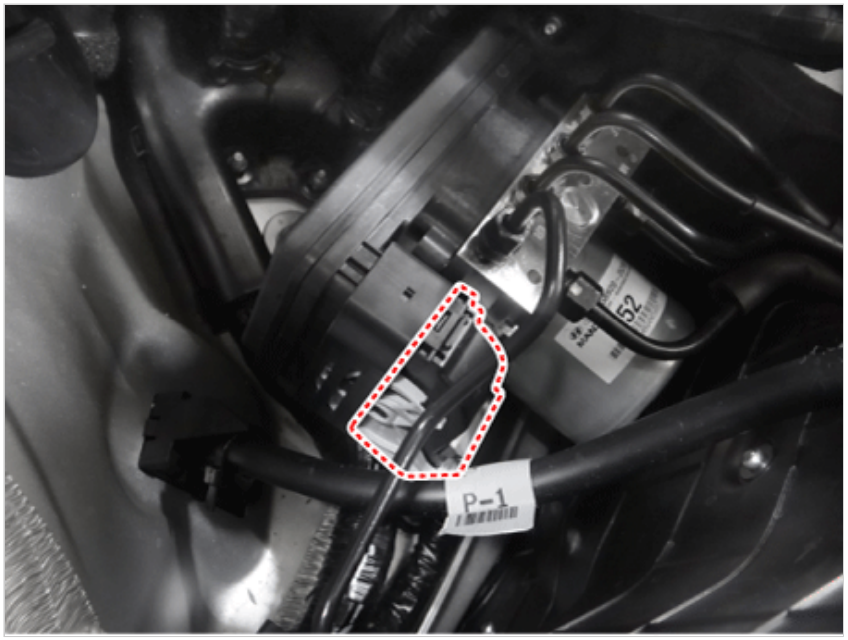
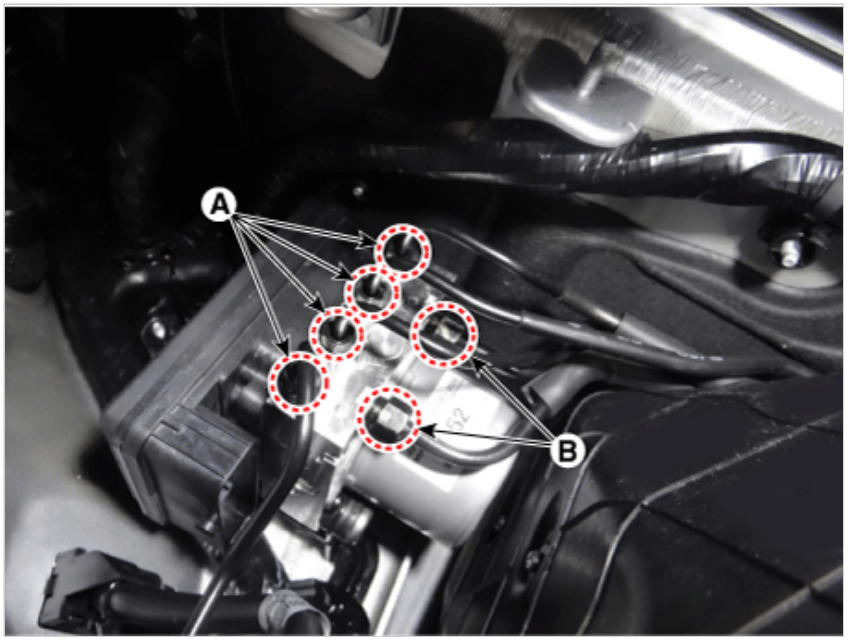
Removal

1. Turn ignition switch OFF and disconnect the negative (-) battery cable.
2. Separate the engine room relay block.
   (Refer to Body Electrical System - "Relay box (Engine compartment)")
3. Disconnect the ESC connector.



4. Loosen the ESC brake tube flare nuts.

Tightening torque :
(A) : 16.7 - 20.6 N·m (1.7 - 2.1 kgf·m, 12.3 - 15.2 lb·ft)
(B) : 20.6 - 24.5 N·m (2.1 - 2.5 kgf·m, 15.2 - 18.1 lb·ft)



5. Loosen the ESC bracket bolts and then remove the ESC.

Tightening torque :
16.7 - 25.5 N·m (2.0 - 3.0 kgf·m, 12.3 - 18.8 lb·ft)

NOTICE

- Never attempt to disassemble the ESC.
- The ESC must be transported and stored in.
- Never shock to the ESC.

