HYUNDAI
Technical Service Bulletin

GROUP **CAMPAIGN**	NUMBER **23-01-043H**
DATE **MAY, 2023**	MODEL(S) **IONIQ 6 (CE1)**

SUBJECT: IONIQ 6 (CE1) SMART APPROACH UNLOCK SYSTEM (IBU UPDATE) (SERVICE CAMPAIGN TAE)

Description: Some 2023 IONIQ 6 (CE1) vehicles may experience intermittent operation of the Smart Approach Unlock function.

This bulletin provides the service procedure to update the IBU (Integrated Body Control Unit) software to resolve the condition stated above.

Applicable Vehicles:
2023MY IONIQ 6 (CE1) vehicles produced from 12/14/2022 – 3/27/2023.

Warranty Information:

MODEL	OP. CODE	OPERATION	OP. TIME	CAUSAL PART	NATURE	CAUSE
IONIQ 6 (CE1)	30D032R0	IBU UPGRADE	0.4 M/H	95400-KL100	I14	ZZ3

Note 1: Submit claim on Campaign Claim Entry Screen.
Note 2: If a part that is not covered by this campaign is found in need of replacement while performing this campaign and the affected part is still under warranty, submit a separate claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

IBU-BCM SOFTWARE UPDATE PROCEDURE

NOTICE

Check if the vehicle's software version is affected:
- Check the current version of the IBU ROM ID and compare it to the ROM ID information table listed below before attempting to perform the software update.

NOTICE

You must initially perform the GDS IBU-BCM Update in Auto Mode.
- Refer to the TSB **15-GI-001** for the tablet-based Mobile GDS ECU update procedures.
- If the IBU update starts but then fails in Auto Mode, perform the update in Manual Mode to recover. Go to page 8 to complete the update in Manual Mode.

NOTICE

- **In the ECU Upgrade screen, select IBU-BCM as the system to update.**

GDS INFORMATION:

EVENT INFORMATION	
MODEL	EVENT DESCRIPTION
IONIQ 6 (CE1)	"996.IONIQ6 (CE1) SMART APPROACH UNLOCK SYSTEM IMPROVEMENT (IBU UPDATE)"

ROM ID INFORMATION TABLE:

EVENT	MODEL	SYSTEM	ICU P/N	ROM ID	
				OLD	NEW
#996	IONIQ 6 (CE1)	IBU	95400-KL100	1.00	1.10

MANUAL MODE PASSWORD INFORMATION TABLE:

Event #	MENU	PASSWORD
996.IONIQ6 (CE1) SMART APPROACH UNLOCK SYSTEM IMPROVEMENT (IBU UPDATE)	CE1_IBU_1_95400KL1*0	7191

SERVICE PROCEDURE:

⚠ CAUTION

Cautions During Control Unit Upgrade
- Confirm the vehicle's battery is above 12 volts. If the vehicle has been in storage for days, run the engine to assure an adequate battery charge state for reliable upgrade results.
- Turn off all lamps (Do not leave head lamp switch in auto mode) and all accessories (heater, A/C, blower, radio, seat warmer, defroster, etc.); do not allow the battery to be discharged during upgrade.
- Perform upgrade with the ignition switch in the ON position.
- Be careful not to disconnect any cables connected to the vehicle or scan tool during upgrade.
- Do not start the engine during upgrade.
- Do not turn off the ignition switch during upgrade.
- Do not touch the systems buttons (like 'BACK', 'HOME', 'etc.') while performing upgrade.

■ **CONTROL UNIT UPGRADE PROCEDURE USING THE GDS-Mobile**

1. GDS (Global Diagnostic System)-Mobile INSTALLATION PROCEDURE

1. Connect the VCI-II into the vehicle's DLC connector under the driver side instrument panel and check to turn the VCI-II on.

   Before starting the update, make certain that the battery of the Table PC is sufficiently charged.

