



HYUNDAI Technical Service Bulletin

GROUP

RECALL

NUMBER

26-01-011H-1

DATE

JANUARY 2026

MODEL(S)

SEE BELOW

SUBJECT:

INSTRUMENT CLUSTER LOGIC UNIT (CLU) SOFTWARE UPDATE
(RECALL 293)

This TSB supersedes 26-01-011H to add models to the Applicable Vehicles, GDS Information, Warranty Information, ROM ID Information, and Manual Mode Password sections.

★ IMPORTANT

Vehicle repairs related to safety recalls are critically important and must be performed properly in accordance with TSB procedures. Review this bulletin in its entirety prior to beginning any repair work.

As required by federal law, dealers must not deliver new vehicles for sale or for lease to customers until all open recalls have been performed. Dealers must also perform all open recalls on used vehicles, demo, and rental vehicles prior to placing them into customer use and whenever an affected vehicle is in the shop for any maintenance or repair.

Access the “Vehicle Information” screen via WebDCS to identify open recalls.

Description: Certain vehicles listed below have instrument panel (IP) cluster displays that may intermittently reboot during vehicle operation, potentially resulting in a temporary blank screen due to electrical noise occurring within the Power Management Integrated Circuit (PMIC). An inoperative IP cluster display could mask essential gauges, such as the speedometer, fuel gauge, and certain on-screen notifications associated with motive powertrain, increasing the risk of a crash. This bulletin provides information to perform a software update, if necessary, for the IP cluster display.

Applicable Vehicles (Certain):





| Model Year | Model | Production Dates |
|-------------|----------------------------------|-------------------------|
| 2026 | Sonata (DN8) | 07/08/2025 – 10/02/2025 |
| | Sonata Hybrid (DN8 HEV) | 07/08/2025 – 09/23/2025 |
| | Palisade (LX3) | 06/27/2025 – 10/20/2025 |
| | Palisade Hybrid (LX3 HEV) | 08/11/2025 – 10/18/2025 |
| | Santa Cruz (NXT) | 08/29/2025 – 11/03/2025 |
| | Kona (SX2) | 07/05/2025 – 11/01/2025 |
| | IONIQ 5 (NEA EV) | 10/14/2025 – 01/12/2026 |
| 2025 – 2026 | Tucson (NX4A) | 08/25/2025 – 10/11/2025 |
| | Tucson Hybrid (NX4 HEV) | 06/27/2025 – 09/30/2025 |
| | Tucson Plug-in Hybrid (NX4 PHEV) | 07/15/2025 – 09/16/2025 |

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

SUBJECT:INSTRUMENT CLUSTER LOGIC UNIT (CLU) SOFTWARE
UPDATE (RECALL 293)**NOTICE**

To avoid any potential damage to IONIQ vehicles, this recall can only be performed at IONIQ certified dealers.

SST Information:

| Tool Name | Tool Number | Figure | Remarks | Ordering Information |
|--|-------------|--|--|--|
| VCI 3 | G0VHNNN06 |  | VCI 3 comes with the 19-pin cable (P/N G1XDDCA020 included here for reference) | Website: https://hyundaiessentialtools.com/ Email: Hyundaitools@snapon.com Phone: 1-855-763-9199 Hours: 7 AM – 7 PM CST |
| 19-Pin Cable | G1XDDCA020 |  | | |
| VCI 2 | G1XDDMN001 |  | If using VCI 2, the ECI Kit will be required to complete software updates. | |
| Ethernet Communication Interface (ECI) Kit | G0XDDMN052 |  | | |

NOTE: VCI 2 can **NO** longer be ordered but can be used for the updates in this TSB.

SUBJECT:INSTRUMENT CLUSTER LOGIC UNIT (CLU) SOFTWARE
UPDATE (RECALL 293)**GDS Information:**

| Model | System | Event Number* | Description |
|----------------------------------|--------|---------------|--|
| Palisade (LX3) | CLU | 1336 | LX3/LX3 HEV CLU LOGIC IMPROVEMENT (12Inch) (AP) |
| Palisade Hybrid (LX3 HEV) | | 1335 | LX3/LX3 HEV CLU LOGIC IMPROVEMENT (12Inch) (MCU) |
| IONIQ 5 (NE EV) | | 1346 | NE1a CLU LOGIC IMPROVEMENT (12Inch) (AP) |
| | | 1345 | NE1a CLU LOGIC IMPROVEMENT (12Inch) (MCU) |
| Sonata (DN8) | | 1348 | DN8 PE/DN8 PE HEV CLU LOGIC IMPROVEMENT (12Inch) (AP) |
| Sonata Hybrid (DN8 HEV) | | 1347 | DN8 PE/DN8 PE HEV CLU LOGIC IMPROVEMENT (12Inch) (MCU) |
| Tucson Hybrid (NX4 HEV) | | 1350 | NX4 PE/NX4KH CLU LOGIC Improvement (12inch) (AP) |
| Tucson Plug-in Hybrid (NX4 PHEV) | | 1349 | NX4 PE/NX4KH CLU LOGIC IMPROVEMENT (12inch) (MCU) |
| Tucson (NX4) | | 1352 | NX4a CLU LOGIC IMPROVEMENT (12Inch) (AP) |
| Santa Cruz (NXT) | | 1354 | NX4aT(OB) CLU LOGIC IMPROVEMENT (12Inch) (AP) |
| | | 1353 | NX4aT(OB) CLU LOGIC IMPROVEMENT (12Inch) (MCU) |
| Kona (SX2) | | 1359 | SX2/SX2 EV CLU LOGIC IMPROVEMENT (12Inch) (AP) |
| | | 1358 | SX2/SX2 EV CLU LOGIC IMPROVEMENT (12Inch) (MCU) |

