

**NUMBER: 290120011.01****MODEL: Karma****DATE: February 7, 2012****MODEL YEAR: 2012****TITLE: Baseline 614 Release 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 614 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. Using this guide, the technician can determine what ECUs have updates and those that do not require them.

CHANGES:

Driver Information System – Changes to the DIS in Baseline 614 include the addition of a “Fuel Low” warning message when the fuel level reaches the approximately 20% capacity. The new software update also addresses the following issues: Engine coolant temperature warning light blinking, flickering issue of the central TFT display during the initial animation sequence, “Trip A” not recording mileage, as well as random low fuel warning light displayed while driving.

Hybrid Control Unit – Changes include length of cooling fan on time after shut down to prevent overheating, charger cord present telltale warning light will now turn on when plugging the vehicle into the high voltage wall charger while in System Ready mode. The HCU will now no longer delay the Accessory Power Module from turning on for 3 seconds to aid in 12 volt battery charging.

Power Inverter Module for Traction Motor 1 – Updates the ECU Software Version to display the correct ID (0281-06-08).

Power Inverter Module for Traction Motor 2 – Updates the ECU Software Version to display the correct ID (0291-06-08).

Vehicle Control Module – Reduces the amount of current drawn by the power fold mirrors to prevent motors from failing.

Central Infotainment Unit – Changes to the CIU software include fixes for the following issues: Satellite radio presets, the “Agree” button triggering the volume up button, Bluetooth connectivity/phone call quality concerns, backup camera screen locking up (blue screen on TPI), fan blade image stuck throughout the screens, as well as the excessive speed warning message.

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FISKER AUTOMOTIVE, INC.

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TITLE: Baseline 614 Release Overview

OVERVIEW:

1. Baseline 614 ECU Software Version Identification Chart
2. Baseline 614 ECU Flash Application Quick Reference Sheet
3. Preparing the Vehicle for ECU Flash Reprogramming
4. Connecting the Fisker Scan Tool and Updating Diagnostic Data
5. Driver Information System Flash Procedure (Baseline 614)
6. Hybrid Control Unit and HCU - EV Flash Procedure (Baseline 614)
7. PIM TM1 Flash Procedure (Baseline 614)
8. PIM TM2 Flash Procedure (Baseline 614)
9. Vehicle Control Module Power Mirror Fold Configuration
10. Accessing Central Infotainment Unit Software (Baseline 614)
11. CIU Flash Procedure
12. Verification of CIU Software Update
13. Post ECU Flash Procedure

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1. Baseline 614 ECU Software Version Identification Chart

ECU	Software Version (BL614)
VGM	0350-04-00
VCM	0002-05-02
CIU (Updated)	09.09.09.00 (Check TPI Screen)
TPI	0031-01-11
DIS (Updated)	0041-01-39
EPB	0061-00-02
EBCM T1	0070-03-04
EBCM T3	0071-03-08
HCU (Updated)	0111-04-0B
HCU – EV (Updated)	0116-00-03
ECM	0121-05-00
BECM	0156-00-16
PIM TM1 (Updated)	0281-06-08
PIM TM2 (Updated)	0291-06-08
PIM GEN	0301-06-08
APM	0311-01-00

NOTE: The CIU, DIS, HCU, HCU – EV, PIM TM1, and PIM TM2 are the only ECUs that have updates in Baseline 614. Compare the Software Version IDs on the vehicle to the table above; update as necessary.

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2. Baseline 614 ECU Flash Application Quick Reference Sheet

The following quick reference guide should be used for vehicles that are being updated to Baseline 614. This quick reference sheet will be used for two reasons:

2a. Updating a 2012 Fisker Karma (software level BL613.5 or older) to BL614 software level (latest available).

2b. In the event an ECU requires replacement/reflashing, this guide provides the latest available software (614).

How to Use the Quick Reference Sheet:

IMPORTANT! READ BEFORE FLASHING!

The ECU tables that are in **BOLD** font indicate an ECU that has been updated in this release. To successfully update a vehicle's software level to 614, flash the updated ECUs (**CIU, DIS, HCU, HCU – EV, PIM TM1, and PIM TM2**) using the files listed in this guide.

Unless otherwise instructed, all ECUs should be flashed while the vehicle is in ACC mode with the Hazard Warning Lights turned on to prevent the vehicle from falling asleep.

All other ECUs should not be flashed unless the Software Version IDs do not match the chart on Page 4 of this service bulletin. These ECUs will be listed in a **GREY** font.

NOTE: Pay attention to any text in **RED** font. These are important notes that will aid in successfully flashing the ECU.



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ECU	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

ECU	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

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

ECU	Driver Information System
SBL	DIS_SBL_0044_00_00.zip
APP	DIS_APP_0041_01_39.zip
CAL	<choose file>

ECU	BECM
SBL	BECM_SBL_0154_00_03.zip
APP	BECM_APP_0156_00_16.zip
CAL	BECM_CAL_014F_00_00.dsc.hex

ECU	Hybrid Control Unit
SBL	HCU_SBL_0114_00_00.zip
APP	HCU_APP_0111_04_0B.zip
CAL	<choose file>

ECU	HCU – EV (Denmark & Norway ONLY)
SBL	HCU_SBL_0114_00_00.zip
APP	HCU_APP_0116_00_03.zip
CAL	<choose file>

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

ECU	VCM – IMPORTANT! Flash AFTER the VGM
SBL	VCM_SBL_0003_00_00.zip
APP	VCM_APP_0002_05_02.zip
CAL	<choose file>

THEN FLASH

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

ECU	Vehicle Control Module
VCM Configuration Files (Flash After VCM ECU Reset)	
<i>North America With Backup Camera</i>	
SBL	<choose file>
APP	<choose file>
CAL	VCM_DSC_C012_NA_CONFIG_W_CAMERA.dsc.hex

<i>North America Without Backup Camera</i>	
SBL	<choose file>
APP	<choose file>
CAL	VCM_DSC_C012_NA_CONFIG_WO_CAMERA.dsc.hex

<i>Europe With Backup Camera</i>	
SBL	<choose file>
APP	<choose file>
CAL	VCM_DSC_C012_EU_CONFIG_W_CAMERA.dsc.hex

<i>Europe Without Backup Camera</i>	
SBL	<choose file>
APP	<choose file>
CAL	VCM_DSC_C012_EU_CONFIG_WO_CAMERA.dsc.hex

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ECU	Touch Panel Interface
SBL	TPI_SBL_0032_00_00.zip
APP	TPI_APP_0031_01_11.zip
CAL	<choose file>

ECU	PIM TM1 (Aux)
SBL	TM1_SBL_0284_01_00.zip
APP	TM1_AUX_0282_01_02.zip
CAL	<choose file>

THEN FLASH

ECU	PIM TM1 (Aux)
SBL	<choose file>
APP	<choose file>
CAL	TM1_AUX_ENABLE.dsc.hex

THEN FLASH

ECU	PIM TM1 (Master)
SBL	TM1_SBL_0284_01_00.zip
APP	TM1_APP_0281_06_08.zip
CAL	<choose file>

ECU	PIM TM2 (Aux)
SBL	TM2_SBL_0294_01_00.zip
APP	TM2_AUX_0292_01_02.zip
CAL	<choose file>

THEN FLASH

ECU	PIM TM2 (Aux)
SBL	<choose file>
APP	<choose file>
CAL	TM2_AUX_ENABLE.dsc.hex

THEN FLASH

ECU	PIM TM2 (Master)
SBL	TM2_SBL_0294_01_00.zip
APP	TM2_APP_0291_06_08.zip
CAL	<choose file>

NOTE: When flashing PIM TM1, PIM TM2, and PIM GEN; the Aux files must be flashed before the Master files are flashed.

