



# Technical Journal

TITLE:

**Front seat heater, function control**

<b>REF NO:</b> TJ 33617.1.0	<b>ISSUING DEPARTMENT:</b> Technical Service	<b>CAR MARKET:</b> United States and Canada	
<b>PARTNER:</b> 3 US 7510 Volvo Car USA		<b>ISSUE DATE:</b> 2018-07-03	<b>STATUS DATE:</b> 2018-07-11
<b>FUNC GROUP:</b> 8527	<b>FUNC DESC:</b> Electrical heating	Page 1 of 8	

“Right first time in Time”

## Attachment

File Name	File Size
TJ 33617.pdf	2.4450 MB

## Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
234							2017-9999		0000350-0999999	201617-999952
235							2017-9999		0000160-0999999	201624-999952
236							2017-9999		0000098-0999999	201646-999952
238							2018-9999		0000161-0999999	201646-999952
246							2018-9999		0000389-0999999	201717-999952
256							2016-9999		0000561-0999999	201505-999952

## CSC Customer Symptom Codes

Code	Description
UW	Front seat/Seat heating does not work or too hot

## VST Operation Number

VST Operation Number	Description
98714-2	Heater pad front seat fault trace acc. to TJ33617



**DTC** Diagnostic Trouble Codes

**Text**

**DESCRIPTION:**

If the front seat heaters do not work, check the heating grid wiring by measuring, follow instruction under Service.

**SERVICE:**

Measure according to attached instruction.

**VEHICLE REPORT:**

Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect. Use concern area "Vehicle Report" and sub concern area "Support not needed", use function group 8527.

**To view TJ attachment continue to next page. This TJ has one attachment.**



## Volvo Car Customer Service

TJ Instruction VCC-512761-1

<b>Title</b>	Front seat heater	<b>Page</b>	1 ( 6 )
<b>Action</b>	Product fix	<b>Operation number:</b>	98714-2