(*or use a later available event listed in the GDS CLU Update screen if one is available.)

 **CAUTION**

AP should be updated first and then MCU, otherwise the cluster module can be damaged and will require replacement.

NOTICE

Both **AP** and **MCU** subsystems **MUST** be updated, if applicable.

NOTICE

The **EVENT** download onto the GDS may take longer than normal due to large file size.

SUBJECT:INSTRUMENT CLUSTER LOGIC UNIT (CLU) SOFTWARE
UPDATE (RECALL 293)**Warranty Information:**

| Model | Op. Code | Operation | Op. Time | Causal Part | Nature Code | Cause Code |
|----------------------------------|----------|---------------------|-------------|-------------|-------------|------------|
| Palisade (LX3) | 61D026R0 | CLU Software Update | 0.6 M/H | 940C3-P9060 | I11 | ZZ3 |
| Palisade Hybrid (LX3 HEV) | 61D026R1 | | | | | |
| Kona (SX2) | 61D026R2 | | 0.5 M/H | 940C3-BE290 | | |
| Tucson (NX4A) | 61D026R6 | | | 940C3-CW000 | | |
| Santa Cruz (NXT) | 61D026R7 | | | 940C3-K5000 | | |
| Sonata (DN8) | 61D026R8 | | | 940C3-L1020 | | |
| Sonata Hybrid (DN8 HEV) | 61D026R9 | | | | | |
| IONIQ 5 (NEA EV) | 61D026RA | | 940C3-PI010 | | | |
| Tucson Hybrid (NX4 HEV) | 61D026R5 | | 0.7 M/H | 940C3-N9000 | | |
| Tucson Plug-in Hybrid (NX4 PHEV) | | | | | | |

NOTE 1: Submit claim on Claim Entry Screen as “Campaign” type.

NOTE 2: If any part(s) not subject to this TSB are found in need of replacement while performing the repair procedure, and the affected part(s) are still under warranty, the retailer may submit a separate claim using the same repair order. If the part(s) not subject to this TSB are out of warranty coverage, the retailer has the option to submit a PA Request for goodwill consideration on a case-by-case basis.

NOTE 3: This TSB includes repair validation photos. Op times include VIN, mileage, and photo capture of the ECU Update “Success” screen as outlined in the Digital Documentation Policy. Required photos include the ECU Update “Success” screen for “AP” event and “MCU” event (if applicable).

