



## Technical Service Bulletin

GROUP

HVAC

NUMBER

24-HA-003H

DATE

DECEMBER 2024

MODEL(S)

PALISADE (LX2)

**SUBJECT:** A/C COMPRESSOR PULLEY INSPECTION & REPLACEMENT GUIDELINES

This TSB supersedes TSB 21-HA-003H to expand the vehicle production date range and update information for ordering additional special service tool (SST) units.

**Description:** Some 2020-2022MY Palisade (LX2) vehicles may experience reduced A/C performance due to an out of specification A/C compressor pulley and hub assembly. Follow the procedure outlined in this bulletin to inspect and determine whether to replace the compressor assembly or only the pulley using the service kit.



### Information

This TSB provides special inspection guidelines to supplement the shop manual.


### Applicable Vehicles:

- 2020–2022MY Palisade (LX2) vehicles produced from 4/10/2019 to 6/29/2021

### Parts Information:

Model	Part Name	Part Number	Remarks (Includes QTY 1 of each below)
Palisade (LX2)	Compressor Pulley Service Kit	97640-S8500FFF	Disc & Hub Assembly: 97644-S8000
			Pulley: 97643-S8500
			Clutch Magnetic Coil: 97641-S8500
			Snap Ring: 97645-1G000
			Snap Ring: 97648-1J000
			Clutch Bolt: 97647-1J000

### SST Information:

Tool Name	Tool #	Figure	Remarks
Clutch Bolt Remover	09977-3R000		This is an essential tool that was previously shipped to all active dealers. Additional units can be ordered through <a href="https://hyundaiaessentialtools.com/">https://hyundaiaessentialtools.com/</a>

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	Causal Part	Nature Code	Cause Code
Palisade (LX2)	97640F01	Compressor Pulley Inspection + Replacement	0.9 M/H	97644-S8000	I11	ZZ3
	97640F02	Compressor Pulley Inspection + Compressor Replacement + Refrigerant Recovery/Replenishment	1.6 M/H			

**NOTE 1:** Normal warranty applies.

**NOTE 2:** Submit claim on Claim Entry Screen as "Warranty" type.

**NOTE 3:** Take a picture of the warrantable defect. 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 (bold last sentence).

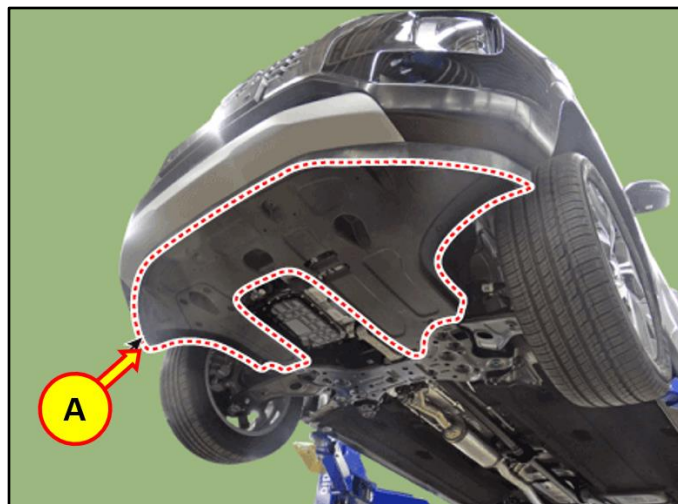
**NOTE 5:** If a part is found in need of replacement while performing this TSB and the affected part is still under warranty, submit a separate claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

