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|-----------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------|
|  | GROUP Service Campaign | MODEL 2014-2016MY Forte (YD) 2.0L GDI |
| | NUMBER SC180 | DATE September 2019 |
| VOLUNTARY EMISSIONS SERVICE CAMPAIGN | | |
| SUBJECT: NU 2.0L GDI SULEV CATALYST HEATING LOGIC IMPROVEMENT (SC180) | | |

This bulletin provides the procedure to update the Engine Control Module (ECM) software on some 2014-2016MY Forte (YD) Nu 2.0L GDI SULEV vehicles, produced from November 13, 2013 through March 17, 2016, to improve catalyst heating logic to ensure compliance with emissions regulations. To correct this issue, install the improved logic to the ECM using the KDS ECU Upgrade function as described in this bulletin. For confirmation that the latest reflash has been installed to a vehicle you are working on, verify the ROM ID using the table on page 3 of this bulletin. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.



Kia Diagnostic System (KDS)

*** NOTICE**

To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service → Warranty Coverage → Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.

File Under: <Service Campaign>

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

SUBJECT:

**NU 2.0L GDI SULEV CATALYST HEATING
LOGIC IMPROVEMENT (SC180)****ECU Upgrade Procedure:**

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


Upgrade Event Name**429. YD NU 2.0GDI SULEV CATALYST HEATING LOGIC IMPROVEMENT***** NOTICE**

- **A fully charged battery is necessary before the ECU upgrade can take place. It is recommended that the Midtronics GR8-1299 be used in ECU mode during reflashing or the use of a fully charged jump starter box.**
- **DO NOT connect any other battery charger to the vehicle during ECU upgrade.**
- **Ensure the KDS or GDS is sufficiently charged 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.**

SUBJECT:

NU 2.0L GDI SULEV CATALYST HEATING LOGIC IMPROVEMENT (SC180)

★ 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 #429

| Model | EM | TM | IMMO | ECU P/No. | ROM ID | |
|-------|-------|-----|------|----------------------------|--------------------------------------|------------------|
| | | | | | Previous | New |
| YD | SULEV | 6AT | Yes | 39131 2EYD2 | GGYD GNSAQS00C00 GGYD GNSAQS01C00 | GGYD GNSAQF01C00 |
| | | | No | 39133 2EYD2 | GGYD GNSAPS00C00 GGYD GNSAPS01C00 | GGYD GNSAPF01C00 |
| | | | Yes | 39131 2EYC4 39131 2EYC6 | GGYD FNSAQS00C00 GGYD FNSAQS01C00 | GGYD FNSAQF01C00 |
| | | | No | 39133 2EYC4 39133 2EYC6 | GGYD FNSAPS00C00 GGYD FNSAPS01C00 | GGYD FNSAPF01C00 |
| | | | Yes | 39131 2EYC0 39131 2EYC2 | GGYD DNSAQS00C00 | GGYD DNSAQF00C00 |
| | | | No | 39133 2EYC0 39133 2EYC2 | GGYD DNSAPS00C00 | GGYD DNSAPF00C00 |
| | | | Yes | 39131-2EYC1 | GGYD DNSAQSC0C00 | GGYD DNSAQFC0C00 |
| | | | No | 39133-2EYC1 | GGYD DNSAPSC0C00 | GGYD DNSAPFC0C00 |

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**

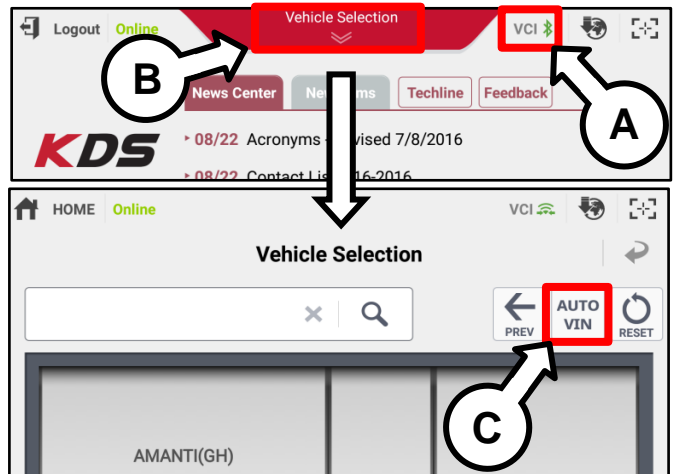
The ECU upgrade function on KDS operates wirelessly. It is not necessary to perform the upgrade via USB cable.



