

**NUMBER: 316120002.01****MODEL: Karma****DATE: January 11, 2012****MODEL YEAR: 2012****TITLE: Front Inverter Grounds****PRIORITY:**

Vehicles in Operation

APPLICABILITY:

2012 Karma

MARKET REGION:

U.S., Europe

PURPOSE:

All Fisker Karma vehicles produced prior to VIN# YH4K14AA9CA001222 were assembled with incorrect ground locations for the Front Inverter and paint on the mating surface of the bulkhead is causing insufficient ground connections. This Campaign will be used as a reference guide for technicians to perform necessary repairs to properly disconnect these ground wires, swap mounting locations, and remove paint from ground wire mating surfaces on bulkhead.

PROCESS OVERVIEW:

Front Inverter Ground Wire Correction

1. Disconnect Negative Battery Harness
2. Correct Inverter Ground Wiring Locations and Connections

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CAMPAIGN

FISKER AUTOMOTIVE, INC.

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TITLE: Front Inverter Grounds

VIN: All vehicles produced prior to VIN# YH4K14AA9CA001222

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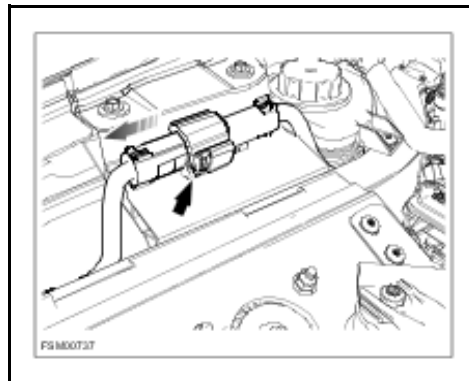
Front Inverter Ground Wire Correction and Connections

Disconnect Negative Battery Harness

1a. Open hood.

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

1b. Release clip and disconnect 12 volt negative battery harness connector C104.



12 volt battery negative connector C104

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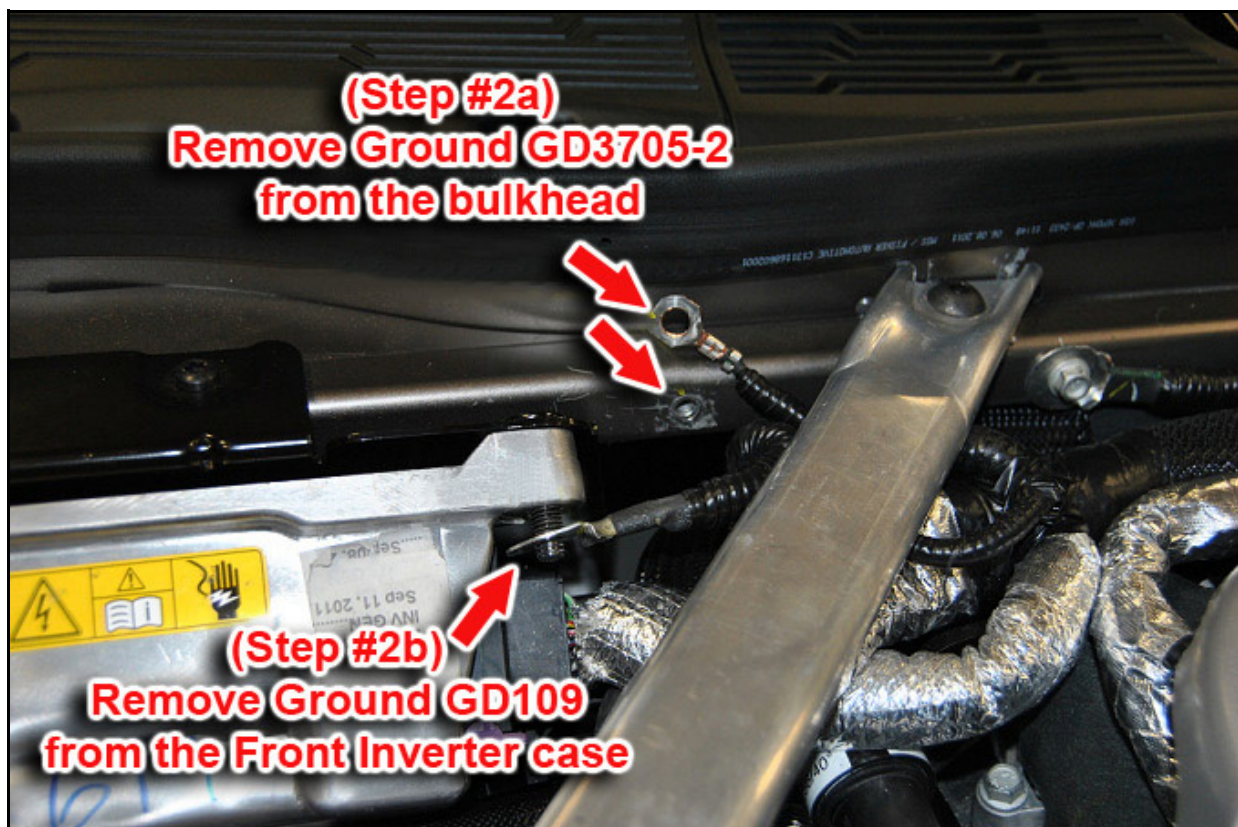
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Correct Inverter Ground Wiring Locations