Installation

1. Install in the reverse order of removal.
2. After installation, bleed the brake system.
   (Refer to Brake system - "Brake Bleeding Procedures")

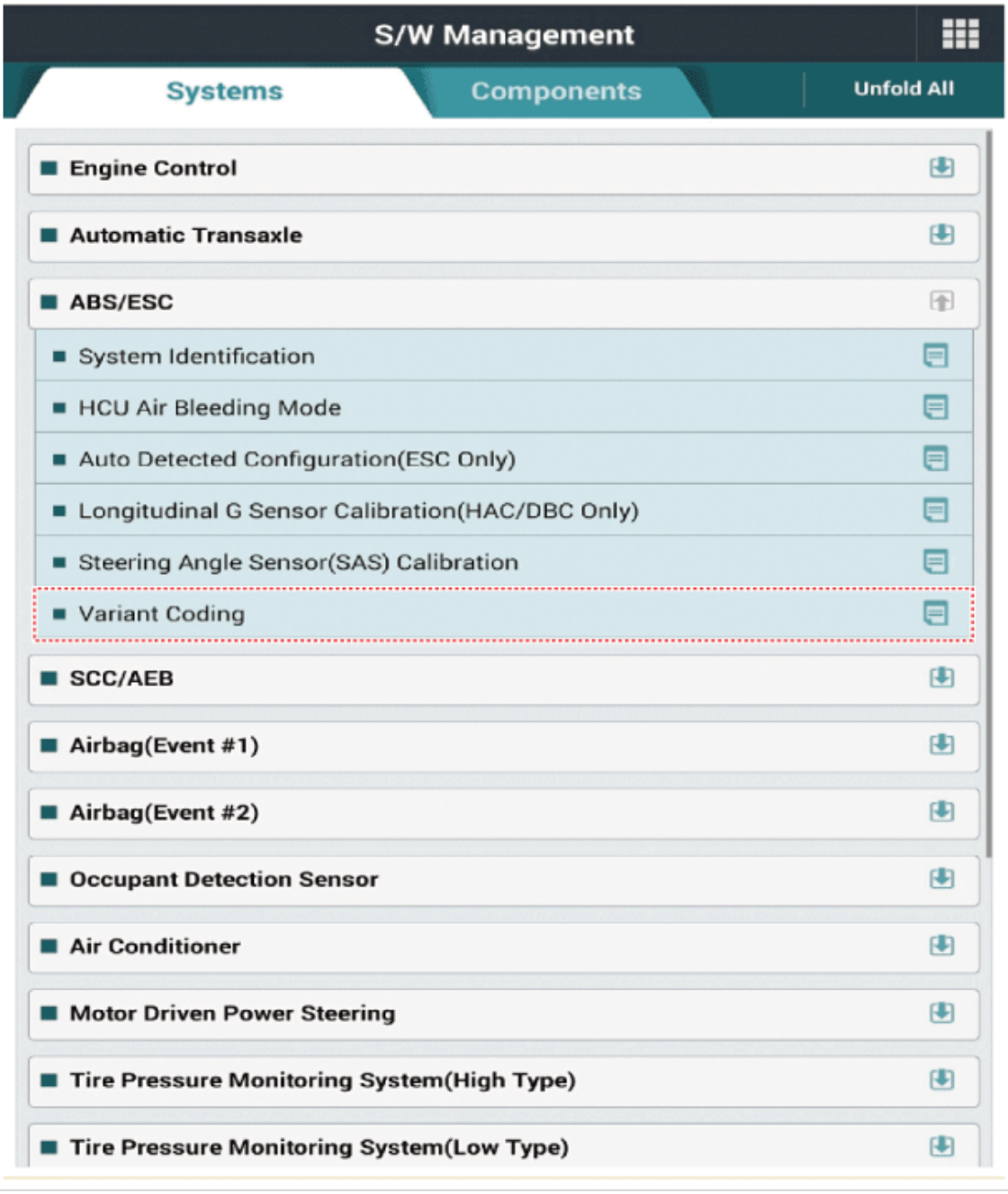
Diagnostic procedure by using diagnostic device

Perform diagnostic procedure by using diagnostic device as shown below:

Connect self-diagnosis connector (16pins) located under the driver side crash pad to self-diagnosis device, and then turn the self-diagnosis device after key is ON.

Select the "vehicle model" and "ESC" on KDS vehicle selection screen, then select OK.