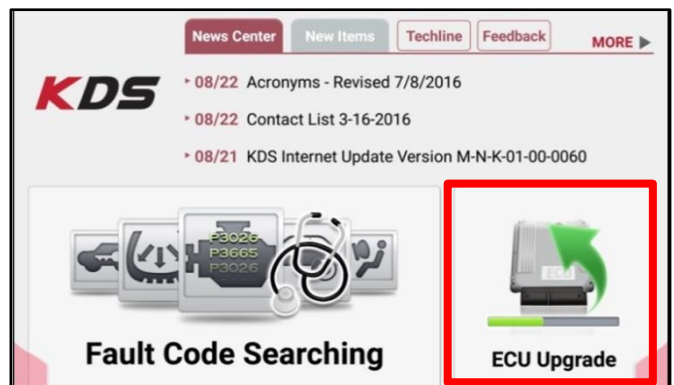
2. With the ignition ON, turn ON the KDS tablet. Select **KDS** from the home screen.



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



4. Select **ECU Upgrade**.



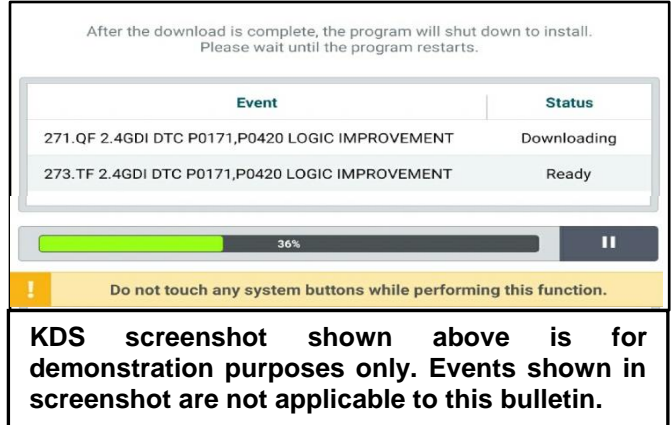
SUBJECT:

NU 2.0L GDI SULEV CATALYST HEATING LOGIC IMPROVEMENT (SC180)

- The KDS will check the server for recently uploaded Events and then automatically download **Upgrade Event #429**.

* NOTICE

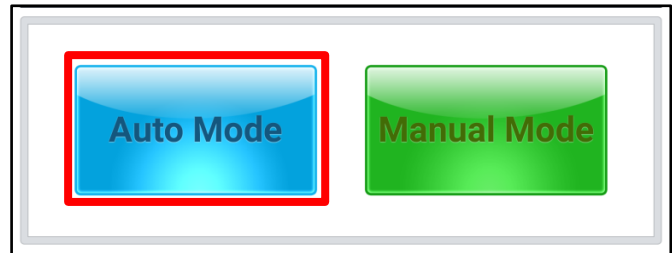
The vehicle must be identified in Vehicle Selection to download an Event for that vehicle.



- Select **Auto Mode**.

! CAUTION

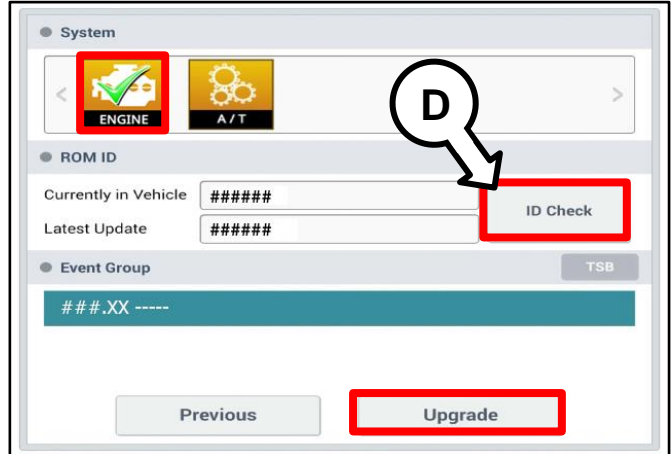
Do NOT attempt to perform a Manual Mode upgrade **UNLESS Auto Mode fails**. Always follow the instructions given on the KDS in either Auto or Manual mode.



