	GROUP **Trans/Driveline**	MODEL **ALL**
	NUMBER **018**	DATE **January 2007**

TECHNICAL SERVICE BULLETIN

SUBJECT:
AUTOMATIC TRANSMISSION ADAPTIVE VALUE RESET / RELEARN

This bulletin provides automatic transmission adaptive value data reset (erase) and relearn procedures.

The PCM and TCM contain logic to adjust the solenoid duty and line pressure to compensate for normal clutch wear over the life of the transmission. Adaptive value reset and relearn must be performed to provide optimum shift quality after completing the following repairs.

- Replace automatic transmission
- Replace PCM or TCM
- Reprogram PCM or TCM

Adaptive values must be reset using procedure 1 or 2 according to model and model year (MY) as shown below. The adaptive values must also be relearned by following steps 2 and 3 after resetting.

1. Reset PCM/TCM adaptive Values

Kia Vehicles Requiring Automatic Transmission Adaptive Value Reset / Relearn		
	Procedure 1	**Procedure 2**
Model	**Disconnect Negative Battery Cable for 10 Seconds**	**Use Hi Scan or GDS**
Amanti	2004 MY	2005 and later MY
Optima	2001 - 2004 MY	2005 and later MY
Rio	----------	2006 and later MY
Sedona	2002 - 2004 MY	2005 and later MY
Spectra	----------	2004.5 and later MY
Sportage	----------	2005 and later MY
Sorento	----------	2005 and later MY

File Under: Trans/Driveline

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**

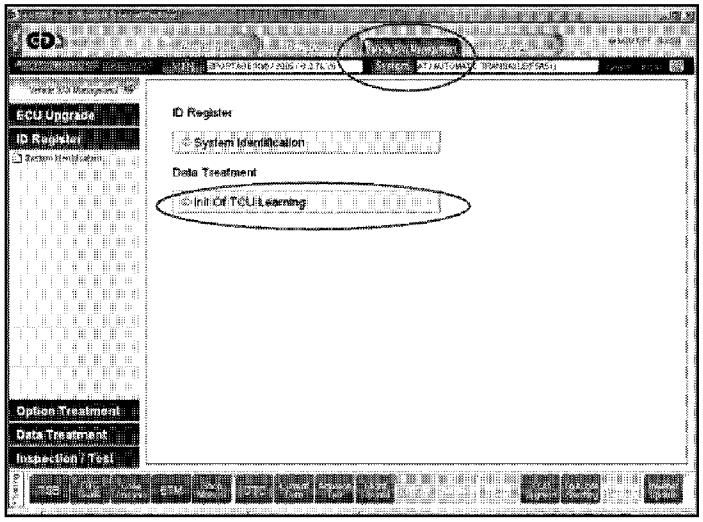
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AUTOMATIC TRANSMISSION ADAPTIVE VALUE RESET/RELEARN

Perform the Automatic Transmission Adaptive Value Reset Procedure as follows:

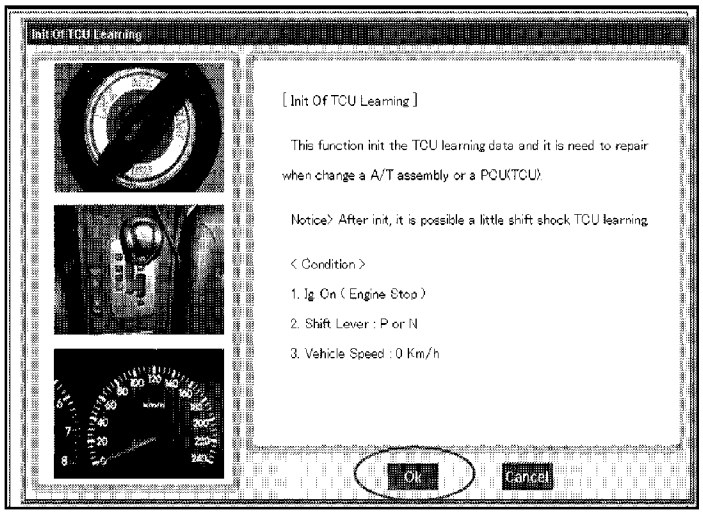
Use the GDS or Hi-Scan Procedure to reset the automatic transmission adaptive values found in the automatic transmission section menu. Follow the steps shown in RESETTING AUTO T/A VALUES or INIT OF TCU LEARNING (Sorento - TCU SUB ROM RESET) menu sections.

