

SUBJECT: AUTOMATIC TRANSMISSION TCM UPDATE (SERVICE CAMPAIGN TM1)

GDS CONTRACTOR ECU Update

Description: This bulletin provides a procedure to update the TCM for 2013 Genesis Coupe 3.8L vehicles with revised logic for improving the shift quality.

*** 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 Genesis Coupe 3.8L with automatic transmission Applicable Vehicle Production Date: From January 19, 2012 through September 17, 2012

GDS INFORMATION:

EVENT #	DESCRIPTION
Event #280 (or latest Event #)	BK 3.8L TCM 4-5 Upshift Logic Improvement

WARRANTY INFORMATION:

MODEL	OP CODE	OPERATION	OP TIME
GENESIS COUPE 3.8L (BK)	20C094R1	TCM UPGRADE	0.3

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

MODEL	DOM DADT NO	ROM ID		
MODEL	PGIVI PARTINO.	PREVIOUS	NEW	
GENESIS COUPE 3.8L	05440 45120	TBK0Z38NC0	TBK0Z38NC2	
(BK)	95440-46120	TBK0Z38NC1	TBK0Z38NC2	

GENERAL PRECAUTIONS

* NOTE

In the event of AUTO MODE update failure (after it initiated the progress bar):

- You must attempt MANUAL MODE. Use the TCM P/N from the vehicle's TCM label if the correct TCM P/N is not clear from the ROM ID table.
- Replacing a TCM without carefully documenting that a MANUAL MODE update attempt was made will result in a charge back of your claim.
- 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).
- Perform the update with the ignition key in the ON position.
- 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".

***** NOTE

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

SERVICE PROCEDURE

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. Select update event **#280 BK 3.8 GDI TCM 4-5 Upshift Logic Improvement** or any later (higher) event number that shows in the GDS list. Select **Upgrade**.

	🔮 VCI . I	USB On 🛛 🔍 VMI : Off	Internet Off		-×
GD	Preparation	Diagnosis	Vehicle S/W Managemen	Repair	0
Vehicle 🕨 GENESIS C	OUPE(BK)/2013/G 3.8 GDI	Syster	Transmission/Auto	omatic Transaxle	08
Vehicle 3/W Management	ECU Upgrade	A to a straight of the			and the second
ECU Upgrade 🌗	Event Group	Event List)		TSB
Mode Auto Mode	 Current ROM ID Latest ROM ID 	TBK0Z38NC0 TBK0Z38NC2		ninenninenenenen som	
• System	280.BK 3.8 GDI TCM 4-5	UPSHIFT LOGIC IMPR	OVEMENT		
		Previous	Upgrade		
	Event selection Event selection Review and understand related TSB for vehicle reprogramming. Select reprogramming event from Upgrade Event pull down menu above. S. Circk the Upgrade button to begin ECU upgrade.				
ID Register					
Option Treatment					
Data Treatment					
Inspection / Test	1.				
ECU Mapping Verification					
Setup Manual T	SB Case Analysis DTC	Current Data Actuation Test	Flight Record DVOM	Oscilloscope Simulation Test	Internet Update
🐮 Start 🛛 🔤 GDS			0 2 😋 🛛 🖓 🔤 🛅	3349VE	1:40 PM

- 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 update is successfully finished. Select OK.
- 9. 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 in the ESC menu and erase any DTC.
- From the home screen, select Vehicle, AT menu and Option Treatment. Select Resetting Auto T/A Values and follow the prompts on the screen. <u>This step is necessary to ensure a smooth</u> <u>shift.</u>
- 12. Start the engine to confirm proper operation.

GDS MANUAL MODE TCM UPDATE PROCEDURE

* NOTE GDS Manual Mode is intended for recovery of a TCM Update should it begin but then later fail in process in the Auto Mode. Disconnect the TCM connectors for 15 minutes to reset its contents

- Disconnect the TCM connectors for 15 minutes to reset its contents before performing this Manual Mode Update.
- Do not force Manual Mode if an error in Auto Mode indicates that the vehicle's current ROM ID did not apply.
- 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 #280 BK 3.8 GDI TCM 4-5 Upshift Logic Improvement will display. Select Next.
- 6. Select BK 3.8 GDI TCM 95440-4F120. Enter 4120 as the Password and click OK.

	Preparation	Diagnosis	Vehicle S/W N	Management	Repair	0
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hicle S/W Management	ECU Upgrade					Sec. and
ECU Upgrade 🛛 🕨	- Event	Event List			No.	TSB
	Current DOM ID					
Mode	Current ROM ID		102			
Manual Mode		TBR0236	402			
System	BK 3.8 GDI TCM : 9544	0-4F120	a the second second	All and the f	The fact the stand	
AT						
Event Group		Contractor				
Event Group		Previo		Upgrade		
280.BK 3.8 GDI TCM 4-5 UI						
280.BK 3.8 GDI TCM 4-5 UI						
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280.BK 3.8 GDI TCM 4-5 UI D Register Dption Treatment Data Treatment nspection / Test CU Mapping Verification (CAUTION During the ECU U Failure to follow the DO NOT operate ar DO NOT disturb or DO NOT disturb or DO NOT start the v DO NOT start the v DO NOT operate audio, etc.)	Ipgrade, observe ese precautions r disconnect the DLC e VCI or DO NOT di vehicle or turn the IG any of the vehicles	the following prina nay result in EC program. (Data Link Conne sconnect VCI USE is key off. s other systems(ecautions. U damage. ector). 3 Connector. climate control,	lighting,	<u>×</u> <u>×</u>
280.BK 3.8 GDI TCM 4-5 UI D Register Option Treatment Data Treatment Ispection / Test DU Mapping Verification II	CAUTION During the ECU U Failure to follow the DO NOT operate at DO NOT disturb or DO NOT start the v DO NOT start the v DO NOT operate audio, etc.)	Ipgrade, observe ese precautions r ny other computer p disconnect the DLC eVCI or DV NOT di vehicle or turn the IG any of the vehicles	the following prinay result in EC program. (Data Link Conne sconnect VCI USE is key off. s other systems(ecautions. U damage. ector). 3 Connector. climate control,	lighting,	× Internet
280.BK 3.8 GDI TCM 4-5 UI D Register Option Treatment Data Treatment Data Treatment Du Repetion / Test DU Rapping Verification Du Manual	CAUTION During the ECU U Failure to follow the DO NOT operate ai DO NOT disturb or DO NOT turn off th DO NOT start the v DO NOT start the v DO NOT operate audio, etc.) TSB Case Analysis DTC	Ipgrade, observe ese precautions r ny other computer p disconnect the DLC e VCI or DNOT disconnect the DLC any of the vehicles current Data Act.	the following prinay result in EC program. (Data Link Conne sconnect VCI USE is key off. s other systems(ation Flight Record	ecautions. U damage. ector). S Connector. climate control, DVOM Oscill	lighting, oscope Simulation Test	r Internet Update

MENU	PASSWORD
BK 3.8 GDI TCM 95440-4F120	4120

- 7. If the "Voltage is OK", select OK. If not, select CANCEL and charge the vehicle battery.
- 8. The remaining steps are the same as Step 7~12 of the Auto Procedure.