



# SAFETY RECALL

FISKER AUTOMOTIVE, INC.

**NUMBER: 520120016.01**

**DATE: August 24, 2012**

**MODEL: Karma**

**MODEL YEAR: 2012 – 2013**

**TITLE: Low Temperature Cooling Fan Voluntary Safety Recall**

**PRIORITY:**

**Vehicles in Operation**

**APPLICABILITY:**

**Karma**

**VEHICLES AFFECTED: (by model year)**

2012 – YH4K10BA0CA000001 to YH4K14AA0CA002680

2013 – YH4K14AA8DA000001 to YH4K14AA5DA000022 (Middle East Markets Only)

**MARKET REGION:**

**U.S., Canada, Europe, Middle East, and China**

**PURPOSE:**

A manufacturing defect in the low temperature cooling fan may result in the potential for the internal 3-phase wires to contact the motor housing metal case. This may lead to a resistive short which could cause a transistor to act as a heat generator. The heat generator affect can cause melting of the circuit board and wires within the fan motor housing. The melting of wire insulation can then result in a direct short which may ignite the fan housing and shroud and subsequently the surrounding components, possibly resulting in a fire.

The repair procedure will include the removal and elimination of the LH LT cooling fan motor assembly. A resistor cap will be installed to the wiring harness in place of the LH LT cooling fan motor assembly. The RH LT cooling fan motor will require inspection and replacement of any affected units found. An in-line 20 amp fuse will also be added to the RH LT cooling fan motor wiring harness for improved circuit protection.

**PROCESS OVERVIEW:**

1. Isolate 12 Volt Battery
2. Remove Left-Hand (LH) Low Temperature (LT) Cooling Fan and Install Resistor Cap
3. Inspect and/or Replace Right-Hand (RH) Low Temperature (LT) Cooling Fan and Install Fused Link
4. Attach Recall Campaign Label
5. Parts Disposition

**RETAILER INVENTORY NOTE**

Any LT cooling fan motor in retailer inventory without a yellow dot (Figure 0B) cannot be sold or installed.



Figure 0A.

Figure 0B.

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### 1. Isolate 12 Volt Battery

1.1. Power down the vehicle and open hood.

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

1.2. Locate connector C104 (located on the right-hand strut tower), release clip (red highlighted tab) and disconnect 12 volt negative battery cable connector (direction of blue arrow).

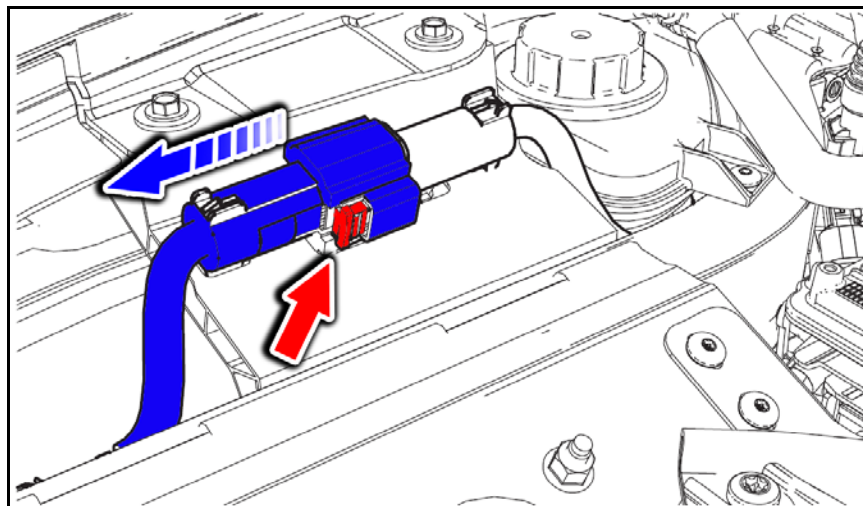


Figure 1A.

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## 2. Remove Left-Hand Low Temperature Cooling Fan and Install Resistor Cap

2.1. Use FRT No: 20200700 (of the right-hand low temperature cooling fan in the online service manual on Tech Info) for reference and instructions to remove the left-hand low temperature cooling fan.



## **WARNING!**

*Take care not to damage headlight washer assembly or its hose during this process.*

2.2. Install fan Resistor Cap (PN: C131190101300) onto low temperature cooling fan motor harness (D3505) connector and install plastic cable tie through tab in connector as shown in Figure 2A.