**Service Procedure:**

1. Raise the vehicle on a lift and remove the engine compartment undercover (A) by removing the fasteners and bolts.

**Tightening Torque:**

lb-ft	7.3
lb-in	87
N.m	9.8

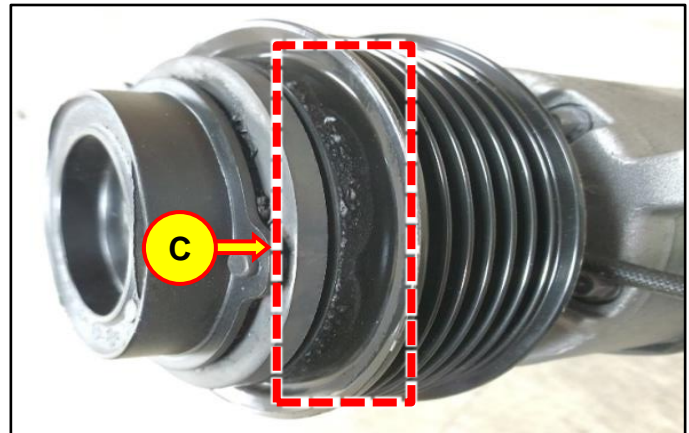
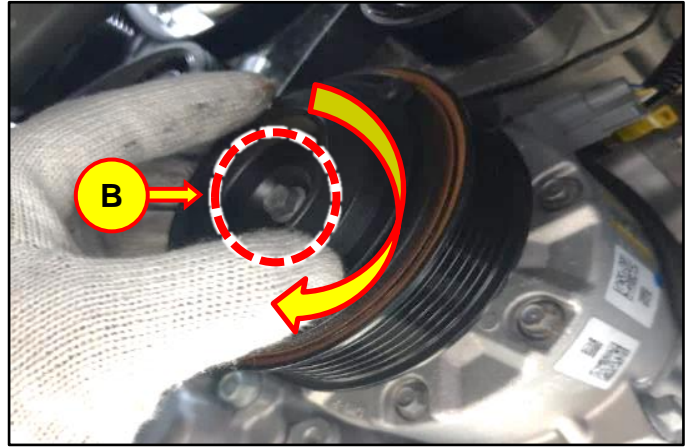


2. Rotate the disc and hub assembly (B) to check for bearing movement drag.

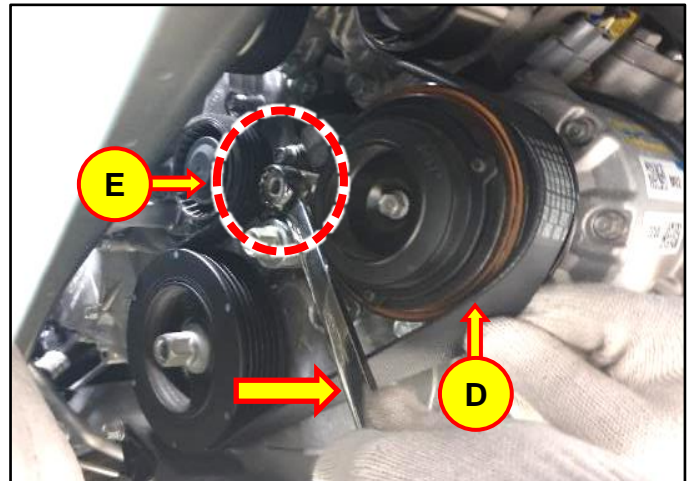
- If the center hub (B) **CANNOT** be rotated or there is excessive internal drag, replace the A/C compressor following the shop manual.
- If the center hub (B) can be rotated or there is pulley degradation (C), then follow the steps in this bulletin to install the service kit.