SUBJECT:**INSTRUMENT CLUSTER LOGIC UNIT (CLU) SOFTWARE
UPDATE (RECALL 293)****ROM ID Information:**

| Model | MY | System | ECU Part Number | Software | ROM ID | |
|---|------|----------------------------|----------------------------|---|--|--|
| | | | | | Current | Latest |
| Sonata (DN8) Sonata Hybrid (DN8 HEV) | 2026 | CLU | 940C3-L1020 | AP | CP12_M.AP.HMC.ALL. 0000.V003.049.250226 | CP12_M.AP.HMC.ALL. 0000.V003.049.250916 |
| | | | | MCU | CP12_M.MCU.HMC.ALL. 0000.V003.050.240807 | CP12_M.MCU.HMC.ALL. 0000.V003.050.250516 |
| | | | 940C3-L1100 | AP | CP12_M.AP.HMC.ALL. 0000.V003.049.250226 | CP12_M.AP.HMC.ALL. 0000.V003.049.250916 |
| | | | | MCU | CP12_M.MCU.HMC.ALL. 0000.V003.050.240807 | CP12_M.MCU.HMC.ALL. 0000.V003.050.250516 |
| Palisade (LX3) Palisade Hybrid (LX3 HEV) | 2026 | | 940C3-P9060 | AP | 253Q.CP12_M.AP.HMC.ALL. 0000.V019.129.250326 | 258S.CP12_M.AP.HMC.ALL. 0000.V019.129.250828 |
| | | | | MCU | 2532.CP12_M.MCU.LX3.ALL. 0000.V019.132.250307 | 2551.CP12_M.MCU.LX3.ALL. 0000.V019.132.250517 |
| IONIQ 5 (NEA EV) | 2026 | | 940C3-PI010 940C3-PI020 | AP | CP12_M.AP.HMC.ALL. 0000.V012.083.241119 | CP12_M.AP.HMC.ALL. 0000.V012.083.250901 |
| | | | | MCU | CP12_M.MCU.HMC.ALL. 0000.V012.106.241115 | CP12_M.MCU.HMC.ALL. 0000.V012.106.250613 |
| | | 940C3-PI000 | AP | CP12_M.AP.HMC.ALL. 0000.V012.083.240905 | CP12_M.AP.HMC.ALL. 0000.V012.083.250901 | |
| | | | MCU | CP12_M.MCU.HMC.ALL. 0000.V012.106.240830 | CP12_M.MCU.HMC.ALL. 0000.V012.106.250522 | |
| Tucson (NX4A) | 2026 | 940C3-CW070 | AP | CP12_M.AP.HMC.ALL. 0000.V012.083.250528 | CP12_M.AP.HMC.ALL. 0000.V012.083.250901 | |
| | | | MCU | CP12_M.AP.HMC.ALL. 0000.V012.083.250812 | | Update NOT Required |
| Tucson Hybrid (NX4 HEV) | 2025 | 940C3-N9000 | AP | CP12_M.AP.HMC.ALL. 0000.V010.070.240906 | CP12_M.AP.HMC.ALL. 0000.V010.070.250917 | |
| | | | MCU | CP12_M.MCU.HMC.ALL. 0000.V010.072.240807 | CP12_M.MCU.HMC.ALL. 0000.V010.072.250526 | |
| Tucson Plug-in Hybrid (NX4 PHEV) | 2026 | 940C3-N9700 940C3-P0770 | AP | CP12_M.AP.HMC.ALL. 0000.V012.083.250528 | CP12_M.AP.HMC.ALL. 0000.V012.083.250901 | |
| | | | MCU | CP12_M.AP.HMC.ALL. 0000.V012.083.250812 | | Update NOT Required |
| Santa Cruz (NXT) | 2026 | 940C3-K5000 | AP | CP12_M.AP.HMC.ALL. 0000.V012.083.240905 | CP12_M.AP.HMC.ALL. 0000.V012.083.250917 | |
| | | | MCU | CP12_M.MCU.HMC.ALL. 0000.V012.092.240806 | CP12_M.MCU.HMC.ALL. 0000.V012.092.250522 | |
| Kona (SX2) | 2026 | 940C3-BE290 | AP | CP12_M.AP.HMC.ALL. 0000.V011.061.250312 | CP12_M.AP.HMC.ALL. 0000.V011.061.250902 | |
| | | | MCU | CP12_M.AP.HMC.ALL. 0000.V011.061.250613 | | CP12_M.MCU.HMC.ALL. 0000.V011.076.250227 |
| | | | | | CP12_M.MCU.HMC.ALL. 0000.V011.076.250513 | |

NOTICE

The AP and MCU software display in the GDS will include the ECU part number first followed by the ROM ID.

Service Procedure:

DIGITAL DOCUMENTATION

This TSB includes repair validation photos. Refer to the latest Warranty Digital Documentation Policy for requirements.

NOTICE

You must initially perform the GDS ECU update in Auto Mode.

- If the ECU update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.

NOTICE

If the vehicle's battery state of charge is not 90% or above, then ensure the battery charger is connected before starting the update. **Ensure** the tablet's battery charge is **above 30%** before performing the software update to avoid update failure.

NOTICE

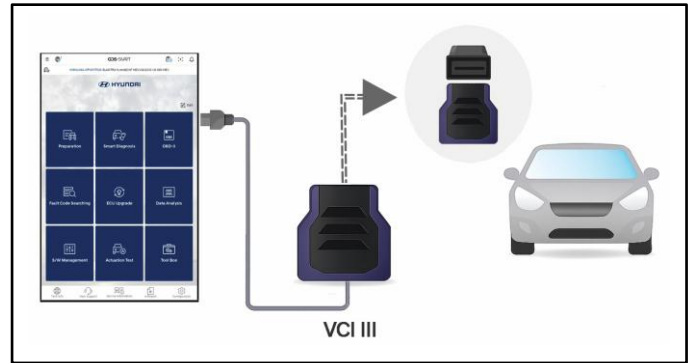
If the update fails after multiple attempts, then perform CAP discharge and try again.

**Information**

- Turn **OFF** all lamps (do **NOT** leave head lamp switch in auto mode) and all accessories.
- Perform update with the ignition switch in the **ON** position.
- Do **NOT** disconnect any cables connected to the vehicle or scan tool during the update.
- Do **NOT** start the engine OR place in **Ready** mode during the update.
- Do **NOT** turn **OFF** the ignition switch during the update.

Configuration of Ethernet Communication on Tablet PC

1. Connect the Ethernet Communication Interface (ECI) DLC cable to the OBD connector of the vehicle.
2. Connect the VCI DLC cable to the ECI.
3. Select the appropriate tablet cable (type C, 5-pin) to the ECI.
4. Connect the cable to the tablet PC.

