



SAFETY RECALL

FISKER AUTOMOTIVE, INC.

NUMBER: 51611001.03

MODEL: Karma

DATE: January 4, 2012

MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

PRIORITY:

Vehicles in Operation

APPLICABILITY:

2012 Karma

MARKET REGION:

U.S., Europe

PURPOSE:

Within the high voltage battery, cooling hose clamps may have been positioned incorrectly during the battery assembly process. When positioned incorrectly, the battery compartment cover could interfere with the hose clamps and cause a coolant leak inside the high voltage battery. If coolant enters the battery compartment, an electrical short could occur, possibly resulting in a fire. This recall requires the repair or replacement of the High Voltage Battery pack. Repairs will be performed by the battery manufacturer.

PROCESS OVERVIEW:

Removal and Replacement of High Voltage Battery

1. Isolation Procedure for 12 Volt Battery
2. High Voltage Isolation Procedure - MSD
3. High Voltage Battery Removal Procedure
4. High Voltage Battery Pack Lifting Procedure
5. Install High Voltage Battery
6. Low Temp Cooling System Filling and Pressure Testing
7. BECM Connector to be Examined for Terminal Pin Push-Out
 - BECM Pin Depth Examples
8. PTC Connectors to be Examined for Terminal Pin Push-Out
 - PTC Pin Depth Examples
9. Programming the Battery (if necessary)
10. Attach Recall Campaign Label

Shipping The Battery

SPECIAL TOOLS REQUIRED:

1. FST1001 – HV Battery Pack Support Cradle
2. FST1022 – Battery Lifting Kit
3. FST9001 – Battery Charging Terminal Adaptor
4. Midtronics MDX Series Tester (or equivalent)

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YH4K10BA6CA000004	YH4K10BA8CA000005	YH4K10BA1CA000007
YH4K10BA5CA000009	YH4K10BA5CA000012	YH4K10BA7CA000013
YH4K10BA9CA000014	YH4K10BA4CA000017	YH4K10BA6CA000021
YH4K10BAXCA000023	YH4K10BA3CA000025	YH4K10BA5CA000026
YH4K10BA7CA000027	YH4K10BA9CA000031	YH4K10BA0CA000032
YH4K10BA2CA000033	YH4K10BA4CA000034	YH4K10BA8CA000036
YH4K10BAXCA000040	YH4K10BA1CA000041	YH4K10BA3CA000042
YH4K10BA5CA000043	YH4K10BA7CA000044	YH4K10BA0CA000046
YH4K10BA4CA000048	YH4K10BA6CA000049	YH4K10BA2CA000050
YH4K10BA6CA000052	YH4K10BAXCA000054	YH4K10BA1CA000055
YH4K10BA3CA000056	YH4K10BA5CA000057	YH4K10BA7CA000058
YH4K10BA9CA000059	YH4K10BA9CA000062	YH4K10BA0CA000063
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YH4K10BA3CA000073	YH4K10BA2CA000078	YH4K10BA0CA000080
YH4K10BA2CA000081	YH4K10BA4CA000082	YH4K10BA8CA000084
YH4K10BA1CA000086	YH4K10BA3CA000087	YH4K10BA5CA000088
YH4K10BA7CA000089	YH4K10BA3CA000090	YH4K10BA9CA000093
YH4K10BA0CA000094	YH4K10BA2CA000095	YH4K10BA6CA000097
YH4K10BA8CA000098	YH4K16AA5CA000161	YH4K16AA4CA000183
YH4K16AA8CA000185	YH4K16AAXCA000186	YH4K16AA1CA000187
YH4K16AA3CA000188	YH4K16AA5CA000189	YH4K16AA1CA000190
YH4K16AA5CA000192	YH4K16AA9CA000194	YH4K16AA0CA000195
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YH4K16AAXCA000205	YH4K16AA1CA000206	YH4K16AA3CA000207
YH4K16AA5CA000208	YH4K16AA7CA000209	YH4K16AA3CA000210
YH4K16AA5CA000211	YH4K16AA7CA000212	YH4K16AA9CA000213
YH4K16AA0CA000214	YH4K16AA4CA000216	YH4K16AA6CA000217
YH4K16AA8CA000218	YH4K16AAXCA000219	YH4K16AA6CA000220
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YH4K16AA2CA000232	YH4K14AA5CA000259	YH4K14AA9CA000278
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YH4K12AA4CA000421	YH4K14AA1CA000422	YH4K12AA8CA000423

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YH4K12AA2CA000434	YH4K14AA3CA000437	YH4K12AA8CA000440
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YH4K14AA9CA000460	YH4K14AA2CA000462	YH4K14AA4CA000463
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WARNING: HIGH VOLTAGE (HV) battery contains lethal voltage.

WARNING: Do not remove the Manual Service Disconnect (MSD) if the vehicle is switched on or running.

WARNING: Intentional disconnection of the Manual Service Disconnect (MSD) under load could potentially damage the battery pack and cause injury to the person performing the act.

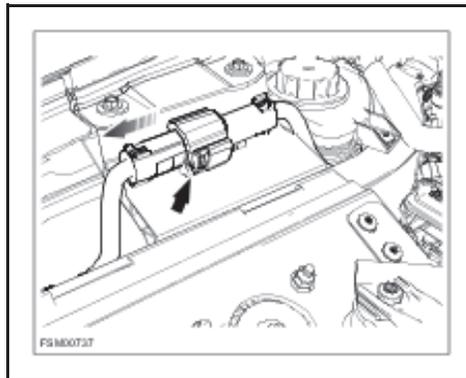
Battery Removal Procedure

Isolation Procedure for 12 Volt Battery

1a. Open hood.

NOTE: Be sure the Start/Stop Button (SSB) is in the OFF position before going to next step.

1b. Locate 12 volt battery boost connection and release clip.



1c. Disconnect 12 volt negative battery harness.

