	GROUP	MODEL
KIA	**Electrical**	**Multiple Models Listed**
	NUMBER	DATE
	PS613 (Rev 1, 03/30/2022)	**June 2019**

PITSTOP | **TECHNICAL OPERATIONS**

SUBJECT: **INSTRUMENT CLUSTER REPLACEMENT AND MILEAGE SETTING WITH KDS**

> 📄 **NOTICE**
>
> **This bulletin has been revised to include additional information.** New/revised sections of this bulletin are indicated by a black bar in the margin area.

This pitstop provides the KDS service procedure for mileage setting on the models listed below with newly replaced instrument clusters. Certain models allow for mileage setting with the KDS, which prevents the need to send out the instrument cluster to a 3rd party for mileage adjustment (refer to PS264). After a new cluster is installed, cluster (variant) coding may also need to be conducted using the KDS. Make sure the KDS software is also updated to the latest version. Mileage setting should be performed by using the KDS only, as described in this bulletin.

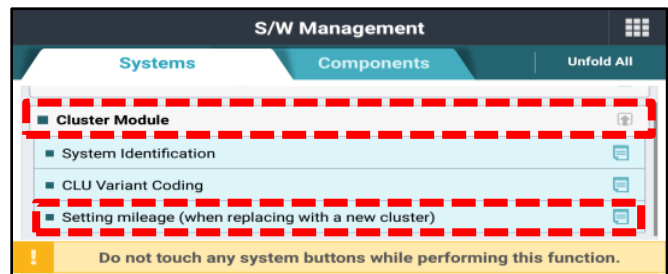Note: Refer to table on next page for applicable vehicles.

Model Year	Model	Comments
2017-2021	Cadenza (YG)	Follow **Procedure A** in this bulletin "Mileage Setting After Cluster Replacement"
2022~	EV6 (CV)	
2019~	Forte (BDm)	
2019-2020	K900 (RJ)	
2022~	Sorento PHEV (MQ4 PHEV)	
2020~	Soul (SK3)	
2020~	Telluride (ON)	
2023~	Sportage (NQ5)	
2022~	Carnival (KA4)	Follow **Procedure B** in this bulletin "Cluster Replacement & Mileage Setting"
2017-2018	Forte (YD, YDm)	
2019~	Niro EV (DE EV)	
2017~	Niro HEV (DE HEV)	
2018~	Niro PHEV (DE PHEV)	
2017-2021	Sedona (YP)	
2017-2020	Optima HEV (JF HEV)	
2017-2020	Optima PHEV (JF PHEV	
2017-2020	Sorento (UMa)	
2021~	Sorento (MQ4a)	
2021~	Sorento HEV (MQ4 HEV)	

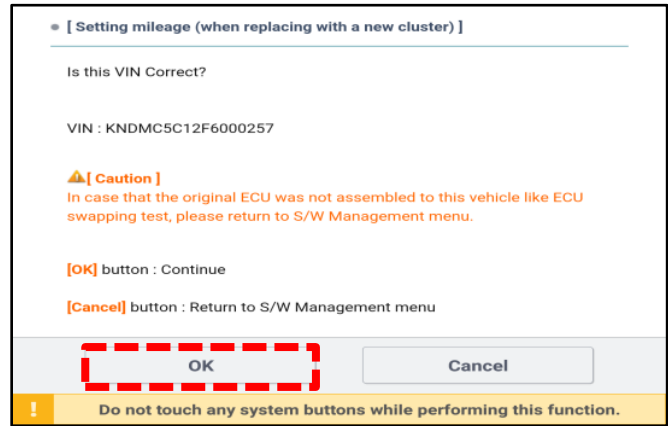## Procedure A: Mileage Setting After Cluster Replacement

1. With the VCI-II connected to the vehicle, select '**S/W Management**' on the KDS home page.

2. Select '**Cluster Module**' and then '**Setting mileage (when replacing with a new cluster)**'.

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3. Verify the VIN shown on the KDS S/W Management screen and select 'OK'.

    ● [Setting mileage (when replacing with a new cluster)]

    Is this VIN Correct?

    VIN : KNDMC5C12F0000257

    ⚠[Caution]
    In case that the original ECU was not assembled to this vehicle like ECU swapping test, please return to S/W Management menu.

    [OK] button : Continue

    [Cancel] button : Return to S/W Management menu

    | OK | Cancel |

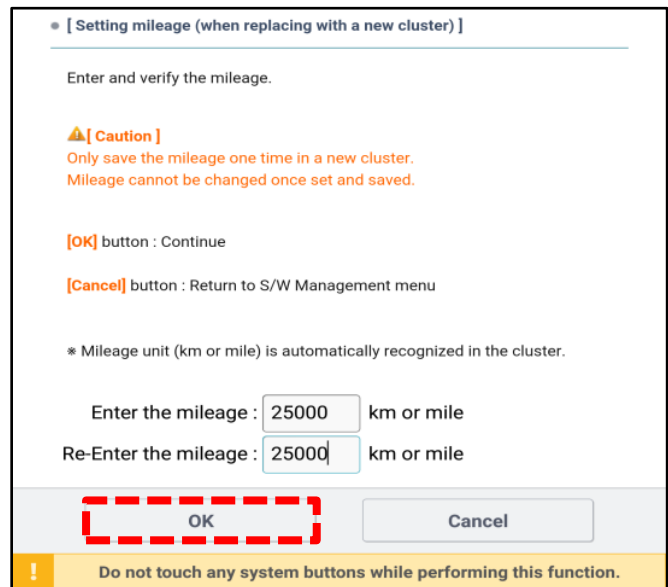   ❗ Do not touch any system buttons while performing this function.

