



GROUP ENG	MODEL 2020MY Niro (DE P/HEV)
NUMBER 221	DATE August 2020

TECHNICAL SERVICE BULLETIN

**SUBJECT: SERVICE ACTION: ACTIVE AIR FLAP (AAF)
MIL ON JUDGMENT LOGIC IMPROVEMENT (SA429)**

This bulletin provides the procedure to improve the logic of the Active Air Flap (AAF) on some 2020MY Niro (DE P/HEV) vehicles, produced from November 1, 2019 through July 17, 2020. This will improve the judgment logic which may exhibit a MIL ON with DTC(s) P059F and/or P05B2. To correct this concern, apply the improved logic to the ECU using the KDS ECU Upgrade function as described in this bulletin. For confirmation that the latest reflash has been applied to a vehicle you are working on, verify the ROM ID using the table on page 4 of this bulletin. Before conducting the procedure, verify the vehicle is included in the list of affected VINs.

DTC Description:

P059F – Active Grille Air Shutter “A” Performance/Stuck Off

P05B2 - Active Grille Air Shutter “B” Control Circuit Range/Performance



Kia Diagnostic System (KDS)

* NOTICE

A Service Action is a repair program without customer notification that is performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.

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

This issue number is **SA429**.

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

SUBJECT:

**SERVICE ACTION: ACTIVE AIR FLAP (AAF)
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To correct this condition, the ECU should be reprogrammed using the KDS download, as described in this bulletin.

Upgrade Event Name**504. DE PE HEV/PHEV AAF MIL ON DTC JUDGMENT LOGIC IMPROVEMENT (P059F, P05B2)***** NOTICE**

- A fully charged battery is necessary before the ECU upgrade can take place. It is recommended that a battery charger is used in ECU mode during the reflash or the use of a fully charged jump starter box connected to the battery.
- DO NOT connect any other battery charger to the vehicle during the ECU upgrade.
- Ensure the KDS or GDS is sufficiently charged prior to the reflash.
- All ECU upgrades must be done with the ignition key in the 'ON' position.
- Be careful not to disconnect the VCI-II connected to the vehicle during the ECU upgrade procedure.
- DO NOT start the engine during the ECU upgrade.
- Do NOT turn the ignition key 'OFF' or interrupt the power supply during the 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 model and model year.

*** NOTICE**

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.

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*** NOTICE**

Before attempting an ECU upgrade on any Kia model, make sure to first determine whether the particular 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:

Upgrade Event #504

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
DE P/HEV	AFF	Yes	86967 G5600	NC003M001_NC003S001 NC003M001_N1003S001 NC003M001_N1013S001 N1003M001_NC003S001 N1003M001_N1003S001 N1003M001_N1013S001 N1013M001_NC003S001 N1013M001_N1003S001	N1013M001_N1013S001

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.

*** NOTICE**

Prior to performing the ECU upgrade, be sure to check that the KDS is fully charged.

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

*** NOTICE**

The ECU upgrade function on KDS operates wirelessly. It is not necessary to perform the upgrade via USB cable.

