

# Technical Service Bulletin

GROUP	NUMBER	
CAMPAIGN	13-01-019	
DATE	MODEL	
MARCH 2013	ACCENT (RB)	

### **SUBJECT** AUTOMATIC TRANSAXLE TCM UPDATE (SERVICE CAMPAIGN TM6)



**Description:** This bulletin provides a procedure to update the TCM software for 2013 Accent 1.6L (RB) vehicles to revise the shift feeling in ECO mode.

This TSB supersedes TSB 12-01-039 to include retail vehicles.

## \* IMPORTANT

\*\*\* Dealer Stock and Retail Vehicles \*\*\*

Dealers must perform this Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the Service Department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Applicable Vehicles: 2013 MY Accent (RB) with automatic transaxles Applicable Production Date Range: From April 19, 2012 through September 21, 2012

### GDS INFORMATION:

EVENT#	DESCRIPTION
Event #289	#289 13MY RB 1.6 ACTIVE ECO ACCELERATION LOGIC IMPROVEMENT - TCM

### WARRANTY INFORMATION:

MODEL	OP CODE	OPERATION	OP TIME
Accent (RB)	20C110R1	TCM UPGRADE	0.3

NOTE: Submit claim on Campaign Claim Entry Screen

#### ROM ID TABLE: Verify the TCM ROM ID before updating vehicle software.

MODEL	PCM (TCM) PART	TCM ROM ID		
WIODEL	NUMBER	PREVIOUS	NEW	
ACCENT (RB) 1.6L 39110-2BAS1		TRB0Z16NA4 TRB0Z16NA5	TRB0Z16NA6	

#### **GENERAL PRECAUTIONS**

- Connect the USB cable between the GDS and the VCI.
- Connect the 16-pin DLC connector from the VCI into the DLC located under the driver's side dash.



## \* NOTE

Make sure the battery icon at the bottom right of the GDS laptop shows at least 50%; if not, charge the GDS or attach a battery charger.

- Turn off all lights (Do not leave the headlight switch in auto mode) and all accessories (including heater/air conditioner/fan, audio, heated seats, rear defroster, etc) to ensure the battery will not be discharged during the update.
- Perform the update with the ignition key in the ON position. (Turn the ignition key to the ON position or press the Start-Stop Button two times without depressing the brake pedal).
- Do not disconnect any cables connected to the vehicle or the GDS during the update.
- Do not start the engine or turn the ignition switch OFF during the update.

## \* NOTE

Confirm your GDS has the most recent version. If not, connect the GDS to an Internet port, open the GDS home page and select "Update". Refer to instructions on hmaservice.com if necessary.

### \* NOTE

If you encounter GDS related problems, call the GIT Helpline at 888-437-0308.

#### GDS AUTO MODE TCM UPDATE PROCEDURE

- 1. From the GDS home page, select ECU Upgrade. If necessary, select the VIN.
- 2. Select AT as the system and then select OK.
- 3. Select Auto Mode and then select Next.
- 4. From the **System** tab, select **AT** and then select **OK**. The GDS will read the ROM ID. Confirm the ROM is applicable as shown on Page 1, "ROM ID Information".
- 5. Update event **#289.13MY RB 1.6 ACTIVE ECO ACCELERATION LOGIC IMPROVEMENT -**TCM will display. Select Upgrade.

