Component Procedures: Air Bag Control Module

Table of Contents

Component Procedures: Air Bag Control Module

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Supplemental Restraint System	88952F2500	Control Module	307.66	
Supplemental Restraint Syste?	95910F2950	With Sport	588.08	
Supplemental Restraint Syste?	95910F2150	Without Sport	588.08	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Supplemental Restraint System > SDM Module, R?	B	0.7	0.0

SRS Control Module (SRSCM) - Description and Operation (Article 44903)

- Description

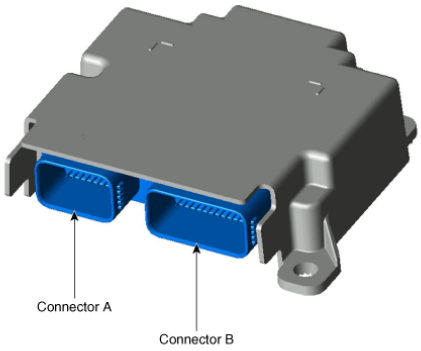
- Supplemental Restraint System Control Module (SRSCM) determines whether and when to deploy air bag module , seat belt pretensioner (BPT) and emergency fastenig device (EFD).
- It supplies the air bag module with the power required to deploy the module or the BPT and EFD.
- It also performs self-diagnosis function of the supplemental restraint system.

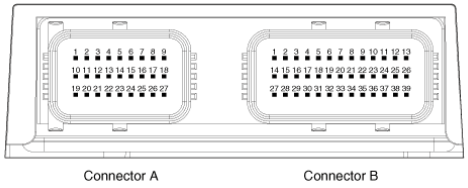
SRS Control Module (SRSCM) - Components and Components Location (Article 44902)

- Components

1. Supplemental Restraint System Control Module (SRSCM)

Supplemental Restraint System Control Module (SRSCM)

