



## Inspection

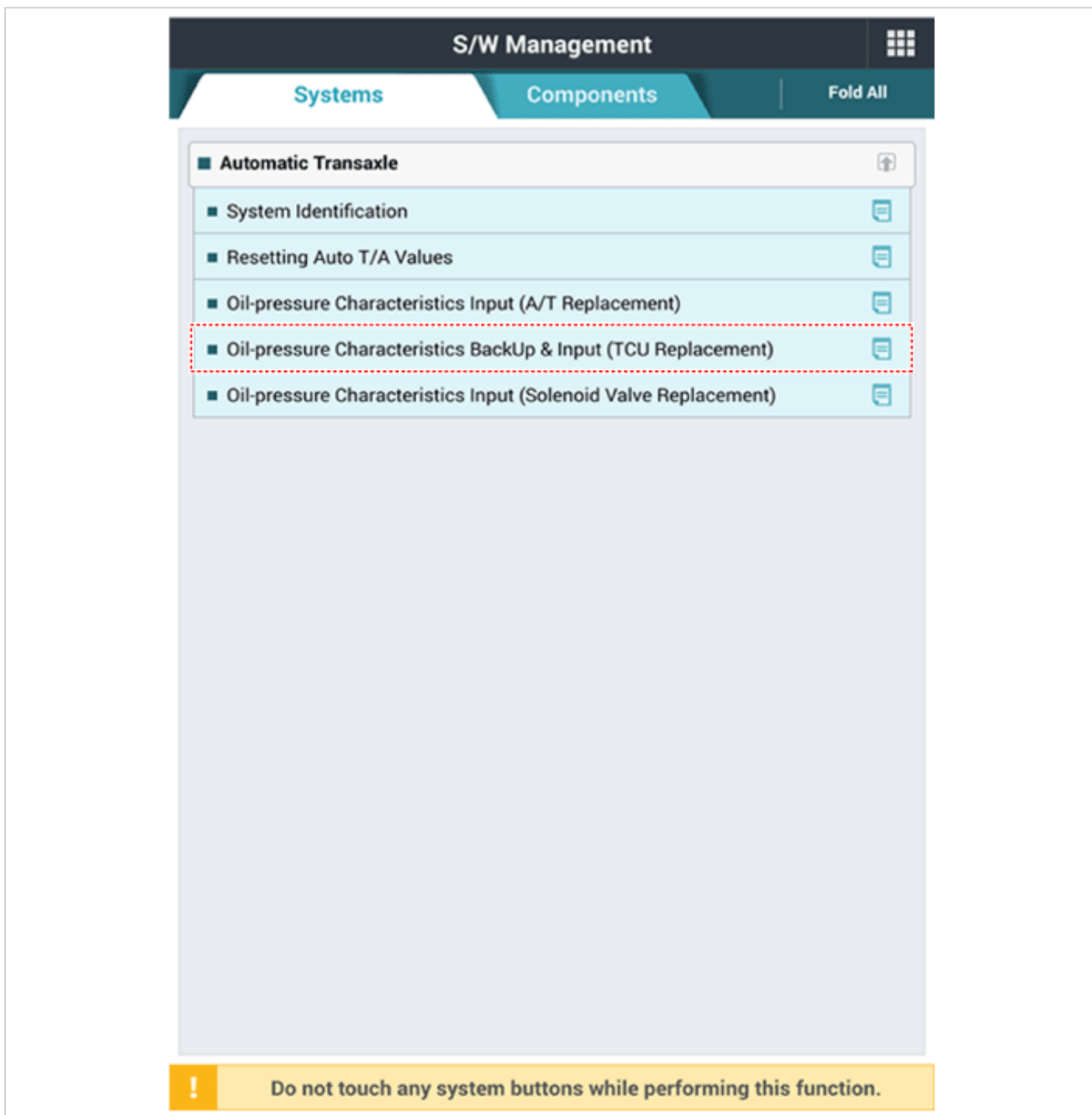
1. TCM ground circuit test : Measure the resistance between TCM and chassis ground. (Inspect the terminal connected to the chassis ground with the back of harness connector as the inspection point of TCM side.)

**Specification :** Below  $1\Omega$

2. TCM connector test : Disconnect the TCM connector and visually check the ground terminals on TCM side and harness side for bent pins or poor contact pressure.
3. If problem is not found in Steps 1 and 2, the TCM could be faulty.  
If so, replace the TCM with a new one, and then check the vehicle again. If the vehicle operates normally then the problem was likely with the TCM.
4. Reinspection of original TCM : Install the original TCM (probably broken) into a known-good vehicle and check the vehicle. If the problem occurs again, replace the original TCM with a new one.  
If the problem does not reoccur, this is an intermittent problem and other part may be faulty.

