HYUNDAI **Technical Service Bulletin**	GROUP **CAMPAIGN**	NUMBER **24-01-010H**
	DATE **JANUARY 2024**	MODEL(S) **TUCSON (NX4)**

SUBJECT: INTEGRATED THERMAL MANAGEMENT (ITM) MODULE OIL COOLER O-RING INSPECTION/REPLACEMENT (SERVICE CAMPAIGN TBA)

★ 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 any maintenance or repair.

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

Description: Certain 2024MY Tucson (NX4) vehicles may produce a coolant leak from the Integrated Thermal Management (ITM) Module Oil Cooler Fitting O-Ring. Follow the procedure outlined in this TSB to inspect and, if necessary, replace the O-Ring at the Oil Cooler Fitting.

Applicable Vehicles (Certain):

- 2024MY Tucson (NX4) vehicles produced from 9/19/2023 to 10/09/2023.

Parts Information:

Part Name	Part Number	Figure	Remarks
ITM Oil Cooler O-Ring Kit	25699-2S690QQH		(A) Oil Cooler Fitting Pipe O-Ring – Qty 1
			(B) Water Inlet O-Ring – Qty 1
			(C) ITM Rubber Gasket – Qty 1
Pink Coolant	00232-19098		Approximately ¼ gallon of Coolant will be used due to loss of coolant during ITM removal.

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

SST Information:

Tool Name	Part Number	Figure	Remarks
GIT Borescope	G0DKDNN039		This is an essential tool that has already been shipped to dealers. If dealer has broken or missing components or need a replacement borescope, please contact GIT America at (888) - 437- 0308.

Warranty Information:

Model	Op. Code	Operation	Op. Time	Casual Part	Nature Code	Cause Code
Tucson (NX4)	30D142R4	ITM LOT Inspection	0.3 M/H	25699-2S690QQH	B33	ZZ7
	30D142R5	ITM LOT Inspection and Oil Cooler Fitting O-Ring Replacement	1.5 M/H	25699-2S690QQH		

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 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: One (1) gallon of coolant will be reimbursed under labor OP code 30D142R5.

Service Procedure:

STUI

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

1. Connect the VCI-II into the vehicle's DLC connector under the driver side instrument panel and connect to the VCI-II on STUI to take pictures using the borescope (A).

   Before starting the procedure, make certain that the battery of the Tablet and the borescope are sufficiently charged.

P/N: G0DKDNN039

Information

Review the "STUI Borescope Guide" on hyundaitechinfo.com for connection instructions.

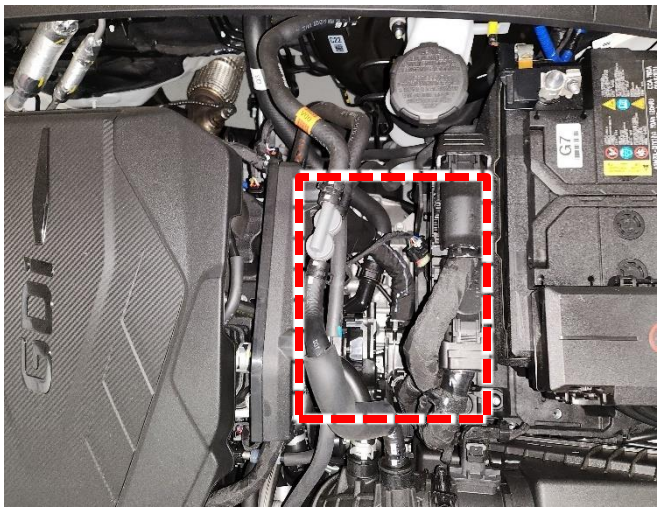
Diagnostic Tools > GDS and STUI Tips > No. 714 STUI Borescope Guide

Information

For technical assistance or replacement parts, contact GIT America at (888) 437-0308.

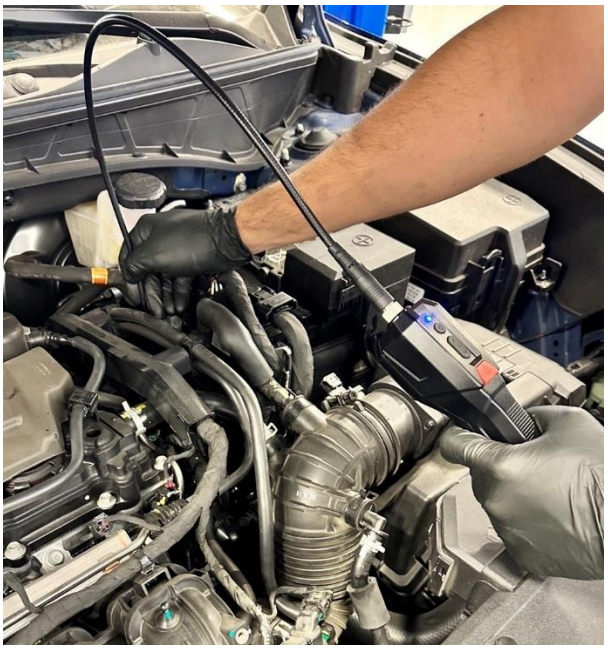
I. LOT INSPECTION PROCEDURE:

