

**NUMBER: 390120010.01****MODEL: Karma****DATE: January 22, 2012****MODEL YEAR: 2012****TITLE: Ground Connection Rework****PRIORITY:**

Vehicles in Operation

APPLICABILITY:

2012 Karma

MARKET REGION:

U.S., Europe

PURPOSE:

Proper grounding is essential for the functionality of the Fisker Karma. This Campaign is to address 14 ground points in the 12 Volt System that have high electrical resistance due to the insulation properties of the installed hardware. The 14 ground points are to be inspected, cleaned of any paint residue and new hardware installed. The following instructions will guide the technician through a thorough inspection and repair of the 14 ground points. In addition, a ground strap is to be installed between the RH A-Post and the Instrument Panel (IP) which will improve the ground circuit within the IP. Please see the matrix on the following page that identifies the ground points and related hardware.

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Location	Ground Point / APM Terminal	BOLT-HEX SS M8 X 1.25 X 25.0	BOLT-HEX SS M6 X 1.0 X 16.0	NUT-HEX FL PTP M8x1.25 PC8	GROUND STRAP	WASHER-STAINLESS STEEL M8 X 17.0 X 1.6	WASHER-STEEL 6.0 X 20.0 X 1.5	Heat Shrink Repair
A1	GD112					1		
A2	GD109		1				1	
A3	GD107		1				1	
A4	D0205-2	1						
A5	D0205-2							1
A6	D0205-3			1				
A7	GD110					1		
B1	GD202 C1				1	1		
B2	GD203 C1					1		
B3		1				1		
B4	GD209		1				1	
B5	GD210		1				1	
B6		1				1		
B7	GD200					1		
B8	GD201					1		
TOTAL		3	4	1	1	8	4	1

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PROCESS OVERVIEW:

1. Isolation Procedure for 12 Volt Battery
2. LOCATION A1 – Cylinder Block Ground GD112 – Repair
3. LOCATION A2 & A3 – Bulkhead Ground GD109 and GD107 – Repair
4. LOCATION A4 & A5 – APM Ground D0205-2 – Repair
5. LOCATION A6 – APM Power Wire D0205-3 – Repair
6. LOCATION A7 – A/C Compressor Clutch Ground GD110 – Repair
7. Remove Right-Hand A-Pillar Lower Trim
8. LOCATION B1 – Right-Hand A-Pillar Instrument Panel Ground GD202 C1 – Repair
9. LOCATION B2 – Right-Hand A-Pillar Body Ground GD203 C1 – Repair
10. LOCATION B3 – Right-Hand Instrument Panel Cross Member Bracket Ground – Repair
11. LOCATION B4 & B5 – Grounds GD209 (B4) and GD210 (B5) – Repair
12. Install Right-Hand A-Pillar Lower Trim
13. Remove Left-Hand A-Pillar Lower Trim
14. LOCATION B6 – Left-Hand Instrument Panel Cross Member Bracket Ground – Repair
15. LOCATION B7 and B8 – Left-Hand A-Pillar Body Ground GD200 C1 and Instrument Panel GD201 C1 – Repair
16. Install Left-Hand A-Pillar Lower Trim
17. Check Security of Both the 12 Volt Positive and Negative Cable
18. Reconnect 12 Volt Battery and Verify Electrical Functions
19. File Technical Support System (TSS) Claim
20. Necessary Hardware (Image)

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CAMPAIGN

FISKER AUTOMOTIVE, INC.

NUMBER: 390120010.01

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VIN: All vehicles produced prior to VIN# YH4K14AA4CA000852

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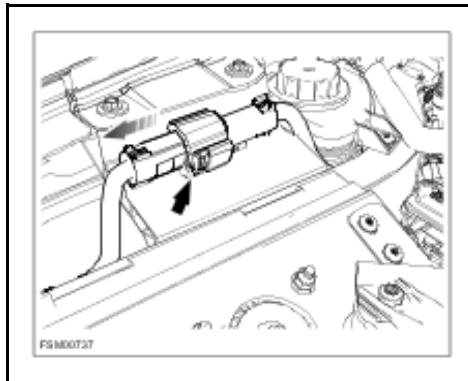
Repair Insufficient Ground Locations

Isolation Procedure for 12 Volt Battery

1a. Open hood.

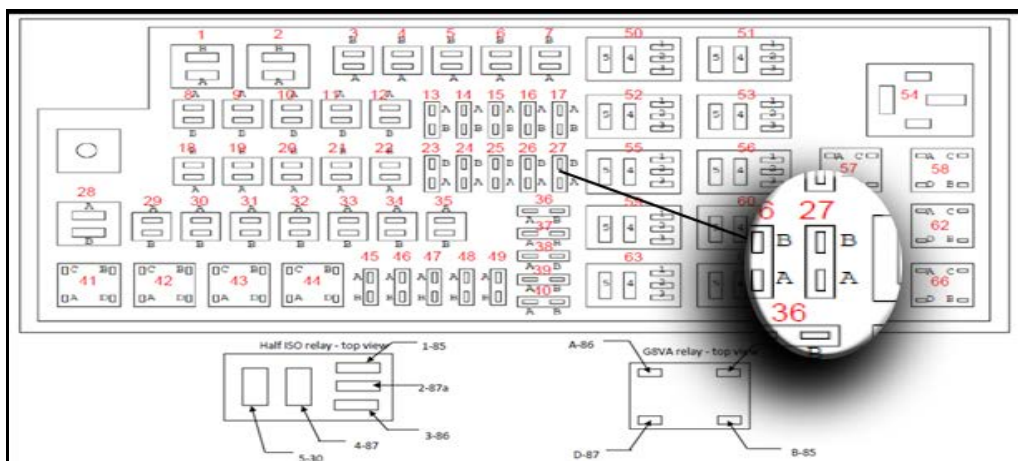
NOTE: Be sure the Start/Stop Button (SSB) is in the **OFF** position before going to next step.

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



12 Volt Battery Negative Connector C104

1c. 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 fully discharge the 12 volt system.

