

**NUMBER: 390110015.01****MODEL: Karma****DATE: January 9, 2012****MODEL YEAR: 2012****TITLE: Baseline 611 Overview****PRIORITY:**

Vehicle in Shop

MARKET REGION:

U.S., Canada, Europe

PURPOSE:

Flash reprogramming allows the ECU software to be updated without replacing the ECU. Flash calibration updates for specific vehicle models/ECUs are released as field-fix procedures described in individual service bulletins.

This bulletin will be used as a reference guide for technicians to update a vehicle to Baseline 611 by listing software ID numbers as well as the required flash files necessary to update an ECU. A baseline update may only require that certain ECUs be updated. Not all ECUs will have updates in a baseline release. Using this guide, the technician can determine what ECUs have updates and those that do not require it.

CHANGES:

Drivers Information System (DIS) - Update improves the accuracy of range indicator; providing a better representation of mileage left before refilling the gas tank and/or recharging the battery is necessary. BL611 also removes unnecessary warning lights from being displayed when the vehicle is transitioned from OFF to OFF_AWAKE.

Hybrid Control Unit (HCU) - Corrects EV Mode Behavior (**Denmark and Norway Only**)

OVERVIEW:

Drivers Information System (DIS) – ECU Flash Reprogramming

1. Baseline 611 ECU Software Identification Number
2. Baseline 611 FlashApp Cheat Sheet
3. Preparing the Vehicle for ECU Flash Reprogramming
4. Connecting the Fisker Scan Tool and Download BL611 Diagnostic Package
5. DIS Flash Reprogramming with Flash Application Lite

Hybrid Control Unit (HCU) – ECU Flash Reprogramming (Baseline 611) **Denmark and Norway Only**

6. Preparing the Vehicle for ECU Flash Reprogramming
7. Connecting the Fisker Scan Tool and Updating Diagnostic Data
8. Hybrid Control Unit Flash Reprogramming with Flash Application Lite

VCM Tire Pressure Monitor Recalibration Files

VCM Door E-Latch Configuration Files

SPECIAL TOOLS REQUIRED:

1. FST9001 – Battery Charging Terminal Adaptor
2. Midtronics MDX Series Tester (or equivalent)

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VIN: All vehicles produced prior to Baseline 611

[illegible]

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Drivers Information System (DIS) – ECU Flash Reprogramming

Baseline 611 ECU Software Identification Number

ECU	Software Version (611)
VGM	0350-04-00
VCM	0002-05-01
CIU	05.02.07.00 (Check TPI Screen)
TPI	0031-01-10
DIS	0041-01-28
EPB	0061-00-02
EBCM T1	0070-03-04
EBCM T3	0071-03-08
HCU	0111-04-0A
HCU Scandinavia	0116-00-01
ECM EU	0121-04-01
ECM US	0121-05-00
BECD	0156-00-14
HVAC	0162-00-08
PIM_TM1 Aux	0282-01-02
PIM_TM1 Master	0281-06-06
PIM_TM2 Aux	0292-01-02
PIM_TM2 Master	0291-06-06
PIM_GEN Aux	0302-01-02
PIM_GEN Master	0301-06-06
APM	0311-01-00

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Baseline 611 FlashApp Cheat Sheet

Use this sheet as a quick reference guide when flashing a vehicle to Baseline 611. **ECUs in bold font need to be updated.** ECUs in Gray font do not need to be updated in this release. Flashing of the other ECUs is not required unless the ECUs software ID does not match the Baseline 611 ECU Software Identification Number chart on page 2.

EBCM: T1 (Flash in System Ready)	
SBL	EBCM_SBL_0072_00_00.zip
APP	EBCM_APP_0070_03_04.zip
CAL	EBCM_CAL_0076_03_04.zip

EBCM: T3 (Flash in System Ready)	
SBL	EBCM_SBL_0074_00_00.zip
APP	EBCM_APP_0071_03_08.zip
CAL	EBCM_CAL_0077_03_08.zip

VGM- IMPORTANT! Flash BEFORE the VCM	
SBL	VGM_SBL_0352_00_00.zip
APP	VGM_APP_0350_04_00.zip
CAL	<choose file>

VCM- IMPORTANT! Flash AFTER the VGM	
SBL	VCM_SBL_0003_00_00.zip
APP	VCM_APP_0002_05_01.zip
CAL	<choose file>

Driver Information System	
SBL	DIS_SBL_0044_00_00.zip
APP	DIS_APP_0041_01_28.zip
CAL	<choose file>

Touch Panel Interface	
SBL	TPI_SBL_0032_00_00.zip
APP	TPI_APP_0031_01_10.zip
CAL	<choose file>

Hybrid Control Unit	
SBL	HCU_SBL_0114_00_00.zip
APP	HCU_APP_0111_04_0A.zip
CAL	<choose file>

HCU - EV (Denmark and Norway ONLY)	
SBL	HCU_SBL_0114_00_00.zip
APP	HCU_APP_0116_00_01.zip
CAL	<choose file>

PIM TM1 - Aux	
SBL	TM1_SBL_0284_01_00.zip
APP	TM1_AUX_0282_01_02.zip
CAL	<choose file>

PIM TM1 - Master	
SBL	TM1_SBL_0284_01_00.zip
APP	TM1_APP_0281_06_06.zip
CAL	<choose file>

PIM TM2 - Aux	
SBL	TM2_SBL_0292_01_00.zip
APP	TM2_AUX_0292_01_02.zip
CAL	<choose file>

PIM TM2 - Master	
SBL	TM2_SBL_0294_01_00.zip
APP	TM2_APP_0291_06_06.zip
CAL	<choose file>

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CIU - Navigation Patch Insert Step 1 Flash drive into center console USB port (See Bulletin 39011016.02)	
SBL	CIU_SBL_002A_00_00.zip
APP	CIU_APP_0021_05_08.zip
CAL	CIU_DSC_Navigation_11_12_05.dsc.hex
CIU - Software Update Insert Step 2 Flash drive into center console USB port (See Bulletin 39011016.02)	
SBL	CIU_SBL_002A_00_00.zip
APP	CIU_APP_0021_05_08.zip
CAL	CIU_CAL_002B_00_00.dsc.hex

BECM	
SBL	BECM_SBL_0154_00_03.zip
APP	BECM_APP_0156_00_14.zip
CAL	BECM_CAL_014F_00_00.dsc.hex