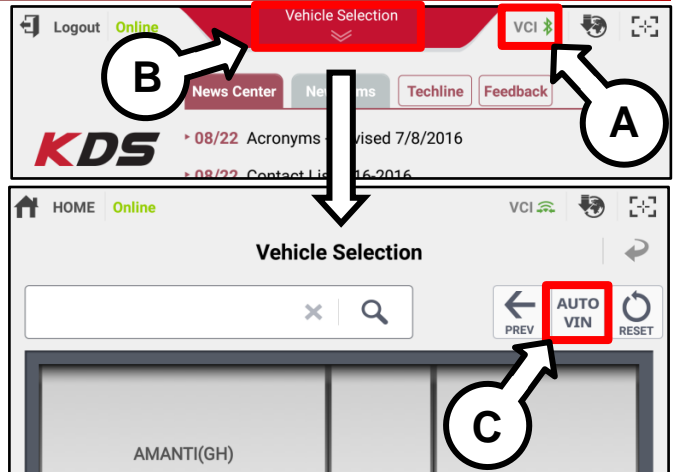


2. With the ignition ON, turn ON the KDS tablet. Select **KDS** from the home screen.

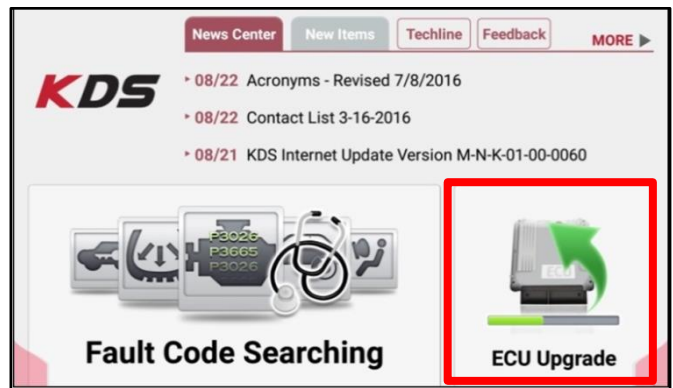


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3. Confirm communication with VCI (A) and then configure the vehicle (B) using the **AUTO VIN** (C) feature.

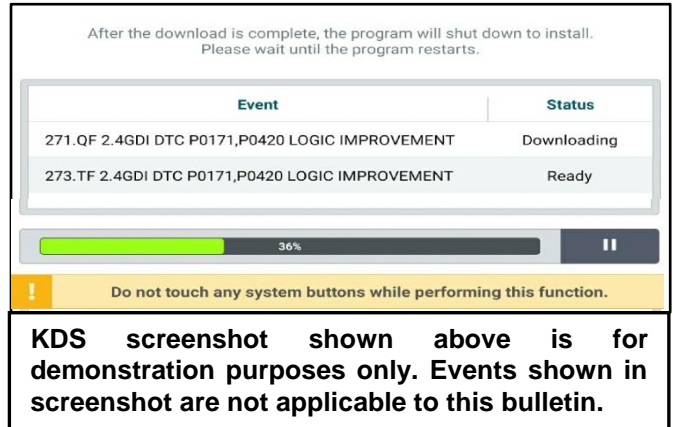


4. Select **ECU Upgrade**.



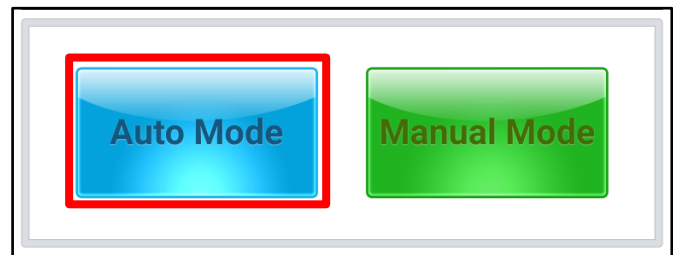
5. The KDS will check the server for recently uploaded Events and then automatically download the **Upgrade Event #504**.

*** NOTICE**
The vehicle must be identified in the Vehicle Selection to download an Event for that vehicle.



6. Select **Auto Mode**.

CAUTION
Do NOT attempt to perform a Manual Mode upgrade UNLESS Auto Mode fails. Always follow the instructions given on the KDS in either Auto or Manual mode.



