



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.

S/W Management

Unfold All

Systems	Components
■ 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.

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 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.

S/W Management

■ Clutch Learning Reset

● [Clutch Learning Reset]

This is a function to reset the learned driven value into 4WD ECU after replacing 4WD coupling Assy'.

●[Condition] Ignition ON/Engine OFF

If it is ready, Press **[OK]** button.

OK

Cancel



Do not touch any system buttons while performing this function.

2. In case of replacing the ECU only.

S/W Management

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)
[This item is highlighted with a red dashed box.]
 - 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.

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	<ol style="list-style-type: none"> 1. Engine Off 2. Ignition Switch On 3. Shift Lever P 4. Vehicle speed : 0
Concerned Component	4WD ECU
Concerned DTC	
Fail Safe	-
Etc	<p>Procedure</p> <ol style="list-style-type: none"> 1. Back Up(Back up data from the old 4WD ECU to the Diagnostic equipment) 2. Exchange the old 4WD ECU to the new TCU 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**■ 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.

S/W Management

■ Adaptive Value BackUp & Input (ECU replacement)

● [ECU Learned Data Back-up & Writing(ECU exchange)]

If you want to back up the learned data from 'Old ECU'.

Please click **[back-up]** button.

If you want to enter the 'backed-up' data to 'New ECU',

Please click **[Write]** button

1. Back-up(Old ECU -> Scan Tool)

2. Exchange ECU

3. Write(Scan Tool -> New ECU)

BackUp

Write



Do not touch any system buttons while performing this function.

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

S/W Management

Unfold All

Systems	Components
■ 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.

S/W Management



• 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 2. Ignition Switch On 3. Shift Lever P 4. Vehicle speed : 0
Concerned Component	ECU
Concerned DTC	
Fail Safe	-
Etc	Procedure 1. Back Up(Back up data from the old ECU to the Diagnostic equipment) 2. Exchange the old ECU to the new ECU 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.

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.

S/W Management

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

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

If you want to back up the learned data from 'Old ECU'.

Please click **[back-up]** button.

If you want to enter the 'backed-up' data to 'New ECU',

Please click **[Write]** button

1. Back-up(Old ECU -> Scan Tool)

2. Exchange ECU

3. Write(Scan Tool -> New ECU)

BackUp

Write



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

Unfold All

Systems	Components
■ 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.

S/W Management



• Air Bleeding Mode

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

OK



Do not touch any system buttons while performing this function.

S/W Management

■ Air Bleeding Mode

• [Air Bleeding]

This function discharges air from the oil when DTC P182900 or P183600 occurs.

• [Test Condition]

1. Engine at idle
2. Shift Lever - P

[OK] button : Continue to proceed.

[Cancel] button : End the function.

OK

Cancel



Do not touch any system buttons while performing this function.