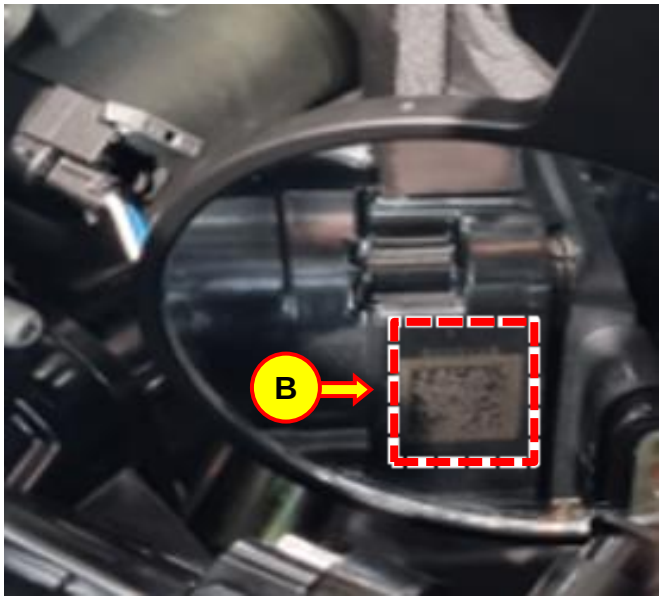
2. Open the hood and remove the engine cover.



> **Information**
>
> Area to be inspected is indicated by the red square in the photo at right.

3. Using the Borescope camera, locate the label with the LOT number located on the side of the ITM (B).





> **Information**
>
> The LOT Code is located behind the ITM Connector.
>
> Use the 90-degree camera lens on the borescope for best view of the LOT Code.

4.

