 <b>HYUNDAI</b> <b>Technical Service Bulletin</b>	GROUP <b>CAMPAIGN</b>	NUMBER <b>21-01-043H</b>
	DATE <b>MAY, 2021</b>	MODEL(S) <b>ELANTRA (CN7/CN7A)</b>
<b>SUBJECT:</b>	ECM SOFTWARE UPDATE – FUEL ADAPTATION LEARNING AND BLOWER MOTOR CONTROL LOGIC (SERVICE CAMPAIGN T6R)	

**\* IMPORTANT**

**\*\*\*\*\*Dealer Stock and Retail Vehicles\*\*\*\*\***

Dealers must perform this Service Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the Service Department, access Hyundai Motor America's "Warranty Vehicle Information (VIS)" screen via WEBDCS to identify open Campaigns.

**Description:**

This bulletin provides information related to the Engine Control Module (ECM) software update for 2021MY Elantra (CN7/CN7A) vehicles equipped with the 2.0L engine to update the ECM logic for the following conditions and DTCs:

- Incorrect learning of the fuel adaptive values can occur if the engine is started at 14°F (-10°C) or colder ambient temperatures. If incorrect values are learned, the engine may stall when coming to a stop or at idle. DTC P016C: Closed Loop Air/Fuel Ratio Control at Limit-System Too Lean may be detected. The ECM software revises the logic for fuel adaptation learning and improves engine performance at idle.
- The ECM software also revises the blower motor control duty cycle logic for DTC P1CD0: Air Blower Motor Inverter Performance.

**Applicable Vehicle:** Certain 2021MY Elantra (CN7/CN7A) equipped with 2.0L engine.

**Warranty Information:**

Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
Elantra (CN7)	10D092R1	ECM UPGRADE	0.3 M/H	39171-2JCB0	I14	ZZ3
Elantra (CN7A)	10D092R1	ECM UPGRADE	0.3 M/H	39171-2JBB5	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 Service Campaign and the affected part is still under warranty, submit a separate warranty 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.**

**GDS Information:**

System Selection: **ENGINE CONTROL MODULE (ECM)**

Event #	Description
<b>698*</b>	CN7 2.0 MPI - ECU LOGIC IMPROVEMENT FOR NU ATK IDLE STABILITY IN EXTREME COLD CONDITION

\*or use a later available event as listed in the GDS-M ECU Update screen if one is available.

**Service Procedure:**

1. Perform GDS Mobile software update per TSB **15-GI-001**.
2. After successful completion of **ECM software update**, check for Diagnostic Trouble Codes in **ALL** menus and erase any DTC.
3. Confirm normal vehicle operation.

**NOTICE**

**You must initially perform GDS-M ECM Update in Auto Mode.**

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

**WARNING**

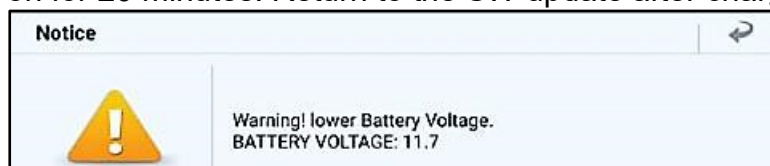
**GDS-M Vehicle Battery Low Voltage Warning:**

When the vehicle battery is lower than 12 volts, the GDS-M will trigger a Low Battery Voltage Warning. If this Warning occurs,

**A.** Connect the battery to a fully charged battery jump pack or GR8 charger using “Power Supply Mode” to continue the software update.

**OR**

**B.** Select “BACK” to exit the SW update. Then, start the engine and idle with the headlights on for 20 minutes. Return to the SW update after charging the battery.



**SUBJECT:**ECM SOFTWARE UPDATE – FUEL ADAPTATION LEARNING AND  
BLOWER MOTOR CONTROL LOGIC (SERVICE CAMPAIGN T6R)**ECM ROM ID Information Table:**

MODEL	ENGINE	PCM P/No.	ROM ID	
			OLD	NEW
21MY Elantra (CN7/CN7A)	2.0L ATK	39171-2JCB0	CNCVD0AMF3XCSFEA CNBVD0AMF3XCSFDA CNCVD0AMF3XCSFFA	CNCVD0AMF3XCSFFB
		39171-2JCB5	CNCVD0AMFCXCSFEA CNBVD0AMFCXCSFDA CNCVD0AMFCXCSFFA	CNCVD0AMFCXCSFFB
		39173-2JCB0	CNCVD0ASF3XCSFEA CNBVD0ASF3XCSFDA CNCVD0ASF3XCSFFA	CNCVD0ASF3XCSFFB
		39171-2JCC0	CNCWD0AMF3XCSFEA CNBWD0AMF3XCSFDA CNCWD0AMF3XCSFFA	CNCWD0AMF3XCSFFB
		39171-2JCC5	CNCWD0AMFCXCSFEA CNBWD0AMFCXCSFDA CNCWD0AMFCXCSFFA	CNCWD0AMFCXCSFFB
		39173-2JCC0	CNCWD0ASF3XCSFEA CNBWD0ASF3XCSFDA CNCWD0ASF3XCSFFA	CNCWD0ASF3XCSFFB
		39171-2JBB5	CNCWD0AMFCXCSFEA CNBWD0AMFCXCSFDA CNCWD0AMFCXCSFFA	CNCWD0AMFCXCSFFB
		39171-2JBC0	CNCWD0ASF3XCSFEA CNBWD0ASF3XCSFDA CNCWD0ASF3XCSFFA	CNCWD0ASF3XCSFFB
		39171-2JBD5	CNCVD0AMFCXCSFEA CNBVD0AMFCXCSFDA CNCVD0AMFCXCSFFA	CNCVD0AMFCXCSFFB
		39171-2JBE0	CNCVD0ASF3XCSFEA CNBVD0ASF3XCSFDA CNCVD0ASF3XCSFFA	CNCVD0ASF3XCSFFB

**Manual Mode Password Information Tables:**

EVENT #	MENU	PASSWORD
#698	CN7(a) 2.0 MPI -IMMO 39173-2JCC0, 39171-2JBC0	9801
	CN7(a) 2.0 MPI -IMMO 39173-2JCB0, 39171-2JBE0	9803
	CN7(a) 2.0 MPI +IMMO 39171-2JCC0	9806
	CN7(a) 2.0 MPI +IMMO 39171-2JCC5, 39171-2JBB5	9807
	CN7(a) 2.0 MPI +IMMO 39171-2JCB0	9808
	CN7(a) 2.0 MPI +IMMO 39171-2JCB5, 39171-2JBD5	9809