



Technical Journal

TITLE:

Rough 2-1 downshifts, TF80SC

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TJ 31210

ISSUING DEPARTMENT:
Technical Service

CAR MARKET:
United States and Canada

PARTNER:
3 US 7510 Volvo Car USA

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FUNC GROUP:
4370

FUNC DESC:
**Automatic, transmission
(hydromechanical)**

Page 1 of 3

“Right first time in Time”

Attachment

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
124	90	B6304T4	US		6		2011-2015		-	201020-201427
124	94	B6324S4	US		0		2011-2014		-	201020-201346
124	95	B6324S5	US		0		2011-2014		-	201020-201346
124	95	B6324S5	US		6		2011-2015		-	201020-201427
134	90	B6304T4	US		6		2011-2015		-	201020-201427
136	90	B6304T4	US		6		2011-2015		-	201020-201427
136	94	B6324S4	US		6		2011-2014		-	201020-201346
136	94	B6324S4	US		6		2011-2015		-	201020-201427
136	95	B6324S5	US		0		2011-2015		-	201020-201427
136	95	B6324S5	US		6		2011-2014		-	201020-201346
155	90	B6304T4	US		6		2015-2015		-	201349-201427
156	90	B6304T4	US		6		2011-2015		-	201020-201427
156	94	B6324S4	US		0		2011-2014		-	201020-201346
156	94	B6324S4	US		6		2011-2014		-	201020-201420
156	95	B6324S5	US		0		2011-2014		-	201020-201346
156	95	B6324S5	US		6		2011-2014		-	201020-201420



CSC Customer Symptom Codes

Code	Description
ND	Automatic transmission/Shifts rough or jerky/When downshifting

VST Operation Number

VST Operation Number	Description
43713-2	Automatic gearbox test drive/adaptation

DTC Diagnostic Trouble Codes

Text

DESCRIPTION:

Note!

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

This Software (SW) only applies to vehicles in the list above and with Transmission Control Module (TCM) hardware part number (HWPN) 31312609.

If the vehicle has TCM HWPN 30751946 or 31342781, then the TCM would have to be replaced with HWPN 31312609 in order to accept the SW.

The downshift threshold for 2-1 gearshift has been set to 1 MPH compared to 4 MPH in the previous version. This change was implemented as part of several shift performance upgrades to solve rough shifts during the 5-4 downshift, N-D garage shift and Neutral Control.

Since the speed threshold was lowered in the latest software version, customers may experience a different behaviour when coming to a rolling stop, but never coming to a complete stop, followed by a quick acceleration.

SERVICE:

If customer complains about a rough 2-1 downshift during a rolling stop, even though customer has latest TCM software, please download TCM software according to SP numbers below.

Be aware that downloading this software will remove ALL fixes related to C1 issues, like rough 5-4 downshifts, N-D garage shift and Neutral Control.

SP 31456524 should be used for vehicle type

134

155

156

SP 31456542 should be used for vehicle type

124

136



If any SW is performed in the future, then VIDA will prompt the technician to overwrite this SW. If the technician chooses to overwrite the SW at that time, the customer may complain that the rough 2-1 downshifts has returned.

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 4370.