[Variant Code Reset]

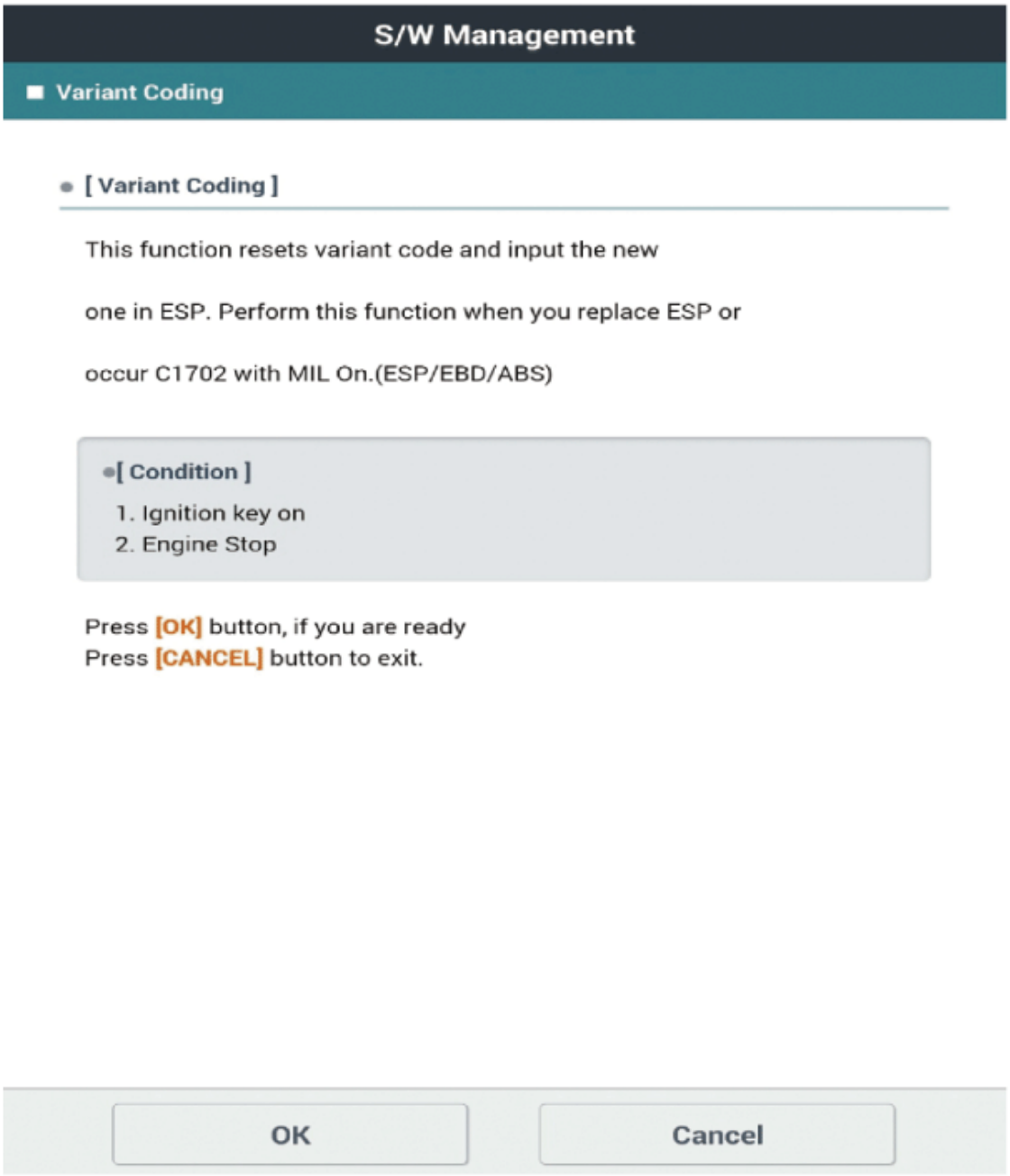

S/W Management
Systems
Components
Unfold All
Engine Control
Automatic Transaxle
ABS/ESC
System Identification
HCU Air Bleeding Mode
Auto Detected Configuration(ESC Only)
Longitudinal G Sensor Calibration(HAC/DBC Only)
Steering Angle Sensor(SAS) Calibration
Variant Coding
SCC/AEB
Airbag(Event #1)
Airbag(Event #2)
Occupant Detection Sensor
Air Conditioner
Motor Driven Power Steering
Tire Pressure Monitoring System(High Type)
Tire Pressure Monitoring System(Low Type)