<b>Issue</b>	<b>Date</b>	<b>Reason</b>
1	2018-06	First issue

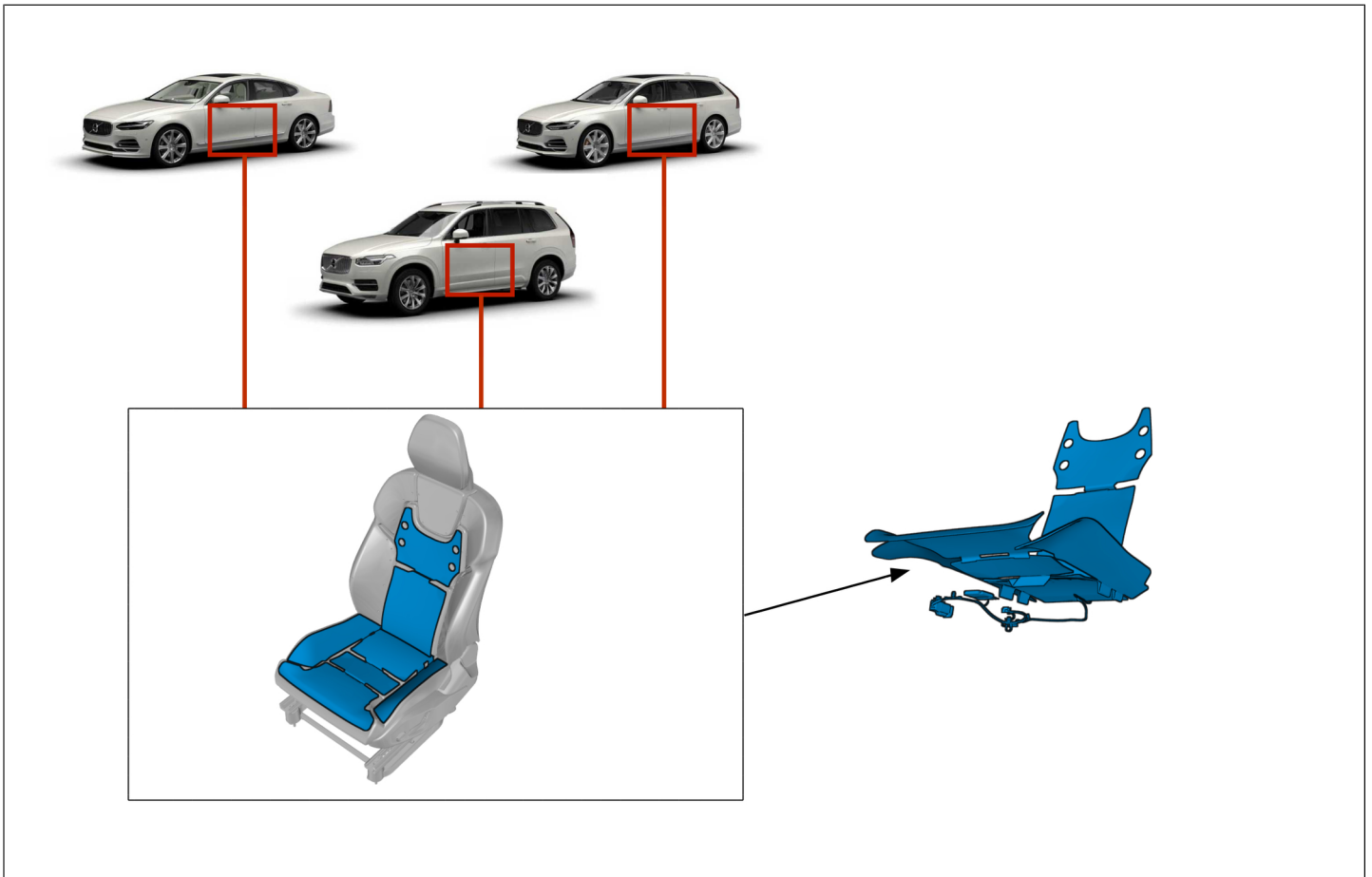
### Affected vehicles

<b>Model year</b>	<b>Model</b>
2017	S90 (17-)
2018, 2019	S90L
2017, 2018, 2019	V90 (17-)
2017, 2018, 2019	V90 Cross Country
2018, 2019	XC60 (18-)
2016, 2017, 2018, 2019	XC90 (16-)

