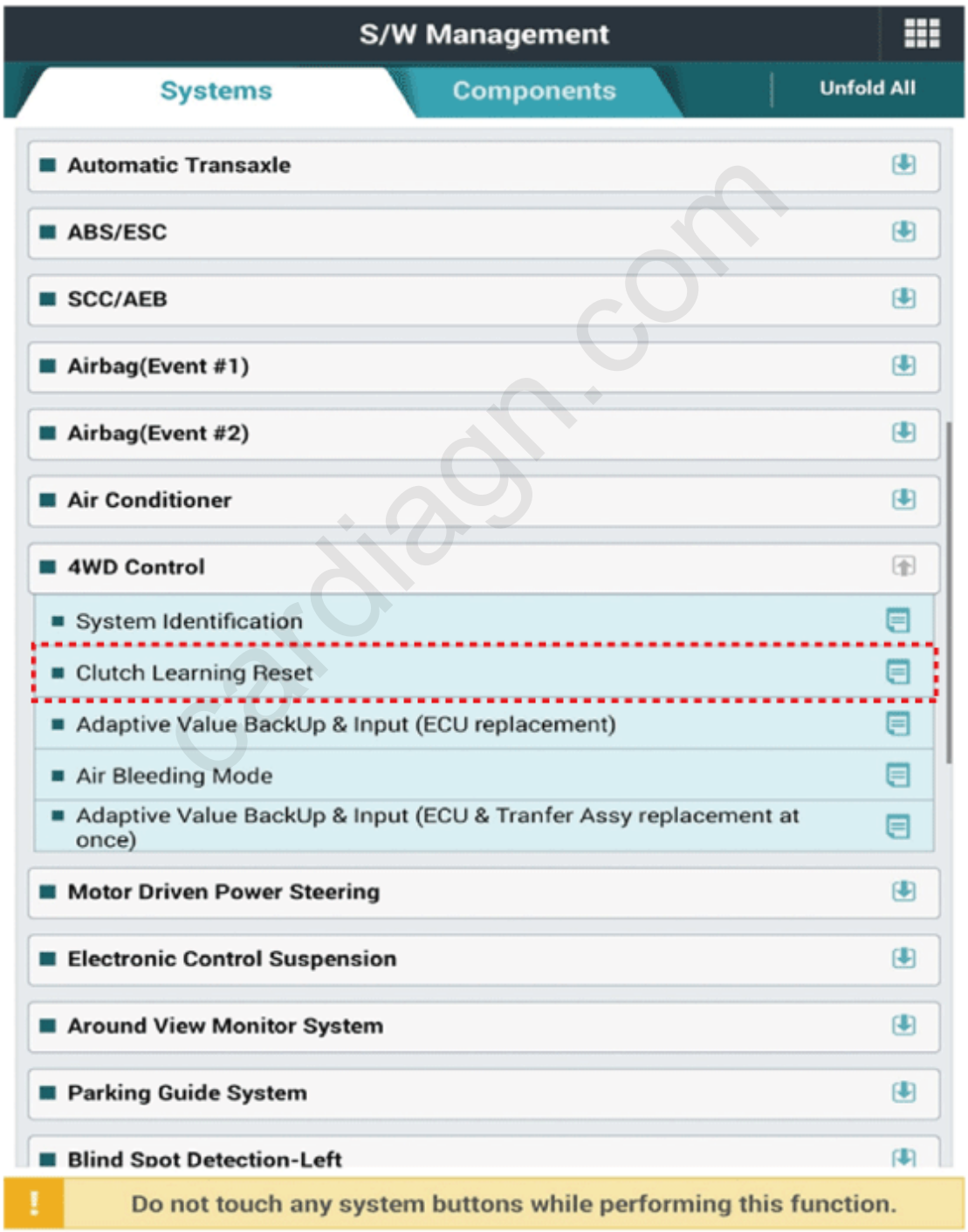
## ADJUSTMENT

### 1. Introduction

It is necessary to check and input the calibration data and vehicle variant code when the controller is replaced as the characteristics of the internal frictional materials (clutch pack) change due to driving.

