

Diversified Environmental  
Catalysts



## Tech Note

The following Volvo TSB involves 1999-2002 S70, C70 and V70 Turbocharged models.

It directly relates to an update to the oxygen sensor wiring harness.

Volvo has acknowledged that even in the absence of the mentioned codes, the new wiring harness adaptor should be installed for “the remaining sensor”, see the last line of the first paragraph.

The danger here is to the tiny, almost invisible vent hole in the O2 sensor, where the wiring passes into the housing of the sensor. This vent hole is where the outside air can enter the center of the sensor so the difference in O2 levels in the atmosphere and in the exhaust stream can be used by the sensor. It's this very difference that allows electricity to be generated, which is the primary function of an oxygen sensor.

S70/70 -2000/C70

1999-2002

Section:

2

Group:

25

No.:

0033

Year:

02

Month:

09

Vehicles involved:

B52X4 Turbo

Heated oxygen sensor (HO2S), replacing

#### Background

To prevent contamination from affecting the reference air for the heated oxygen sensors (HO2S) new routing has been developed for the sensor wiring. The following diagnostic trouble codes (DTCS) could be stored in the engine control module (ECM) due to harness contamination: 280A, 260A, 261A, 262A, 2A1A. Should no faults be detected for these DTCs after fault tracing according to VADIS, replace the effected heated oxygen sensors (HO2S) and install adaptor wiring harness The new adaptor wiring harness must also be installed for the remaining sensor.

<b>Model designation</b>	<b>Factory</b>	<b>Chassis number</b>
C 70 Coupé	J	008500-032619
C 70 Convertible	J	011000-031945
S 70	1+2	565000-673878
V 70 -2000	1+2	540000-739765

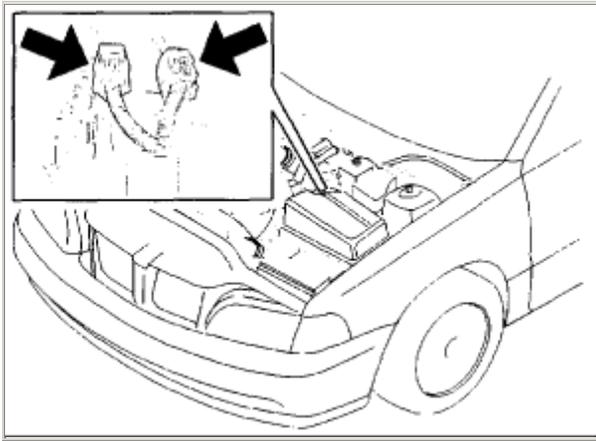
#### Affected cars

<b>Description</b>	<b>Quantity</b>	<b>P/N</b>
Adapter kit (rear heated oxygen sensor (HO2S) and 2 adapter cables)	1	30650206
Front heated oxygen sensor (HO2S)	1	See the VADIS replacement parts catalogue for the relevant chassis number.

#### Material

Catalytic converters and emissions equipment

Heated oxygen sensor (HO2S), replacing



The connectors for the heated oxygen sensors (HO2S) are located 1 on the transmission.

Preparations

2

Switch off the ignition.

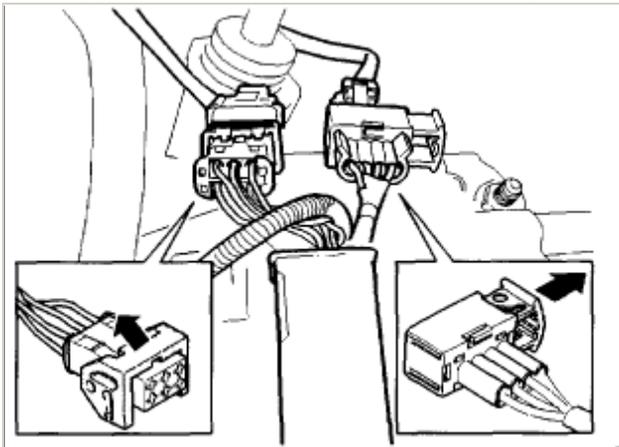
Remove the air cleaner (ACL) housing

Detach the inlet hose between the air cleaner (ACL) and the turbocharger (TC) from the turbocharger (TC).

Open the catches and disconnect both front and rear connectors for the heated oxygen sensors (HO2S)

Heated oxygen sensors (HO2S), removing

3



Replacing the front and rear heated oxygen sensors (HO2S), see VADIS:

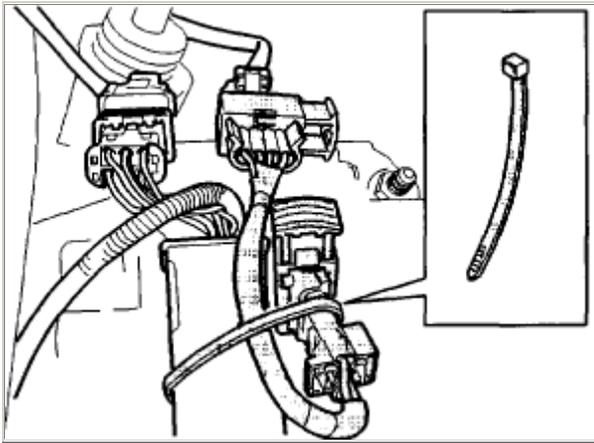
Preparation and installation, Function group 25 Replacing components, Heated oxygen sensors (HO2S) replacing.

Installing the front sensor adapter wiring

4

Install:

- the adapter wiring between the existing 4-pin connectors

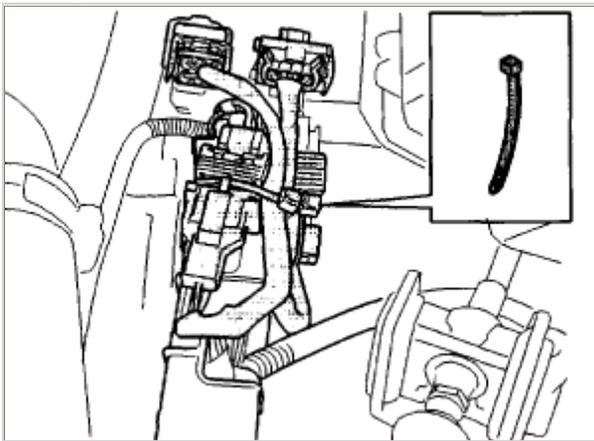


- a tie strap as illustrated.

**Note!** Ensure that the ends of the adapter wiring protective sheath point downwards so that water does not gather in the protective sheath.

Installing the rear sensor adaptor wiring

5



Install the adapter wiring between the existing 6-pin connector.

**Note!** Ensure that the ends of the adapter wiring protective sheath point downwards so that water does not gather in the protective sheath.

Install:

- the inlet hose between the air cleaner (ACL) and turbocharger (TC) on the turbocharger (TC)
- the air cleaner (ACL) housing.

Operation No.	Labor description	Time allowance
25934-2	Heated oxygen sensor (HO2S) adjusting/replacing	0.7 hr

**WARRANTY STATEMENT:** Claims may be submitted under the New Car Warranty when there is a documented customer complaint, using claim type 01.