



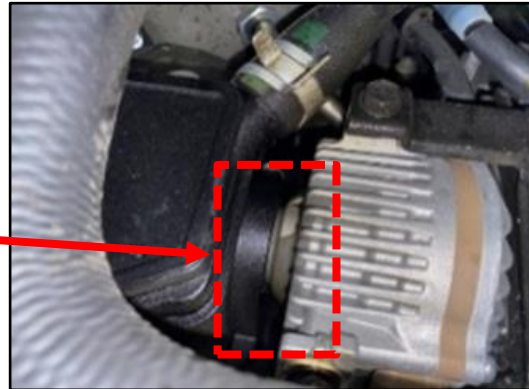
GROUP	MODEL
ENG	2021-2022MY Sorento P/HEV (MQ4 P/HEV)
NUMBER	DATE
256	July 2025

TECHNICAL SERVICE BULLETIN

CONTINUOUS VARIABLE VALVE DURATION (CVVD) ACTUATOR OIL SEAL REPLACEMENT

SUBJECT:

This bulletin provides information to replace the Continuous Variable Valve Duration (CVVD) Actuator seal on some 2021-2022MY Sorento P/HEV (MQ4 P/HEV) vehicles produced from September 02, 2020, through February 24, 2022. The affected vehicles may experience a slow oil leak coming from the CVVD actuator oil seal and potentially associated oil smell due to the oil seal material degrading over time. To correct this, follow the procedure outlined in this publication to replace the CVVD actuator oil seal with an improved part on the applicable vehicle.



NOTICE

A Technical Service Bulletin is a field fix repair program without customer notification that may be performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.

A printed copy is for reference only; publication information can be updated at any time. Always refer to KGIS for the latest information. After logging in kdealer.com, the newest technical publications are listed in 'Service Releases' and has the latest service information that has been released.

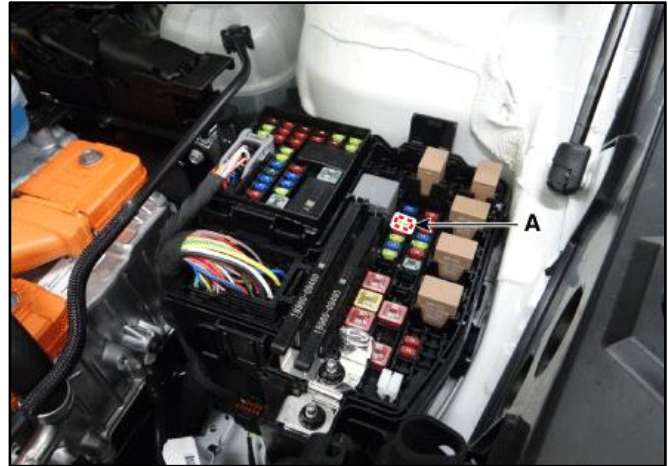
CONTINUOUS VARIABLE VALVE DURATION (CVVD) ACTUATOR OIL SEAL REPLACEMENT

SUBJECT:

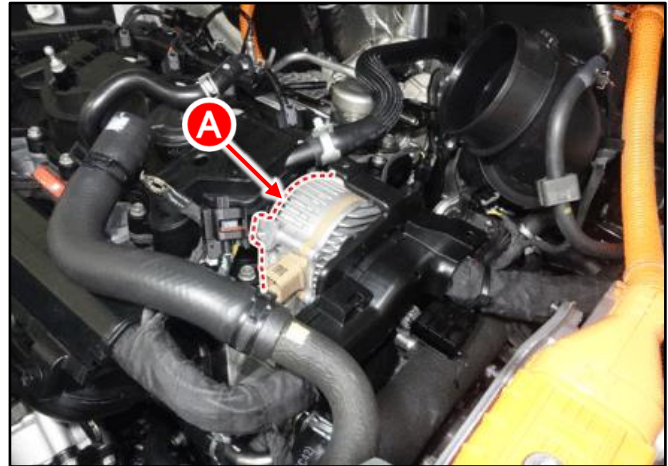
Repair Procedure:

1. Disconnect the 12V negative (-) battery terminal.

2. Release the residual pressure in the fuel line by referring to "Engine Control / Fuel System → Fuel Delivery System → Release Residual Pressure in Fuel Line" in the applicable Shop Manual on KGIS.



