

**NUMBER: 290120033.01****DATE: April 18, 2012****MODEL: Karma****MODEL YEAR: 2012****TITLE: False Setting of U019B - Lost Communication with Battery Charger Control Module****PRIORITY:****If vehicle exhibits the issue****APPLICABILITY:****2012 Karma****MARKET REGION:****U.S., Canada, and Europe****PURPOSE:**

Vehicles that have the MIL illuminated with the following DTC set:

- U019B - Lost Communication with Battery Charger Control Module

Vehicles with Baseline 615 or earlier software have the potential to falsely set DTC U019B – Lost Communication with Battery Charger Control Module when the vehicle is transitioned into Off_Awake or ACC with the EVSE charging plug connected to the vehicle.

A new software update for the Battery Energy Control Module (0156-00-20) has been released to improve the robustness of the BECMs diagnostic capability, resolving U019B from falsely setting under these conditions.

PROCESS OVERVIEW:

1. Preparing vehicle for ECU Flash Reprogramming
2. Connecting to Vehicle and Updating the Diagnostic Data Package
3. VIN Entry
4. BECM Flash Procedure
5. Post Flash Procedure

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1. Preparing Vehicle for ECU Flash Reprogramming

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

- If the voltage is below specification, 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 an ECU.

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

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

1.3. 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**.

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

2. Connecting to the Vehicle and Updating the Diagnostic Data Package

2.1. Connect the WDI to the OBD2 Port located underneath the dash to the left of the steering wheel. Then connect the WDI to the Fisker Laptop via the provided USB cable.

2.2. Open the Fisker Workshop Tester and click on **Add New Diagnostic Package** in the main menu.

2.3. In the next screen, click on the **ODX Update** to download the latest baseline software.

2.4. Next click **Download Descriptors** to view new Release Packages available.

2.5. Under the **Selected Diagnostic Package** menu on the left, look for the latest package available. Click once to highlight it and then click the **Download** button.

2.6. After the download has finished, click and highlight the latest release package again and then click the **Install** button. The release package will now be installed to the Fisker Workshop Tester.

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3. VIN Entry

It is important to enter the correct VIN number (with all letters capitalized) into the Vehicle Identification menu. This will allow the vehicle's **As Built** information to be downloaded to the scan tool.

3.1. Enter the VIN number for the vehicle manually by entering it in the text box or use a Stored Session Log if the VIN has been used previously.

