

GROUP	MODEL	
Safety Recall Campaign	2014MY	
	Soul (PS)	
NUMBER	DATE	
SC229	March 2022	

SAFETY RECALL CAMPAIGN

SUBJECT:

AIRBAG CONTROL UNIT (ACU) SOFTWARE LOGIC IMPROVEMENT (SC229)

This bulletin provides information to update the Airbag Control Unit (ACU) software logic on 2014MY Soul (PS) produced from July 21, 2013 through June 20, 2014. In the rare event that communication to the ACU from both the left and right front impact sensors is simultaneously lost early in a severe crash, before frontal airbag deployment is commended by the ACU, the front airbags will not deploy. Non-deployment of the frontal airbags increases the risk of injury.

Follow the procedure outlined in this publication to update the ACU software logic. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.

NOTICE

There is no charge to the vehicle owner for this repair. Under applicable law, you may not sell or otherwise deliver any affected vehicle until it has been repaired pursuant to the procedures set forth in this bulletin.

■ NOTICE

To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service \rightarrow Warranty Coverage \rightarrow 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.

ECU Upgrade Procedure:

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

Upgrade Event Name

606. PS ACU OPERATION LOGIC IMPROVEMENT

NOTICE

- Confirm a <u>fully charged battery</u> (12.3 volts or higher is necessary) is used <u>or</u> utilize a fully charged jump starter box connected to the battery.
- Ensure the KDS GDS is sufficiently charged at 60% or higher prior to reflash.
- All ECU upgrades must be performed with the ignition set to the 'ON' position unless otherwise stated.
- Damaged VCI II units should not be used and promptly replaced.
- 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 application.

(1) 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.

ROM ID INFORMATION TABLE:

Upgrade Event #606

Model	Controller	ECU P/No.		ROM ID		
		ECO	r/NO.	Previous	New	
PS	ACU	95910 B2000 95910 B2010 95910 B2100 95910 B2200 95910 B2500		471H6B9C 473H6B9C 481H6D9D	483H6D9D	
13			H00H6B9C 493H6D9D	494H6D9D		

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.



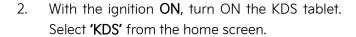
NOTICE

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

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

NOTICE

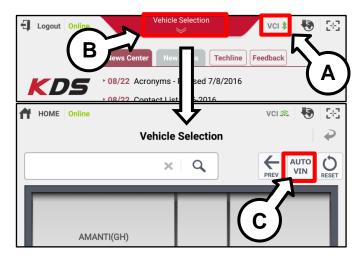
The ECU upgrade function on KDS operates wirelessly. It is not necessary to perform the upgrade via USB cable.







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(s) #606**.

NOTICE

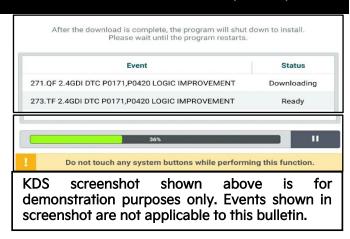
The vehicle must be identified in Vehicle Selection to download an Event for that vehicle.

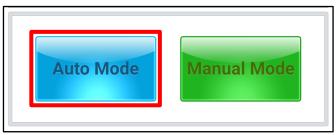
6. Select Auto Mode.

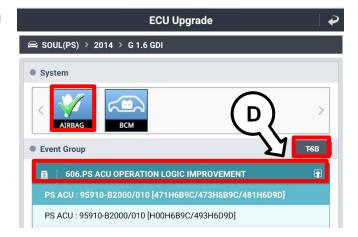


Do NOT attempt to perform a Manual Mode upgrade UNLESS Auto Mode fails. Always follow the instructions given on the KDS in either Auto or Manual mode.

- 7. Select **AIRBAG** system and the corresponding software event for the vehicle.
 - 606. PS ACU OPERATION LOGIC IMPROVEMENT



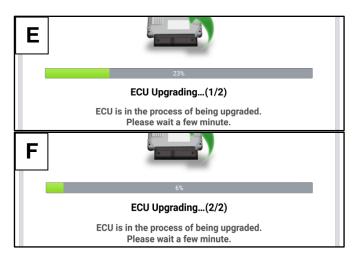




8. The ECU upgrade will begin and the progress of the upgrade will appear on the bar graph. Upgrade part (1/2) (E) will download the upgrade event to the VCI-II. Upgrade part (2/2) (F) will upgrade the ECU.



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





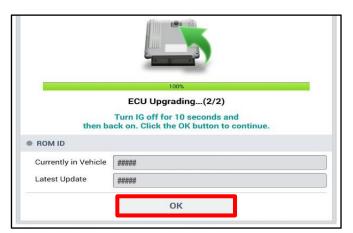
9. <u>If a "Communication Fail" screen appears</u>, verify that the VCI-II and KDS are communicating properly. Select **'OK'** and restart the from step 4.

NOTICE

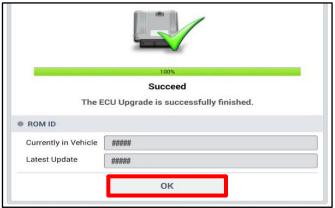
If an error notice continues to appear or if the upgrade cannot be performed, DO NOT disconnect the KDS/VCI-II. Contact GIT America Help Desk at (888) 542-4371 or Techline.



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



11. Once the upgrade is complete, select '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 normal 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, <u>DO NOT</u> turn the ignition 'OFF'. Proceed to the 'Manual Mode' upgrade with the ignition 'ON'.

See table below for 'Manual Mode' passwords.

Manual Mode ECU Upgrade Passwords

Menu	Password
PS ACU: 95910-B2000/010 [471H6B9C/473H6B9C/481H6D9D]	2000
PS ACU: 95910-B2000/010 [H00H6B9C/493H6D9D]	2010
PS ACU: 95910-B2100/200/300/400 [471H6B9C/473H6B9C/481H6D9D]	2100
PS ACU: 95910-B2100/200/300/400 [H00H6B9C/493H6D9D]	2200
PS ACU: 95910-B2500 [471H6B9C/473H6B9C/481H6D9D]	2500
PS ACU: 95910-B2500 [H00H6B9C/493H6D9D]	2600

- 1. Within the ECU Upgrade screen displayed, select **Manual Mode**.
- 2. Select the **AIRBAG** system under the System selection menu. Select **Upgrade Event #606** 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. Select OK.
- 7. Once the upgrade is complete, select **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.



Printed TSB copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information. TSB: SC229 Soul (PS) March 2022

AFFECTED VEHICLE RANGE:

Model	Production Date Range		
2014MY Soul (PS)	July 21, 2013 to June 20, 2014		

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Soul (PS)	R	95910 B2000	0	(SC229) ACU S/W Update	221040R0	0.3 M/H	N/A	0

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC229 when accessing the WebDCS system.

