



GROUP

MODEL

ENG

2020MY  
Niro (DE HEV/PHEV)

NUMBER

DATE

224

January 2021

## TECHNICAL SERVICE BULLETIN

SUBJECT:

SERVICE ACTION: ACTIVE AIR FLAP (AAF)  
MIL ON JUDGMENT LOGIC IMPROVEMENT (SA459)

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 November 30, 2020, 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****NOTE:** In cases where the AAF is replaced, conduct this upgrade after part has been replaced.

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 SA459.

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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### ECU Upgrade Procedure:

To correct this condition, the ECU should be reprogrammed using the KDS download, as described in this bulletin.

#### Upgrade Event Name

517. 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.
- Ensure the KDS or GDS is sufficiently charged at 50% or higher prior to 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 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 model and model year.

### ❗ 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.

### \* 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 #517

Model	System	IMMO 	ECU P/No.	ROM ID	
				Previous	New
DE P/HEV	AAF	Yes	86967 G5600 86968 G5600	NC003M001_NC003S001 NC003M001_N1003S001 NC003M001_N1013S001 N1003M001_NC003S001 N1003M001_N1003S001 N1003M001_N1013S001 N1013M001_NC003S001 N1013M001_N1003S001 N1013M001_N1013S001	N1033M001_N1033S001

*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.



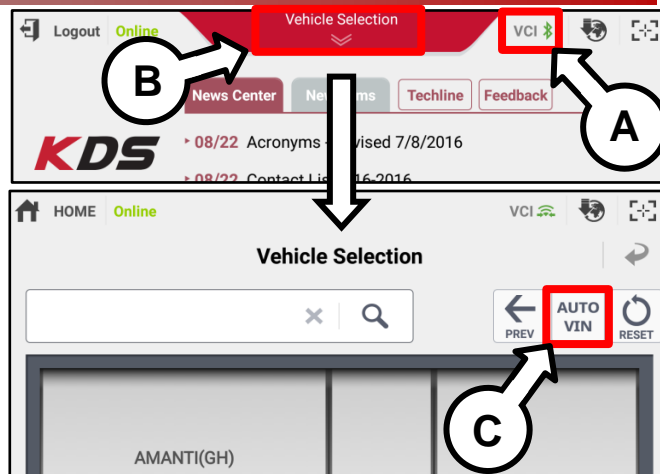
2. With the ignition ON, turn ON the KDS tablet. Select **KDS** from the home screen.



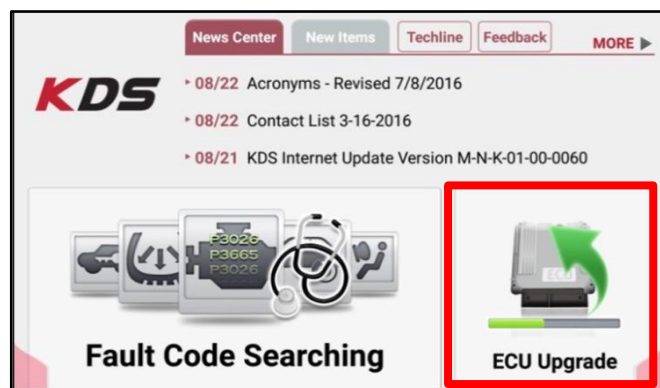
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- Confirm communication with VCI (A) and then configure the vehicle (B) using the **AUTO VIN** (C) feature.



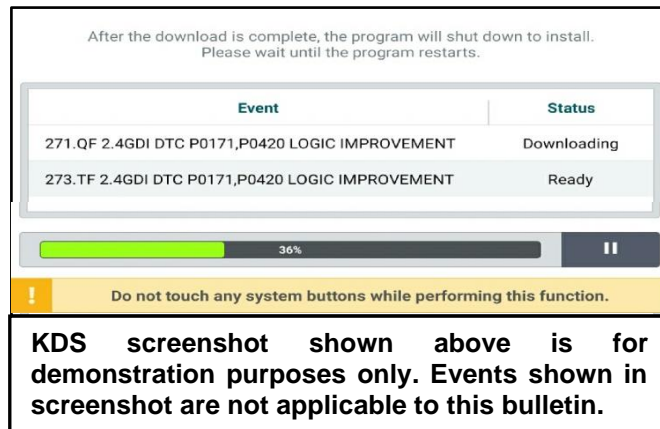
- Select **ECU Upgrade**.



- The KDS will check the server for recently uploaded Events and then automatically download **Upgrade Event 517**.

### ★ NOTICE

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

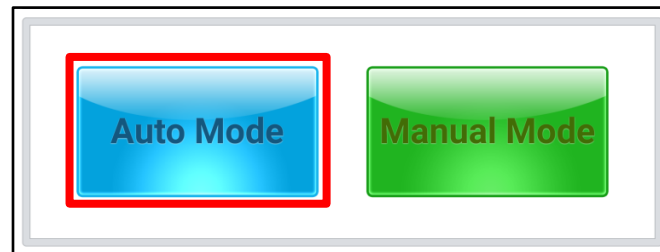


- Select **Auto Mode**.



### 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.

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

Select **Upgrade Event 517** and select **Upgrade** to continue.

