 <b>HYUNDAI</b> <b>Technical Service Bulletin</b>	GROUP <b>CAMPAIGN</b>	NUMBER <b>23-01-006H</b>
	DATE <b>MARCH 2023</b>	MODEL(S) <b>ELANTRA (CN7/CN7a)</b>
<b>SUBJECT:</b> IVT DAMPER CLUTCH LOGIC UPDATE (SERVICE CAMPAIGN 967)		

**\* IMPORTANT**

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.

Access the “Vehicle Information” screen 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.

**STUI**



**This TSB includes a STUI picture as a requirement.** The STUI picture requires the VIN and date of the repair to be clearly visible. Please include the last 6 digits of the VIN and date of the repair on a piece of paper next to the campaign sticker. Ensure the captured picture is completed according to the steps in the TSB. All submitted claims without an associated STUI picture that do not capture the VIN, repair date, and sticker are subject to debit. **In addition, any claims found to have an illegible, incomplete, missing, or incorrect picture are subject to debit.**

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

**ROM ID:**

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

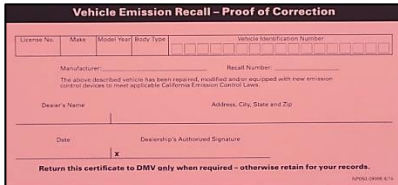
**GDS Information:**

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.)

**Parts Information:**

PART NAME	PART NUMBER	QTY.	FIGURE	REMARKS
Campaign Sticker	00305-SC967	1	<p style="text-align: center;"><b>967</b></p> <p>Dealer Code: Date:  00305 SC967</p>	Apply to all vehicles regardless of state.
Vehicle Emission Recall - Proof of Correction Card	NP050-09006	1		Order only for States: CA, CT, DE, MA, MD, ME, NJ, NY, OR, PA, RI, VT, WA

**Warranty Information:**

Model	Op. Code	Operation	Op. Time	Causal Part	Causal Code	Nature Code
Elantra (CN7)	10D035R3	TCU Upgrade & Sticker Install	0.4 M/H	39171-2JCB5	T72	ZZ3
Elantra (CN7a)	10D035R4	TCU Upgrade & Sticker Install	0.4 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.

**Note 3:** If TCU is found to already be updated, please submit the labor OP code provided above for the appropriate model, apply sticker, and provide card if necessary.

**Note 4:** OP time includes taking a STUI picture & uploading. A STUI picture of the installed label under the hood along with a piece of paper displaying the last 6 digits of the VIN and date of the repair must be included. **If not included, claim will be subject to debit.**

**i Information**

**You must initially perform GDS DCT TCU Update in Auto Mode.**

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

**i Information**

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.

**NOTICE**

**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.



Failure to do either one of these steps can cause the vehicle battery to die during the update, causing the vehicle to become inoperable.

**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.

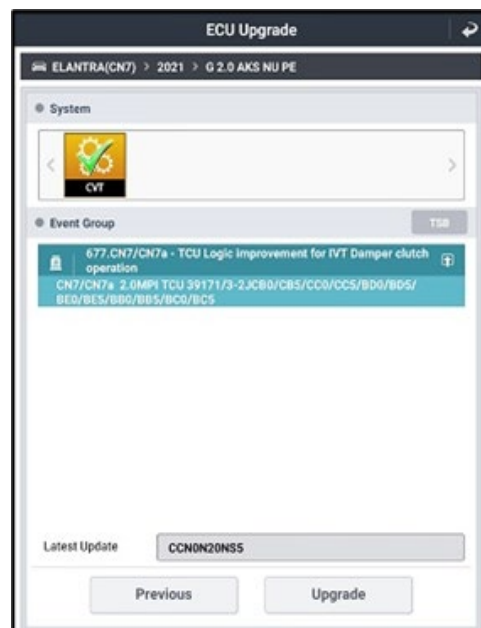
**B. Manual Update Procedure**

**NOTICE**

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**.

