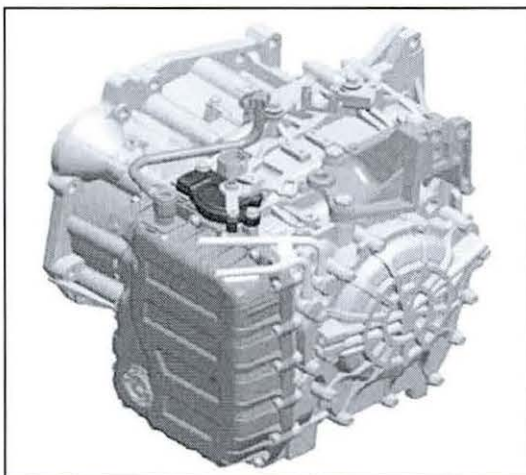


	GROUP TRANS	MODEL All Models w/6-speed A/T
	NUMBER 049	DATE May 2013
TECHNICAL SERVICE BULLETIN		
SUBJECT: 6-SPEED A/T TRANSMISSION ADAPTIVE VALUES RESET/RELEARN		

This bulletin provides the procedures necessary to reset and relearn the adaptive values after transmission replacement or reprogramming/replacement of the ECM/PCM. After the adaptive values are reset, the transmission computer adaptive values must be relearned by driving in a precise manner to "teach" the computer the proper solenoid duty and line pressure for the new transmission/computer combination.



AFFECTED MODELS:

YEAR	Model	Engine
2011>	Optima (TF & QF)	2.0L Theta II & 2.4L Theta II
2011>	Optima Hybrid (TF HEV)	2.4L Theta II (Hybrid)
2011>	Sorento (XMa)	2.4L Theta II & 3.5L Lambda II
2012>	Soul (AM)	1.6L Gamma GDI & 2.0L Nu
2011>	Sportage (SL)	2.0L Theta II & 2.4L Theta II
2011>	Sedona (VQ)	3.5L Lambda II
2011>	Forte (TD) Sedan, Koup & 5-Door	2.0L Theta II & 2.4L Theta II
2012>	Rio (UB) 4 and 5 door	1.6L Gamma GDI
2014>	Forte (YD)	1.8L Nu MPI & 2.0L Nu GDI

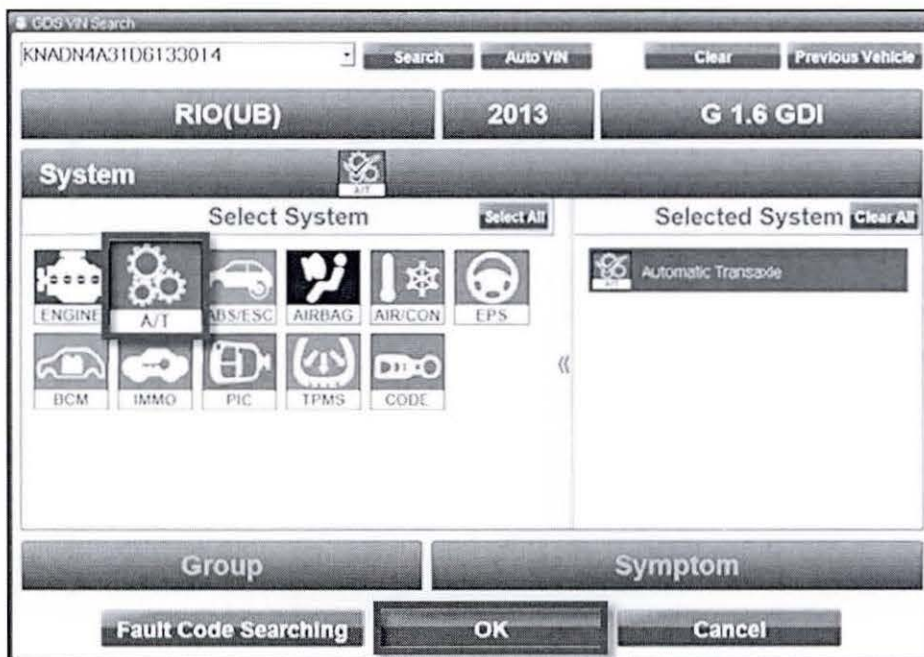
File Under: <Transmission>

Circulate To: ☒ General Manager ☒ Service Manager ☒ Parts Manager
☒ Service Advisor(s) ☒ Technician(s) ☒ Body Shop Manager ☒ Fleet Repair