### 2. Creation condition and calibration method

1. In case of replacing the transfer case (Coupling) assembly only.



English

## S/W Management

• **Clutch Learning Reset**

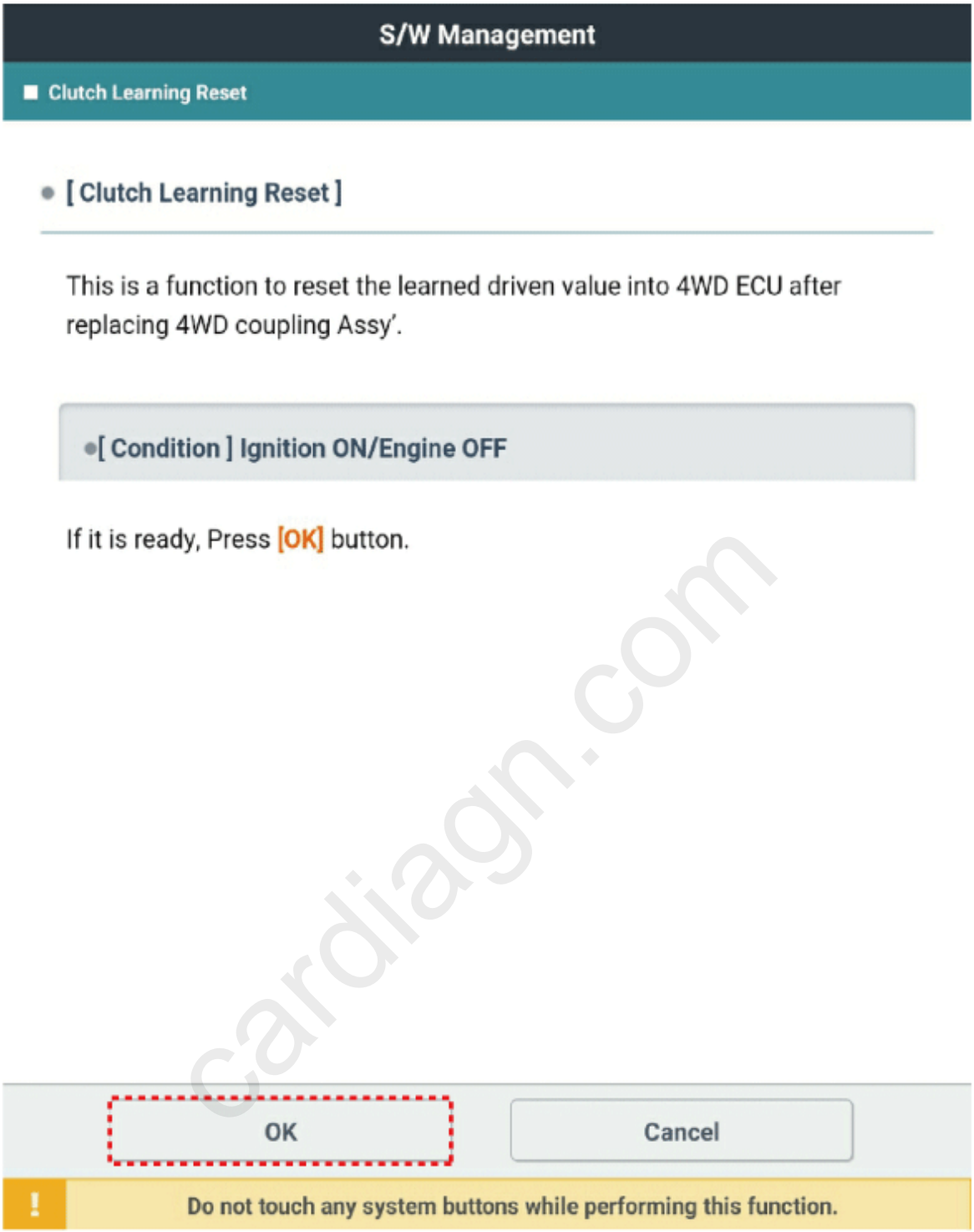
| | |
|---|---|
| Purpose | To reset adapted clutch wear value on the 4WD ECU after 4WD coupling assembly is replaced. |
| Enable Condition | 1.Engine Off<br>2.Ignition Switch On |
| Concerned Component | PCM/ECM, 4WD ECU |
| Concerned DTC | - |
| Fail Safe | - |
| Etc | - |