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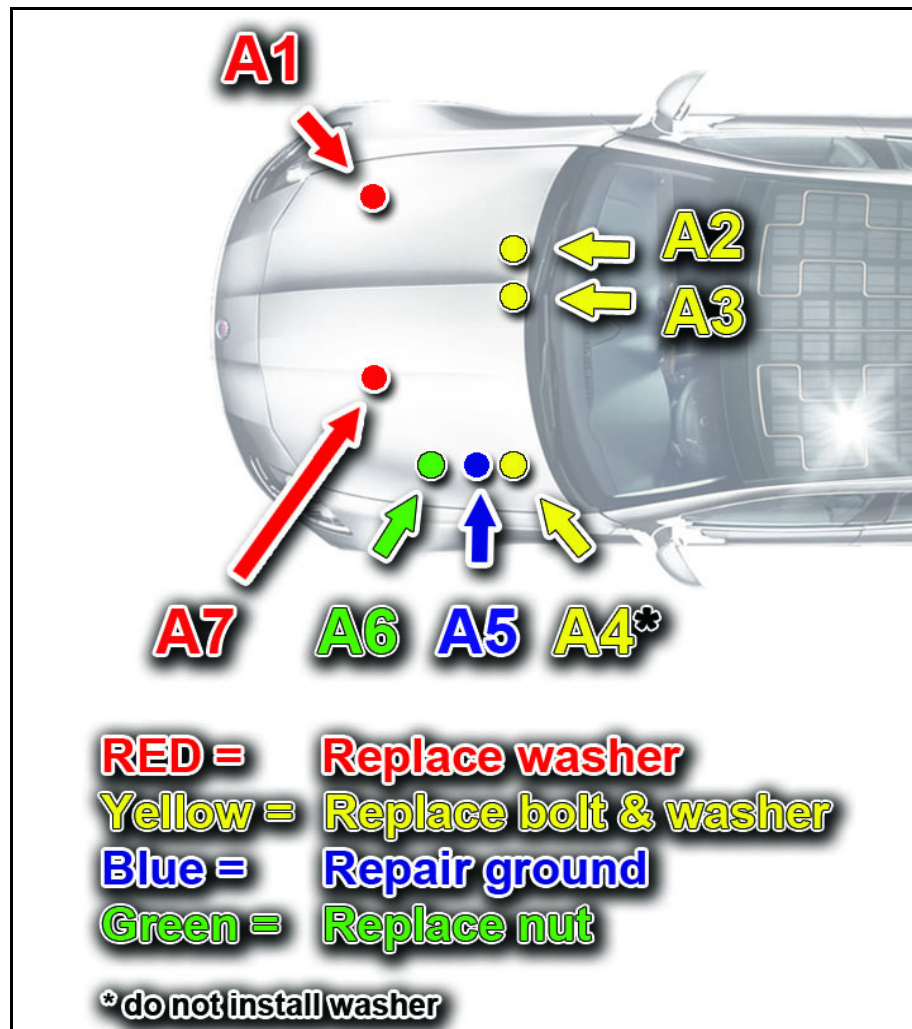
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NOTE: Image below shows locations of ground wire connections to repair located in the engine compartment. Each ground location is designated with a letter for reference of repair steps included in this document.

- Locations in **RED** will receive a replacement washer under the head of the ground bolt or ground nut.
- Locations in **YELLOW** will receive a replacement ground bolt (except where noted).
- Location in **BLUE** will be checked/repaired if heat shrink tube or its glue is under the head of the bolt.
- Location in **Green** will receive a replacement nut.



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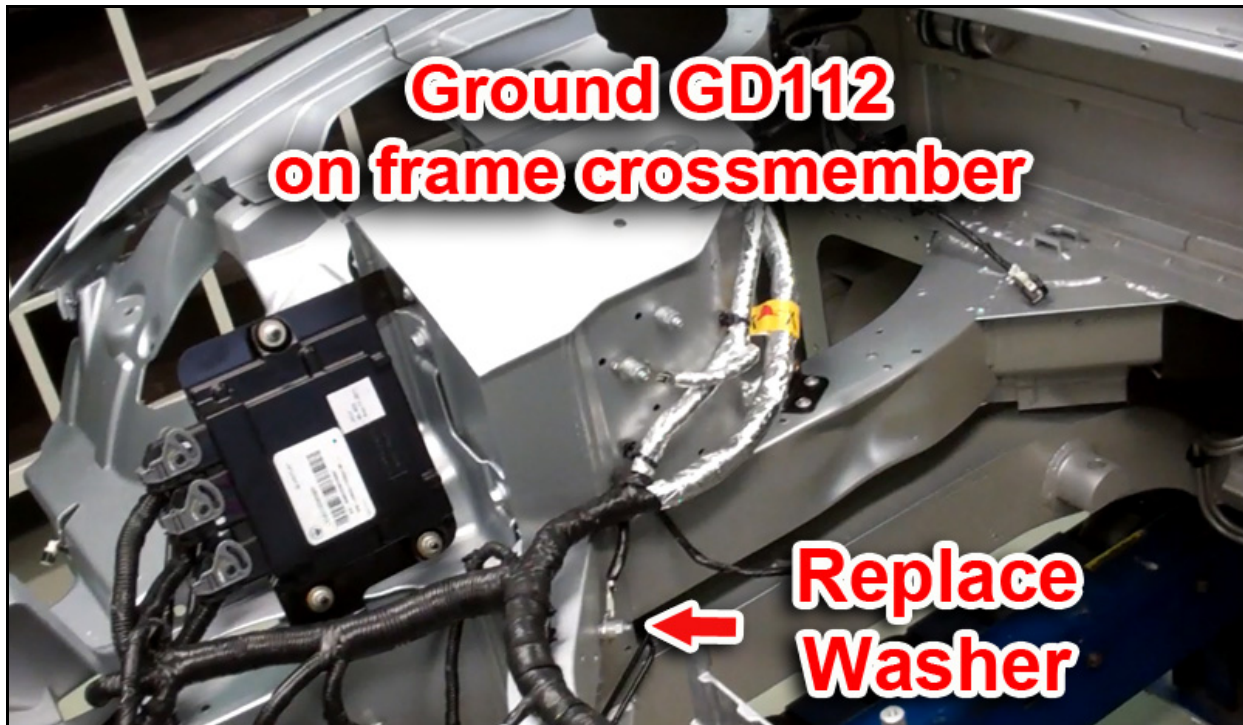
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LOCATION A1 – Cylinder Block Ground GD112 – Repair

2a. Locate ground GD112 on frame crossmember.

2b. Remove ground wire nut from ground stud.



2c. Remove paint from mating ground surfaces, if present.

2d. Install ground wire (if you removed wire for cleaning mating surfaces) over stud.

2e. Install new replacement Washer (Stainless Steel M8 X 17.0 X 1.6 – PN: C146000907200).

2f. Install ground nut and torque to 10 +/- 5 Nm.

2g. Mark nut with dab of white marking paint to identify this work has been done.

