



GROUP
ENG

MODEL
2021MY
Multiple Models
(see table on p. 7)

NUMBER
216 (Rev 1, 10/14/2020)

DATE
May 2020

TECHNICAL SERVICE BULLETIN

SUBJECT:

**DATA COLLECTION: EXTRACT CALIFORNIA
EMISSIONS DATA FROM ECU (DC21)**

* 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 for any maintenance or repair.

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 DC21XXXX (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.

Printed TSB copy is for reference only; information may be updated at any time.
Always refer to KGIS for the latest information.

Circulate To: General Manager Service Manager Parts Manager
 Service Advisors Technicians Body Shop Manager Fleet Repair

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*** NOTICE**

If a vehicle meets the above criteria, collect data prior to any other campaign or repair-related activities.

*** 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 MOTORS CORPORATION VEHICLE EMISSION CONTROL INFORMATION	
Conforms to regulations :	20XX MY	
U.S.EPA : T3B125LDV	OBD : CA II	Fuel : Gasoline
California : LEV III ULEV125PC	CA II	Fuel : Gasoline
No adjustments needed.	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.



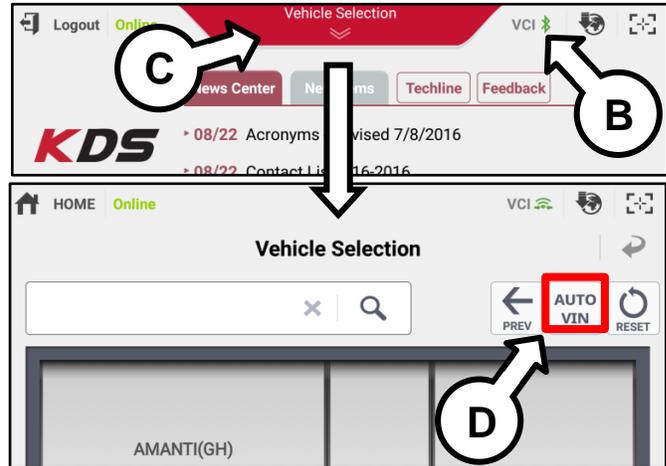
3. With the ignition ON, turn ON the KDS tablet. Select **KDS** from the home screen.



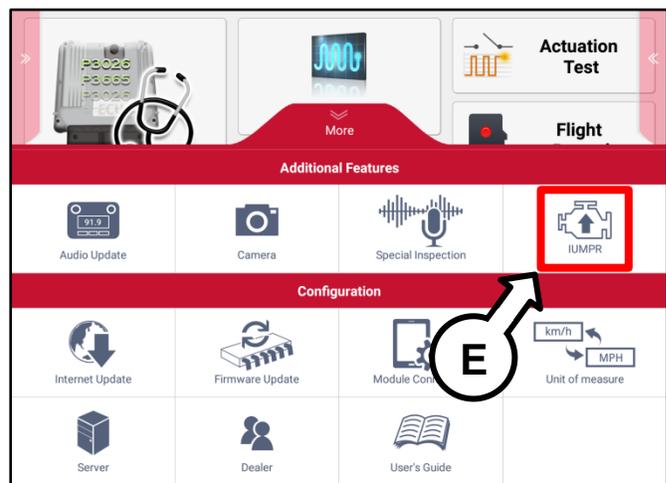
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- Confirm communication with VCI (B) and then configure the vehicle (C) using the **AUTO VIN** (D) feature.

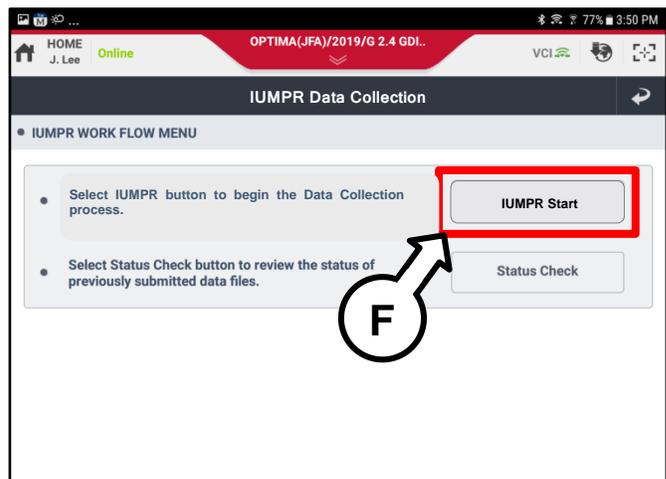


- Select the **IUMPR** function (E) from the **More** section after pulling it up from the bottom of the screen.