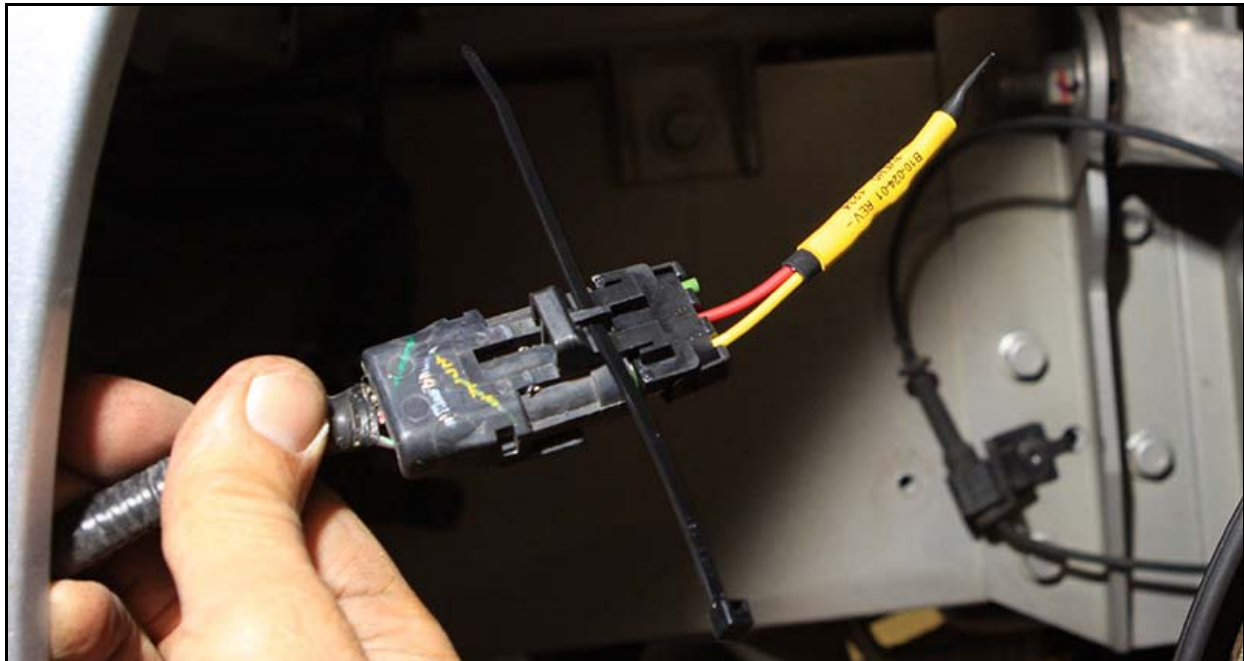


Figure 2A.

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2.3. Attach connector to inner body panel as shown in Figure 2B.

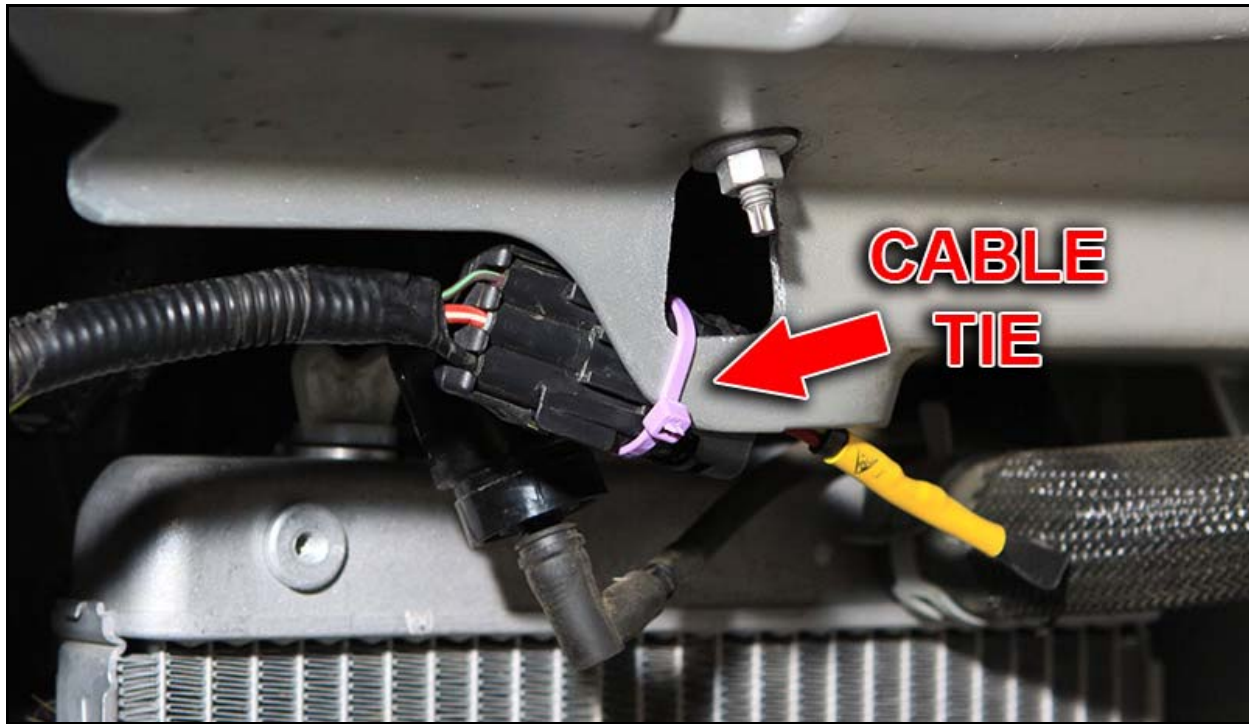


Figure 2B.