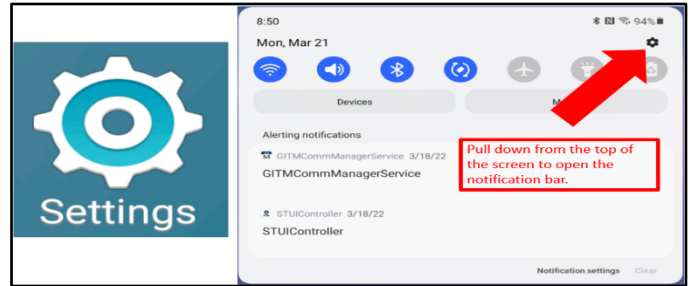
***i* Information**

The connection between the VCI 2 and tablet PC is wireless, whereas the tablet PC is connected to the vehicle through the ECI (Ethernet Adapter).

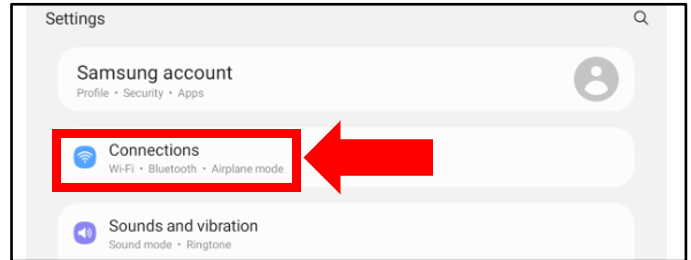
If using the VCI 3, the ECI is **NOT** needed. Connect the tablet directly to the VCI 3 using the USB-C to 19 Pin Cable supplied in the VCI 3 Kit.

GDS Configuration

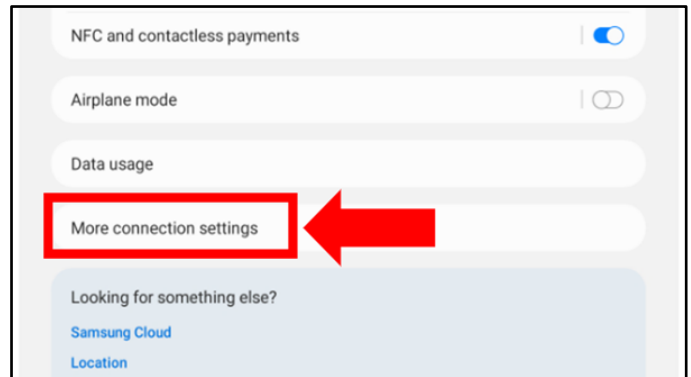
1. Swipe down from the top of the tablet screen to open the notification panel, then select the **Settings** icon.



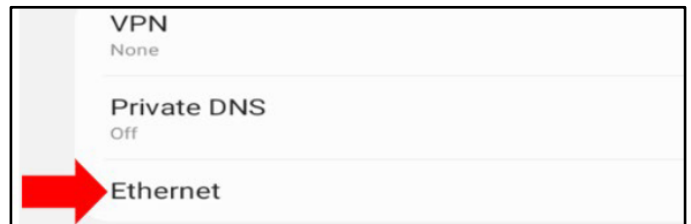
2. Select **Connections**.



3. Select **More connection settings**.



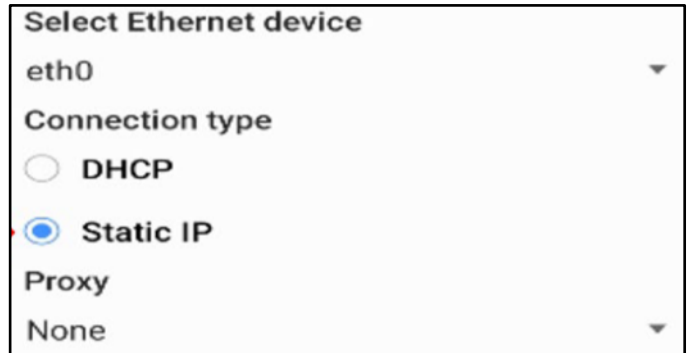
4. Select **Ethernet**.