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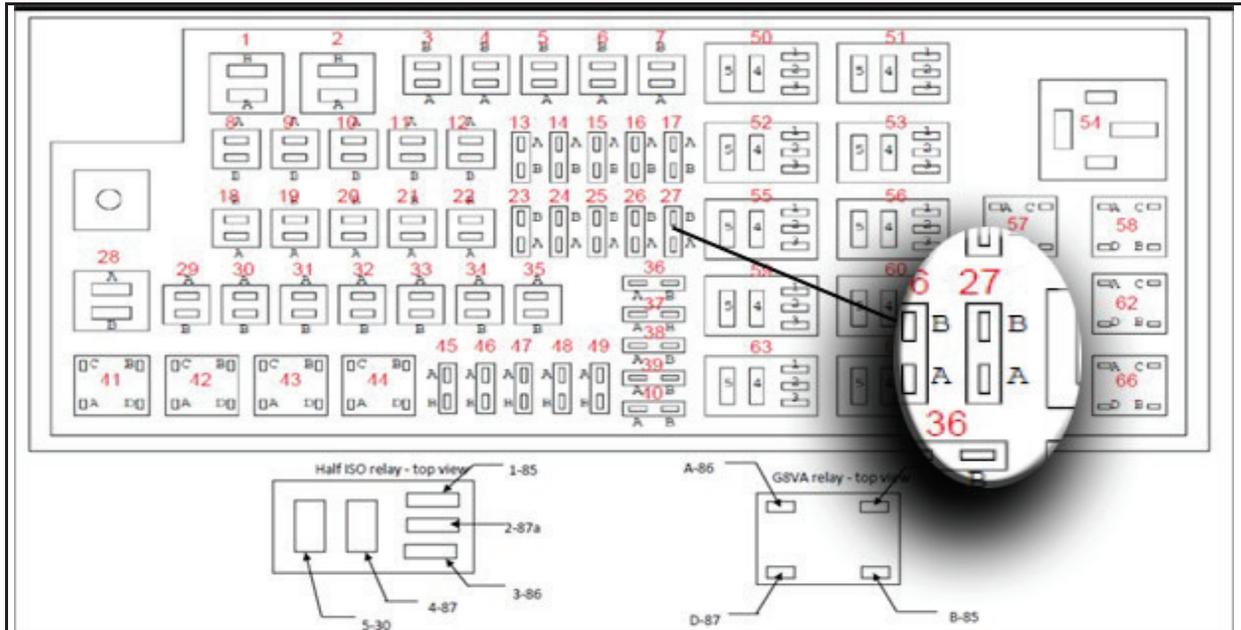
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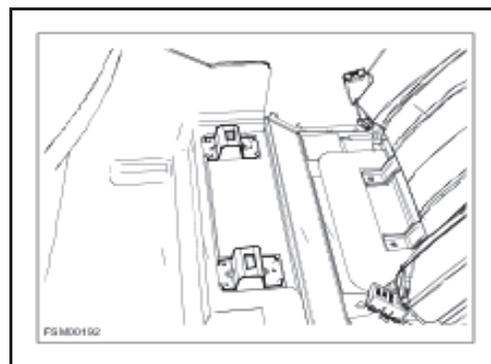
1d. Remove fuse #27 (25 amp) solar panel fuse located in the Power Distribution Center (PDC).



High Voltage Isolation Procedure - MSD

2a. Remove seat cushion - Rear - LH.

2b. Release clips (x2) from seat cushion leading edge by pulling sharply upwards.



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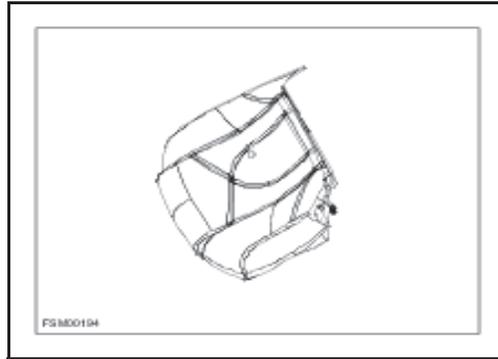
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2c. Disconnect seat harness connector.

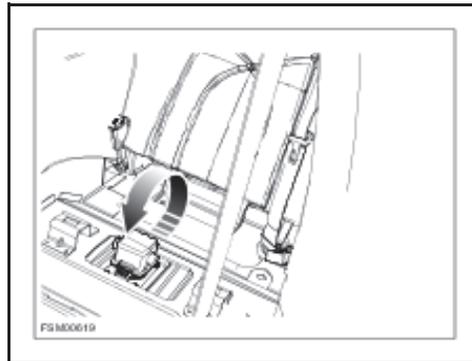


2d. Remove seat cushion.

2e. Release latch pin from Manual Service Disconnect (MSD) latch.

2f. Lift cover for access to MSD plug.

2g. Release clip and remove MSD plug.



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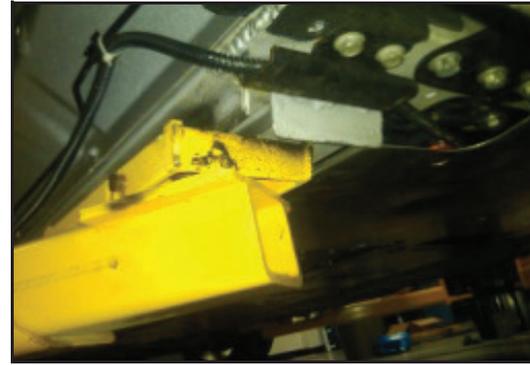


CAUTION: Wait 5 minutes for high voltage capacitors to discharge after removal of the Manual Service Disconnect (MSD). Although the battery has been disconnected, residual current may still be present.

NOTE: Verify that the voltage at the Accessory Power Module (APM) has dropped to zero. If 13+ volts are present at the APM, do not continue. Contact Fisker Technical Support.

High Voltage Battery Removal Procedure

3a. Lift car (see images below for safe lift points). Make sure rear arms won't block removal of rear battery protection shield.



3b. Remove both of the battery shields from under the vehicle and note position of bolts. The shorter bolts are on the outside perimeter and very center of shields and longer bolts are in between. Note the position of the longer bolts on the body using a marker as this will assist in reinstallation of battery and knowing which holes to leave empty during battery reinstallation.

- Install torque spec: Battery case bolts = 19 lbs.-ft. (27 nm)
- Install torque spec: Battery cover bolts = 11 lbs.-ft. (15 nm)



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3c. Remove both rear HV pack connectors.

