



Technical Service Bulletin

GROUP CAMPAIGN	NUMBER 21-01-017H
DATE March, 2021	MODEL(S) Elantra (CN7/CN7a)

SUBJECT: IVT DAMPER CLUTCH LOGIC UPDATE
(SERVICE CAMPAIGN T6B)

* 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 "Vehicle Information Screen (VIS)" via WEBDCS to identify open Campaigns.

Description: This bulletin provides the service procedure to update the Transmission Control Unit (TCU) software for certain Elantra (CN7/CN7a) vehicles equipped with the 2.0L MPI and Intelligent Variable Transmission (IVT). This update to the damper clutch logic is to address a potential engine stall condition immediately following Forward Collision Avoidance (FCA) activation under specific operating conditions at low engine RPM and low vehicle speeds. In the event a low-speed stall does occur, the engine can immediately be restarted.

Applicable Vehicles: Certain 21MY Elantra (CN7/CN7A) vehicles equipped with 2.0L MPI IVT

ROM ID:

Vehicle				ROM ID	
	Engine	TM	PCU P/No.	OLD	NEW
Elantra (CN7)	2.0L MPI	IVT	39171-2JCB5	CCN0N20NS0 CCN0N20NS1 CCN0N20NS2	CCN0N20NS5
			39173-2JCB0		
			39171-2JCC0		
			39171-2JCC5		
39173-2JCC0					
Elantra (CN7a)			39171-2JBD5		
			39171-2JBE0		
			39171-2JBB5		
	39171-2JBC0				

GDS Information:

System Selection: **TRANSMISSION CONTROL UNIT (TCU)**

Event #	Description
677	677.CN7/CN7a -TCU LOGIC IMPROVEMENT FOR IVT OPERATION

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

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Causal Code	Nature Code
Elantra (CN7)	10D035R0	TCU UPGRADE	0.3 M/H	39171-2JCB5	T72	ZZ3
Elantra (CN7a)	10D035R1	TCU UPGRADE	0.3 M/H	39171-2JBD5	T72	ZZ3

Note 1: Submit Claim on Campaign Claim Entry Screen

Note 2: If a part is found in need of replacement while performing this 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.

CAUTION

1. Verify the vehicle battery has reasonable charge.
2. Turn off all lamps (Do not leave head lamp switch in auto mode.), and all accessories.
3. Perform update with the ignition switch in the **ON** position.
4. Do not disconnect any cables connected to the vehicle or scan tool during update.
5. Do not start the engine during update.
6. Do not turn off the ignition switch during update.

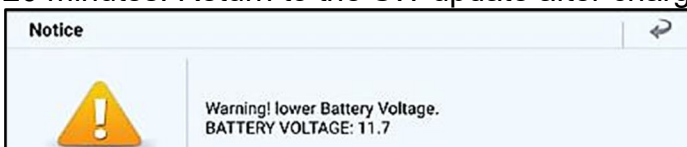
WARNING

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.



NOTICE

Perform the update in Auto Mode. If the automatic update is unsuccessful, perform the Manual Update Procedure.

Service Procedure

A. Automatic Update Procedure

1. Perform the GDS-M software update per TSB 15-GI-001.
2. Reset the TCU adaptive learning values.
3. Start the engine to confirm the proper operation of the vehicle.

B. Manual Update Procedure

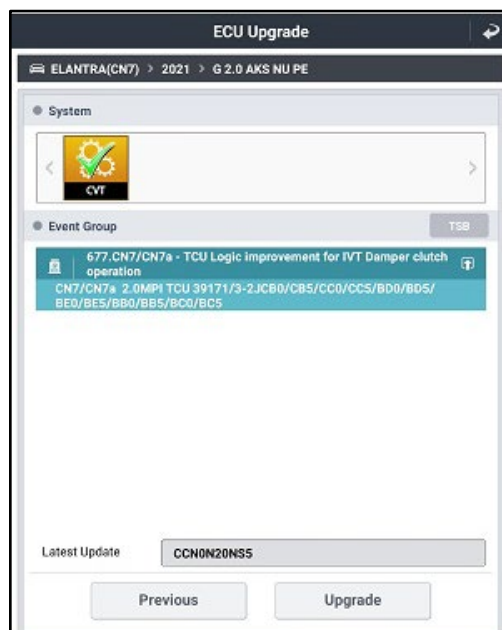
NOTICE

Only perform the manual update procedure if the automatic update procedure is unsuccessful.

If the automatic upgrade is unsuccessful, turn the ignition off for about 10 seconds. Turn the ignition back on and reset the control unit before performing the manual update.

1. From the GDS-M home screen, select **ECU Upgrade**.
2. From the ECU Upgrade screen, select **Manual Mode**, then select the **Update Event 677**.

Update Event
677.CN7/CN7a-TCU LOGIC IMPROVEMENT FOR IVT OPERATION



3. A password prompt will appear. Enter the password and select **Upgrade**.

MENU	PASSWORD
CN7/CN7a 2.0MPI TCU 39171/3-2JCB0/CB5/CC0/CC5/BD0/BD5/BE0/BE5/BB0/BB5/BC0/BC5	3917

4. The update will occur.

Once the update finishes, turn the ignition off for 10 seconds, then turn the ignition back on.

5. Check if any Diagnostic Trouble Codes (DTCs) were created by the update, and clear all related DTCs.
6. Reset the TCU adaptive learning values.
7. Start the engine to confirm the proper operation of the vehicle.
8. The service procedure is now complete.