- Select the ECU system under the System selection menu.

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

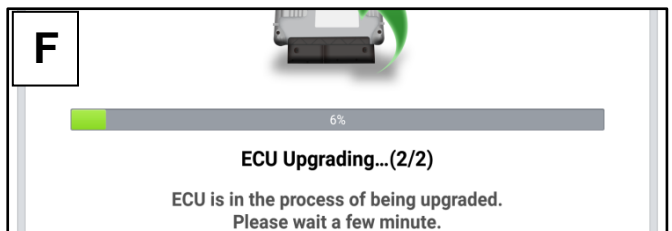
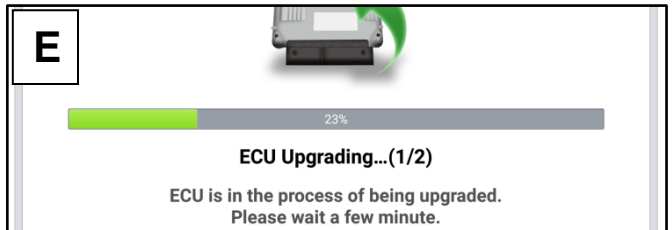
Select **Upgrade Event #429** and select **Upgrade** to continue.



- 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.



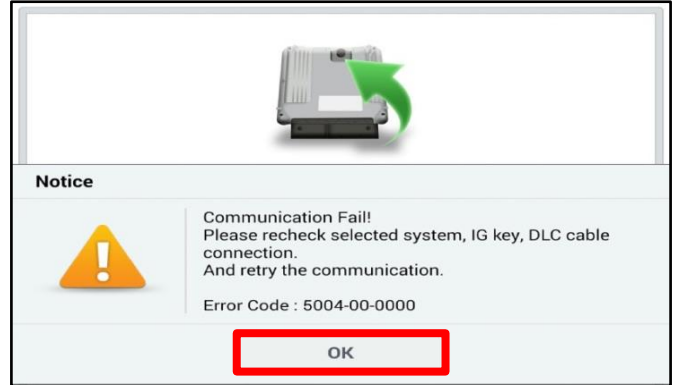
SUBJECT:

NU 2.0L GDI SULEV CATALYST HEATING LOGIC IMPROVEMENT (SC180)

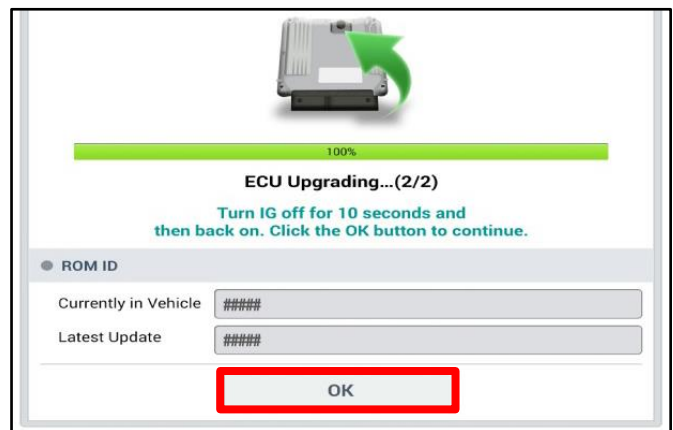
- If a “Communication Fail” screen appears, verify that the VCI-II and KDS are communicating properly. Touch **OK** and restart the procedure from step 4.

