	GROUP ENG	MODEL 2017MY Forte (YDm) 2.0L MPI
	NUMBER 165	DATE April 2017
TECHNICAL SERVICE BULLETIN		
SUBJECT: SERVICE ACTION: ECU LOGIC IMPROVEMENT FOR DTC P030X (SA285)		

This bulletin provides the procedure to improve the logic of the Electronic Control Unit (ECU) on some 2017MY Forte (YDm) vehicles equipped with 2.0L MPI engine, produced from May 30, 2016 to February 22, 2017, which may experience a malfunction indicator lamp illumination with **DTC P0300, P0301, P0302, P0303, or P0304**. To correct this concern, apply the improved logic to the ECU using the KDS download 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 2 of this bulletin. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.

DTC P0300 – P0304: Random / Cylinder “X” - Misfire Detected



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 SA285.

File Under: <Engine>

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

ECU Upgrade Procedure:


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

Upgrade Event Name
317.YDM NU 2.0 ECU MIL ON DTC (P030X) LOGIC IMPROVEMENT



★ NOTICE

- A fully charged battery is necessary before ECU upgrade can take place. It is recommended that the Midtronics GR8-1299 system be used in ECU mode during charging. **DO NOT** connect any other battery charger to the vehicle during ECU upgrade.
- 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, year.

★ 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 317 (YDm)**

Model	EM	TM	IMMO	ECU P/No.	ROM ID	
					Previous	New
YDm 2.0L MPI	ULEV	AT	Yes (+) 	39171-2EXN0	YD7UP2AS65AA YD7UP2AS65AB	YD7UP2AS65DA
			No (-)	39173-2EXN0	YD7UP2US65AA YD7UP2US65AB	YD7UP2US65DA
		MT	No (-)	39177-2EXB0	YD7UP2VS65AA YD7UP2VS65AB	YD7UP2VS65DA
	SULEV	AT	Yes (+) 	39171-2EXM0	YD7SP2AS65AA YD7SP2AS65AB	YD7SP2AS65DA
			No (-)	39173-2EXM0	YD7SP2US65AA YD7SP2US65AB	YD7SP2US65DA

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.

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ECU LOGIC IMPROVEMENT FOR DTC P030X (SA285)

*** 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**

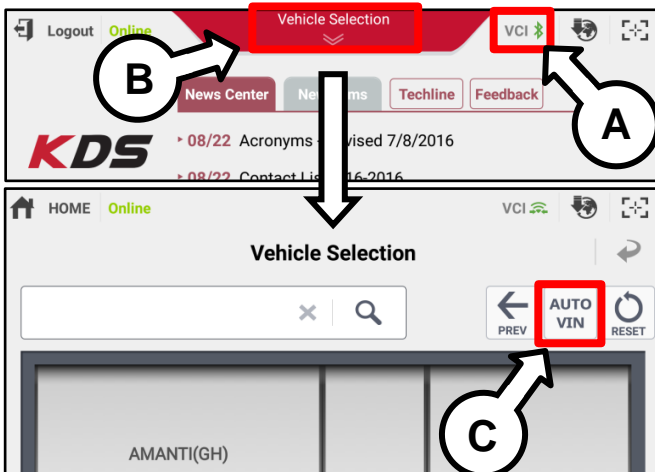
The ECU upgrade function on KDS is operating wirelessly. It is not necessary to perform the upgrade via USB cable.



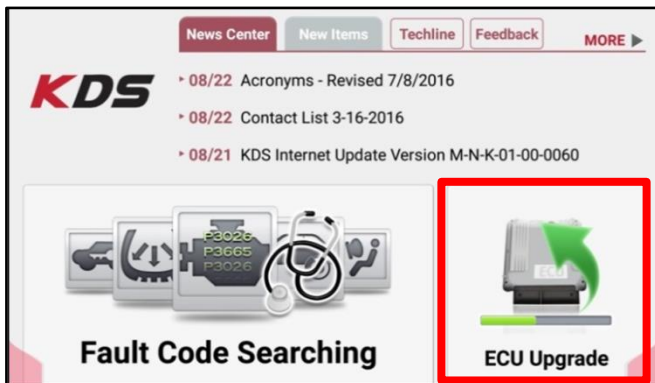
2. With the ignition ON, turn ON the KDS tablet. Select **KDS** from the home screen.