- 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 21 Data Collection.



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- The IUMPR Data Collection screen should open in the event the vehicle has an open DC 21 data collection.

★ NOTICE

You may receive an error screen if vehicle does not have an open DC 21 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 (empty), Technician Name (empty), Repair Order Number (empty), and Test Group (empty). There are 'Previous' and 'IUMPR Data Collection Start' buttons 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 the step 1, on page 2.

The screenshot shows the same 'IUMPR Data Collection' screen as above, but with a red rectangular box highlighting the input fields. A callout bubble with the letter 'G' and an arrow points to the Test Group field, which now contains '1234567' and '1234'.

- 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 collected information:

- 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: 5XXGM4A70FG456156 (highlighted with a red box and callout 'H')
- DTC Set In ECM: No
- Technician Name: KMA
- Mileage: 5000
- ROM ID: 123456
- Test Group: 1234567.1234

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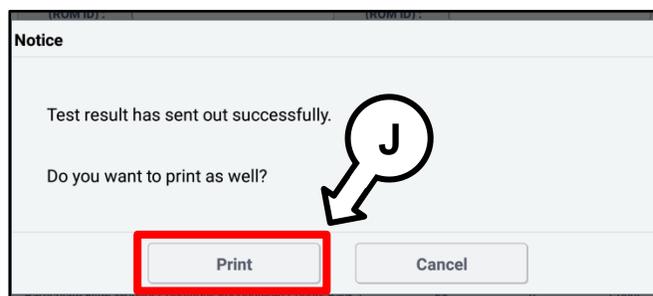
10. Scroll the screen down to the second page until the **Send (I)** button appears.

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/h ²
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.



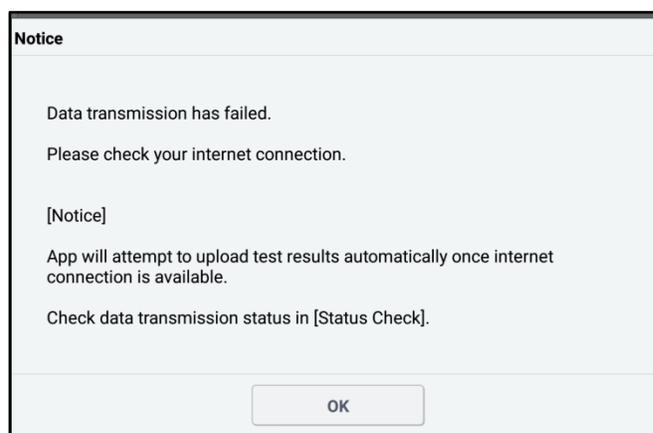
* NOTICE

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.

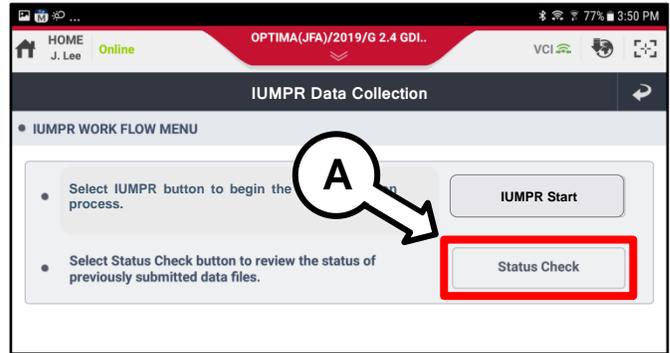
b) Should **Checking IUMPR Data Transmission Status** not show a status of **pending** or **sent** for the applicable VIN, then the above collection procedure steps 1-11 will need to be repeated.