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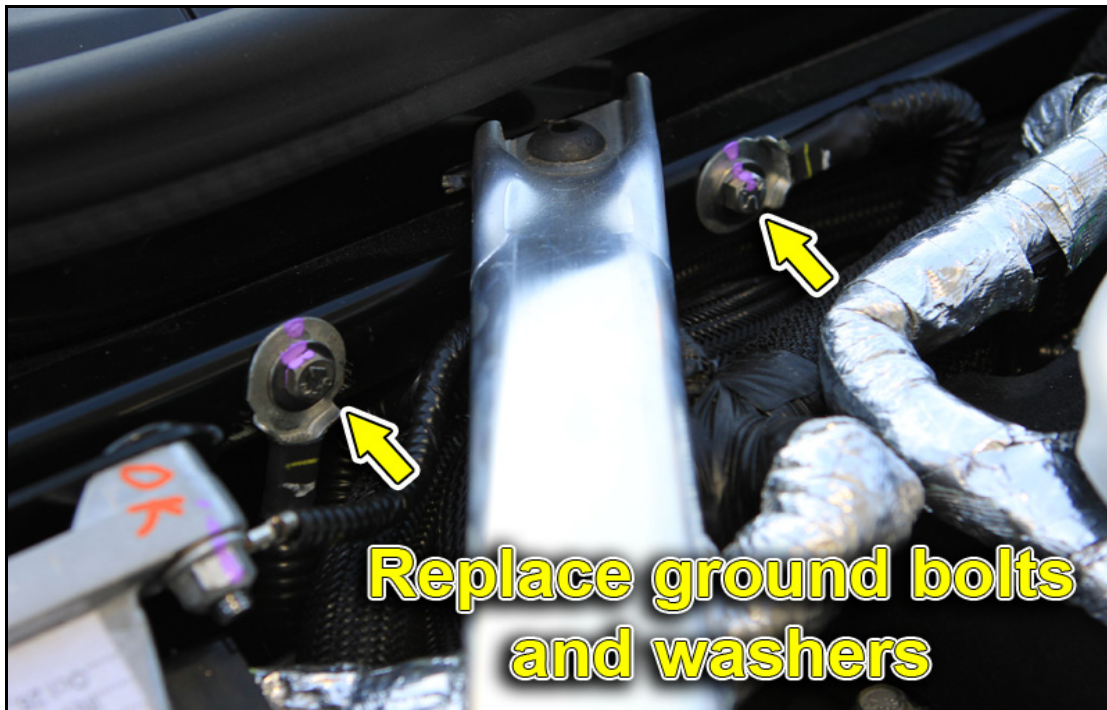
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LOCATION A2 & A3 – Bulkhead Ground GD109 and GD107 – Repair

3a. Locate grounds GD109 and GD107 from the bulkhead (see image below).

3b. Remove bolts.



3c. Remove paint from mating ground surfaces, if present.

3d. Install ground wires with new replacement Hex-Bolt (SS M6 X 1.0 X 16.0 – PN: C141900200200) and Washer (Steel 6.0 X 20.0 X 1.5 – PN: C146000007200).

3e. Install ground bolt and torque to 8 +/- 2 Nm (do not overtighten, captured nuts are easily damaged).

3f. Mark bolt with dab of white marking paint to identify this work has been done.

LOCATION A4 & A5 – APM Ground D0205-2 – Repair

4a. Locate negative ground D0205-2 on APM.

4b. Remove bolt.

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4c. Examine ground for heat shrink tube or its adhesive improperly located under the ground bolt washer.

- If heat shrink tube or its adhesive is under ground washer, go to next step.
- If heat shrink tube or its adhesive is not under ground washer, go to step 4e.



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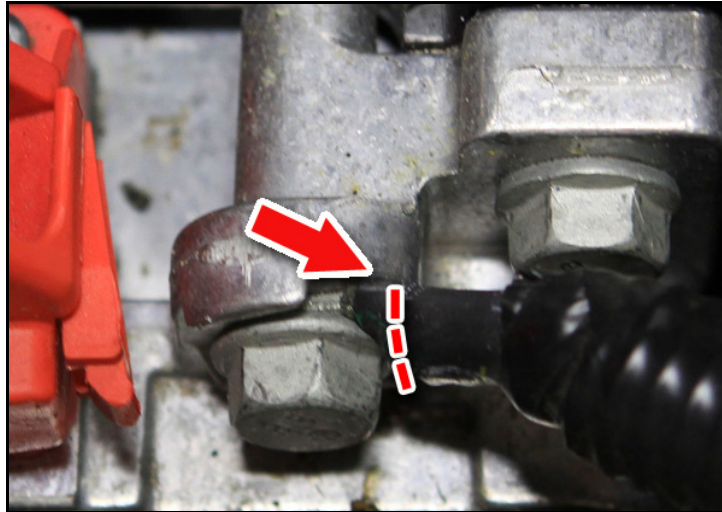
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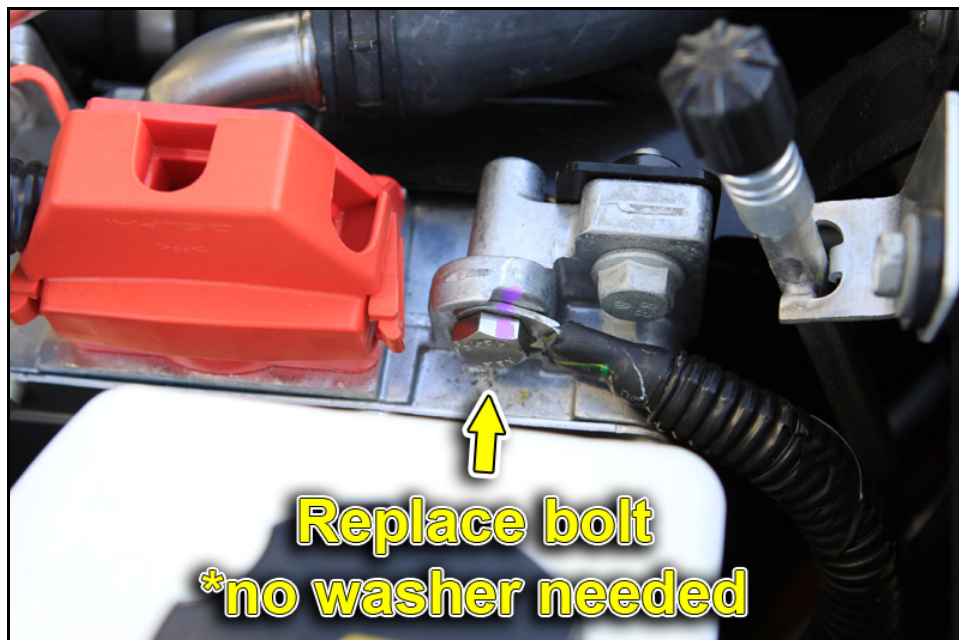
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4d. Trim heat shrink tubing back to red dotted-line (see image below), so that it's not interfering with ground washer and then clean off heat shrink adhesive.



Example: Improperly installed heat shrink and incorrect ground bolt.



Example: Corrected heat shrink and proper replacement ground bolt.

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4e. Install ground wire and new replacement Hex-Bolt (Stainless Steel SS M8 X 1.25 X 25.0 – PN: C141900100200) (no washer required), then torque to 18 +/- 5 Nm.

4f. Mark bolt with dab of white marking paint to identify this work has been done.