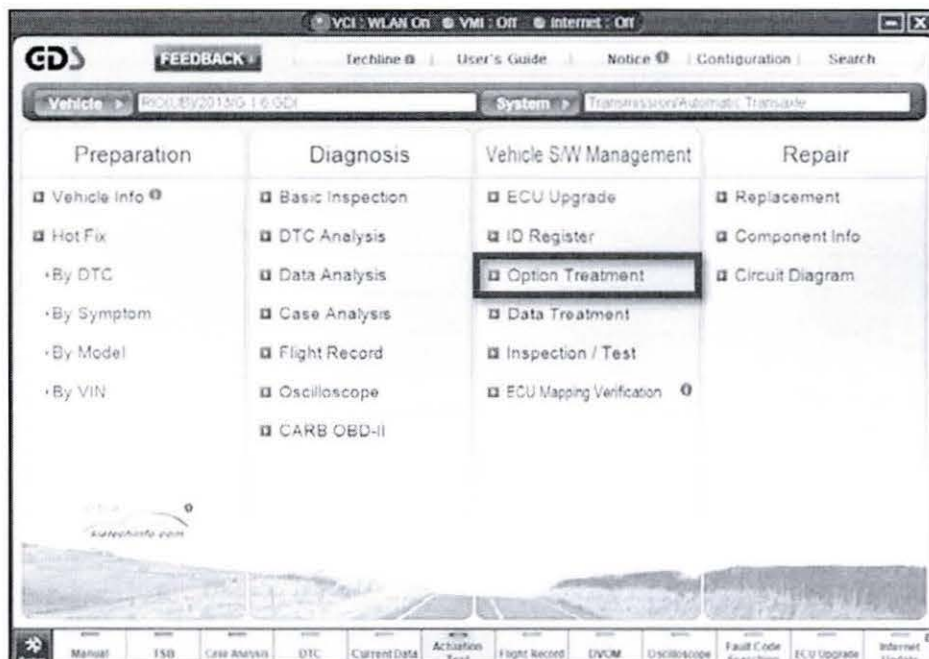
SUBJECT: 6-SPEED A/T TRANSMISSION ADAPTIVE VALUES RESET / RELEARN

I. RESET PCM/TCM ADAPTIVE VALUES USING GDS:

1. Connect a GDS unit.
Select **VIN**, then select **A/T** menu.
Select **"OK"**.

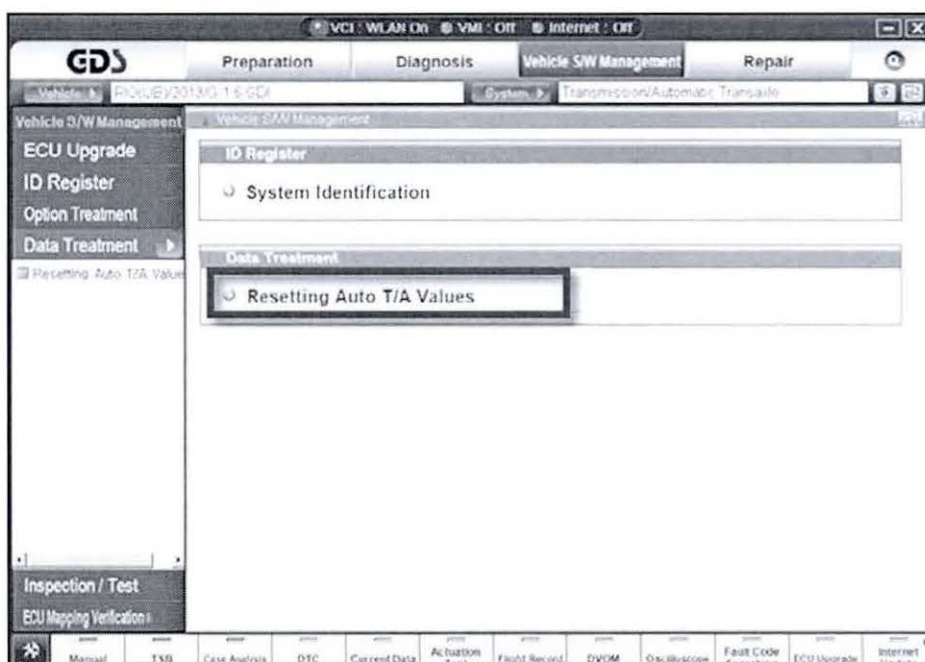


