	GROUP ELE	MODEL 2015MY~ Sedona (YP) 2017MY~ Forte (YD, YDm) 2016MY~ Sorento (UMa)
	NUMBER 106	DATE March 2017
<b>TECHNICAL SERVICE BULLETIN</b>		
<b>SUBJECT: INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE UPGRADE AND MILEAGE SETTING</b>		

This bulletin provides the procedure to perform a software upgrade and mileage setting on 2015MY~ Sedona (YP), 2016MY~ Sorento (UMa), and 2017MY~ Forte (YD, YDm) vehicles with newly replaced instrument clusters. This is a service procedure for adding the mileage update capability to KDS, which will prevent the requirement of dealers to send the instrument cluster to a 3<sup>rd</sup> party for mileage adjustment. After a new cluster is installed, cluster (variant) coding and/or software upgrade may need to be conducted using KDS. Make sure the KDS software is also updated to the latest version. This cluster software upgrade and mileage setting should be performed by using a KDS only as described in this bulletin.



**File Under: <Electrical>**

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

SUBJECT:

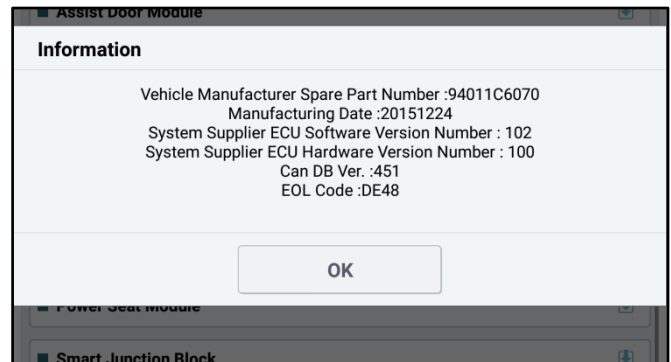
## INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE UPGRADE AND MILEAGE SETTING

### Service Procedure:

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

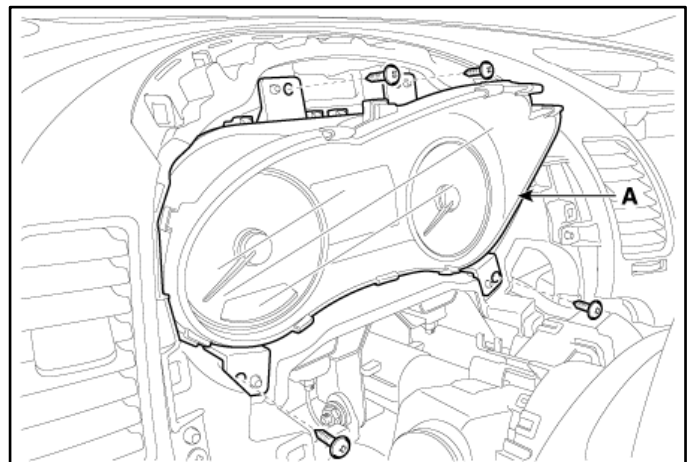


- With a KDS, navigate from the Home Page → S/W Management → Cluster Module → System Identification and record the original four (4) digit variant coding of the cluster (EOL Code).



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

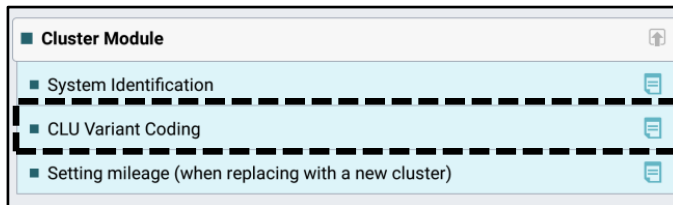
- Replace the instrument cluster by referring to the "Body Electrical System → Indicators and Gauges → Instrument Cluster → Repair Procedures" chapter in the applicable Shop Manual on KGIS.



## SUBJECT:

## INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE UPGRADE AND MILEAGE SETTING

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



### ★ NOTICE

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

### ★ NOTICE

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

6. Perform the ECU Upgrade by referring to the ECU Upgrade procedure below, if needed.

### ECU Upgrade Procedure:

The ECU should be reprogrammed using the KDS download.