NOTICE

ECU upgrade function on GDS-Mobile is basically operating in wireless communication and Wi-Fi direct. Also, it is possible to be performing via USB cable between Tablet PC and VCI-II.
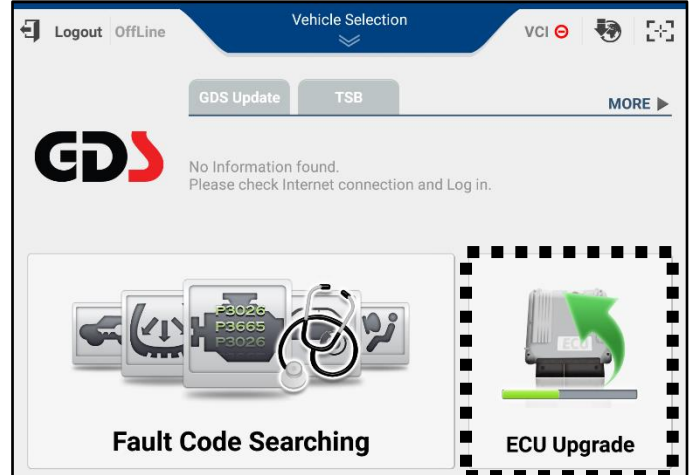
NOTICE

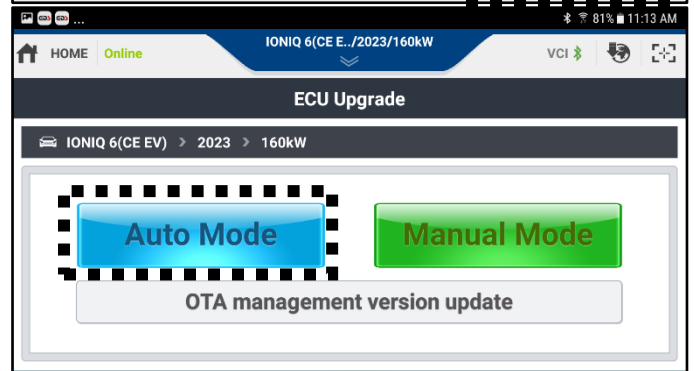**You must initially perform GDS-M IBU-BCM Update in Auto Mode.**
If the IBU-BCM update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.

2. AUTOMATIC UPGRADE PROCEDURE USING THE GDS-MOBILE

2. Select ECU Upgrade on the initial screen after entering the vehicle information and select Auto Mode.

3. Select **IBU-BCM** system.

4.   Select **ID Check** and GDS will read the current ROM ID in vehicle and check the newest upgrade event.
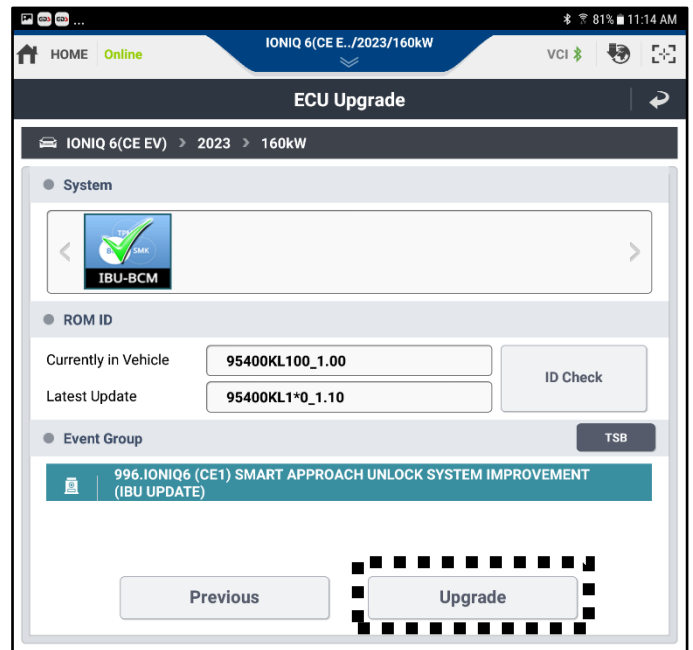
> **NOTICE**
>
> Check the current version of the IBU-BCM ROM ID and compare it to the ROM ID Information Table before attempting to perform the software update.
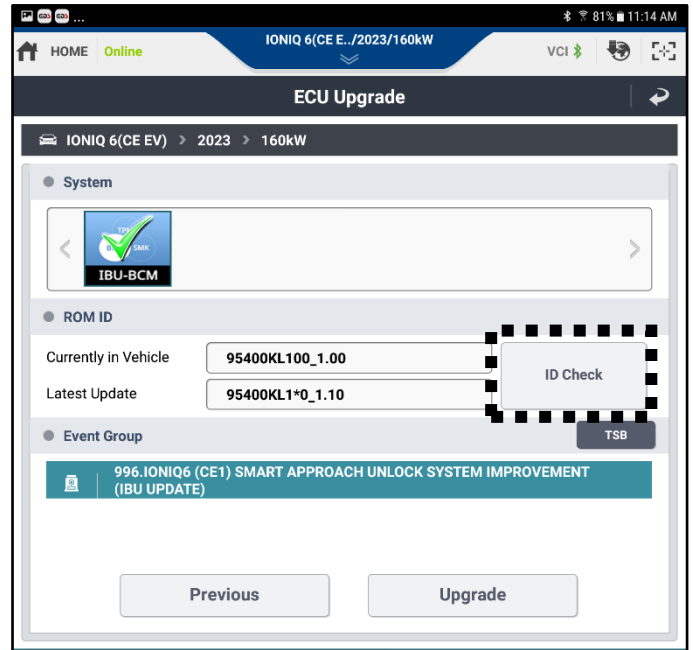
5.   Select **Upgrade** after confirming correct Event is selected.