- Install torque spec: hold down bolts = 7 lbs.-ft. (10 nm)



3d. Remove wiring loom guide bolts (x3).



3e. Remove large circular Battery Energy Control Module (BECM) connector on passenger side of battery by twisting (there may also be an additional ground strap here that needs to be undone).



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NOTE: *The Auxiliary HV connectors are physically the same, but need to be plugged into specific positions. Be sure to label each connector to keep track of their order, so they are not plugged into wrong connector during reassembly.*

3f. Remove the three Auxiliary HV lines from battery. They have a two stage lock. Press the outside orange tab and pull connector back slightly. Then Push the red tab in the middle and remove the connector completely.



3g. Remove the 4th Auxiliary HV connector for the On Board Charger Module (OBCM).



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3h. Open up all three HV wiring loom troughs and lay the harness over the arms of the vehicle lift.



3i. Remove the two bolts from the front HV wiring loom guide and lay the covers to the side without removing from harness.



3j. To drain coolant, remove both coolant lines from the front passenger side of the HV Battery Pack. Be sure to collect the coolant for recycling and/or re-use using the proper equipment.



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3k. Place the Fisker Service Tool **FST1001 – HV Battery Pack Support Fixture** on the lifting table (OTC 1595 or equivalent) and secure by bolting or strapping the fixture to the lift table. This fixture will give you enough space to remove the bolts along both sides of the HV Battery Pack. After removal of all bolts, carefully lower the HV Battery and transport to a suitable area within the shop which gives enough room to remove the HV battery from the lift table and cradle. Tape off the opening where the MSD was removed for safety.



FST 1001 - HV Battery Support Cradle (red arrow) on OTC 1595 lifting table.

*NOTE: The HV Battery can be lifted from the cradle using Fisker Service Tool **FST1022 Battery Lifting Kit**. Using suitable equipment such as a fork lift, mobile crane or "cherry picker" in combination with the lifting kit, remove the HV Battery Pack from the cradle and place in a secure area until ready for re-installation or return shipping (details on page 31).*

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High Voltage Battery Pack Lifting Procedure

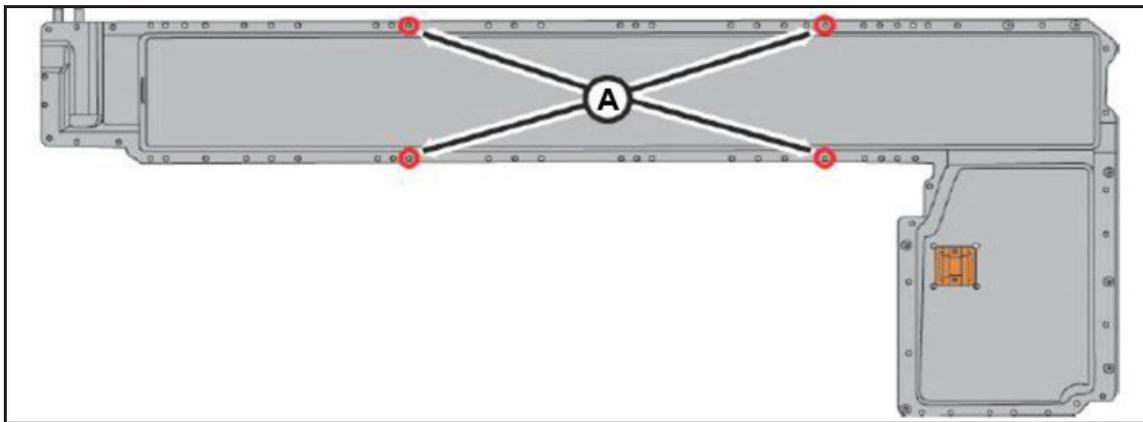
Lifting the HV Battery Pack should only occur at the four recommended lift points, with the Battery Cover in place and fully secured with all perimeter fasteners properly torqued. The following steps are shown using Fisker Service Tool *FST1022 Battery Lifting Kit*.

NOTE: When lifting the HV Battery Pack, the weight must be evenly distributed throughout the entire length of the battery pack.

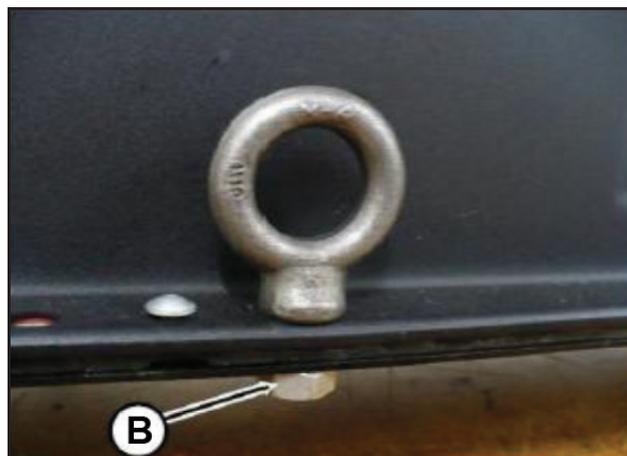


CAUTION! Improper lifting will damage the HV Battery Pack. Refer to Battery Pack Lifting Caution in vehicle Safety Information.

4a. Install the eye-bolts in the four locations (A) on the HV Battery Pack.



4b. Tighten the four eye-bolt nuts (B).



