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

★ 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.

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.

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.

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.

PARTS INFORMATION:

| PART NAME | PART NUMBER | QTY. | FIGURE | REMARKS |
|--|-------------|------|--------|---|
| Campaign Sticker | 00305-SC983 | 1 | | 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 |

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 | M240 | M310 |
| | | 41050-2B110 | M290 | M310 |

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.)

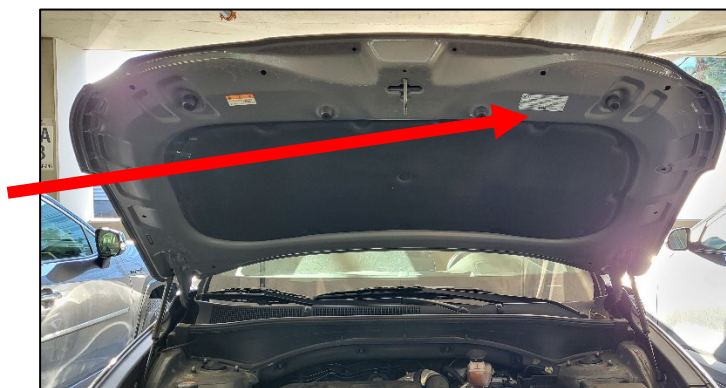
MANUAL UPDATE:

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 |

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

- 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

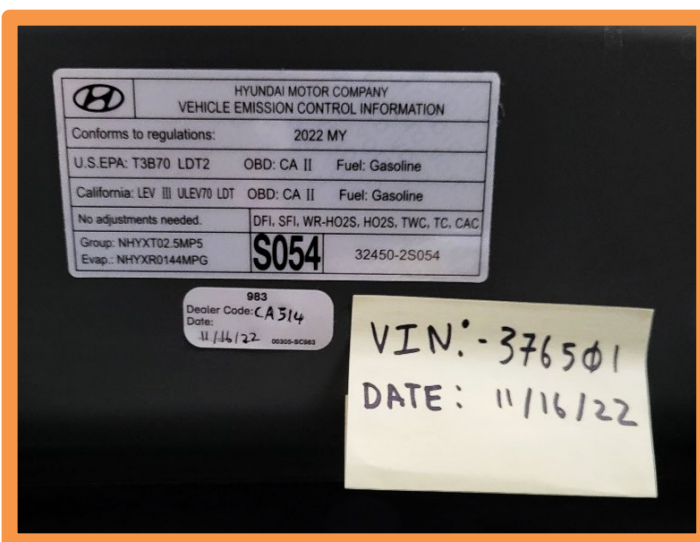
- Be sure to clean the mounting surface to ensure proper label adhesion.

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.



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: "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.

The campaign procedure is now complete.