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6.   The vehicle battery voltage is checked to make sure it is at least 12 voltages to assure reliable upgrade results. Click OK if the results indicate voltage is ok.

> **NOTICE**
>
> If battery voltage is below 12 voltages as below, click BACK and then run the engine to assure an adequate battery charge state for reliable upgrade results.

7. Upgrade (1/2) will begin, and the progress of the upgrade will appear on the bar graph.

   Upgrade (1/2) will occur until 100% is reached on the bar graph.

8. Upgrade (2/2) will begin, and the progress of the upgrade will appear in the bar graph.

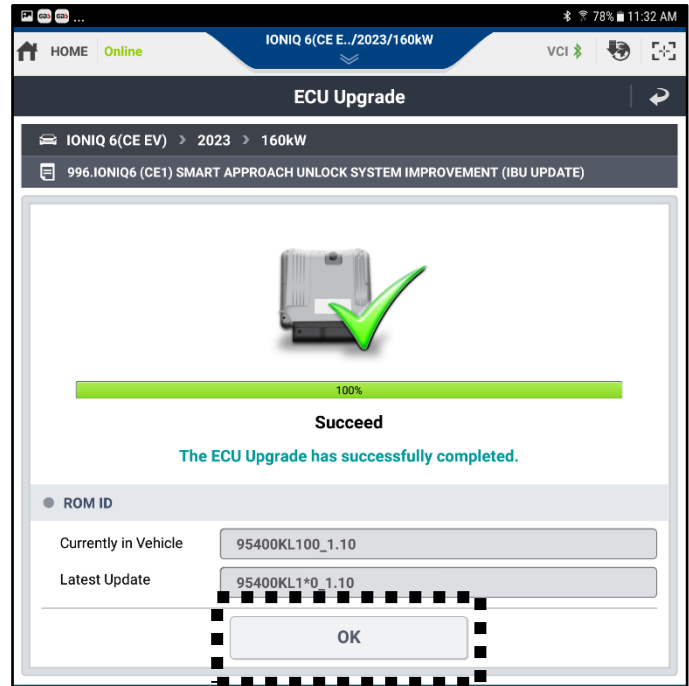   Upgrade (2/2) will occur until 100% is reached on the bar graph.