[Click here for the KDS reflash procedure](#)

UPGRADE EVENT NAME
282.YP Setting Mileage (When Replacing With A New Cluster)
291.YDM Setting Mileage (When Replacing With A New Cluster)
293.UMA Setting Mileage (When Replacing With A New Cluster)

### ★ NOTICE

- A fully charged battery is necessary before ECU upgrade can take place. It is recommended that the Midtronics GR8-1299 system be used in ECU mode during charging. DO NOT connect any other battery charger to the vehicle during ECU upgrade.
- Ensure that the KDS is sufficiently charged before ECU upgrade can take place.
- All ECU upgrades must be done with the ignition key in the 'ON' position.
- Be careful not to disconnect the VCI-II during the ECU upgrade procedure.
- DO NOT start the engine during ECU upgrade.
- DO NOT turn the ignition key 'OFF' or interrupt the power supply during ECU upgrade.
- When the ECU upgrade is completed, turn the ignition 'OFF' and wait 10 seconds before starting the engine.
- ONLY use approved ECU upgrade software designated for the correct model, year.

SUBJECT:

## INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE UPGRADE AND MILEAGE SETTING

### Upgrade Event #282 Sedona (YP)

Model	Cluster Type	CLU P/N	ROM ID	
			Previous	New
YP	SEG (Segment)	94002-A9020	94002-A9020-200	94002-A9020-203
			94002-A9020-201	
			94002-A9020-202	
		94002-A9021	94002-A9021-202	94002-A9021-203
		94003-A9020	94003-A9020-200	94003-A9020-203
			94003-A9020-201	
	94003-A9020-202			
	94003-A9021	94003-A9021-202	94003-A9021-203	
	OLED (Organic LED)	94006-A9040	94006-A9040-200	94006-A9040-203
			94006-A9040-201	
		94006-A9041	94006-A9041-201	94006-A9041-203
		94006-A9100	94006-A9100-200	94006-A9100-203
			94006-A9100-201	
		94006-A9101	94006-A9101-201	94006-A9101-203
		94006-A9050	94006-A9050-200	94006-A9050-203
			94006-A9050-201	
		94006-A9051	94006-A9051-201	94006-A9051-203
		94006-A9110	94006-A9110-200	94006-A9110-203
			94006-A9110-201	
		94006-A9111	94006-A9111-201	94006-A9111-203
		94007-A9040	94007-A9040-200	94007-A9040-203
			94007-A9040-201	
		94007-A9041	94007-A9041-201	94007-A9041-203
		94007-A9100	94007-A9100-200	94007-A9100-203
			94007-A9100-201	
		94007-A9101	94007-A9101-201	94007-A9101-203
		94007-A9050	94007-A9050-200	94007-A9050-203
			94007-A9050-201	
	94007-A9051	94007-A9051-201	94007-A9051-203	
	94007-A9110	94007-A9110-200	94007-A9110-203	
		94007-A9110-201		
	94007-A9111	94007-A9111-201	94007-A9111-203	
	TFT (Thin Film Transistor)	94016-A9100	94016-A9100-200	94016-A9100-203
94016-A9101		94016-A9101-200	94016-A9101-203	
		94016-A9101-201		
94016-A9110		94016-A9110-200	94016-A9110-203	
94016-A9111		94016-A9111-200	94016-A9111-203	
	94016-A9111-201			
94016-A9040	94016-A9040-200	94016-A9040-203		

SUBJECT:

**INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE  
UPGRADE AND MILEAGE SETTING**

**Upgrade Event #282 Sedona (YP) Continued**

Model	Cluster Type	CLU P/N	ROM ID	
			Previous	New
YP	TFT (Thin Film Transistor)	94016-A9041	94016-A9041-200	94016-A9041-203
			94016-A9041-201	
		94016-A9050	94016-A9050-200	94016-A9050-203
		94016-A9051	94016-A9051-200	94016-A9051-203
			94016-A9051-201	
		94017-A9100	94017-A9100-200	94017-A9100-203
		94017-A9101	94017-A9101-200	94017-A9101-203
			94017-A9101-201	
		94017-A9110	94017-A9110-200	94017-A9110-203
		94017-A9111	94017-A9111-200	94017-A9111-203
			94017-A9111-201	
		94017-A9040	94017-A9040-200	94017-A9040-203
		94017-A9041	94017-A9041-200	94017-A9041-203
			94017-A9041-201	
94017-A9050	94017-A9050-200	94017-A9050-203		
94017-A9051	94017-A9051-200	94017-A9051-203		
	94017-A9051-201			