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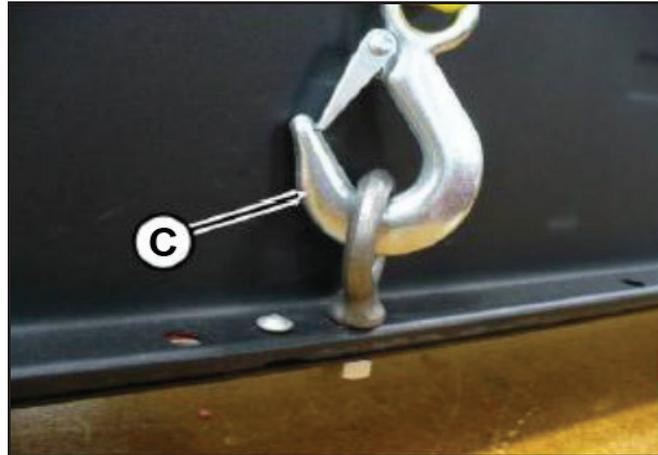
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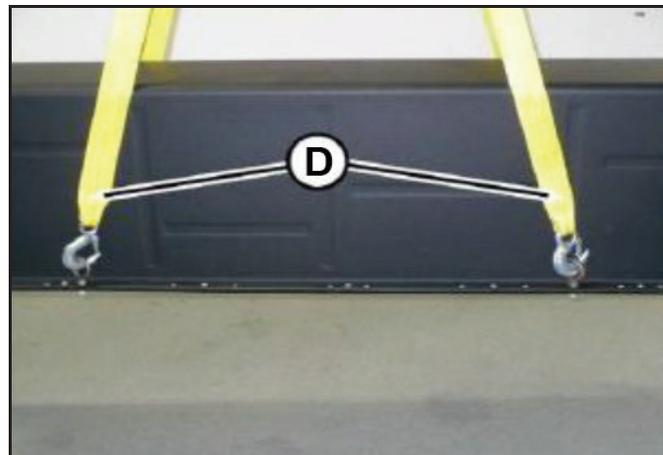
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4c. Place the lift hooks (C) of the lift sling into each eye-bolt.



4d. Ensure the lift straps (D) are properly routed and free of knots. Using appropriate lifting device, lift the HV Battery Pack and locate it to desired location.



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SAFETY RECALL

FISKER AUTOMOTIVE, INC.

NUMBER: 51611001.03

MODEL: Karma

DATE: January 4, 2012

MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

Battery Installation Procedure

NOTE: Prior to refitting the replacement battery, please check the following (covered on pages 18-22):

- BECM (Battery Energy Control Module) Connector
- PTC (Positive Thermal Coefficient) Connectors

NOTE: Before installing the new battery, record the serial number of the replacement HV Battery (being installed) onto the Repair Order and on the warranty claim form (in the comments section).



Install High Voltage Battery

5a. Installation procedure will be reverse of the removal procedure.

NOTE: After the high voltage battery has been installed back into the vehicle, the low temp cooling for the high voltage battery will need to be filled and pressure checked.

Low Temp Cooling System Filling and Pressure Testing

6a. Using a suitable vacuum filling kit such as a Snap-On RADKITPLUSA, pull a vacuum on the low-temp cooling circuit by attaching the kit to the low-temp circuit reservoir located in front of the engine (see red arrow).



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TITLE: High Voltage Battery Recall

6b. Vacuum coolant system down to approximately -25 inches and hold the vacuum for 4 minutes.



6c. Close off the ball valves, disconnect vacuum adapter.

6d. Connect the vacuum hose and insert hose into the 50/50 coolant supply.

6e. Open ball valves to allow coolant to be pulled into the system.

6f. When coolant stops flowing into the reservoir the system should be full.

6g. Remove vacuum tool assembly.

Note: The coolant reservoir is the highest point of this system and bleeding should not be required.

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6h. Using pressure tester (Snap-On part# TAB10036 and SVTS262-1 or Kent More adapter J-42401-3), pump system to 30 PSI.

6i. Make sure system holds pressure for 20 min.



- Energy Storage System (ESS) coolant capacity is 4.2 quarts (3.9 liters).
- Use Havoline Extended life anti-freeze/coolant, Dex-cool.

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MODEL: Karma

DATE: January 4, 2012

MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

Checking High Voltage Battery Electrical Connectors

BECM Connector to be Examined for Terminal Pin Push-Out

*NOTE: The Battery Energy Control Module (BECM) connector female terminal pins could potentially be susceptible to **terminal pin push-out** causing several electrical concerns and Malfunction Indicator Lamp (MIL) illumination. With the connector removed from the BECM look closely at the female pins for any that appear to be recessed. Pin should be no lower than 3 mm from the surface of the connector.*

7a. To unlock/remove BECM female connector, rotate collar counter-clockwise and pull connector by grasping collar.



WARNING! Do not pull connector loose by grasping wires.

7b. Once connector has been removed, inspect terminal pins for terminal pin push-out.