   When upgrade reaches 100%, follow GDS instructions to "Turn IG off for 10 seconds and then back on. Click the OK button to continue."
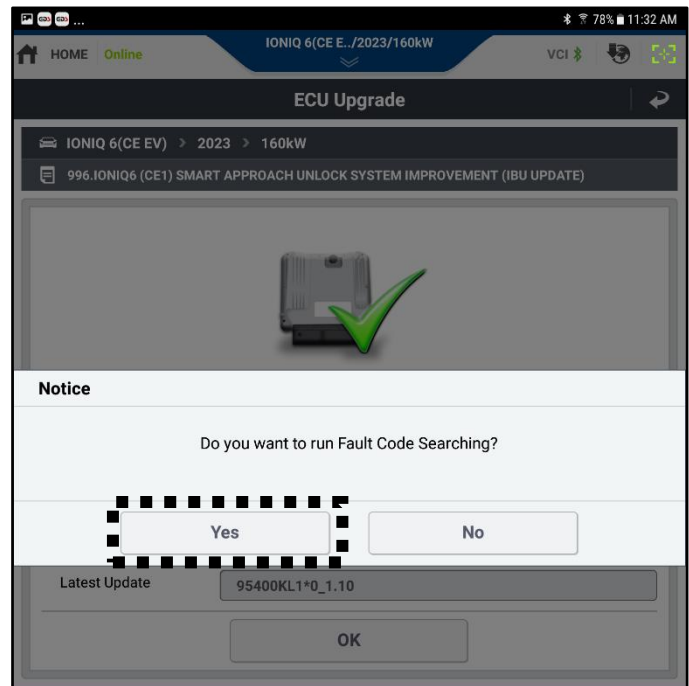
9. Click **OK** on the final screen, which indicates upgrade is complete.

10. Check if any incidental Diagnostic Trouble Codes (DTC) have been created by the upgrade and clear the DTC(s) present.

    Start the engine to confirm proper operation of the vehicle. Stop engine and exit vehicle to confirm proper operation of the smart approach unlock.

3. MANUAL UPGRADE PROCEDURE USING THE GDS-MOBILE

NOTE:
- The manual upgrade should be performed only when the automatic upgrade fails.
- If automatic upgrade fails, turn the ignition key off for about 10 seconds, place it back in the on position to reset the control unit before performing manual upgrade.

11.   Select ECU Upgrade on the initial screen after entering the vehicle information and select Manual Mode.
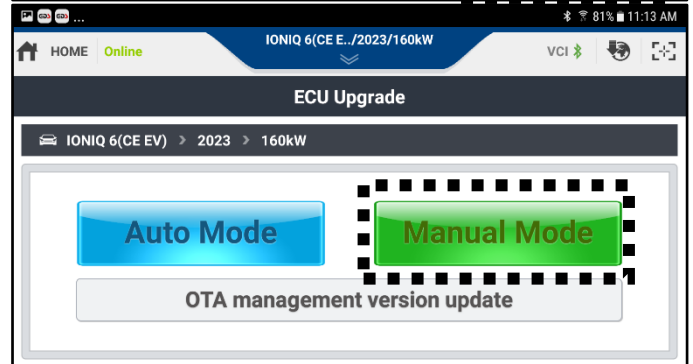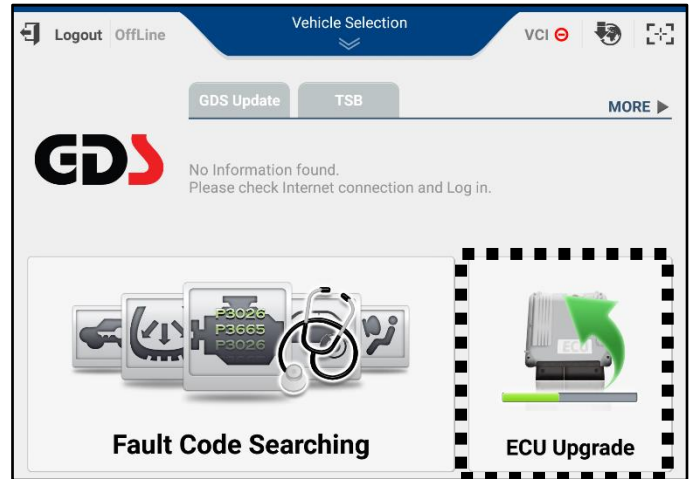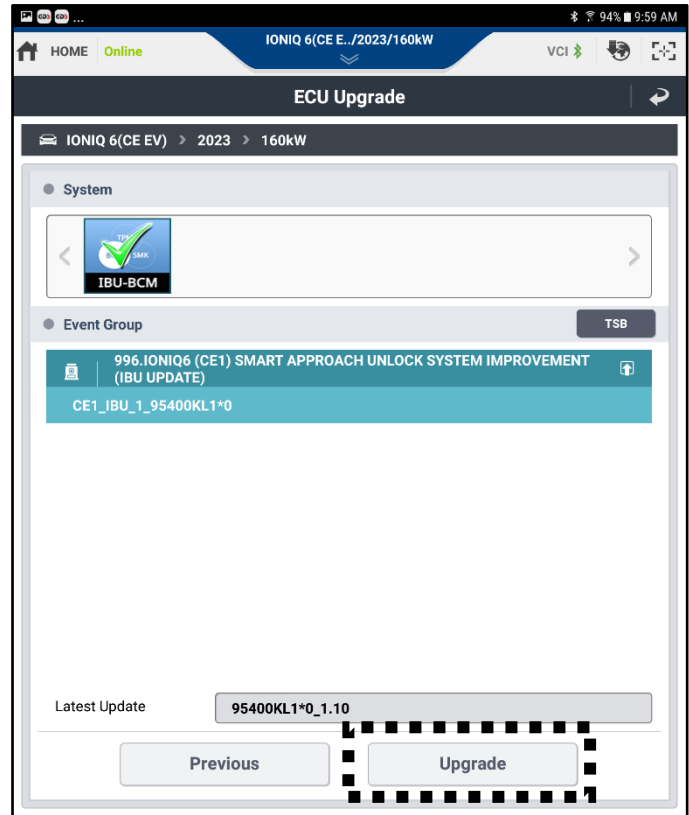