5. Select **Configure Ethernet Device**.



6. Select **Static IP**.



Select Ethernet device
eth0

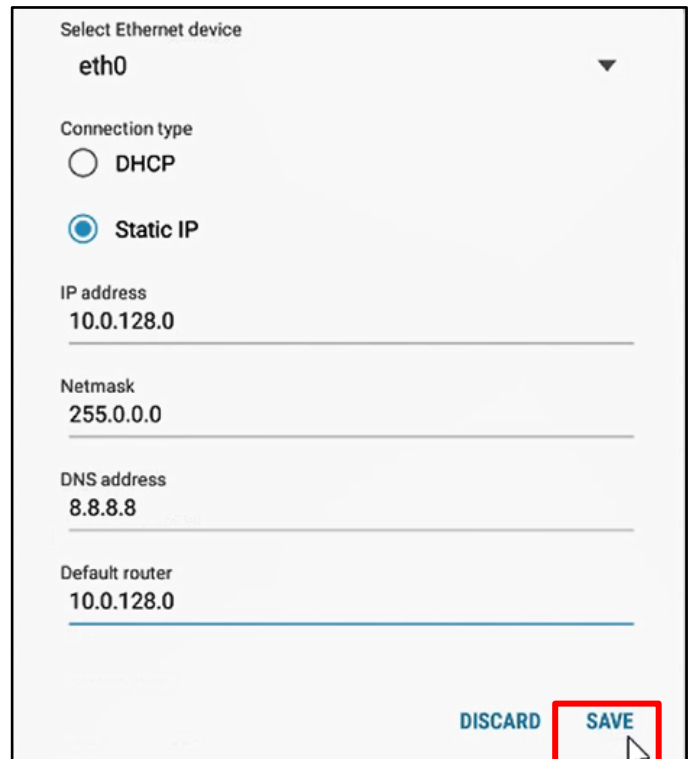
Connection type
 DHCP
 Static IP

Proxy
None

7. Enter the following information into each field:

- IP address: 10.0.128.0
- Netmask: 255.0.0.0
- DNS address: 8.8.8.8
- Default router: 10.0.128.0

Select **SAVE**.



Select Ethernet device
eth0

Connection type
 DHCP
 Static IP

IP address
10.0.128.0

Netmask
255.0.0.0

DNS address
8.8.8.8

Default router
10.0.128.0

DISCARD **SAVE**

8. Open STUI.

i **Information**

Connection settings configuration is now completed.

ECU Update Procedure

1. Perform the **first of 2** required ECU updates in **Auto Mode (AP)**.

Use the **ID Check** to verify the ROM ID before updating the software.

NOTICE

Both **AP** and **MCU** subsystems **MUST** be updated.



Information

Refer to **TSB # 25-GI-011H**, “**ECU Update Procedure for Tablet-Based GDS-Smart**”, for additional information.

2. Verify the ROM ID by selecting the **CLU** system to scan the vehicle’s current ROM ID.

CAUTION

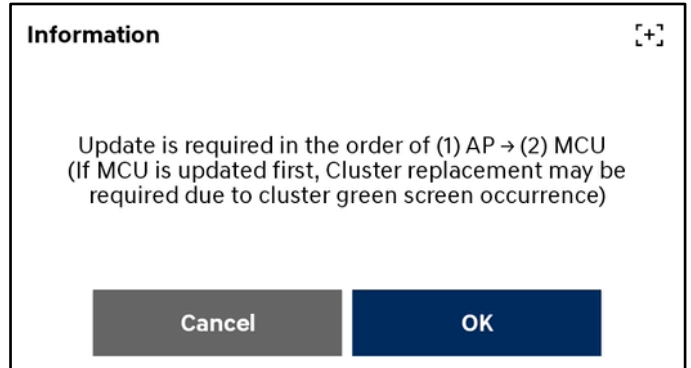
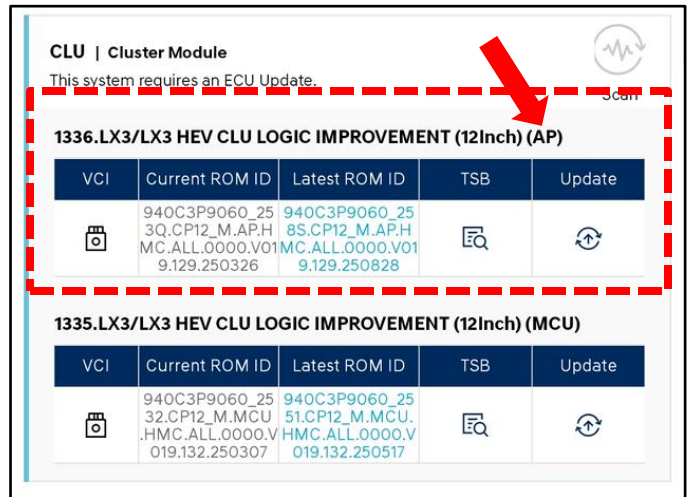
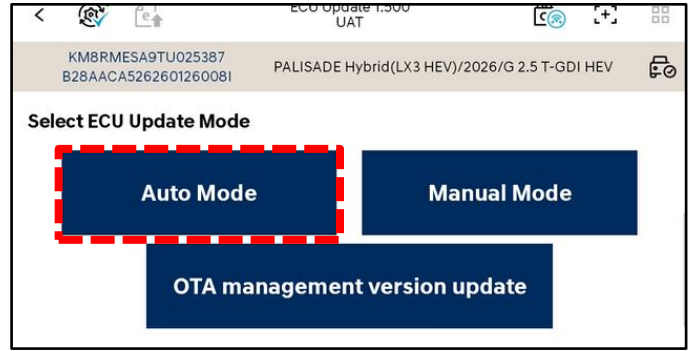
AP should be updated first and then **MCU**, otherwise the cluster module can be damaged and will require replacement.