LOCATION A6 – APM Power Wire D0205-3 – Repair

5a. Remove red plastic protective cover from APM power wire junction block (see image below).

5b. Remove nut from APM power wire (see image below).



5c. Install new replacement nut.

5d. Install ground Hex-Nut (FL PTP M8x1.25 PC8 – PN: C144211807200) and torque to 18 +/- 5 Nm.

5e. Mark nut with dab of white marking paint to identify this work has been done.

5f. Re-install red plastic protective cover.

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LOCATION A7 – A/C Compressor Clutch Ground GD110 – Repair

6a. Locate A/C compressor clutch ground GD110 on driver's side of engine behind coolant hose (for specific ground location, see image below).

6b. Remove bolt.



6c. Install ground wire (if you removed wire for cleaning mating surfaces).

6d. Install new replacement Washer (Stainless Steel M8 X 17.0 X 1.6 – PN: C146000907200).

6e. Install ground bolt and torque to 25 Nm.

6f. Mark bolt with dab of white marking paint to identify this work has been done.

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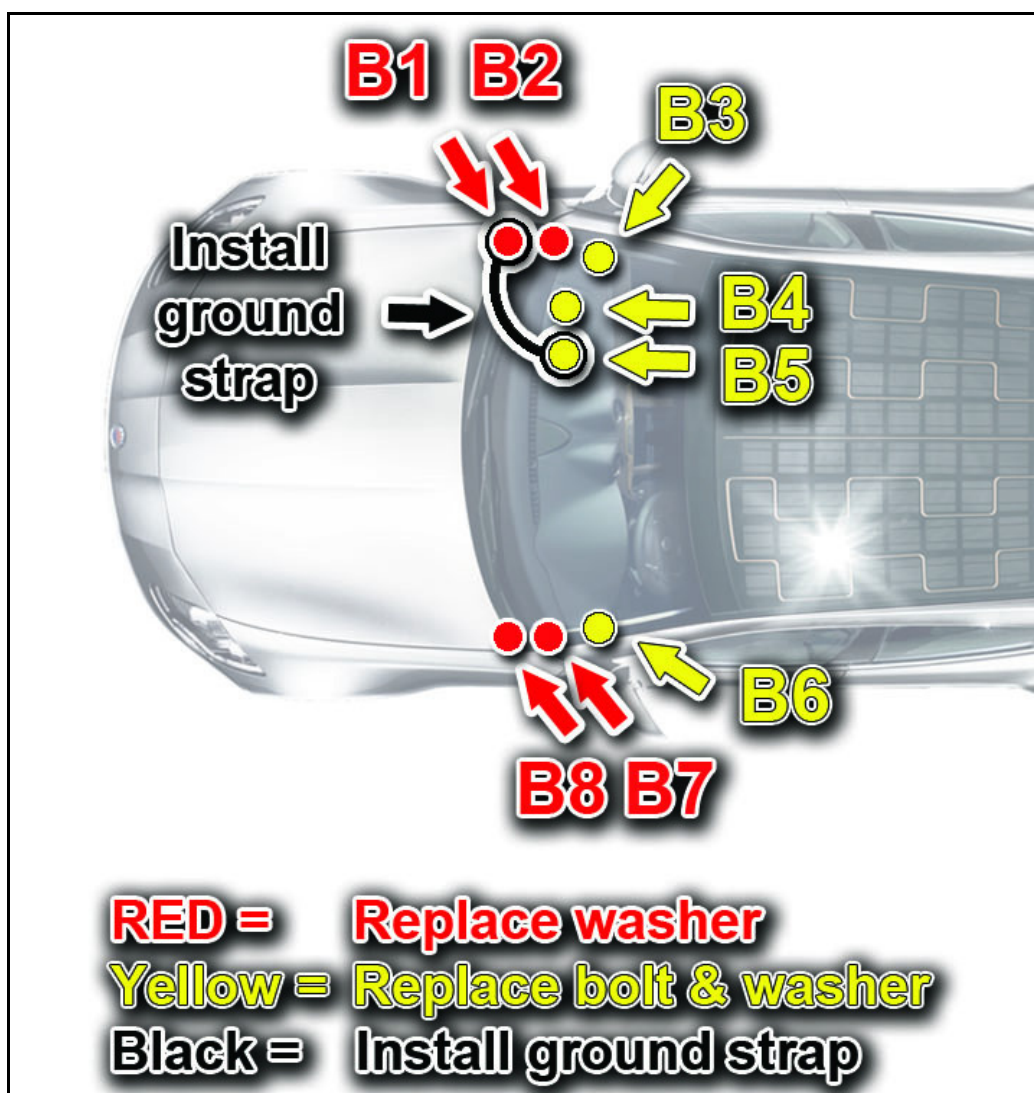
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- Locations in **RED** will receive a replacement washer under the head of the ground nut.
- Locations in **YELLOW** will receive a replacement ground bolt to improve ground.
- Location in **BLACK** will receive a ground strap.



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Remove Right-Hand A-Pillar Lower Trim

For insufficient ground locations B1 – 5, it will be necessary to remove A-pillar lower trim to gain access for repairs.

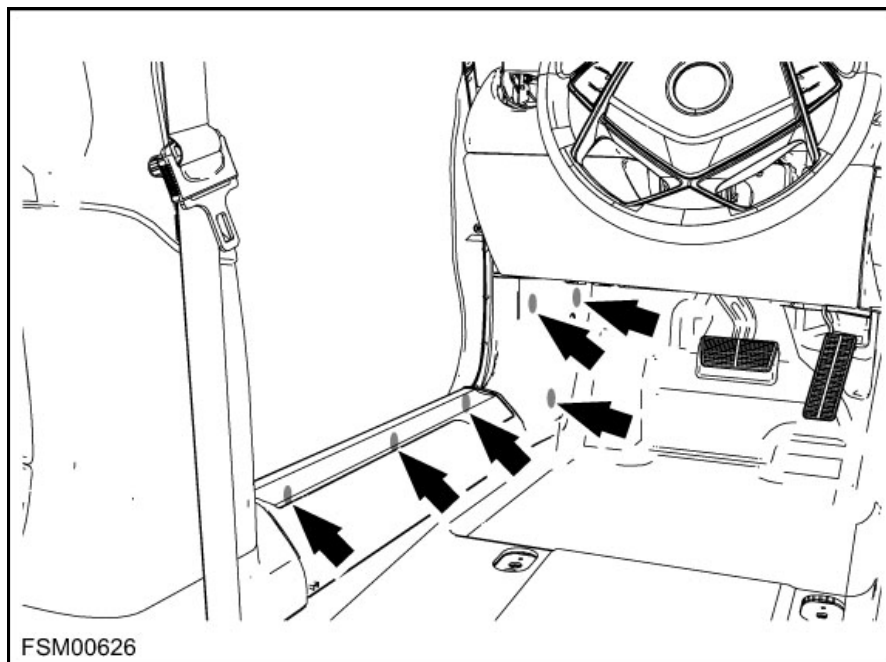
NOTE: Images show left-hand side interior panels. Removal procedures are the same for removal of lower A-pillar trim panels on the left and right-hand side of vehicle.