2a. Harness ground wire GD3705-2 is installed in the wrong location. Unbolt harness ground GD3705-2 (Step #2a in photo below) from the bulkhead.

2b. Ground wire GD109 is installed in the wrong location. Remove the nut from the upper right-hand stud of Front Inverter, remove the GD109 ground wire from stud (Step #2b in photo below), and save the nut for reuse.



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2c. Enlarge the eyelet hole on ground wire GD3705-2 from 6 mm to 8 mm using a suitable reamer tool or a 5/16-inch drill bit.

NOTE: If the ground eyelet is damaged during the rework, replace with a suitable 8 mm electrical eyelet.



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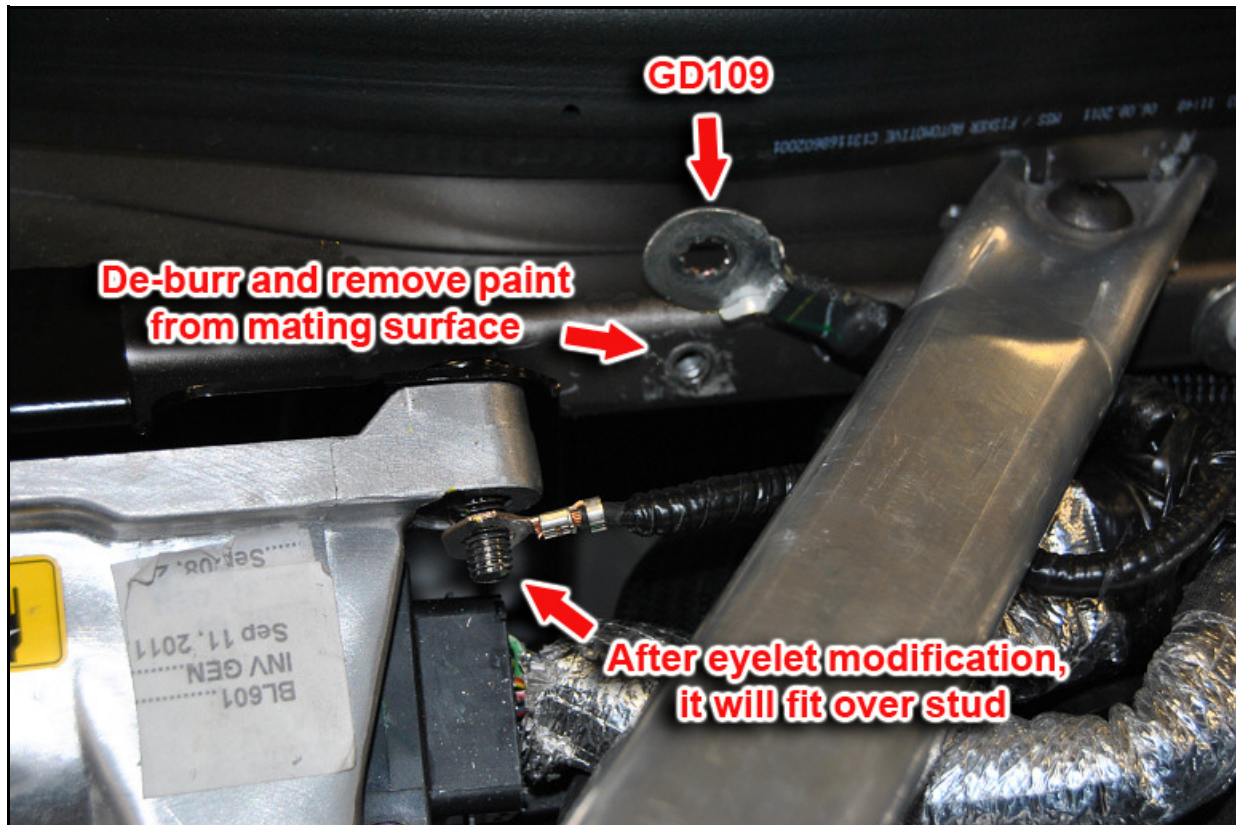
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2d. De-burr and remove paint from bulkhead surface where eyelet for GD109 will attach in order to promote a good ground (image below shows conditions before cleaning and de-burring).



