 HYUNDAI Technical Service Bulletin	GROUP CAMPAIGN	NUMBER 22-01-041H-1
	DATE DECEMBER 2022	MODEL(S) ELANTRA HYBRID (CN7 HEV)
SUBJECT: DTC P17D249 MODULAR CLUTCH ACTUATOR TCU UPDATE (SERVICE CAMPAIGN 983)		

This bulletin supersedes TSB 22-01-041H due to an error in the ROM ID table.

★ 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 maintenance or repair.

Access the "Vehicle Information" screen via WEBDCS to identify open campaigns.

DESCRIPTION: This bulletin provides information related to a Modular Clutch Actuator (MCA) compliance software update for P17D249, a permanent DTC that cannot be cleared with the CARB drive cycle. The software update allows the MCA to send the appropriate diagnostics status to the Hybrid Power Control Unit (HPCU) so the DTC can be cleared when the CARB drive cycle has been met. Certain vehicles may experience a check engine light.

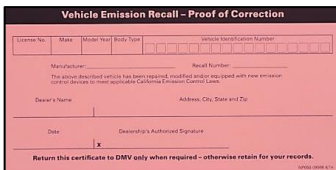
STUI



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 2021-22MY Elantra Hybrid(CN7 HEV) vehicles equipped with 6-speed Double Clutch Transmissions and produced from 12/15/2020 – 11/26/2021.

PARTS INFORMATION:

PART NAME	PART NUMBER	QTY.	FIGURE	REMARKS
Campaign Sticker	00305-SC983	1	983 Dealer Code: Date: 00305 SC983	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

Circulate To: Service Manager, Warranty Manager, Service Advisors, Technicians, Fleet Repair

WARRANTY INFORMATION:

Model	Op Code	Operation	Op Time	Casual Part	Nature Code	Cause Code
Elantra Hybrid (CN7 HEV)	10D220R0	MCA UPDATE	0.4 M/H	41050-2B100	T72	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 the campaign 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 the repair.

NOTE 3: 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 the date of the repair must be included and uploaded to STUI. If not included, claim will be subject to debit.

SERVICE PROCEDURE:

1. Before upgrading the control unit software, first verify the vehicle is affected by checking the version of the vehicle’s control unit ROM ID against the TCU ROM Information Table below.

TCU ROM INFORMATION TABLE:

Model	TM	PCU Part Number	ROM ID	
			Old	New
Elantra Hybrid (CN7 HEV)	6DCT	41050-2B100	M024	M031
		41050-2B110	M029	M031

2. Initially perform the GDS MCA Update in Auto Mode. Refer to the GDS Information Table below for software information.
 - If the MCU update starts but then fails in Auto Mode, disconnect the battery cables then touch the cables together for one minute. Reconnect the battery cables, attach a battery charger and perform the **MANUAL UPDATE** below.
 - Refer to the General Instructions found in TSB 15-GI-001 (GDS Mobile).

GDS INFORMATION:

System Selection → **MOTOR CLUTCH ACTUATOR (MCA)**

Event #	Description
764*	764.CN7 HEV ACTUATOR-ENGINE CLUTCH LOGIC IMPROVEMENT

(*or use a later available event as listed in the GDS MCA update screen, if one is available.)

MANUAL UPDATE:

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

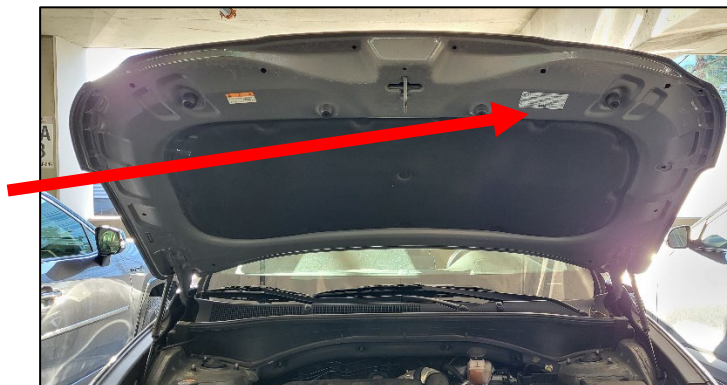
Model	MENU	Password
Elantra Hybrid (CN7 HEV)	CN7 HEV 6DCT 41050-2B100/110	2110

