



GROUP
TRA

MODEL
All Models
w/6 Spd. A/T

NUMBER
049 (REV 1, 08/04/2015)

DATE
March 2013

TECHNICAL SERVICE BULLETIN

SUBJECT: 6-SPD. A/T ADAPTIVE VALUE RESET /RELEARN

* NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides the procedures necessary to reset and relearn the adaptive values after transmission replacement or reprogramming/replacement of the PCM/TCM. 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)	2.0L Theta II & 2.4L Theta II
2012>	Rio (UB)	1.6L Gamma GDI
2014>	Cadenza (VG)	3.3L GDI Lambda II
2015>	Sedona (YP)	3.3L GDI Lambda II
2014>	Forte (YD)	1.6L Gamma GDI & 2.0L Nu
2014>	Soul (PS)	1.6L Gamma GDI & 2.0L Nu
2016>	Sorento (UMa)	3.3L GDI Lambda II, 2.0L & 2.4L Theta II i

File Under: Transmission

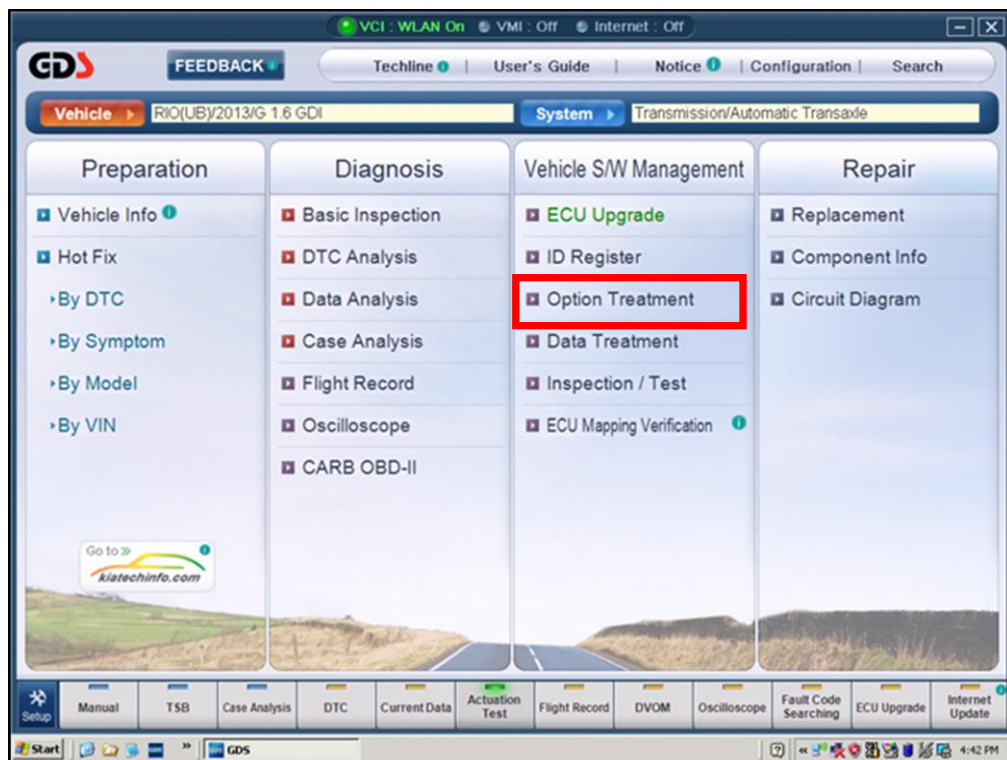
Circulate To: General Manager Service Manager Parts Manager
 Service Advisors Technicians Body Shop Manager Fleet Repair