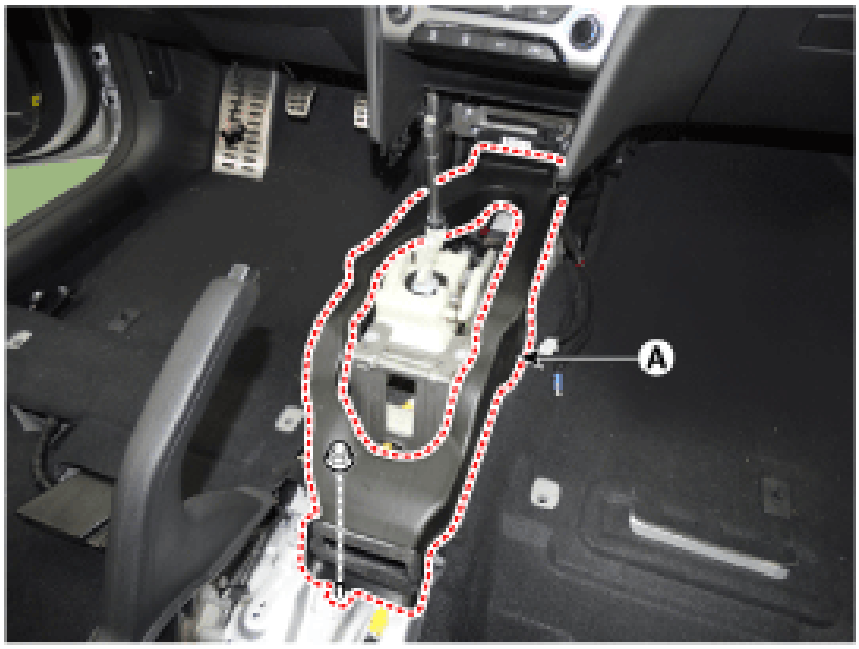




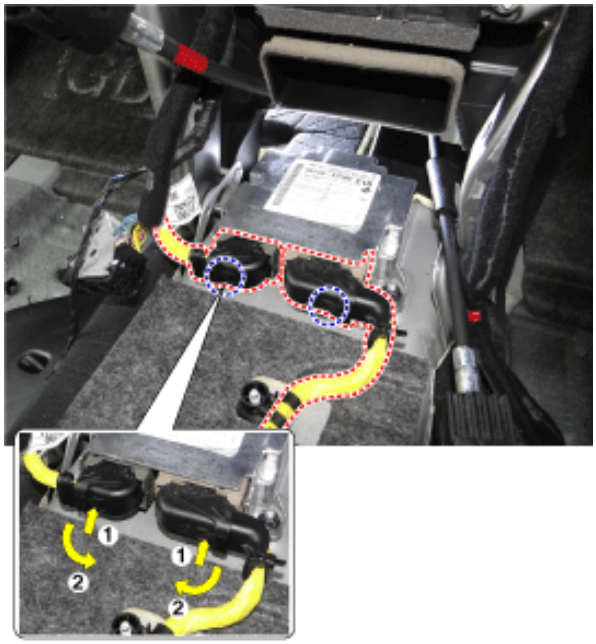
No Connector A Connector B
1 IGN 1 Ground
2 Driver front impact sensor - High (+) Driver seat belt pretensioner - High (+)
3 Driver front impact sensor - Low (-) Driver seat belt pretensioner - Low (-)
4 Driver airbag 1st stage - High (+) Driver emergency fastening device - Low (-)
5 Driver airbag 1st stage - Low (-) Driver emergency fastening device - High (+)
6 Passenger airbag 1st stage - Low (-) Driver side airbag - High (+)
7 Passenger airbag 1st stage - High (+) Driver side airbag - Low (-)
8 - Passenger side airbag - Low (-)
9 - Passenger side airbag - High (+)
10 Crash signal output Driver side impact sensor - High (+)
11 Passenger front impact sensor - High (+) Driver side impact sensor - Low (-)
12 Passenger front impact sensor - Low (-) Passenger side impact sensor - Low (-)
13 Driver airbag 2nd stage - High (+) Passenger side impact sensor - High (+)
14 Driver airbag 2nd stage - Low (-) -
15 Passenger airbag 2nd stage - Low (-) Passenger seat belt pretensioner - High (+)
16 Passenger airbag 2nd stage - High (+) Passenger seat belt pretensioner - Low (-)
17 C-CAN (High) Passenger emergency fastening device - Low (-)
18 C-CAN (Low) Passenger emergency fastening device - High (+)
19 - Driver curtain airbag - High (+)
20 Passenger airbag indicator Driver curtain airbag - Low (-)
21 - Passenger curtain airbag - Low (-)
22 Driver Knee Airbag - High (+) Passenger curtain airbag - High (+)
23 Driver Knee Airbag - Low (-) Driver Passenger side impact sensor - High (+)
24 - Driver pressure side impact sensor - Low (-)
25 - Passenger pressure side impact sensor - Low (-)
26 Local CAN (High) Passenger Passenger side impact sensor - High (+)
27 Local CAN (Low) -
28 -
29 -
30 -
31 -
32 -
33 -
34 -
35 -
36 -
37 -
38 -

SRS Control Module (SRSCM) - Repair Procedures (Article 44904)

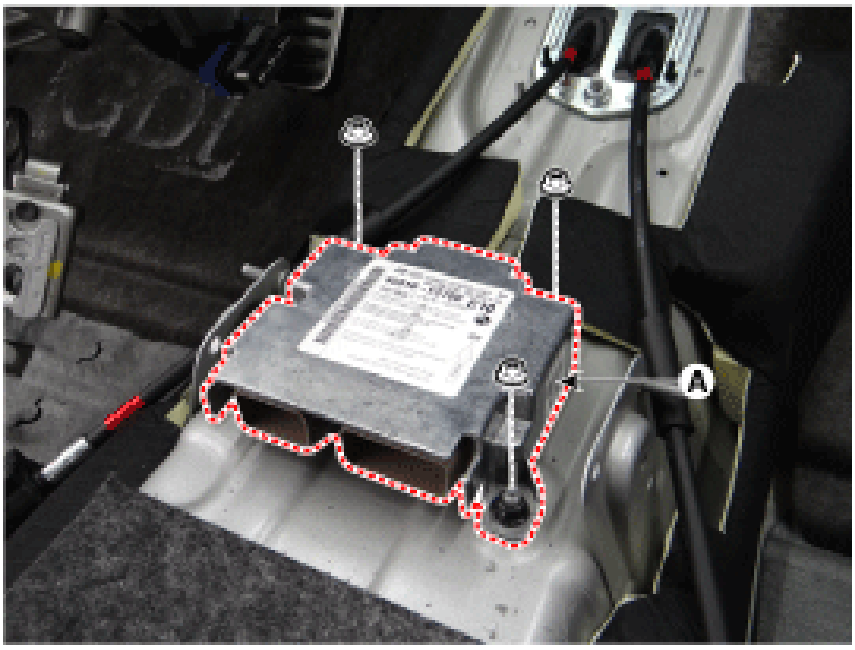
- Removal
- Remove the ignition key from the vehicle.
- Disconnect the battery negative cable and wait for at least three minutes before beginning work.
- Remove the floor console. (Refer to Body - "Floor Console Assembly")
- Remove the center console duct (A) after loosening the mounting nut.



- Disconnect the SRSCM connectors.



- Remove the SRSCM (A) after loosening the mounting nuts.