3. After the MCA Update is completed, check for Diagnostic Trouble Codes (DTC), and erase any DTCs if present.

- 4. Fill in the information on the 00305-SC983 Campaign Sticker and apply onto the hood in the area below the Emission Label as shown.

i Information

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

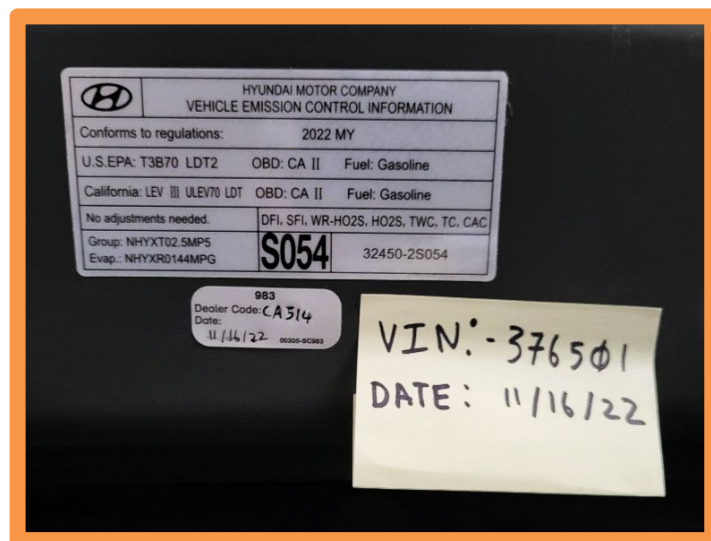


STUI



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.



HYUNDAI MOTOR COMPANY VEHICLE EMISSION CONTROL INFORMATION	
Conforms to regulations: 2022 MY	
U.S.EPA: T3B70 LDT2	OBD: CA II Fuel: Gasoline
California: LEV III ULEV70 LDT	OBD: CA II Fuel: Gasoline
No adjustments needed.	DFI, SFI, WR-HO2S, HO2S, TWC, TC, CAC
Group: NHYXT02.5MP5	S054 32450-2S054
Evap.: NHYXR0144MPG	

983
Dealer Code: CA 314
Date: 11/16/22 00305-SC983

VIN: -376501
DATE: 11/16/22

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.

The diagram shows a 'Vehicle Emission Recall - Proof of Correction' card with the following fields and callouts:

- 1. Enter Vehicle's License Number (points to License No.)
- 2. Enter "Hyundai" (points to Make)
- 3. Enter Model Year (points to Model Year)
- 4. Enter "ELANTRA HYBRID" (points to Body Type)
- 5. Enter the vehicle's VIN Number (points to Vehicle Identification Number)
- 6. Enter "983" (points to Recall Number)
- 7. Enter Dealership Name (points to Dealer's Name)
- 8. Enter Dealership's Address. NOTE: Enter the physical address, not the mailing address (not a P.O. Box) (points to Address, City, State and Zip)
- 9. Enter Date of Repair (points to Date)
- 10. Service Manager Sign Here (points to Dealership's Authorized Signature)

The card also contains the following text:

Manufacturer: _____ Recall Number: _____

The above described vehicle has been repaired, modified and/or equipped with new emission control devices to meet applicable California Emission Control Laws.

Dealer's Name _____ Address, City, State and Zip _____

Date _____ Dealership's Authorized Signature _____

Return this certificate to DMV only when required - otherwise retain for your records.

NP050-09006 8/14

The campaign procedure is now complete.