		GROUP	NUMBER	
	YUNDAI NEW THINKING. NEW POSSIBILITIES.	AUTOMATIC TRANSMISSION	16-AT-007	
Technical Service Bulletin		DATE	MODEL	
		SEPTEMBER 2016	ELANTRA (AD/ADa) SANTA FE SPORT (AN) 2.4L	
SUBJECT: AUTOMATIC TRANSMISSION OIL PRESSURE DATA TRAI				
00202011	GDS MOBILE (6-SPEED TRANSMISSION)			

Description:

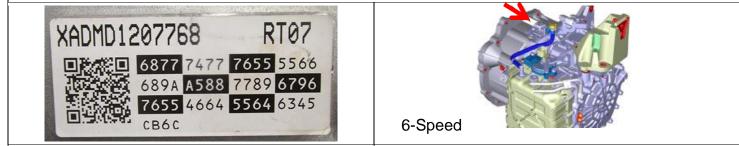
This bulletin provides a procedure to transfer pressure data to the PCM using <u>GDS Mobile.</u> This procedure is necessary to reduce the TCM learning time and improve the shift quality.

- After replacing an automatic transmission: Input the data into the TCM using the GDS.
- <u>After replacing a PCM</u>: Back up the oil pressure data from the old TCM into the GDS and then transfer the data to the new TCM.

NOTICE

Before installing the transmission, the technician should: (1) Use GDS to transfer the pressure characteristics to the TCU or (2) Take a photo of the tag or (3) Record all 68 digits on the tag. The pressure characteristics tag is difficult to read after installation.

The oil pressure characteristics bar code location is shown below.



Applicable Vehicles	2017~ Elantra (AD/ADa) 2.0L
	2017~ Santa Fe Sport (AN) 2.4L

Warranty Information: Normal warranty applies.

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

SUBJECT: AUTOMATIC TRANSMISSION OIL PRESSURE DATA TRANSFER

I. DATA INPUT – AFTER AUTOMATIC TRANSMISSION REPLACEMENT

Oil pressure data input procedure using GDS Mobile

- 1. From the GDS Mobile home screen, select **S/W Management**.
- 2. Select Automatic Transaxle.

Select **Oil pressure characteristics input (A/T Replacement).**

Select **OK** and follow the prompts.

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

3. 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 4.

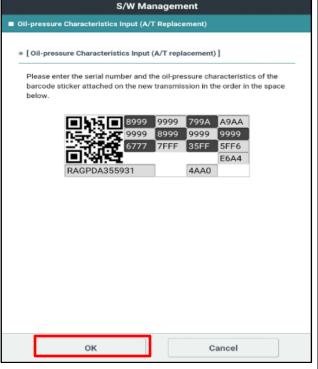
S/W Management	
Systems Components	Unfold All
Engine Control	(g)
System Identification	E
ECU Mapping Verification	
Resetting Adaptive Values	Ξ
Auto Detected Configuration Reset	
Read VIN	
= Write VIN	Ξ
ETC TEST(Option)	
Alternator TEST	B
Evap. Leakage Test	
Engine coolant filling mode	Ξ
Automatic Transaxle	(*)
System Identification	
Resetting Auto T/A Values	•
AT Adaptation Mode	
Oil-pressure Characteristics Input (A/T Replacement)	
Oil-pressure Characteristics BackUp & Input (TCU Replacement)	۲
ABS/ESC	(#)
SCC/AEB	(#)

S/W Management		
Oil-pressure Characteristics Input (A/	T Replacement)	
• [Oil-pressure Characteristics Input	(A/T replacement)]	
This function allows users to enter b attached to the transmission and ins transmission.		
 [Condition] 1. Ignition Key On 2. Shift Lever : P 3. Vehicle Speed : 0 Km/h 4. Engine Stop After pressing [OK] button, recognize transmission.	e the QR code attached to the	
	YAEAR1312072 RL21 7080 9.488 7666 6667 7777 8076 0789 08A7 6777 8576 5564 7445 2C2	
ок	Cancel	

SUBJECT: AUTOMATIC TRANSMISSION OIL PRESSURE DATA TRANSFER

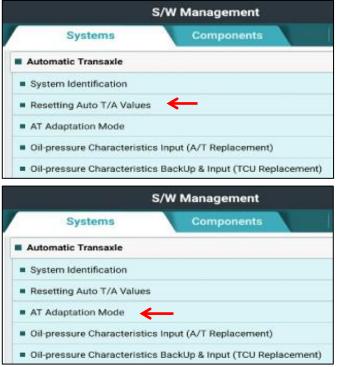
4. If the QR Reader did not successfully read the barcode, input the barcode data manually. Select **OK.**

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



- 5. Check for DTC in the ESC menu and SCC menu (if equipped) and delete any DTC.
- 6. 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.



II DATA INPUT - AFTER REPLACING OR EXCHANGING A PCM or TCM

Oil pressure data backup and input procedure using GDS Mobile

NOTICE

If the PCM has been replaced and the oil pressure data has not been input to the new TCM, 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	(g)
System Identification	E
 ECU Mapping Verification 	Ξ
 Resetting Adaptive Values 	•
Auto Detected Configuration Reset	
Read VIN	
Write VIN	Ξ
ETC TEST(Option)	
Alternator TEST	E
Evap. Leakage Test	
Engine coolant filling mode	e
Automatic Transaxie	(P)
System Identification	
 Resetting Auto T/A Values 	
AT Adaptation Mode	e
 Oil-pressure Characteristics Input (A/T Replacement) 	Ξ
Oil-pressure Characteristics BackUp & Input (TCU Replacement)	Ξ
ABS/ESC	(#)
SCC/AEB	(4)

2. The GDS prompts 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)		
• [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		

NOTICE

If the GDS cannot communicate with the old TCM, install the new TCM and go to Pages 2~3 and input the oil pressure data using Manual Input.

3. The GDS prompts 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 TCU.

S/W Management
Oil-pressure Characteristics BackUp & Input (TCU Replacement)
[OII-pressure Characteristics BackUp & Input (TCU replacement)] This data is the OII-pressure Characteristics of old TCU. Do you want to back up to Scan Tool? Do you want to back up to Scan Tool? The OII-pressure Characteristics of old TCU Is backed up, Press [OK] button and exchange TCU after IG Key off.
ОК
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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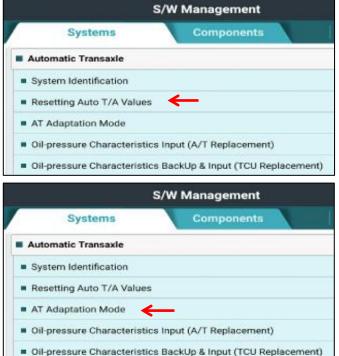
5. The GDS prompts you to input the oil pressure characteristics to the new TCU. Select **OK**.

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



- 6. Check for DTC in the ESC menu and SCC menu (if equipped) 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.



10. Confirm proper operation of the vehicle.