NOTICE

Check the current ROM ID version and compare it to the ROM ID Information table before attempting to perform the software update.

NOTICE

If the update fails, remove the power connector from the in-cabin fuse box for at least **5 seconds**. Alternatively, disconnect the negative (–) **12V** battery terminal and wait at least **5 seconds**. Reassemble and retry the update.



- After the ECU update process shows 100% complete, follow the prompts on the screen to cycle the ignition **OFF** for at least **10 seconds** to reset the control unit (certain models may take up to **30 seconds**).

i Information

The vehicle state may be in IGN OFF, if so, turn IGN ON, OFF, wait 10 seconds, ON again, and then select OK.

i Information

Use the **Refresh** button to reset the timer.

- The GDS will automatically perform the OTA initializing.

-

DIGITAL DOCUMENTATION



Using the tablet or GDS screen capture function, take a screenshot of the ECU Update “Success” result screen.

Upload the photo to STUI (1 of 2 required).

NOTE: The VIN/Date/Time/Mileage photo imprint is **NOT** required for GDS screenshots.

1336.LX3/LX3 HEV CLU LOGIC IMPROVEMENT (12Inch) (AP)

00:16

Turn IG off for 10 seconds and then back on. Click the OK button to continue.

ROM ID

| | |
|-----------|--|
| Org.ROMID | 940C3P9060_253Q.CP12_M.AP.HMC.ALL.0000.V019.129.250326 |
| Cur.ROMID | 940C3P9060_253Q.CP12_M.AP.HMC.ALL.0000.V019.129.250326 |
| Lat.ROMID | 940C3P9060_258S.CP12_M.AP.HMC.ALL.0000.V019.129.250828 |

OK

Information

OTA initializing is in process.
Please wait.

1336.LX3/LX3 HEV CLU LOGIC IMPROVEMENT (12Inch) (AP)

100%

Success

The ECU Update has successfully completed.

ROM ID

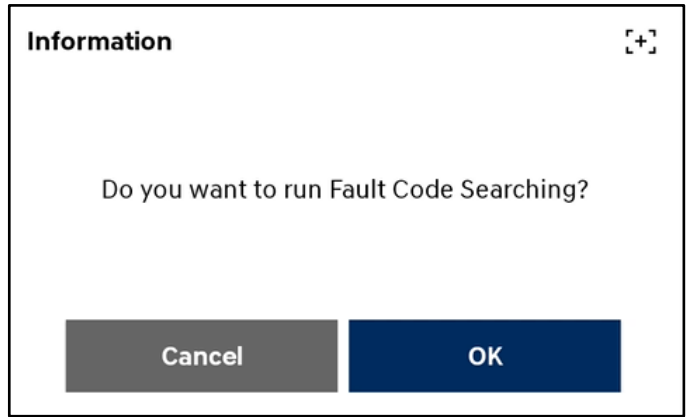
| | |
|-----------|--|
| Org.ROMID | 940C3P9060_253Q.CP12_M.AP.HMC.ALL.0000.V019.129.250326 |
| Cur.ROMID | 940C3P9060_258S.CP12_M.AP.HMC.ALL.0000.V019.129.250828 |
| Lat.ROMID | 940C3P9060_258S.CP12_M.AP.HMC.ALL.0000.V019.129.250828 |

OK

- Select **Cancel** and proceed to updating the **MCU**.

NOTICE

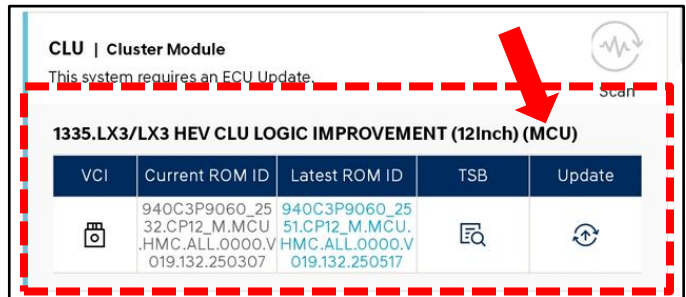
No need to perform the Fault Code Searching as this procedure will be performed after disconnecting the power connector.



- Perform the **second of 2** required ECU updates in **Auto Mode (MCU)**, if applicable.

NOTICE

Both **AP** and **MCU** subsystems **MUST** be updated, if applicable.