- Installation

- Install the SRSCM (A) with the SRSCM mounting nuts. Tightening torque : 7.8 - 9.8 N.m (0.8 - 1.0 kgf.m, 5.8 - 7.2 lb-ft)
- Connect the SRSCM harness connectors.
- Install the heater ducts and floor console. (Refer to Body - "Floor Console Assembly")
- Reconnect the battery negative cable.
- After installing the SRSCM, confirm proper system operation : Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off. If the SRSCM is replaced always, perform variant coding. Also, perform the lateral G sensor 0 point setup. (Refer to Brake System - "Yaw-rate and Lateral G Sensor")

If the SRSCM is replaced always, perform variant coding. Also, perform the lateral G sensor 0 point setup. (Refer to Brake System - "Yaw-rate and Lateral G Sensor")

CAUTION

- If the SRSCM is replaced always, perform variant coding. Also, perform the lateral G sensor 0 point setup. (Refer to Brake System - "Yaw-rate and Lateral G Sensor")

- Variant Coding

On SRSCM variant coding mode, the airbag warning lamp periodically blinks (ON: 0.5sec., OFF: 0.5sec.) until the coding is normally completed. If the variant coding fails, DTC B176200 (ACU Coding Error) will be displayed and the warning lamp will turn on. In this case, perform the variant coding procedure again after confirming the cause in “DTC Fault State Information”. Variant Coding can be performed up to 255 times, but if the number of coding work exceeds 255 times, DTC B168300 (Exceed Maximum coding Number) will be displayed and SRSCM must be replaced. If the battery voltage is low (less than 9V), DTC B110200 will be displayed. In this case, charge the battery before anything else, and then perform the variant coding procedure. DTC B176200 (ACU Coding Error) and B110200 (Battery Voltage Low) may be displayed simultaneously.

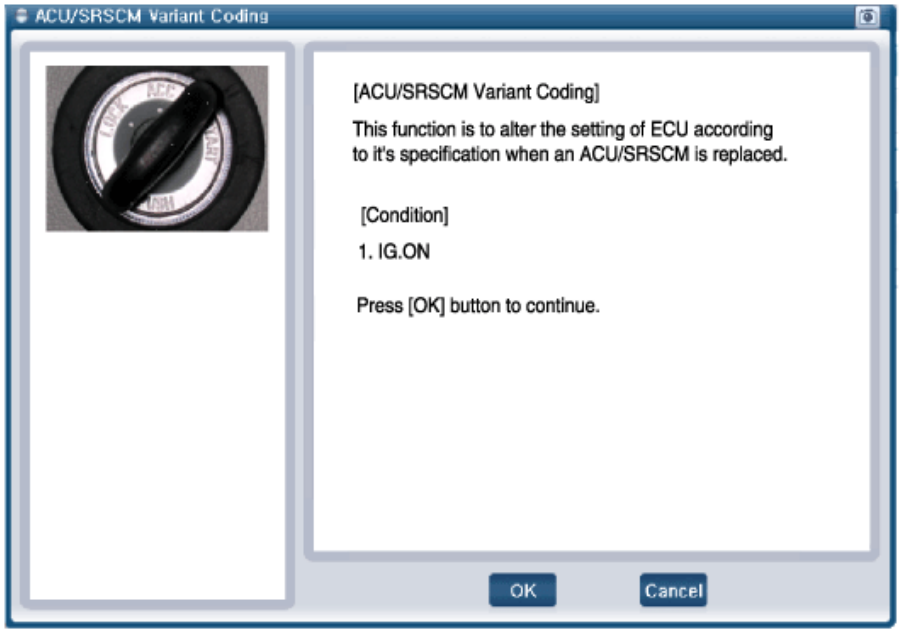
NOTICE

- On SRSCM variant coding mode, the airbag warning lamp periodically blinks (ON: 0.5sec., OFF: 0.5sec.) until the coding is normally completed.
- If the variant coding fails, DTC B176200 (ACU Coding Error) will be displayed and the warning lamp will turn on. In this case, perform the variant coding procedure again after confirming the cause in “DTC Fault State Information”. Variant Coding can be performed up to 255 times, but if the number of coding work exceeds 255 times, DTC B168300 (Exceed Maximum coding Number) will be displayed and SRSCM must be replaced.
- If the battery voltage is low (less than 9V), DTC B110200 will be displayed. In this case, charge the battery before anything else, and then perform the variant coding procedure. DTC B176200 (ACU Coding Error) and B110200 (Battery Voltage Low) may be displayed simultaneously.