3. **Remove** the Continuous Variable Valve Duration Actuator (A) by referring to "Engine Control / Fuel System → CVVD Actuator → Repair procedures" in the applicable Shop Manual on KGIS.



Tightening torque for CVVD Bolts (F - H):
13.8 - 18.1 lb.ft (19.0 - 24.5 N.m)

4. Using a flathead screwdriver or a seal puller, remove the CVVD oil seal (B) from the cylinder head cover (C).

⚠ CAUTION

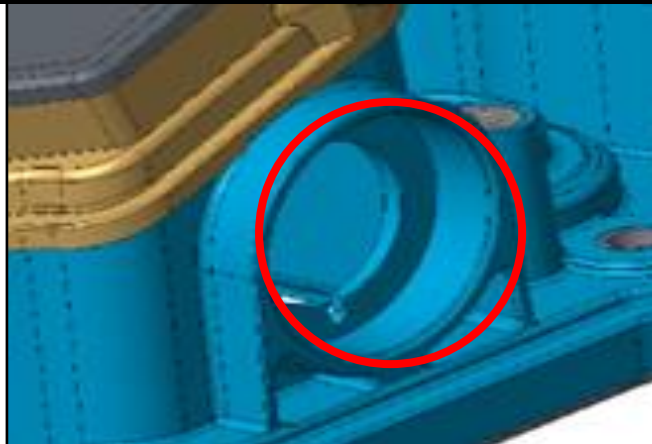
DO NOT scratch or damage the inside of the seal mounting area on the cylinder head cover (C).



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CONTINUOUS VARIABLE VALVE DURATION (CVVD) ACTUATOR OIL SEAL REPLACEMENT

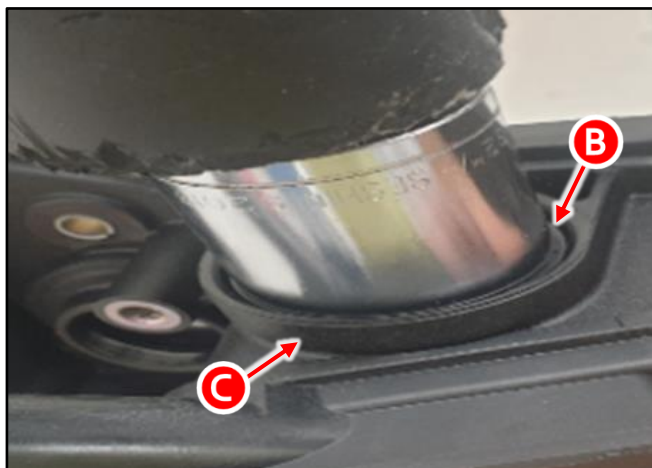
6. Thoroughly clean the seal mounting area using a clean cloth.



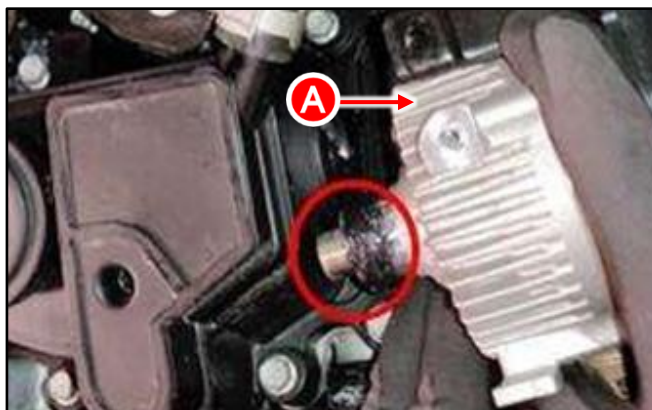
7. Install the new seal (B) on the engine cylinder head cover (C).

ⓘ IMPORTANT

When installing, ensure that the new seal (B) is seated properly. If the seal is not seated deep enough or too deep, it can cause oil to leak.



