

**NUMBER: 230120052.01****MODEL: Karma****TITLE: PTC Heater Thermostat****PRIORITY:****If vehicle exhibits the issue****APPLICABILITY:****All variants****MARKET REGION:****U.S., Canada, Europe, Middle East, and China****DATE: December 19, 2012****MODEL YEAR: 2012 - 2013****PURPOSE:**

In colder climates, customers may complain of a flashing or solid Check Engine Light (CEL) illuminated accompanied with a rough idle after the Engine/Generator has turned on after an extended drive in Stealth mode with the heater on. The customer may also complain of degraded heater performance while in Stealth mode.

**CAUSE:**

This condition may be caused by the PTC Heater coolant loop causing the 40° C thermostatic check valve in the system opening unnecessarily from the warmer coolant from the PTC heater. This causes artificially high ETC sensor readings leading to lean air/fuel mixtures and possible misfires/engine shutdown.

**REPAIR/RECOMMENDATION:**

An updated thermostatic check valve has been released that raises the thermostat's opening temperature to 65° C which will resolve the condition.



Figure 0A. Updated PTC Heater Thermostat "T"

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# SERVICE BULLETIN

FISKER AUTOMOTIVE, INC.

NUMBER: 230120052.01

MODEL: Karma

TITLE: PTC Heater Thermostat

DATE: December 19, 2012

MODEL YEAR: 2012 - 2013

## 1. Replace PTC Heater Thermostat

1.1. Remove RH cross brace. Refer to [FRT No.60500100](#) in the service manual for removal instructions.

**NOTE:** RH Cross Brace R&R Procedure is similar to LH Cross Brace R&R Procedure.



## **WARNING!**

**To avoid serious injury, ensure the coolant returns to a safe temperature before commencing work.**

1.2. Locate the thermostatic check valve "T" located in front of the passenger side bulkhead (near turbocharger).

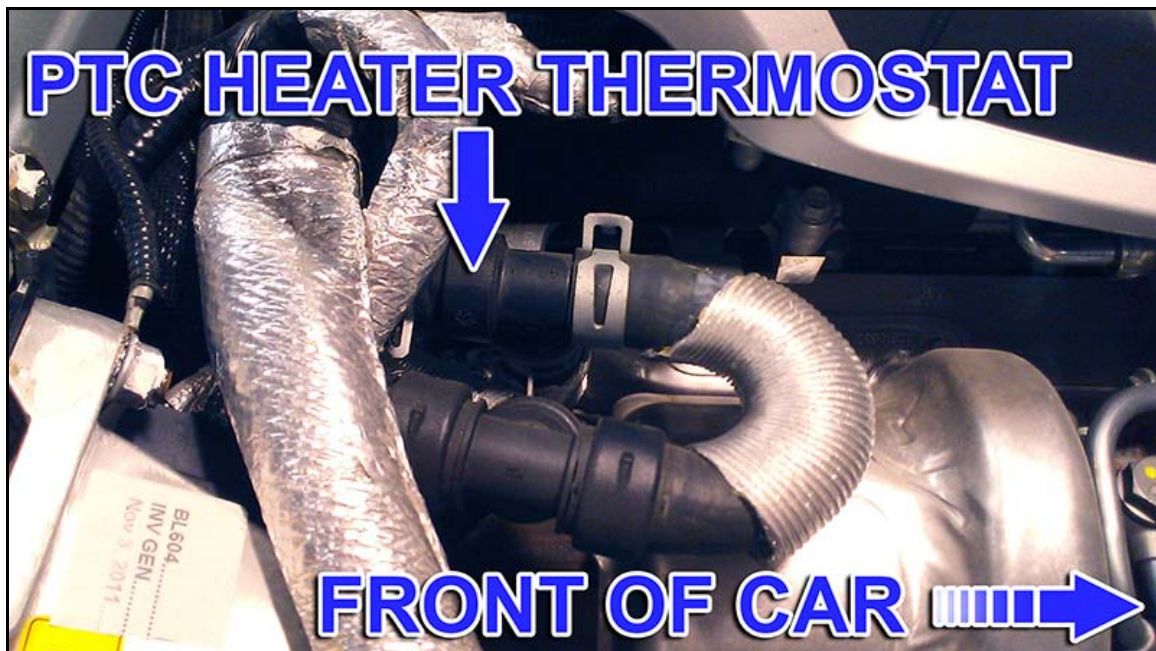


Figure 1A. Shown with RH cross brace removed.

1.3. Clamp off each hose going into the "T" using suitable clamping devices to minimize coolant loss.

1.4. Take note of the tabs on each spring loaded hose clamp's orientation. Remove and discard spring loaded hose clamps followed by removing the 40° C thermostat "T" check valve.

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1.5. Install replacement 65° C thermostat "T" (PN:C131133101001) using new hose clamps.

**NOTE:** Clock hose clamp tabs so they don't chafe or contact other hoses or wiring.

**NOTE:** Reinstall all hose coverings to protect against heat from the turbo and chafing.



Figure 1B.

1.6. Reinstall RH cross brace (installation is reverse of removal).

1.7. Refill and bleed the High Temperature - Engine Cooling System.

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**TITLE: PTC Heater Thermostat**

**PARTS REQUIRED:**

| PART NUMBER   | DESCRIPTION              | QUANTITY |
|---------------|--------------------------|----------|
| C131133101001 | Thermostatic Valve - PTC | 1        |

**SHOP SUPPLIES:**

| DESCRIPTION |
|-------------|
| N/A         |

**SPECIAL TOOLS:**

| DESCRIPTION |
|-------------|
| N/A         |

**LABOR CODES:**

| CODE        | DESCRIPTION                 | TIME | DEFECT CODE |
|-------------|-----------------------------|------|-------------|
| 30-50-17-06 | Bulletin 230120052 / Repair | 1.1  | 30-50-17-17 |

**SUBLET:**

| CODE | DESCRIPTION | AMOUNT |
|------|-------------|--------|
| N/A  |             |        |

**CAUSAL PART:**

| PART NUMBER   | DESCRIPTION              |
|---------------|--------------------------|
| C131133101000 | Thermostatic Valve - PTC |

**WARRANTY DISPOSITION:**

Vehicles with a valid warranty

**CONTACT:**

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