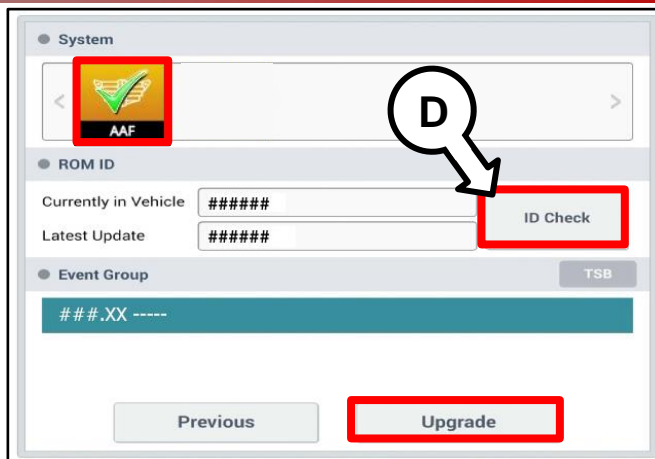
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7. Select the **AAF** system under the System selection menu.

Select **ID Check** (D) and confirm that the latest update is available.

Select **Upgrade Event #504** and select the **Upgrade** to continue.

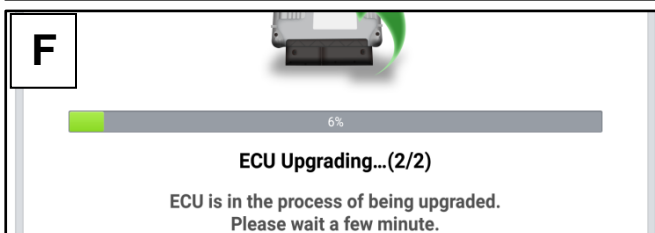
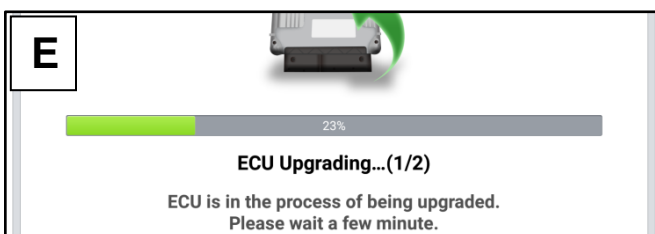


8. The ECU upgrade will begin and the progress of the upgrade will appear on the bar graph. Upgrade part (1/2) (E) will download the upgrade event to the VCI-II. Upgrade part (2/2) (F) will upgrade the ECU.

⚠ CAUTION

Do not touch the system buttons (like 'Back', 'Home', 'etc.')

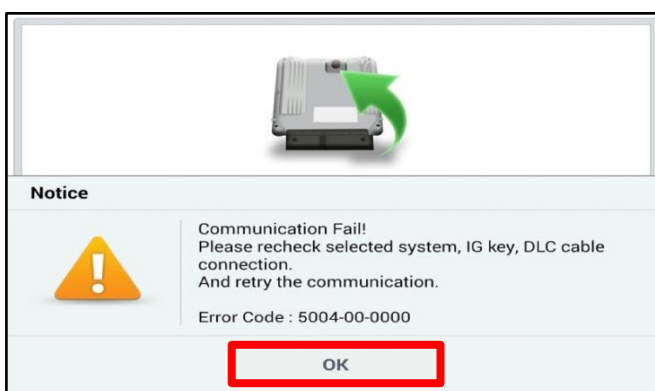
while performing ECU Upgrade.



9. If a "Communication Fail" screen appears, verify that the VCI-II and KDS are communicating properly. Touch **OK** and restart the procedure from step 4.

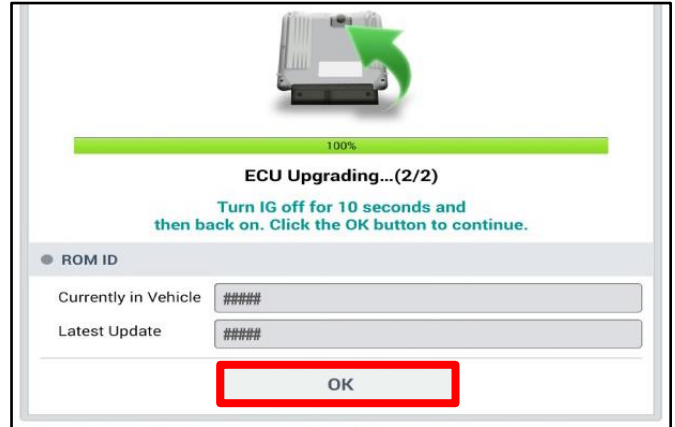
★ NOTICE

If an error notice continues to appear or if the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.