🕘 VCI : USB On 💿 VMI : Off 💿 Internet : Off					
GD	Preparation	Diagnosis Vet	icle S/W Management	Repair	0
	B)/2013/G 1.6 GDI	System 🕨	Transmission/Autor	natic Transaxle	• =
Vehicle S/W Management	📙 ECU Upgrade		A STATISTICS	and the second	HOMER STRAY
ECU Upgrade 🗾	<ul> <li>Event Group</li> </ul>	Event List			TSB
Mode	Current ROM ID	TRB0Z16NA5			
Auto Mode	Latest ROM ID	TRB0Z16NA6			
System	289.13MY RB 1.6 ACTIVE E	ECO ACCELERATION	LOGIC IMPROVEMEN	IT-TCM	a the second second
AT					
		(1)			
		Previous	Upgrade	開設調	
	Event selection				
	1. Review and understa	nd related TSB for ve	ehicle reprogrammir	ng.	
	2. Select reprogramming 3. Click the Upgrade bu	g event from Upgrad tton to begin ECU u	e Event pull down n ograde.	nenu above.	
ID Register					
Option Treatment					
Data Treatment					
Inspection / Test					
ECU Mapping Verification i					
Setup Manual 1	SB Case Analysis DTC C	urrent Data Actuation Test Fli	ght Record DVOM C	Simulation Test	Internet Update
🐉 Start 🛛 🔤 GDS		l C	) 3 🔯 🗖 🖉 🖉	\$ \$\$ <b>13</b> \$\$ \$\$ <b>16 16 16 16 16 16 16 16</b>	3 1 9:07 AM

- 6. If the screen indicates "**Voltage is OK**", select **OK**. If not, select **CANCEL** and charge the vehicle battery by running the engine for 10 minutes.
- 7. Updating will occur until 100% is reached on the bar graph. At the prompt, turn the ignition key OFF for 10 seconds, then turn it ON and select **OK**.
- 8. The GDS will confirm that TCM reprogramming is successfully finished. Select OK.
- If the TCM update was not successful, go to GDS <u>MANUAL</u> MODE <u>TCM</u> UPDATE PROCEDURE.
- 10. Check for any Diagnostic Trouble Codes and erase any DTC.
- 11. Drive the vehicle to confirm proper operation.

#### GDS MANUAL MODE TCM UPDATE PROCEDURE



- 1. From the GDS home page, select ECU Upgrade. If necessary, select the VIN.
- 2. Select AT as the system and then select OK.
- 3. Select Manual Mode and then select NEXT.
- 4. From the System tab, select AT and then select NEXT.
- 5. Update event **#289.13MY RB 1.6 ACTIVE ECO ACCELERATION LOGIC IMPROVEMENT -**TCM will display. Select Next.
- 6. Select RB 1.6 TCM 39110-2BAT1/S1. Select Upgrade.

VCI : USB On 🕒 VMI : Off 🌒 Internet : Off					
GD	Preparation	Diagnosis	Vehicle S/W Manageme	nt Repair	0
Vehicle 🕨 ACCENT(RE	3)/2013/G 1.6 GDI	Syste	m 🔊 Transmission/Au	omatic Transaxle	0 🗄
Vehicle S/W Management	📕 ECU Upgrade				and the second second
ECU Upgrade 🛛 🕑	<ul> <li>Event</li> </ul>	Event List			TSB
► Mode Manual Mode	<ul> <li>Current ROM ID</li> <li>Latest ROM ID</li> </ul>	TRB0Z16NA6			
▶System AT	RB 1.6 TCM : 39110-2	'BAT1/S1			
Event Group     289.13MY RB 1.6 ACTIVE ECO ACC		Previous	Upgrade		
	• During the ECU Failure to follow the	Upgrade, observe the nese precautions may	following precautions result in ECU damag	e.	<u>*</u>
1) DO NOT operate any other computer program.         2) DO NOT disturb or disconnect the DLC(Data Link Connector).         3) DO NOT turn off the VCI or DO NOT disconnect VCI USB Connector.         4) DO NOT start the vehicle or turn the IG key off.         5) DO NOT start the vehicles other systems(climate control, lighting.					
Data Treatment	audio, etc.)				
ECU Mapping Verification ()					×
Setup Manual TS	SB Case Analysis DTC	Current Data Actuation Test	Flight Record DVOM	Oscilloscope Simulation Test	Internet Update
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7. Enter the Password and click OK. The part number can be found on the PCM label.

MENU	PASSWORD
RB 1.6 TCM: 39110-2BAT1/S1	1021

- 8. If the "Voltage is OK", select OK. If not, select CANCEL and charge the vehicle battery.
- 9. The remaining steps are the same as Step 7~11 of the Auto Procedure.