SUBJECT:	EVAPORATOR TEMPERATURE SENSOR REPLACEMENT AND ECU UPDATE (SERVICE CAMPAIGN T2U)

This TSB supersedes TSB 18-01-010 to provide an updated ROM ID Information Table.

GDS ⊕ **HYUNDAI** *Global Diagnostic System* **ECU Update**

★ **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" screen via WEBDCS to identify open Campaigns.

Description:

This bulletin provides information to replace the A/C Evaporator Temperature Sensor and to update the HVAC ECU on certain 2016-2017 model year Tucson (TL) vehicles.

In WEBDCS, each VIN has been assigned to a specific Op Code to perform one of the appropriate service procedures:
  ➢ Evaporator Temperature Sensor Replacement only
  ➢ Evaporator Temperature Sensor Replacement and ECU update

Follow the Service Procedure outlined in this bulletin to perform the campaign operation as noted in the WEBDCS Vehicle Information Screen.

Applicable Vehicles:
- Certain 2016-2017 TUCSON (TL) vehicles

GDS Information:

Event #	Description
454	**TL A/C PERFORMANCE IMPROVEMENT (DATC)**
455	**TL A/C PERFORMANCE IMPROVEMENT (MTC)**

NOTES:
- HVAC system controller type will determine which GDS ECU Update Event # is applicable.
- Refer to TSB **15-GI-001** for additional tablet-based Mobile GDS ECU update information.
- Clear DTC(s) present after the ECU update.

Parts Information:

Part Name	Part Number	Figure
Evaporator Temperature Sensor	97143-C5000QQH	

Warranty Information:

| Model	Op Code	Operation	Op Time	Causal Part	Nature	Cause
TUCSON (TL)	70C061R0	EVAPORATOR TEMPERATURE SENSOR REPLACEMENT	0.2 M/H	97143-C5000QQH	IB1	ZZ3
	70C061R1	EVAPORATOR TEMPERATURE SENSOR REPLACEMENT + ECU UPGRADE	0.3 M/H			

NOTE: Submit claim on Campaign Claim Entry Screen.

Service Procedure:

1. Access the Evaporator Temperature Sensor by removing the LH console side cover (A).
   - Pull the ends of the cover towards the left side of the vehicle to release the mounting clips (B).
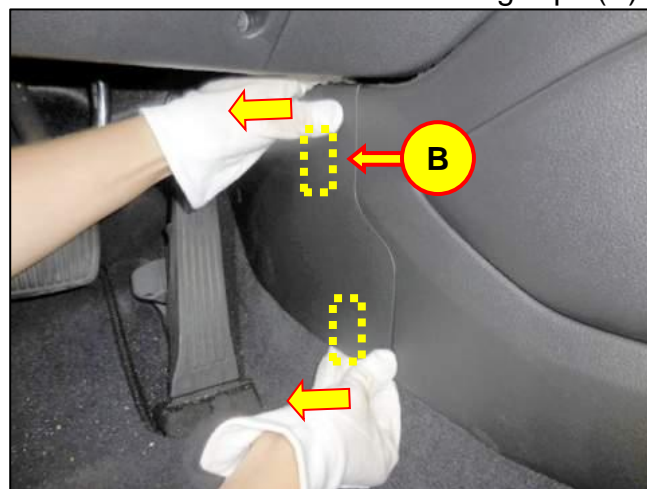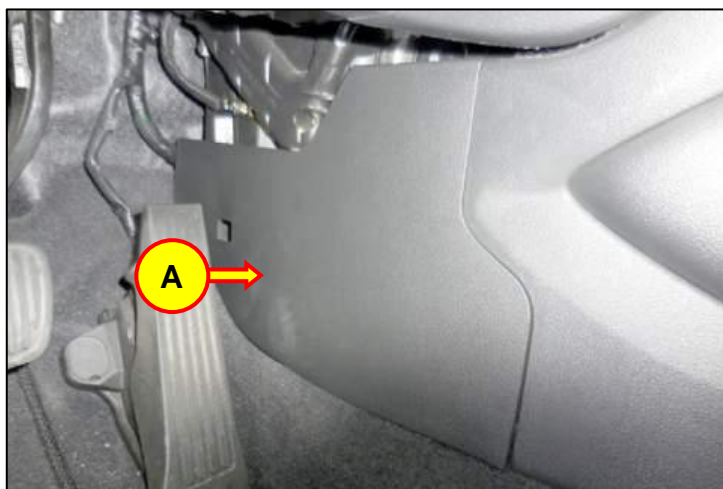
   - Then slide the LH console side cover (A) towards the rear of the vehicle to remove the cover.
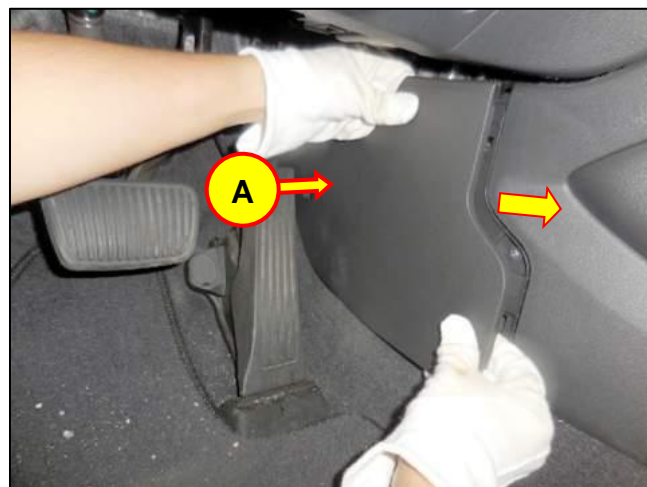
2. Remove and replace the Evaporator Temperature Sensor with a new campaign part.
   - Release the connector lock (C) to disconnect the temperature sensor harness.
   - Rotate the temperature sensor (D) counter-clockwise 90 degrees to remove the sensor.
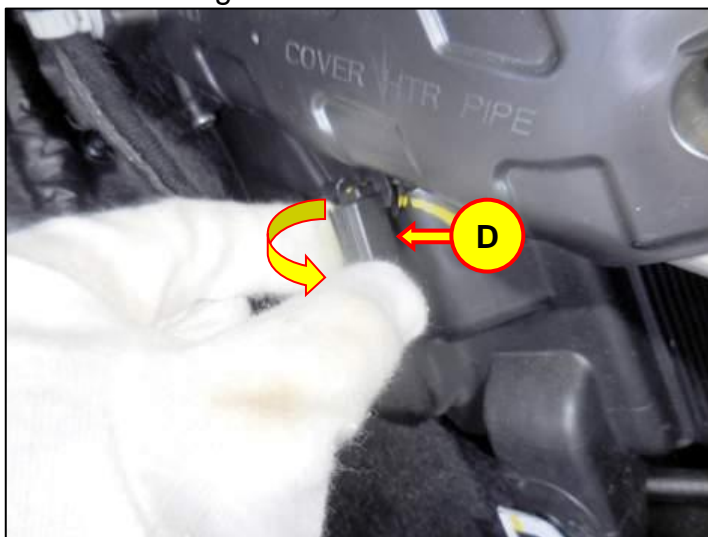
- Install the new Evaporator Temperature Sensor.
- Then reinstall all removed parts in reverse order of removal. **Be sure to reconnect the sensor connector.**

