

 <b>HYUNDAI</b> <b>Technical Service Bulletin</b>	GROUP <b>HVAC</b>	NUMBER <b>21-HA-003H</b>
	DATE <b>September, 2021</b>	MODEL(S) <b>Palisade (LX2)</b>
<b>SUBJECT:</b>	A/C COMPRESSOR PULLEY INSPECTION AND REPLACEMENT GUIDELINES	

**Description:** Certain 2020-2021MY 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.

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


**Applicable Vehicles:**

Certain 2020-2021MY Palisade (LX2) vehicles produced from 10/1/2019 to 11/30/2020

**Compressor Pulley Service Kit Information:**

PART NAME	PART NUMBER	NOTES
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

**Special Service Tool Information:**

DESCRIPTION	PART NUMBER	FIGURE	NOTE
Clutch Bolt Remover	09977-3R000		This is an essential tool that was previously shipped to all active dealers. Additional units can be ordered through Bosch at 1-866-539-4248.

**Warranty Information:**

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
Palisade (LX2)	97640F01	COMPRESSOR PULLEY INSPECTION + REPLACEMENT	0.9	97644-S8000	I11	ZZ3
	97640F02	COMPRESSOR PULLEY INSPECTION + COMPRESSOR REPLACEMENT + REFRIGERANT RECOVERY/REPLENISHMENT (R-1234YF)	1.6			

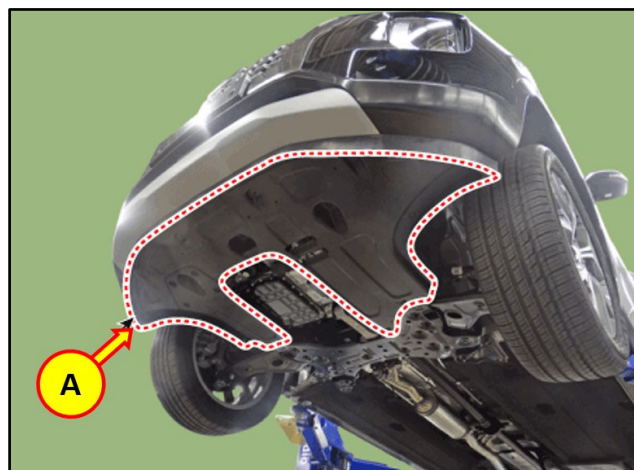
**NOTE:** Normal Warranty Applies.

**Service Procedure:**

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

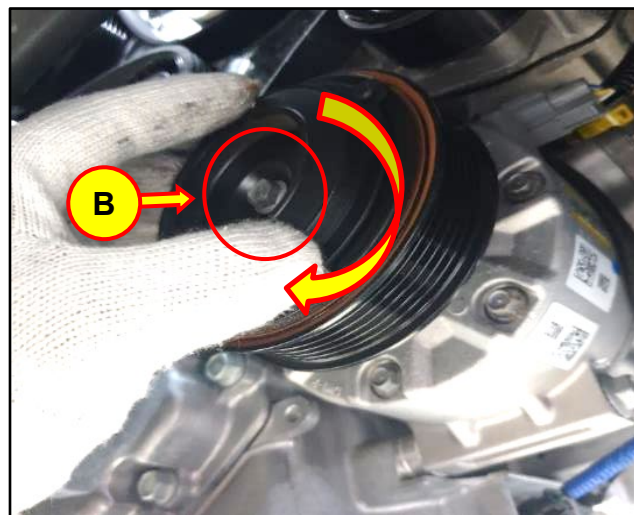
**NOTICE**

**Tightening Torque:**  
7.25 lb-ft (9.8 Nm)



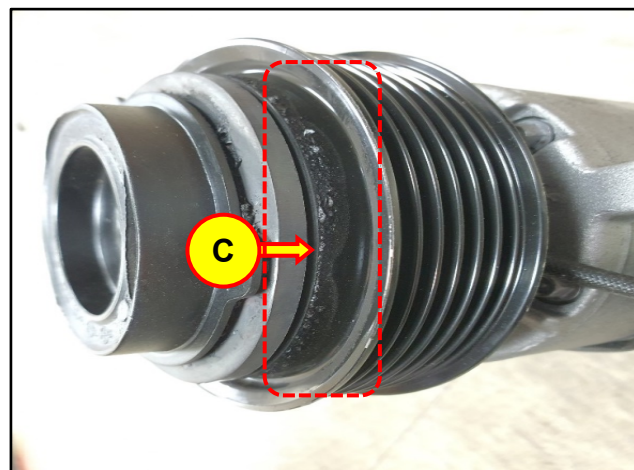
2. Rotate the disk & hub assembly (B) to check for bearing movement drag.