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2.4. The wire harness may loop around the left or right side of the low temperature radiator (depending on vehicle wire harness configuration). Figure 2C shows approved methods of routing and mounting fan motor wire harness with resistor cap attached. Wires originally routed on the right-hand side need to be rerouted around top of low temperature radiator in order to attach cable tie to body tab as shown in Figure 2C.

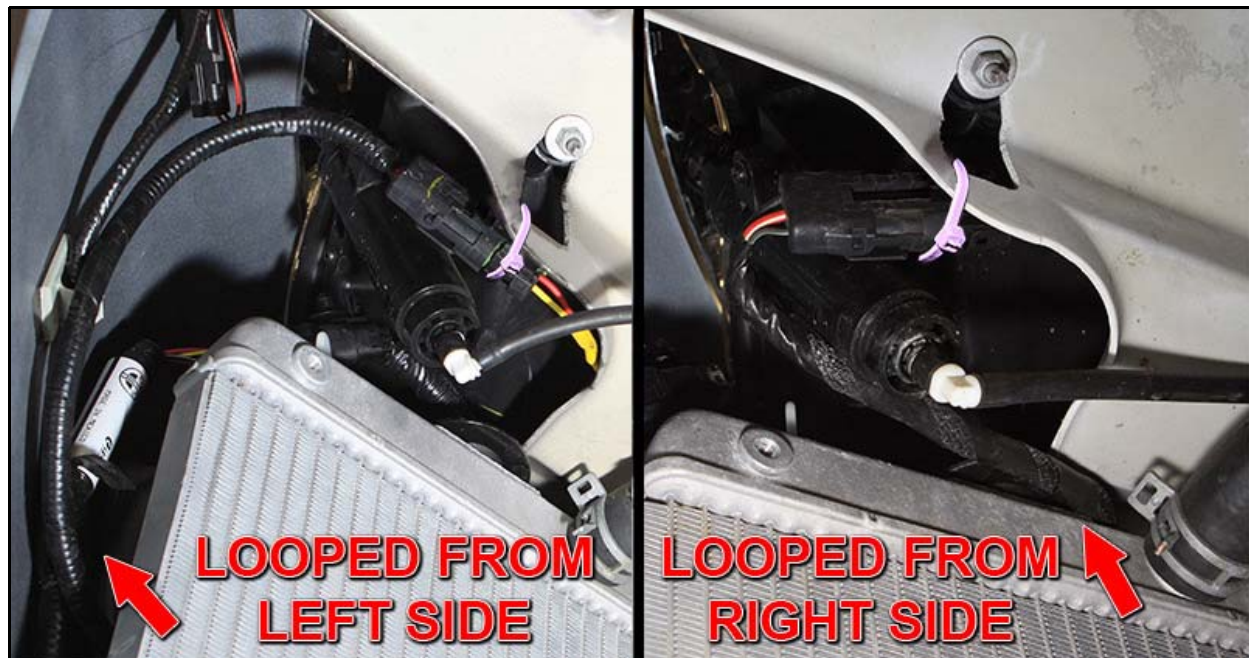


Figure 2C.



### **WARNING!**

***Do not attach cable tie to headlight washer assembly or its hose.***

2.5. Inspect and clear radiator of debris as necessary.

2.6. Reinstall wheel arch liner and wheel. – Torque lug nuts to 220 Nm.

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### 3. Inspect and/or Replace Right-Hand Low Temperature Cooling Fan and Install Fused Link

3.1. Refer to FRT No: 78100100 in the service manual for instructions for reference on removing the right-hand front wheel arch liner.



## **WARNING!**

*Take care not to damage headlight washer assembly or its hose during this process.*

3.2. Disconnect right-hand low temperature cooling fan motor wiring harness.

3.3. Inspect right-hand low temperature cooling fan motor for yellow dot.

– If yellow dot exists on right-hand low temperature cooling fan motor (shown in Figure 0B), leave fan in place and continue on to step 3.6.

– If yellow dot does not exist on right-hand low temperature cooling fan motor, continue to step 3.4 for replacing fan motor.