4. Input the vehicle mileage recorded from the previous cluster and select 'OK'.
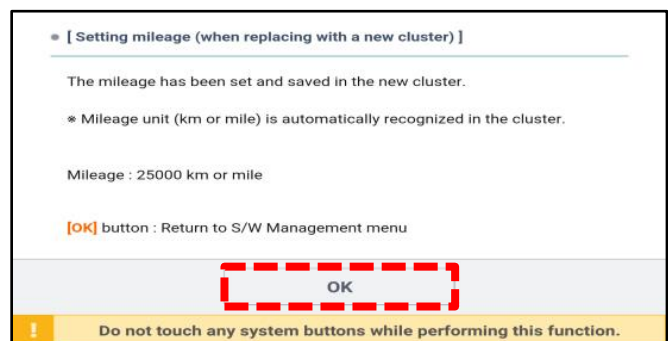
    ⚠**CAUTION**

    Once the mileage is registered, it cannot be modified.

    Before selecting OK, verify that the input mileage is correct to avoid another (unnecessary) replacement.
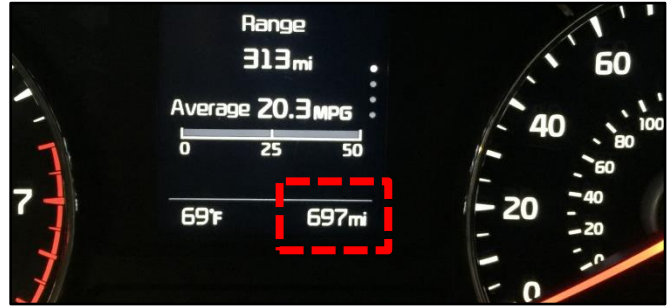
    ● [Setting mileage (when replacing with a new cluster)]

    Enter and verify the mileage.

    ⚠[Caution]
    Only save the mileage one time in a new cluster.
    Mileage cannot be changed once set and saved.

    [OK] button : Continue

    [Cancel] button : Return to S/W Management menu

    ※ Mileage unit (km or mile) is automatically recognized in the cluster.

    Enter the mileage : 25000   km or mile
    Re-Enter the mileage : 25000   km or mile

    | OK | Cancel |

    ❗ Do not touch any system buttons while performing this function.

5. Select 'OK' to return to the S/W Management menu then verify that the mileage displayed on the new cluster is correct.

    ● [Setting mileage (when replacing with a new cluster)]

    The mileage has been set and saved in the new cluster.

    ※ Mileage unit (km or mile) is automatically recognized in the cluster.

    Mileage : 25000 km or mile

    [OK] button : Return to S/W Management menu

    | OK |

    ❗ Do not touch any system buttons while performing this function.

6. Reprogram the customer's radio presets if necessary.

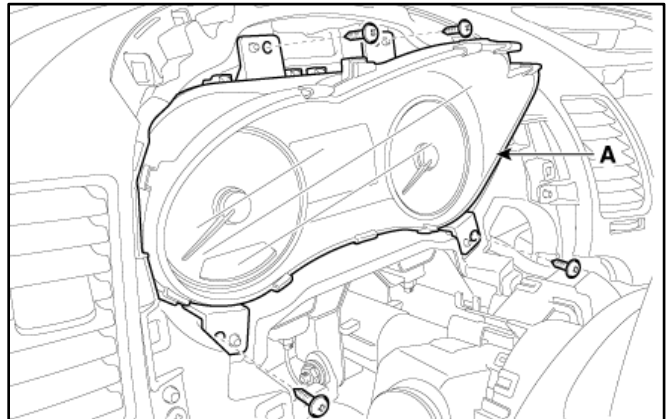## Procedure B: Cluster Replacement & Mileage Setting

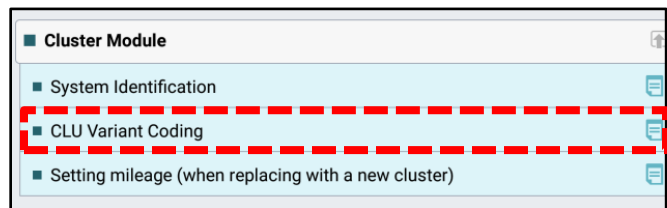1. Record the current mileage from the cluster in the vehicle.

2. With a KDS, navigate from the Home Page → S/W Management → Cluster Module → System Identification and record the original four (4) digit variant coding of the cluster ("EOL Code").

3. Record the customer's radio presets before disconnecting the battery for removal and installation of the instrument cluster.

4. Replace the instrument cluster by referring to the "Body Electrical System → Indicators and Gauges → Instrument Cluster → Repair Procedures" chapter in the applicable Shop Manual on KGIS.

5. After replacement, perform the CLU Variant Coding using a KDS, if needed.

6. Reprogram the customer's radio presets.

📄 NOTICE

- **To prevent mileage increase after cluster replacement, do NOT move the vehicle until variant coding has been performed and mileage has been set.**

- **Be aware that the cluster should be replaced with a new one again if mileage exceeds 20 miles before performing the CLU variant coding.**

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