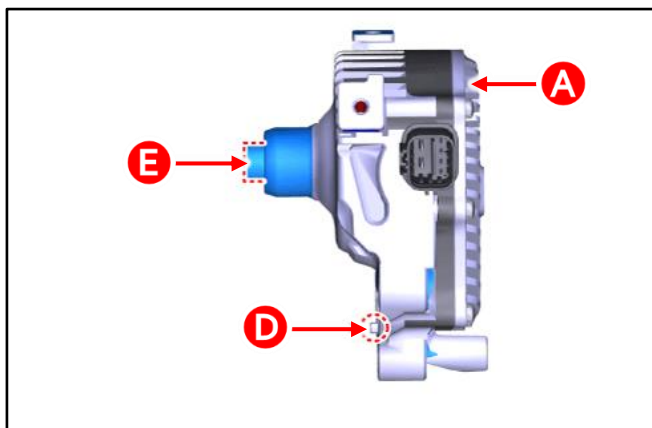
8. Thoroughly clean any oil or debris from the CVVD actuator (A).



9. Reinstall the CVVD actuator (A).

ⓘ IMPORTANT

When installing the CVVD actuator, ensure that the dowel pin (D) is inserted into the cam carrier hole after inserting the shaft (E).



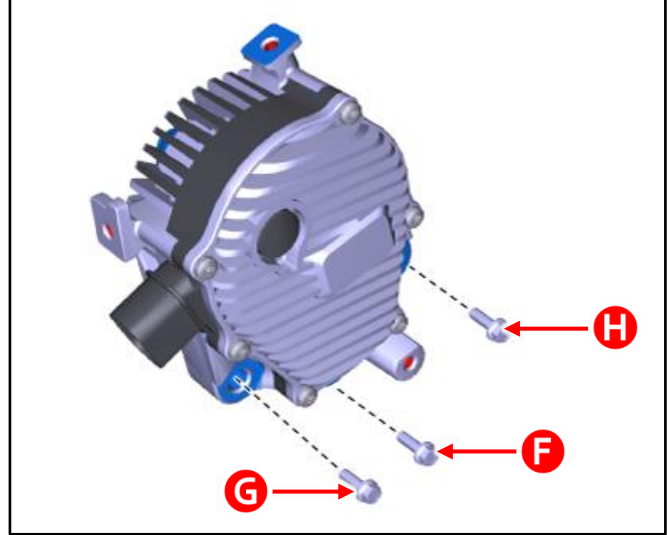
**CONTINUOUS VARIABLE VALVE DURATION (CVVD)
ACTUATOR OIL SEAL REPLACEMENT**

SUBJECT:

10. Tighten the bolts in the following order:
1. Lightly tighten the bolt (F).
 2. Tighten the bolt (G) to the torque specification below.
 3. Tighten the bolt (H) to the torque specified below.
 4. Tighten the bolt (F) to the torque specified below.



**Tightening torque for CVVD Bolts (F - H):
13.8 - 18.1 lb.ft (19.0 - 24.5 N.m)**



11. Reinstall all of the remaining removed parts in reverse order of removal.
12. Confirm normal engine operation.



CONTINUOUS VARIABLE VALVE DURATION (CVVD) ACTUATOR OIL SEAL REPLACEMENT

SUBJECT:


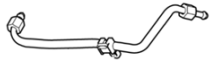
AFFECTED VEHICLE RANGE:

Model	Production Date Range
Sorento P/HEV (MQ4 P/HEV)	September 02, 2020 to February 24, 2022

REQUIRED TOOL:

Tool Name	Part Number	Figure	Comments
Seal Puller	N/A		Locally Sourced
Seal Driver Set	N/A		

REQUIRED PART:

Part Name	Part Number	Figure	Qty.	Comments
Oil Seal	22443 2M810FFF		1	N/A
High Pressure Fuel Pipe	35305 2M414FFF		1	N/A
White Lithium Grease	N/A	N/A	As Needed	Locally Sourced

Note: The replacement FFF part numbers will require a VIN entry for parts ordering. **DO NOT** order these parts for stocking purposes, related to this TSB. Supply is very limited. Until supply stabilizes, please confirm part availability before scheduling customers. Please be sure to expedite warranty claim filing.

WARRANTY INFORMATION:

N Code: B25 C Code: ZZ4

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	22443 2E000	0	CVVD Oil Seal Replacement	22443F01	0.6 M/H	22443 2M810FFF	1
						35305 2M414FFF	1

Note: For Substitute Transportation policy, please refer to Service Policy and Procedures Manual (SPPM) 6.11 "Kia Substitute Transportation".