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MODEL: Karma

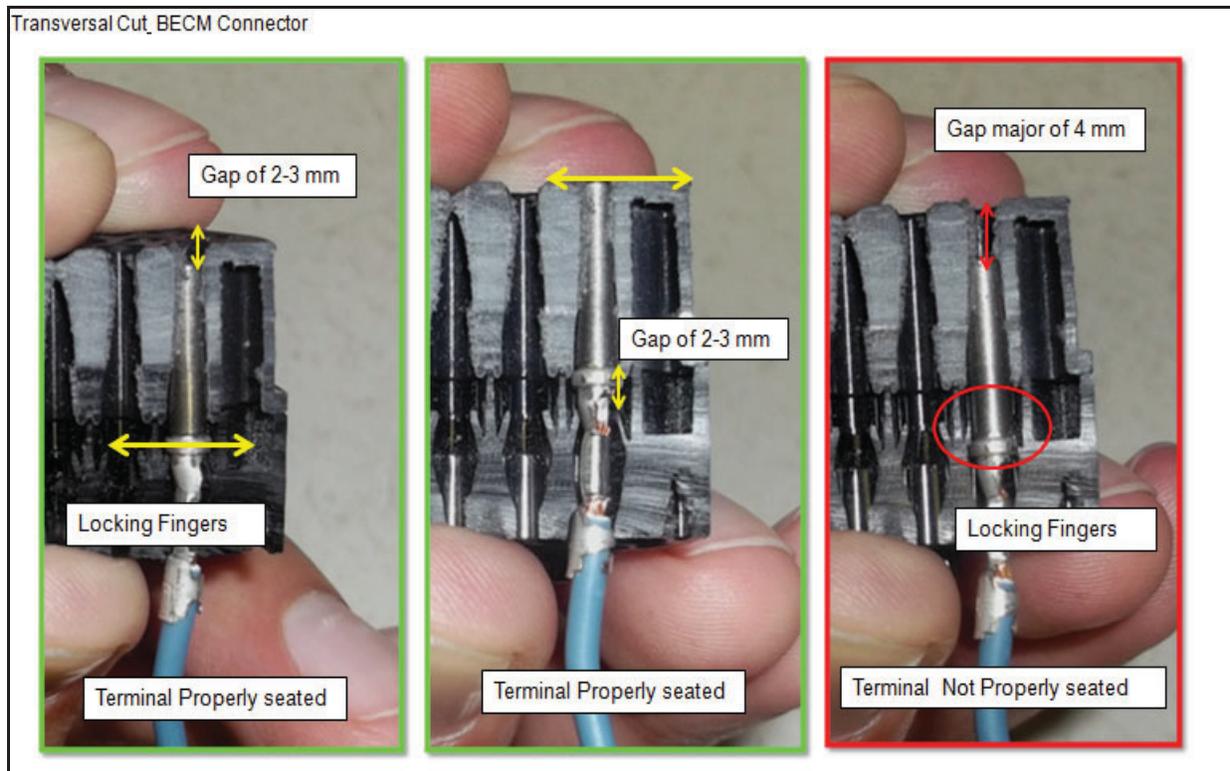
DATE: January 4, 2012

MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

BECM Pin Depth Examples

7c. Conduct a "Push/Pull Test on the circuit pins" from the back of the connector in an attempt to re-seat pins on circuits that appear to be not completely seated.



NOTE: If the terminal/pin cannot be re-seated, the connector is damaged and will need to be replaced.

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MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

Examples of Terminal Pin Push-Out

- Close-up of pin improperly recessed pin (more than 3 mm) due to terminal pin push-out through back of connector (left).

- Connector pins within 2-3 mm of plug face are seated correctly. See photo (right) for different pin depths.



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DATE: January 4, 2012

MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

PTC Connectors to be Examined for Terminal Pin Push-Out

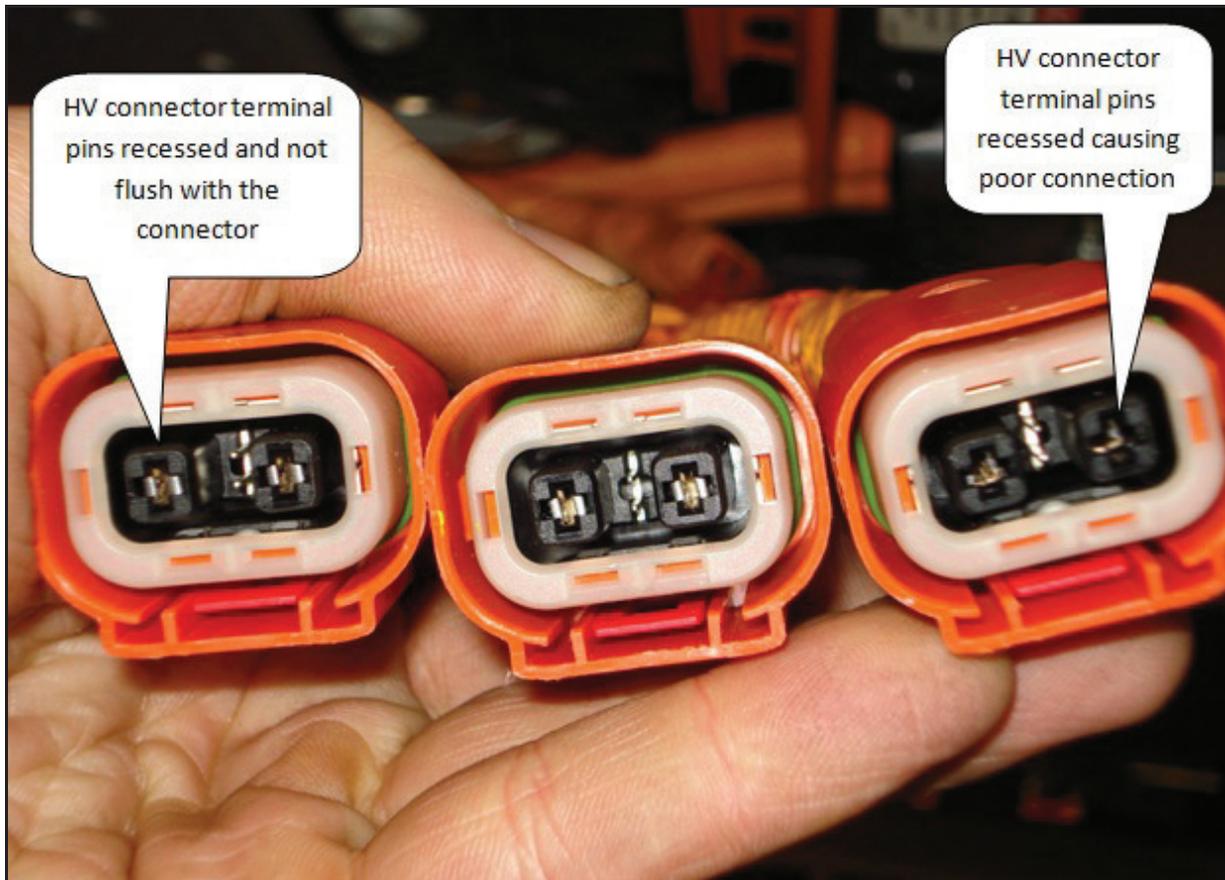
8a. Remove PTC connectors from HV Battery Pack.

8b. Once connectors have been removed, inspect terminal pins for terminal pin push-out.

8c. Conduct a "Push/Pull Test on the circuit pins" from the back of the connector in an attempt to re-seat pins on circuits that appear to be not completely seated.

NOTE: The high voltage connector female terminal pins could potentially be susceptible to terminal pin push-out causing several electrical concerns and MIL illumination. All high voltage pins should be flush with the face of the connector. While the battery is removed for replacement closely inspect all high voltage cable female pins for possible terminal pin push-out.