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Checking IUMPR Data Transmission Status:

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

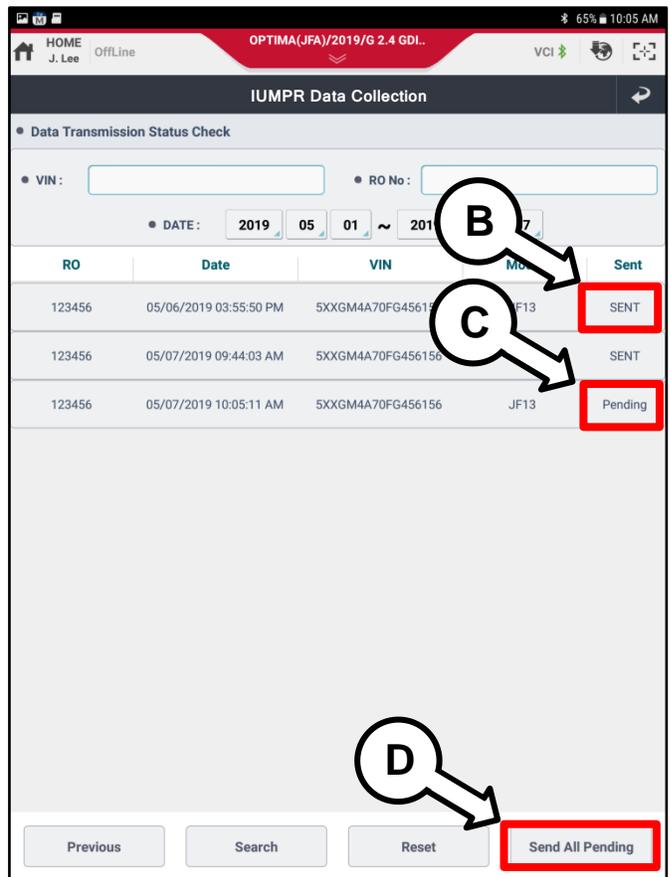


2. The **Data Transmission Status Check** screen will display the following:

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

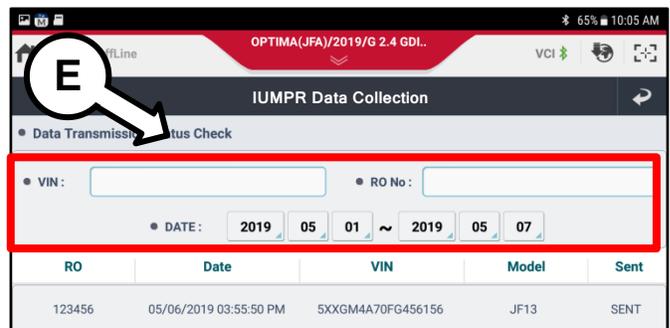
(C) **Pending** indicates IUMPR data was collected and saved in KDS, but remains to be sent automatically to the Kia server once an internet connection is later established.

*** NOTICE**
 You may try **Send All Pending** 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 the Warranty Table	2021MY (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.
DC21BD1	V	100CA EM999	0	Forte (BDm) 1.6L-T	21BD16U1	0.4 M/H	N/A	0
DC21BD2				Forte (BDm) 2.0L (ULEV)	21BD20U1			
DC21BD3				Forte (BDm) 2.0L (SULEV)	21BD20S1			
DC21CK1				Stinger (CK) 2.0L-T	21CK20U1			
DC21CK2				Stinger (CK) 3.3L-T	21CK33U1			
DC21DL31				K5 (DL3a) 1.6L-T	21DL3161			
DC21ON1				Telluride (ON) 3.8L	21ON38U1			
DC21QL1				Sportage (QL) 2.0L-T	21QL20U1			
DC21QL2				Sportage (QL) 2.4L ULEV	21QL24U1			
DC21QL3				Sportage (QL) 2.4L SULEV	21QL24S1			
DC21SK31				Soul (SK3) 1.6L-T ULEV	21SK3161			
DC21SK32				Soul (SK3) 2.0L ULEV	21SK3201			
DC21SK33				Soul (SK3) 2.0L SULEV	21SK3202			
DC21SP21				Seltos (SP2) 1.6L-T ULEV	21SP2161			
DC21SP22				Seltos (SP2) 2.0L ULEV	21SP2201			
DC21YP1				Sedona (YP) 3.3L	21YP33U1			