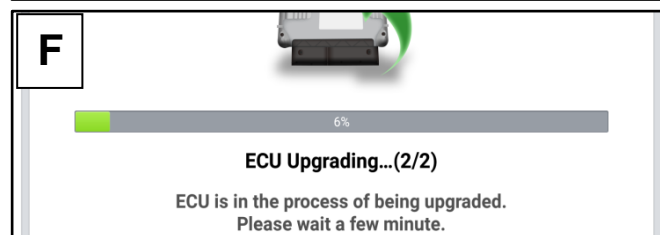
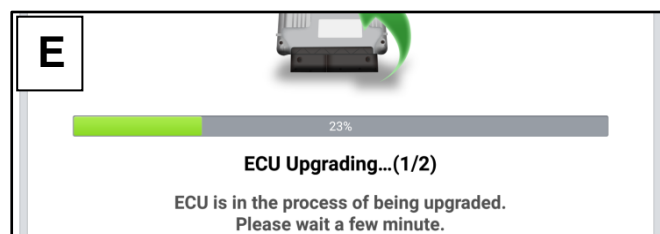


8. The ECU upgrade will begin and the progress of the upgrade will appear on the bar graph. Upgrade part (1/2) (E) will download the upgrade event to the VCI-II. Upgrade part (2/2) (F) will upgrade the ECU.



### CAUTION

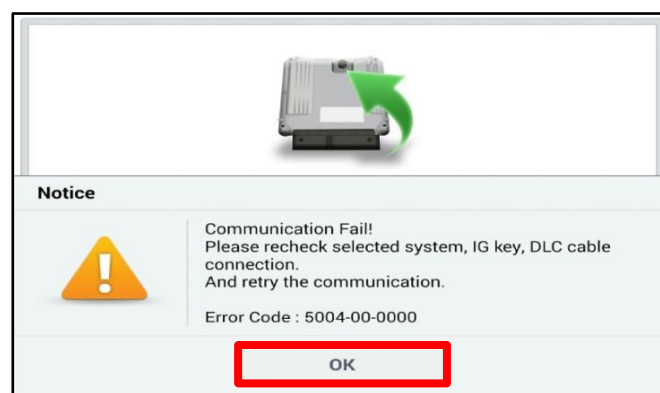
Do not touch the system buttons (like 'Back', 'Home', 'etc.') while performing ECU Upgrade.



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

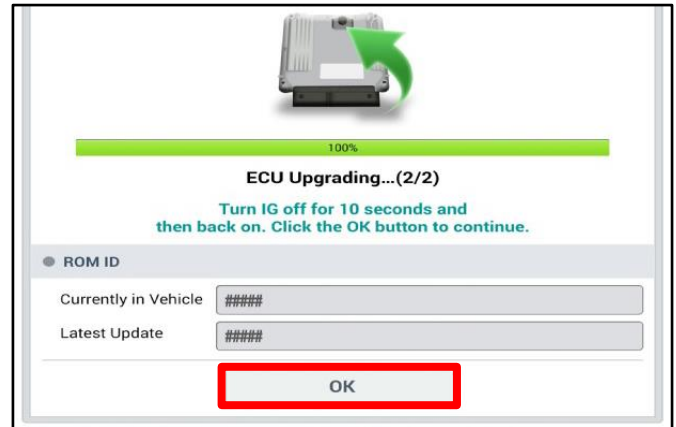
If an error notice continues to appear or if the upgrade cannot be performed, **DO NOT** disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.



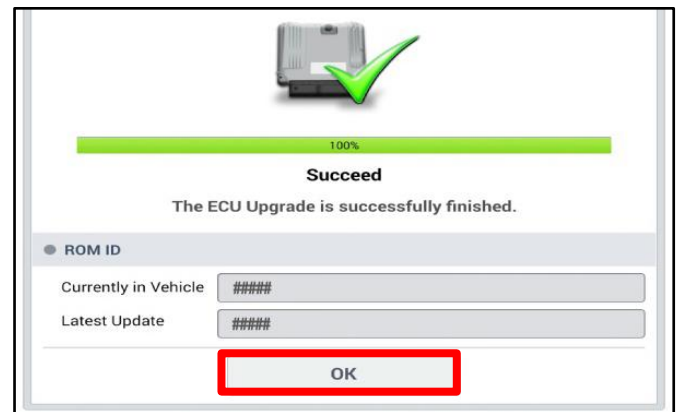
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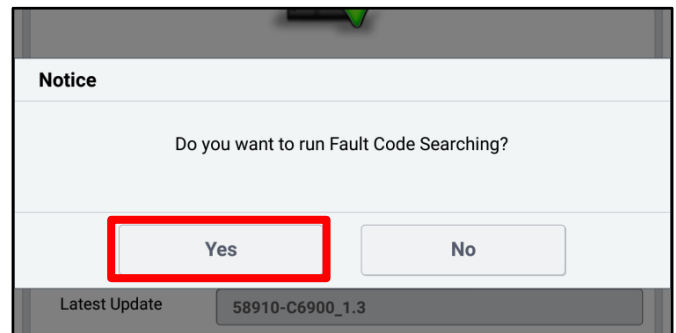
10. When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Touch **OK** to continue.



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



12. 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.



13. 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 #517** 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 HEV/PHEV)	November 1, 2019 to November 30, 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	(SA459) AAF MIL ON Judgement Logic Improvement	200137R0	0.3 M/H	N/A	0

## STANDARD WARRANTY CLAIM INFORMATION:

Use this information only to file a warranty claim for vehicles for which:

1. A customer complains of the same concern, as described on Page 1.
2. The VIN does not appear on the Affected Vehicles list for Service Action 459.
3. The vehicle model year and production date range are as identified in this bulletin.

## WARRANTY INFORMATION:

**N Code: I3A C Code: ZZ3**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	39110 03929	0	AAF MIL ON Judgement Logic Improvement	86967F01	0.3 M/H	N/A	0

**\* NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA459 when accessing the WebDCS system.