Caution:

Take care not to damage trim components.

- 7a. Release clips (x3 - see arrows in image below) securing right-hand front scuff plate.
- 7b. Release clips (x3 - see arrows in image below) securing right-hand A-pillar trim to body.
- 7c. Remove both right-hand lower interior trim mouldings.



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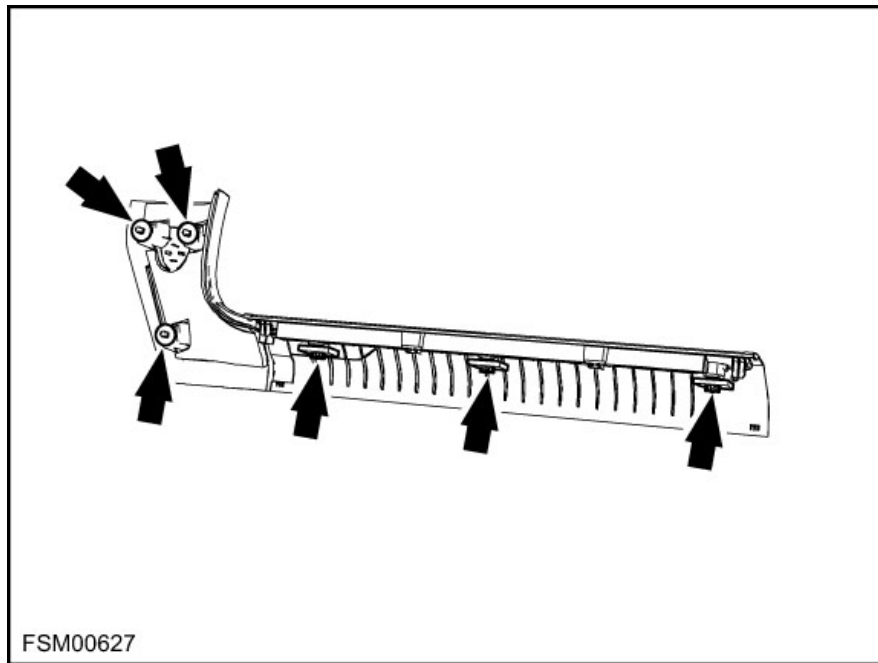
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7d. Check clips (x6 - see arrows in image below) of right-hand A-pillar lower trim and front scuff plate for damage and replace if necessary.



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LOCATION B1 – Right-Hand A-Pillar Instrument Panel Ground GD202 C1 – Repair

8a. Locate right-hand A-pillar instrument panel ground GD202 C1 on lower right-hand A-pillar wall.

8b. Remove ground wire nut from ground stud.



8c. Remove paint from mating ground surfaces, if present.

8d. Install existing ground wire (if you removed wire for cleaning mating surfaces) over stud.

8d. Install one end of new Ground Strap (PN: C148700107200) over stud.

8e. Install new replacement Washer (Stainless Steel M8 X 17.0 X 1.6 – PN: C146000907200).

8f. Install ground nut and torque to 10 +/- 5 Nm.

8g. Mark nut with dab of white marking paint to identify this work has been done.

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LOCATION B2 – Right-Hand A-Pillar Body Ground GD203 C1 – Repair

9a. Locate right-hand A-pillar body ground GD203 C1 on lower right-hand A-pillar wall.

9b. Remove ground wire nut from ground stud.



9c. Remove paint from mating ground surfaces, if present.

9d. Install ground wire (if you removed wire for cleaning mating surfaces) over stud.

9e. Install new replacement Washer (Stainless Steel M8 X 17.0 X 1.6 – PN: C146000907200).

9f. Install ground nut and torque to 10 +/- 5 Nm.

9g. Mark nut with dab of white marking paint to identify this work has been done.

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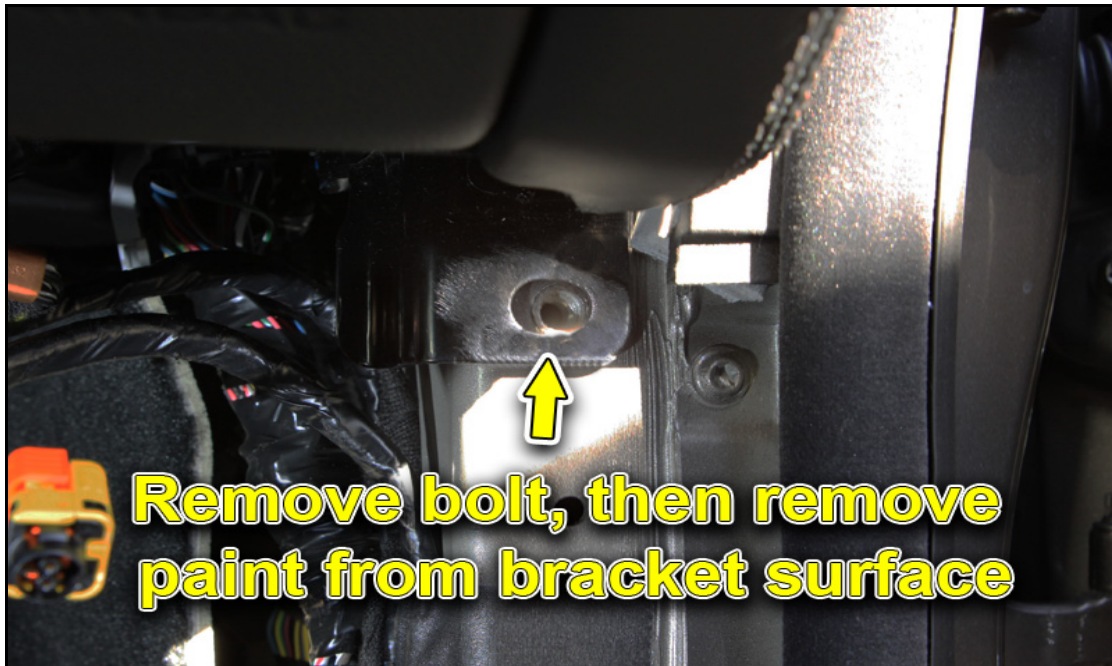
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LOCATION B3 – Right-Hand Instrument Panel Cross Member Bracket Ground – Repair

10a. Locate lower Instrument Panel (IP) cross member bracket bolt on right-hand A-pillar.

10b. Remove bolt.



10c. Remove paint from face of IP cross member bracket at bolt location.