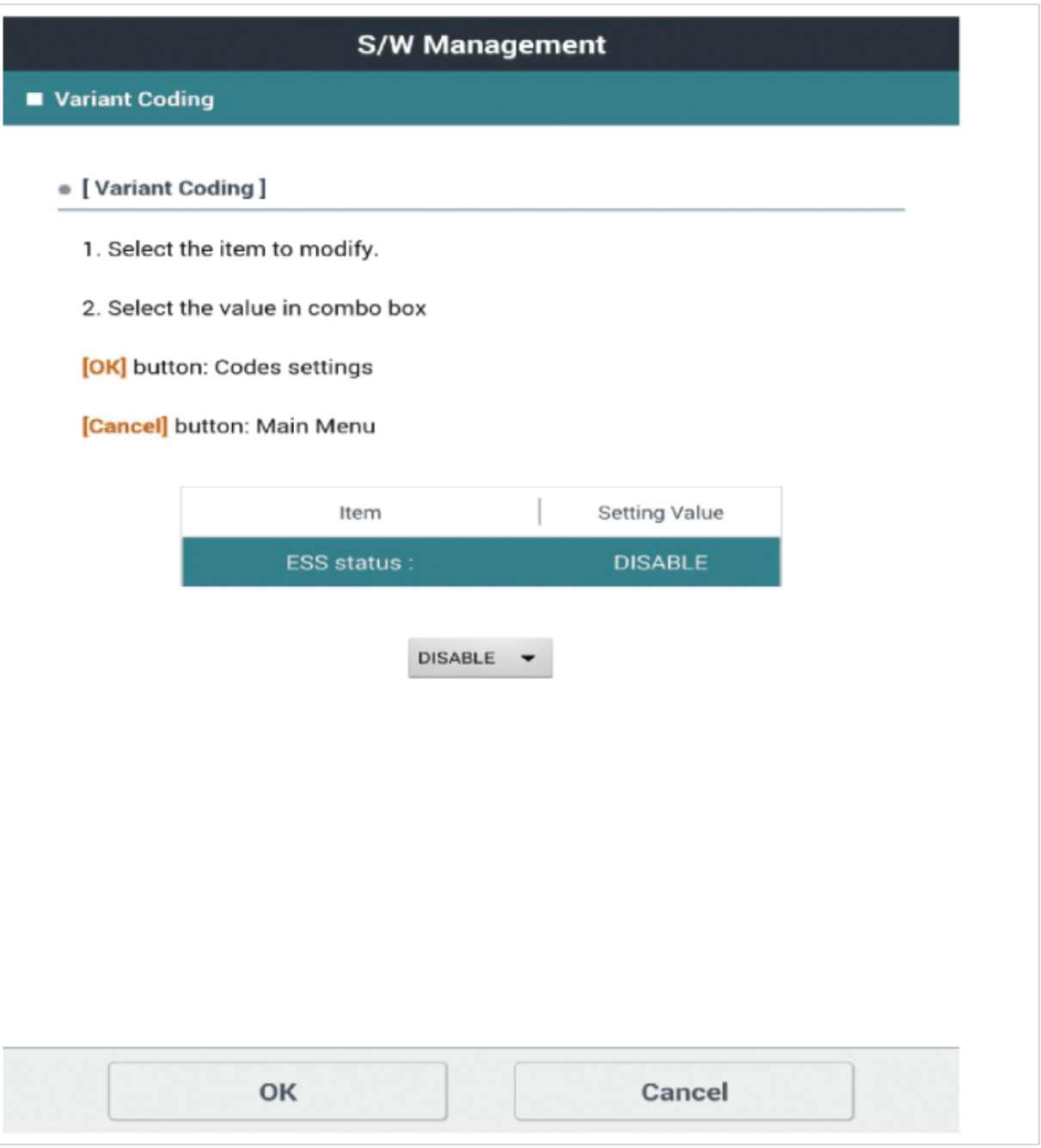
S/W Management

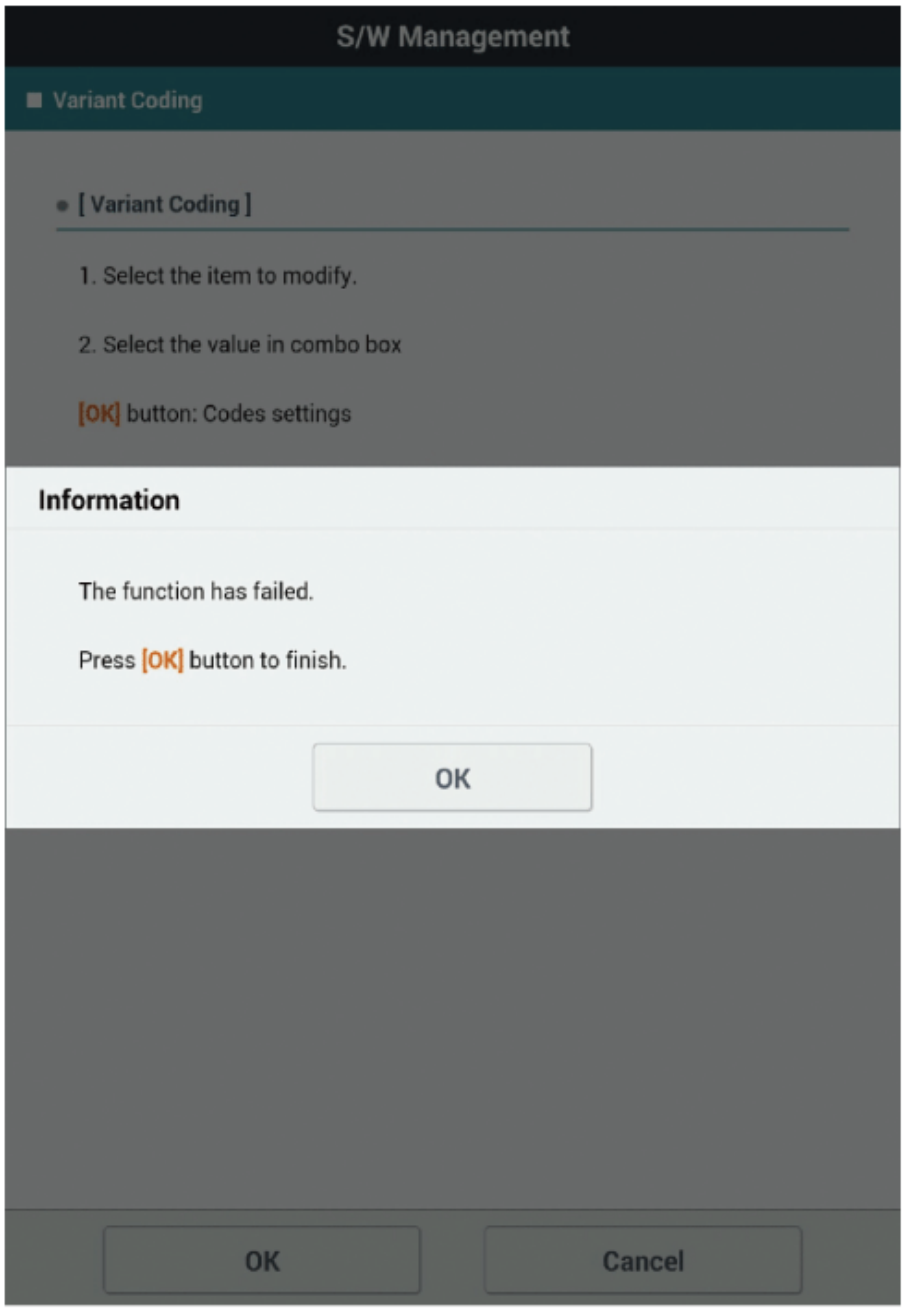
• **Variant Coding**

Purpose	This function resets variant code and input the new one in ESP. Perform this function when you replace ESP occur C1702 with MIL On.(ESP/EBD/ABS)
Enable Condition	1. Engine Off 2. Ignition Switch On
Concerned Component	Hydraulic Electric Control Unit(HECU)
Concerned DTC	C170204
Fail Safe	Warning Lamp On
Etc	-