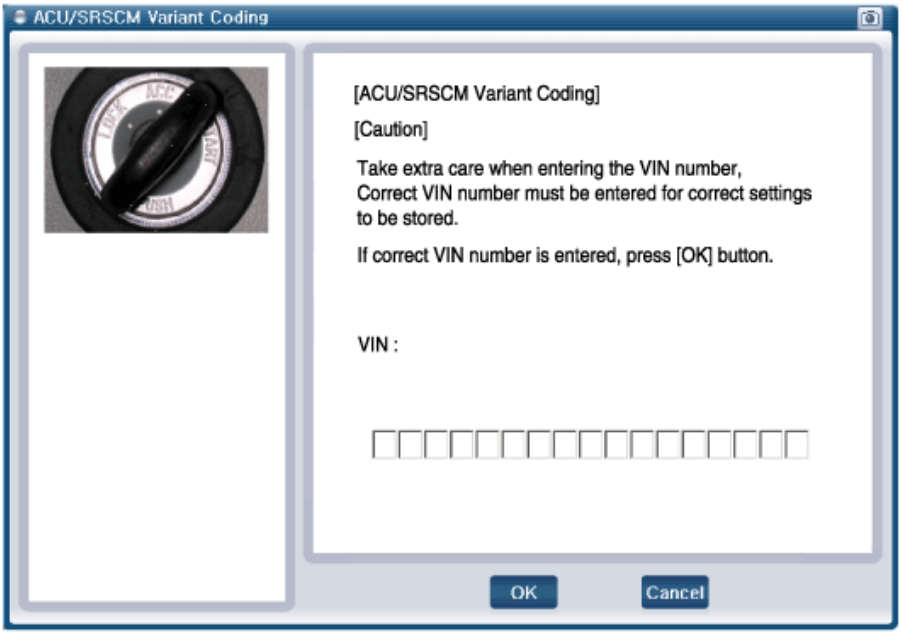
Variant Coding Procedure

■ On-line type on GDS

- Turn the ignition switch OFF.
- Connect the GDS.
- Turn the ignition switch ON without the engine running.
- Select vehicle name and airbag system.
- Select variant coding mode.
- Follow the steps on the screen below. Initial ACU Variant Coding screen VIN Code entering screen Variant Coding's proceeding screen-1 Variant Coding's proceeding screen-2 Variant Coding is completed
- Initial ACU Variant Coding screen