3.4. Remove fasteners (x4) securing right-hand low temperature cooling fan assembly to the radiator fan shroud (see Figure 3A). – Torque 8 Nm.

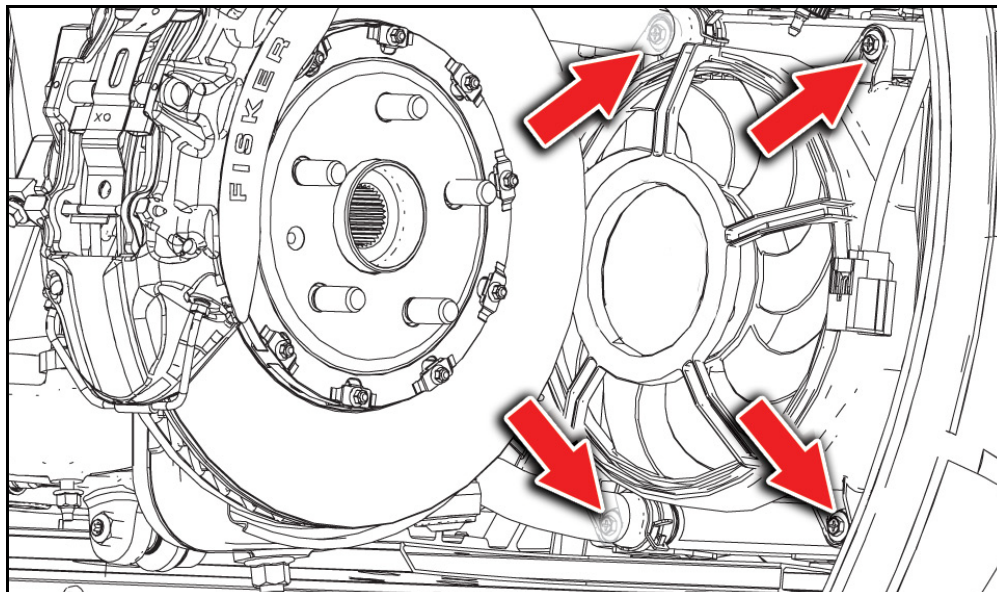


Figure 3A.

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- 3.5. Install new right-hand low temperature cooling fan motor (PN: C131111111002 with yellow dot) on right-hand low temperature radiator. – Torque 8 Nm.
- 3.6. Inspect and clear radiator of debris as necessary.
- 3.7. Connect in-line Fused Link (PN: C131190101100) between the right-hand low temperature cooling fan wire harness and fan connector (D3504).
- 3.8. Attach cable tie to inner body panel as shown in Figure 3B.



Figure 3B.



### **WARNING!**

*Do not attach cable tie to headlight washer assembly or its hose.*

- 3.9. Install all parts in reverse order of removal.
- 3.10. Reconnect the 12 volt battery via connector C104.
- 3.11. Check for fault codes with Fisker Workshop Tester. If any fault codes are present, contact TSS.

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#### 4. Attach Recall Campaign Label

4.1. Once recall is complete, please fill in Campaign Label C149950001000 with campaign no. "520120016", your retailer code, and repair date. Affix to top surface of the right front shock tower (see red arrow in Figure 4A). 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: Do not cover existing Recall Campaign Labels.**



Figure 4A.

<p><b>FISKER AUTOMOTIVE, INC.</b></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>C149950001000</p>
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Figure 4B.

#### 5. Parts Disposition

5.1. As per Fisker warranty policies and procedures, all parts removed are to be tagged and retained for 90 days, using Warranty Parts Return tag (PN: C1800TAG0001).

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**PARTS REQUIRED:**

PART NUMBER	DESCRIPTION	QUANTITY
C131190101300	Resistor Cap / Low Temp Fan	1
C131190101100	Fused Link / Low Temp Fan	1
C131111111002	LT Rad Fan / Shroud (w/yellow dot)	1 (if required)
C149950001000	Campaign Label	1
C148110300100	Cable Tie 3.5 mm x 150 mm	2
C148110400100	Cable Tie (with clip)	1

**SHOP SUPPLIES:**

DESCRIPTION
N/A

**SUBLET:**

CODE	DESCRIPTION	AMOUNT
HDL	Handling	\$50.00

**LABOR CODES:**

CODE	DESCRIPTION	TIME	DEFECT CODE
20-20-06-08	Recall 520120016 / Repair	1.0	20-20-06-61

**CAUSAL PART:**

PART NUMBER	DESCRIPTION
C131111111001	LT Rad Fan / Shroud

**WARRANTY DISPOSITION:**

Vehicles with a valid warranty

**CONTACT:**

Fisker Automotive

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Anaheim CA 92807

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Website: [www.fiskerautomotive.com](http://www.fiskerautomotive.com)

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