GDS Procedure:

1. Hook GDS to vehicle and input VIN or auto select VIN
2. Select Automatic Transmission system
3. Select Vehicle S/W Management tab as shown
4. Select "Init Of TCU Learning" as shown



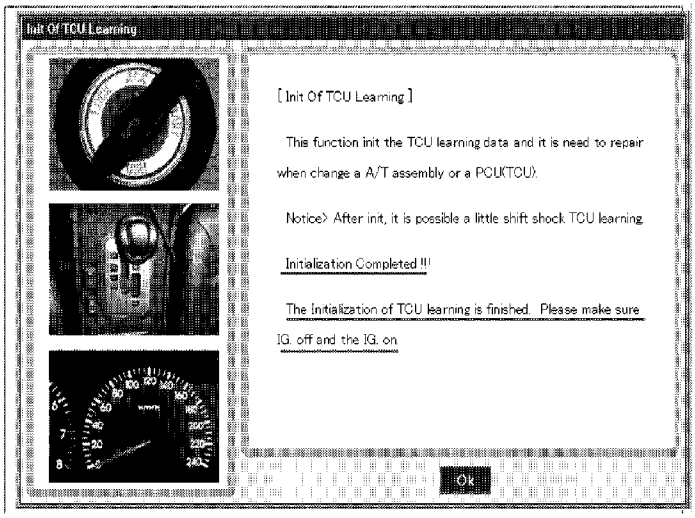
1. Follow instructions at right:
   - Ignition key on
   - Engine off
   - Shift lever in P or N
   - Vehicle speed 0 MPH
2. Click the "OK" button



✱ NOTICE

The 2005 and later MY Sorento requires the accelerator pedal pushed down 50%. Carefully follow the instructions on the screen.

1. Adaptive Reset is complete as shown
2. Turn the ignition key off for ten seconds

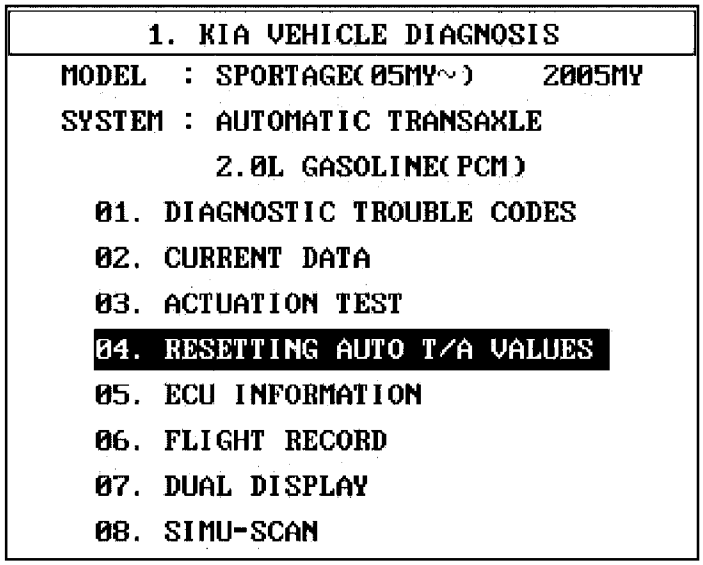


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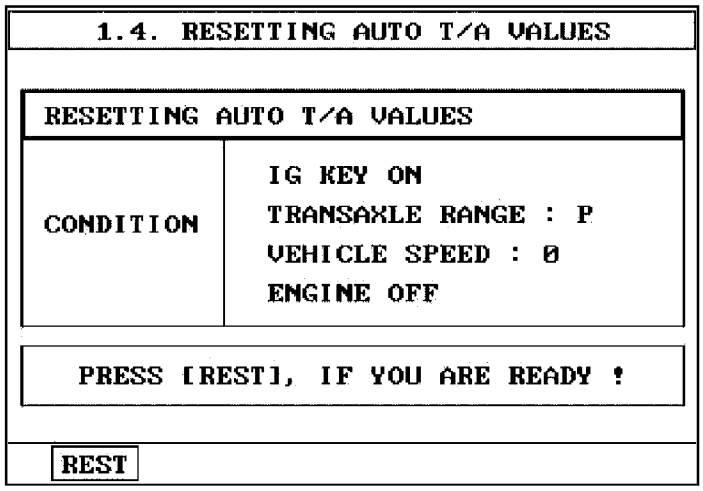
Hi-Scan Procedure:

Turn ignition key to "ON" position (do not start) and move the shift lever to "P".

1. Attach Hi-Scan Data Link Connector (DLC)
   - Select vehicle
   - Select "AUTOMATIC TRANSAXLE" Menu.
   - Select "RESETTING AUTO T/A VALUES"



2. Resetting Auto T/A Values
   - Press "REST" button
   - Press "YES" button
   - You must see the "COMPLETED" Message



3. Turn off Scan tool and turn ignition key off for 10 Seconds.

* NOTICE

It is important to follow the scan tool instructions carefully, after the adaptive values have been reset, turn the scan tool and ignition off for 10 seconds.

2. Driving Relearn

Dynamic Automatic Transmission Adaptive Learning Procedure:

1. Attach Hi-Scan or GDS and monitor ATF temperature and TPS percent.
2. Bring ATF temp. to just over 120 F and drive from a stop shifting from 1st to 3rd gears (Five speeds – 1st to 4th gears) at 30% TPS (Approx. 3000 RPM shift). Repeat 3 – 5 times until any shock or flare is eliminated.

*** NOTICE**

2005 and later Sorento Sub-ROM same as above except 8-12% TPS.
If TPS goes over 12%, relearn will not occur, start sequence over.

3. Static Shift Relearn

1. Stop the vehicle and shift into N for three seconds. Shift from N to D for two seconds. Repeat 3 – 5 times until there is no N to D shock.
2. Stop the vehicle and shift into N for three seconds. Shift from N to R for two seconds. Repeat 3 – 5 times until there is no N to R shock.