Examples of Terminal Pin Push-Out



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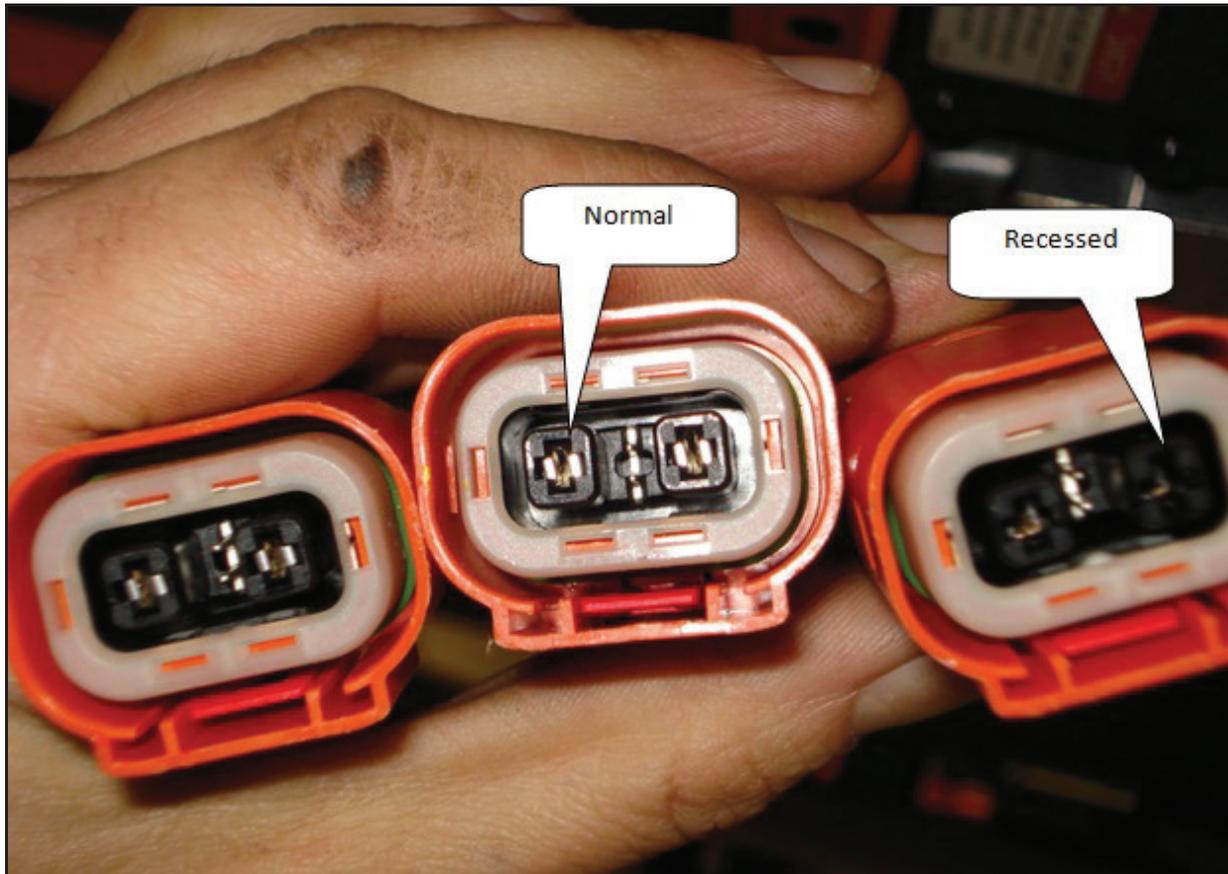
NUMBER: 51611001.03

MODEL: Karma

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MODEL YEAR: 2012

TITLE: High Voltage Battery Recall



8d. Re-assemble all connectors, check for coolant leaks, and check coolant fill level in reservoir. Charge vehicle using the supplied travel cord or the wall charger for at least 6 hours. Re-install any removed fuses. Check for codes, record any codes present and then clear all codes. Road test vehicle and enter a case on the Fisker Technical Support System (TSS) system stating repair has been completed.

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TITLE: High Voltage Battery Recall

Programming Battery (If Necessary)

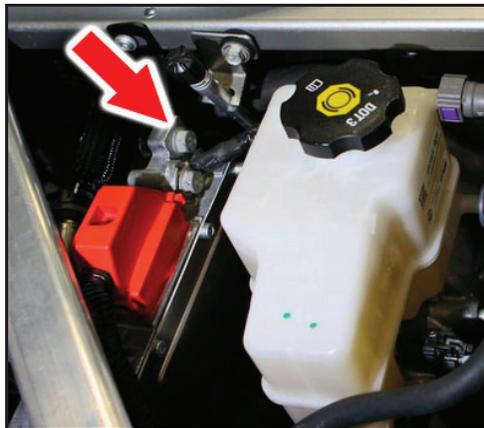
Preparing the Vehicle for ECU Flash Reprogramming

9a. Disconnect the vehicle from High Voltage Wall Charger.

9b. If the Battery is not at least 12.2 volts, connect the positive lead of the battery charger to the B+ positive post at the 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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TITLE: High Voltage Battery Recall

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

9c. Before ECU flash reprogramming can be started; the vehicle must be in ACC (Accessory mode).

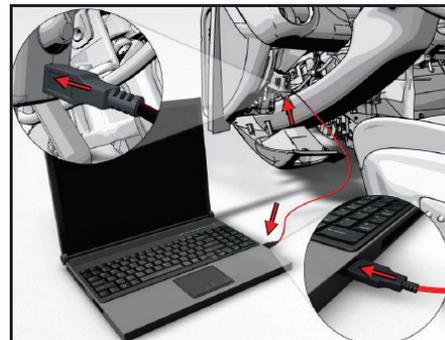
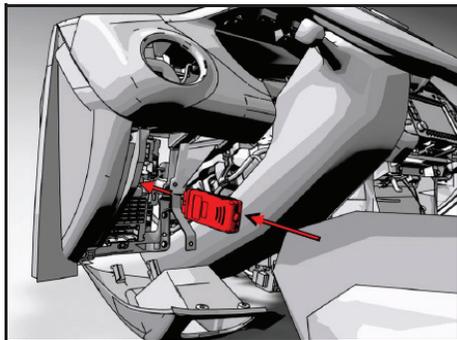
- With the vehicle completely off, press the SSB (Start/Stop Button) once. The SSB backlighting will turn amber and the Drivers Information System (DIS) will display "ACC."

9d. 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 an ECU is being reprogrammed; the reprogramming may be unsuccessful and can potentially damage the ECU.

