 HYUNDAI Technical Service Bulletin	GROUP AUTOMATIC TRANSMISSION	NUMBER 19-AT-010H
	DATE MAY 2019	MODEL ELANTRA (AD/ADa) ELANTRA GT (PD) SANTA FE SPORT (AN) KONA (OS) ACCENT (HC) VELOSTER (JS)
SUBJECT: OIL PRESSURE DATA TRANSFER USING GDS MOBILE (6-SPEED TRANSMISSION)		

This TSB supersedes TSB 16-AT-007 to add additional models.

Description:

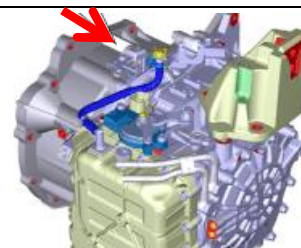
This bulletin provides a procedure to transfer pressure data to the ECU/TCU using **GDS Mobile**. This procedure is necessary to reduce the TCU learning time and improve the shift quality.

- **Before replacing an automatic transmission:** Input the data into the TCU using the GDS.
- **Before replacing an ECU/TCU:** Back up the oil pressure data from the old TCU into the GDS and then transfer the data to the new TCU.

NOTICE

Before installing the transmission, the technician should use GDS to transfer the pressure characteristics to the TCU. If not, take a photo or record all digits on the tag.

The oil pressure characteristics bar code location is shown below.



6-Speed

Applicable Vehicles:	2017~	Elantra Sedan (AD/ADa) 2.0L
	2018~	Elantra GT (PD) 2.0L
	2017~18	Santa Fe Sport (AN) 2.4L
	2018~	Kona (OS) 2.0L
	2018~	Accent (HC) 1.6L
	2019~	Veloster (JS) 2.0L

Warranty Information: Normal warranty applies.

NOTE: Labor operation for automatic transmission or TCU replacement includes the time for data transfer.

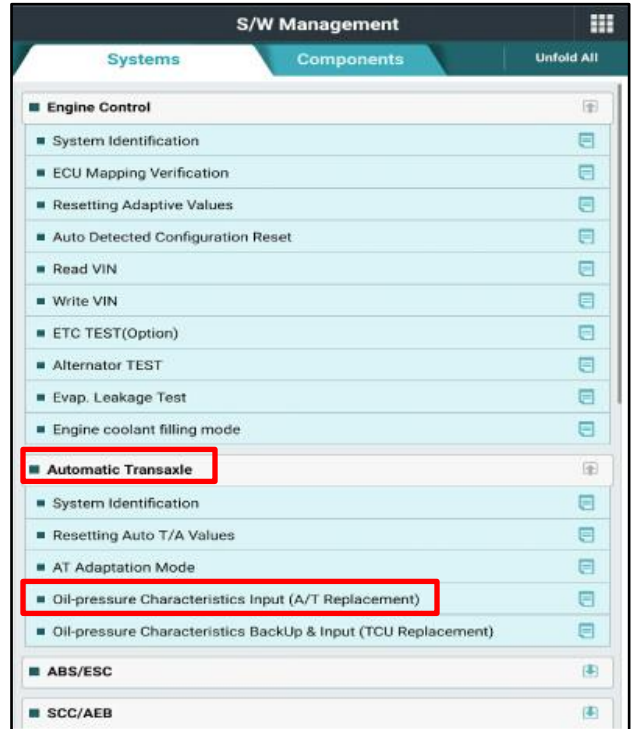
I. DATA INPUT – BEFORE REPLACING AUTOMATIC TRANSMISSION

Oil pressure data input procedure using GDS Mobile

1. From the GDS Mobile home screen, select **S/W Management**.

Select **Automatic Transaxle**.

Select **Oil pressure characteristics input (A/T Replacement)**. Select **OK** and follow the prompts.



2. Use the QR Reader to read the barcode tag on the transmission. Select **OK** and follow the prompts.

The GDS will transfer the data to the TCU.

