

 HYUNDAI Technical Service Bulletin	GROUP	NUMBER
	BODY ELECTRICAL	24-BE-019H
	DATE	MODEL(S)
	DECEMBER 2024	TUCSON (NX4A)
SUBJECT: ACTIVE AIR FLAP ON-BOARD DIAGNOSTIC SENSORS REPLACEMENT		

Description: Certain 2024MY Tucson (NX4A) vehicles may experience an illuminated check engine light for DTC P059A from a faulty connection due to improper soldering within the sensor components. This bulletin outlines the procedure to replace the active air flap (AAF) on-board diagnostic (OBD) sensors to resolve this issue.

Applicable Vehicles:
• 2024-2025MY Tucson (NX4A) produced from 06/02/2024–10/03/2024 (VINs starting with 5NM)

Parts Information:

Model	Part Name	Part Number	Figure	Remarks
Tucson (NX4A)	AAF Sensor	86970-T1000QQH		Qty: 2

Warranty Information:

Model	Op. Code	Operation	Op. Time	Casual Part	Nature Code	Cause Code
Tucson (NX4A)	40DA19R0	AAF OBD Sensor Replacement	1.0 M/H	86970-T1000	W17	ZZ3

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 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 performing the work.

NOTE 3: This TSB includes Repair validation photos. Op times include VIN, Mileage, and Repair validation photo(s) 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: TSB operation time includes removal and reinstallation of the front bumper cover assembly. It does not include the swapping of parts to a replacement bumper cover, therefore, the LTS of Front Bumper Cover Remove & "Replace" does not apply.

Service Procedure:

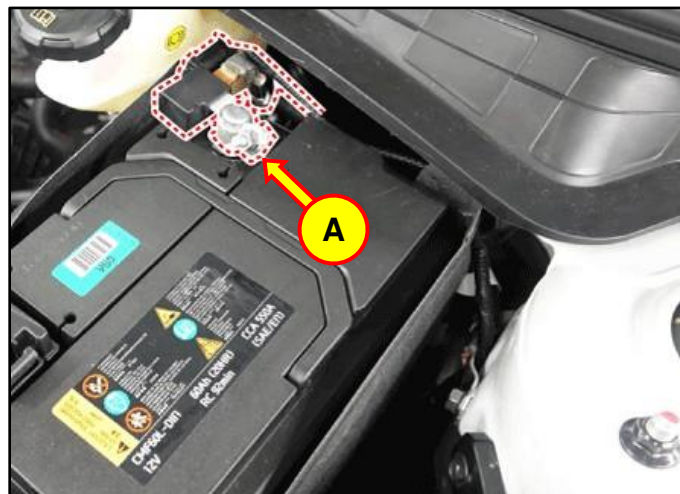
STUI

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

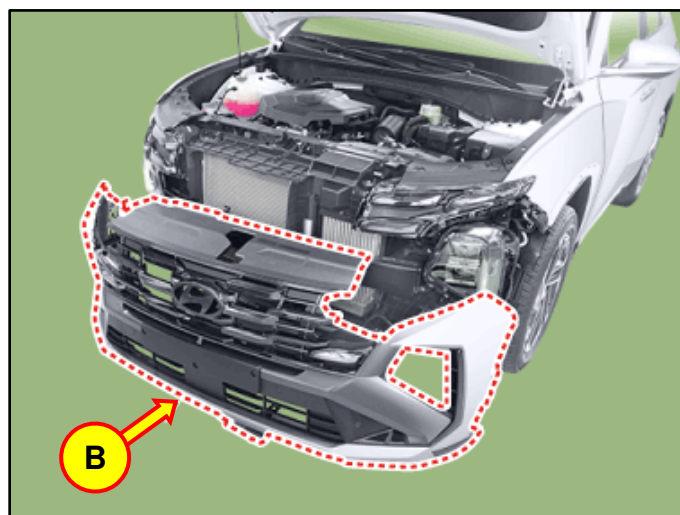
1. Turn **OFF** the ignition and disconnect the negative (-) battery terminal (A).

Tightening Torque:

lb-ft	3.7
lb-in	44
N.m	5



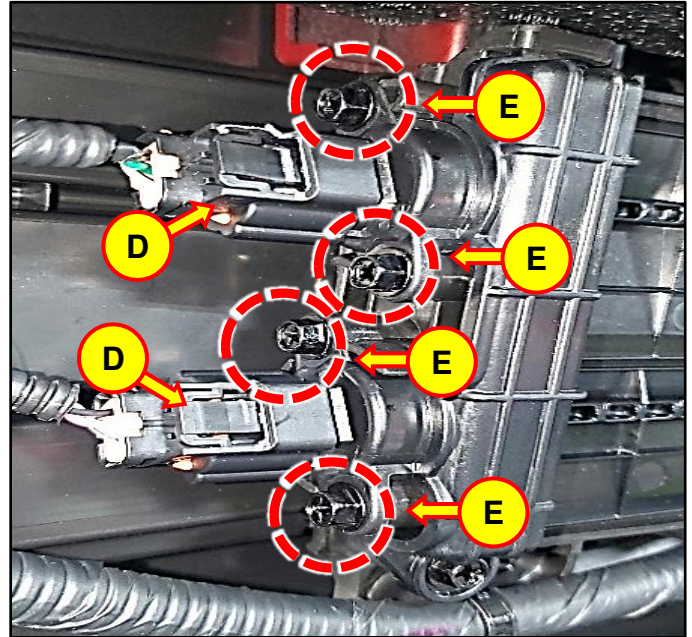
2. Remove the front bumper assembly (B) by referring to the shop manual:
 - 2025 > G 2.5 GDI THETA III > Body (Interior / Exterior / Electrical) > Front & Rear Bumper > Front Bumper Assembly > Removal and Installation



3. Locate 2 AAF sensors (C) on the front bumper.



4. Disconnect both AAF sensor connectors (D) and remove the mounting screws (E). Remove the AAF sensors.



- 5.

STUI

Using STUI, take a photo of the new and old sensors with the last 6 digits of the VIN and the date of repair on a piece of paper.

Upload the photo to STUI.



6. Install the new AAF sensors with mounting screws and reconnect the connectors.
7. Reinstall all components in reverse order.
8. Reconnect the negative (–) battery terminal.
9. Perform an **All Systems Fault Code** search and erase any DTC history that had incidentally occurred.