ECU	PIM GEN (Aux)
SBL	GEN_SBL_0304_01_00.zip
APP	GEN_AUX_0302_01_02.zip
CAL	<choose file>

THEN FLASH

ECU	PIM GEN (Aux)
SBL	<choose file>
APP	<choose file>
CAL	GEN_AUX_ENABLE.dsc.hex

THEN FLASH

ECU	PIM GEN (Master)
SBL	GEN_SBL_0304_01_00.zip
APP	GEN_APP_0301_06_08.zip
CAL	<choose file>

ECU	Central Infotainment Unit
Insert Step 1 Flash drive into center console USB port.	
SBL	CIU_SBL_002A_00_00.zip
APP	CIU_APP_0021_05_12.zip
CAL	CIU_CAL_002B_00_00.dsc.hex

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3. Preparing the Vehicle for ECU Flash Reprogramming

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

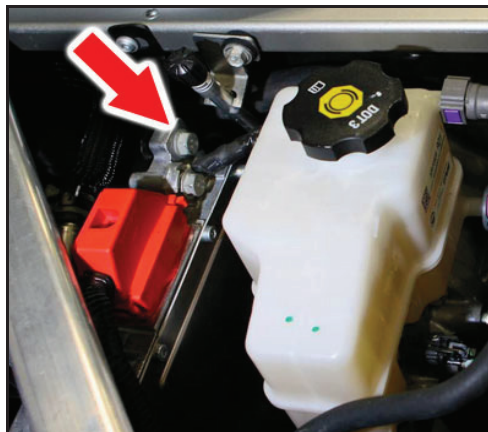
3b. Verify the vehicle's 12 volt battery is at or above 12.2 volts before proceeding.

NOTE: *If the low-voltage Battery is not at least 12.2 volts, you must charge battery.*

– For checking voltage, 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).

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- For charging, connect a battery charger using the B+ positive post at the Power Distribution Center (PDC) with Fisker special tool **FST9001 – Battery Charging Terminal Adaptor**. Connect the – Negative lead to the Accessory Power Module (APM) ground terminal.

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

3c. Before ECU flash reprogramming can be started; the vehicle must be in the ACC – Accessory mode unless otherwise stated.

- 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 the 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.

- Once the flash has started, do not disturb the vehicle by opening/closing doors, turning on unnecessary accessories or 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.

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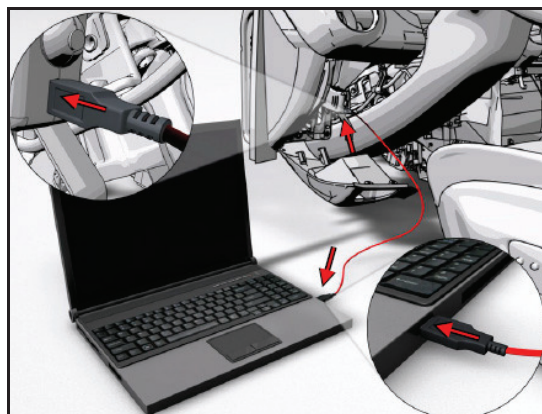
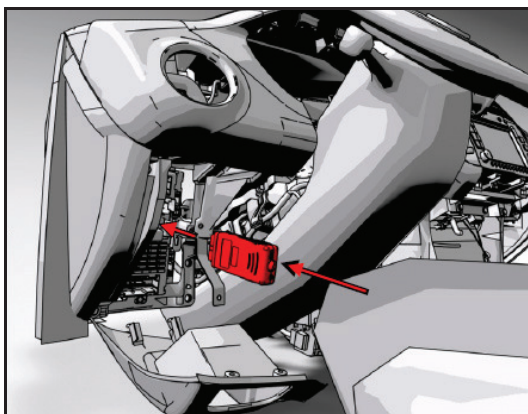
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4. Connecting the Fisker Scan Tool and Updating Diagnostic Data

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

NOTE: The USB cable must be used when flashing and ECU.



4b. Before ECU flash reprogramming, ensure your laptop is updated with the latest diagnostic data package/ECU software.

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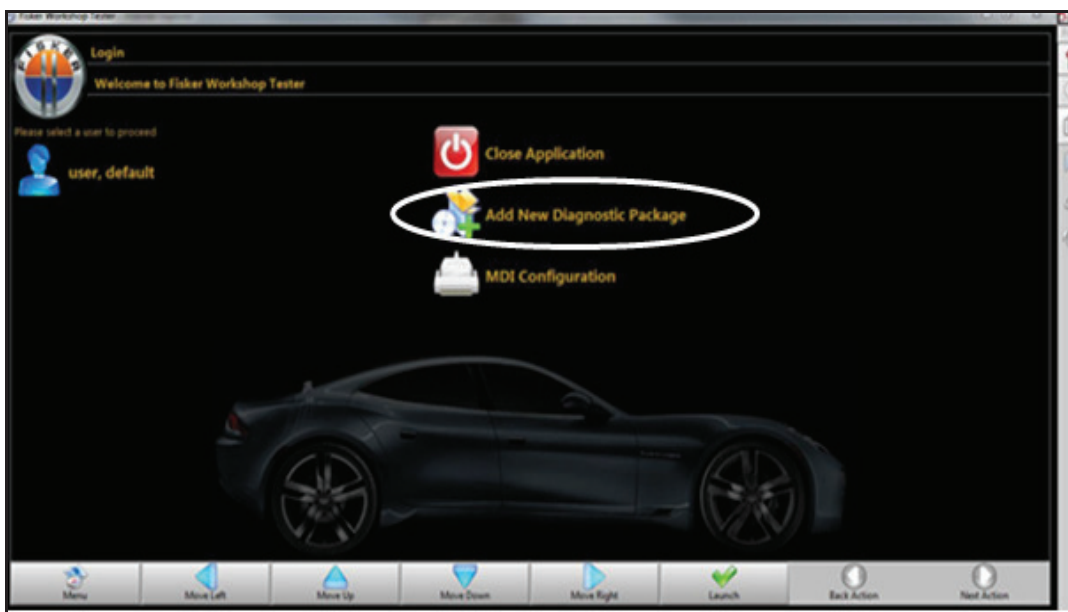
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4c. Open the FiskerWT software. Update by clicking the “*Add New Diagnostic Package*” Icon from the main screen.