- 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), follow the service procedure steps to install the service kit.

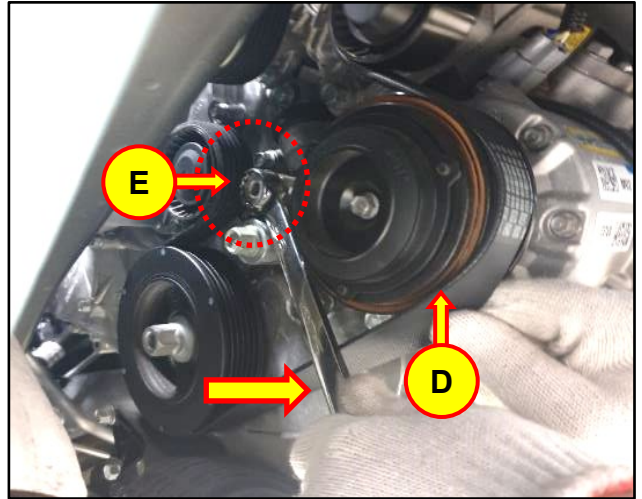


Refer to the shop manual for complete service procedure:

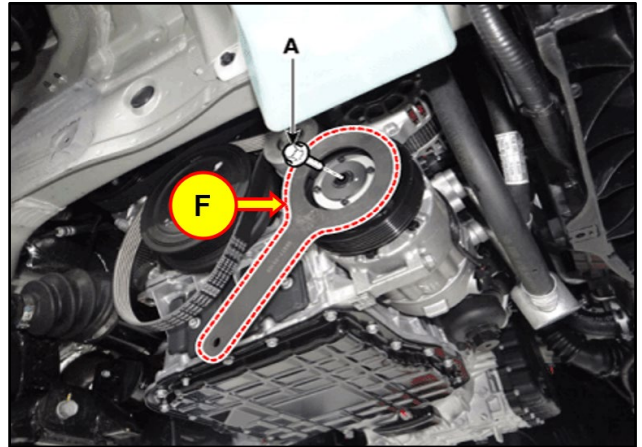
**Heating, Ventilation And Air Conditioning >  
Air Conditioning System > Compressor**



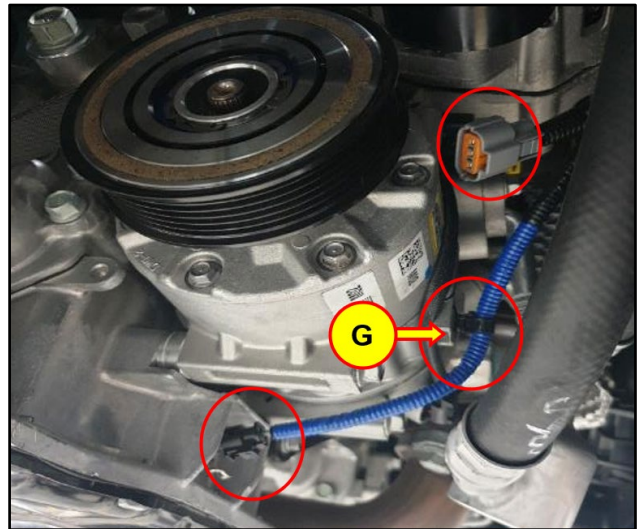
3. Remove the drive belt (D) by turning the auto tensioner pulley counterclockwise to release the belt tensioner (E).



