		GROUP	NUMBER
		AUTOMATIC TRANSMISSION	19-AT-010H
	ΗΥΠΠΗΙ	DATE	MODEL
Technie	cal Service Bulletin	MAY 2019	ELANTRA (AD/ADa) ELANTRA GT (PD) SANTA FE SPORT (AN) KONA (OS) ACCENT (HC) VELOSTER (JS)
SUBJECT:	OIL PRESSURE DATA TRAN (6-SPEED TRA	sfer using gi .nsmission)	ds mobile

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 <u>GDS Mobile</u>. 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.

	5888	9889	899A	99A9
144 X X	8777	6877	8777	7877
- 496	6888	BFFF	78FF	7FF7
				FF32
RAFPBS5746	28		WF24	



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

	S/W Management	
Systems	Components	Unfold All
Engine Control		1
System Identification		Ξ
ECU Mapping Verificatio	n	Ξ
Resetting Adaptive Value	es	Ξ
Auto Detected Configura	tion Reset	
Read VIN		
Write VIN		Ξ
ETC TEST(Option)		•
Alternator TEST		E
Evap. Leakage Test		
Engine coolant filling mo	de	Ξ
Automatic Transaxle		Ð
 System Identification 		Ξ
Resetting Auto T/A Valu	es	e
AT Adaptation Mode		e
Oil-pressure Characteris	tics Input (A/T Replacement)	Ξ
 Oil-pressure Characteris 	tics BackUp & Input (TCU Replacement)	8
ABS/ESC		(#)
SCC/AEB		(B)

o, miningenien
il-pressure Characteristics Input (A/T Replacement)
[Oil-pressure Characteristics Input (A/T replacement)]
This function allows users to enter barcode information from QR code attached to the transmission and insert it to TCU when changing the transmission.
=[Condition]
1. Ignition Key On
2. Shift Lever : P
3. Vehicle Speed : 0 Km/h
4. Engine Stop

After pressing [OK] button, recognize the QR code attached to the transmission.

	YAEAR1312672 RL21
	7989 9488 7666 6667
TELEVISION IN CONTRACT	7777 B070 6789 68A7
	6777 8576 5564 7445
	2CE2
	and the second

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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.
- Reset the automatic transmission adaptive values using GDS, S/W Management menu and Resetting Auto T/A Values. Follow the prompts on the GDS.

 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.

	S/W Management	
Systems	Components	Unfold All
Engine Control		(
System Identification		E
ECU Mapping Verification	n	Ξ
Resetting Adaptive Value	15	Ξ
Auto Detected Configuration	tion Reset	E
Read VIN		•
Write VIN		8
ETC TEST(Option)		
Alternator TEST		
Evap. Leakage Test		
Engine coolant filling mo	de	Ξ
Automatic Transaxle		(p)
System Identification		
Resetting Auto T/A Value	es	
AT Adaptation Mode		e
Oil-pressure Characterist	tics Input (A/T Replacement)	
 Oil-pressure Characterist 	tics BackUp & Input (TCU Replacement)	8
ABS/ESC		(#)
SCC/AEB		(#)

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.

S/W Management
Oil-pressure Characteristics BackUp & Input (TCU Replacement)
• [Oll-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

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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.

S/W Management
Oil-pressure Characteristics BackUp & Input (TCU Replacement)
• [OII-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?
1 1 1 7778 8788 7887 8878
Information
The Oil-pressure Characteristics of old TCU Is backed up, Press [OK] button and exchange TCU after IG Key off.
OK Cancel

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.

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

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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.

	٤	6/W Ma	nagem	ent		
■ Oil-p	ressure Characteristics	BackUp 8	& Input (T	CU Repla	cement)	
• [C	Dil-pressure Characterist	ics Backl	Jp & Inpu	t (TCU re	placement	1
Th	nis data is the Oil-pressur	e Charact	teristics c	f old TCU	J	
th: Ch	at was backed up in Scar naracteristics to new TCU	n Tool. If y	you want	to input ti	his	
	<u>1,5</u> _	7778	8788	7887	8878	
		6666	9666	4455	7445	
		5644	6FFF	46FF	5FF5	
				1000	8147	
	KKGGCA309	198		4BD0		
	ок			с	ancel	

- 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.
- Reset the automatic transmission adaptive values using GDS, S/W Management menu and Resetting Auto T/A Values. Follow the prompts on the GDS.

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

	S/W Management
Systems	Components
Automatic Transaxle	
System Identification	
Resetting Auto T/A Va	lues 🔶
AT Adaptation Mode	
Oil-pressure Character	ristics Input (A/T Replacement)
 Oil-pressure Character 	ristics BackUp & Input (TCU Replacement
 Oil-pressure Character 	ristics BackUp & Input (TCU Replacement S/W Management
 Oil-pressure Character Systems 	ristics BackUp & Input (TCU Replacement S/W Management Components
Oil-pressure Character Systems Automatic Transaxle	ristics BackUp & Input (TCU Replacement S/W Management Components
Oil-pressure Character Systems Automatic Transaxle System Identification	ristics BackUp & Input (TCU Replacement S/W Management Components
Oil-pressure Character Systems Automatic Transaxle System Identification Resetting Auto T/A Va	ristics BackUp & Input (TCU Replacement S/W Management Components
Oil-pressure Character Systems Automatic Transaxle System Identification Resetting Auto T/A Va AT Adaptation Mode	ristics BackUp & Input (TCU Replacement S/W Management Components Iues
Oil-pressure Character Systems Automatic Transaxle System Identification Resetting Auto T/A Va AT Adaptation Mode Oil-pressure Character	Ives

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