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|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------|
|  <b>HYUNDAI</b><br><b>Technical Service Bulletin</b> | GROUP<br><b>FUEL SYSTEM</b> | NUMBER<br><b>24-FL-003H</b>                    |
|                                                                                                                                       | DATE<br><b>MARCH 2024</b>   | MODEL(S)<br><b>ELANTRA (CN7)<br/>KONA (OS)</b> |
| <b>SUBJECT:</b> ECU SOFTWARE UPDATE FOR T-GDI LOGIC IMPROVEMENT                                                                       |                             |                                                |

**Description:** This bulletin contains the software update procedure for the Engine Control Unit (ECU) on certain 2021-2023MY Elantra (CN7) and 2022-2023MY Kona (OS) vehicles equipped with the 1.6 liter T-GDI Gamma 2 engine, that may exhibit a warning lamp with one or more of the DTCs listed below:

- **P250F** - Engine Oil Level Too Low
- **P011B, P050C** - Engine Coolant Temperature/intake Air Temperature Correlation
- **P00B7, P2B60** - Engine Coolant Flow Low/Performance

**Applicable Vehicles:**

- 2021–2023MY Elantra (CN7) equipped with the 1.6T-GDI engine
- 2022–2023MY Kona (OS) equipped with the 1.6T-GDI engine

**GDS Information:**

| System | Event # | Description                                                             |
|--------|---------|-------------------------------------------------------------------------|
| Engine | 1054    | CN7 With GAMMA2 T-GDI - Improved Logic Application For Specific Issue   |
|        | 1055    | OS PE with GAMMA2 T-GDI - Improved Logic Application For Specific Issue |

(\*or use a later available event as listed in the GDS Engine System Update screen if one is available.)

**Warranty Information:**

| Model                      | Op. Code | Operation  | Op. Time   | Casual Part                                                        | Nature Code | Cause Code |
|----------------------------|----------|------------|------------|--------------------------------------------------------------------|-------------|------------|
| Elantra (CN7)<br>Kona (OS) | 39121F18 | ECU Update | 0.3<br>M/H | Please refer to WebLTS for applicable part to labor op combination | I11         | ZZ3        |

**NOTE 1:** Normal warranty applies.

**NOTE 2:** Submit claim on Claim Entry Screen as “Warranty” type.

**NOTE 3:** This TSB includes Repair validation photos. Op times include VIN, Mileage, and photo capture of the “ECU update complete” screen as outlined in the Digital Documentation Policy.

**NOTE 4:** If a part is found in need of replacement while performing this TSB 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.

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

## Service Procedure:

**STUI**

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

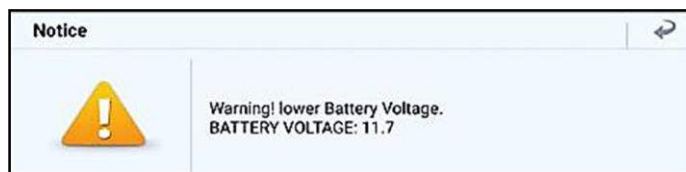
**NOTICE**

**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.

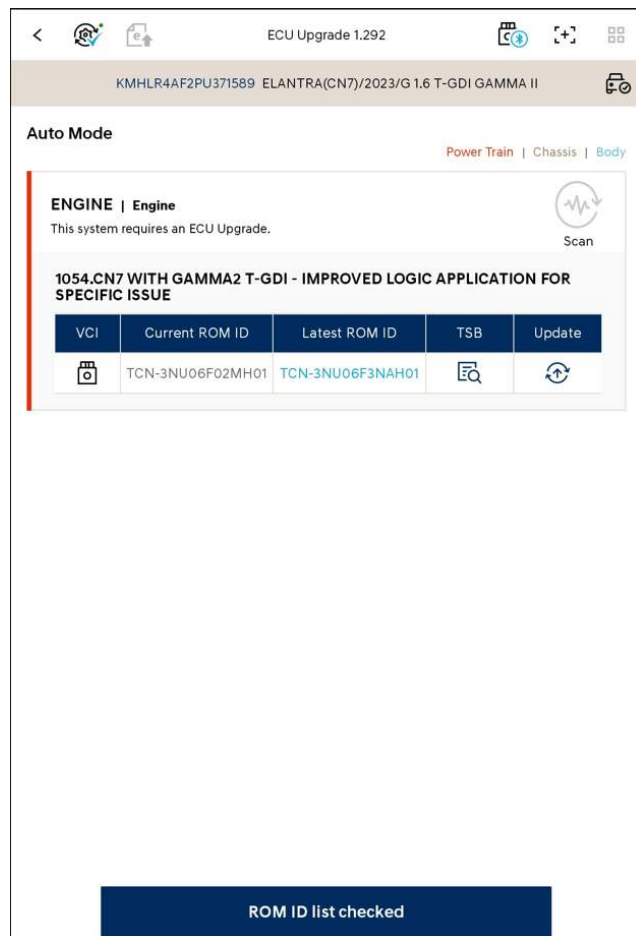
**NOTICE****GDS Vehicle Battery Low Voltage Warning:**

If voltage is below 12 volts per the GDS warning, then select **Back** and attach a battery charger to ensure an adequate battery charge for reliable update results. Turn ignition back **ON**, and then retry the ECU update again.