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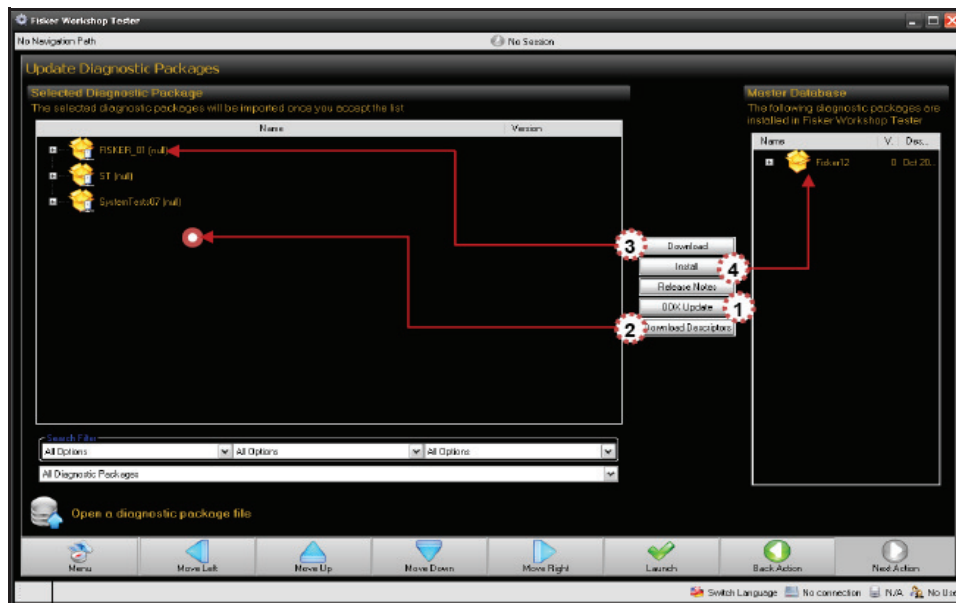
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4g. After the download of the deliverable is complete, select the “Install” button or double click on the deliverable. As a result, the deliverable will be shown on the right hand side, indicating it is installed to the laptop.



NOTE: It is recommended to perform this update procedure frequently as new diagnostic packages will be released often. Completing this procedure before using the Fisker scan tool ensures that you have the latest data available.

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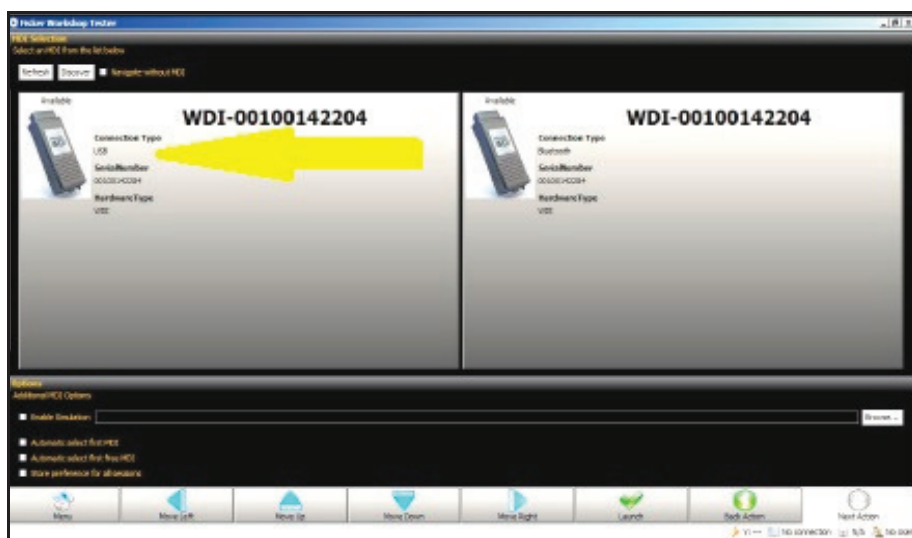
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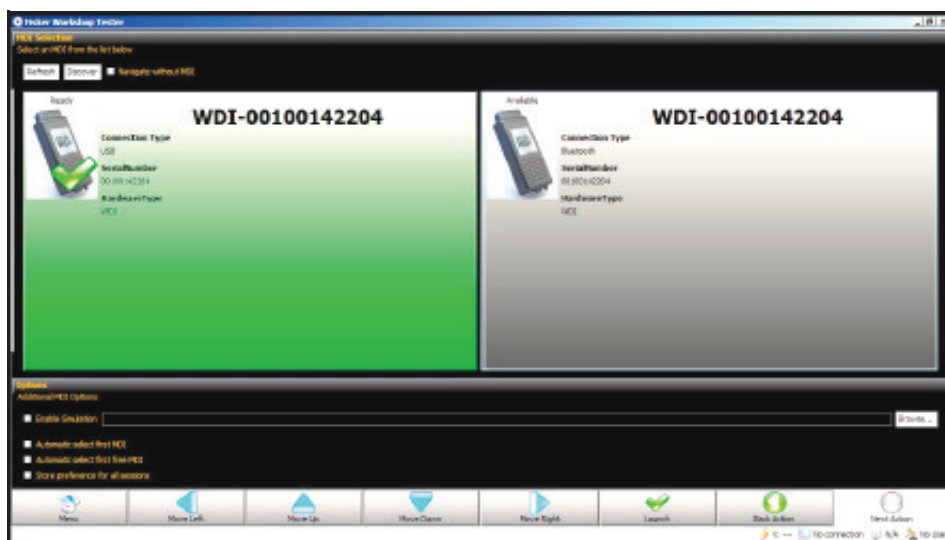
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4j. Select WDI (Connection Type - USB) by clicking on it once. When the gray box turns green, the WDI is ready to use.



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.



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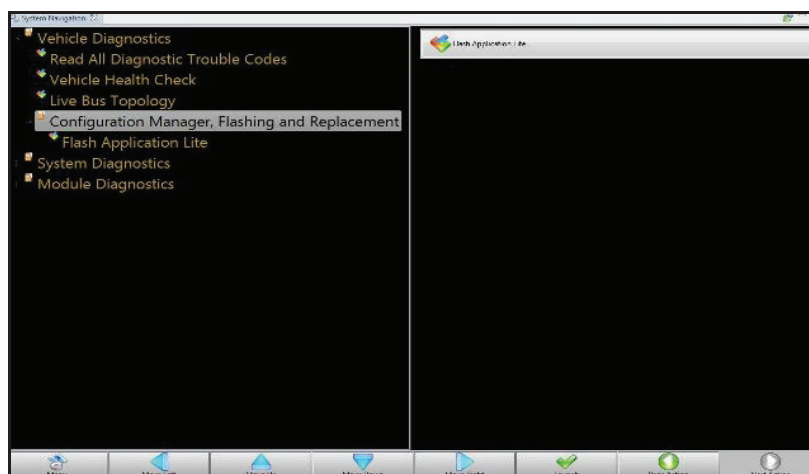
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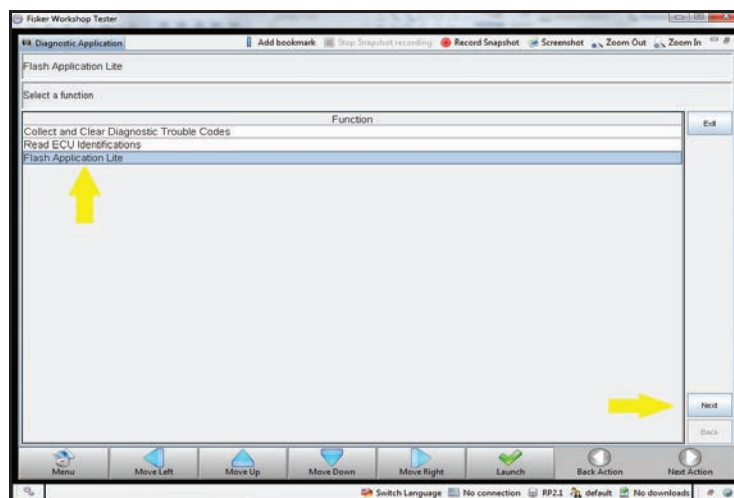
4k. With a WDI selected, click on “Next Action” to move to the VIN Entry Screen. Enter the vehicle information to continue.