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



5. Disconnect the connector (G).

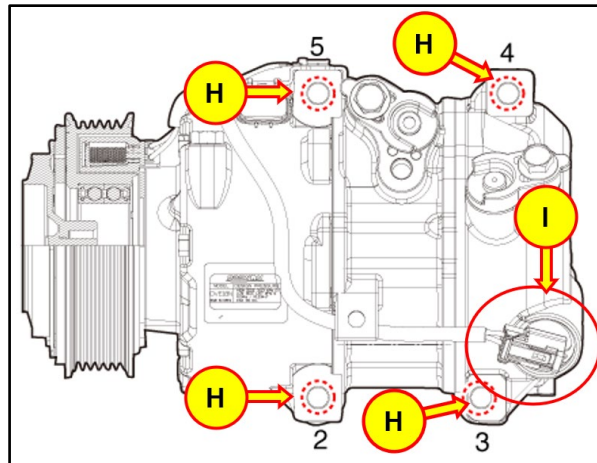




6. Remove the compressor assembly mounting bolts (H) and disconnect the clutch magnetic coil connector (I).

**NOTICE**

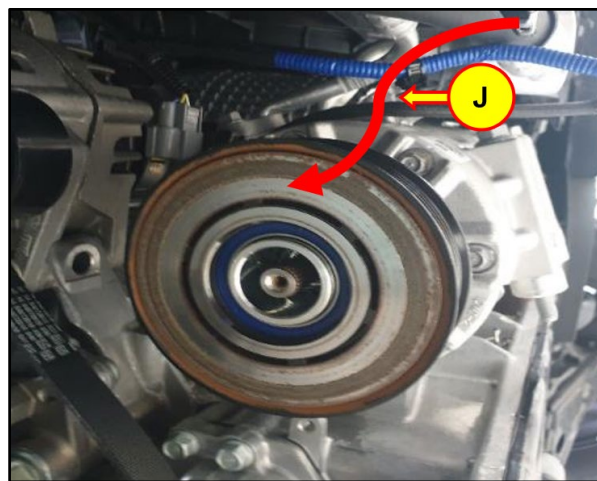
**Tightening Torque:**  
19.55 lb-ft (26.5 Nm)



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

**NOTICE**

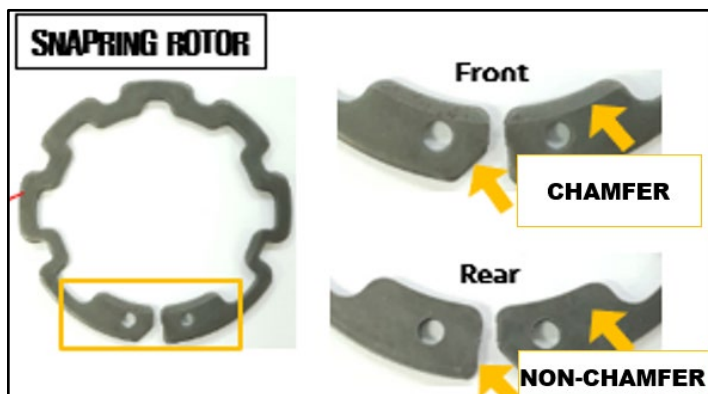
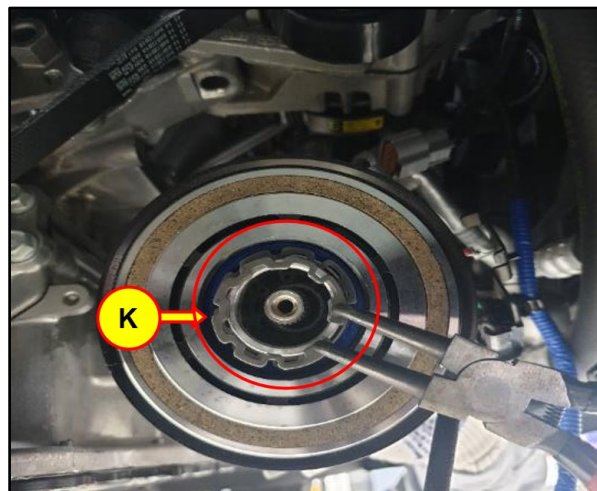
Support the compressor side edge by using a jack.



8. Remove the snap ring (K).

**NOTICE**

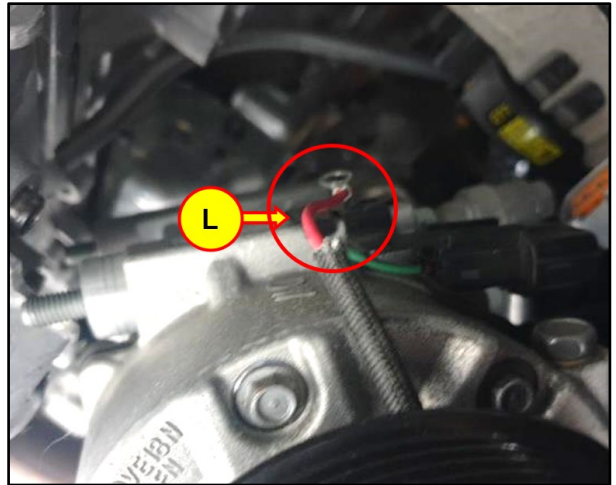
- Install the new snap ring so the chamfered edges face outward as shown.
- Reuse the clutch hub washer plate.



