



GROUP
TRA

MODEL
**Multiple Models
with A8TR1 / GEN2 A/T
See table below**

NUMBER
067

DATE
December 2017

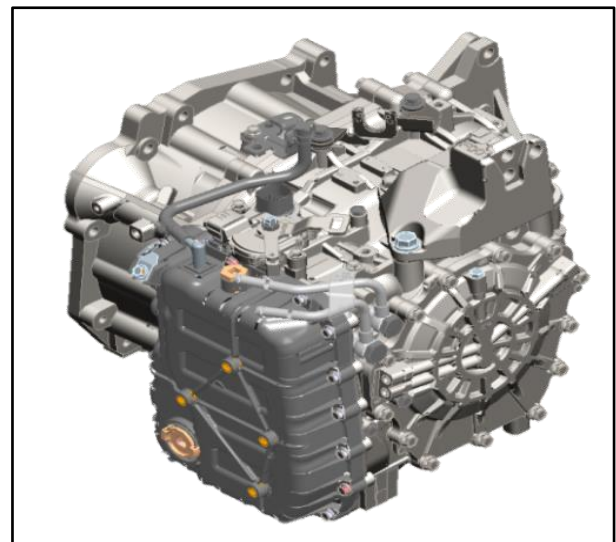
TECHNICAL SERVICE BULLETIN

SUBJECT: AUTOMATIC TRANSMISSION OIL PRESSURE
CHARACTERISTIC VALUES DATA TRANSFER

This bulletin provides information regarding data transfer of automatic transmission (A/T) characteristic values on 2015MY-2018MY K900 (KH) vehicles equipped with A8TR1 8-speed A/T and 2017MY~ Sportage (QL), Forte (YDm), and Cadenza (YG) vehicles equipped with the GEN2 Type (A6MF2-2 6-speed / A8LF1 8-speed) A/T. The type of solenoid valve used to control gear shifts changed from indirect to direct control type to reduce oil capacity and improve fuel efficiency.

Due to manufacturing tolerances, hydraulic pressure characteristics of transmission and solenoids can vary. During assembly, these characteristics are stored in the TCU, and compensated for to avoid shift shock or slip (delay). The hydraulic pressure characteristics are then also recorded in a bar code format and attached to the transmission with a sticker, for reference during Service/Repair. Whenever the TCU and/or A/T are replaced, the bar code values must be entered into the TCU using the KDS, or shift shock or slip (delay) may occur during gear shifts. Follow the procedure outlined in this bulletin to input the bar code values in the newly replaced TCU and/or A/T.

Applicable GEN 2 / A8TR1 type A/T vehicles:	2015MY - 2018MY K900 (KH)
	2017MY ~ Cadenza (YG)
	2017MY ~ Sportage (QL)
	2017MY ~ Forte (YDm)



6-Speed Automatic Transmission

* NOTICE

Failure to input the oil pressure characteristic values will cause the shift indicator in the instrument cluster to blink.

File Under: <Transmission>

Circulate To: General Manager Service Manager Parts Manager
 Service Advisors Technicians Body Shop Manager Fleet Repair

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Service Procedure:

After replacing the TCU and/or transmission with a new one, perform the following actions in accordance to the table below.

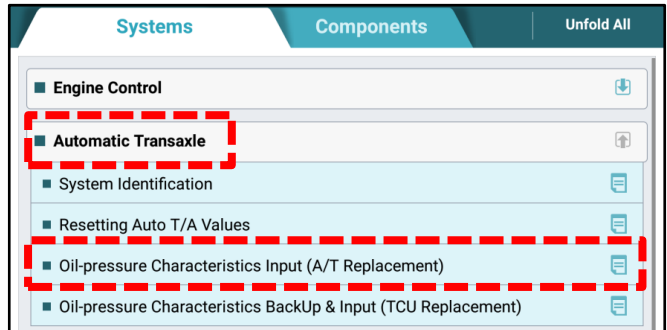
Repair Procedures	Transmission Replacement	TCU Replacement	Transmission & TCU Replacement
Resetting Auto T/A Values	☒		
Oil-pressure Characteristics Input (A/T Replacement)	☒		☒
Oil-pressure Characteristics BackUp & Input (TCU Replacement)		☒	

*** TIP**

When the replacement transmission is unboxed from its shipping container, use the camera on the KDS to take a picture of the QR tag located on top of the transmission. This allows for easy retrieval of the QR tag numbers in the event the QR reader has difficulties reading the QR tag in Step 2.

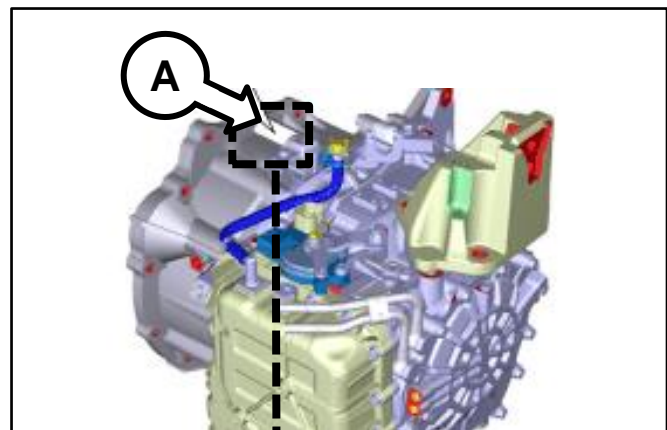
Data Input Procedure (After A/T Replacement):

- From the KDS home screen, select **S/W Management** → **Automatic Transaxle** → **Oil Pressure Characteristics Input (A/T Replacement)** and select **OK** when all enabling conditions have been met.



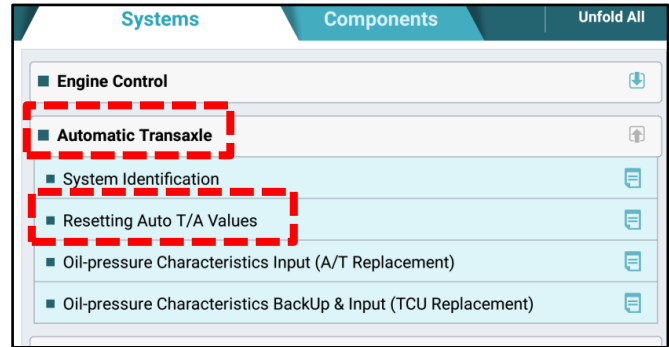
- Select **OK** to access the QR reader and scan the QR tag (A) - Gen 2 Sample shown. On A8TR1, the sticker is located on the left side of the transmission case. Once successfully scanned, the KDS will transfer the data to the TCU.

NOTE: If the KDS cannot successfully read the QR code, manually input all 68 digits from left to right on the QR tag.



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- Reset and relearn the automatic transmission adaptive values using the KDS, select **S/W Management** → **Automatic Transaxle** → **Resetting Auto T/A Values**. Follow the KDS prompts.

**Oil Pressure Data Backup & Input Procedure (TCU Replacement):**

- From the KDS home screen, select **S/W Management** → **Automatic Transaxle** → **Oil Pressure Characteristics Backup & Input (TCU Replacement)**.
- Follow the KDS prompts for **TCU Backup & Input** to complete this procedure.
- Confirm shift indicator is not blinking.