2. At the main screen, select **"Option Treatment"**.



SUBJECT: 6-SPEED A/T TRANSMISSION ADAPTIVE VALUES RESET / RELEARN

3. Select **"Resetting Auto T/A Values"**.



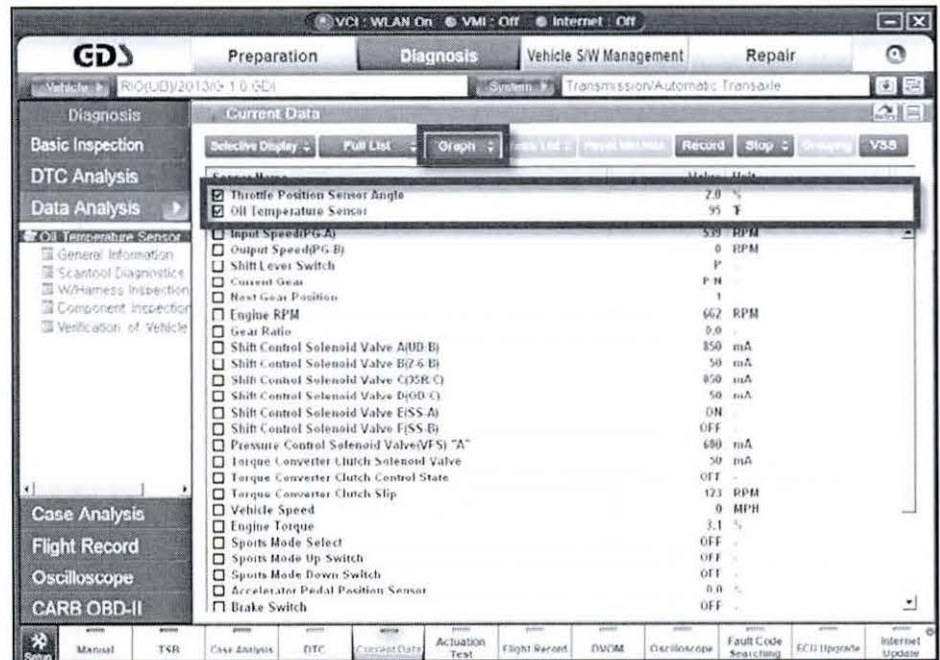
4. Follow the on-screen instructions, then select **"Reset"**.