- VIN Code entering screen



- Variant Coding's proceeding screen-1

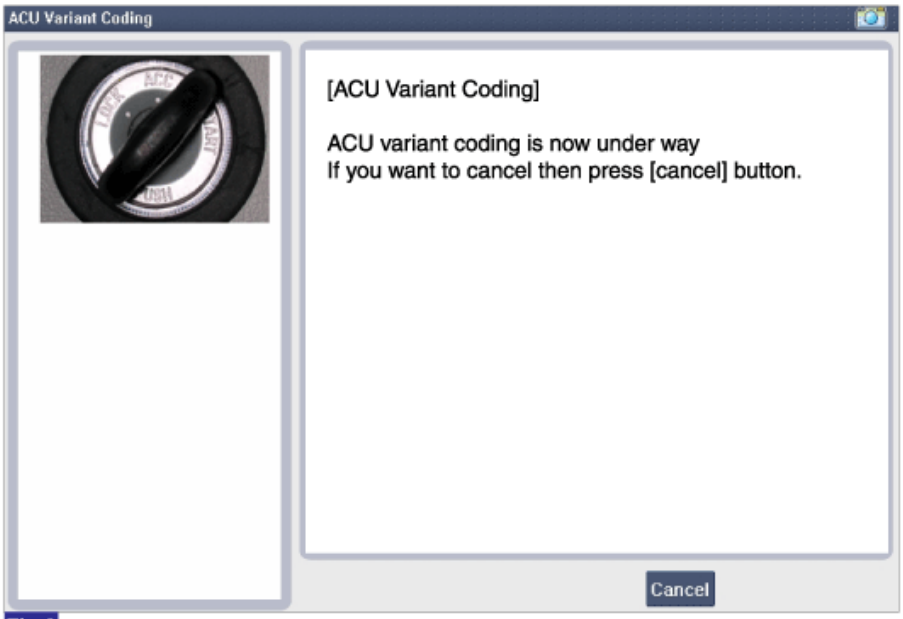


Fig.3

- Variant Coding's proceeding screen-2

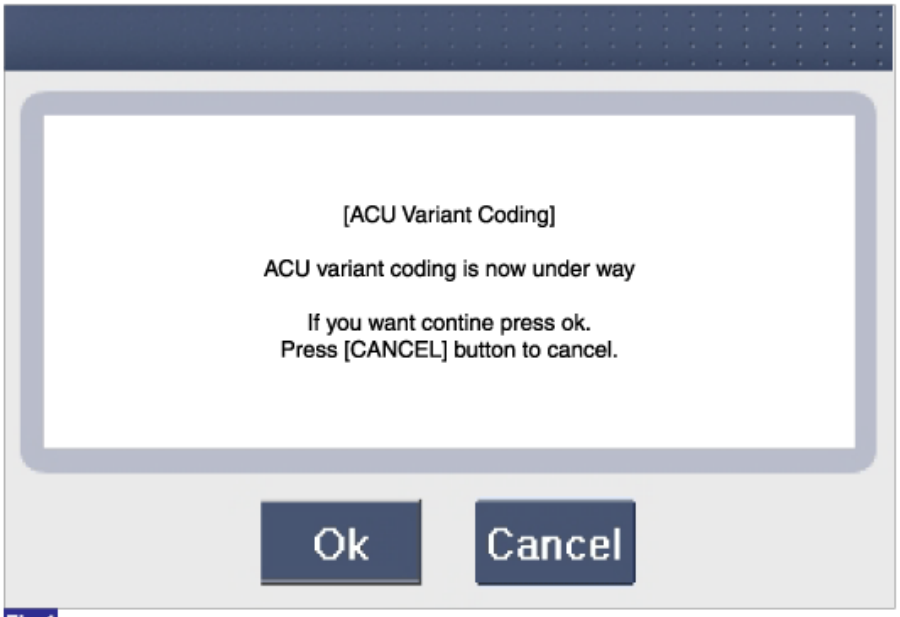


Fig.4

- Variant Coding is completed

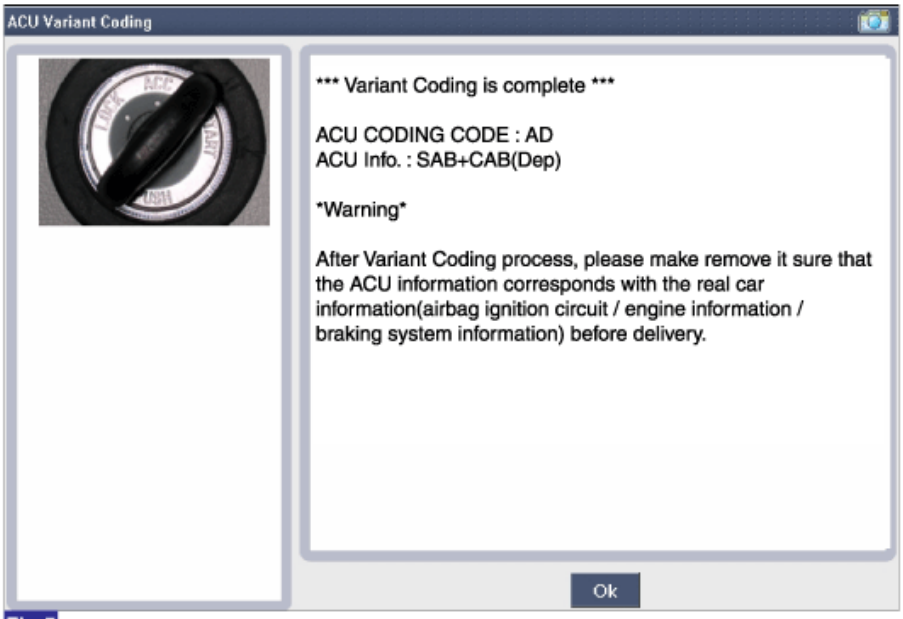
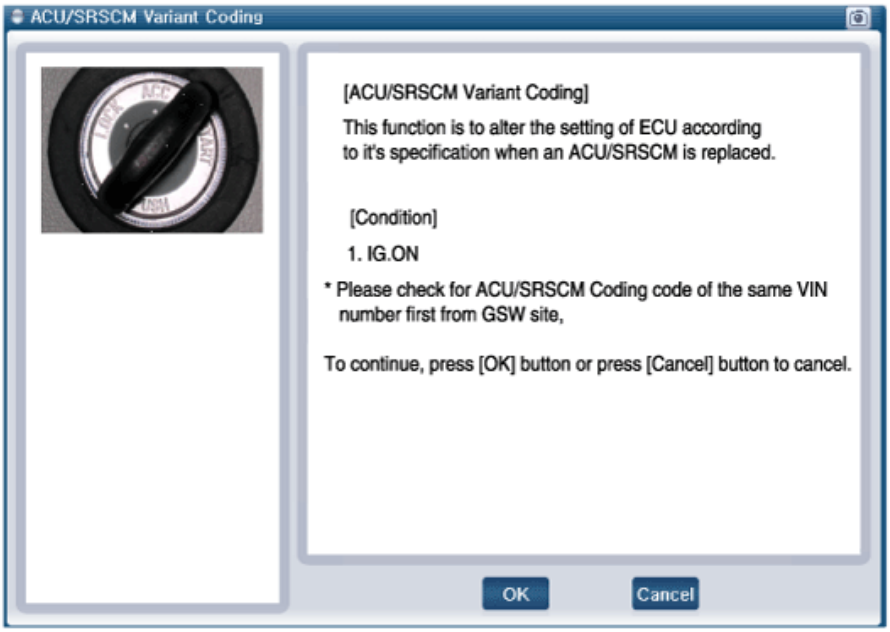