Refer to the shop manual for complete service procedure:

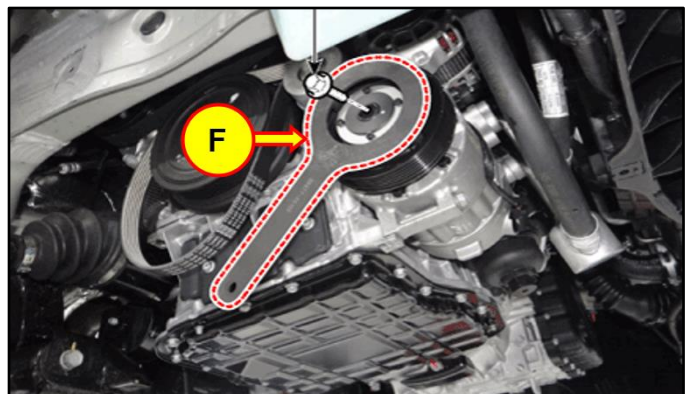
- **Heating, Ventilation And Air Conditioning > Air Conditioning System > Compressor > Repair procedures**



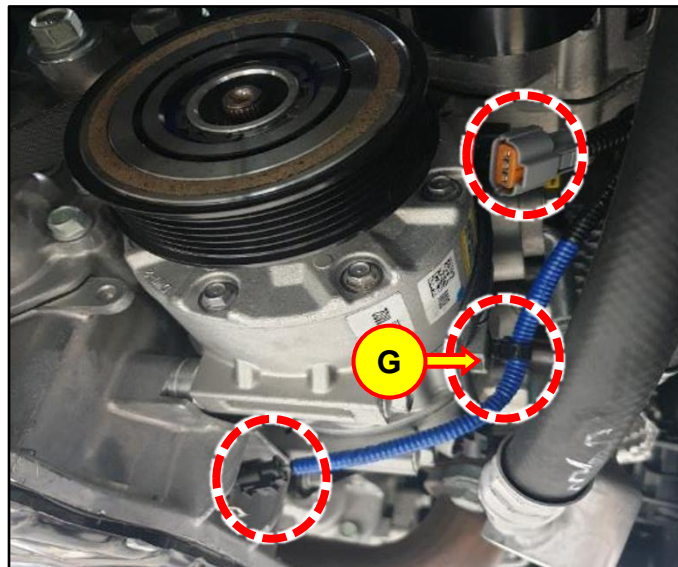
3. Remove the drive belt (D) by turning the auto tensioner pulley counterclockwise to release the belt tensioner (E).



4. Remove the disc and hub assembly (F) using SST 09977-3R000.



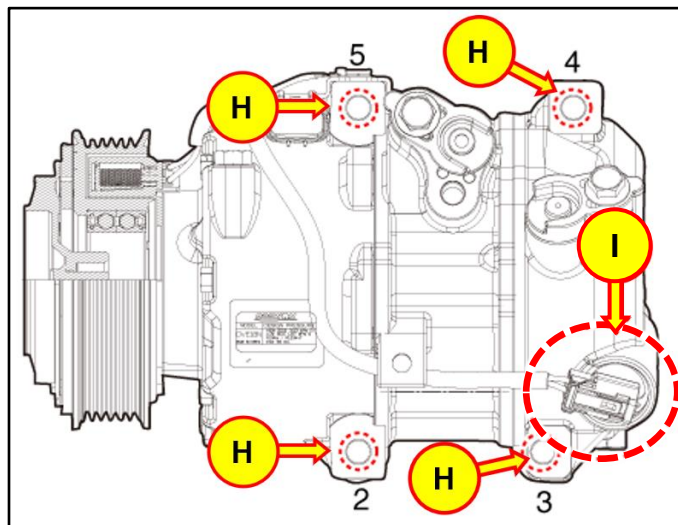
5. Disconnect the connector and harness (G) from the compressor.