Engine Control Module - ECE (Europe)	
SBL	<choose file>
APP	ECM_APPCAL_0121_04_01+0127_04_04.zip
CAL	<choose file>
THEN FLASH	
SBL	<choose file>
APP	<choose file>
CAL	ECM_CAL_0126_04_00.zip

Engine Control Module - US Market	
SBL	<choose file>
APP	ECM_APPCAL_0121_05_00+0127_05_00.zip
CAL	<choose file>

PIM GEN - Aux	
SBL	GEN_SBL_0304_01_00.zip
APP	GEN_AUX_0302_01_02.zip
CAL	<choose file>

PIM GEN - Master	
SBL	GEN_SBL_0304_01_00.zip
APP	GEN_APP_0301_06_06.zip
CAL	<choose file>

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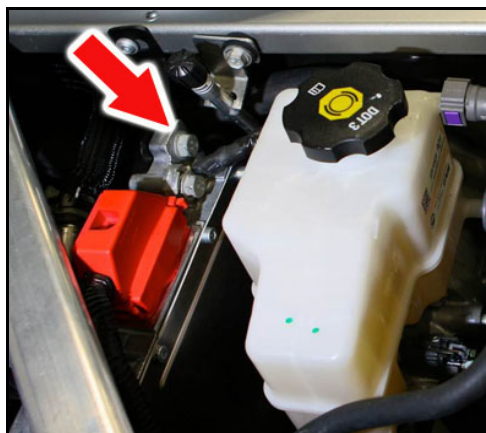
Preparing the Vehicle for ECU Flash Reprogramming

3a. Disconnect the vehicle from the High Voltage wall charger

3b. If the low-voltage Battery is not at least 12.2 volts, you must charge battery. Connect the positive lead of the Midtronics MDX series tester (or equivalent) to the B+ positive post at the Power Distribution Center (PDC) with Fisker Special Tool **FST9001 – Battery Charging Terminal Adaptor** (to be used for all electrical system testing and charging). Connect the – Negative lead to the Accessory Power Module (APM) ground terminal.



FST9001 - Battery Charging Terminal Adaptor (red arrow) installed on the B+ post in the PDC.



Negative chassis ground (red arrow) location on Accessory Power Module (APM).

NOTE: Battery voltage must be maintained between 12.2 and 16 volts while flashing.

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3c. Before flash reprogramming can be started; the vehicle must be in the ACC – Accessory mode.
- With the vehicle completely off, press the SSB – Start/Stop Button once. The SSB backlighting will turn amber and the DIS will display “ACC.”

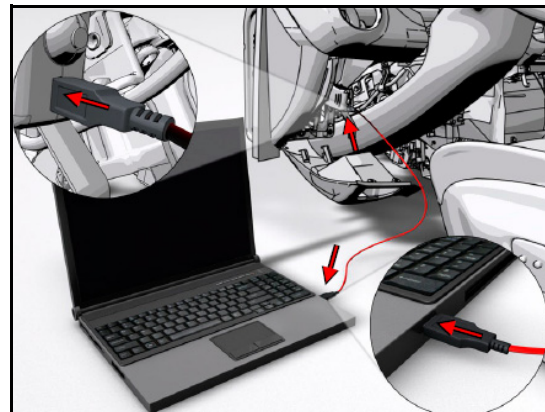
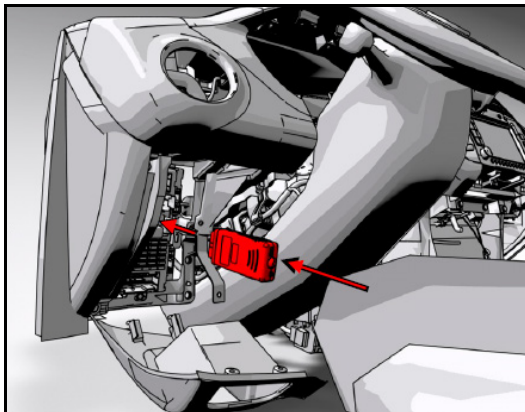
3d. When an ECU is being reprogrammed; the vehicle must be prevented from going into Sleep mode. This can be accomplished simply by turning on the Hazard Warning Lights.

NOTE: If the vehicle goes into sleep mode while the ECU is being reprogrammed; the reprogramming may be unsuccessful and can potentially damage the ECU.

Connecting the Fisker Scan Tool and Download BL611 Diagnostic Package

4a. Connect the WDI to the Data Link Connector (DLC) located underneath the Driver's side dash. Then connect the WDI to the Fisker laptop with the provided USB cable.

NOTE: The laptop will automatically install the drivers needed. Please wait for this to finish before continuing.



NOTE: It is highly recommended to use the USB when flash reprogramming the ECU. It is faster and more reliable than using the Bluetooth connection.

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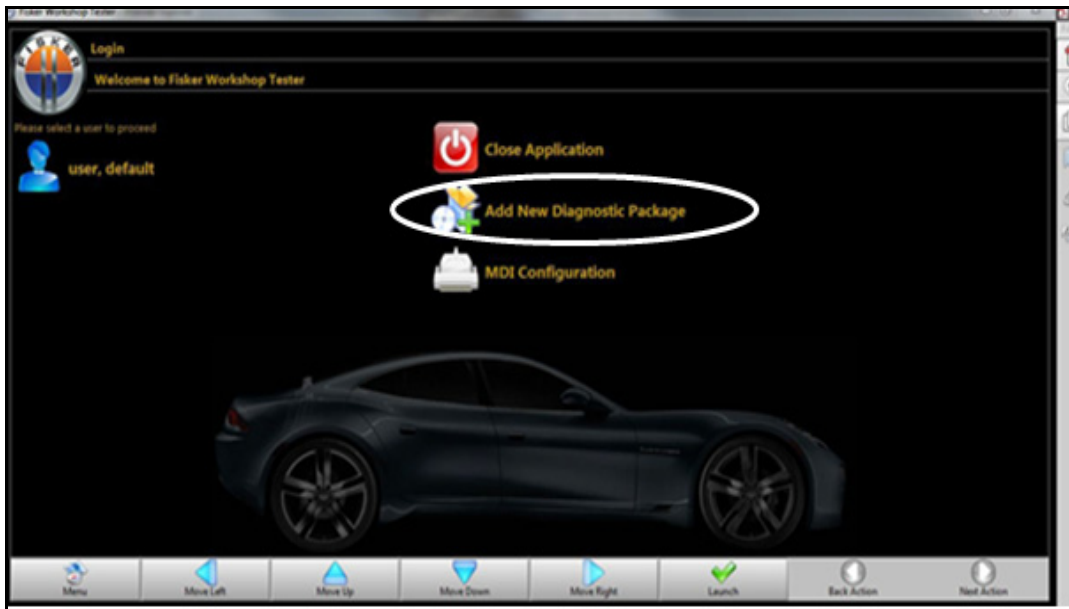
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4b. Before flash reprogramming, ensure your laptop is updated with the latest software.