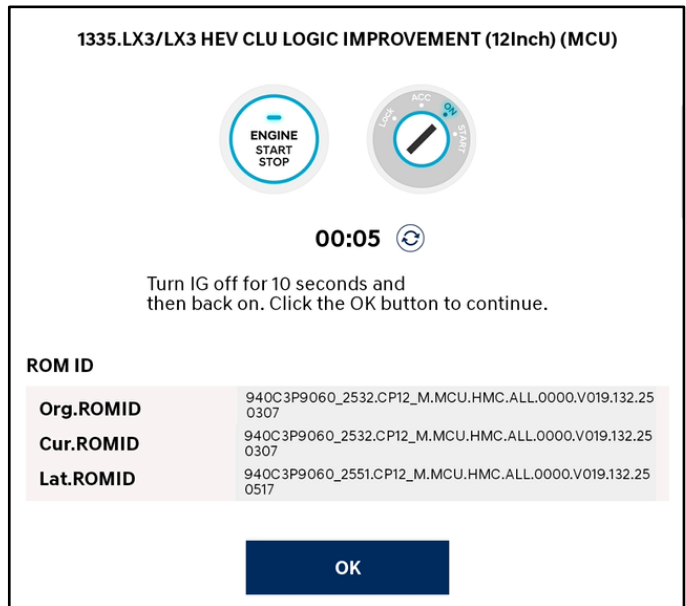


- After the ECU update process shows 100% complete, follow the prompts on the screen to cycle the ignition **OFF** for at least **10 seconds** to reset the control unit (certain models may take up to **30 seconds**).



Information

Use the **Refresh** button to reset the timer.



- 9. The GDS will automatically perform the OTA initializing.

NOTICE

If the GDS does **NOT** automatically perform the OTA initializing, then perform this procedure after the software is updated successfully.



- 10.

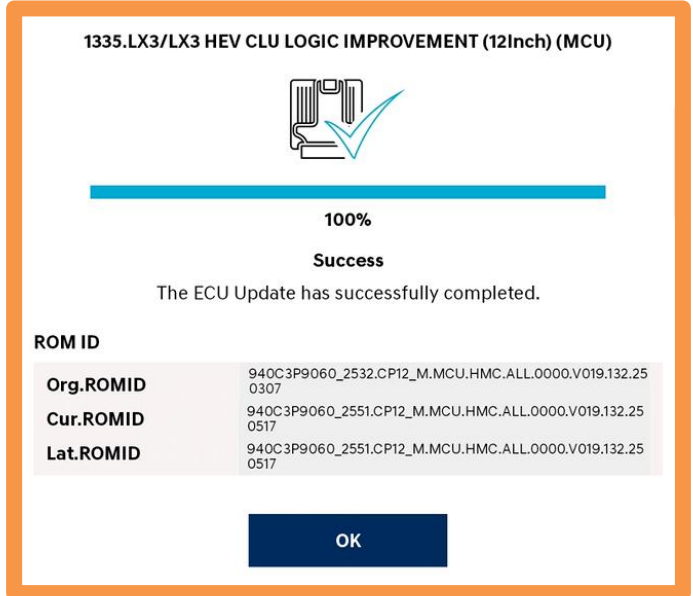
DIGITAL DOCUMENTATION



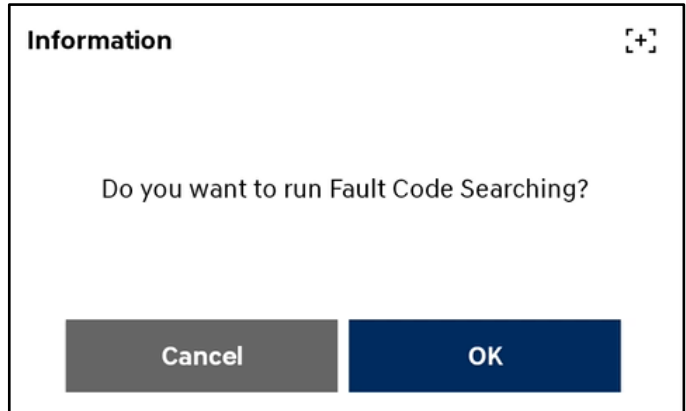
Using the tablet or GDS screen capture function, take a screenshot of the ECU Update "Success" result screen.

Upload the photo to STUI (2 of 2 required).

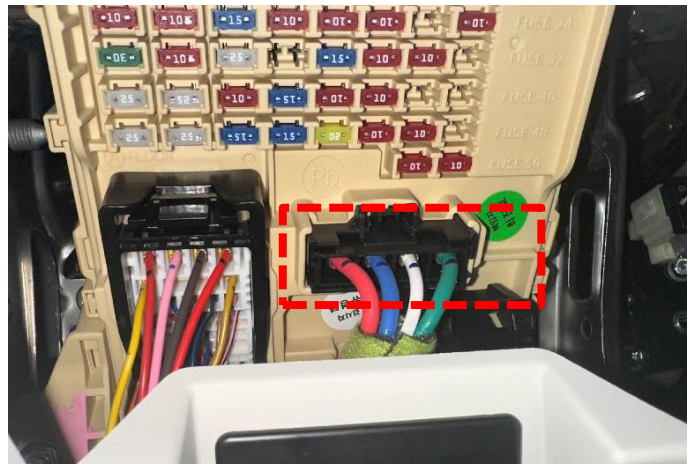
NOTE: The VIN/Date/Time/Mileage photo imprint is **NOT** required for GDS screenshots.