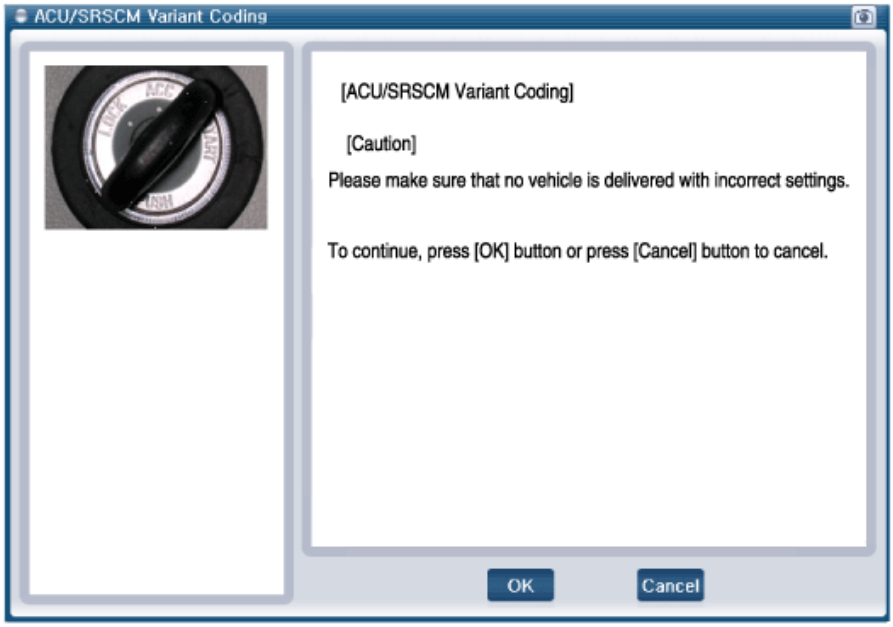
Fig.5

This screen is shown when you try variant coding on the SRSCM which has been performed before. This screen is shown when communication failure has occurred.

- This screen is shown when you try variant coding on the SRSCM which has been performed before.



- This screen is shown when communication failure has occurred.



■ Off-line type on GDS (Use when not connected to the internet)

- Follow the steps on the screen below. Initial ACU Variant Coding screen ACU Coding Code entering screen Rechecking ACU Coding Code entering screen Variant Coding's proceeding screen-1 Variant Coding's proceeding screen-2 Variant Coding is completed This screen is shown when you try variant coding on the SRSCM which has been performed before.

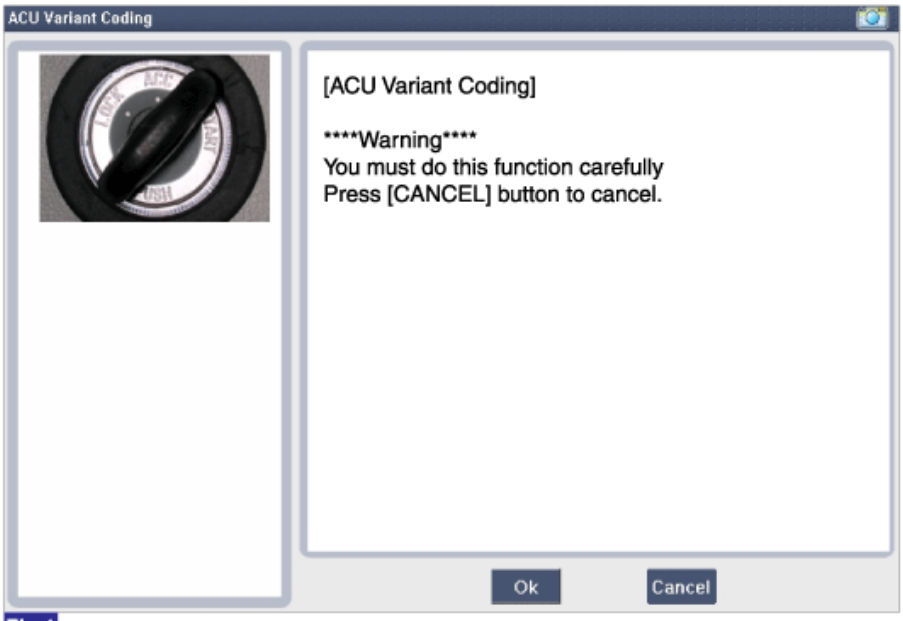
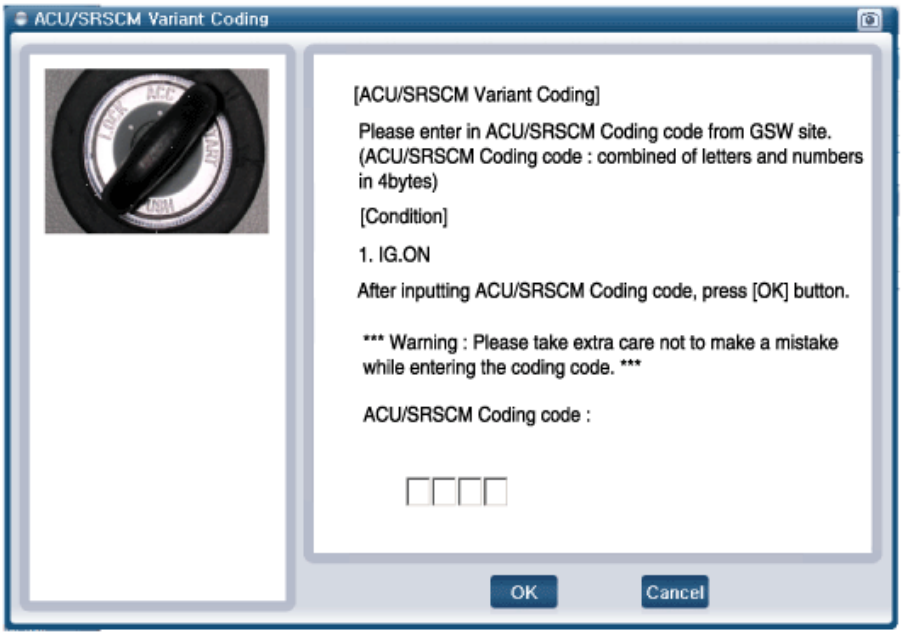