If the QR Reader did not successfully read the barcode, select **MANUAL**. Go to Step 3.

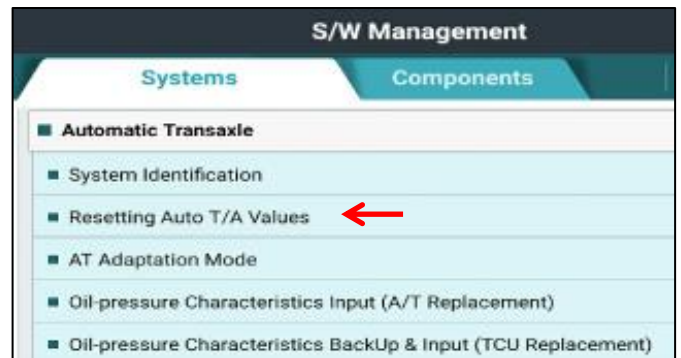


3. If the QR Reader did not successfully read the barcode, input the barcode data manually. Select **OK**.

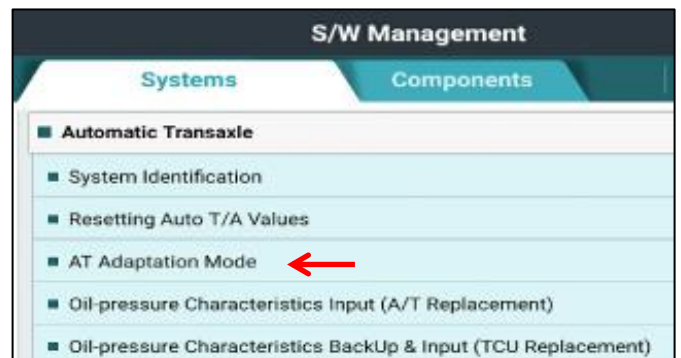
The GDS will indicate the oil pressure characteristics were input into the TCU. Select **OK**.



4. Check for DTC and delete any DTC.
5. Clear any DTCs in the Blue Link system according to instructions in TSB 12-BE-005-2.
6. Reset the automatic transmission adaptive values using GDS, **S/W Management** menu and **Resetting Auto T/A Values**. Follow the prompts on the GDS.



7. Relearn the adaptive values using GDS, **S/W Management** menu and **AT Adaptation Mode**. Follow the prompts on the GDS.



8. Drive the vehicle and confirm proper operation of the transmission.

II DATA INPUT - BEFORE REPLACING OR EXCHANGING AN ECU/TCU

Oil pressure data backup and input procedure using GDS Mobile

NOTICE

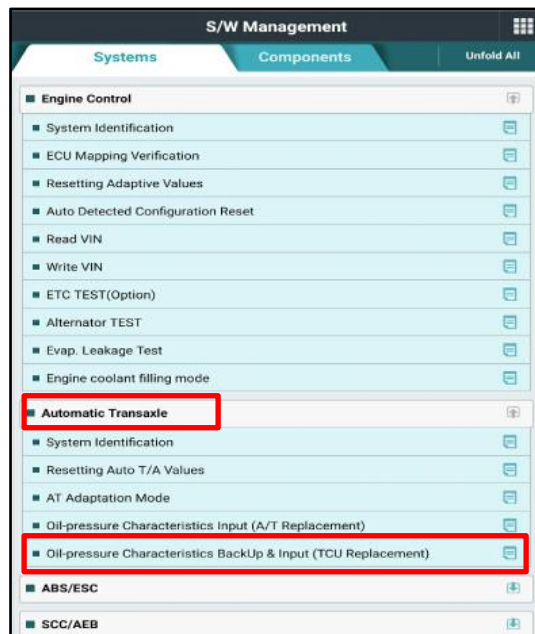
If the ECU/TCU has been replaced and the oil pressure data has not been input to the new TCU, the shift position indicator lamps on the instrument cluster or shift lever will blink with the ignition on and the engine off.