4c. From the main menu of the FiskerWT program, click on “Add New Diagnostic Package.”



4d. Press the “Download ODX” Button to download Version 611. This will open a window showing the download progress. Please wait until the download is complete before continuing.

4e. Next press the “Download Descriptors” button. After the dialog box dismisses, a number of deliverables should be shown on the left side.

4f. Select the descriptor that you want to install and select the “Download” button. This will open a window showing the download progress. Please wait until the download is complete before continuing.

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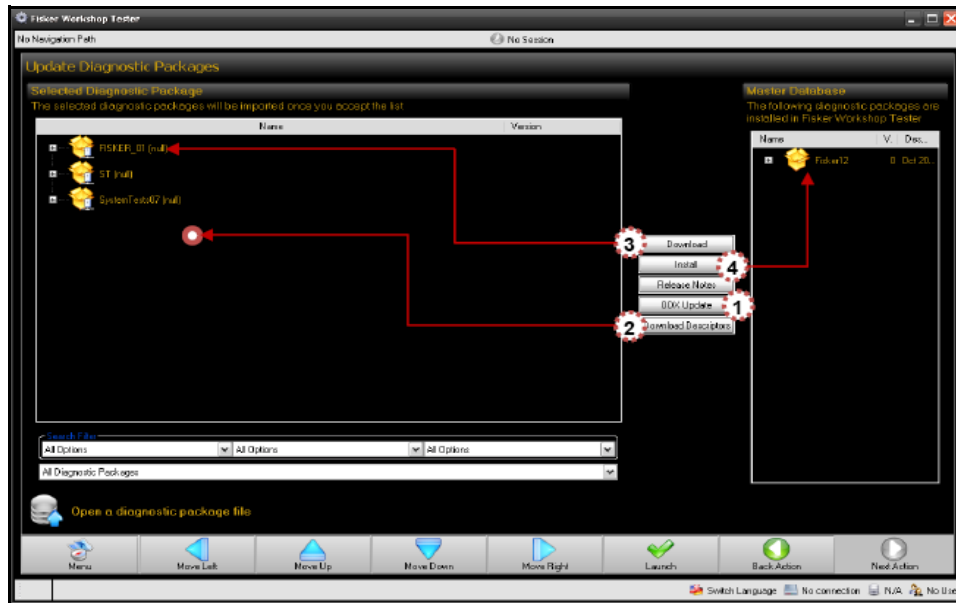
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4g. After the download of the descriptor is complete, select the “Install” button or double click on the deliverable. As a result, the deliverable will be shown on the right hand side, indicating it is installed to the laptop.



4h. Select Back Action to return to the main menu once the update is complete.

4i. Select “user, default” to move on to the MDI Configuration screen.

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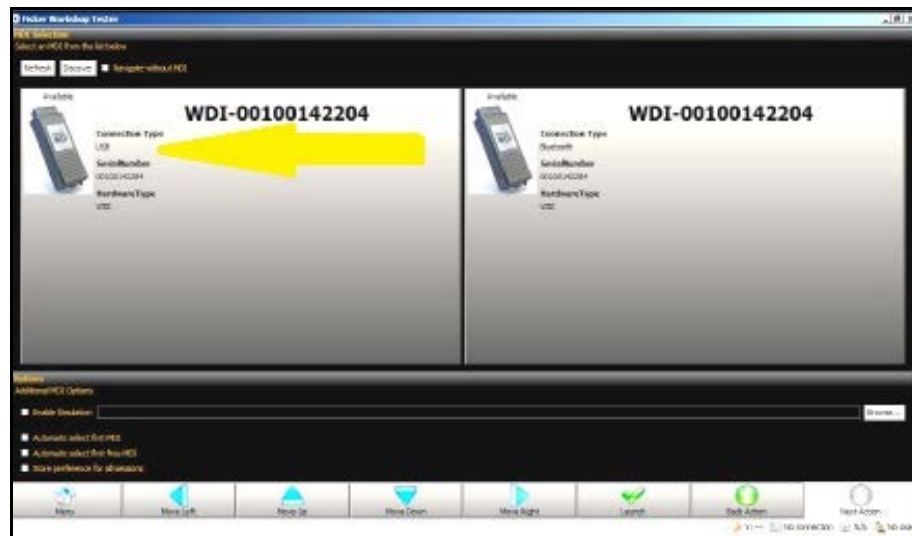
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4j. Select WDI (Connection Type - USB) by clicking on it once. When the gray box turns green, the WDI is ready to use.



NOTE: There may be new firmware to install depending on when you have last connected. By selecting the WDI connected via the USB cable, any new firmware will install automatically. When the installation is complete, the MDI selection menu will refresh automatically.