**Upgrade Event #291 Forte (YD, YDm)**

Model	Cluster Type	CLU P/N	ROM ID	
			Previous	New
YD, YDm	SEG (Segment)	94003-B0200	94003-B0200-100	94003-B0200-103
		94003-B0210	94003-B0210-100	94003-B0210-103
		94003-B0220	94003-B0220-100	94003-B0220-103
		94003-B0300	94003-B0300-100	94003-B0300-103
		94003-B0310	94003-B0310-100	94003-B0310-103
		94003-B0320	94003-B0320-100	94003-B0320-103
	MONO (Monolight)	94013-B0200	94013-B0200-101	94013-B0200-105
		94013-B0210	94013-B0210-101	94013-B0210-105
		94013-B0220	94013-B0220-101	94013-B0220-105
		94013-B0230	94013-B0230-101	94013-B0230-105
		94013-B0300	94013-B0300-101	94013-B0300-105
		94013-B0310	94013-B0310-101	94013-B0310-105
		94013-B0320	94013-B0320-101	94013-B0320-105
	TFT (Thin Film Transistor)	94013-B0330	94013-B0330-101	94013-B0330-105
		94022-B0200	94022-B0200-101	94022-B0200-105
		94022-B0210	94022-B0210-101	94022-B0210-105
		94022-B0240	94022-B0240-101	94022-B0240-105
		94021-B0300	94021-B0300-101	94021-B0300-105
	94021-B0310	94021-B0310-101	94021-B0310-105	
	94021-B0340	94021-B0340-101	94021-B0340-105	

SUBJECT:

## INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE UPGRADE AND MILEAGE SETTING

### Upgrade Event #293 Sorento (UMa)

Model	Cluster Type	CLU P/N	ROM ID	
			Previous	New
UMa 16MY	STD (Standard)	94002-C6000	94002-C6000-100	94002-C6000-103
			94002-C6000-101	
			94002-C6000-102	
		94002-C6010	94002-C6010-100	94002-C6010-103
			94002-C6010-101	
			94002-C6010-102	
		94002-C6100	94002-C6100-100	94002-C6100-103
			94002-C6100-101	
			94002-C6100-102	
		94002-C6110	94002-C6110-100	94002-C6110-103
			94002-C6110-101	
			94002-C6110-102	
		94001-C6000	94001-C6000-100	94001-C6000-103
			94001-C6000-101	
			94001-C6000-102	
	94001-C6010	94001-C6010-100	94001-C6010-103	
		94001-C6010-101		
		94001-C6010-102		
	94001-C6100	94001-C6100-100	94001-C6100-103	
		94001-C6100-101		
		94001-C6100-102		
	94001-C6110	94001-C6110-100	94001-C6110-103	
		94001-C6110-101		
		94001-C6110-102		
	94002-C6200	94002-C6200-100	94002-C6200-103	
		94002-C6200-101		
		94002-C6200-102		
	94002-C6210	94002-C6210-100	94002-C6210-103	
		94002-C6210-101		
		94002-C6210-102		
SVC (Super Vision Cluster)	94012-C6000	94012-C6000-100	94012-C6000-103	
		94012-C6000-101		
		94012-C6000-102		
	94012-C6010	94012-C6010-100	94012-C6010-103	
		94012-C6010-101		
		94012-C6010-102		
	94012-C6020	94012-C6020-100	94012-C6020-103	
		94012-C6020-101		
		94012-C6020-102		
	94012-C6030	94012-C6030-100	94012-C6030-103	
		94012-C6030-101		
		94012-C6030-102		
	94012-C6050	94012-C6050-100	94012-C6050-103	
		94012-C6050-101		
		94012-C6050-102		
94012-C6070	94012-C6070-100	94012-C6070-103		
	94012-C6070-101			
	94012-C6070-102			

SUBJECT:

INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE  
UPGRADE AND MILEAGE SETTING

