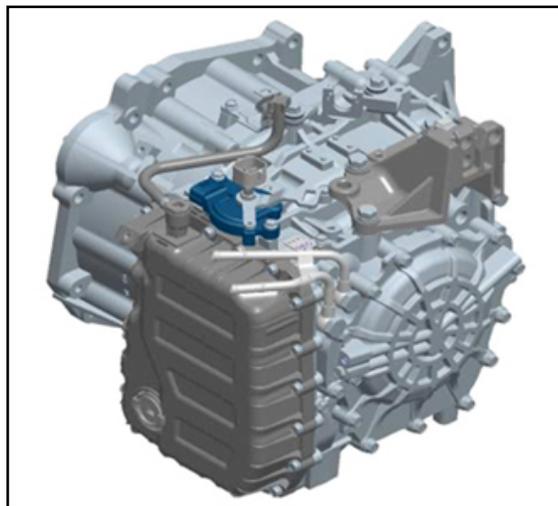# TECHNICAL SERVICE BULLETIN

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: [X] **General Manager**   [X] **Service Manager**   [X] **Parts Manager**

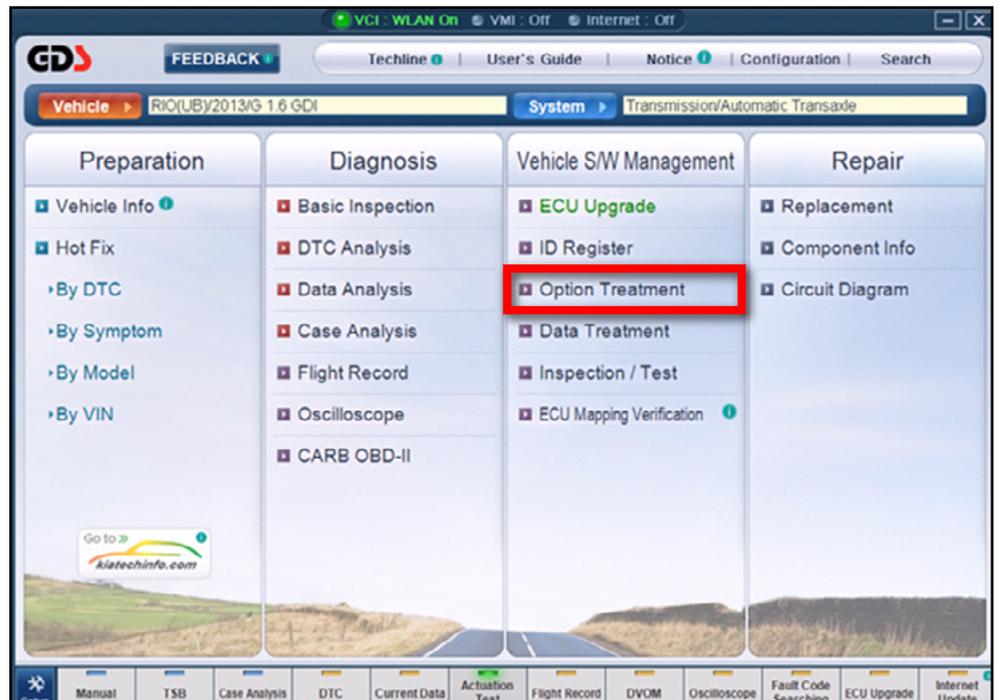[X] **Service Advisor(s)** [X] **Technician(s)**   [X] **Body Shop Manager** [X] **Fleet Repair**

