

**Block Heater Cable with Thermostat,  
Replacement**

VN

**SP 373-016, Block Heater Cable with Thermostat,  
Replacement**

February 2012

On Volvo VN vehicles with 11L, 13L, and ISX engines built between July 2007 and December 2011, block heater cables with thermostat controls have been found to be non-functioning. The thermostat was wired parallel to the heating element. This did not allow for the heater to be turned on or off based on engine temperature. The new block heater cable with thermostat is wired in series, correcting the functionality. Follow the procedure below to correct affected vehicles.

**Required Parts**

Part Number Old Harness	Part Number New Harness	Description
21085490	21876118	W cable Block heater, thermostat and fuel heater
21694003	21875096	Y cable Block heater and thermostat only

- 980464 — Cable ties (19 required)

**Note:** The engine block heater connection and thermostat connection branches are labeled.

**Procedure**

You must read and understand the precautions and guidelines in Service Information, Function Group 3, "Electrical Safety Practices" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

- 1 Remove the left side fairing, if applicable.
- 2 Remove all cables from ground (negative) battery terminals to prevent personal injury from electrical shock and prevent damage to electrical components.
 

**Note:** Verify which cable is required. Use 21876118 when the 120v fuel heater is installed. Use 21875096 without fuel heater.
- 3 Disconnect the 120v cable from the cab receptacle marked " Engine Heater ", by depressing the detent pin inwards and pulling out the cable.
- 4 Disconnect the indicator lamp connectors located at the cab receptacle.
- 5 Cut and remove all cable ties securing the harness to the vehicle and engine.
- 6 Disconnect the cable harness from the engine block heater, 120v thermostat and (if equipped) fuel filter heater element.
- 7 Remove the cable harness from the vehicle.

- 8 Install the replacement cable harness into position on the vehicle and cable tie loosely.
- 9 Connect the cable harness to the engine block heater, 120v thermostat and (if equipped) fuel filter heater element.
- 10 Connect the indicator lamp connectors.
- 11 Connect the 120v cable to the cab receptacle marked " Engine Heater ". Secure all cable ties.
- 12 Install all previously removed cables to the ground (negative) battery terminals.
- 13 Install the left side fairing, if applicable.

**Note:** Before discarding removed parts; disable by cutting cable in several places, render unusable.

**Reimbursement**

<b>This repair is covered by an authorized Service Program. Reimbursement is obtained via the normal claim handling process.</b>	
<b>Claim Type (used only when uploading from the Dealer Bus. Sys.)</b>	B
<b>Recall Status</b>	
Vehicle inspected, repair not required	1- Inspected OK
Vehicle repaired per instruction	2- Modified per instruction
<b>Labor Code</b>	
Primary Labor Code	37311-0-02 0.7 hrs.
Time to take charge and determine campaign status	17003-0-01 0.3 hrs.
<b>Causal Part</b>	21694003
<b>Parts Disposition</b>	Scrap Locally
<b>Authorization Number</b>	SP373016
<b>Expiration Date</b>	2/13/2013

**Note:** Take Charge Time is not included in the Labor Code for this operation. Take charge may be eligible but can only be used once per repair visit. If vehicle is having other warranty repairs performed, take charge should be charged to the warranty repair, otherwise take charge can be charged to this service program.