* NOTICE

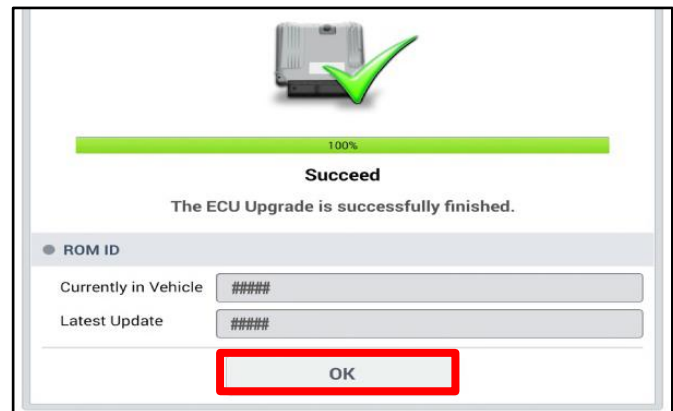
If an error notice continues to appear or if the upgrade cannot be performed, **DO NOT** disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.



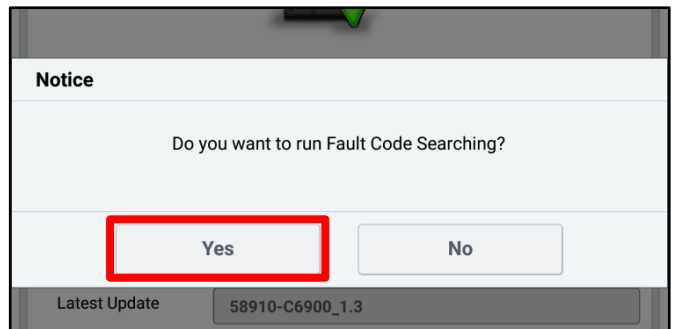
- When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Touch **OK** to continue.



- 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.

SUBJECT:

NU 2.0L GDI SULEV CATALYST HEATING LOGIC IMPROVEMENT (SC180)

FILLING OUT AND APPLYING THE CAMPAIGN COMPLETION LABEL:

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.

Apply SC180 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:

NU 2.0L GDI SULEV CATALYST HEATING LOGIC IMPROVEMENT (SC180)

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 |
|---------------------------------------------------|----------|
| YD NU 2.0GDI 6AT SULEV -IMMO : 39133-2EYD2 | 3322 |
| YD NU 2.0GDI 6AT SULEV +IMMO/SMK : 39131-2EYD2 | 3122 |
| YD NU 2.0GDI 6AT SULEV -IMMO : 39133-2EYC4/C6 | 3326 |
| YD NU 2.0GDI 6AT SULEV +IMMO/SMK : 39131-2EYC4/C6 | 3126 |
| YD NU 2.0GDI 6AT SULEV -IMMO : 39133-2EYC0/C2 | 3323 |
| YD NU 2.0GDI 6AT SULEV +IMMO/SMK : 39131-2EYC0/C2 | 3123 |
| YD NU 2.0GDI 6AT SULEV -IMMO : 39133-2EYC1 | 3321 |
| YD NU 2.0GDI 6AT SULEV +IMMO/SMK : 39131-2EYC1 | 3121 |

1. Within the ECU Upgrade screen displayed, select **Manual Mode**.
2. Select the **ECU** system under the System selection menu. Select **Upgrade Event #429** and select **Upgrade** to continue.
3. Select the appropriate control unit part number with reference to the ROM ID Information Table on page 2, 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.

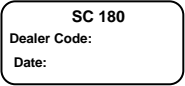

SUBJECT:

NU 2.0L GDI SULEV CATALYST HEATING LOGIC IMPROVEMENT (SC180)

AFFECTED VEHICLE RANGE:

| Model | Production Date Range |
|------------|------------------------------------------|
| Forte (YD) | November 13, 2013 through March 17, 2016 |

REQUIRED PART:

| Part Name | Part Number | Figure |
|--------------------------------------------------|-------------|-------------------------------------------------------------------------------------|
| Campaign Completion Label | UT160 SC180 |  |
| Vehicle Emission Recall-Proof of Correction Card | UT161 SC000 |  |

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. |
|------------|-------------|------|-------------------------------------------------------------------------|---------------|------------|-----------------|------|
| R | 39131 2EYD2 | 0 | (SC180) YD Nu 2.0 GDI SULEV Catalyst Heating Logic Improvement | 190053R0 | 0.3 M/H | N/A | 0 |

* NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC180 when accessing the WebDCS system.