НҮПЛА Technical Service Bulletin			Group	CAMPAIGN
	Bulletin			
			Data	11-01-010
	OR VINYL COVER INSTA	LLATION &	Dale	APRIL, 2011
AIRBAG CONT	ROLUNIT REPROGRAM	MMING	Model	
		00)	20	007 - 2009 ELANTRA
CIRCULATE TO:	[] GENERAL MANAGER	[X] PARTS MANA	GER	[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY	MGR	[] SALES MANAGER
IMPORTANT: DE AF TH	ALERS MUST PERFORI FECTED VEHICLES WH E SHOP FOR ANY MAIN	M THESE CAMF ENEVER AN AF TENANCE OR I	PAIGNS FECTE REPAII	S ON ALL ED VEHICLE IS IN R. DEPARTMENT
AC INF CA	CESS HYUNDAI MOTOR FORMATION" SCREEN V MPAIGNS.	R AMERICA'S "\ /IA WEBDCS T(VARRA D IDEN	ANTY VEHICLE TIFY OPEN
DESCRIPTION:				
This bulletin descr for the affected ve	ibes two campaign repair hicle and conduct the app	procedures. Ide propriate campai	entify th gn repa	e open campaign(s) airs accordingly.
<u>CAMPAIGN 099:</u>				
Campaign 099 pro Classification Syst spills. If the conne	ovides the procedure to in tem (WCS) wiring connec ector is contaminated, it m	stall a protective tor to prevent co ay result in airba	cover ntamin g warn	over the Weight ation from liquid ing light illumination.
Vehicles Affected November 1, 2008	d: 2007-2009 Elantra Veh 3.	icles produced fi	rom Jul	y 14, 2006 through
CAMPAIGN 100:				
The driver's Seat seat to allow the d an unstable STPS determining the po Campaign 100 pro	Track Position Sensor (ST river's airbag to deploy at electric signal may prevent position of the seat, resultin povides the procedure to re	rPS) detects the the appropriate p ent the Airbag Co og in airbag warn program the AC	fore ar pressur ontrol U ing ligh U to re	nd aft position of the e. In some vehicles, Init (ACU) from It illumination. pair this condition.
Vehicles Affected August 29, 2007.	d: 2007-08 Elantra Vehicle	es produced from	n July 1	14, 2006 through

CAMPAIGN 099 : WCS CONNECTOR VINYL COVER INSTALLATION

VEHICLES AFFECTED:

2007-2009 Elantra Vehicles produced from July 14, 2006 through November 1, 2008.

PARTS INFORMATION:

PART NAME	PART NUMBER	REMARKS
Connector Vinyl Cover	91971-2H999	

NOTE: Before conducting the repair procedure, verify the vehicle falls within the production date range as noted above and has an open recall 099.

- 1. The IGNITION SWITCH MUST BE OFF and the KEY MUST BE REMOVED from the ignition switch before beginning this procedure.
- 2. For automatic transaxles, apply the parking brake and place the shift lever in the Neutral ("N") position.



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3. Lift and remove the shift knob (A).



For manual transaxles, apply the parking brake and rotate the shift lever knob (B) counterclockwise to remove.



4. With the parking brake in the applied position, remove the parking brake lever cover (C).



5. Open the center console armrest (D).



6. Remove the console tray mat (E) and, using a 10mm ratchet, remove the center console mounting nuts (F).



7. Using a small pick, remove the center floor console front mounting screw cover (G).



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 Using a Phillips screwdriver, remove the center console front mounting screw (H). Repeat procedure for the other side.

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9. Lift from the rear and remove the center console assembly.



- 10. Locate the Weight Classification System wiring connector (J), which is positioned to the rear of the Airbag Control Unit.
- NOTE: This connector is identified as AA11 in the airbag system section of the ETM for the affected vehicles.



11. Remove the backing strip (K) from the adhesive on the vinyl cover.



12. Attach the vinyl cover onto the Weight Classfication System connector as shown in the photo. Use your finger to evenly press down on the vinyl cover.



13. Install all the removed components in reverse order of removal.

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CAMPAIGN 100: AIRBAG CONTROL UNIT (ACU) REPROGRAMMING

VEHICLES AFFECTED:

2007-2008 Elantra Vehicles produced from July 14, 2006 through August 29, 2007.

GDS ACU SOFTWARE REPROGRAMMING PROCEDURE:

Important Cautions for Reprogramming:

- Reprogramming by GDS can only be performed by using the USB cable between a laptop and the VCI; wireless cannot be used for reprogramming.
- Make sure the GDS laptop battery indicator at the bottom right of the screen indicates at least 25% battery charge remaining to be able to complete reprogramming; if not, charge the laptop or keep the AC adaptor connected while reprogramming.
- Perform reprogramming with the ignition key in the ON position.
- Turn off all lights (do not leave headlight switch in auto mode) and all accessories (including heater/air conditioner/blower, radio, heated seat, rear defroster, etc.) to make certain the battery will not be discharged during reprogramming.
- Be careful not to disconnect any cables connected to the vehicle during reprogramming.
- Do not start the engine during reprogramming.
- Do not turn the ignition switch OFF during reprogramming.