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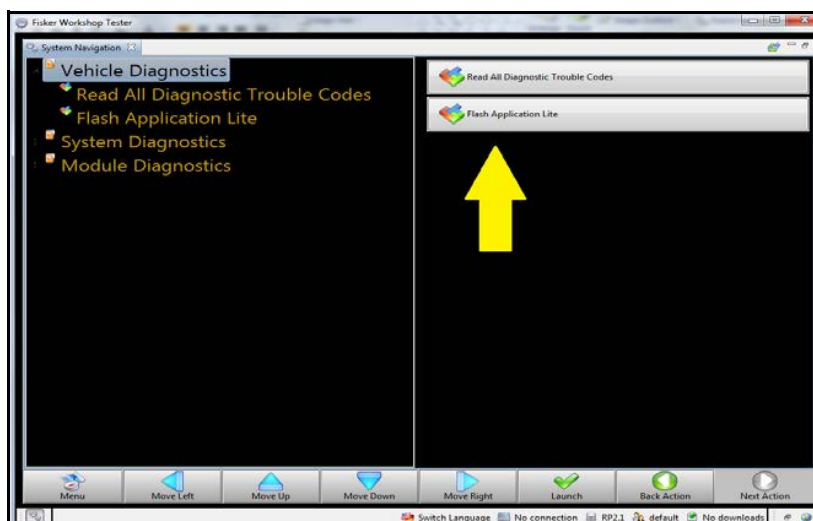
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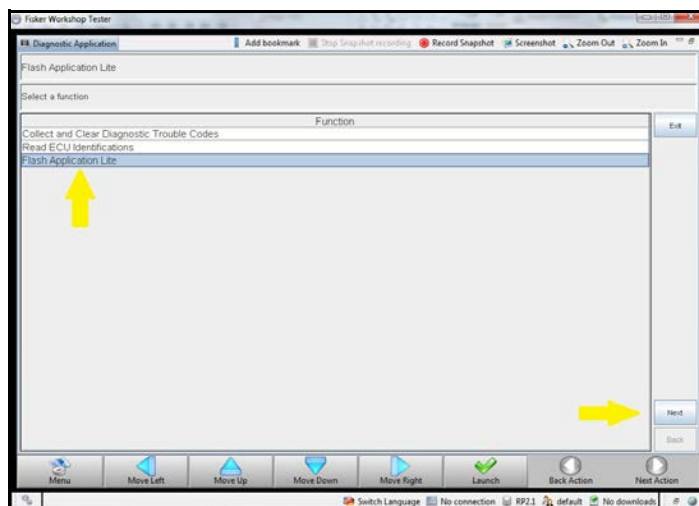
4k. With a WDI selected, click on "Next Action" to move to the VIN Entry Screen. Enter the vehicle information to continue.

DIS Flash Reprogramming with Flash Application Lite

5a. After opening FiskerWT and entering the vehicle information; select Flash Application Lite in the System Navigation menu.



5b. Click once to highlight "Flash Application Lite" and then click on "Next" in the bottom right hand corner to continue.



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5c. In the next screen, select Driver Information System – DIS as the ECU to be flashed. Consult the FlashApp Cheat Sheet to determine the flash files required to update the ECU to the desired baseline level.

NOTE: Not all ECUs will have updates in a baseline release. Consult the latest Baseline Release Guide to find the latest software available for an ECU.

ECU	Driver Information System	
SBL	DIS_SBL_0044_00_00.zip	
APP	DIS_APP_0041_01_28.zip	
CAL	<choose file>	
Exit	Start Flash	EBCM-Refla...

5d. Using the FlashApp Cheat Sheet below, select the necessary files from the drop down menus:

Driver Information System	
SBL	DIS_SBL_0044_00_00.zip
APP	DIS_APP_0041_01_18.zip
CAL	<choose file>

Baseline 611 DIS Flash Files



WARNING: DO NOT ALLOW LAPTOP TO GO INTO SLEEP OR SCREENSAVER MODE DURING THIS PROCESS. TURN OFF SCREEN SAVER IF NECESSARY AND ENSURE PC STAYS AWAKE. LAPTOP MUST BE PLUGGED INTO AC SOURCE DURING THIS PROCESS.

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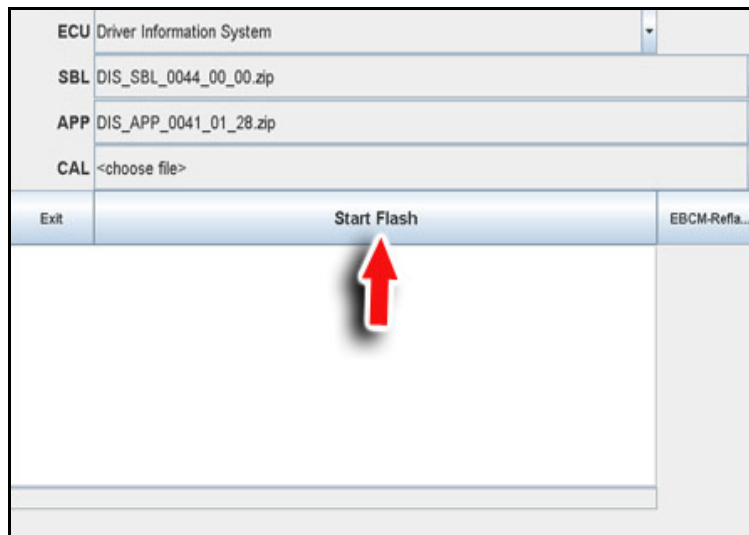
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5e. After verifying that the correct files are selected, begin the update by clicking on the “Start Flash” button.



5f. The scan tool will begin to reprogram the ECU once “Start Flash” has been clicked. In the message box, you will be alerted to the status of the flash.

Example: “Prepare vehicle for flash...” and “Starting flash...”

NOTE: When flash reprogramming the DIS, it is normal for it turn on and off.



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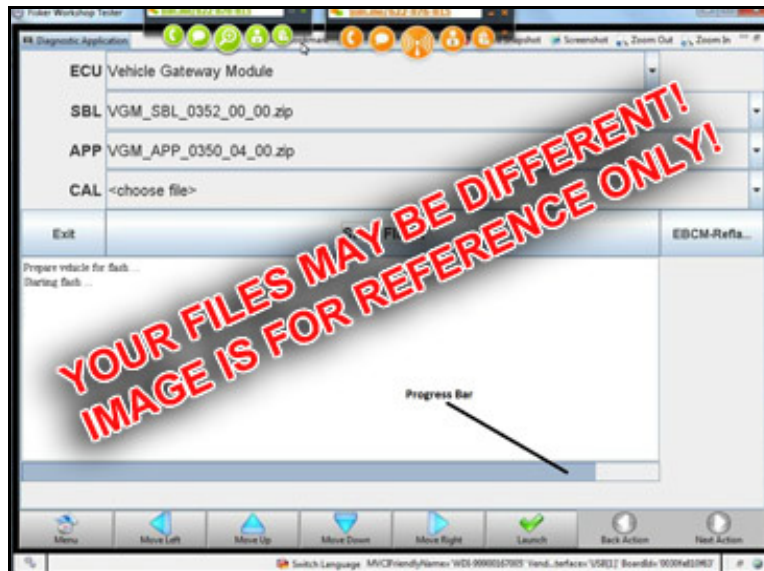
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WARNING! DO NOT DISTURB THE VEHICLE OR INTERRUPT THE CONNECTION BETWEEN THE SCAN TOOL AND THE VEHICLE ONCE FLASHING HAS STARTED.

THE PROGRESS BAR MAY LOOK FROZEN – THIS IS NORMAL. IF THERE IS A PROBLEM YOU WILL BE ALERTED THAT THE FLASH HAS BEEN UNSUCCESSFUL.