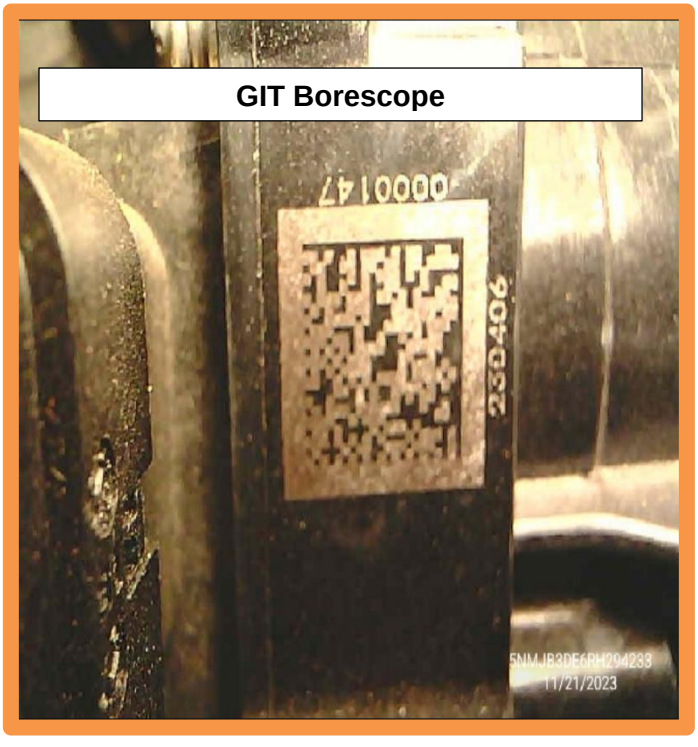
STUI

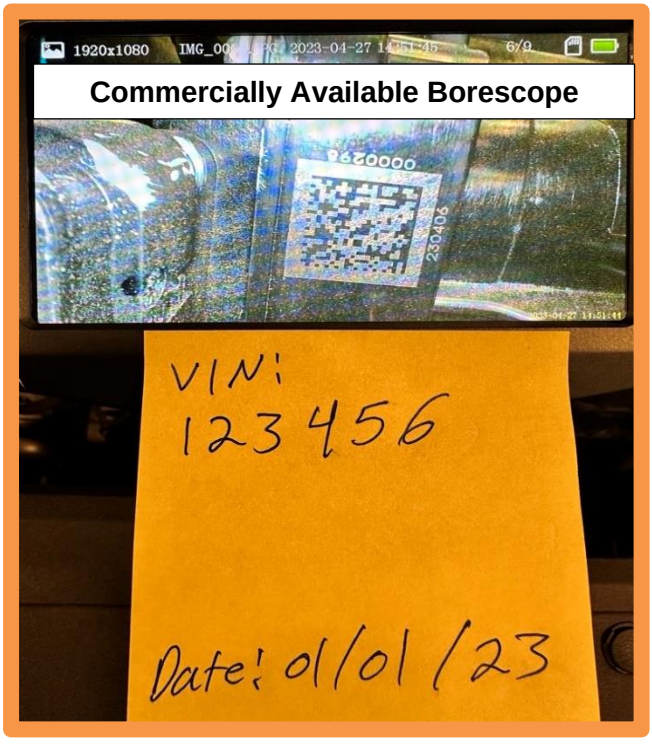
Take a photo of the LOT code, clearly indicating the LOT number.

If the preferred GIT Borescope is used, a piece of paper indicating the last 6 digits of the VIN and date of repair is not necessary.

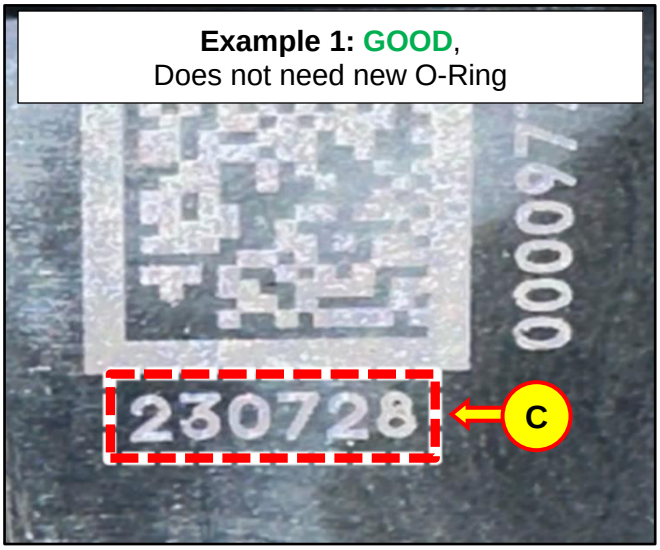
If the preferred GIT Borescope is NOT used, please include a piece of paper indicating the last 6 digits of the VIN and date of repair on a piece of paper.

Upload the photo to STUI.





5. Closely inspect the LOT number (C).

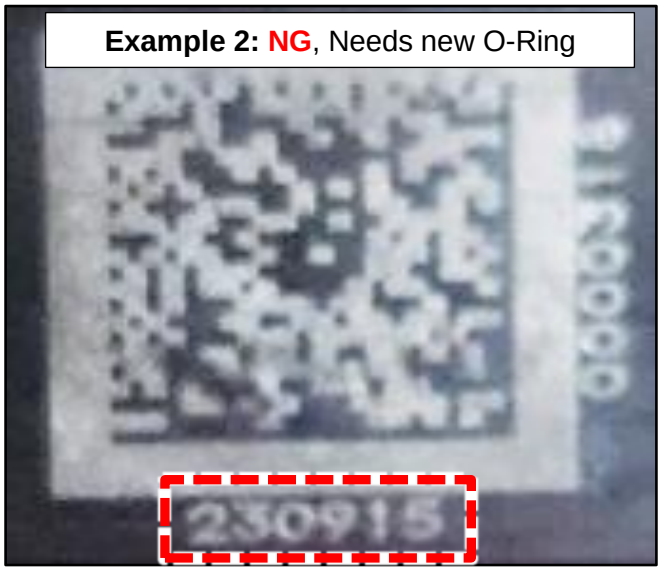


- If the LOT number is any of the following:

230911	230912	230913
230914	230915	230916
230917	230918	230919
230920	230921	230922
230923	230924	230925

  Then replace the O-Ring with a new one. Continue to the **"O-Ring Replacement Procedure"**.

- For all other LOT numbers, replacement is not necessary. **Inspection is complete**.