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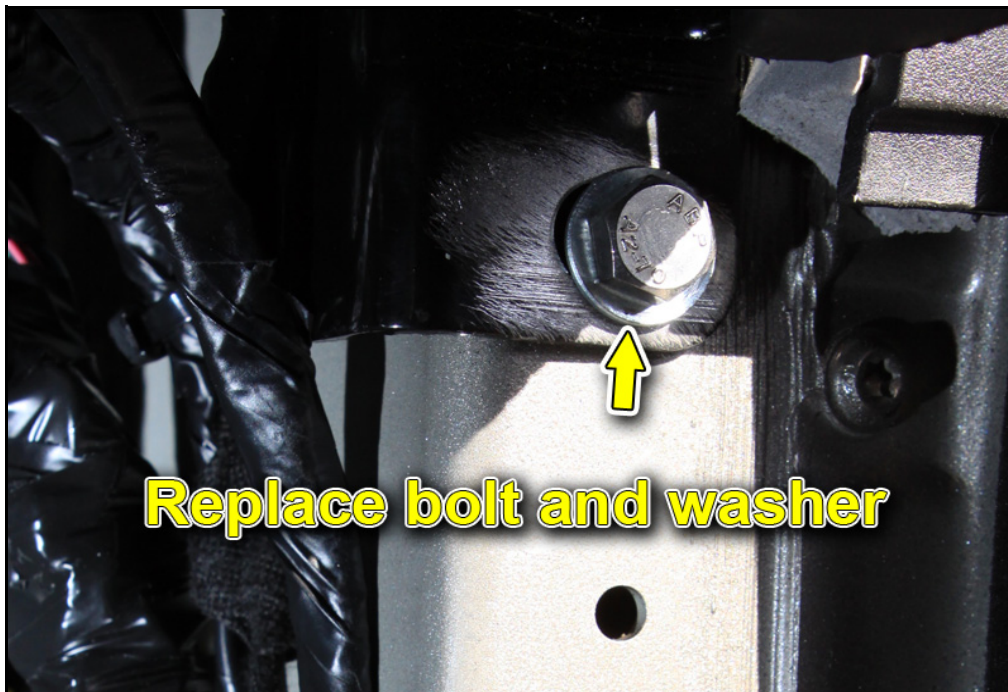
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10d. Install new Hex-Bolt (SS M8 X 1.25 X 25.0 – PN: C141900100200) and replacement Washer (Stainless Steel M8 X 17.0 X 1.6 – PN: C146000907200) (torque to 10 +/- 5 Nm).



10e. Mark bolt with dab of white marking paint to identify this work has been done.

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LOCATION B4 & B5 – Grounds GD209 (B4) and GD210 (B5) – Repair



WARNING!

To avoid personal injury observe all relevant safety precautions before removing, testing, or disconnecting any Supplemental Restraint System (SRS) components.



WARNING!

The following steps requires disconnecting one of the Supplemental Restraint System (SRS) components. Before proceeding, confirm that the 12 volt negative battery connector C104 under the hood is disconnected.

11a. Locate grounds GD209 and GD210 on IP cross member bracket under passenger side of dash (to the right of the passenger knee airbag).

11b. Remove yellow and orange electrical connector from airbag (if necessary, you can use a small screw driver to assist removal by inserting tip into small slot [see image below] in connector to give more leverage - be careful not to pry connector apart or damage it).



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11c. Remove bolts from IP audio ground GD209 location (on right) and cowl IP ground GD210 location (on left).



11d. Remove paint from face of IP brace at bolt locations.

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TITLE: Ground Connection Rework

11e. Install replacement Hex-Bolt (SS M6 X 1.0 X 16.0 – PN: C141900200200) and Washer (Steel 6.0 X 20.0 X 1.5 – PN: C146000007200) with cowl IP ground GD209 (torque to 8 +/- 2 Nm).

11f. Install replacement Hex-Bolt (SS M6 X 1.0 X 16.0 – PN: C141900200200) and Washer (Steel 6.0 X 20.0 X 1.5 – PN: C146000007200) with IP audio ground GD210 and the unattached end of the Ground Strap (PN: C148700107200) installed in step 8 (page 16) (torque to 8 +/- 2 Nm).



11g. Mark bolt heads with dab of white marking paint to identify this work has been done.



WARNING!

This step requires reconnecting one of the Supplemental Restraint System (SRS) components. Before proceeding, confirm that the 12 volt negative battery connector C104 under the hood is disconnected.

11h. Carefully re-connect airbag connector and confirm it is fully seated.

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NUMBER: 390120010.01

MODEL: Karma

DATE: January 22, 2012

MODEL YEAR: 2012

TITLE: Ground Connection Rework

Install Right-Hand A-Pillar Lower Trim

12a. Install right-hand A-pillar lower trim (installation process is reverse of removal – see steps 7a through 7d).

Remove Left-Hand A-Pillar Lower Trim

For insufficient ground locations B6 through B8, it will be necessary to remove A-pillar lower trim to gain access for repairs.



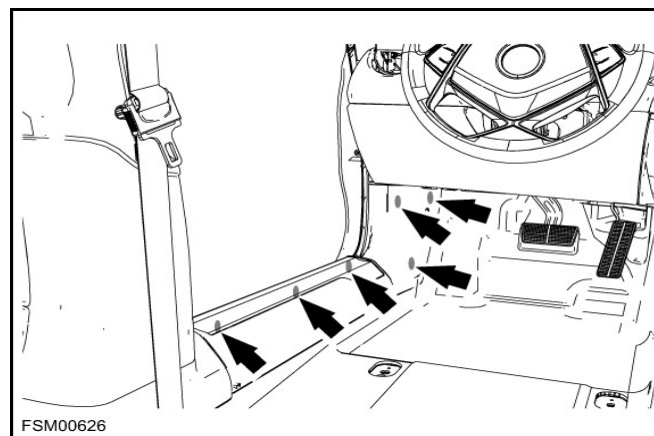
Caution:

Take care not to damage trim components.

13a. Release clips (x3 - see arrows in image below) securing left-hand front scuff plate.

13b. Release clips (x3 - see arrows in image below) securing left-hand A-pillar trim to body.

13c. Remove both left-hand lower interior trim mouldings.