Example

NOTE: The amount of time it takes to flash an ECU will vary, but may take up to 1 hour.

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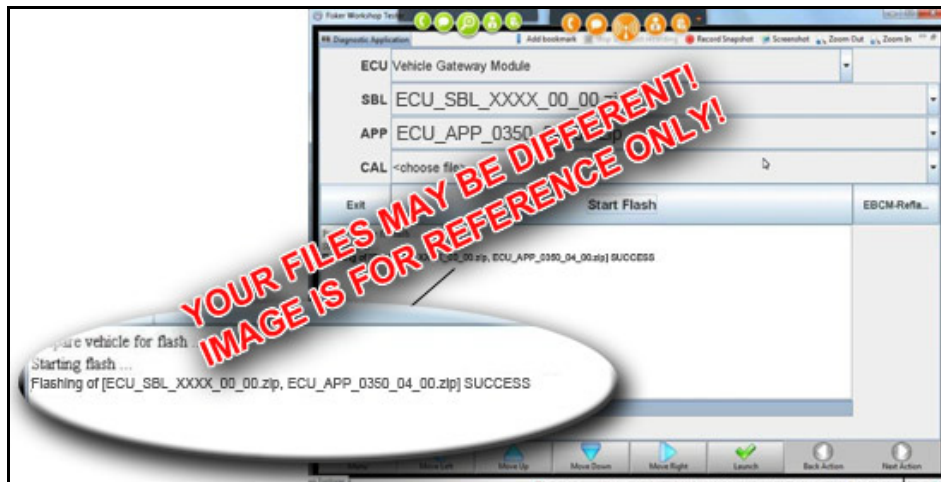
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5g. When the ECU flash reprogramming has finished; you will be prompted with a message similar to:

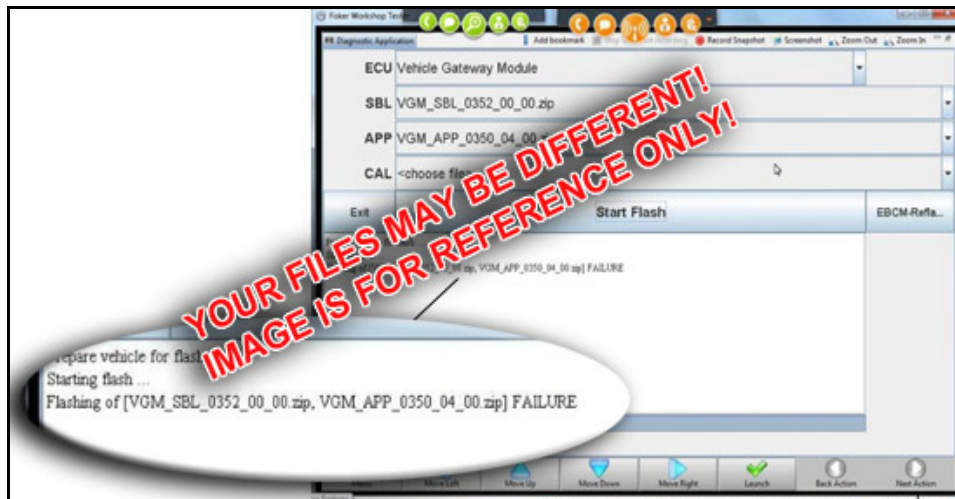
*"Flashing of [ECU_SBL_XXXX_00_00.zip, ECU_APP_0350_04_00.zip] **SUCCESS**"*



Example

If the flashing of the ECU has failed, you will see a message such as:

*"Flashing of [ECU_SBL_XXXX_00_00.zip, ECU_APP_0350_04_00.zip] **FAILURE**"*



Example

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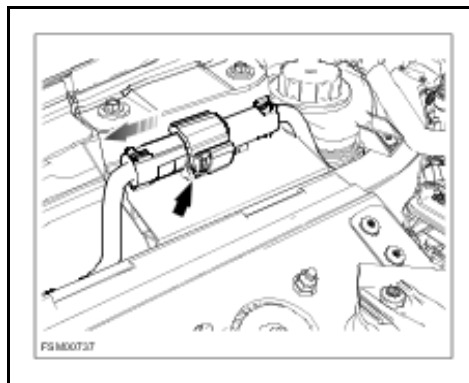
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5h. If the attempt to flash an ECU is unsuccessful, verify:

- The correct files are selected for the DIS.
- The 12 Volt battery is fully charged with a battery maintainer connected.
- The vehicle is in ACC mode.
- The hazard warning lights are turned on to keep the vehicle from falling asleep.

5i. When the ECU flash reprogramming has been completed successfully, exit the Flash Application Lite menu.

5j. Power down the vehicle, open the hood and unplug the 12 Volt Battery Negative Disconnect C104 (shown below) by unclipping and pulling connector apart.



12 Volt Battery Negative Connector C104

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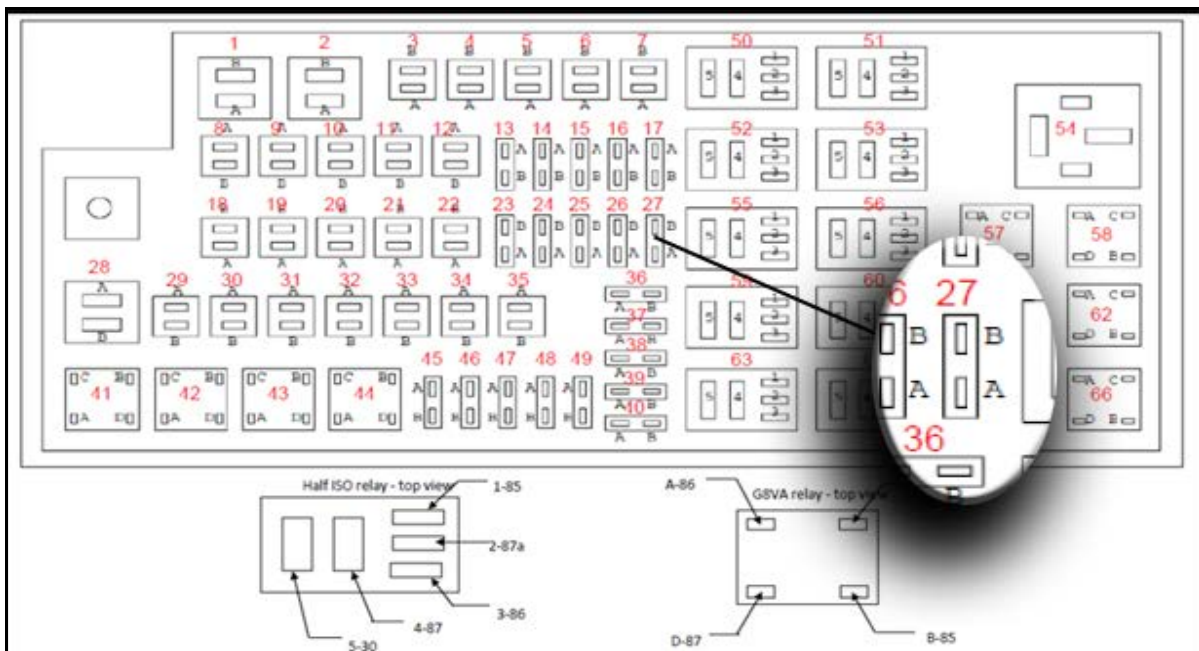
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5k. With the battery disconnected, remove Fuse 27 (25 amp) from the Power Distribution Center. This will disable the Solar Panel from powering the 12 Volt battery.