4l. Select Flash Application Lite in the System Navigation menu under Vehicle Diagnostics > Configuration Manager, Flashing and Replacement.



4m. Click once to highlight “Flash Application Lite.” Click on “Next” in the bottom right hand corner of the screen to continue.

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.



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5. Driver Information System Flash Procedure (Baseline 614)



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.

THE LAPTOP MUST BE PLUGGED INTO AC SOURCE DURING THIS PROCESS.

5a. In the next screen, select the following from the drop down menus:

ECU	Driver Information System
SBL	DIS_SBL_0044_00_00.zip
APP	DIS_APP_0041_01_39.zip
CAL	<choose file>

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5b. Once the correct files to flash the DIS to Baseline 614 have been selected; Press the “Flash” button at the bottom right of the screen to begin.

- The scan tool will now begin to flash the DIS. In the message box, you will be alerted to the status of the flash.

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

NOTE: *The Driver Information System should take about 20 minutes to flash.*



WARNING!

DO NOT 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.

5c. When the flash reprogramming has completed, verify that the DIS ECU Software Version ID (Part Number) has been updated to 0041-01-39.

5d. Before attempting to flash any additional ECUs, power down the vehicle and let it go to sleep.

5e. Power up the vehicle and clear any diagnostic trouble codes (DTC) that may be set. If the DTCs return, diagnose accordingly.

- If the attempt to flash an ECU is unsuccessful, verify:
 - The correct files are selected for the Driver Information System.
 - 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.

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

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6. Hybrid Control Unit and HCU - EV Flash Procedure (Baseline 614)



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.

THE LAPTOP MUST BE PLUGGED INTO AC SOURCE DURING THIS PROCESS.

6a. Using the procedure outlined in Step 4 of this document; prepare the vehicle to be flashed.

6b. Connect to the vehicle using the Fisker Workshop Tester and WDI via the USB cable.

6c. After entering the Vehicle's information into the Fisker Workshop Tester and connecting to the vehicle, navigate to the Flash Application Lite screen.

– Select the following from the Flash Application Lite's drop down menus and click on the "Flash" button to begin flashing the Hybrid Control Unit.

ECU	Hybrid Control Unit
SBL	HCU_SBL_0114_00_00.zip
APP	HCU_APP_0111_04_0B.zip
CAL	<choose file>

ECU	Hybrid Control Unit – (Denmark & Norway Only)
SBL	HCU_SBL_0114_00_00.zip
APP	HCU_APP_0116_00_03.zip
CAL	<choose file>

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SERVICE BULLETIN

FISKER AUTOMOTIVE, INC.

NUMBER: 290120011.01

MODEL: Karma

DATE: February 7, 2012

MODEL YEAR: 2012

TITLE: Baseline 614 Release Overview

6d. Once the correct files to flash the HCU to Baseline 614 have been selected; Press the “Flash” button at the bottom right of the screen to begin.

– The scan tool will now begin to flash the HCU. In the message box, you will be alerted to the status of the flash.

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

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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.

NOTE: *The Hybrid Control Unit should take approximately 2-5 minutes to flash.*

6e. When the flash reprogramming has been completed, verify that the HCU ECU Software Version ID (Part Number) has been updated to 0111-04-0B or 0116-00-03 (Denmark and Norway Only).

6f. Before attempting to flash any additional ECUs, power down the vehicle and let it go to sleep.

6g. Power up the vehicle and clear any diagnostic trouble codes (DTC) that may be set. If the DTCs return, diagnose accordingly.

- 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.

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

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7. Power Inverter Module (Traction Motor 1)

NOTE: The following procedure requires the use of the INV-CAN adapter (Fisker Part Number FDT1004) if using a 3 channel WDI.

See Service Bulletin 299120007 - 3 Channel WDI Inverter CAN Adapter for more information.



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.

THE LAPTOP MUST BE PLUGGED INTO AC SOURCE DURING THIS PROCESS.

7a. Using the procedure outlined in Step 4 of this document, prepare the vehicle to be flashed.

7b. Connect to the vehicle using the Fisker Workshop Tester, WDI, and INV-CAN adapter (if using 3 channel WDI) via the USB cable.

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7c. After entering the Vehicle's information into the Fisker Workshop Tester and connecting to the vehicle, navigate to the Flash Application Lite screen.

- Select the following from the Flash Application Lite's drop down menus and click on the "Flash" button to begin flashing the PIM TM1.

ECU	PIM TM1 (Master)
SBL	TM1_SBL_0284_01_00.zip
APP	TM1_APP_0281_06_08.zip
CAL	<choose file>

7d. Once the correct files to flash PIM TM1 to Baseline 614 have been selected; Press the "Flash" button at the bottom right of the screen to begin.

- The scan tool will now begin to flash the PIM TM1. In the message box, you will be alerted to the status of the flash.

Example: "Prepare vehicle for flash..." and "Starting flash..."

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

NOTE: *The PIM TM1 should take approximately 1-2 minutes to flash.*

7e. When the flash reprogramming has completed, verify that the PIM TM1 ECU Software Version ID (Part Number) has been updated to 0281-06-08.

7f. Before attempting to flash any additional ECUs, power down the vehicle and let it go to sleep.

7g. Power up the vehicle and clear any diagnostic trouble codes (DTC) that may be set. If the DTCs return, diagnose accordingly.

- If the attempt to flash an ECU is unsuccessful, verify:
 - The correct files are selected for the PIM TM1.
 - 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.

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

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8. Power Inverter Module (Traction Motor 2)

NOTE: The following procedure requires the use of the INV-CAN adapter (Fisker Part Number FDT1004) if using a 3 channel WDI.

See Service Bulletin 299120007 - 3 Channel WDI Inverter CAN Adapter for more information.



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.

THE LAPTOP MUST BE PLUGGED INTO AC SOURCE DURING THIS PROCESS.

8a. Using the procedure outlined in Step 4 of this document, prepare the vehicle to be flashed.

8b. Connect to the vehicle using the Fisker Workshop Tester, WDI, and INV-CAN adapter (if using 3 channel WDI) via the USB cable.



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8c. After entering the Vehicle's information into the Fisker Workshop Tester and connecting to the vehicle, navigate to the Flash Application Lite screen.

- Select the following from the Flash Application Lite's drop down menus and click on the "Flash" button to begin flashing the PIM TM2.

ECU	PIM TM2 (Master)
SBL	TM2_SBL_0284_01_00.zip
APP	TM2_APP_0291_06_08.zip
CAL	<choose file>

8d. Once the correct files to flash PIM TM2 to Baseline 614 have been selected; Press the "Flash" button at the bottom right of the screen to begin.