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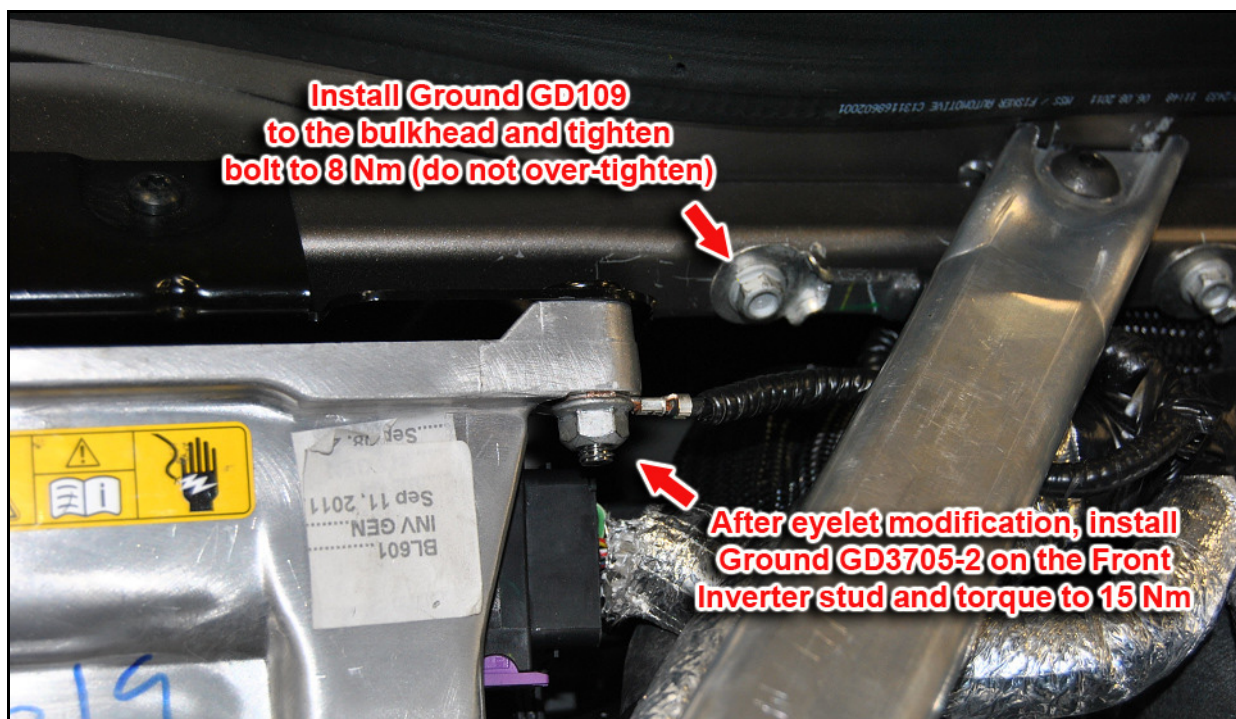
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2e. Attach ground eyelet GD109 to bulkhead (as shown below). Torque the bolt to 8 Nm (Do Not Over-tighten).

2f. Attach the modified eyelet with enlarged hole (Ground GD3705-2) to the Front Inverter case stud (as shown below) and torque the nut to 15 Nm.



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2g. Unbolt inverter ground eyelet GD107 (referenced in photo below) from bulkhead. De-burr and remove paint from mating surface between the ground eyelet and bulkhead.

2h. Attach ground eyelet GD107 to bulkhead (as shown below). Torque the bolt to 8 Nm (Do Not Over-tighten).



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2i. Reconnect 12 volt negative battery harness connector C104.

2j. To confirm good grounding has been achieved, check for unwanted voltage drop between ground GD109 and GD3705-2 (see arrows in photo below) after assembly. If voltage drop is present, confirm eyelets are touching bare aluminum surface on bulkhead, reinstall, and retest.



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2k. Paint a white dot on ear of Front Inverter case (as shown in photo below) after ground wire placement and ground connections have been fixed.



2l. Verify operation of all vehicle functions.

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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
16-40-01-07	Campaign 316120002 / Repair	0.5	16-40-01-98

SUBLET:

CODE	DESCRIPTION	AMOUNT
N/A		

CAUSAL PART:

PART NUMBER	DESCRIPTION
C131110502002	Inverter

WARRANTY DISPOSITION:

Vehicles with a valid warranty

CONTACT:

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