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This document
contains 2 items
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Volvo Car Corporation
TIE - Technical Information Exchange

TIE - Technical Journal

Title Transmission Control Module (TCM) Software (SW)

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Partner 3 US 7510 Volvo Cars North America

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Func Group 4378 **Func Desc** software

Reference VIDA, VSTG, RTJs 17906, 20857, 23193

Attachment

File Name	File Size
Attachment TJ 16761.pdf	0.0313 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
124							2011 -2011		-	0 -0
134							2011 -2011		-	0 -0
136							2011 -2011		-	0 -0
156							2011 -2011		-	0 -0
184							1999 -2006		-	0 -0
275							2003 -2010		-	0 -0
285							2001 -2007		-	0 -0
295							2001 -2007		-	0 -0
384							2001 -2008		-	0 -0
544							2004 -2006		-	0 -0
545							2005 -2006		-	0 -0
872							1999 -2002		-	0 -0
873							1999 -2002		-	0 -0
874							1999 -2000		-	0 -0
875							1999 -2000		-	0 -0
876							1999 -2000		-	0 -0

CSC

Code	Description
EX	Warning lights and chimes/Automatic transmission indication/no indication
7Y	Automatic transmission/Gear changes take too long to complete/Unsure when/at all times
7Z	Automatic transmission/Shifts occur too early, too late, too often/Unsure when/at all times
MA	Automatic transmission/Shifts rough or jerky/Unsure when/at all times
MD	Automatic transmission/No automatic gearshift
ME	Automatic transmission/Shifts occur too early, too late, too often/When upshifting
MH	Automatic transmission/Kickdown does not work
MO	Automatic transmission/Shifts occur too early, too late, too often/When downshifting

MV	Automatic transmission/Gear changes take too long to complete/When downshifting
NB	Automatic transmission/Gear changes take too long to complete/When upshifting
ND	Automatic transmission/Shifts rough or jerky/When downshifting
NF	Automatic transmission/Shifts rough or jerky/When engaging gear at standstill
NO	Automatic transmission/Shifts occur too early, too late, too often/From Park to Reverse or Drive
NS	Automatic transmission/Shifts rough or jerky/When upshifting
OC	Manual transmission/Gear pops out

DTC

Control Module	Code	Fault Type
TCM	0028	Permanent
TCM	002F	Permanent
TCM	0045	Permanent
TCM	0053	Permanent
TCM	008D	Permanent
TCM	0099	Permanent
TCM	002E	Permanent
TCM	002E	Intermittent
ECM	530D	Permanent
TCM	p074400	Permanent
TCM	p073000	Permanent
TCM	P074400	Intermittent
TCM	P073000	Intermittent
TCM	0099	Intermittent
TCM	008D	Intermittent
TCM	0053	Intermittent
TCM	0045	Intermittent
TCM	002F	Intermittent
TCM	0028	Intermittent
ECM	530D	Intermittent

Text**CSC = Customer Symptom Code****DTC = Diagnostic Trouble Code**

Note! If using a printed copy of this Retailer Technical Journal, first check for the latest online version.

NOTE! THIS DOCUMENT SUPERSEDES THE PREVIOUS VERSION OF RETAILER TECHNICAL JOURNAL 16761 DATED 07-01-2010. New AW TF80SC software has been added for a stalling condition. PLEASE UPDATE YOUR FILES.

DESCRIPTION:

The TCM Upgrades in the attached document are available to correct the complaints / symptoms listed in the attachment.

SERVICE:

If the vehicle fits in the model year or chassis range for the symptom in the attachment, download a TCM Upgrade.

VOLVO STANDARD TIMES GUIDE (VSTG) INFO:

Operation number 36004-2 - Control module, software download- See VSTG

- Claims may be submitted under the new car warranty when there is a documented customer complaint using claim type: 01
- Labor times are valid at the time of release and are subject to change.

Volvo Car Customer Service		
		TJ Instruction
		TJ No 16761
		Date January-11 Issue 09
Title	Transmission Control Module (TCM), Software (SW)	