**Upgrade Event #293 Sorento (UMa) Continued**

Model	Cluster Type	CLU P/N	ROM ID	
			Previous	New
UMa 16MY	SVC (Super Vision Cluster)	94012-C6100	94012-C6100-100	94012-C6100-103
			94012-C6100-101	
			94012-C6100-102	
		94012-C6110	94012-C6110-100	94012-C6110-103
			94012-C6110-101	
			94012-C6110-102	
		94012-C6120	94012-C6120-100	94012-C6120-103
			94012-C6120-101	
			94012-C6120-102	
		94012-C6130	94012-C6130-100	94012-C6130-103
			94012-C6130-101	
			94012-C6130-102	
		94012-C6150	94012-C6150-100	94012-C6150-103
			94012-C6150-101	
			94012-C6150-102	
		94012-C6170	94012-C6170-100	94012-C6170-103
			94012-C6170-101	
			94012-C6170-102	
		94011-C6000	94011-C6000-100	94011-C6000-103
			94011-C6000-101	
			94011-C6000-102	
		94011-C6010	94011-C6010-100	94011-C6010-103
			94011-C6010-101	
			94011-C6010-102	
		94011-C6020	94011-C6020-100	94011-C6020-103
			94011-C6020-101	
			94011-C6020-102	
		94011-C6030	94011-C6030-100	94011-C6030-103
			94011-C6030-101	
			94011-C6030-102	
94011-C6050	94011-C6050-100	94011-C6050-103		
	94011-C6050-101			
	94011-C6050-102			
94011-C6070	94011-C6070-100	94011-C6070-103		
	94011-C6070-101			
	94011-C6070-102			
94011-C6100	94011-C6100-100	94011-C6100-103		
	94011-C6100-101			
	94011-C6100-102			
94011-C6110	94011-C6110-100	94011-C6110-103		
	94011-C6110-101			
	94011-C6110-102			
94011-C6120	94011-C6120-100	94011-C6120-103		
	94011-C6120-101			
	94011-C6120-102			
94011-C6130	94011-C6130-100	94011-C6130-103		
	94011-C6130-101			
	94011-C6130-102			

**SUBJECT: INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE UPGRADE AND MILEAGE SETTING**

**Upgrade Event #293 Sorento (UMa) Continued**

Model	Cluster Type	CLU P/N	ROM ID	
			Previous	New
UMa 16MY	SVC (Super Vision Cluster)	94011-C6150	94011-C6150-100	94011-C6150-103
			94011-C6150-101	
			94011-C6150-102	
		94011-C6170	94011-C6170-100	94011-C6170-103
			94011-C6170-101	
			94011-C6170-102	
		94012-C6200	94012-C6200-100	94012-C6200-103
			94012-C6200-101	
			94012-C6200-102	
		94012-C6210	94012-C6210-100	94012-C6210-103
			94012-C6210-101	
			94012-C6210-102	
UMa 17MY	STD (Standard)	94002-C6001	94002-C6001-202	94002-C6000-203
		94002-C6101	94002-C6101-202	94002-C6101-203
		94001-C6001	94001-C6001-202	94001-C6001-203
		94001-C6101	94001-C6101-202	94001-C6101-203
		94001-C6101	94001-C6101-202	94001-C6101-203
		94002-C6201	94002-C6201-202	94002-C6201-203
		94002-C6220	94002-C6220-202	94002-C6220-203
	SVC (Super Vision Cluster)	94012-C6001	94012-C6001-205	94012-C6001-206
		94012-C6011	94012-C6011-205	94012-C6011-206
		94012-C6021	94012-C6021-205	94012-C6021-206
		94012-C6031	94012-C6031-205	94012-C6031-206
		94012-C6051	94012-C6051-205	94012-C6051-206
		94012-C6071	94012-C6071-205	94012-C6071-206
		94012-C6101	94012-C6101-205	94012-C6101-206
		94012-C6111	94012-C6111-205	94012-C6111-206
		94012-C6121	94012-C6121-205	94012-C6121-206
		94012-C6131	94012-C6131-205	94012-C6131-206
		94012-C6151	94012-C6151-205	94012-C6151-206
		94012-C6171	94012-C6171-205	94012-C6171-206
		94012-C6260	94012-C6260-205	94012-C6260-206
		94012-C6270	94012-C6270-205	94012-C6270-206
		94011-C6001	94011-C6001-205	94011-C6001-206
		94011-C6011	94011-C6011-205	94011-C6011-206
		94011-C6021	94011-C6021-205	94011-C6021-206
		94011-C6031	94011-C6031-205	94011-C6031-206
		94011-C6051	94011-C6051-205	94011-C6051-206
		94011-C6071	94011-C6071-205	94011-C6071-206
		94011-C6101	94011-C6101-205	94011-C6101-206
		94011-C6111	94011-C6111-205	94011-C6111-206
		94011-C6121	94011-C6121-205	94011-C6121-206
		94011-C6131	94011-C6131-205	94011-C6131-206
		94011-C6151	94011-C6151-205	94011-C6151-206
		94011-C6171	94011-C6171-205	94011-C6171-206
		94011-C6180	94011-C6180-205	94011-C6180-206
		94011-C6190	94011-C6190-205	94011-C6190-206
		94012-C6201	94012-C6201-205	94012-C6201-206
94012-C6220	94012-C6220-205	94012-C6220-206		