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NUMBER: 390120010.01

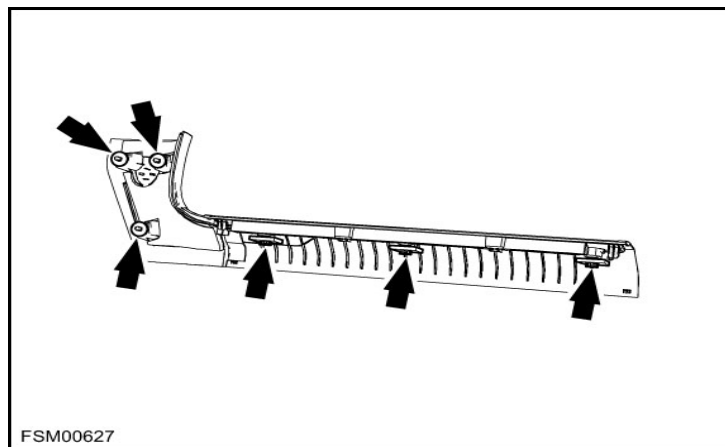
MODEL: Karma

DATE: January 22, 2012

MODEL YEAR: 2012

TITLE: Ground Connection Rework

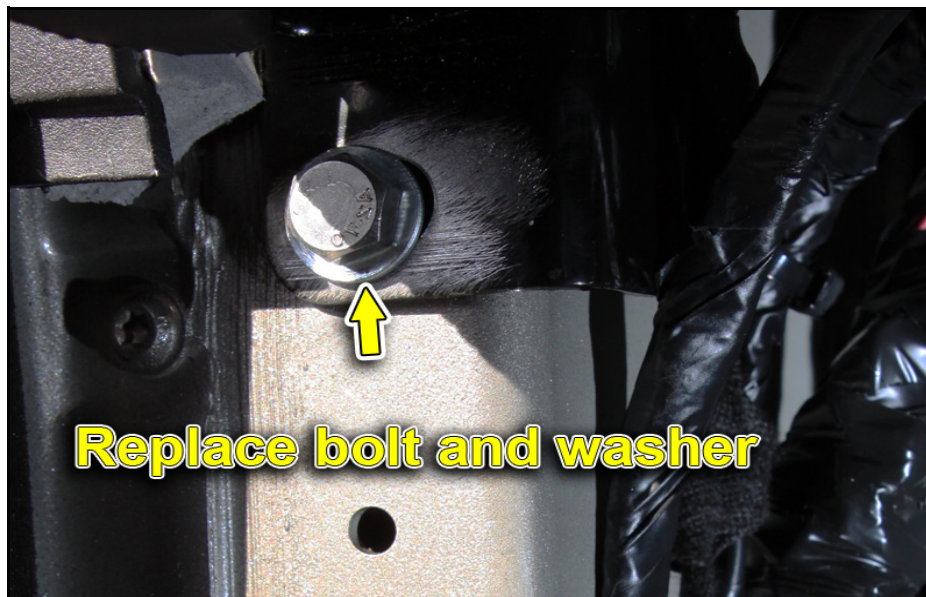
13d. Check clips (x6 - see arrows in image below) of left-hand A-pillar lower trim and front scuff plate for damage and replace if necessary.



LOCATION B6 – Left-Hand Instrument Panel Cross Member Bracket Ground – Repair

14a. Locate lower Instrument Panel (IP) cross member bracket bolt on left-hand A-pillar.

14b. Remove bolt.



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NUMBER: 390120010.01

MODEL: Karma

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TITLE: Ground Connection Rework

14c. Remove paint from face of IP cross member bracket at bolt location.

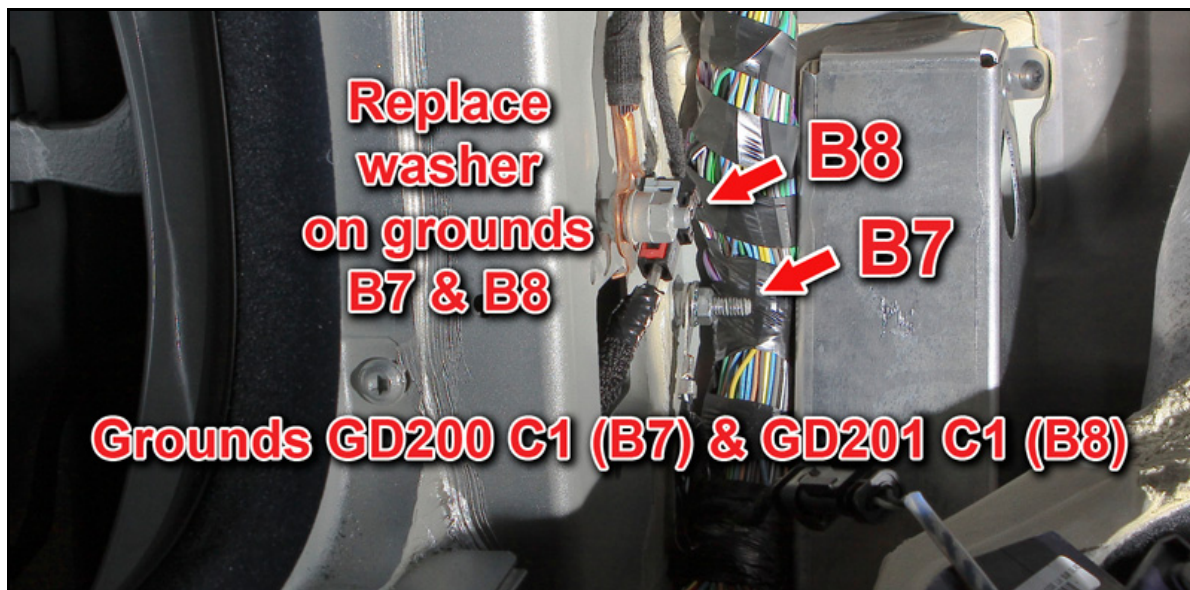
14d. Install new Washer (Stainless Steel M8 X 17.0 X 1.6 – PN: C146000907200) and replacement Washer (Stainless Steel M8 X 17.0 X 1.6 – PN: C146000907200) (torque to 10 +/- 5 Nm).

14e. Mark bolt with dab of white marking paint to identify this work has been done.

LOCATION B7 and B8 – Left-Hand A-Pillar Body Ground GD200 C1 and Instrument Panel GD201 C1 – Repair

15a. Locate left-hand A-pillar body ground GD200 C1 and instrument panel ground GD201 C1 on lower right-hand A-pillar wall.

15b. Remove ground wire nut from ground studs.



15c. Remove paint from mating ground surfaces, if present.

15d. Install the ground wires over the stud you removed them from (if you removed wires for cleaning mating surfaces).

15e. Install one new replacement Washer (Stainless Steel M8 X 17.0 X 1.6 – PN: C146000907200) over each stud.

15f. Install ground nuts and torque both to 10 +/- 5 Nm.

15g. Mark nut with dab of white marking paint to identify this work has been done.

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NUMBER: 390120010.01

MODEL: Karma

DATE: January 22, 2012

MODEL YEAR: 2012

TITLE: Ground Connection Rework

Install Left-Hand A-Pillar Lower Trim

16a. Install left-hand A-pillar lower trim (installation process is reverse of removal – see steps 9a through 9d).