- Let the vehicle sit for 10 minutes to clear the memory cache in the ECUs.

5l. Reconnect the 12 Volt battery via connector C104 and install Fuse 27 (25 amps).



5m. Turn the vehicle back on to System Ready mode.

- If the MIL light is displayed, turn the vehicle off. Vehicle needs to go to sleep and then wake up to ready mode three times. Watch DSU to verify vehicle has gone to sleep.

NOTE: If MIL light is still displayed, use the scan tool to read valid DTC codes and diagnose accordingly.

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NUMBER: 390110015.01

MODEL: Karma

DATE: January 9, 2012

MODEL YEAR: 2012

TITLE: Baseline 611 Overview

Hybrid Control Unit (HCU) – ECU Flash Reprogramming (Baseline 611) Denmark and Norway Only

Preparing the Vehicle for ECU Flash Reprogramming

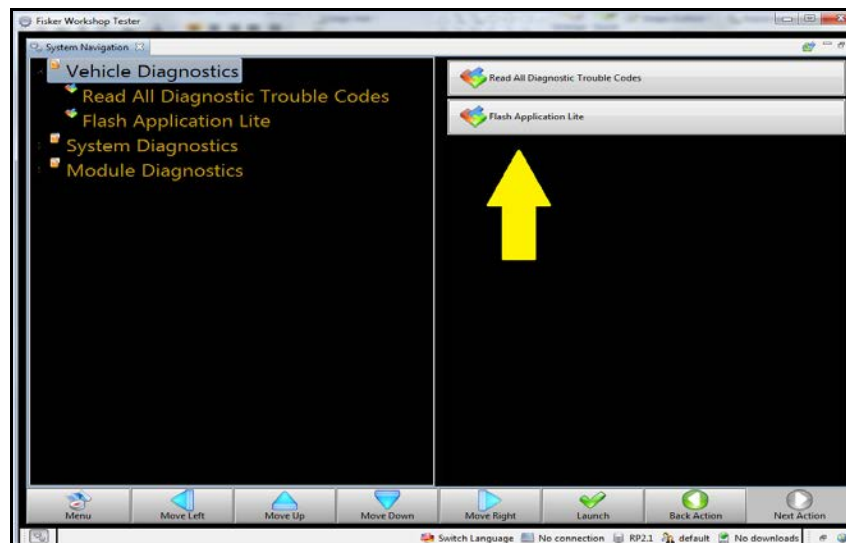
6a. To perform this procedure, see steps 3a – 3d outlined on Pages 6 and 7 of this document.

Connecting the Fisker Scan Tool and Updating Diagnostic Data

7a. To perform this procedure, see steps 4a – 4k outlined on pages 7 through 11 of this document.

Hybrid Control Unit Flash Reprogramming with Flash Application Lite

8a. After opening FiskerWT software and entering the vehicle information; select Flash Application Lite under the Vehicle Diagnostics category in the System Navigation menu.



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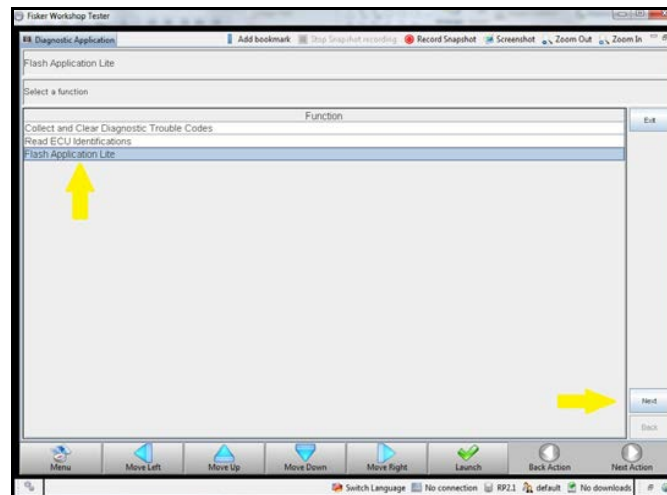
MODEL: Karma

DATE: January 9, 2012

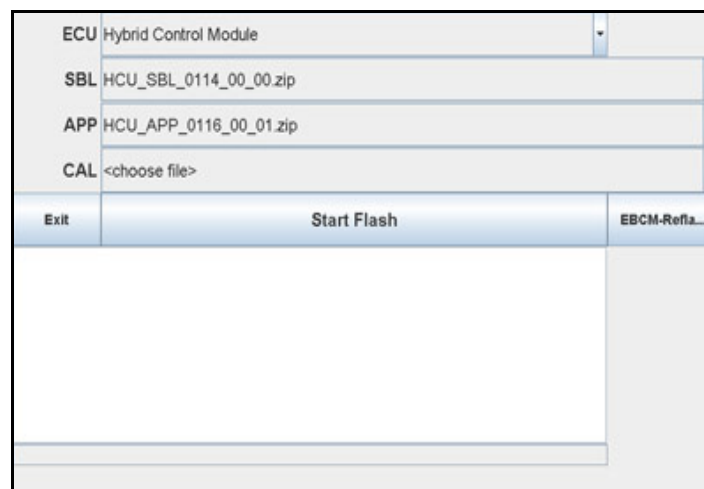
MODEL YEAR: 2012

TITLE: Baseline 611 Overview

8b. Click once to highlight "Flash Application Lite." Click "Next" in the bottom right hand corner of the screen to continue.