- The scan tool will now begin to flash the PIM TM2. In the message box, you will be alerted to the status of the flash.

Example: "Prepare vehicle for flash..." and "Starting flash..."

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WARNING!

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

NOTE: *The PIM TM2 should take approximately 1-2 minutes to flash.*

8e. When the flash reprogramming has been completed, verify that the PIM TM2 ECU Software Version ID (Part Number) has been updated to 0291-06-08.

8f. Before attempting to flash any additional ECUs, power down the vehicle and let it go to sleep.

8g. Power up the vehicle and clear any diagnostic trouble codes (DTC) that may be set. If the DTCs return, diagnose accordingly.

- If the attempt to flash an ECU is unsuccessful, verify:
 - The correct files are selected for the PIM TM2.
 - 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.

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

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TITLE: Baseline 614 Release Overview

9. Vehicle Control Module Power Mirror Fold Configuration



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.

THE LAPTOP MUST BE PLUGGED INTO AC SOURCE DURING THIS PROCESS.

9a. In the Flash Application Lite screen, select the following from the drop down menus:

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

9b. Once the correct files to flash VCM Power Mirror Fold configuration file has been selected; Press the “Flash” button at the bottom right of the screen to begin.

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



WARNING!

DO NOT 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.

NOTE: *The VCM Power Mirror Fold Configuration file should take less than 30 seconds to flash.*

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9c. Once the flash is successful, power down the vehicle and let it go to sleep.

9d. Power up the vehicle and clear any diagnostic trouble codes (DTC) that may be set. If the DTCs return, diagnose accordingly.

- If the attempt to flash an ECU is unsuccessful, verify:
 - The correct files are selected for the Vehicle Control Module.
 - 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.

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

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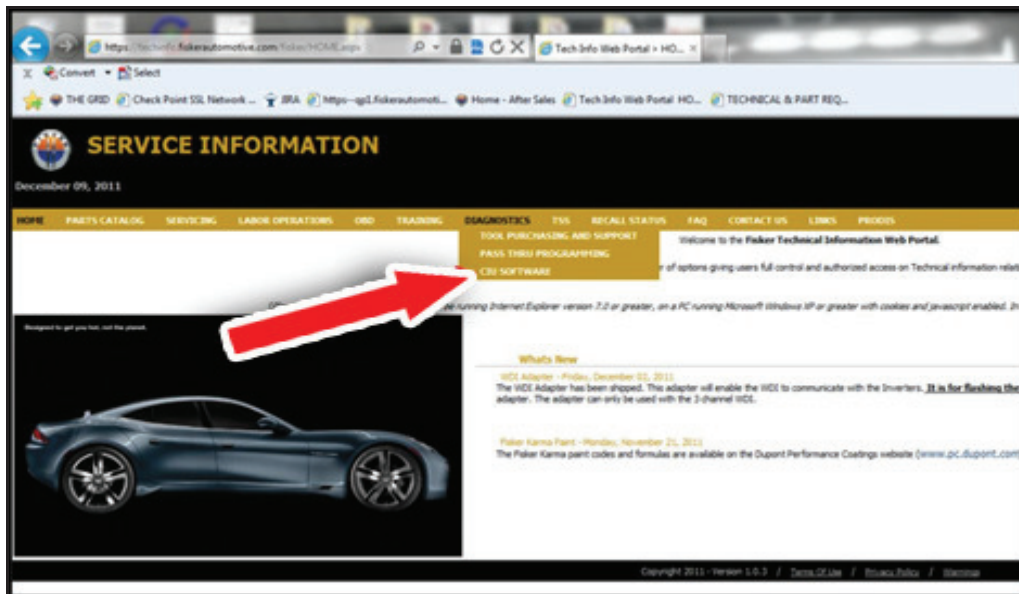
TITLE: Baseline 614 Release Overview

10. Accessing Central Infotainment Unit Software (Baseline 614)

The Central Infotainment Unit requires navigation files to be downloaded from the Fisker Service Information website. When downloading these files, it is recommended that the laptop is connected to the internet with an Ethernet cable as these are large files.

10a. Log into the Fisker Service Information website:

- <https://techinfo.fiskerautomotive.com>
- The additional CIU software is available in the Diagnostics -> CIU Software Menu



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10b. Click on the applicable link to download the correct regional CIU software files.

UNITED STATES, CANADA BL 614 CIU UPDATE (CIU_NA_5_2_12)

EUROPE BL 614 CIU UPDATE (CIU_EU_5_2_12)



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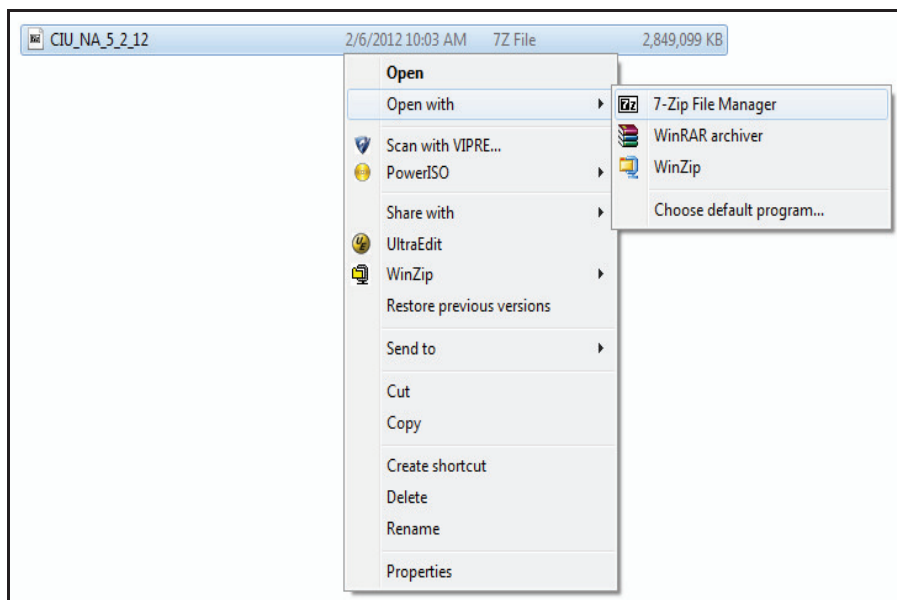
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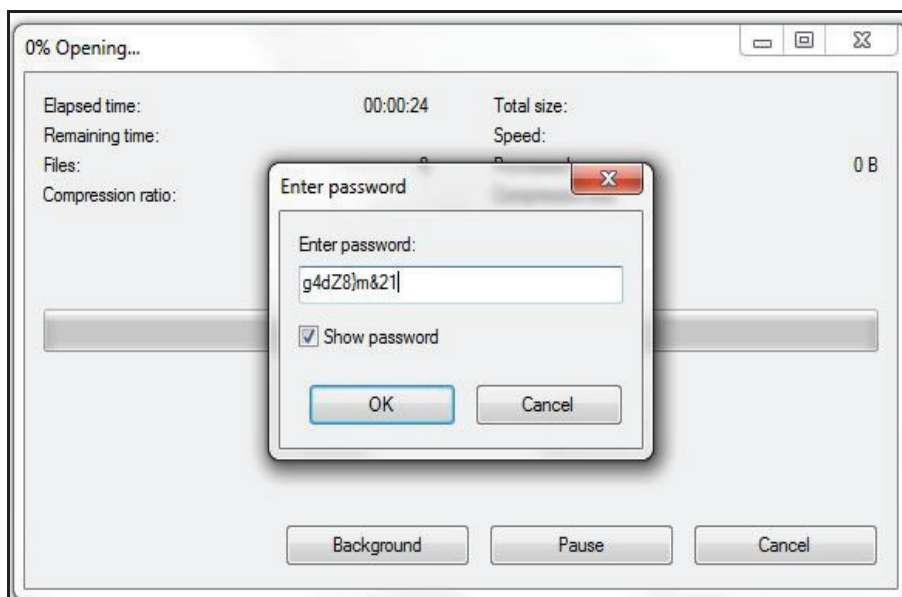
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10c. When the download has finished, right click the file and select "Open with 7 Zip File Manager".