1. From the GDS Mobile home screen, select **S/W Management**.

Select **Automatic Transaxle**.

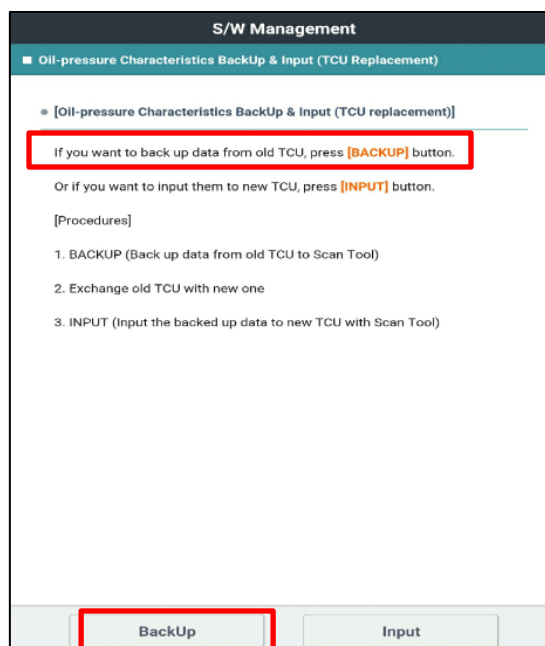
Select **Oil Pressure Characteristics BackUp & Input (TCU Replacement)**. Select **OK** and follow the prompts.

NOTE: If the screen indicates 'There is no S/W Management Guide', select **OK**.



2. The GDS will prompt you to input the pressure characteristics to the GDS. Select **Backup**.

The GDS will indicate the oil pressure characteristics backup was completed.



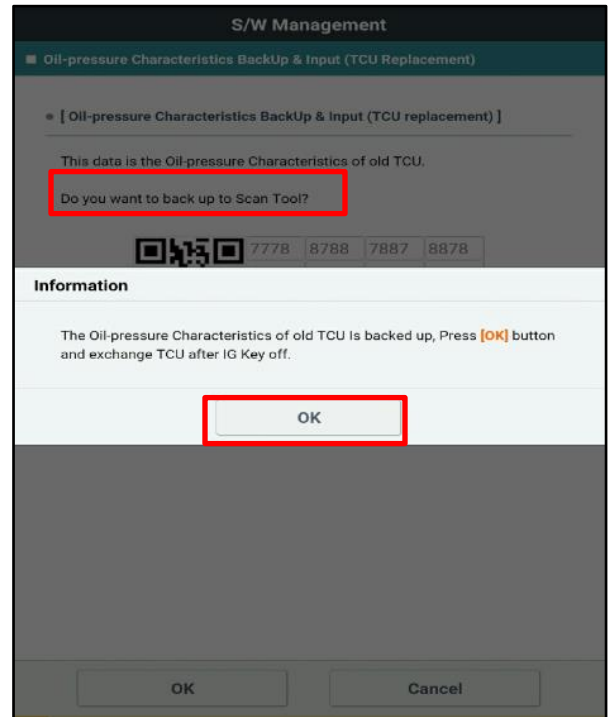
NOTICE

If the GDS cannot communicate with the old ECU/TCU, install the new ECU/TCU and go to Page 3, Step 3 and input the oil pressure data using Manual Input.

3. The GDS will prompt you to back up to the Scan Tool. Select **OK**.

The GDS will indicate the oil pressure characteristics of the old TCU was backed up. Select **OK**.

Turn the ignition off and install the new ECU/TCU.