8c. In the next screen, select the following from the drop down menus:



Example

ECU	Hybrid Control Module
SBL	HCU_SBL_0114_00_00.zip
APP	HCU_APP_0116_00_01.zip
CAL	<choose file>

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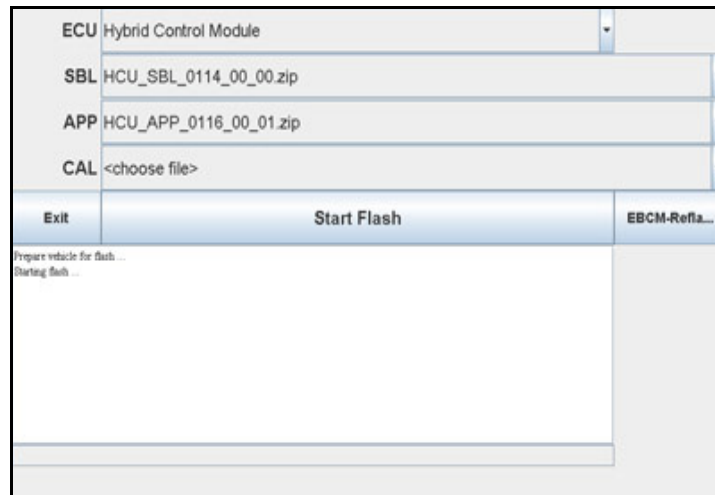
MODEL: Karma

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MODEL YEAR: 2012

TITLE: Baseline 611 Overview

8d. Once the correct files to flash the HCU to Baseline 611 **(Denmark and Norway Only)** have been selected; Press the “Start Flash” button to begin.



8e. The scan tool will begin to reprogram the HCU once “Start Flash” has been clicked. In the message box, you will be alerted to the status of the flash.

Example: “Prepare vehicle for flash...” and “Starting flash...”



WARNING! DO NOT DISTURB THE VEHICLE OR INTERRUPT THE CONNECTION BETWEEN THE SCAN TOOL AND THE VEHICLE ONCE FLASHING HAS STARTED.

THE PROGRESS BAR MAY LOOK FROZEN – THIS IS NORMAL. IF THERE IS A PROBLEM YOU WILL BE ALERTED THAT THE FLASH HAS BEEN UNSUCCESSFUL.

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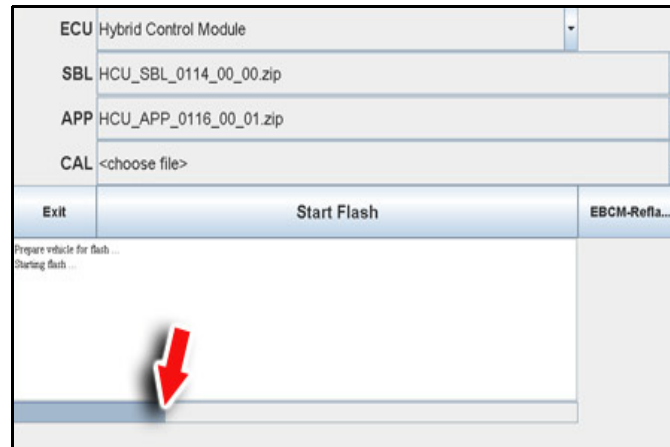
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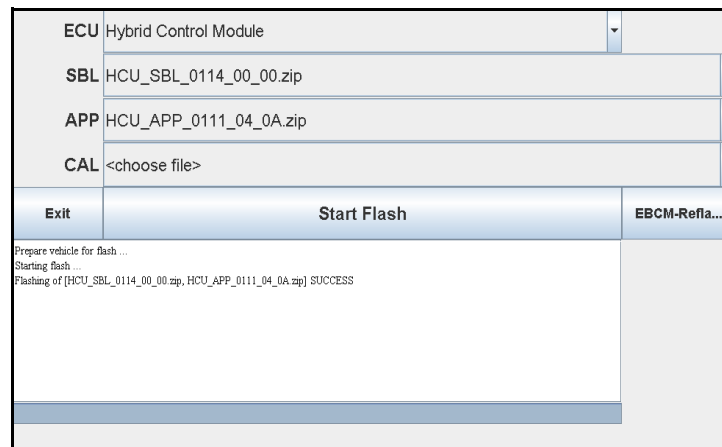
TITLE: Baseline 611 Overview



NOTE: The amount of time it takes to flash an ECU will vary, but may take up to 1 hour.

8f. When the ECU flash reprogramming has finished; you will be prompted with a message similar to:

*"Flashing of [ECU_SBL_XXXX_00_00.zip, ECU_APP_0350_04_00.zip] **SUCCESS**"*



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TITLE: Baseline 611 Overview

8g. When the ECU flash reprogramming has been completed, exit the Flash Application Lite menu.

- If the flashing of the ECU has failed, you will see a message such as:

"Flashing of [ECU_SBL_XXXX_00_00.zip, ECU_APP_0350_04_00.zip] FAILURE"

ECU	Hybrid Control Module	
SBL	HCU_SBL_0114_00_00.zip	
APP	HCU_APP_0116_00_01.zip	
CAL	<choose file>	
Exit	Start Flash	EBCM-Refla...
Prepare vehicle for flash ... Starting flash ... Flashing of [HCU_SBL_0114_00_00.zip, HCU_APP_0116_00_01.zip] FAILURE		

8h. If the attempt to flash an ECU is unsuccessful, verify:

- The correct files are selected for the HCU.
- The 12 Volt battery is fully charged with a battery maintainer connected.
- The vehicle is in ACC mode.
- The hazard warning lights are turned on to keep the vehicle from falling asleep.

8i. When the flash reprogramming has been completed, exit the Flash Application Lite menu.

NOTE: It may take several attempts to successfully flash an ECU.

8j. Power down the vehicle, open the hood and unplug the 12 Volt Battery Negative Disconnect C104 (shown below) by unclipping and pulling connector apart.