OK

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

English






2. In case of replacing the ECU only.


S/W Management
English
Systems
Components
Unfold All
Automatic Transaxle
ABS/ESC
SCC/AEB
Airbag(Event #1)
Airbag(Event #2)
Air Conditioner
4WD Control
System Identification
Clutch Learning Reset
Adaptive Value BackUp & Input (ECU replacement)
Air Bleeding Mode
Adaptive Value BackUp & Input (ECU & Tranfer Assy replacement at once)
Motor Driven Power Steering
Electronic Control Suspension
Around View Monitor System
Parking Guide System
Blind Spot Detection-Left
Do not touch any system buttons while performing this function.

English

## S/W Management

• **ECU Data Back-up & Writing**

| | |
|---|---|
| Purpose | To back up the adaptive data stored in old 4WD ECU, and write the backed-up data into new 4WD ECU. |
| Enable Condition | 1. Engine Off<br>2. Ignition Switch On<br>3. Shift Lever P<br>4. Vehicle speed : 0 |
| Concerned Component | 4WD ECU |
| Concerned DTC | |
| Fail Safe | - |
| Etc | Procedure<br>1. Back Up(Back up data from the old 4WD ECU to the Diagnostic equipment)<br>2. Exchange the old 4WD ECU to the new TCU<br>3. Input(Input the backed up data to the new 4WD ECU using Diagnostic equipment) |



OK

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

# S/W Management

English

## ■ Adaptive Value BackUp & Input (ECU replacement)

### • [ ECU learned data back-up & Writing(ECU exchange) ]

This function is used to back up the learned data stored in 'Old ECU' then write the backed-up data into 'New ECU'.