6. Remove the compressor assembly mounting bolts (H) and disconnect the clutch magnetic coil connector (I).

**Tightening Torque:**

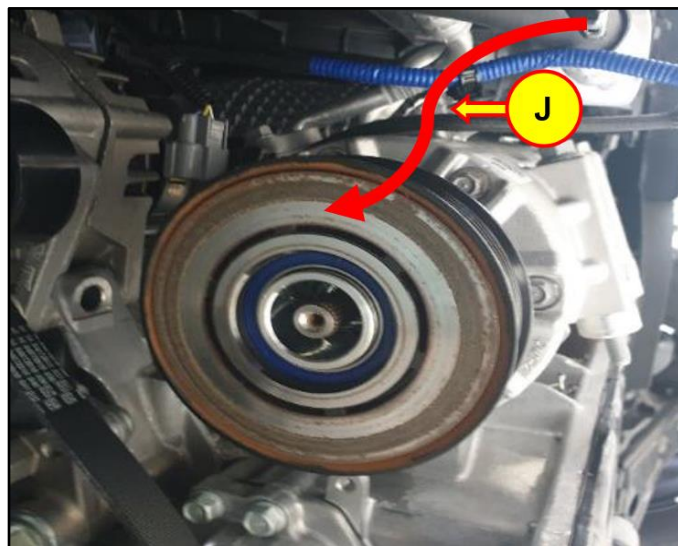
lb-ft	20
N.m	27



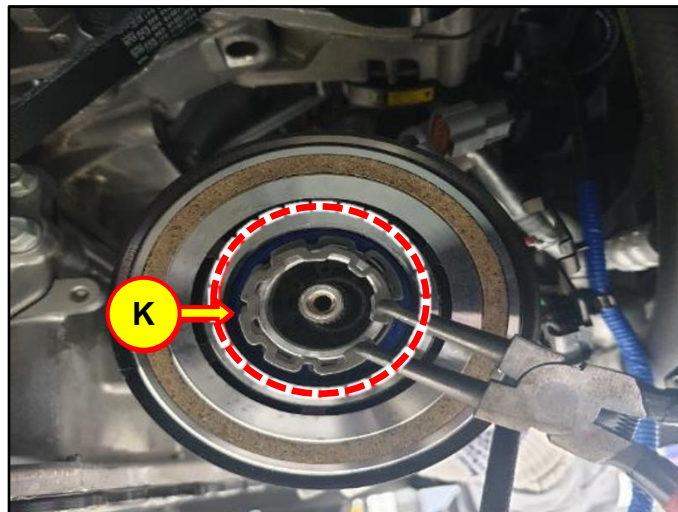
7. Partially remove the compressor (J) and position it diagonally to secure a larger working space.

***i* Information**

Support the compressor side edge by using a jack.



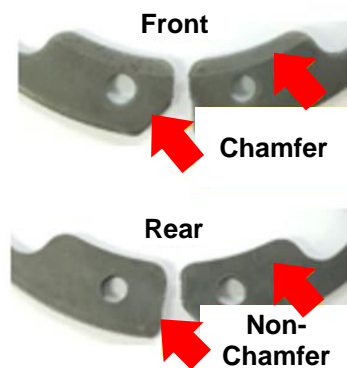
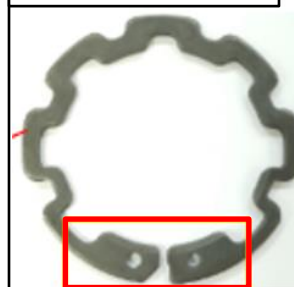
8. Remove the snap ring (K).



**i Information**

- Install the new snap ring so the chamfered edges face outward as shown.
- Reuse the clutch hub washer plate.

**Snap Ring (Rotor)**



**Washer Plate**



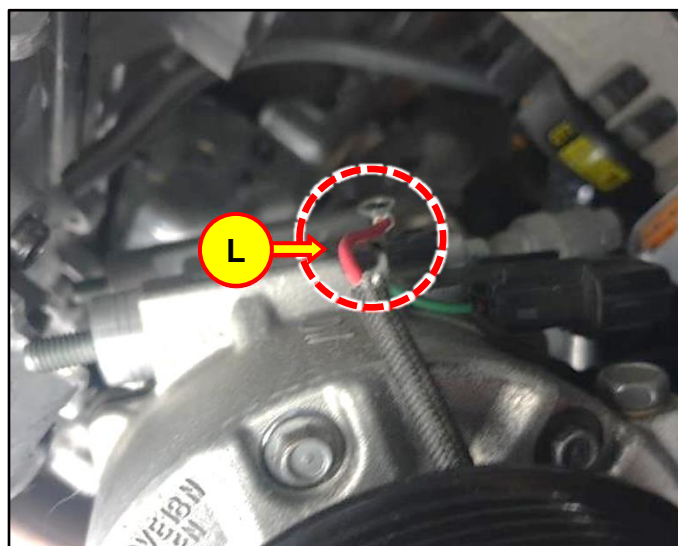
9. Remove the ground mounting screw (L).