I. RESET PCM/TCM ADAPTIVE VALUES USING GDS/KDS/KDS:

1. On the GDS/KDS perform an **Auto VIN** Function and then select **A/T** System.

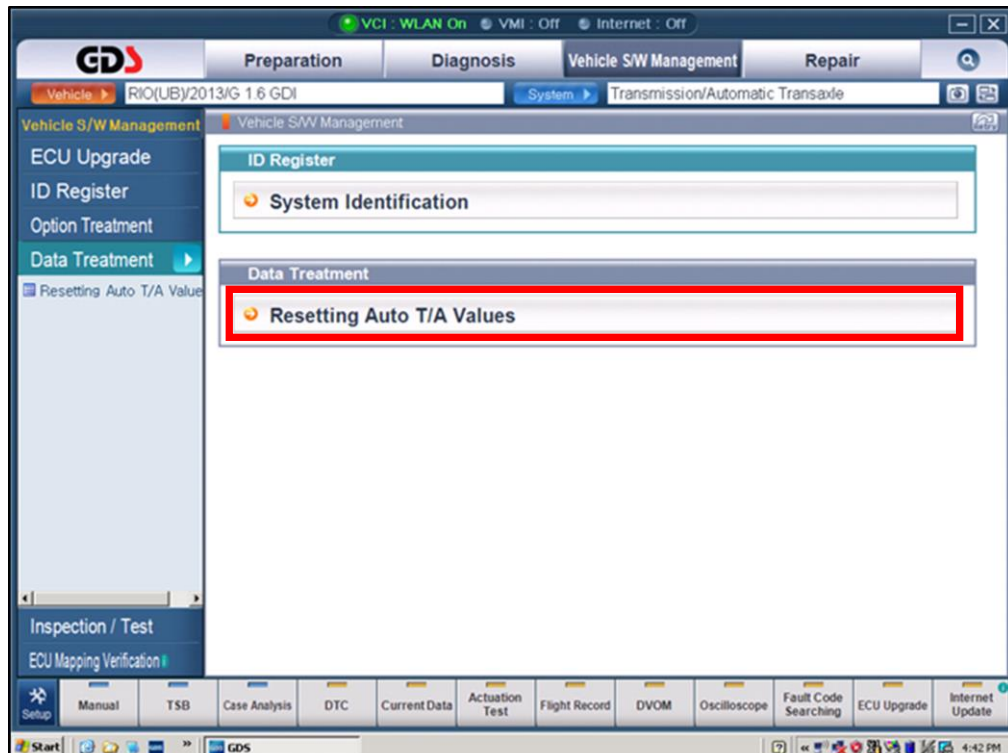


2. Select **“Option Treatment”**

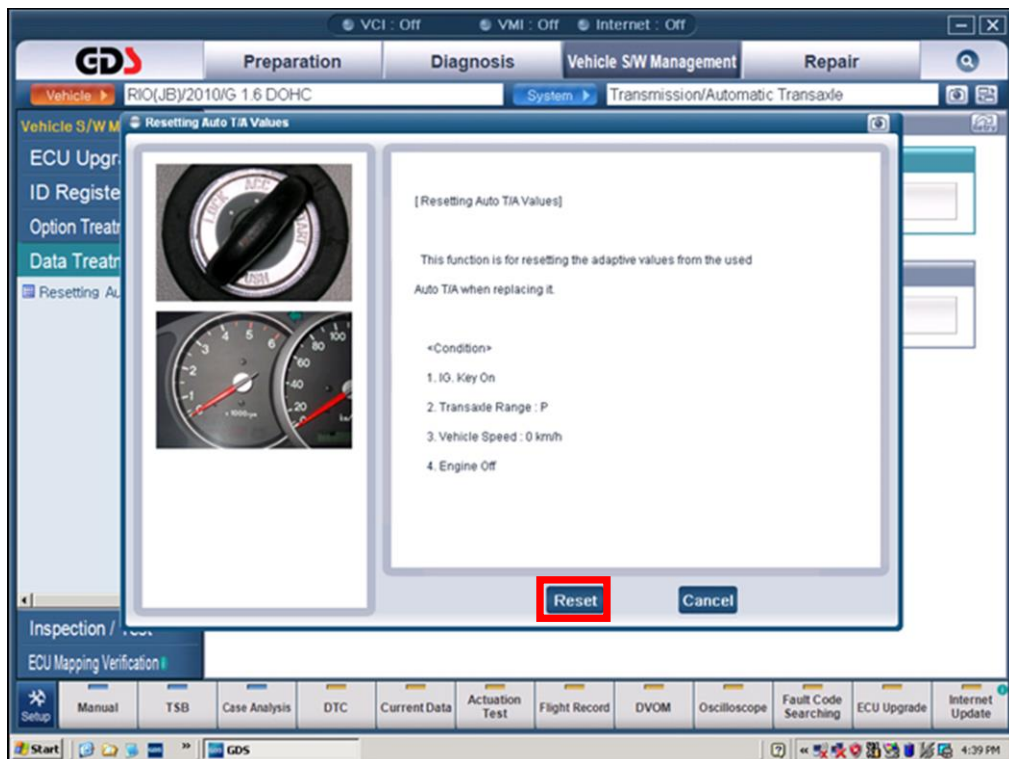


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3. Select “Resetting Auto T/A values”.