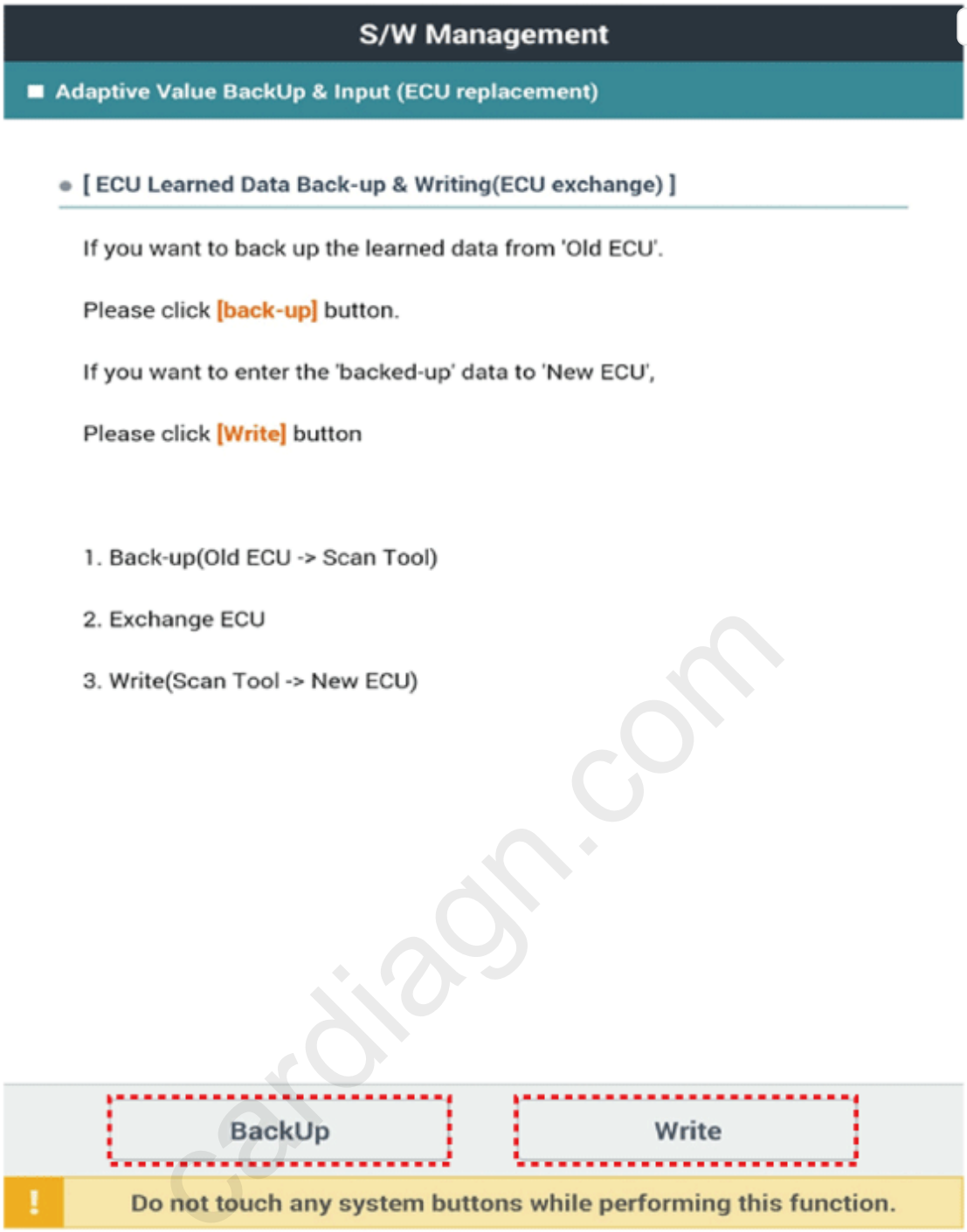
**•[ Condition ]**

1. IG ON
2. Shift Lever : P
3. Vehicle Speed : 0 Km/h
4. Engine Stop

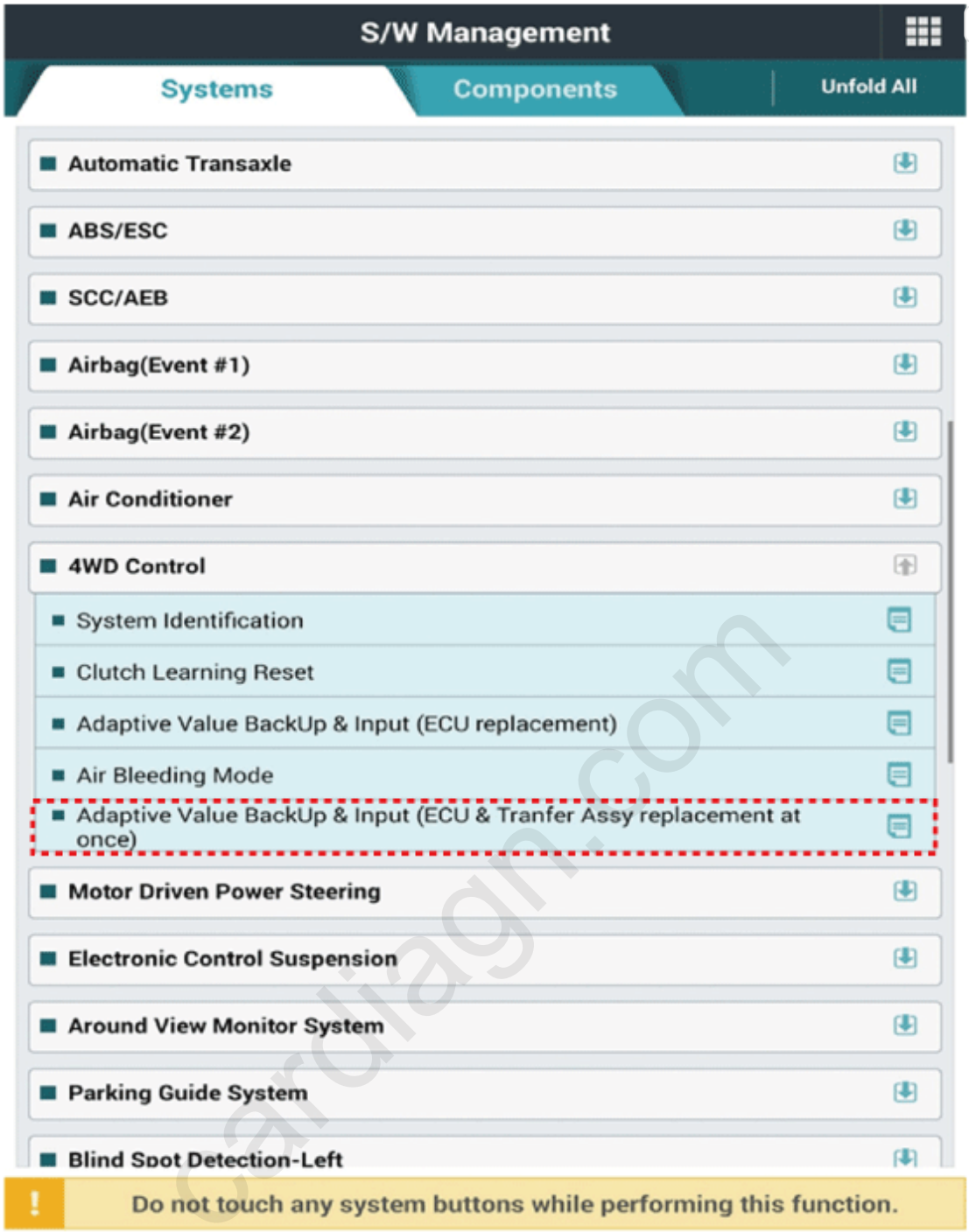


OK  Cancel

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




3. In case of replacing the transfer case and ECU.


S/W Management
English
Systems
Components
Unfold All
Automatic Transaxle
ABS/ESC
SCC/AEB
Airbag(Event #1)
Airbag(Event #2)
Air Conditioner
4WD Control
System Identification
Clutch Learning Reset
Adaptive Value BackUp & Input (ECU replacement)
Air Bleeding Mode
Adaptive Value BackUp & Input (ECU & Tranfer Assy replacement at once)
Motor Driven Power Steering
Electronic Control Suspension
Around View Monitor System
Parking Guide System
Blind Spot Detection-Left
Do not touch any system buttons while performing this function.

• ECU Data Back-up & Writing

| | |
|---|---|
| Purpose | To back up the adaptive data stored in old ECU, and write the backed-up data into new ECU. |
| Enable Condition | 1. Engine Off<br>2. Ignition Switch On<br>3. Shift Lever P<br>4. Vehicle speed : 0 |
| Concerned Component | ECU |
| Concerned DTC | |
| Fail Safe | - |
| Etc | Procedure<br>1. Back Up(Back up data from the old ECU to the Diagnostic equipment)<br>2. Exchange the old ECU to the new ECU<br>3. Input(Input the backed up data to the new ECU using Diagnostic equipment) |



OK

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

English

# S/W Management

## ■ Adaptive Value BackUp & Input (ECU & Tranfer Assy replacement at once)

### • [ Adaptive Value BackUp & Input (ECU & Tranfer Assy replacement at once) ]

This function is used to back up the learned data stored in 'Old ECU' then write the backed-up data into 'New ECU'.

