

 HYUNDAI Technical Service Bulletin	GROUP CAMPAIGN	NUMBER 21-01-043H
	DATE MAY, 2021	MODEL(S) ELANTRA (CN7/CN7A)
SUBJECT:	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.

SUBJECT: ECM SOFTWARE UPDATE – FUEL ADAPTATION LEARNING AND BLOWER MOTOR CONTROL LOGIC (SERVICE CAMPAIGN T6R)

GDS Information:

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

Event #	Description
698*	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.



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