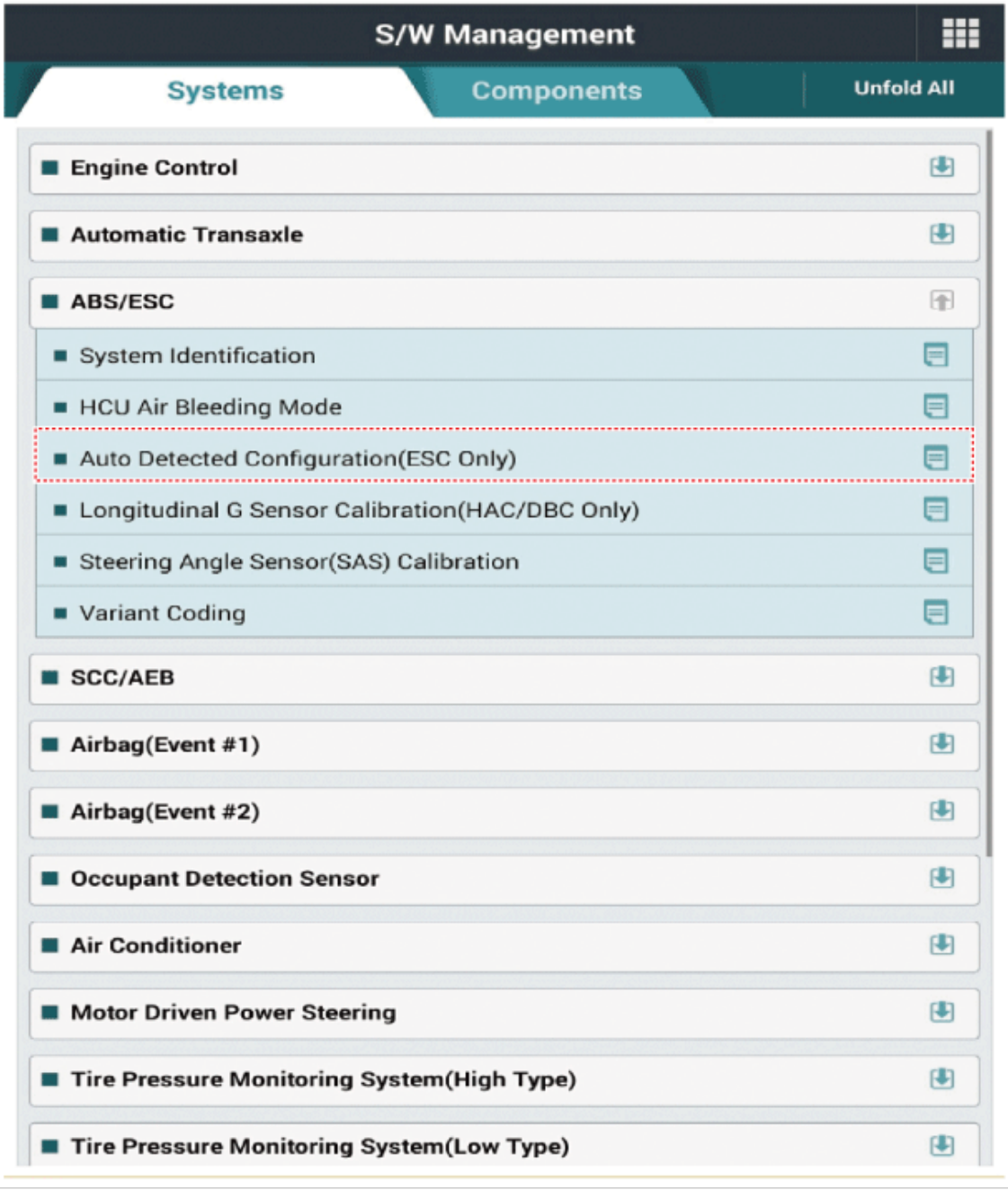
OK

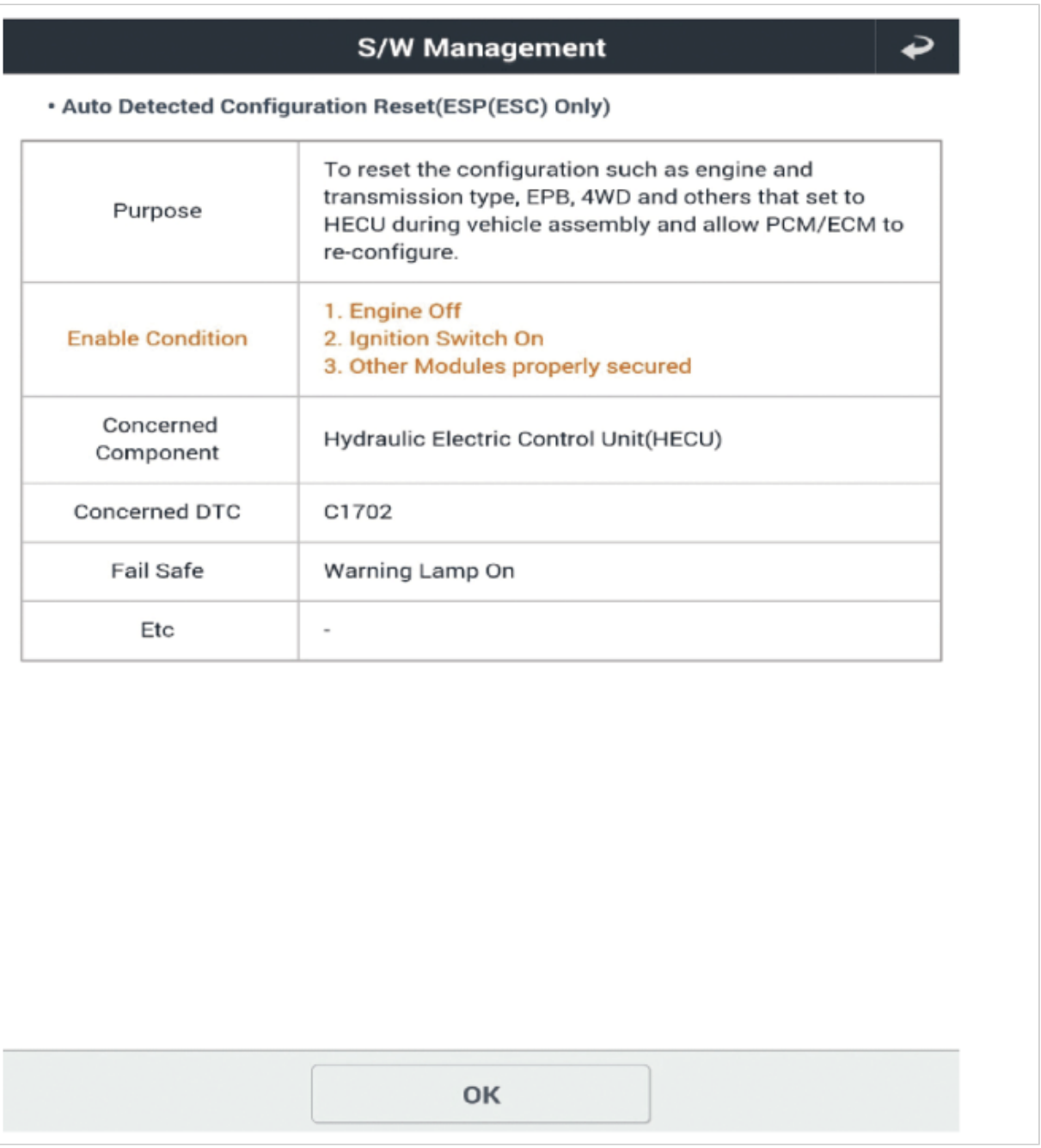

S/W Management
Variant Coding
[Variant Coding]
This function resets variant code and input the new
one in ESP. Perform this function when you replace ESP or
occur C1702 with MIL On.(ESP/EBD/ABS)
[Condition]
1. Ignition key on
2. Engine Stop
Press [OK] button, if you are ready
Press [CANCEL] button to exit.
OK
Cancel


S/W Management
Variant Coding
[Variant Coding]
1. Select the item to modify.
2. Select the value in combo box
[OK] button: Codes settings
[Cancel] button: Main Menu
Item
Setting Value
ESS status :
DISABLE
DISABLE
OK
Cancel

