VOLVO CAR SERVICE AND PARTS BUSINESS



Technical Journal

TITLE: Oil in cooling system. New cleaning method developed

REF NO:	ISSUING DEPARTMENT:		ARKET:
TJ 21965.7.0	Technical Service		and Canada
3 US 7	PARTNER:	ISSUE DATE:	STATUS DATE:
	7510 Volvo Car USA	2019-10-02	2019-10-15
FUNC GROUP: 2600			1 of 8

"Right first time in Time"

Attachment

File Name	File Size
T9318EN01.doc	0.1694 MB

Vehicle Type

Туре	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
184							1999-2006	21	0000580-0446916	199815-200606
275							2003-2014	21	0000690-0707110	200232-201428
285							2000-2007	21	0000257-0673859	199943-200719
295							2001-2007	21	0000160-0288671	200005-200719
384							2001-2009	22	0000148-0741211	200032-200911
533							2007-2013	22	0000261-0312066	200637-201251
542							2006-2013	38	0000590-0144301	200549-201325
544							2004-2012	22	0000295-0580760	200339-201219
545							2004-2012	22	0000133-0700628	200347-201219

CSC Customer Symptom Codes

Code	Description
J9	Lubrication and oil system/Oil leakage

VST Operation Number

VST Operation Number	Description			
99703-2				
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Technical Journal 21965.7.0



DTC Diagnostic Trouble Codes

Rows beginning with * are modified Note! If using a printed copy of this Technical Journal, first check for the latest online version.

Text

DESCRIPTION:

*Vehicle types changed.

Oil can be found in cooling system for several reasons, e.g.

- defect engine oil cooler
- defect radiator (mixing coolant ATF fluid)
- defect cylinder head gasket

SERVICE:

New cleaning method developed, using a "flush gun". See attachment for instruction how to use it.

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 2600.

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

		Volvo Car Customer Service
		TJ Instruction
		No. T9318
		Date
		Nov - 09 Issue 01
Title	Cooling system, flushing	
Model	All (see exception in the meth	od)
Model Year	All	
Competence requirement	Volvo Level 1 Technician	

Material	Quantity	Part No.
Radiator hoses		See spare parts catalogue for relevant Model and engine
Expansion tank and cover		See spare parts catalogue for relevant Model and engine
Thermostat/Thermostat kit		See spare parts catalogue for relevant Model and engine
Coolant glycol Volume see relevant engine		

Special tools	Quantity	Part No.
Cleaning gun	1	9814122
Radiator hose	1	30776224
Radiator hose	1	30761633

Note! Some variation in the illustrations may occur, but the essential information is always correct.



1.



General

air.

replaced.

A new tool 9814122 for flushing the cooling system has been introduced. The tool uses water and compressed

After flushing, the thermostat, all rubber radiator hoses and the expansion tank with cover must be

Note! The thermostat must be removed from the thermostat housing and the thermostat housing reinstalled

These instructions do not apply to

D5244T10/14/16/19 because the thermostat cannot be removed from

for flushing to be effective.

D4164Tx, D4204Tx and

the thermostat housing.

IMG-333178

3.



The hose that is connected to the thermostat housing during flushing must reach outside the engine compartment.

Tip! Use radiator hoses 30776224 and 30761633 as tools. These are suitable for the different diameters on the outgoing connector on the thermostat housings.

IMG-333508

2.



4.

Thermostat removal

Drain the cooling system.

Remove the thermostat, see:

Removal, replacement and installation 2 Engine with mountings and equipment 26 Cooling system Thermostat/temperature sensor coolant, replacement

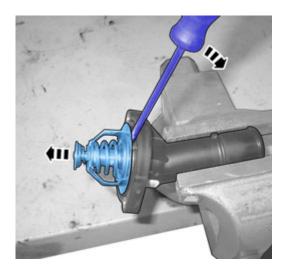
5.

On most engines the thermostat housing with thermostat is only available as a spare part. In these cases, the thermostat must be removed from the thermostat housing

The following steps show how to do this.

6. Removal of the thermostat from the thermostat housing

B4184Sx, B4204Sx



IMG-333181

7.

8.

B6324S, B6304T2, Step 1



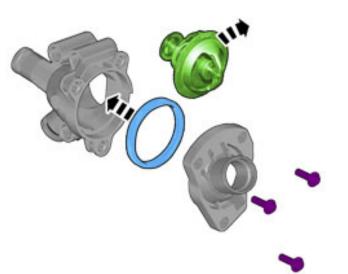
IMG-333180



B6324S, B6304T2, Step 2

IMG-333533

VOLVO	TJ Instruction	T9318	Page 5 of 6



S80 07-/V70 08-/ C30/S40/V50

B5254Sx/Tx

Remove the thermostat.

Remove the rubber gasket from the thermostat.

Install the rubber gasket in the thermostat housing.

Assemble the thermostat housing.

IMG-333314

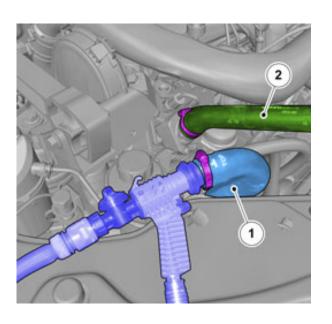
10.

Other engines not shown in any steps: See relevant model and engine in VIDA.

Reinstall the thermostat housing on the engine.

9.

11.



Flushing cooling system

Connect the cleaning gun to hose (1). Connect the water hose and compressed air to the cleaning gun.

Connect a long hose (2) to the thermostat housing, which extends outside the engine compartment.

Suggestion: radiator hose 30776224 and 30761633.

Use hot water.

Note! When flushing, the first 20 litres must be flushed out into a container because the fluid contains coolant that must not be flushed out into the drainage network. Flushing can then occur over a flush plate with oil separation.

Flush the cooling system for at least 10 minutes if hot water is used.

If hot water is not available, extend the time to 20 minutes.

IMG-333208

12.

After flushing, the thermostat, all rubber radiator hoses and the expansion tank with cover must be replaced.

For thermostat replacement, see:

Removal, replacement and installation 2 Engine with mountings and equipment 26 Cooling system Thermostat/temperature sensor coolant, replacement

To replace radiator hoses and expansion tank, see the spare parts catalogue for the relevant model and engine.

There is no method to be followed for the replacement of radiator hoses and expansion tank.