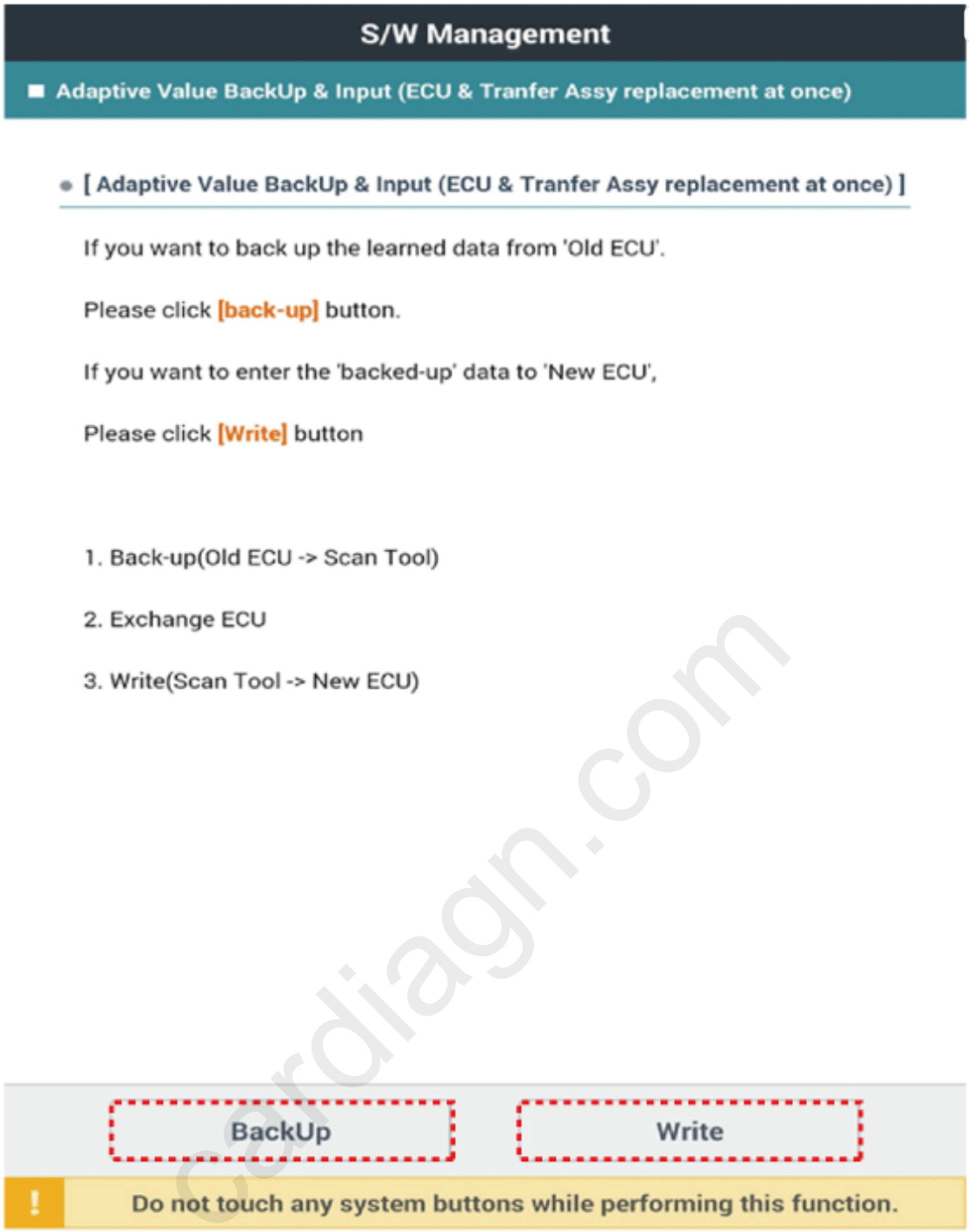
**•[ Condition ]**

1. IG ON
2. Shift Lever : P
3. Vehicle Speed : 0 Km/h
4. Engine Stop



OK  Cancel

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




4. Perform the following procedure in case of the appearance of failure code (P182900, P183600).


S/W Management
English
Systems
Components
Unfold All
Automatic Transaxle
ABS/ESC
SCC/AEB
Airbag(Event #1)
Airbag(Event #2)
Air Conditioner
4WD Control
System Identification
Clutch Learning Reset
Adaptive Value BackUp & Input (ECU replacement)
Air Bleeding Mode
Adaptive Value BackUp & Input (ECU & Tranfer Assy replacement at once)
Motor Driven Power Steering
Electronic Control Suspension
Around View Monitor System
Parking Guide System
Blind Spot Detection-Left
Do not touch any system buttons while performing this function.

English

• Air Bleeding Mode

| | |
|---|---|
| Purpose | This function discharges air from the oil when DTC P182900 or P183600 occurs. |
| Enable Condition | I. Engine Idle<br>2. Shift lever: P |
| Concerned Component | - |
| Concerned DTC | P182900, P183600 |
| Fail Safe | - |
| Etc | - |



OK

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