SUBJECT:

## INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE UPGRADE AND MILEAGE SETTING

### Upgrade Event #293 Sorento (UMa) Continued

Model	Cluster Type	CLU P/N	ROM ID	
			Previous	New
UMa 17MY	SVC (Super Vision Cluster)	94012-C6211	94012-C6211-205	94012-C6211-206
		94012-C6230	94012-C6230-205	94012-C6230-206

### MANUAL MODE ECU UPGRADE PASSWORDS:

#### ★ NOTICE

The manual upgrade should **ONLY** be performed **IF** the automatic upgrade fails.

If the automatic upgrade fails, turn the ignition key **OFF** for about 10 seconds, place it back in the **ON** position to reset the control unit before performing manual upgrade.

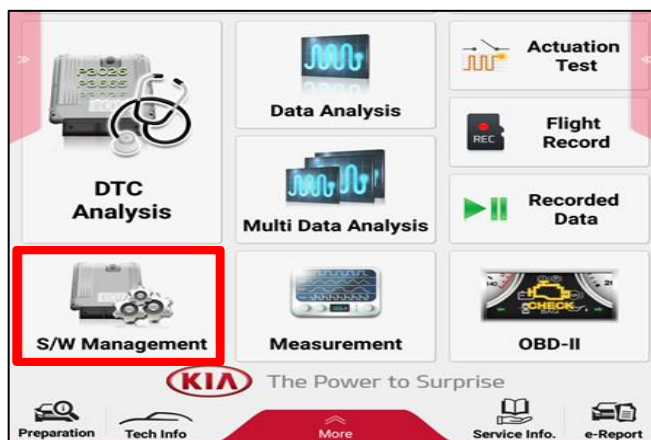
Model	Menu	Password
Sedona (YP)	YP CLUSTER SEG : 94002/3-A9020/1	9021
	YP CLUSTER OLED : 94006/7-A9040/041/100/101/050/051/110/111	9111
	YP CLUSTER TFT : 94016/7-A9100/101/110/111/040/041/050/051	9020

Model	Menu	Password
Forte (YD, YDm)	YDM CLUSTER SEG : 94003-B0200/210/220/300/310/320	0320
	YDM CLUSTER MONO : 94013-B0200/210/220/230/300/310/320/330	0330
	YDM CLUSTER TFT : 94022-B0200/210/240, 94021-B0300/310/340	0340

Model	Menu	Password
Sorento (UMa)	UMa Cluster STD : 94001/94002-C6000/010/100/110, 94002-C6200/210	6210
	UMa 17MY Cluster STD : 94001/94002-C6001/101, 94002-C6201/220	6220
	UMa Cluster SVC : 94011/94012-C6000/010/020/030/050/070/100/110/120/130/150/170/200/210	6211
	UMa 17MY Cluster SVC : 94011/94012-C6**1, 94011-C6180/190, 94012-C6201/220/221/230/260/270	6230

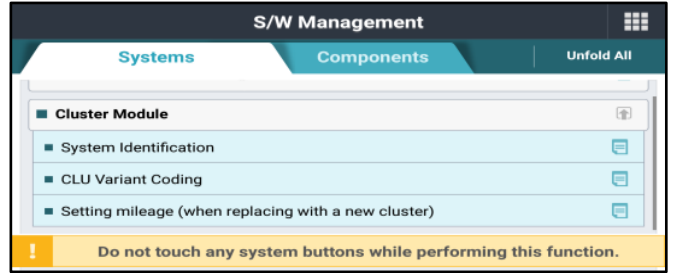
### Setting the Mileage Procedure:

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

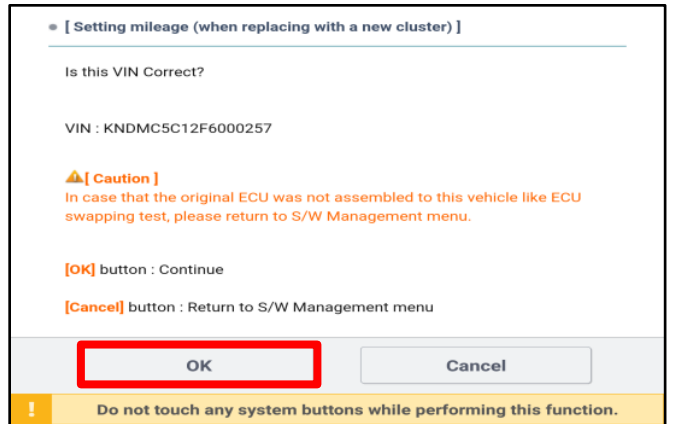


**SUBJECT: INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE UPGRADE AND MILEAGE SETTING**

2. Select **Cluster Module** and select **Setting Mileage (when replacing with a new cluster)**.



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

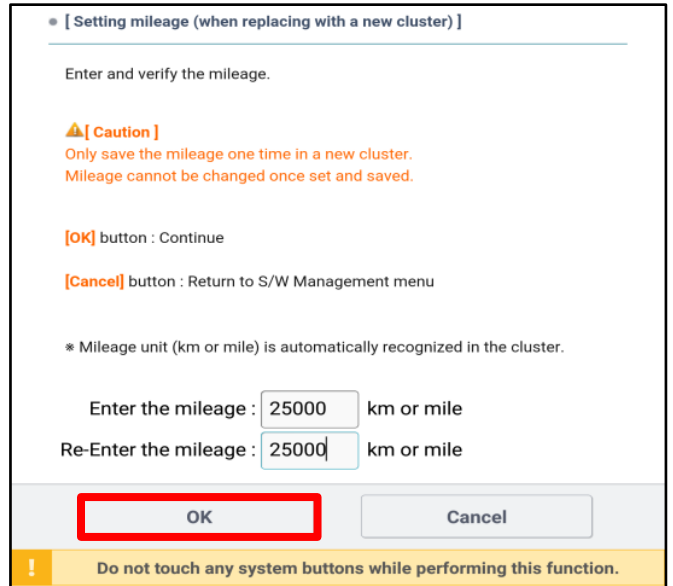


4. Input the vehicle mileage recorded from the previous cluster and select **OK**.

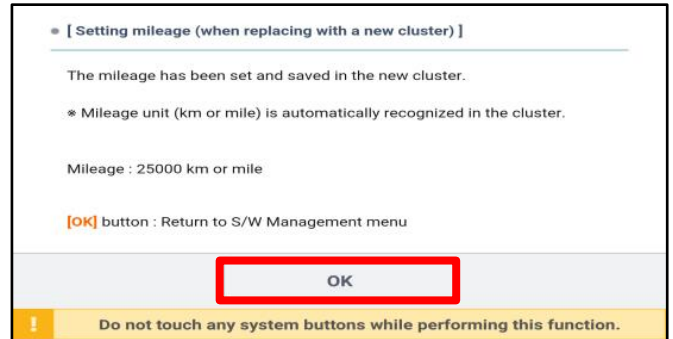
**CAUTION**

Once the mileage is registered, it cannot be modified.

Before selecting OK, verify that the input mileage is correct to avoid another (unnecessary) replacement.



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



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

**SUBJECT:****INSTRUMENT CLUSTER REPLACEMENT, SOFTWARE  
UPGRADE AND MILEAGE SETTING****AFFECTED VEHICLE RANGE:**

<b>Model</b>	<b>Production Date Range</b>
Sedona (YP)	2015MY~
Forte (YD, YDm)	2017MY~
Sorento (UMa)	2016MY~

**WARRANTY INFORMATION:****N CODE: B18 C CODE: ZZ3**

<b>Model</b>	<b>Claim Type</b>	<b>Causal P/N</b>	<b>Qty.</b>	<b>Repair Description</b>	<b>Labor Op Code</b>	<b>Op Time</b>	<b>Replacement P/N</b>	<b>Qty.</b>
Sedona (YP)	W	94003 A9020	0	YP Cluster Replacement and Mileage Setting (including CLU S/W upgrade)	94000F01	0.6 M/H	Refer to EPC	1
Forte (YD, YDm)	W	94003 B0300	0	YDm Cluster Replacement and Mileage Setting (including CLU S/W upgrade)	94000F02	0.6 M/H	Refer to EPC	1
Sorento (UMa)	W	94001 C6000	0	UMa Cluster Replacement and Mileage Setting (including CLU S/W upgrade)	94000F03	0.8 M/H	Refer to EPC	1

**CAUTION**

Some new clusters may already be variant coded and/or may have an upgraded software. Variant coding and/or software upgrade may not be needed if already completed. Verify the coding and software upgrade using the applicable tables starting on page 4 of this bulletin.