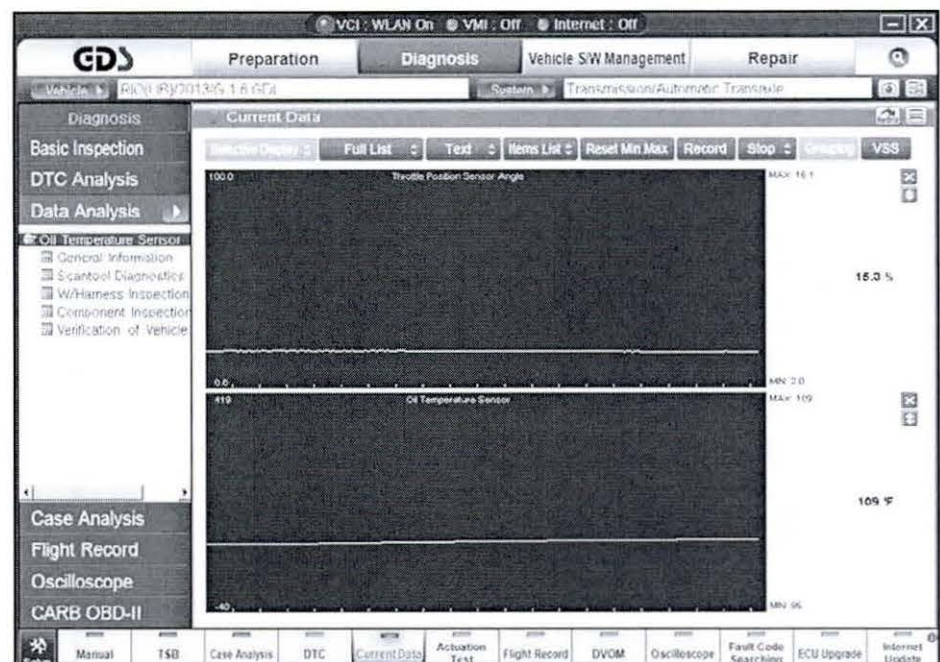
SUBJECT: 6-SPEED A/T TRANSMISSION ADAPTIVE VALUES RESET / RELEARN

II. RELEARN ADAPTIVE VALUES

1. Select the **Diagnosis Tab**, then open **Current Data**.
2. Select the check boxes for **Throttle Position Sensor** and **Oil Temperature Sensor**.
3. Select the **Graph Tab**.



4. Use the **Graph Screen** to monitor **Throttle Position Sensor Angle** and **Oil Temperature Sensor** data while performing the **Dynamic Test** (Step 5).



SUBJECT: 6-SPEED A/T TRANSMISSION ADAPTIVE VALUES RESET / RELEARN
5. Dynamic Test

- Request an assistant to monitor the graph data on GDS (Step 4).
- **Drive the vehicle until the ATF temperature is between 86°F ~ 203°F (30°C ~ 95°C)**
- **Ensure that traffic conditions are safe to conduct this portion of the Dynamic Test.** Ensure that vehicle is ***not*** in Sport Mode. Accelerate from a stop in "D" ("Drive" mode), and maintain 10~20% APS while the transmission shifts through gears **1-2-3-4-5-6**. Next, decelerate slowly to a stop without applying the brakes or with very little brake application, **only when safe to do so.**

Repeat this step a total of 5 times.

***NOTICE**

Follow these safety precautions and criteria while conducting the Dynamic Test:

- Select a route that will allow you to **SAFELY** perform the procedure, without interfering with traffic.
- Avoid abruptly lifting off or heavily depressing the throttle pedal while the transmission shifts through the gears.
- Avoid heavy brake application, as this may result in an incorrectly performed relearn procedure.

6. Static Test

- **Safely** bring vehicle to a stop. With the engine and transmission still at full operating temperature, the gear selector in Drive ("D"), confirm idle speed is below 700 RPM, then perform the following sequence:

Move shift lever to "P", then to "R"→"N"→"D"→"N"→"R"→"P", remaining in each gear for 3~5 seconds. **Repeat this sequence a total of 5 times.**

7. Confirm the transmission shifts smoothly prior to releasing the vehicle to the customer.

WARRANTY CLAIM INFORMATION:
***NOTICE**

Use Op Code 95440A00 (0.6 M/H) with the transmission replacement or ECM/PCM replacement / reflash claim.