage HEV (NQ5 HEV) 1.6L-T (SULEV)	23NQ5161			
DC23NQ53				Sportage PHEV (NQ5 PHEV) 1.6L-T (SULEV)	23NQ5162			
DC23CK1				Stinger (CK) 3.3L-T (ULEV)	23CK33U1			
DC23CK2				Stinger (CK) 2.5L-T (ULEV)	23CK25U1			
DC23ON1				Telluride (ON) 3.8L (ULEV)	23ON38U1			