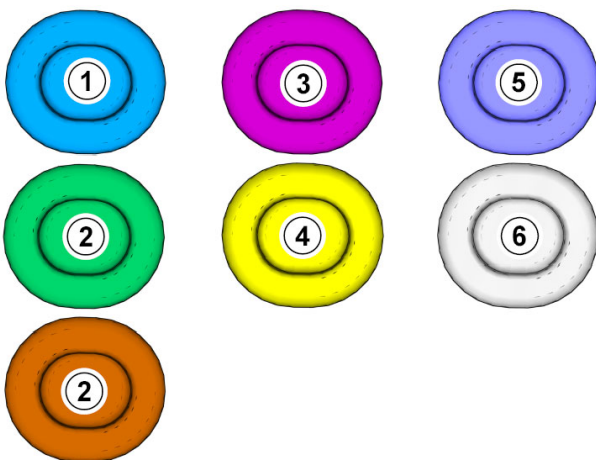
### Special tools

<b>Description</b>	<b>Part No.</b>
MULTIMETER (DIGITAL)	951 0060

**Removal**

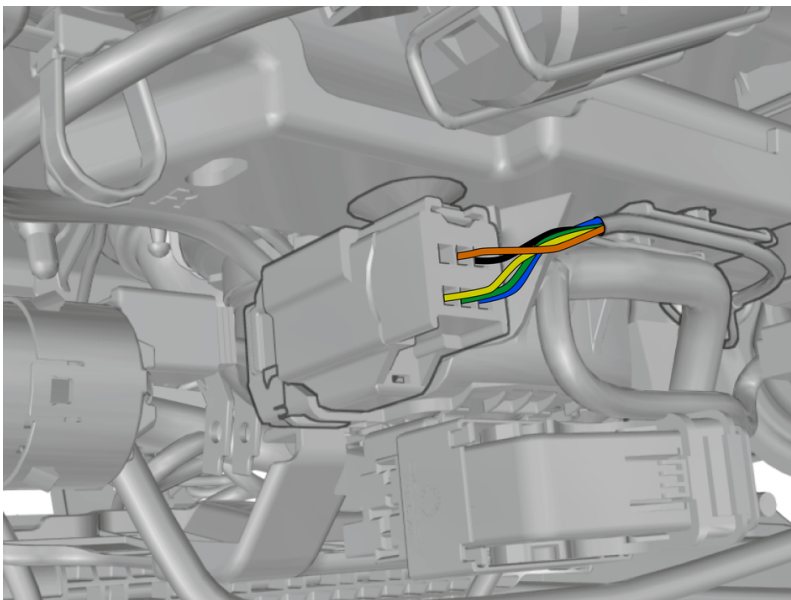
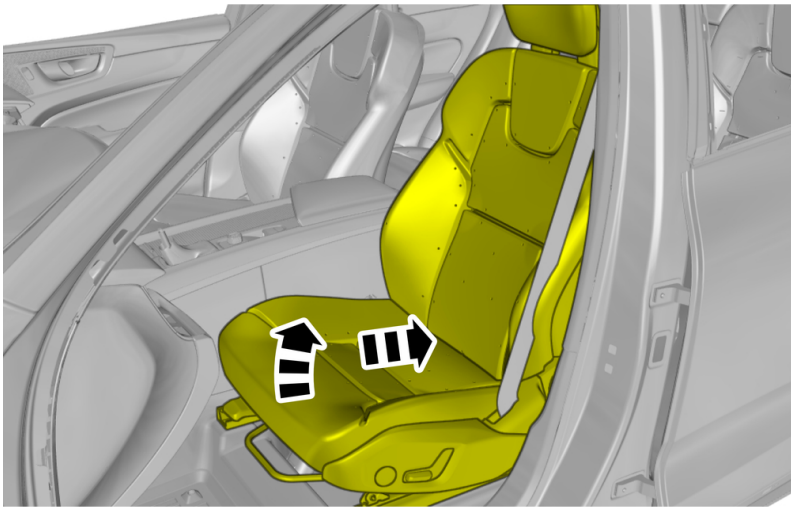


**Color symbols**

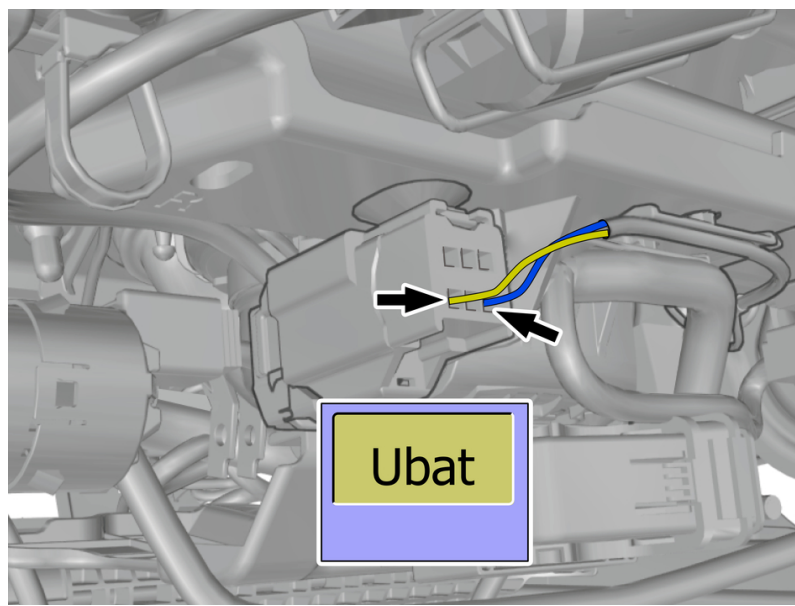


**Note! This colour chart displays (in colour print and electronic version) the importance of the different colours used in the images of the method steps.**

- 1 . Used for focused component, the component with which you will do something.
- 2 . Used as extra colors when you need to show or differentiate additional parts.
- 3 . Used for attachments that are to be removed/installed. May be screws, clips, connectors, etc.
- 4 . Used when the component is not fully removed from the vehicle but only hung to the side.
- 5 . Used for standard tools and special tools.
- 6 . Used as background color for vehicle components.



**Note! Orientation view**

**Check**

Check the voltage.