IMPORTANT: Before conducting the update to the vehicle's ACU software, verify the vehicle falls within the production date range as noted on page 7 of this bulletin and has an open recall 100.

- <image>
- 1. Connect the GDS VCI module to the vehicle's DLC connector and the USB cable between the VCI and GDS laptop's USB port.

- 2. Turn on the vehicle ignition. Make sure the green power LED is lit on the VCI; if it is not lit press on the power button of the VCI. Within a few seconds, the top of the GDS screen should indicate **VCI:USB On** in bright green.
- Make sure the GDS has the latest data by pressing the bottom right Internet Update button on the GDS screen. You will get a confirmation on the GDS screen if it is already updated; otherwise the Download Start button will be viewable and should be pressed to update the GDS.
- NOTE: You must have an internet connection to GDS to be able to receive any updated data; the bright green "Internet On" should illuminate on top of the screen.
- NOTE: If a GDS internet update is available, it could take up to several minutes to download and complete the update.

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4. Press the $\ensuremath{\text{VIN}}$ button at the top of the screen to launch the GDS VIN search screen.

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paration	Diagnosis	Vehicle S/W Management	Repair
l Vehice Info 0	Basic Inspection	ECU Upgrade	Parts Catalog 0
I Hot Fix	DTC Analysis	■ ID Register	Replacement
▶By DTC	Data Analysis	Option Treatment	Component Info
By Symptom	Flight Record	Data Treatment	Circuit Diagram
▶By Model		Inspection / Test	
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5. Press the **Auto VIN** button to automatically read the vehicle's VIN (or you will need to manually enter vehicle, year, and engine if it does not automatically read this information) then press **Airbag** for system.



6. Select **All Systems** from the below screen.

KMHDU46D47U162381	h Auto VIN	Clear	Previous Vehicle
ELANTRA(HD)	2007	G 2.0	ронс
System			
Selver All Systems Airbag Control Airbag Control Weight Class BCM IMMO TPMS	ol Unit ification Cancel	cted	System
Group	_	Symptom	
Fault Code Searching	OK	Cance	el

7. Select the **OK** button at the bottom of the screen.

VIN KMHDU46D47U162381	Search Auto VIN	Clear Previous Vehic
ELANTRA(HD)	2007	G 2.0 DOHC
System	1 AG	
Select System	n	Selected System
ENGINE ATT ABS/ESC AIRBAG		Airbag Control Unit
Group		Symptom
Fault Code Searching	ок	Cancel

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- GD) User's Guide Notice 🕕 | Configuration | VIN ELANTRA(HD)/2007/G 2.0 DOHO Airbag/Airbag Control Unit System > Preparation Vehicle S/W Management Diagnosis Rep Vehicle Info 1 ECU Upgrade Basic Inspection Parts Cata Hot Fix DTC Analysis ID Register Replacem ▶By DTC Data Analysis Option Treatment Componer Circuit Dia ▶By Symptom Flight Record Data Treatment ▶By Model Oscilloscope Inspection / Test ▶Campaign CARB OBD-II Go to » hmaservice.com Actuation Test Simulati Test Manua TSB Case Analysis DTC Current Data Flight Record DVOM Oscilloscope
- 8. Press the ECU Upgrade button on the following screen:

9. In the ECU Upgrade screen select AUTO MODE then the NEXT button

GD_	Preparation	Diagnosis	Vehicle S/W Management	Repair	0
	(HD)/2007/G 2.0 DOHC	Syste	Mirbag/Airbag Cont	rol Unit	02
ehicle S/W Management	ECU Upgrade				
ECU Upgrade 🛛 🕨	Mode	Event List			
	Auto Mode Manual Mode				
		Previous	Next		
	CAUTION 1. DO NOT start the upgrade. 2. Ensure that the t 3. Confirm the target 4. Review the applic 5. Make certain tha 6. Ensure that any J 7. Confirm the new 8. Do not remove the	the engine and DO NOT tu pattery is fully charged BEI et vehicle/system BEFORE sable TS8/procedure befor t the proper connector me applicable components ar ROM ID after performing a ne USB cable during upgra	m the ignition key to the FORE beginning ECU upgi performing a manua/err e performing an ECU upg intioned in the related TSI is replaced BEFORE perfor n ECU upgrade. ding the ECU!!	OFF position during th ade. or mode ECU upgrade. rade. 3 is used. ming the ECU upgrade	e ECU
ID Register					
Ontion Treatment					
Option Treatment					
Option Treatment Data Treatment Inspection / Test					•