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

I. RESET PCM/TCM ADAPTIVE VALUES USING GDS:

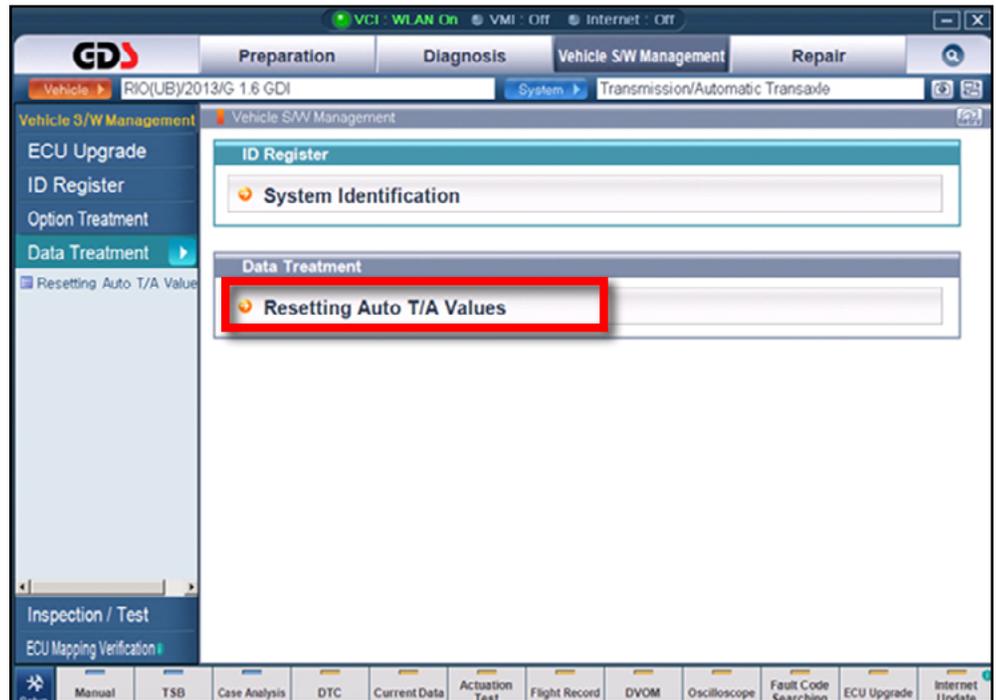1. Connect a GDS unit. Select **VIN**, then select **A/T** menu.

   Select **"OK"**.

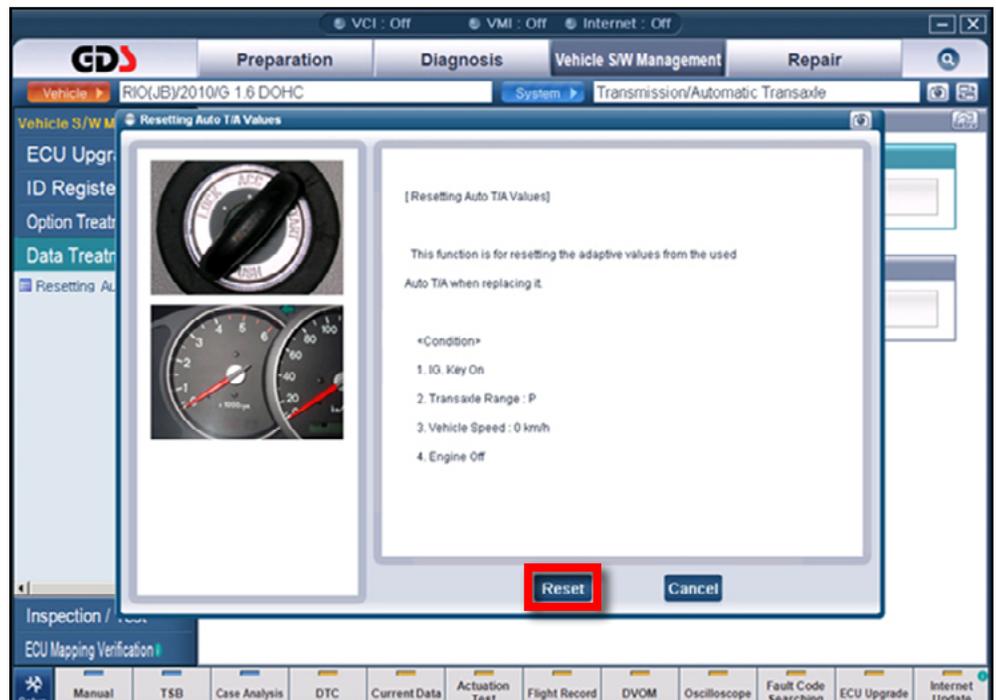2. At the main screen, select **"Option Treatment"**.