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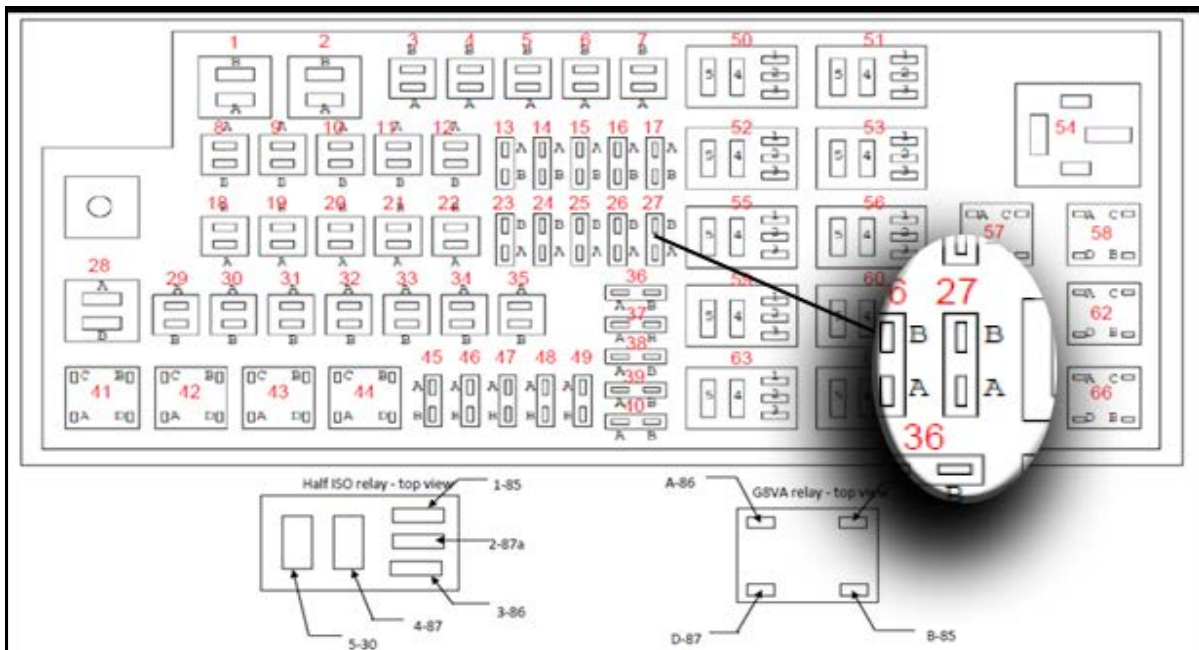
MODEL YEAR: 2012

TITLE: Baseline 611 Overview

8k. With the 12 Volt battery disconnected, remove Fuse 27 (25 amp) from the Power Distribution Center (PDC). This will disable the Solar Panel from powering the 12 Volt battery.

- Let the vehicle sit for 10 minutes to clear the memory cache in the ECUs.

8l. Reconnect the 12 Volt battery via connector C104 and install Fuse 27 (25 amps).



8m. Turn the vehicle back on to System Ready mode.

- If the MIL light is displayed, turn the vehicle off and then on 3 times to clear the MIL.

NOTE: If MIL light is still displayed, use the scan tool to read valid DTC codes and diagnose accordingly.

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NUMBER: 390110015.01

MODEL: Karma

DATE: January 9, 2012

MODEL YEAR: 2012

TITLE: Baseline 611 Overview

Vehicle Control Module (VCM) Tire Pressure Monitor Recalibration Files

Condition: The rear TPMS sensor is illuminated when the tire pressure is lower than 32 PSI.

Cause: On some vehicles, the VCM was configured to use the front tire pressure settings for the rear TPMS sensors. To verify this; deflate one rear tire to be between 28 and 32 psi. The TPMS light should then come on for that tire. Inflate the same tire to above 32 psi. The TPMS light will turn off.

Solution: With the Fisker Service Tool, select the Vehicle Control Module in Flash Application Lite. Select VCM_CAL_TPMS_11_12_05.dsc.hex in the calibration field. Leave all other fields blank and begin the flash. This will reconfigure the VCM to use the correct settings for the rear TPMS sensors.

ECU	Vehicle Control Module
SBL	<choose file>
APP	<choose file>
CAL	VCM_CAL_TPMS_11_12_05.dsc.hex

Verification of Repair: Deflate one of the rear tires so that the pressure is set between 28 and 32 psi. The TPMS light should not be present.

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TITLE: Baseline 611 Overview

VCM Door E-Latch Configuration Files

Condition: The LF, RF, LR, or RR door E-Latch is inoperative and the Malfunction Indicator Lamp (MIL) is illuminated. One or more of the following DTCs are set:

- B1C22 - FET EltchLF Life Count Fault Limit
- B1C23 - FET EltchLR Life Count Fault Limit
- B1C24 - FET EltchRF Life Count Fault Limit
- B1C25 - FET EltchRR Life Count Fault Limit

Cause: The Vehicle Control Module configuration settings have incorrectly been set with a maximum number of attempts to open the door E-Latch.

Solution: With the Fisker Service Tool, select the Vehicle Control Module in Flash Application Lite. Select the applicable VCM calibration files (see below) and begin the flash. The SBL and APP files are not needed for this procedure.

Left Front Door E-Latch

ECU	Vehicle Control Module
SBL	<choose file>
APP	<choose file>
CAL	VCM_CAL_FET_Elatch_DoorLF.dsc

Left Rear Door E-Latch

ECU	Vehicle Control Module
SBL	<choose file>
APP	<choose file>
CAL	VCM_CAL_FET_Elatch_DoorLR.dsc

Right Front Door E-Latch

ECU	Vehicle Control Module
SBL	<choose file>
APP	<choose file>
CAL	VCM_CAL_FET_Elatch_DoorRF.dsc

Right Rear Door E-Latch

ECU	Vehicle Control Module
SBL	<choose file>
APP	<choose file>
CAL	VCM_CAL_FET_Elatch_DoorRR.dsc

Verification of Repair: After flashing the applicable calibration file; the door E-Latch should now operate properly.

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PARTS REQUIRED:

PART NUMBER	DESCRIPTION
N/A	

SHOP SUPPLIES:

DESCRIPTION
Fisker Laptop Scan Tool
WDI with USB Cable Connection

SPECIAL TOOLS:

DESCRIPTION
FST9001 – Battery Charging Terminal Adaptor
Midtronics MDX Series Tester (or equivalent)

LABOR CODES:

CODE	DESCRIPTION	TIME	DEFECT CODE
90-30-01-07	Bulletin 390110015	0.5	90-30-01-98

CAUSAL PART:

PART NUMBER	DESCRIPTION
C131180101002	Driver Information System (DIS) - North American
C131180103002	Driver Information System (DIS) - European

WARRANTY DISPOSITION:

Vehicles with a valid warranty

CONTACT:

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