**i Information**

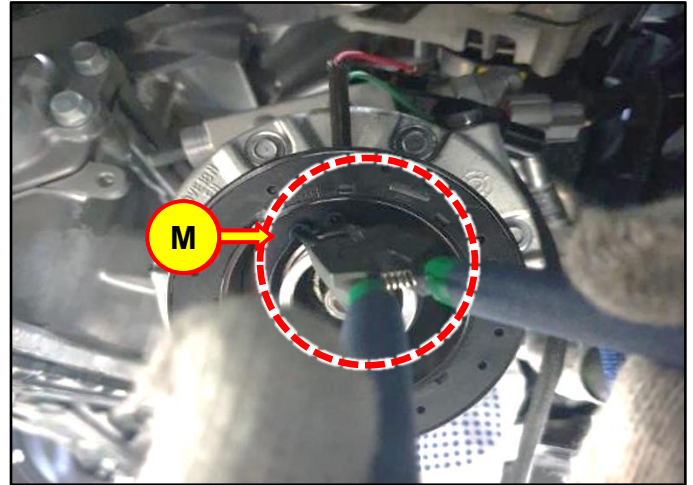
This screw will be reused during reassembly. Do **NOT** discard.

**Tightening Torque:**

lb-ft	4.4
lb-in	52
N.m	5.9

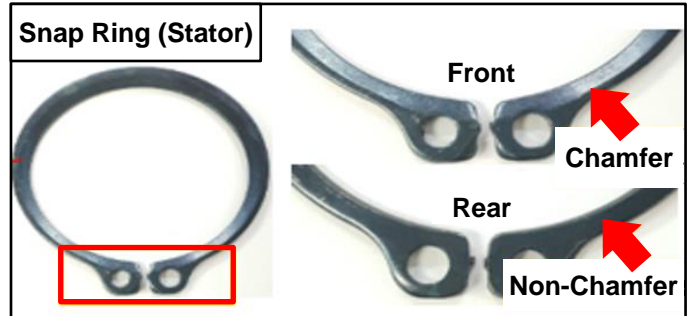


10. Remove the snap ring (M) fixing the clutch magnetic coil.

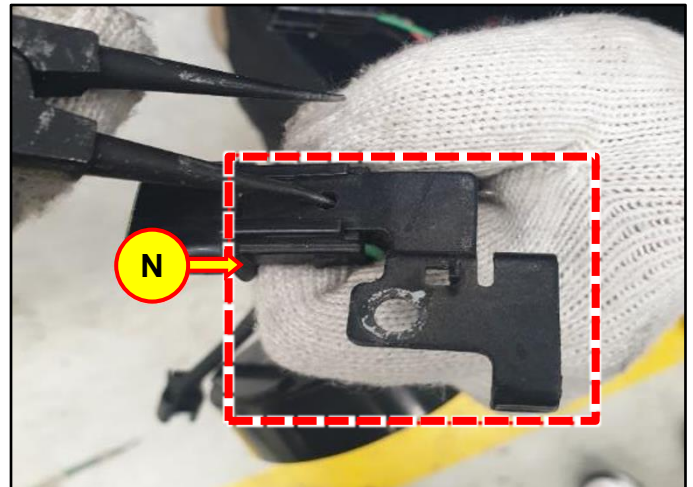


**i Information**

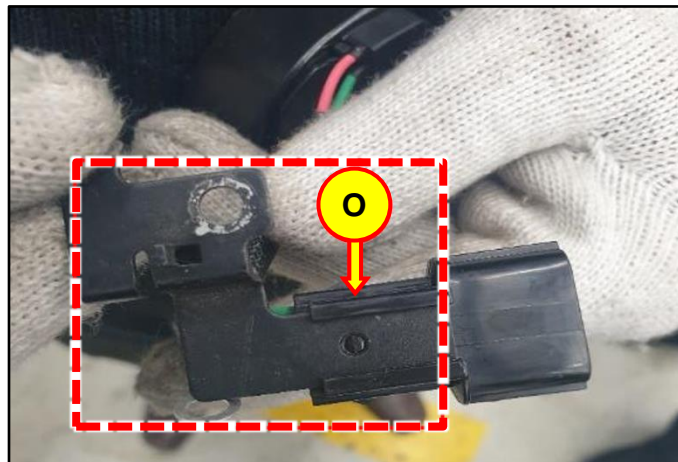
Install the new snap ring so the chamfered edges face outward as shown.