10d. Enter the password when prompted: **g4dZ8}m&21**



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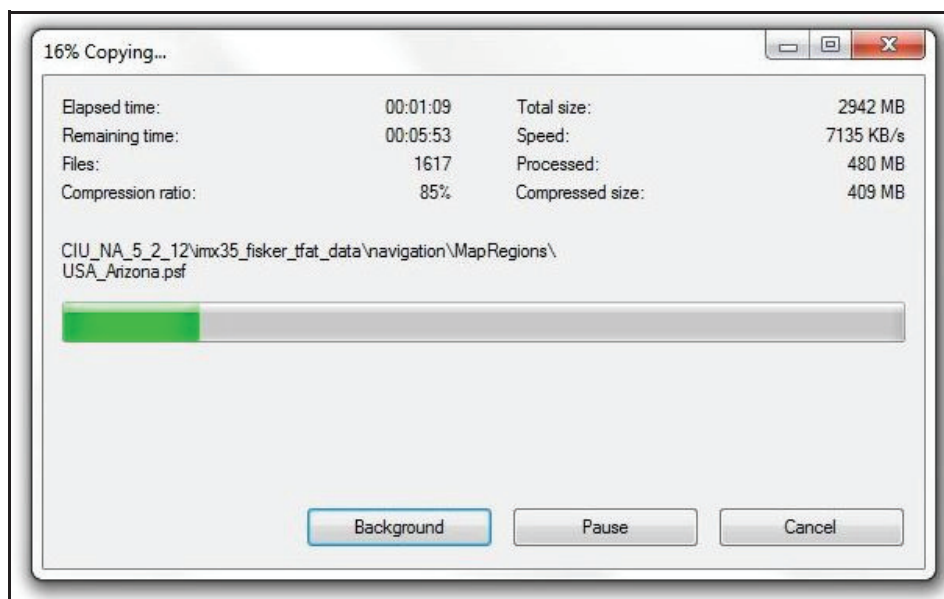
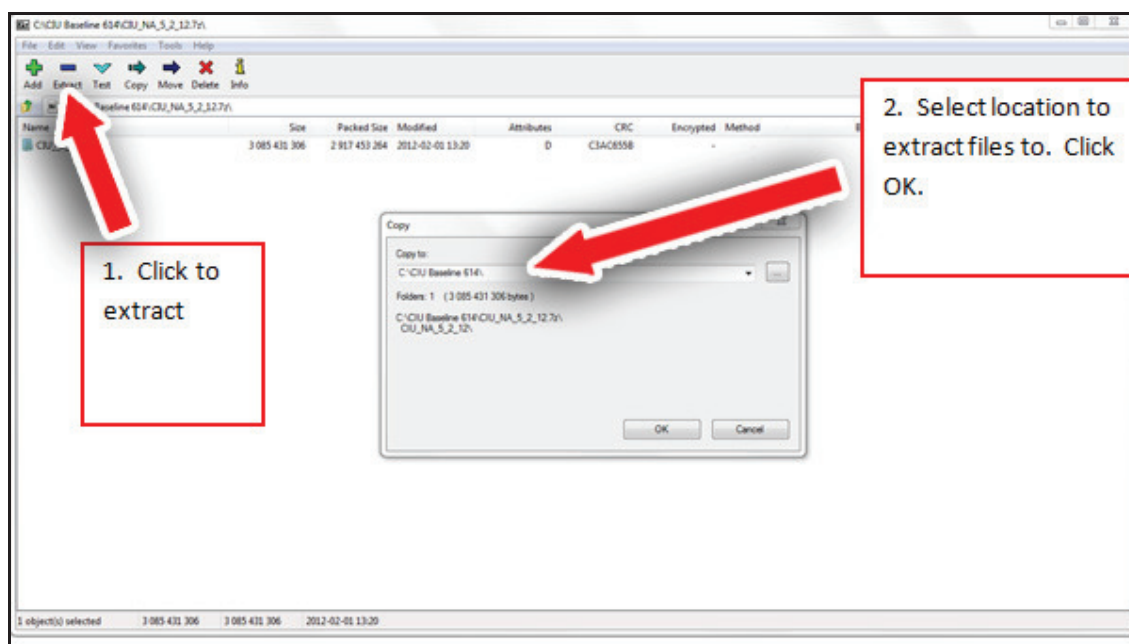
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10e. Click on the Extract button at the top of the menu and select a location to extract the contents of the file.



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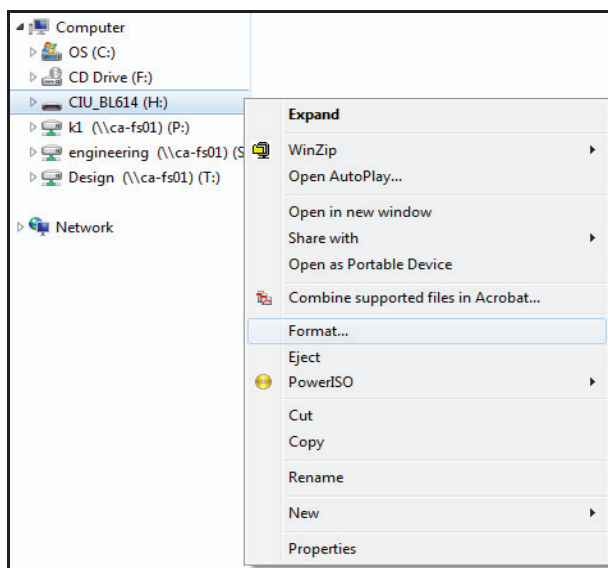
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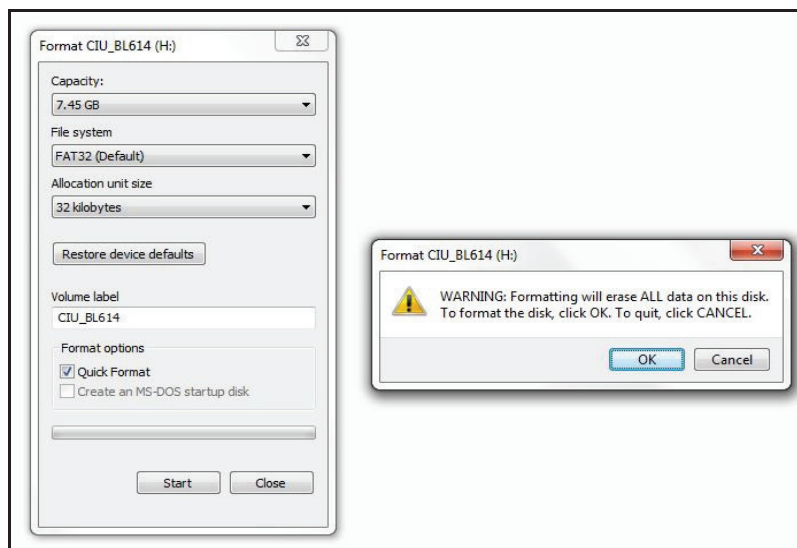
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10f. Insert a USB flash drive into the laptop and open up "My Computer" on the desktop. Right click the USB drive on the left and select "Format."