NOTICE

➢ If campaign requires Op Code 70C061R0, then skip to Step 6 to complete the campaign.
➢ If campaign requires Op Code 70C061R1, then proceed to Step 3 for ECU update.

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3. **(Perform only for Op Code 70C061R1)** Connect the GDS to the vehicle and access the HVAC control unit using the "AIRCON" system menu. Follow the next steps to perform the ECU update.
   - Refer to TSB **15-GI-001** for additional tablet-based Mobile GDS ECU update information.
   - Clear any DTC(s) present after the ECU update.

ROM ID Information Table:

Verify the ECU ROM ID before updating the software. Refer to the table below.

MODEL	SYSTEM	CONTROL UNIT P/N	ROM ID	
			OLD	NEW
TUCSON (TL)	DATC (Dual Auto Temperature Control)	97250-D3570 97250-D3571 97250-D3580 97250-D3581 97250-D3590 97250-D3591 97250-D3600 97250-D3601	01 02 03	04
	MTC (Manual Temperature Control)	97250-D3110 97250-D3111 97250-D3130 97250-D3131 97250-D3150	0101 0102 0103 0104 0105 0106	0107

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4. Initially perform the GDS using the Automatic ECU Upgrade procedure.
   - Event "454 TL A/C PERFORMANCE IMPROVEMENT (DATC)"
   - Event "455 TL A/C PERFORMANCE IMPROVEMENT (MTC)"

NOTE: Confirm the correct event number according to the equipped HVAC control system type.
   - DATC = Dual Automatic Temperature Control
   - MTC = Manual Temperature Control

5. If the Automatic ECU Upgrade process fails, then cycle the ignition key to OFF for at least 10 seconds to reset the control unit, then resume programming using the Manual ECU Upgrade process.

MODE PASSWORD INFORMATION TABLE:

MENU (#454 DATC)	PASSWORD
TL **DATC** 97250-D3570/571/580/581/590/591/600/601	3601

(DATC is only for vehicles with Dual Automatic Temperature Control)

MENU (#455 MTC)	PASSWORD
TL **MTC** 97250-D3110/111/130/131/150	3150

(MTC is only for vehicles with Manual Temperature Control)

6. After all campaign work is complete, start the engine to confirm proper operation of the vehicle and HVAC control system.
   - Cycle through the various air intake modes, flow direction modes, set temperatures, and blower motor speeds to verify that the HVAC system is operating correctly.
   - Clear any DTC(s) present if ECU update was performed.