Vehicle	Complaint / Symptom	Reset Adaptation to Zero	Adaptive Test Drive
GM4T65			
2003-2005 XC90 T6	This TCM SW should be used when the customer is complaining of gearbox related symptoms, when any parts are replaced in the gearbox, or when the complete gearbox is replaced. This TCM SW has modified torque handling at 1-2 and 2-3 shifts to reduce the shift force. With this download, the adaptation in the gearbox is reset, and therefore it is important to do a re-adaptation of the gearbox. IMPORTANT: Adaptation instruction for GM transmission: 1: Let the car stand on idle until the gearbox temperature have reach 50° C (122 °F) or higher. 2: Drive the car in D-position with steady acceleration pedal, start from low pedal position, and let the car shift up. 3: Repeat step 2 until the shifts feels ok. 4: Increase the pedal position, and let the car shift up. 5: Repeat step 4 until the shifts feels ok.	Yes	Yes
1999-2001 S80	TCM DTCs (Diagnostic Trouble Code) 0028, 002F, 0045, 0053, 008D, 0099 ECM(Engine Control Module) 530D DIM (Driver Information Module) message with no DTC Harsh 1-2 upshift, 4-2-4 shift and garage shifts Geartronic Downshift Shudder Engine RPM Oscillations During Highway Driving	Yes	No
2002-2004 S80 2003-2005 XC90	TCM DTC 0028 TCM DTC 0099 (Reset Adaptation to Zero before clearing code) 1-2 Upshift Quality: Slipping, Harshness, Delay, Hesitation 2-1 Downshift Shock	Yes	No

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Vehicle	Complaint / Symptom	Reset Adaptation to Zero	Adaptive Test Drive
AW 5 Speed (AW55-50/51)			
2007-2008 S60 2007 V70 B5244S ONLY	Transmission shifts normally from 1 st to 2nd but does not shift into 3 rd . After cycling the ignition, the symptom is gone. This generally occurs after customer comes to a stop and puts the transmission into N while stopped.	Yes	Yes
2007 S60/V70/XC70/XC90 (New, February 2007)	Slip / Flare / Harsh Shifts during the first few accelerations after a cold start.	Yes	Yes
2002-2006 S60/S80/V70/XC70/XC90	General Shift Quality 2-3 Flare, especially when cold or after Highway Driving 3-2 Power-On Downshift Quality, after coastdown Power-On Downshift Response TCM DTC 002E, 002F Slip / Flare / Harsh Shifts during the first few accelerations after a cold start. Applies to 2005-2006	2002-2004 No 2005-2006 Yes	2002-2004 No 2005-2006 Yes
2001 S60/V70/V70XC	General Shift Quality Shift Pattern Power-On Downshift Response Neutral Control Symptoms (Described in TNN 43-38, RTJ 17906)	Yes	Yes
2000 S/V70	General Shift Quality Harsh 4-2 and 3-2 downshifts 1st gear engine braking with shifter in 'L' position Harsh Coast Down Shifts	Yes	Yes
2001 C70	General Shift Quality Shift Pattern 2-3 Upshift Flare	Yes	Yes
2002 C70	General Shift Quality 2-3 Upshift Flare Readiness (Comprehensive Flag Not Ready)	No	No
2004.5 - 2006 S40/V50	General Shift Quality Power-On Downshift Response 3-2 Power-On Downshift Quality, after coastdown Torque Converter Lock-Up Shudder TCM DTC 002E, 002F	No	No
AW 4 Speed (AW50-42)			
1999 S/V/C 70	Delayed 3-4 Upshift Harsh 4-3-4 Shift Hunting Between Gears While Using Cruise Control TCM DTC 0045 ECM DTC 530D	Yes	No

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Vehicle	Complaint / Symptom	Reset Adaptation to Zero	Adaptive Test Drive
AW 6 Speed (TF80SC)			
2011 S60/S80/XC70/XC60	Refer to RTJ 23743 for additional information. Lock-up release and 4-3 downshift programming have been altered and the temporary protection mode has been removed.	No	No
2010 XC90	While the engine is warming up (cold start), the winter mode function on the gear box will not be activated if selected by the driver. There will be no "W" in the Driver information Module (DIM) or any indication on the winter mode button on the shifter panel. Refer to RTJ 23193.	No	No
2005-2007 XC90 V8	General Shift Quality Soft, harsh or long 1-2 Upshift Delayed engagement when moving shifter to 'R' or 'D' Power-On Downshift Response, especially after coast-down (ECM should also be upgraded for maximum response improvement) TCM DTC P074400 (This DTC indicates that the engine has stalled on one or more occasion. Fault trace the vehicle accordingly.) TCM DTC P073000	No	No
2007 XC90 3.2	Delayed upshifts after releasing the accelerator pedal. Excessive engine braking during coasting. (The ECM should also be upgraded for maximum drivability improvement.)	No	No

The "Power-On Downshift Response" Upgrade makes Kickdown / Passing Gear downshifts faster.

If the message 'Invalid' is received when ordering a TCM Upgrade, and Status 134 is shown under the details, the control module already contains the latest software.

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