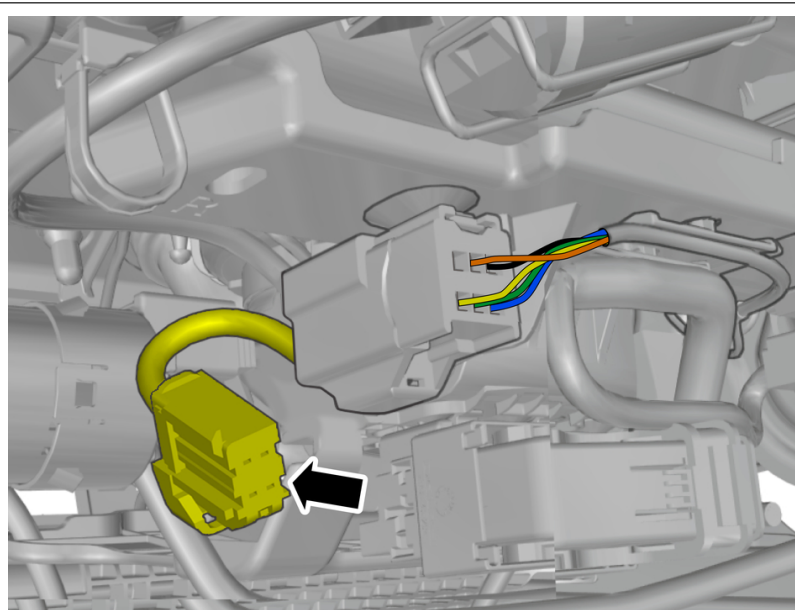
Special Tool: T9510060, MULTIMETER (DIGITAL)

Check the value.

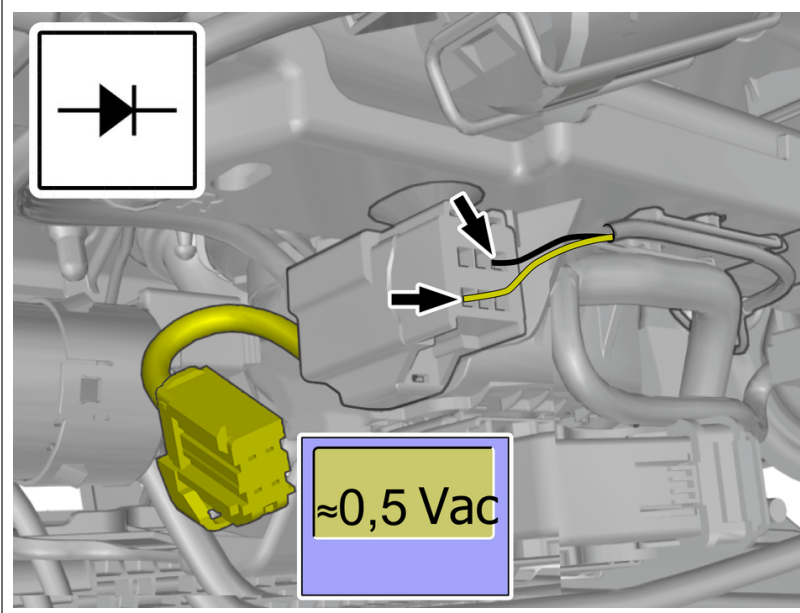
YE = Yellow

BU = Blue

If the measurement results give normal values, continue to the section Checks, below.

**Check**

Disconnect the connector.



Check the control unit.

Special Tool: T9510060, MULTIMETER (DIGITAL)

Set multimeter for diode measurement.  
Connect red probe to the terminals black cable.  
Connect black probe to the terminals yellow cable.

Check the value.