10g. Click Start and then Ok to format.



– Click Ok when the format is complete.

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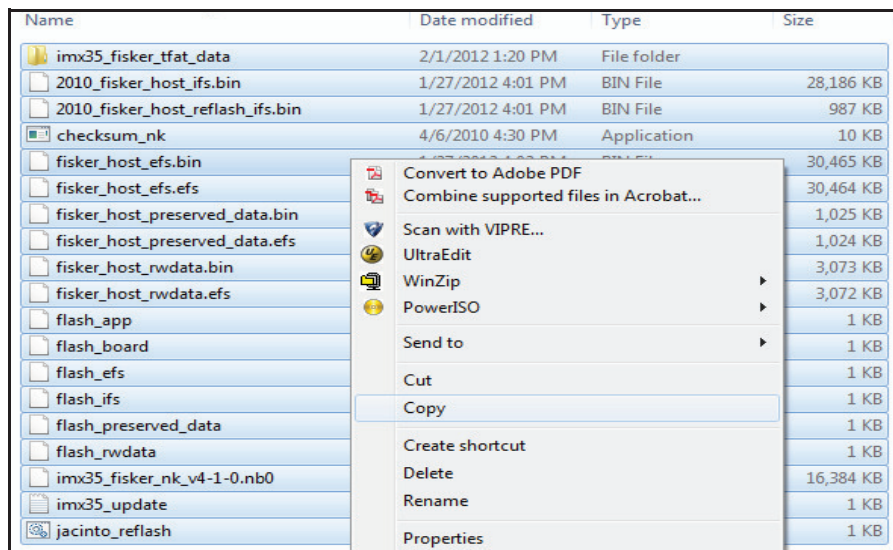
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MODEL YEAR: 2012

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10h. Locate and open the folder that was extracted in Step 11e.

10i. Highlight all of the files inside, right click and select Copy.



10j. Open the USB drive's folder and paste the navigation files into it.

10k. Verify the file size is correct for the navigation file downloaded.

– Highlight all of the files, right click and select Properties to view this information.

North America – 1,897 files, 2.87 GB

Europe – 1,855 files, 2.28 GB

10l. Once the correct files are on the USB drive, close all windows and eject the drive.

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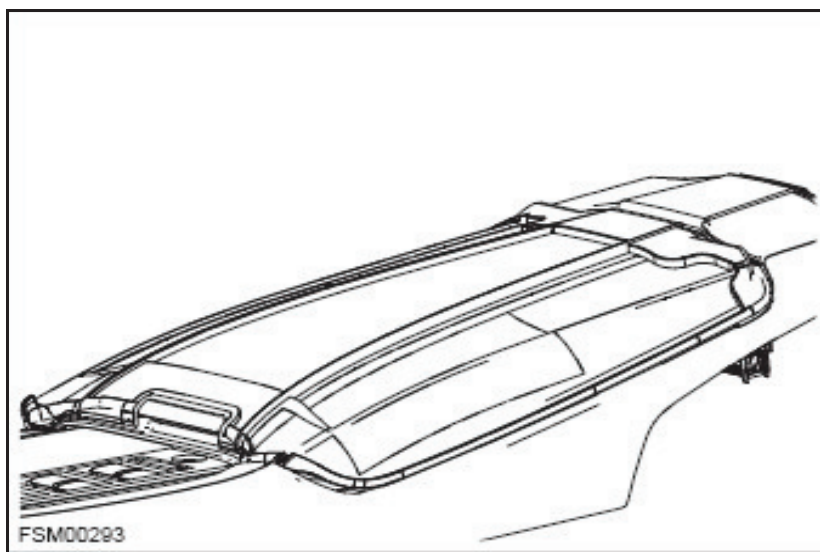
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11. CIU Flash Procedure

11a. Insert the USB flash drive into the center console USB port.

– If equipped with an LED, it should blink for a short period of time.



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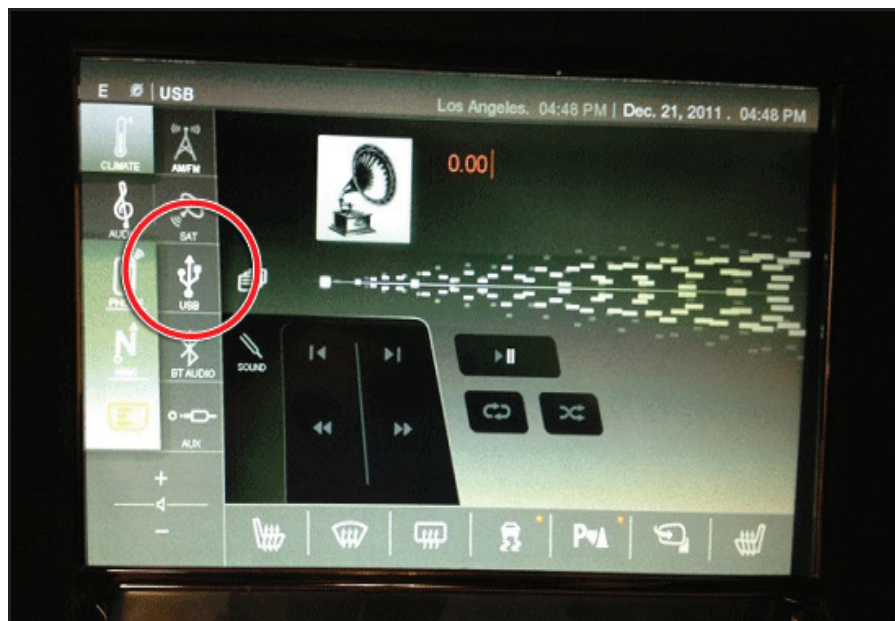
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11b. Confirm that the USB drive is being recognized by navigating to the Audio -> USB screen on the Touch Panel Interface (TPI). If you are able to view this screen, the CIU can read the USB drive.



11c. Using the procedure outlined in Step 4 of this document, prepare the vehicle to be flashed.

11d. Connect to the vehicle using the Fisker Workshop Tester and WDI.

11e. After entering the Vehicle's information into the Fisker Workshop Tester and connecting to the vehicle, navigate to the Flash Application Lite screen.

11f. Select the following files to flash the CIU to Baseline 614:

ECU	Central Infotainment Unit
Insert Flash Drive into center console USB port.	
SBL	CIU_SBL_002A_00_00.zip
APP	CIU_APP_0021_05_12.zip
CAL	CIU_CAL_002B_00_00.dsc.hex

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11g. Once the correct files to flash CIU to Baseline 614 have been selected; Press the “Flash” button at the bottom right of the screen to begin.