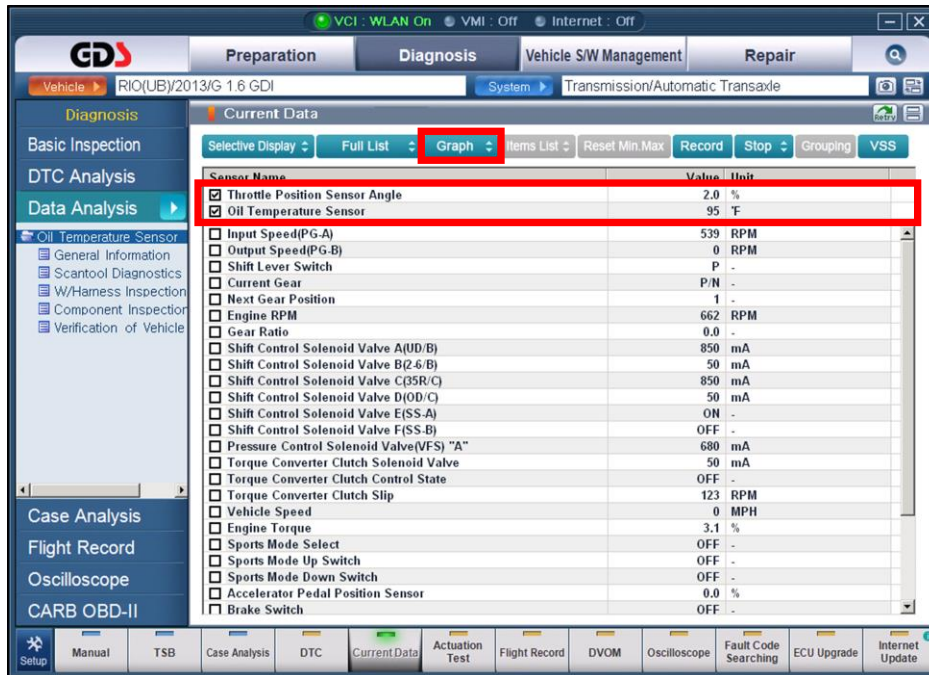


4. Follow the on screen instructions and Select “Reset”.

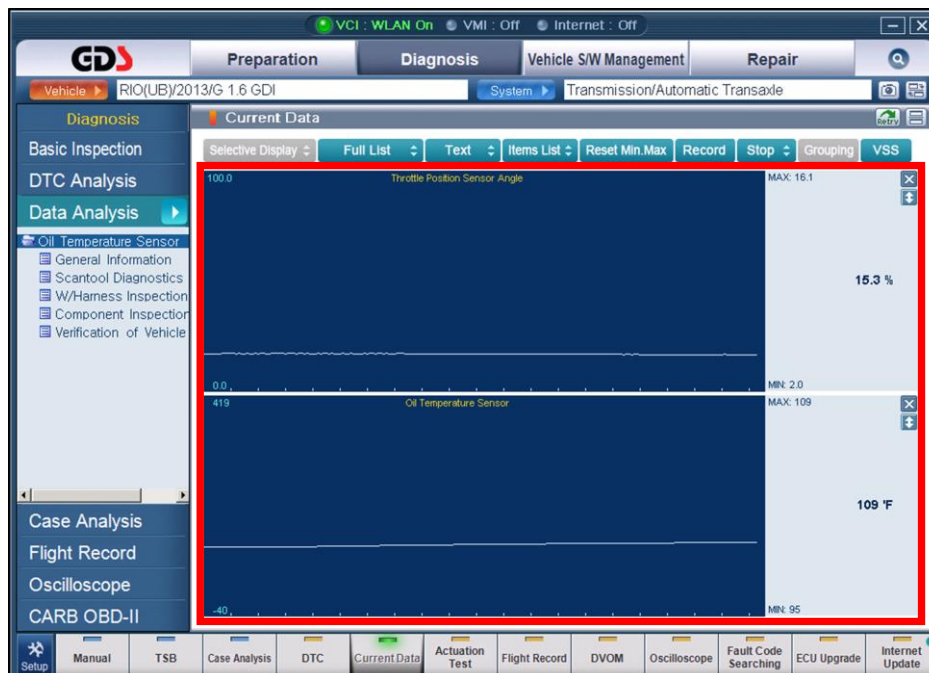


II. RELEARN ADAPTIVE VALUES

1. Select **Diagnosis Tab** and open **Current Data**.
2. Select the 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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- Request an assistant to monitor the graph data on GDS/KDS (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 the criteria below while conducting the dynamic testing:

- **Select a route that will allow you to safely perform the procedure without possible interference from 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 INFORMATION:

*** NOTICE**

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