



HYUNDAI

Technical Service Bulletin

GROUP	NUMBER
ENGINE	24-EM-001H
DATE	MODEL(S)
JULY 2024	SONATA (DN8a) SANTA FE (TMa) TUCSON (NX4a)

SUBJECT: DTC P2181 – INTEGRATED THERMAL MANAGEMENT (ITM) REPLACEMENT

Description: Certain 20-22MY Sonata (DN8a), 21-23MY Santa Fe (TMa), and 22-23MY Tucson (NX4a) vehicles may experience a warning lamp illumination for a diagnostic trouble code P2181 that is related to the Integrated Thermal Management Module (ITM). Follow the service procedure outlined in this bulletin to replace the ITM.



Applicable Vehicles:

- 2020-2022MY Sonata (DN8a) equipped with the 2.5L and 2.5T GDI engines produced between 10/22/2019 - 02/24/2022
- 2021-2023MY Santa Fe (TMa) equipped with the 2.5L and 2.5T GDI engines produced between 11/03/2020 - 11/06/2023
- 2022-2023MY Tucson (NX4a) equipped with the 2.5L GDI engine produced between 02/16/2021 - 11/13/2023

Parts Information:

Part Name	Before	After*	QTY
Integrated Thermal Management Module (ITM)	25600-2S000	25600-2S001QQH	1
Water Inlet O-Ring	25462-2S000	25462-2S000	1
Pink Coolant	00232-19098	00232-19098	2

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

Warranty Information:

Model	Op. Code	Operation	Op. Time	Casual Part	Nature Code	Cause Code
Sonata (DN8a) 2.5L	30DA17R0	DTC Inspection + ITM Replacement	1.6 M/H	25600-2S000	I52	ZZ3
Sonata (DN8a) 2.5T	30DA17R1		1.5 M/H			
Santa Fe (TMa) 2.5L	30DA17R2		1.6 M/H			
Santa Fe (TMa) 2.5T	30DA17R4		1.9 M/H			
Tucson (NX4a) 2.5L	30DA17R3		1.7 M/H			

NOTE 1: Submit claim on Claim Entry Screen as “Campaign” type.

NOTE 2: If a part is found in need of replacement while performing this TSB 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 performing the work.

NOTE 3: This TSB includes Repair validation photos. Op times include VIN, Mileage and Repair validation photos as outlined in the Digital Documentation Policy.

NOTE 4: The incident parts are subject to callback through the normal Warranty Technical Center (WTC) parts return process. **Claim is subject to debit if the part is not returned.**

NOTE 5: Dealer will be reimbursed for 2 gallons of pink coolant under each op code.

Service Procedure:

STUI



This TSB includes Repair validation photos. Refer to the latest Digital Documentation Policy for requirements.

1. Confirm with GDS scan tool that DTC P2181 “Cooling System Performance” condition exists.
 - ❖ This TSB only applies if DTC P2181 condition exists.
2. If DTC P2181 is present, replace the existing ITM with the revised ITM (P/N 25600-2S001QQH).
 - **Shop Manual:** Engine Mechanical System > Cooling System > Integrated Thermal Management > Repair Procedures

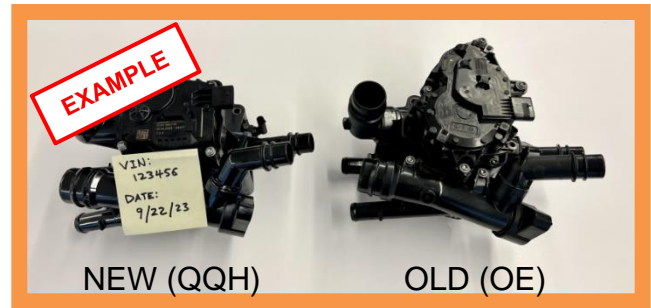
3.

STUI



Before installing the new ITM, take a STUI photo of the QQH part next to the removed old part.

Upload the photo to STUI.



NOTE: Follow the steps below to perform “ITM Coolant Filling Method” with the GDS.

4. Perform an All-Systems Fault Code search and erase the history of the DTC that may have incidentally occurred.
5. Start the vehicle and then perform the ITM Coolant Filling Method to fully air bleed the cooling system using the GDS to enter the “Integrated Thermal Module Coolant Filling Mode”.