Fig.1

- ACU Coding Code entering screen



- Rechecking ACU Coding Code entering screen

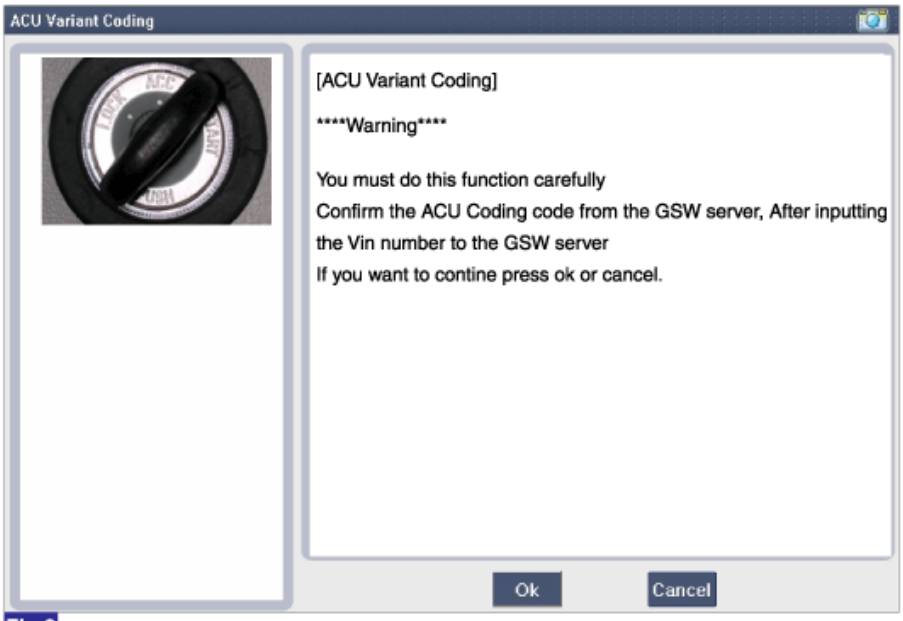

ACU Variant Coding
[ACU Variant Coding]
****Warning****
You must do this function carefully
Confirm the ACU Coding code from the GSW server, After inputting the Vin number to the GSW server
If you want to contine press ok or cancel.
Ok
Cancel

Fig.3

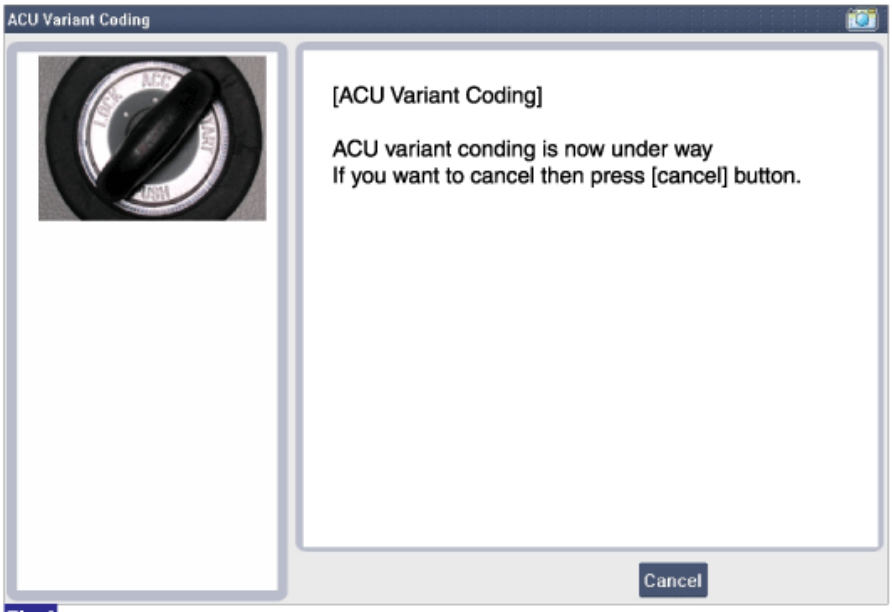

ACU Variant Coding
[ACU Variant Coding]
ACU variant conding is now under way
If you want to cancel then press [cancel] button.
Cancel