12.   Select IBU-BCM system.
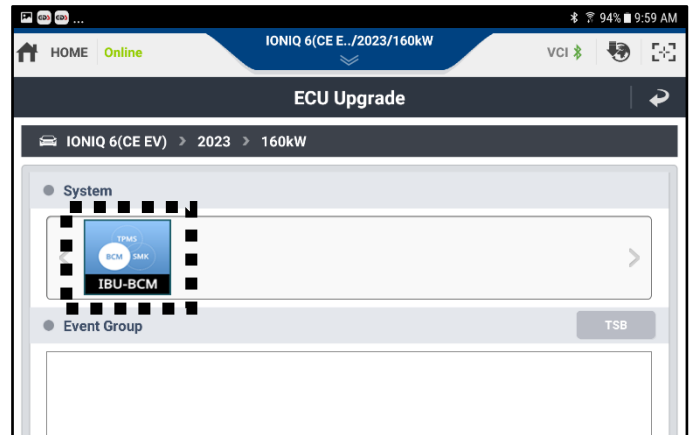
13. Check that the newest event with reference to the above ROM ID Information Table is selected and select **Upgrade**.

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14. Enter the password from the below table then touch OK.

     #996.IONIQ6 (CE1) SMART APPROACH UNLOCK SYSTEM IMPROVEMENT (IBU UPDATE)

MENU	PASSWORD
CE1_IBU_1_95400KL1*0	7191

15. The vehicle battery voltage is checked to make sure it is at least 12 volts to ensure reliable upgrade results. Click OK if the results indicate voltage is OK.

     NOTICE

     If battery voltage is below 12 voltages as below, click BACK and then run the engine to assure an adequate battery charge state for reliable upgrade results.