– The scan tool will now begin to flash the CIU. 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.

NOTE: *The CIU should take approximately 60 minutes to flash.*

11h. When the flash is complete power down the vehicle and let it go to sleep.

11i. Power up the vehicle and clear any diagnostic trouble codes (DTC) that may be set. If the DTCs return, diagnose accordingly.

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12. Verification of CIU Software Update

12a. Does the TPI power up on ignition cycle and illuminate to the "Agree" button as shown below?



12b. Does the CIU advance to the default HVAC screen after the "Agree" button has been pressed?



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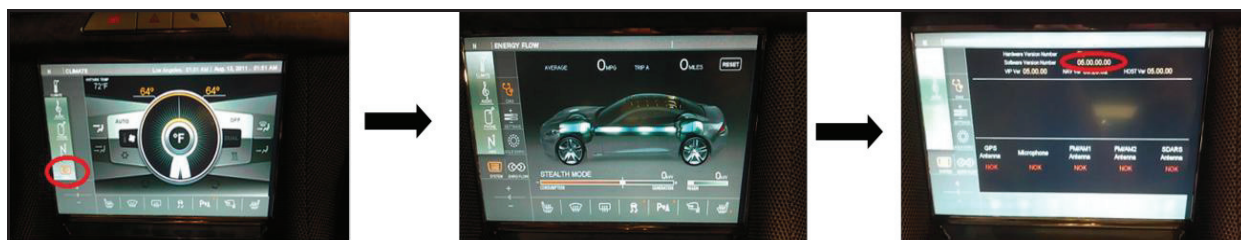
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12c. Verify the CIU software version by pressing and holding the "System" button for 8 seconds.

- During the 8 second duration, the TPI will switch to the System Menu. Continue to hold the "System" button for the 8 second duration. When released, the TPI will display the diagnostic screen.



12d. Verify the CIU software number is in accordance with the latest release for BL614.

- Software Version Number: 09.09.09.00
- VIP Version 05.20.00
- NAV Version 01.03.01
- HOST Version: 09.09.00



12e. CIU Flash is complete.

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SERVICE BULLETIN

FISKER AUTOMOTIVE, INC.

NUMBER: 290120011.01

MODEL: Karma

DATE: February 7, 2012

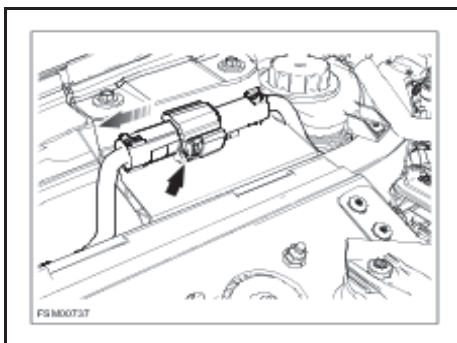
MODEL YEAR: 2012

TITLE: Baseline 614 Release Overview

13. Post ECU Flash Reprogramming Procedure

13a. When the flash reprogramming has finished, exit the Flash Application Lite menu.

13b. Power down the vehicle. Open the hood and disconnect the 12 Volt battery via connector C104.



12 Volt Battery Negative Connector C104

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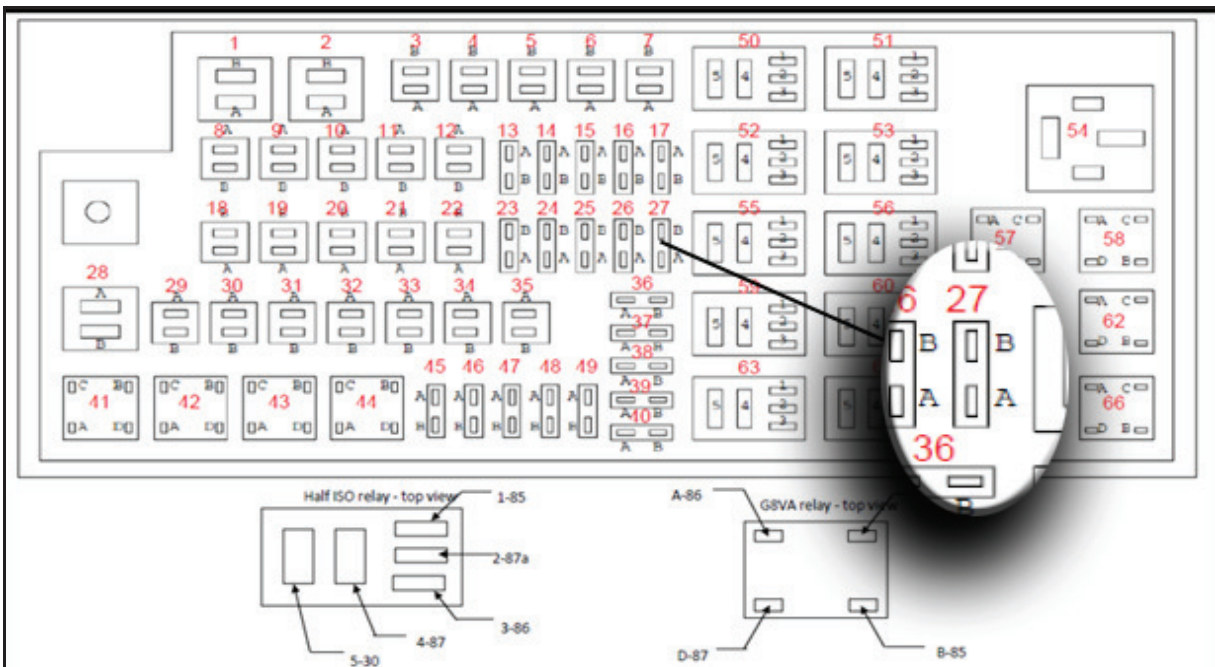
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13c. With the 12 Volt battery disconnected, remove Fuse 27 (25 amp) from the Power Distribution Center (PDC). This will disable the Solar Panel from powering the 12 Volt battery.

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

13d. Reconnect the 12 Volt battery via connector C104 and install Fuse 27 (25 amps).



13e. Turn the vehicle back on to ACC mode.

– Use the scan tool to clear any remaining DTC codes.

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

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PARTS REQUIRED:

PART NUMBER	DESCRIPTION
N/A	

SHOP SUPPLIES:

DESCRIPTION
N/A

SPECIAL TOOLS:

DESCRIPTION
FST9001 – Battery Charging Terminal Adaptor
Midtronics MDX Series Tester (or equivalent)
Portable USB Drive USB 2.0 16gb Capacity

LABOR CODES:

CODE	DESCRIPTION	TIME	DEFECT CODE
90-20-30-06	Bulletin 290120011 / Repair	1.5	90-20-30-98

CAUSAL PART:

PART NUMBER	DESCRIPTION
C131181101003	CIU/Radio - North America Base
C131181102003	CIU/Radio - European Base
C131181103003	CIU/Radio - North American Premium
C131181104003	CIU/Radio - European Premium

WARRANTY DISPOSITION:

Vehicles with a valid warranty

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Website: www.fiskerautomotive.com

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