Fig.4

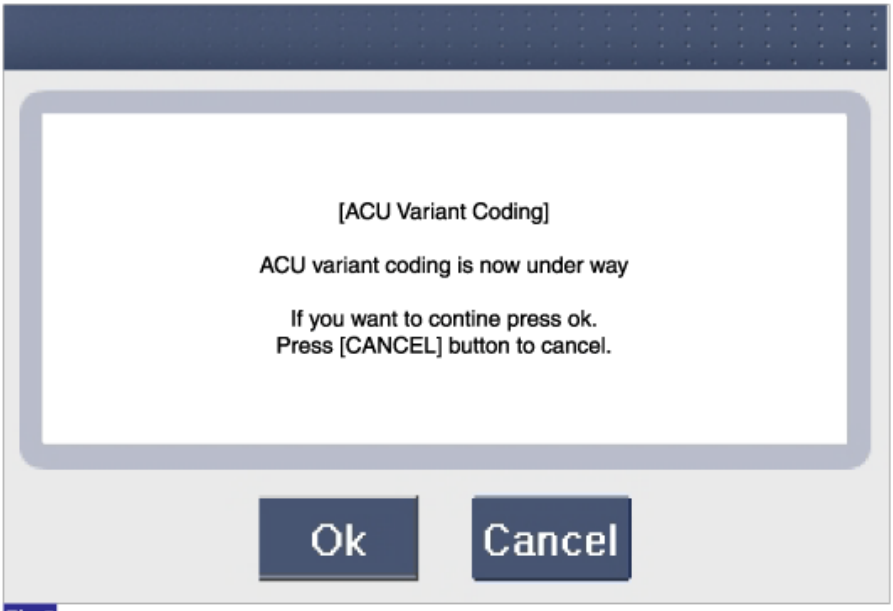


Fig.5

- Variant Coding is completed This screen is shown when you try variant coding on the SRSCM which has been performed before.

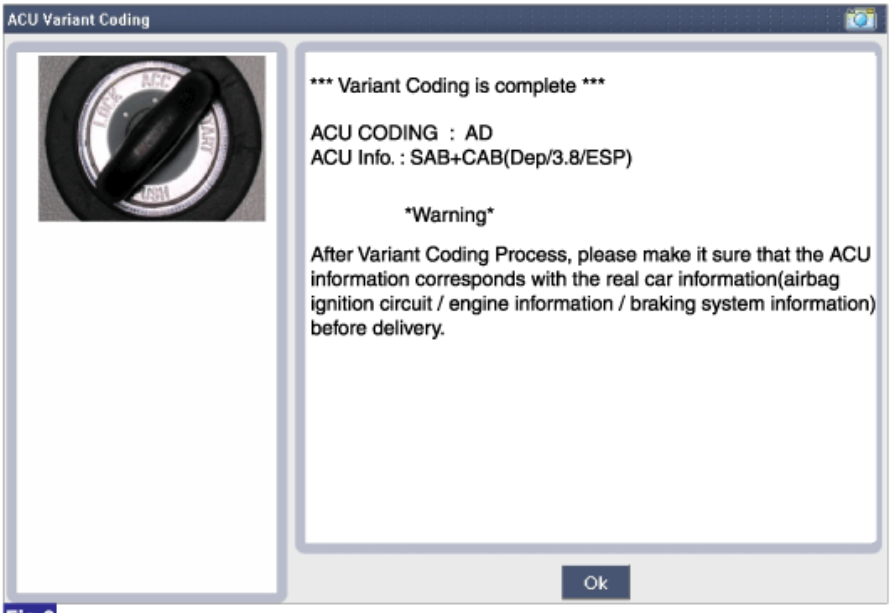


Fig.6

This screen is shown when you try variant coding on the SRSCM which has been performed before.

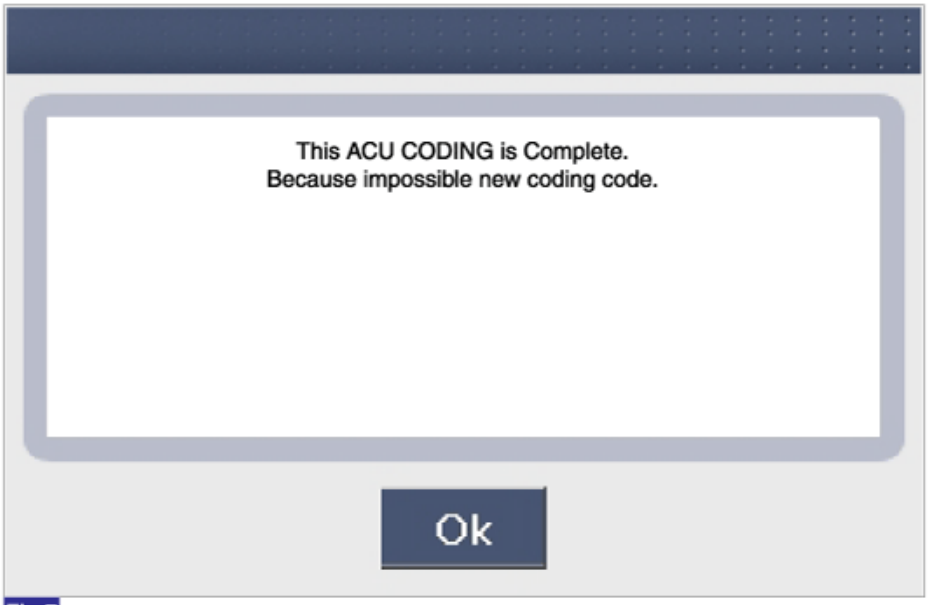

This ACU CODING is Complete.
Because impossible new coding code.
Ok

Fig.7