3.2. Verify the VIN is correct and click **Next Action** and continue to the System Navigation menu.

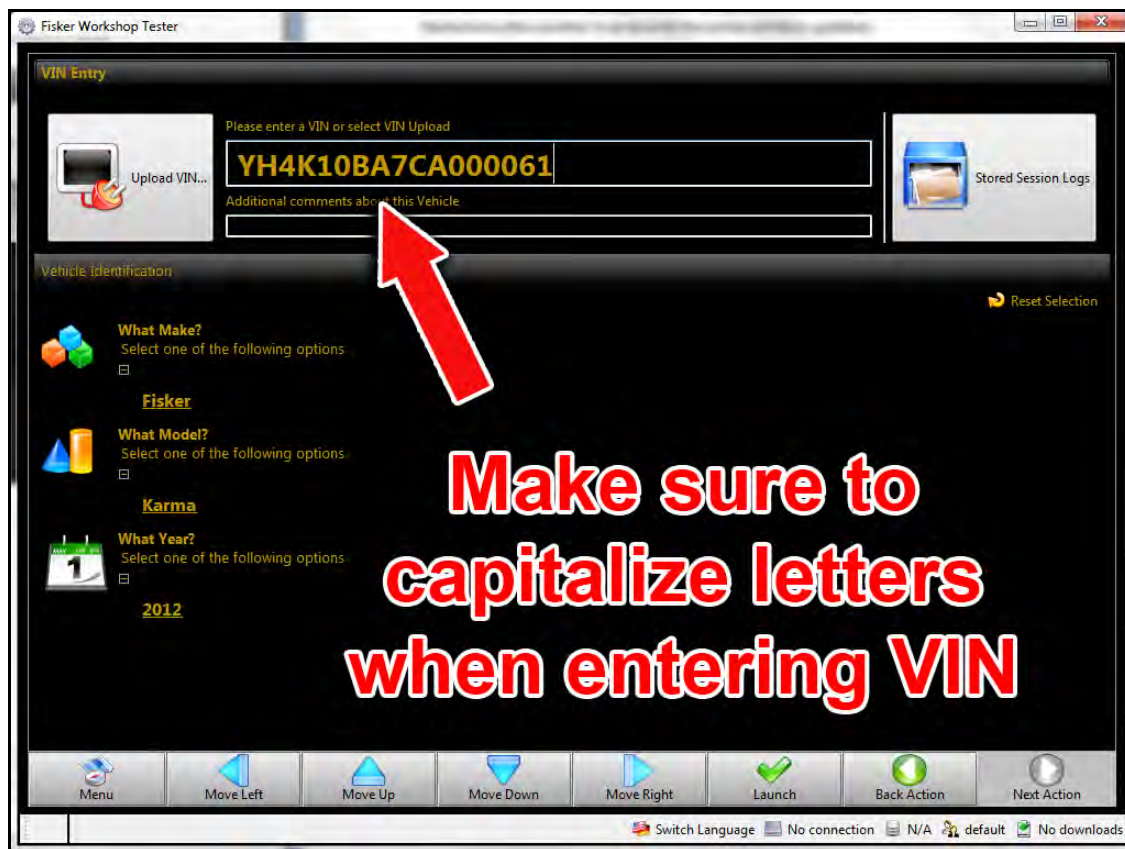


Figure 3.A

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4. Battery Energy Control Module Flash Procedure



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.

4.1. In the Flash Application Lite screen, select **Battery Energy Control Module** (BECM) under the ECU drop-down menu and select the following files to flash the BECM:

ECU	Battery Energy Control Module
SBL	BECM_SBL_0154_00_03.zip
APP	BECM_APP_0156_00_20.zip
CAL	BECM_CAL_014F_00_00.dsc.hex

Figure 4.A

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4.2. Once the correct files to flash the **Battery Energy Control Module** have been selected; Press the **Flash** button at the bottom right of the screen to begin.

4.3. You will be asked to confirm you have the correct files selected for the ECU you are flashing.

- Click **Yes** to continue or **No** to cancel.
- The scan tool will now begin to flash the ECU. 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 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 Battery Energy Control Module takes approximately 10 minutes to flash.*

5. Post Flash Procedures

5.1. After the vehicle has finished updating, power it down and allow it to go into sleep mode by waiting approximately two minutes without disturbing the vehicle. This will perform a soft reset of the ECUs.

- Once the Drive Select Unit (PRND Switch) backlighting has turned off, the vehicle will be asleep.

5.2. Power up the vehicle to **System Ready** and clear any diagnostic trouble codes (DTC) that may be set. If the DTCs return, diagnose accordingly.

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SERVICE BULLETIN

FISKER AUTOMOTIVE, INC.

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PARTS REQUIRED:

PART NUMBER	DESCRIPTION
N/A	

SHOP SUPPLIES:

DESCRIPTION
N/A

SPECIAL TOOLS:

DESCRIPTION
N/A

LABOR CODES:

CODE	DESCRIPTION	TIME	DEFECT CODE
00-99-22-06	Bulletin 290120033 / Repair	0.2	00-99-22-98

SUBLET:

CODE	DESCRIPTION	AMOUNT
N/A		

CAUSAL PART:

PART NUMBER	DESCRIPTION
C131118001001	High Voltage Battery Pack

WARRANTY DISPOSITION:

Vehicles with a valid warranty

CONTACT:

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