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

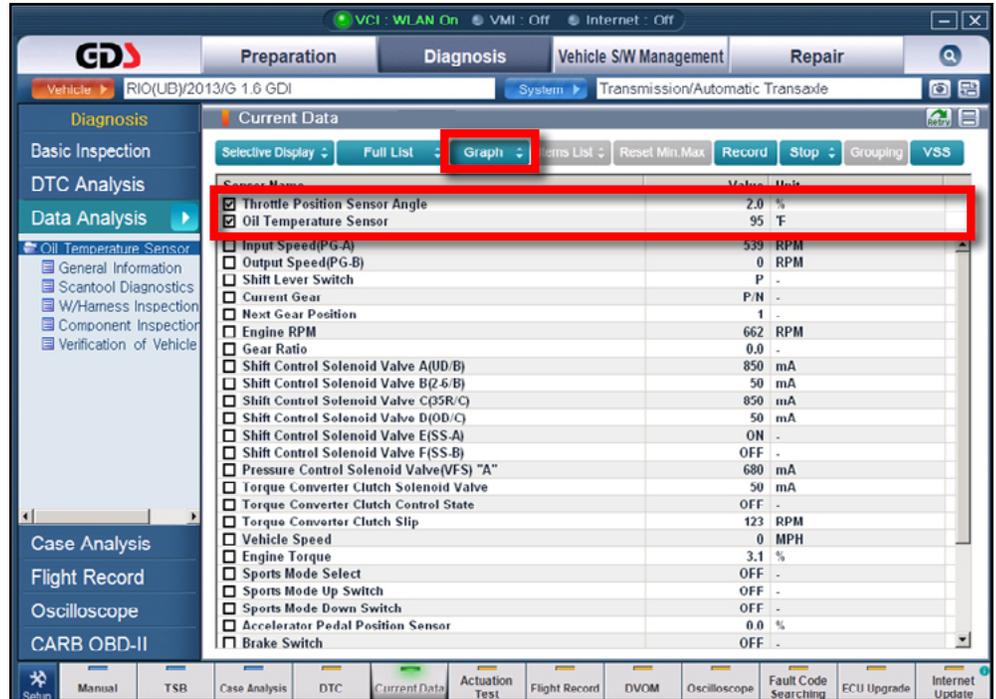4. Follow the on-screen instructions, then select **"Reset"**.

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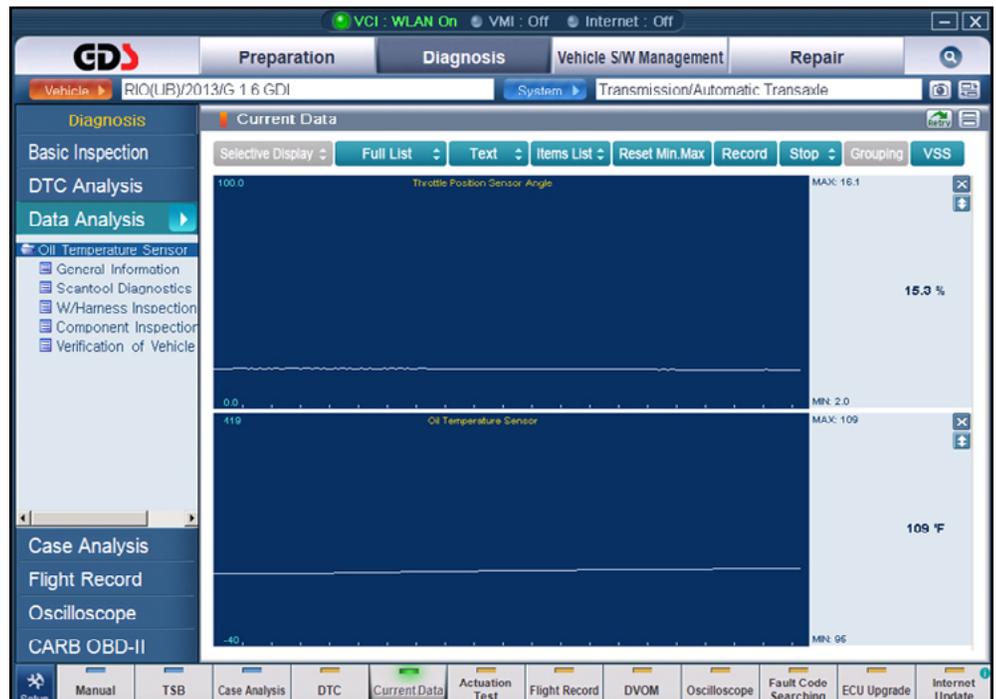
II. RELEARN ADAPTIVE VALUES

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).

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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)**

   - <u>**Ensure that traffic conditions are safe to conduct this portion of the Dynamic Test.**</u>
     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, <u>**only when safe to do so**</u>.

   <u>Repeat this step a total of 5 times.</u>

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*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.**

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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. *<u>Repeat this sequence a total of 5 times</u>*.

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

WARRANTY CLAIM INFORMATION:

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*NOTICE

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