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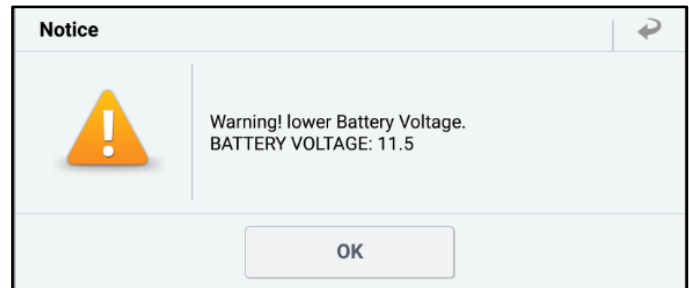
16. Upgrade (1/2) will begin, and the progress of the upgrade will appear on the bar graph.
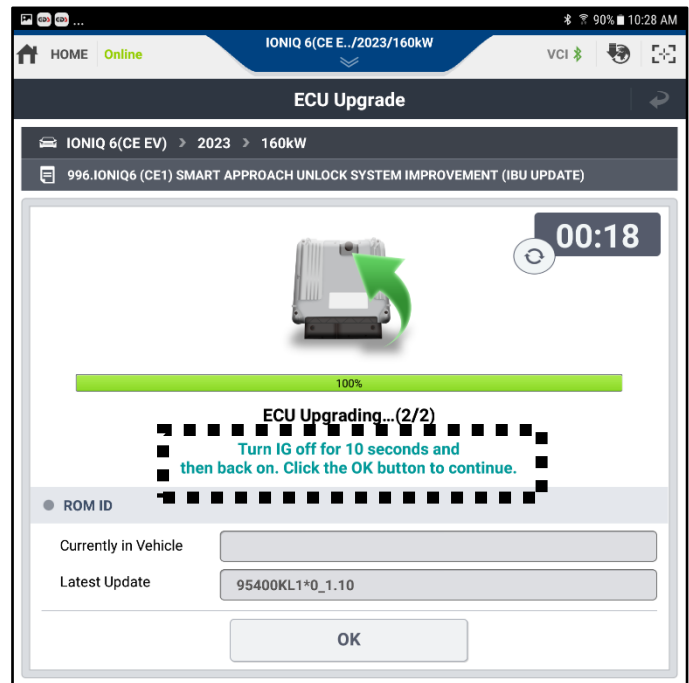
    Upgrade (1/2) will occur until 100% is reached on the bar graph.

17. Upgrade (2/2) will begin, and the progress of the upgrade will appear in the bar graph.

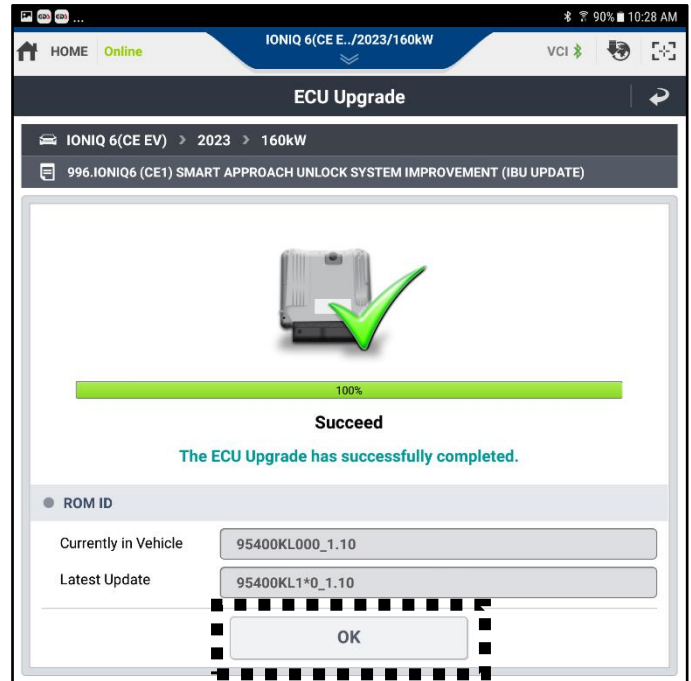   Upgrade (2/2) will occur until 100% is reached on the bar graph.

    When upgrade reaches 100%, follow GDS instructions to "Turn IG off for 10 seconds and then back on. Click the OK button to continue."

18. Click **OK** on the final screen, which indicates upgrade is complete.

> **NOTICE**
>
> Check the ICU ROM ID and compare it to the ROM ID Information Table to confirm latest ROM ID was updated.

19. Check if any incidental Diagnostic Trouble Codes (DTC) have been created by the upgrade and clear the DTC(s) present.

   Start the engine to confirm proper operation of the vehicle. Stop engine and exit vehicle to confirm proper operation of the smart approach unlock.