1. Perform the ECU update in Auto Mode.

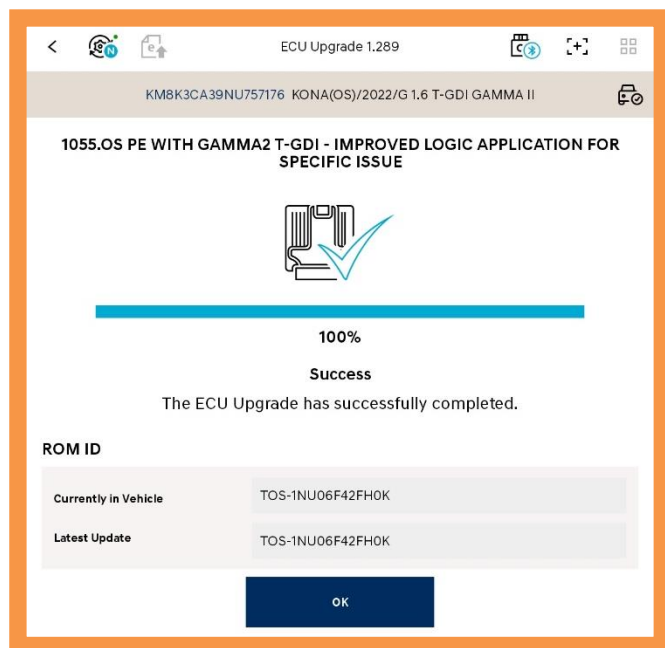
Use the **ID Check** to verify the ROM ID before updating the software.



- 2.

**STUI**


Take a screenshot of the ECU update complete screen using your tablet and upload to STUI.



3. After the ECU update process shows 100% complete, cycle the ignition key to **OFF** for at least 10 seconds to reset the control unit.

**SUBJECT:**

## ECU SOFTWARE UPDATE FOR T-GDI LOGIC IMPROVEMENT

4. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.
5. Start the vehicle to confirm proper operation of the vehicle.

**ROM ID Information Table: Event 1054**

| Model       | TM   | Immobilizer? | ECU Part Number | ROM ID                                                                                           |                  |
|-------------|------|--------------|-----------------|--------------------------------------------------------------------------------------------------|------------------|
|             |      |              |                 | Old                                                                                              | New              |
| 21MY<br>CN7 | 7DCT | Yes          | 39121-2MCN0     | TCN-1NU06F32BH01<br>TCN-1NU06F22BH01<br>TCN-1NU06F12AH01<br>TCN-1NU06F42DH01<br>TCN-1NU06F52JH01 | TCN-1NU06F62JH01 |
|             | 6MT  | Yes          | 39125-2MCN0     | TCN-1NU06F32B601<br>TCN-1NU06F22B601<br>TCN-1NU06F12A601<br>TCN-1NU06F42D601<br>TCN-1NU06F52J601 | TCN-1NU06F62J601 |
| 22MY<br>CN7 | 7DCT | Yes          | 39121-2MCN1     | TCN-2NU06F02BH01<br>TCN-2NU06F12BH01<br>TCN-2NU06F22DH01<br>TCN-2NU06F32JH01                     | TCN-2NU06F42JH01 |
|             | 6MT  | Yes          | 39125-2MCN1     | TCN-2NU06F02B601<br>TCN-2NU06F12B601<br>TCN-2NU06F22D601<br>TCN-2NU06F32J601                     | TCN-2NU06F42J601 |
| 23MY<br>CN7 | 7DCT | Yes          | 39121-2MCN2     | TCN-3NU06F02MH01<br>TCN-3NU06F12NH01<br>TCN-3NU06F22NH01                                         | TCN-3NU06F3NAH01 |
|             | 6MT  | Yes          | 39125-2MCN2     | TCN-3NU06F02M601<br>TCN-3NU06F12N601<br>TCN-3NU06F22N601                                         | TCN-3NU06F3NA601 |

**ROM ID Information Table: Event 1055**

| Model      | TM   | Immobilizer? | ECU Part Number | ROM ID                                                                       |                  |
|------------|------|--------------|-----------------|------------------------------------------------------------------------------|------------------|
|            |      |              |                 | Old                                                                          | New              |
| 22MY<br>OS | 7DCT | Yes          | 39121-2MAL0     | TOS-1NU06F02EH0K<br>TOS-1NU06F12FH0K<br>TOS-1NU06F22FH0K<br>TOS-1NU06F32FH0K | TOS-1NU06F42FH0K |
| 23MY<br>OS |      |              | 39121-2MAL1     | TOS-3NU06F02MH0K<br>TOS-3NU06F12NH0K                                         | TOS-3NU06F2NAH0K |

**Manual Mode Password: Event 1054**

| ECM Menu            | Password |
|---------------------|----------|
| CN7 ECU 39121-2MCN0 | 6665     |
| CN7 ECU 39125-2MCN0 | 8858     |
| CN7 ECU 39121-2MCN1 | 5045     |
| CN7 ECU 39123-2MCN1 | 3111     |
| CN7 ECU 39125-2MCN1 | 5470     |
| CN7 ECU 39127-2MCN1 | 6931     |
| CN7 ECU 39121-2MCN2 | 2321     |
| CN7 ECU 39123-2MCN2 | 7621     |
| CN7 ECU 39125-2MCN2 | 1132     |
| CN7 ECU 39127-2MCN2 | 1270     |

**Manual Mode Password: Event 1055**

| ECM Menu              | Password |
|-----------------------|----------|
| OS PE ECU 39121-2MAL0 | 3041     |
| OS PE ECU 39121-2MAL1 | 7060     |