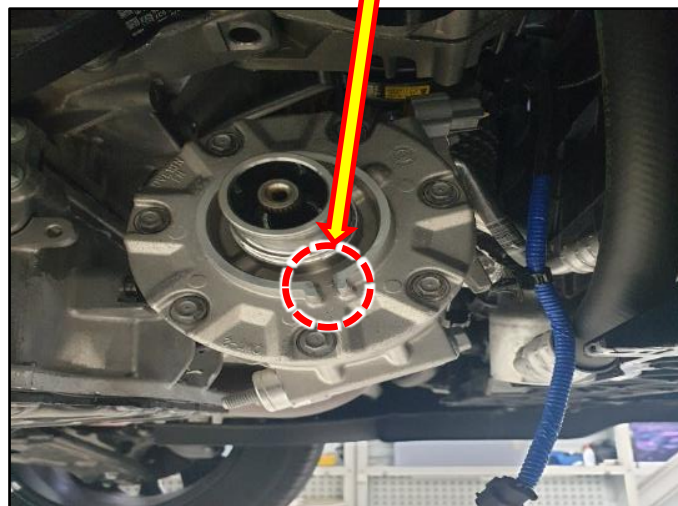
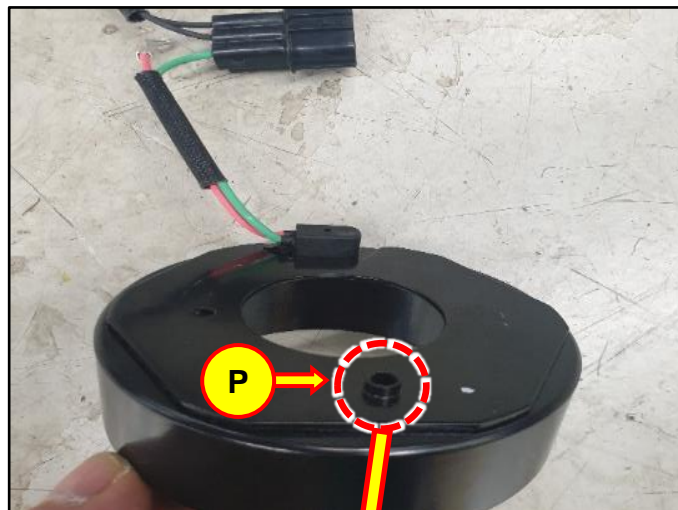
11. Remove the bracket (N) from the removed clutch magnetic coil.



12. Assemble the removed bracket (O) onto the new clutch magnetic coil assembly.



13. Assemble the new clutch magnetic coil (P) into the compressor groove.



14. Reinstall parts in reverse order of removal.
15. The service procedure is now complete.