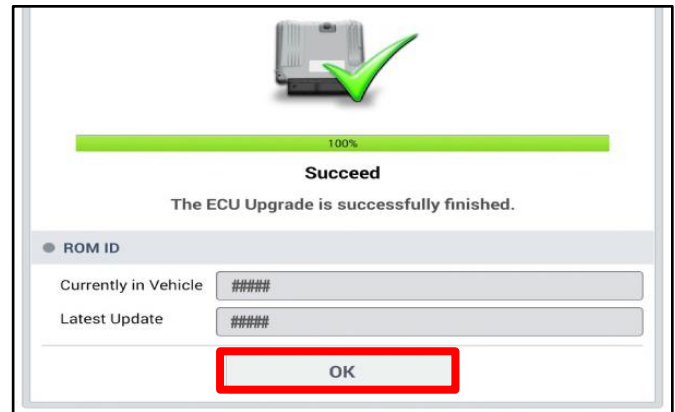


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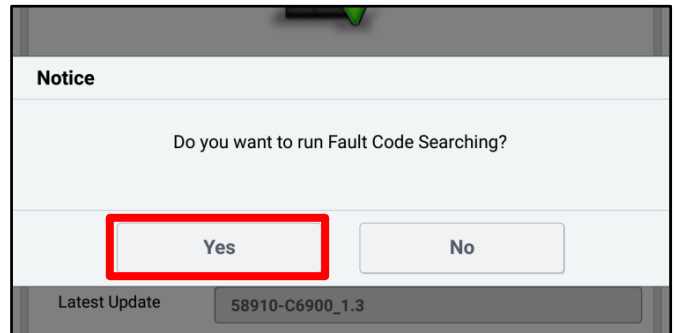
- When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Touch **OK** to continue.



- Once the upgrade is complete, touch **OK** to finalize the procedure.



- When prompted, select **YES** to check for Diagnostic Trouble Codes (DTC) and erase any DTCs stored such as EPS, ESC, and TPMS that may have been set during the upgrade.



- Start the engine to confirm proper operation of the vehicle.



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Manual Upgrade Procedure:

* NOTICE

The manual upgrade should **ONLY** be performed if the automatic upgrade fails.

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 manual upgrade.

See table below for Manual Mode passwords.

Manual Mode ECU Upgrade Passwords

Menu	Password
DE HEV/PHEV AAF : 86967,86968-G5600	0025

1. Within the ECU Upgrade screen displayed, select **Manual Mode**.
2. Select the **AAF** system under the System selection menu. Select **Upgrade Event #504** and select **Upgrade** to continue.
3. Select the appropriate control unit part number with reference to the ROM ID Information Table on page 3, and select **OK**.
4. Enter the appropriate password from the Manual Mode password table above and select **OK**.
5. The upgrade will begin and the progress of the upgrade will appear on the bar graph.
6. When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Touch **OK** to continue.
7. Once the upgrade is complete, touch **OK** to finalize the procedure.
8. When prompted, select **YES** to check for Diagnostic Trouble Codes (DTC) and erase any DTCs stored such as EPS, ESC, and TPMS that may have been set during the upgrade.
9. Start the engine to confirm proper operation of the vehicle.

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AFFECTED VEHICLE RANGE:

Model	Production Date Range
Niro (DE P/HEV)	November 1, 2019 to July 17, 2020

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
V	39110 03929	0	(SA429) AAF MIL ON Judgement Logic Improvement	200079R0	0.3 M/H	N/A	0

*** NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA429 when accessing the WebDCS system.