- 11. Select **Cancel** and proceed to disconnecting the power connector.



- 12. Remove the power connector of the indoor fuse box and reconnect after 5 seconds.

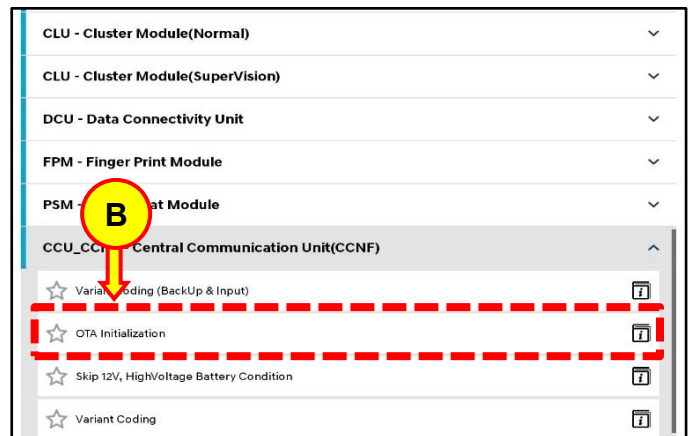
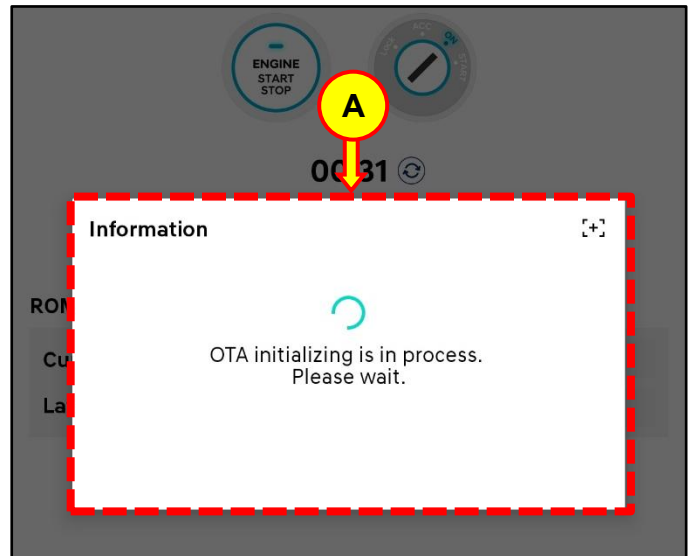


- 13. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.

OTA Initialization (if required)

- 14. OTA initialization (A) should perform automatically after the software update:
 - If OTA initialization performs automatically, then proceed with the service procedure.
 - If the OTA initialization process fails, complete it manually under:
S/W Management > CCU_CCNF - Central Communication Unit (CCNF) > OTA Initialization (B).

Follow the instructions on the screen.



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15. Start the engine OR place in **Ready** mode to confirm proper operation of the vehicle.
16. The service procedure is now complete.

NOTICE

If the ECU update fails in Auto Mode, perform the update in Manual Mode using the password(s) below.

Manual Mode Password:

| Event | Menu | Password |
|-------|--|----------|
| 1336 | LX3/LX3 HEV CLU 940C3-P9060 (12Inch) (AP) | 6230 |
| 1335 | LX3/LX3 HEV CLU 940C3-P9060 (12Inch) (MCU) | 5366 |
| 1346 | NE1a CLU 940C3-PI010/20 (12Inch) (AP) | 5074 |
| | NE1a CLU 940C3-PI000 (12Inch) (AP) | 5076 |
| 1345 | NE1a CLU 940C3-PI010/20 (12Inch) (MCU) | 5073 |
| | NE1a CLU 940C3-PI000 (12Inch) (MCU) | 5075 |
| 1348 | DN8 PE/DN8 PE HEV CLU 940C3-L1100/020 (12Inch) (AP) | 9411 |
| 1347 | DN8 PE/DN8 PE HEV CLU 940C3-L1100/020 (12Inch) (MCU) | 3020 |
| 1350 | NX4 PE/NX4KH 940C3-N9000 (12Inch) (AP) | 9010 |
| | NX4 PE/NX4KH 940C3-N9700/P0770 (12Inch) (AP) | 0901 |
| 1349 | NX4 PE/NX4KH 940C3-N9000 (12Inch) (AP) | 9403 |
| 1352 | NX4a CLU 940C3-CW070 (12Inch) (AP) | 3567 |
| 1354 | NX4aT(OB) CLU 940C3-K5000 (12Inch) (AP) | 9546 |
| 1353 | NX4aT(OB) CLU 940C3-K5000 (12Inch) (MCU) | 9235 |
| 1359 | SX2 CLU 940C3-BE190/BE290 (12Inch) (AP) | 6083 |
| 1358 | SX2 CLU 940C3-BE190/290 (12Inch) (MCU) | 6081 |