9. Remove the ground mounting screw (L). This screw will be reused during reassembly.

**NOTICE**

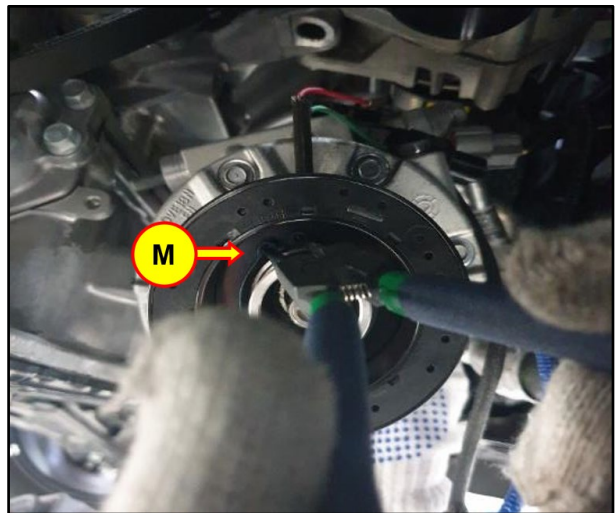
**Tightening Torque:**  
4.35 lb-ft (5.9 Nm)



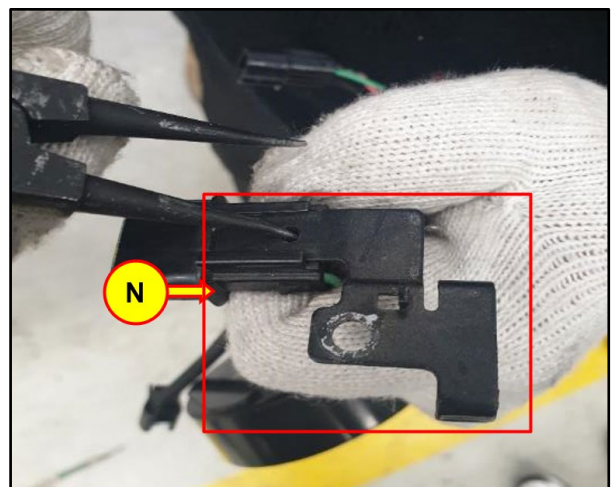
10. Remove the snap ring (M) fixing the clutch magnetic coil.

**NOTICE**

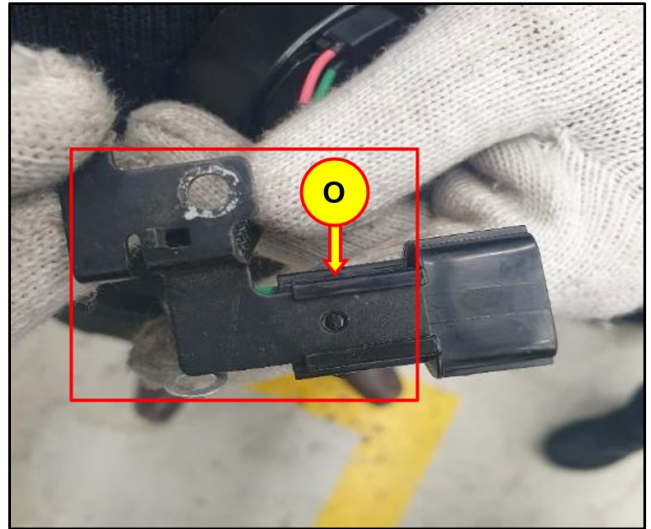
Install the new snap ring so the chamfered edges face outward as shown.



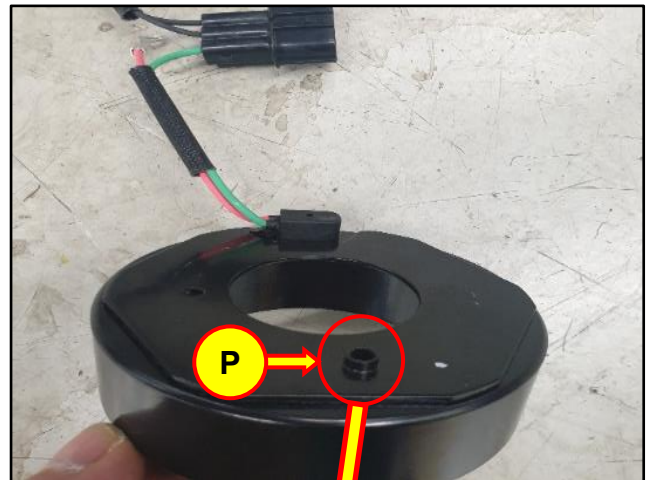
11. Remove the bracket (N) from the removed clutch magnetic coil.



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.