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- 11. After the ROM ID is displayed, click the Upgrade button. GD) Vehicle S/W Management 0 Preparation Diagnosis Repair 0 岸 ELANTRA(HD)/2007/G 2.0 DOHC Airbag/Airbag Control Unit Vehicle S/W Management 🔡 ECU Upgr: ECU Upgrade TSB Event Group **Event List** Current ROM ID 95910-2H500 Mode Latest ROM ID 95910-2H400(2H500) Auto Mode System AIRBAG Previous Upgrade Event selection Review and understand related TSB for vehicle reprogramming.
 Select reprogramming event from Upgrade Event pull down menu above.
 Click the Upgrade button to begin ECU upgrade. ID Register **Option Treatment** Data Treatment Inspection / Test * Actuation Test Simulation Test TSB Case Analysis DTC Current Data Flight Record DVOM Oscilloscope Internet Update Manual
 - 12. At the screen below, enter "**5609**" as the password for the ACU upgrade and then click **OK**.

GD	Preparation	Diagnosis	Vehicle S/W Managemen	t Repair	0
	HD)/2007/G 2.0 DOHC	S	ystem 🕨 Airbag/Airbag Co	ntrol Unit	02
Vehicle S/W Management	📕 ECU Upgrade				
ECU Upgrade 🏾 🕑	 Event Group 	Event List			TSB
Mode	Current ROM ID	95910-2H5	00		
Auto Mode	Latest ROM ID	95910-2H4	00(2H500)		
System	224.HD ACU UPDATE	a Information			
AIRBAG					
• Event Group 224.HD ACU UPDATE		Password	5609 TSB		
	CAUTION *During the ECU Up Failure to follow the	gradie bserve the fo	bllowing precautions, esult in ECU damage,		*
•	1. DO NOT operate an	other computer progra	ms.		
ID Register	3, DO NOT disturb of d 3, DO NOT turn off the	e VCI or DO NOT discon	a Link Connector), hect VCI USB Connector,		
Option Treatment	5, DO NOT start the ve 5, DO NOT operate an	by of the vehicles other s	on, systems(climate control, lightin	ng, audio, etc.).	
Data Treatment					
Inspection / Test					×
mopeotion/ rest					

- 13. The battery voltage is verified to make sure it is at least 12 volts to ensure reliable update results. Click **OK** if the results indicate the voltage is OK.
- NOTE: If voltage is below 12 volts, click Cancel and then run the engine for several minutes to ensure an adequate battery charge state for reliable update results.

GD	Preparation	Diagno	sis	/ehicle S/W	Managemen	t	Repair	0
	(HD)/2007/G 2.0 DOHC		System	🔊 Airbag	/Airbag Co	ntrol Unit		0.
Vehicle S/W Management	ECU Upgrade							
ECU Upgrade 🌓	 Event Group 	Event	List					TSB
► Mode Auto Mode	 Current ROM ID Latest ROM ID 	9591 9591	0-2H500 0-2H400(2H	H500)				
System	224.HD ACU UPDAT	Inform at	ion BATTI	ERY VOLTA	GE:12.34V			
Event Group 224.HD ACU UPDATE			Press Pres to	Voltage Is OK to upgr s CANCEL 1 previous s	OK. rade ECU. to return creen.			
ID Register	CAUTION •During the ECU up Failure to follow the 1, DO NOT operate au 2, DO NOT disturb or 3, DO NOT turn off th 4, DO NOT start the v 5, DO NOT operate au	gr ise dis v ehi	ок		Car	ncel		×
Data Treatment Inspection / Test								•
Setup Manual	TSB Case Analysis DT	C Current Data	Actuation Test	Flight Record	DVOM	Oscilloscope	Simulation Test	Internet Update

14. Reprogramming of the ACU will begin starting with the screen below and gradually showing the progress on the bar.



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- 15. Update will occur until 100% is reached on the bar graph. After the **ACU REPROGRAMMING COMPLETED** screen appears, click the **OK** button.



- 16. Check that no incidental Diagnostic Trouble Codes (DTC) have been created by the reprogramming and, if there are, that they don't return after being cleared. If they returned after being cleared, follow the diagnostic directions for that DTC.
- 17. Log GDS off and remove all GDS cables from the vehicle. Turn off the ignition for at least 10 seconds.
- 18. Start the engine and confirm correct operation of the SRS system.

CAMPAIGN CLAIM INFORMATION:

Campaign 099:

Vinyl Cover Attachment (July 14, 2006 to November 1, 2008)

OP CODE	OPERATION	OP TIME
11C020R0	Vinyl Cover Attachment	0.3 M/H

Campaign 100:

ACU Reprogramming (July 14, 2006 to August 29, 2007.

OP CODE	OPERATION	OP TIME
11C012R0	ACU Reprogramming	0.2 M/H

NOTE: Submit claim using the Campaign Claim Entry Screen.