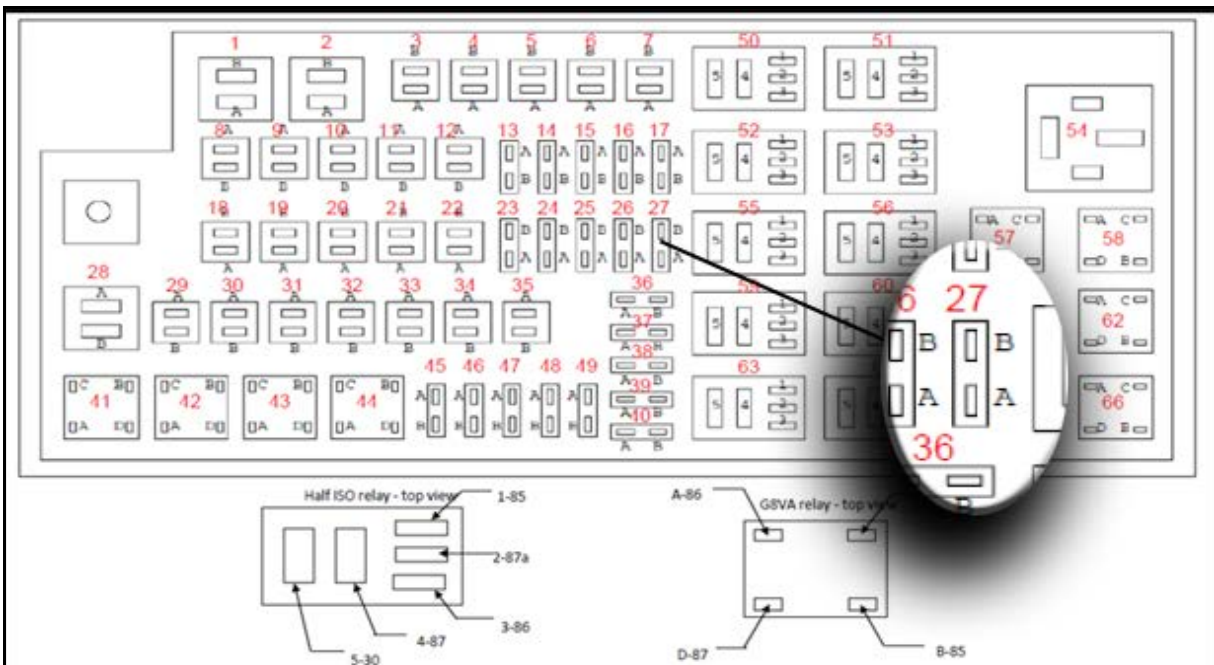
Check Security of Both the 12 Volt Positive and Negative Cable

17a. Confirm (by hand) that the 12 volt positive and negative battery cables are not loose on the 12 volt battery.

– If they are loose, tighten them (follow process in Fisker Service Manual).

Reconnect 12 Volt Battery and Verify Electrical Functions

18a. Reconnect the 12 Volt battery via connector C104 and install Fuse 27 (25 amps).



18b. Reconnect the 12 volt battery via connector C104.

18c. Verify operation of all electrical functions.

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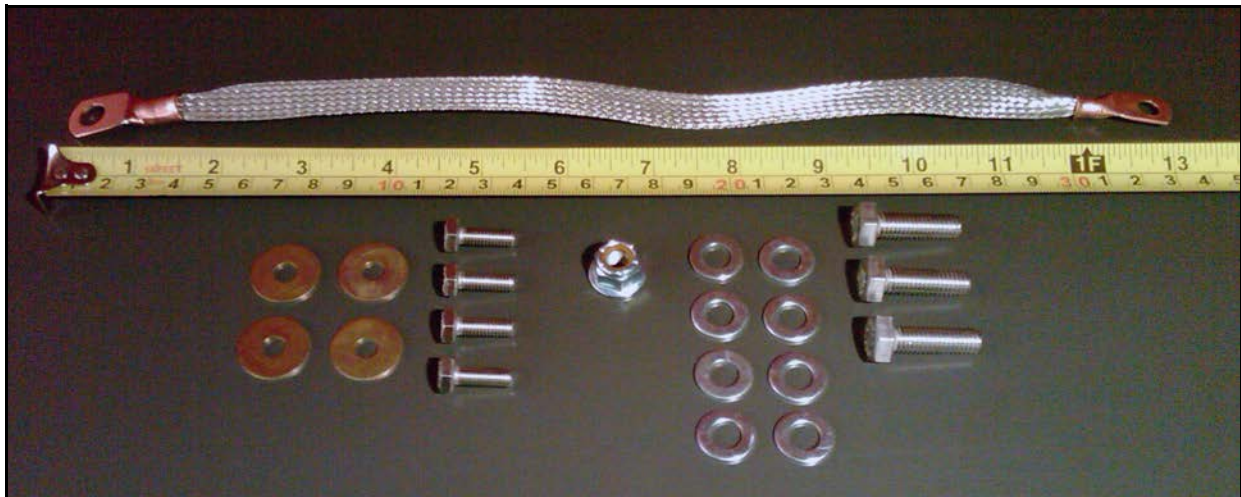
MODEL YEAR: 2012

TITLE: Ground Connection Rework

File Technical Support System (TSS) Claim

19a. Once finished with inspection and field-fix, file a case on Fisker TSS and a warranty claim on the GRID using the code "90-10-01-07 – Campaign 390120010 / Ground Connection Rework".

Necessary Hardware (Image)



NOTE: Last 5 digits of the VIN are required when ordering parts on the GRID.

**NUMBER: 390120010.01****MODEL: Karma****DATE: January 22, 2012****MODEL YEAR: 2012****TITLE: Ground Connection Rework****PARTS REQUIRED:**

PART NUMBER	DESCRIPTION	QUANTITY
C141900100200	BOLT-HEX SS M8 X 1.25 X 25.0	3
C141900200200	BOLT-HEX SS M6 X 1.0 X 16.0	4
C144211807200	NUT-HEX FL PTP M8x1.25 PC8	1
C148700107200	GROUND STRAP	1
C146000907200	WASHER-STAINLESS STEEL M8 X 17.0 X 1.6	8
C146000007200	WASHER-STEEL 6.0 X 20.0 X 1.5	4

SHOP SUPPLIES:

DESCRIPTION
N/A

SPECIAL TOOLS:

DESCRIPTION
N/A

LABOR CODES:

CODE	DESCRIPTION	TIME	DEFECT CODE
90-10-01-07	Campaign 390120010 / Repair	1.5	90-10-01-98

SUBLET:

CODE	DESCRIPTION	AMOUNT
N/A		

CAUSAL PART:

PART NUMBER	DESCRIPTION
C146000907200	(A4 M8/17mm) Washer

WARRANTY DISPOSITION:

Vehicles with a valid warranty

CONTACT:

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Website: www.fiskerautomotive.com

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