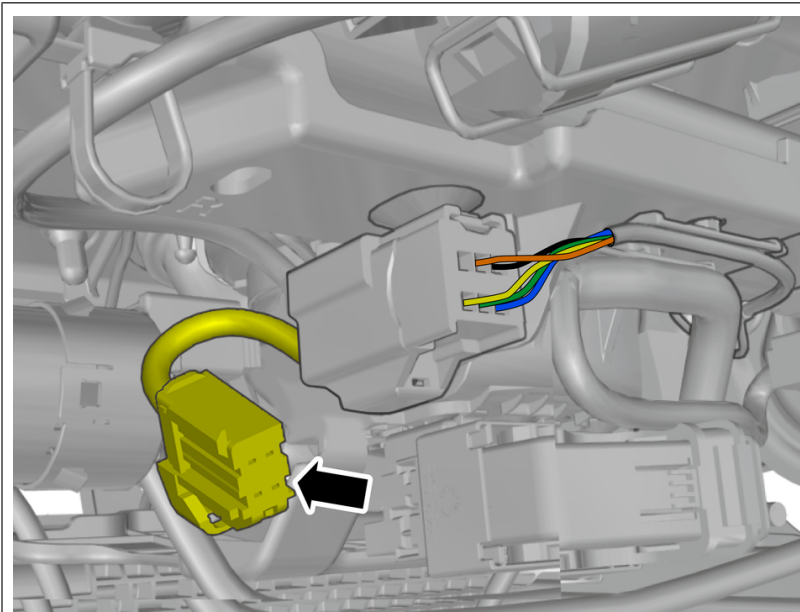
YE = Yellow

BK = Black

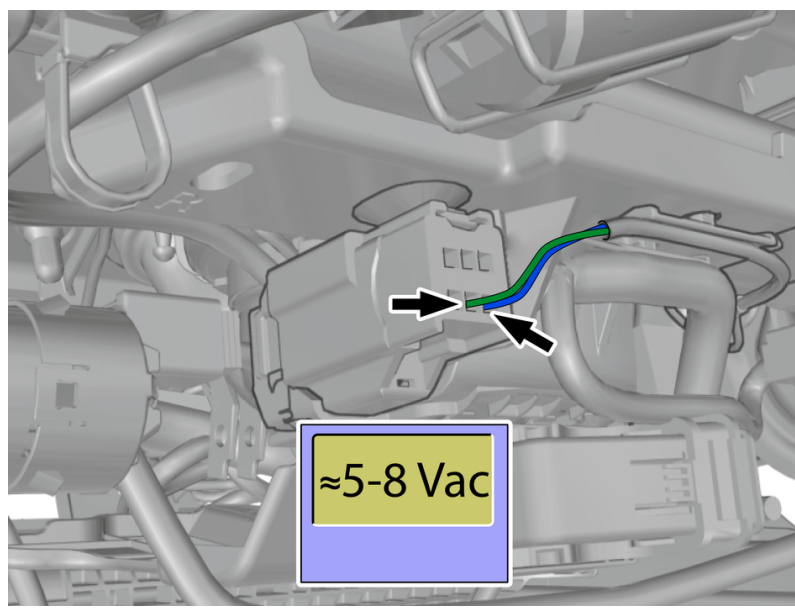
If the measurement results give normal values, continue to the section Checks, below.

If the result of the checking procedure is not OK, the component must be replaced with a new component.

### Check



Connect the connector.



Check the LIN communication.  
Start the engine.

Special Tool: T9510060, MULTIMETER (DIGITAL)

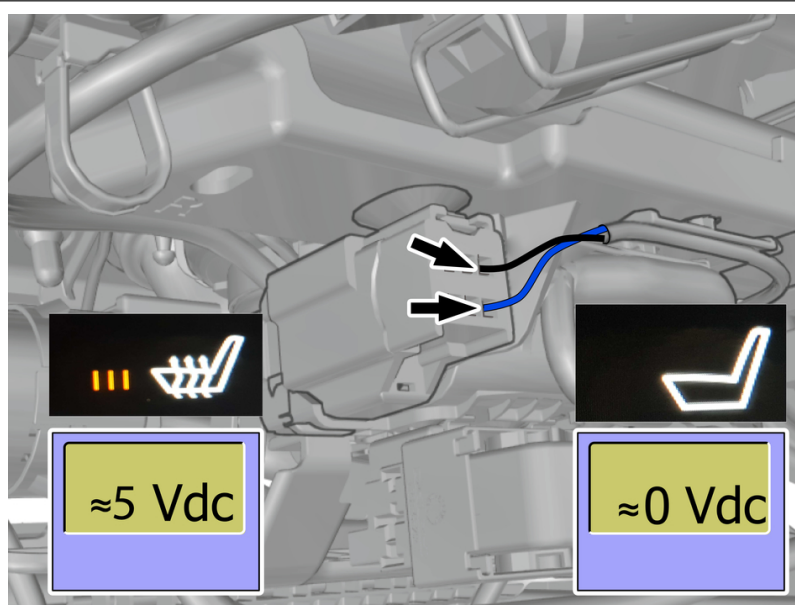
Set multimeter for VAC measurement.  
Check the value.

GN = Green

BU = Blue

If the measurement results give normal values,  
continue to the section Checks, below.

### Check



Check the heating coil.  
Start the engine.

Special Tool: T9510060, MULTIMETER (DIGITAL)

Set multimeter for VDC measurement.  
Check the value.

Correct heaters: The voltage shall normally be 5 V (DC) when the heating is active and 0 V (DC) when the heating is off.

Incorrect value of heating element backrest cushion: Always 7V

Incorrect value of heating element cushion: Always 0 V (DC).

BU = Blue

BK = Black

If the result of the checking procedure is not OK, the component must be replaced with a new component.

### Installation

To install, reverse the removal procedure.