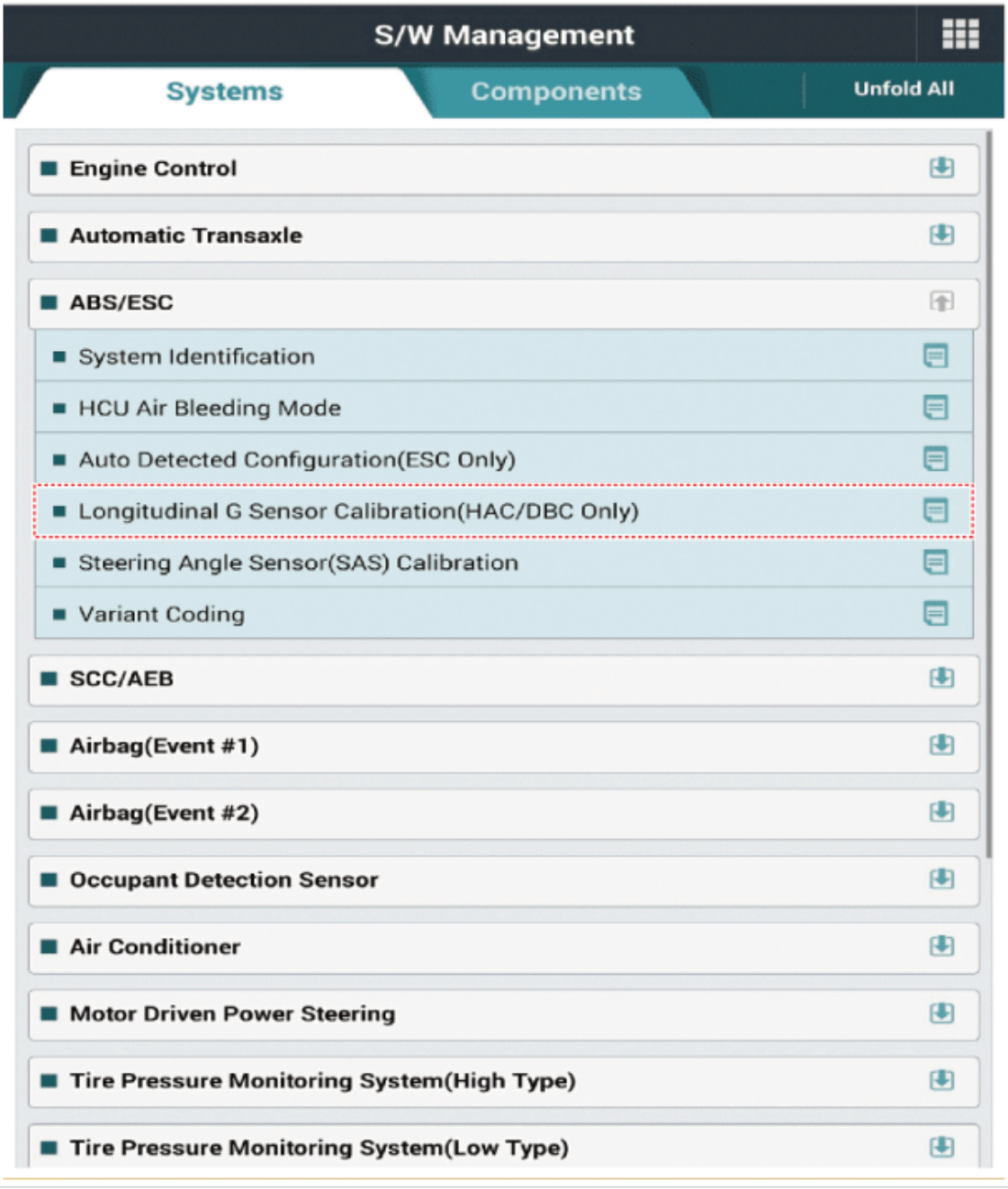


[Auto Detected Sensor Calibration]


S/W Management
Systems
Components
Unfold All
Engine Control
Automatic Transaxle
ABS/ESC
System Identification
HCU Air Bleeding Mode
Auto Detected Configuration(ESC Only)
Longitudinal G Sensor Calibration(HAC/DBC Only)
Steering Angle Sensor(SAS) Calibration
Variant Coding
SCC/AEB
Airbag(Event #1)
Airbag(Event #2)
Occupant Detection Sensor
Air Conditioner
Motor Driven Power Steering
Tire Pressure Monitoring System(High Type)
Tire Pressure Monitoring System(Low Type)



[Longitudinal G Sensor Calibration]


S/W Management
Systems
Components
Unfold All
Engine Control
Automatic Transaxle
ABS/ESC
System Identification
HCU Air Bleeding Mode
Auto Detected Configuration(ESC Only)
Longitudinal G Sensor Calibration(HAC/DBC Only)
Steering Angle Sensor(SAS) Calibration
Variant Coding
SCC/AEB
Airbag(Event #1)
Airbag(Event #2)
Occupant Detection Sensor
Air Conditioner
Motor Driven Power Steering
Tire Pressure Monitoring System(High Type)
Tire Pressure Monitoring System(Low Type)

S/W Management

• **Longitudinal G Sensor Calibration(HAC/DBC Only)**

Purpose	To reset sensor value of longitudinal G sensor.
Enable Condition	1. Engine Off 2. Ignition Switch On 3. HAC Condition : Enabled 4. Max. Incline Angle : within ±0.57 deg 5. Straighten Steering Wheel position 6. Normal Tire Pressure 7. No excessive load on vehicle
Concerned Component	Hydraulic Electric Control Unit(HECU), Longitudinal G Sensor
Concerned DTC	C1285
Fail Safe	Warning Lamp On
Etc	Must be performed after sensor or ECU is replaced.

OK