<p><b>Update Event</b></p> <p><b>677.CN7/CN7a-TCU LOGIC IMPROVEMENT FOR IVT OPERATION</b></p>
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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.

**For All Vehicles:**

Fill in the information on the 00305-SC967 Campaign Sticker and apply onto the hood in the area below the Emission Label as shown.

Be sure to clean the mounting surface to ensure proper label adhesion.

The campaign procedure is complete.

***i* Information**

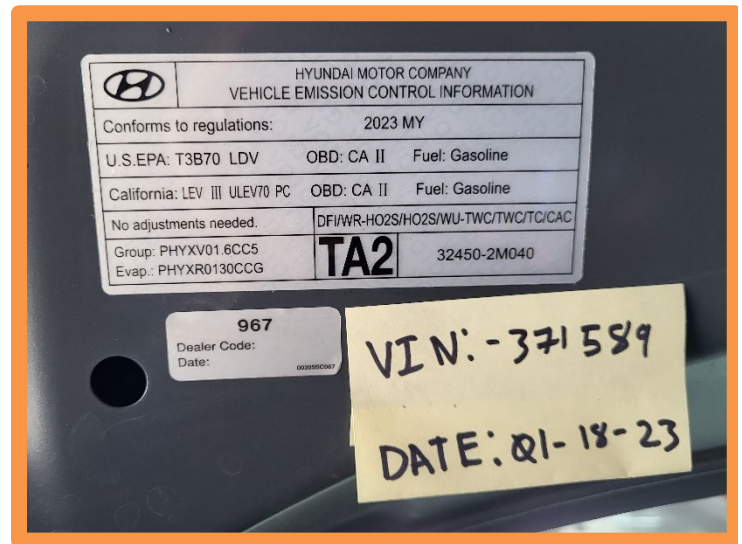
- Be sure to clean the mounting surface to ensure proper label adhesion.

**STUI**



Using STUI, photograph the campaign sticker along with the last 6 digits of the VIN and the date of the repair on a piece of paper.

Upload the photo to STUI.



**For vehicles registered in California, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington:**

**VEHICLE EMISSION RECALL - PROOF OF CORRECTION CARD**

A Vehicle Emission Recall - Proof of Correction card must be filled out for all vehicles registered in California, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington. Residents of these states, who own an affected vehicle, will be required to possess a Vehicle Emission Recall - Proof of Correction card as evidence of voluntary service campaign completion, when they apply for vehicle registration renewal.

**WHAT TO DO WITH THE CARD:**

The Vehicle Emission Recall - Proof of Correction card must be completed by the Dealership's Service Manager using a permanent ink pen. A fine point pen is recommended. When filling in the information, copy the information directly from the vehicle, not from the repair order. ALL INFORMATION MUST BE PRINTED AND NEAT.

The copy of the card shown below indicates the areas to be filled in. Each area must be filled in.

**The completely filled out Vehicle Emission Recall - Proof of Correction card should be given to the owner of the vehicle upon completion of the Campaign (see next page).**

The diagram shows a 'Vehicle Emission Recall - Proof of Correction' card with ten numbered arrows pointing to specific fields:

- 1. Enter Vehicle's License Number (License No.)
- 2. Enter "ELANTRA" (Make)
- 3. Enter Model Year (Model Year)
- 4. Enter "ELANTRA" (Body Type)
- 5. Enter the vehicle's VIN Number (Vehicle Identification Number)
- 6. Enter "967" (Recall Number)
- 7. Enter Dealership Name (Dealer's Name)
- 8. Enter Dealership's Address. NOTE: Enter the physical address, not the mailing address (not a P.O. Box) (Address, City, State and Zip)
- 9. Enter Date of Repair (Date)
- 10. Service Manager Sign Here (Dealership's Authorized Signature)

The card also contains the following text: "The above described vehicle has been repaired, modified and/or equipped with new emission control devices to meet applicable California Emission Control Laws." and "Return this certificate to DMV only when required - otherwise retain for your records." The form number NP050-09006 8/14 is printed in the bottom right corner.