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



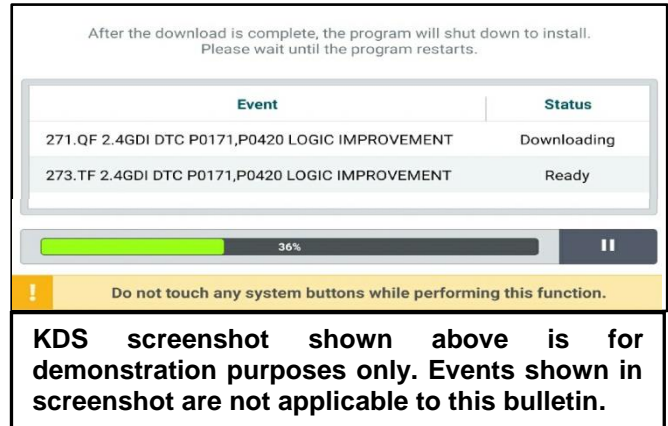
4. Select **ECU Upgrade**.



5. The KDS will check the server for recently uploaded Events and then automatically download **Upgrade Event (317)**.

* NOTICE

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

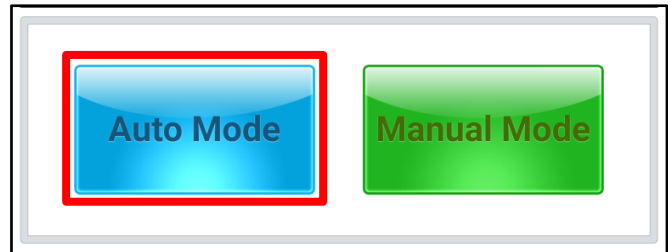


6. Select **Auto Mode**.



CAUTION

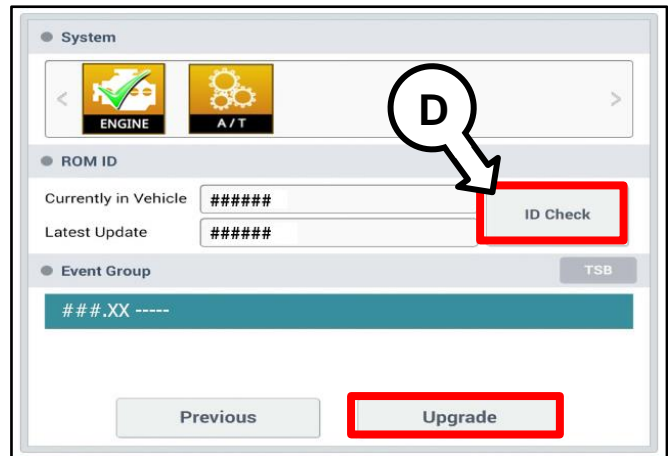
Do NOT attempt to perform a Manual Mode upgrade UNLESS Auto Mode fails. Always follow the instructions given on the KDS in either Auto or Manual mode.



7. Select the Engine system under the System selection menu.

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

Select **Upgrade Event (317)** and select **Upgrade** to continue.

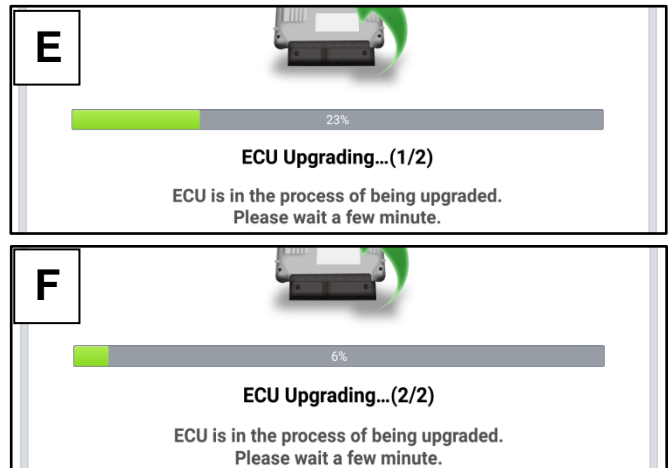


8. The ECU upgrade will begin and the progress of the upgrade will appear on the bar graph. Upgrade part (1/2) (E) will download the upgrade event to the VCI-II. Upgrade part (2/2) (F) will upgrade the ECU.



CAUTION

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



SUBJECT:

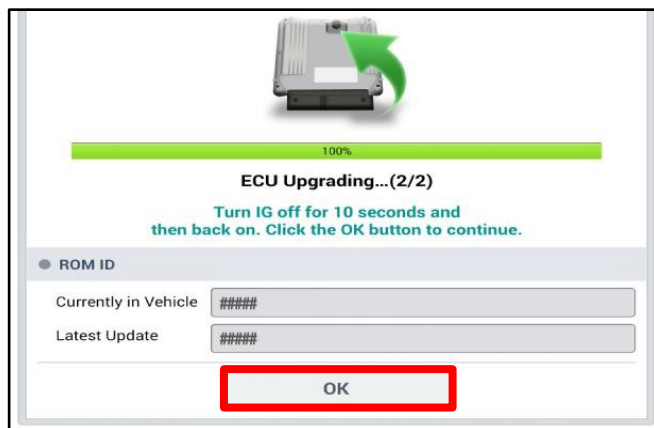
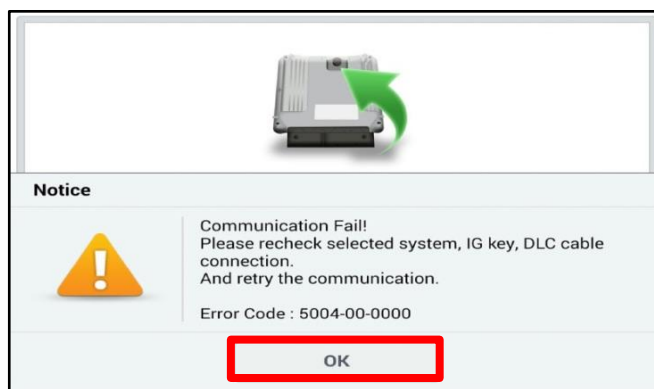
ECU LOGIC IMPROVEMENT FOR DTC P030X (SA285)

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.

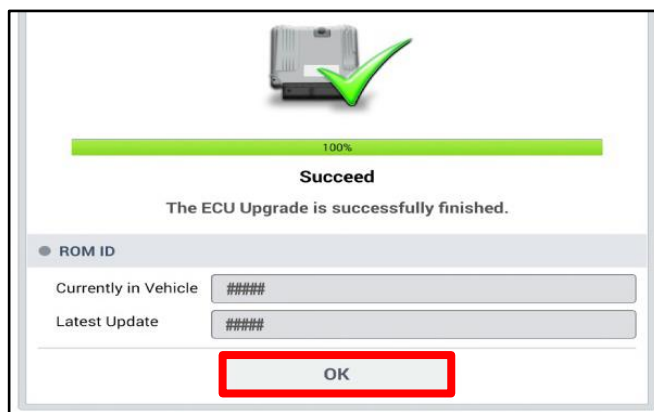
*** NOTICE**

If an error notice continues to appear or if the upgrade cannot be performed, contact Techline or GIT America Help Desk.

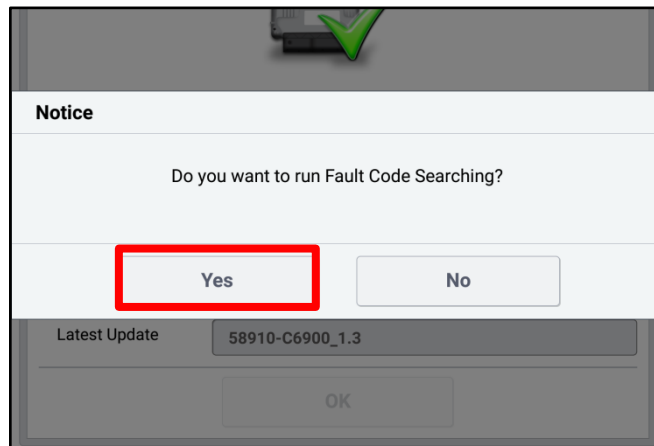
10. When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Touch **OK** to continue.



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.



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
YDM NU 2.0 ULEV AT -IMMO : 39173-2EXN0	7320
YDM NU 2.0 ULEV MT -IMMO : 39177-2EXB0	7720
YDM NU 2.0 SULEV AT -IMMO : 39173-2EXM0	7321
YDM NU 2.0 ULEV AT +IMMO/SMK : 39171-2EXN0 	7120
YDM NU 2.0 SULEV AT +IMMO/SMK : 39171-2EXM0 	7121

1. Within the ECU Upgrade screen displayed, select **Manual Mode** and then select **Upgrade Event (317)**.
2. Select the appropriate control unit part number with reference to the ROM ID Information Table on pages 2, and select **OK**.
3. Enter the appropriate password from the Manual Mode password table above and select **OK**.
4. The upgrade will begin and the progress of the upgrade will appear on the bar graph.
5. When instructed on the KDS, turn the ignition **OFF** for ten (10) seconds then back on. Touch **OK** to continue.
6. Once the upgrade is complete, touch **OK** to finalize the procedure.
7. 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.
8. Start the engine to confirm proper operation of the vehicle.

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AFFECTED VEHICLE RANGE:

Model	Production Date Range
Forte (YDm)	May 30, 2016 to February 22, 2017

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	39173 2EXN0	0	(SA285) ECU Logic Improvement for DTC P0300 – P0304	170M14R0	0.3 M/H	N/A	0

* NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA285 when accessing the WebDCS system.