


<h1>Technical Journal</h1>			
TITLE: <b>Harsh 5-4 Downshift and/or Rough Engagement at Standstill</b>			
REF NO: TJ 25994	ISSUING DEPARTMENT: Technical Service	CAR MARKET: United States and Canada	
PARTNER: 3 US 7510 Volvo Cars North America		ISSUE DATE:	
FUNC GROUP: 4378	FUNC DESC: Software	YEAR 2012	MONTH 05
		DAY 25	
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“Fixed Right — First Time”

Reference: VIDA, VSTG, TJ 16761

**Attachment**

File Name	File Size
Attachment TJ 25994.pdf	0.1805 MB

**Vehicle Type**

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
134	62	B5254T5			0		2011-2012		0017819-0128042	201046-201204

**CSC Customer Symptom Codes**

Code	Description
ND	Automatic transmission/Shifts rough or jerky/When downshifting
NF	Automatic transmission/Shifts rough or jerky/When engaging gear at standstill

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

**NOTE! THIS DOCUMENT SUPERSEDES THE PREVIOUS TECHNICAL JOURNAL 25994 DATED 03-13-2012. The software upgrade for 5-4 harsh downshift and traffic light bump on S60 T5 is now included in the normal TCM Upgrade/Reload. PLEASE UPDATE YOUR FILES.**



## DESCRIPTION:

The driver may feel a harsh shift or jerk when the automatic transmission (AW TF80SC) shifts from 5th to 4th gear at coast-down. The driver may also feel a rough or jerky engagement when the vehicle is at a standstill and the driver is releasing the brake to accelerate again.

## PRODUCT MODIFICATION:

New sealing in the transmission from chassis number 128042 . New adaptation functionality in the Transmission Control Module (TCM) service software (SW).

## SERVICE:

If the customer's complaint is related to the 5-4 downshift, the shift point can be monitored with a Vida laptop to be sure the harsh shift is actually occurring during the 5-4 downshift. If the customer's complaint is related to the jerky engagement when the vehicle is standing still, verify that the vehicle is at a complete stop and then release the brake. For verified customer complaints, download a TCM Upgrade. If the car has a chassis number that is between 086037 - 119529 (original TCM hardware P/N 30751946 or 31342781) you must also replace the TCM with P/N 31312609 and then perform a TCM Reload. The Reload will include the latest SW. **After the SW is downloaded, you must do an adaptation of the transmission in two steps.**

Step one (special adaptation instructions only for this TJ):

- a. Start the adaptation drive from transmission oil temperature of 40 degrees C.
- b. Perform repeated 5-4 coast downshifts without brake activated until shift quality is OK. Shortly after each of the 5-4 downshifts occurs, increase vehicle speed again to get back into 5th gear and repeat.
- c. Repeat step b also on other temperature areas.

**Note!** The new adaptation functionality has split the temperature, only for 5-4 shifts, into 5 different areas: 40-65, 66-73, 74-81, 82-89, 90-110 degrees C.

It might take some time before all areas have been adapted for 5-4 coast down shifts.

Step two (normal adaptation instruction):

Perform basic adaptation of the transmission according to VIDA instruction from transmission oil temperature 66 degrees C.

**The customer should be notified that some shifts for the first few days may be harsh or delayed. The transmission will continue to adapt for the first few days after the vehicle is returned to the customer.**

## VOLVO STANDARD TIMES GUIDE (VSTG) INFO:

Operation number 36004-2: Software control module downloading - See VSTG

Operation number 43715-2: Transmission Control Module (TCM) replace - See VSTG

Operation number 98398-2: Test drive acc. to TJ25994 (5-4 coast down) - 0.6 hrs

Operation number 43713-2: Automatic gearbox test drive/adaptation - See VSTG

**To view TJ attachment continue to next page:**

<b>Volvo Car Customer Service</b>	
	<b>TJ Instruction</b>
	<b>TJ No 25994</b>
	Date May-12 Issue 02
<b>Title</b>	Harsh 5-4 downshift and/or rough engagement at standstill