Connect Laptop for ECU Reprogramming

9e. 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: It is recommended to use the USB cable when flash reprogramming an ECU. It is faster and more reliable than using the Bluetooth connection.

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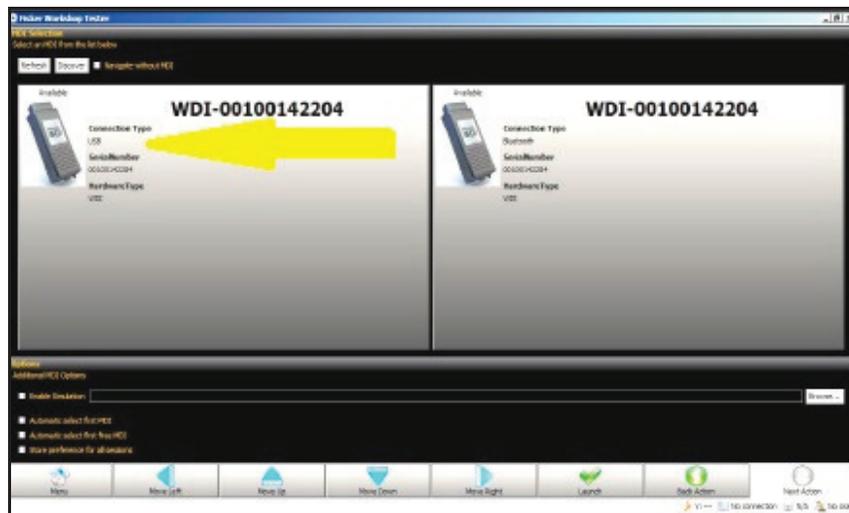
DATE: January 4, 2012

MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

9f. Select “user, default” to move on to the MDI Configuration screen.

9g. Select WDI (Connection Type - USB) by clicking on it once. When the gray box turns green, the WDI is ready to use.



9h. With a WDI selected, click on “Next Action” to move to the VIN Entry Screen. Enter the vehicle information to continue.

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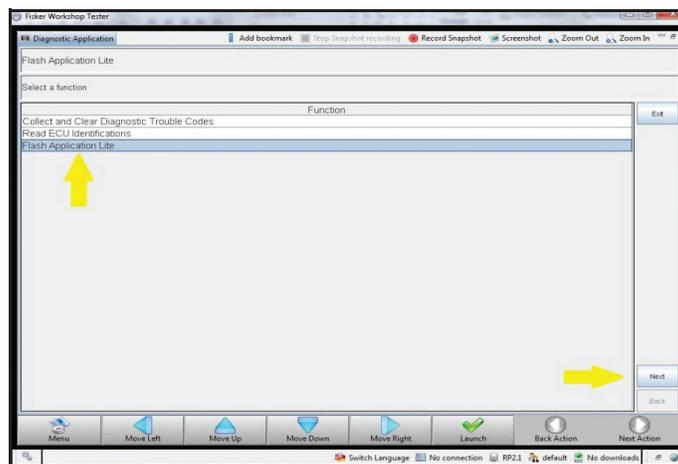
MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

Flash Reprogramming with Flash Application Lite

9i. After opening FiskerWT and entering the vehicle information; select “Flash Application Lite” in the System Navigation menu.

9j. Click once to highlight “Flash Application Lite.” Click on “Next” in the bottom right hand corner of the screen to continue.



9k. In the next screen, select BECM (because the ECU has to be flashed). Consult the FlashApp Cheat Sheet to determine the flash files required to update the ECU to the desired baseline level.

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

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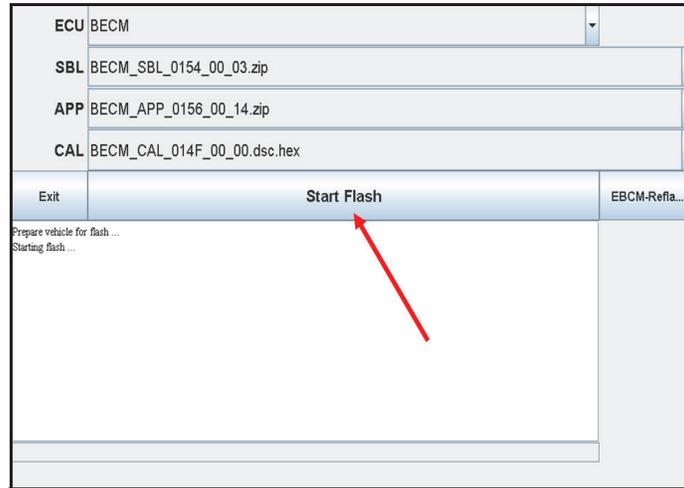
MODEL: Karma

DATE: January 4, 2012

MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

9l. After verifying that the correct files are selected, begin the update by clicking on the “Start Flash” button.



9m. 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.



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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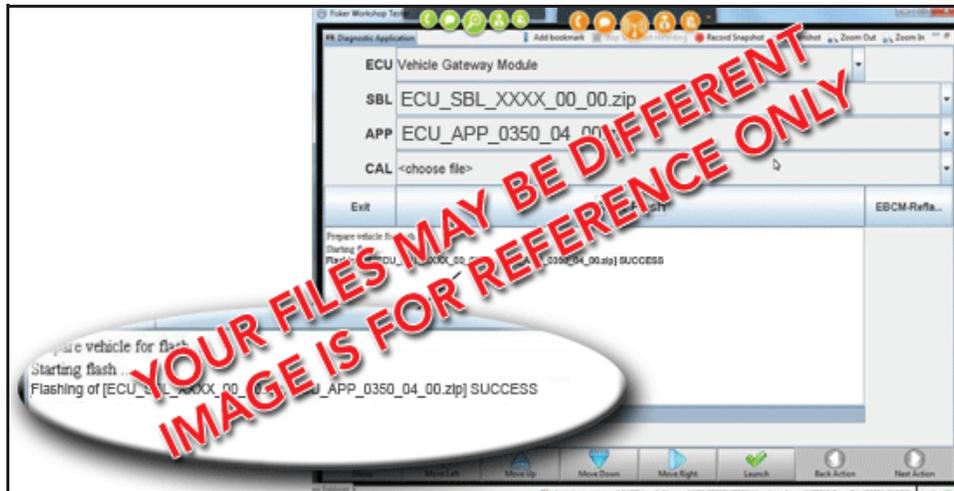
DATE: January 4, 2012

MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

9n. 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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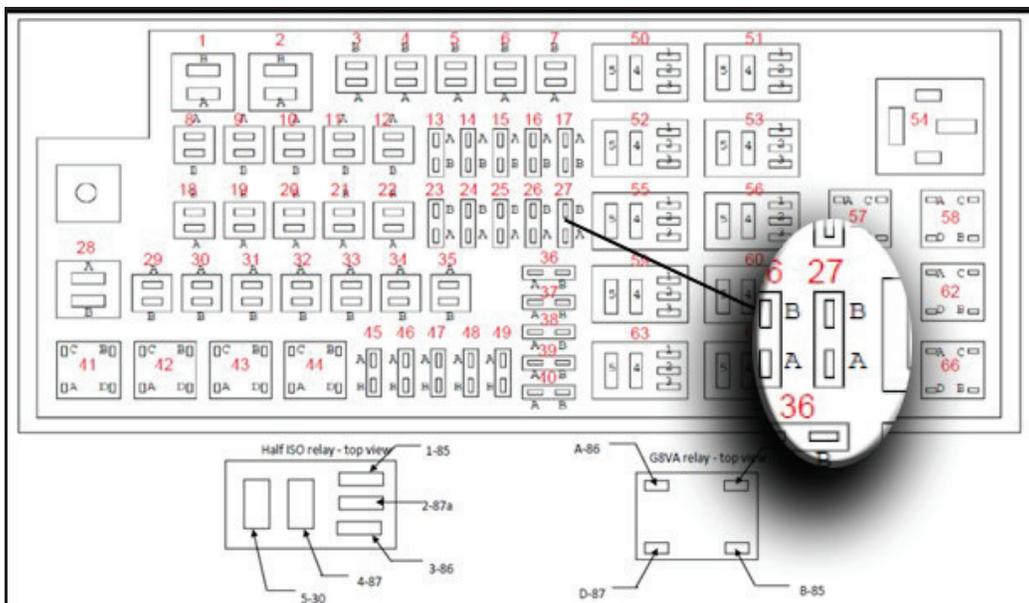
TITLE: High Voltage Battery Recall

Power Down and Power Up Vehicle

9o. Once the flash is successful; power down the vehicle, open the hood and disconnect the 12 volt battery via connector C104.

9p. With the battery disconnected, remove Fuse 27 (25 amp) from the Power Distribution Center.

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



9q. Reconnect the 12 volt battery via connector C104 and install Fuse 27 (25 amps).

9r. Turn the vehicle back on to System Ready mode and clear all Diagnostic Trouble Codes (DTC) using the scantool.

- 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 DTC codes and diagnose accordingly.

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TITLE: High Voltage Battery Recall

Attach Recall Campaign Label

10a. Once recall is complete, please fill in Campaign Label C1800TAG002 with campaign no. "51611001", your retailer code, and repair date. Affix to top surface of the right front shock tower (see red arrow). A sufficient supply of labels will be sent directly from Fisker Automotive. Additional Campaign Labels are available through the Parts Order system on the GRID.



NOTE: Example of Recall Campaign Label.

<p>FISKER AUTOMOTIVE, INC.</p> <p>Campaign No: _____</p> <p>Retailer Code: _____</p> <p>Repair Date: ___ / ___ / ___</p> <p>For questions, please contact Consumer Affairs at 855-575-7577</p> <p>C1800TAG002.01</p>

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MODEL YEAR: 2012

TITLE: High Voltage Battery Recall



NOTE: Shipping Hazardous Material

Retailers may be requested to return new or used parts that are considered hazardous materials (HAZMAT). Due to the nature of this practice, Fisker Automotive (FA) requires HAZMAT Training and Certification for at least 1 person at each FA Retailer in accordance with the Code of Federal Regulation requirements (49CFR training).

The following items are considered HAZMAT regardless of shipping method, and may not be shipped by persons without HAZMAT certification:

- Airbags
- Pyrotechnic seatbelts
- Wet filled batteries
- Lithium-Ion Battery

Please use the contact information below for the specific details in the return of the High Voltage Battery.

HV Battery Shipping Instructions

Shipping instructions

Carrier Dealers are to ship via:

Federal Express Freight

A123 Systems Account number for FedEx Freight is # 107752234

Ship the packs to:

Logistics Insight

537 Bradford

Pontiac, MI. 48341

Advance notice of shipment and the tracking number from Federal express should be e-mailed to Karl Schmidt and Mark Giordano.

kschmidt@a123systems.com Cell Phone 857-636-1335

mgiordano@a123systems.com Cell Phone 339-203-3099

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NUMBER: 51611001.03

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MODEL: Karma

MODEL YEAR: 2012

TITLE: High Voltage Battery Recall

PARTS REQUIRED:

PART NUMBER	DESCRIPTION
C131118001001	High Voltage Battery Pack
C1800TAG002	Campaign Label

SHOP SUPPLIES:

DESCRIPTION
N/A

SPECIAL TOOLS:

DESCRIPTION
FST1001 – HV Battery Pack Support Cradle
FST1022 – Battery Lifting Kit
FST9001 – Battery Charging Terminal Adaptor
Midtronics MDX Series Tester (or equivalent)

LABOR CODES:

CODE	DESCRIPTION	TIME	DEFECT CODE
16-20-02-08	Recall 51611001	2.5	16-20-02-98
00-99-20-09	Firmware/Software Update (if required)	0.5	00-99-20-98

SUBLET:

CODE	DESCRIPTION	AMOUNT
HDL	Handling	\$200

CAUSAL PART:

PART NUMBER	DESCRIPTION
C131118001001	High Voltage Battery Pack

WARRANTY DISPOSITION:

Vehicles with a valid warranty

CONTACT:

Fisker Automotive
 5515 E. La Palma
 Anaheim CA 92807
 Tel: +1 949 - 433 -1368 Fax: +1 714 888 4256
 Website: www.fiskerautomotive.com

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