## Removal

1. Perform the oil pressure characteristics backup procedure using the KDS when replacing with a new TCM.  
(1) Click the "Oil-pressure Characteristics BackUp & Input (TCU Replacement)".



(2) Check the condition and then click the "OK".

S/W Management

■ Oil-pressure Characteristics BackUp & Input (TCU Replacement)

● [ Oil-pressure Characteristics BackUp & Input (TCU replacement) ]

This function is to back-up from old TCU (be exchanged) in Scan Tool and to input data to new TCU

●[ Condition ]

1. Ignition 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) Click the "BackUp".

## S/W Management

- Oil-pressure Characteristics BackUp & Input (TCU Replacement)

- [Oil-pressure Characteristics BackUp & Input (TCU replacement)]**

If you want to back up data from old TCU, press **[BACKUP]** button.


Or if you want to input them to new TCU, press **[INPUT]** button.

**[Procedures]**

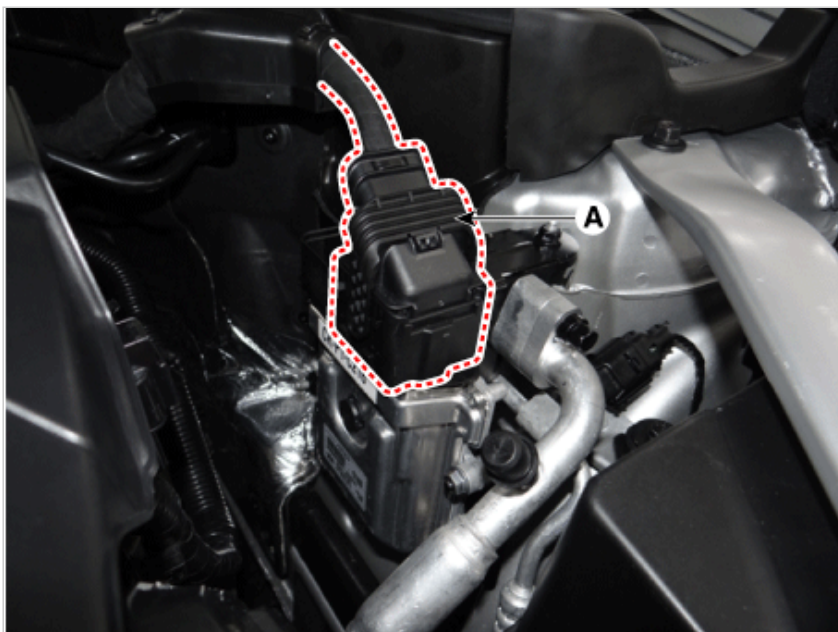
1. BACKUP (Back up data from old TCU to Scan Tool)
2. Exchange old TCU with new one
3. INPUT (Input the backed up data to new TCU with Scan Tool)

BackUp

Input

 Do not touch any system buttons while performing this function.