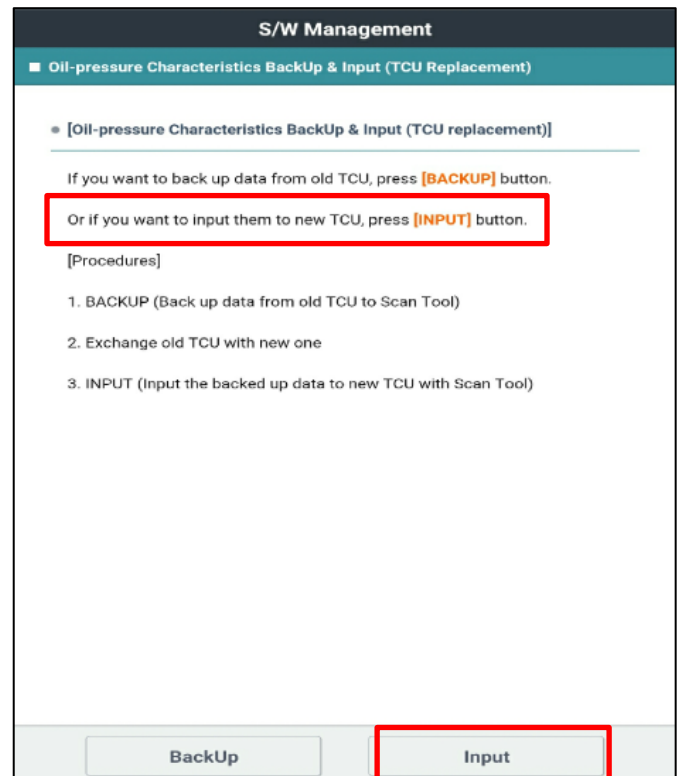


4. From the GDS Mobile home screen, select **S/W Management**.

Select **Automatic Transaxle**.

Select **Oil Pressure Characteristics BackUp & Input (TCU Replacement)**. Select **OK** and follow the prompts.

Select **Input**.

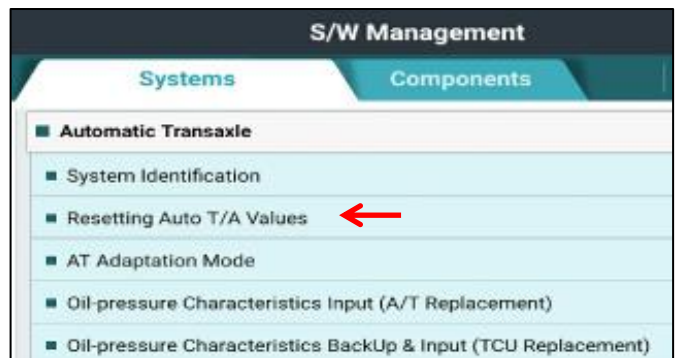


- 5. The GDS will prompt you to input the oil pressure characteristics to the new TCU. Select **OK**.

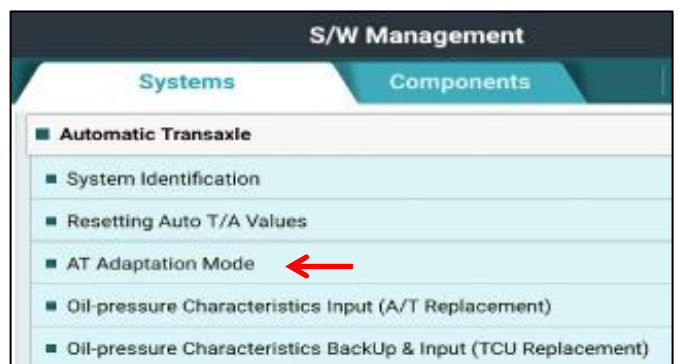
The GDS will indicate the oil pressure characteristics were input to the new TCU.



- 6. Check for DTC and delete any DTC.
- 7. Clear any DTCs in the BlueLink system according to instructions in TSB 12-BE-005-2.
- 8. Reset the automatic transmission adaptive values using GDS, **S/W Management** menu and **Resetting Auto T/A Values**. Follow the prompts on the GDS.



- 9. Relearn the adaptive values using GDS, **S/W Management** menu and **AT Adaptation Mode**. Follow the prompts on the GDS.



- 10. Drive the vehicle and confirm proper operation of the transmission.