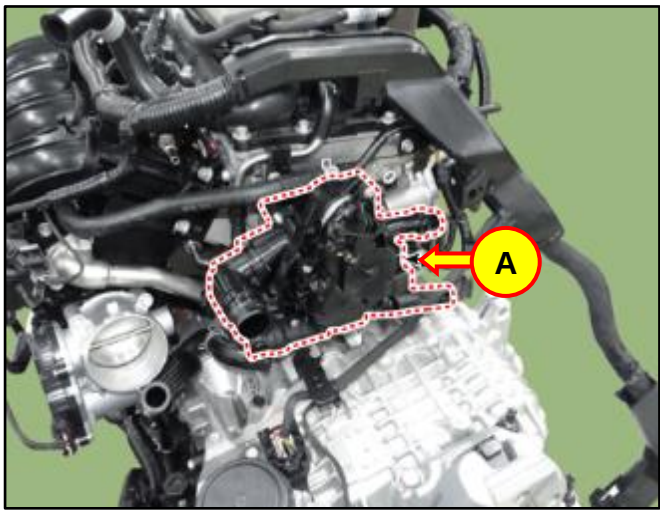


Lot # 230915 Details		
Year	Month	Day
23	09	15

II. O-RING REPLACEMENT PROCEDURE:

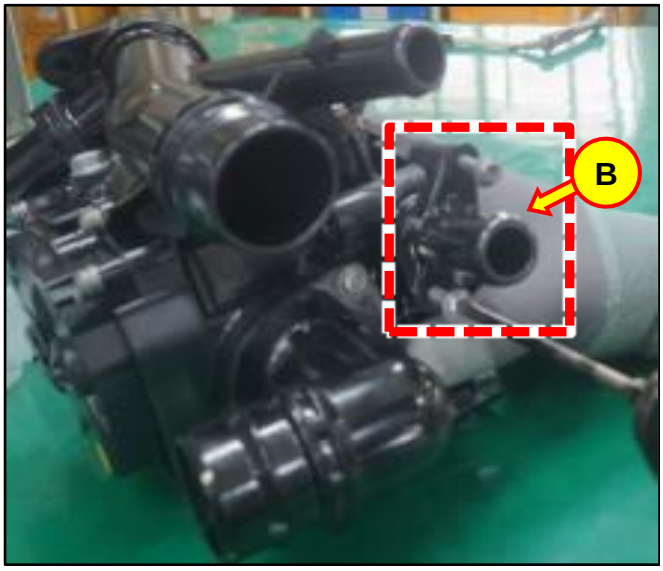
1. Remove the Integrated Thermal Management (ITM) Module (A).

   Refer to Shop Manual:
   - **Engine Mechanical System > Cooling System > Integrated Thermal Management Module (ITM) > Repair Procedures**



> ***i*** **Information**
>
> Drain the coolant into a clean container that is not contaminated. The coolant will be reused later.

2. Remove the Oil Cooler Fitting and the **OLD** O-Ring (B).



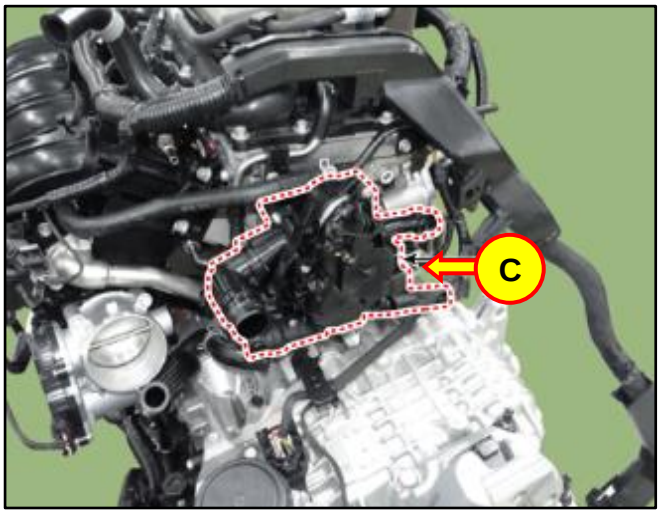
3. Before installing the **NEW** O-Ring, apply a light film of coolant to lubricate the O-Ring.

4. Install the new O-Ring onto the Oil Cooler Fitting and reinstall the Oil Cooler Fitting onto the ITM.

Tightening Torque:

lb-ft	3.0
lb-in	24.0
N.m	4.0

5. Reinstall the Integrated Thermal Management (ITM) Module (C). Be sure to replace the Water Inlet O-Ring and Rubber ITM Gasket in the supplied kit.



Refer to Shop Manual:

- **Engine Mechanical System > Cooling System > Integrated Thermal Management Module (ITM) > Repair procedures**

Tightening Torque:

lb-ft	8.0
lb-in	95
N.m	10.8

NOTICE

When re-connecting the ITM connectors, make sure any coolant or foreign objects are completely removed.

6. Install remaining components in reverse order of removal.

7. Fill the engine coolant with the previously drained coolant, adding new coolant as necessary.

   Refer to Shop Manual:
   - **Engine Mechanical System > Cooling System > Coolant > Repair procedures**

8. Start the engine and check for leaks.

NOTICE

Be sure to follow the ITM Coolant Filling Mode procedure. Failure to do so may result in air pockets and overheating of the engine.

9. Adjust coolant level as necessary up to the **FULL** line.

10. Service procedure is now completed.