2. Disconnect the TCM connector (A).



3. Remove the TCM (A) after loosening the nuts.

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**Tightening torque:**

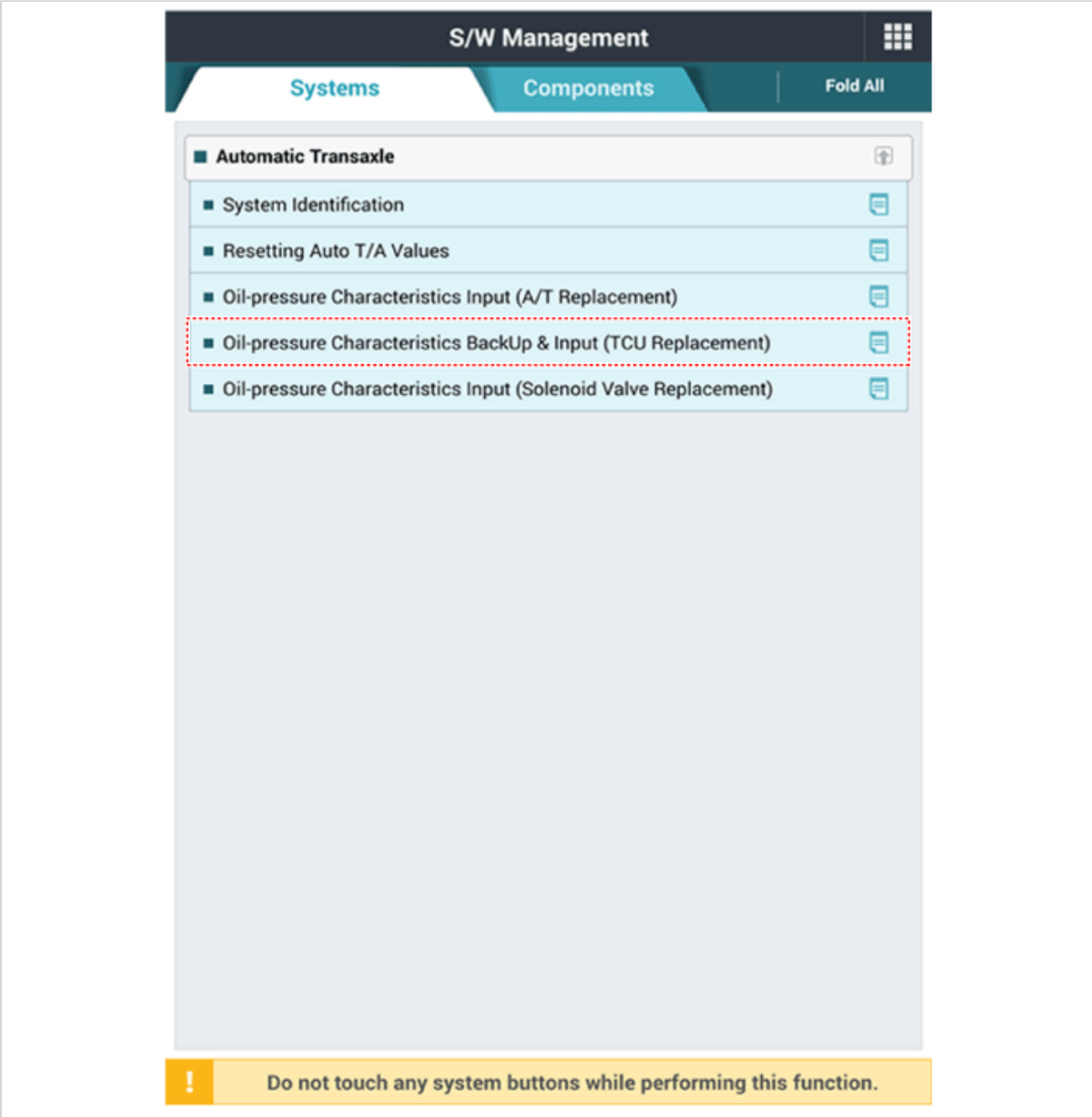
9.8 - 11.8 N·m (1.0 - 1.2 kgf·m, 7.2 - 8.7 lb·ft)

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### Installation

1. Install in the reverse order of removal.
2. Perform the oil pressure characteristics input procedure using the KDS when replacing with a new TCM.
  - (1) Click the "Oil-pressure Characteristics BackUp & Input (TCU Replacement)".



(2) Check the condition and then click the "OK".

**S/W Management**

■ Oil-pressure Characteristics BackUp & Input (TCU Replacement)

● [ Oil-pressure Characteristics BackUp & Input (TCU replacement) ]

This function is to back-up from old TCU (be exchanged) in Scan Tool and to input data to new TCU

●[ Condition ]

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

OKCancel

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

(3) Click the "Input".

## S/W Management

### ■ Oil-pressure Characteristics BackUp & Input (TCU Replacement)

- **[Oil-pressure Characteristics BackUp & Input (TCU replacement)]**

If you want to back up data from old TCU, press **[BACKUP]** button.


Or if you want to input them to new TCU, press **[INPUT]** button.

[Procedures]

1. BACKUP (Back up data from old TCU to Scan Tool)
2. Exchange old TCU with new one
3. INPUT (Input the backed up data to new TCU with Scan Tool)

BackUp

Input

 Do not touch any system buttons while performing this function.

(4) Click the "OK".




S/W Management

Oil-pressure Characteristics BackUp & Input (TCU Replacement)

[ Oil-pressure Characteristics BackUp & Input (TCU replacement) ]

This data is the Oil-pressure Characteristics of old TCU.

Do you want to back up to Scan Tool?

WAGRC1575062		2CI2	
	7776	5766	7878
	8878		
	7667	6667	7777
	7777		
	6665	4565	7788
	8778		
	7777	6FFF	9A50

OKCancel

!

Do not touch any system buttons while performing this function.

3. Perform the TCM adaptive values learning procedure.  
(Refer to Automatic Transmission Control System - "Repair procedures")