

Solution K34249333 Thursday, November 1, 2018 8:02:15 PM CET

Volvo Models

Volvo Model	VNR, VNX, VNL, VNM, VHD, VAH
Engine family	
Engine family	11L Engine, 13L Engine, 16L Engine
Emission Standard	
Emission Standard	2018, OBD2017, US17, US17+OBD16, US17+OBD18, US16, US15, US13 OBD, US14
** SOLUTION **	
Title	Volvo Chassis - Equipped With An Automated Manual Transmission Model D or F (AMT-D, AMT-F, I-Shift) Missing X1 Value In VDA And Default Settings Guidelines, Parameter P1AOB; Fault Code P1052-54, Error 40, Or Error 18 Encountered During Clutch Or Transmission Calibration (R1AAE) - US10+OBD13 Emissions And Newer, Model Year 2014 And Newer
Cause	It has been found in some AMT equipped chassis that the X1 parameter value (P1AOB) has not been registered to Vehicle Data Administration (VDA), or is set to a value of "0". This will result in immediate failure of the calibration operation and a message advising that error code 18 or error code 40 has been generated.
	This issue is discovered only when a transmission or clutch calibration is attempted after repairs such as clutch replacement, the Transmission Electronic Control Unit (TECU) software is updated, or after an Over The Air (OTA) programming event.
Solution	If transmission or clutch calibration fails immediately after the operation is started following a clutch replacement or programming operation:
	1. Disconnect the TECU from the chassis wiring harness.
	2. Connect <u>directly</u> to the transmission with PTT using the appropriate adapter.
	3. Perform operation 4000-07-04-01 Transmission Calibration (Transmission Removed) located under the Calibrate tab.
	4. After successful calibration, reconnect the chassis harness to the TECU.
	5. Run Operation 4320-07-03-01 Transmission, Clutch Engagement Point Calibration. Select Option B.

If the calibration is successful: The existing invalid X1 value has been overwritten and the remainder of the repairs (if any) can be completed.

If the calibration fails again with the same error code for R1AAE routine: An eService case is required for additional assistance.

- The eService case MUST include:
 - This Solution Number
 - A description of the original customer complaint.
 - A **thorough** description of all work performed up to the point of the case's creation.
 - A DTC Readout if codes are present, active OR inactive.
 - Any screenshots or photos that are relevant to this situation.

Internal comments (BO)

Creation date

If an eService case is submitted for this issue:

1. Check that parameter P1AOB Clutch X1 Default Value is loaded to the vehicle in VDA or Configurator.

If P1AOB is missing, set to 0 or set to an invalid value it must be added and/or updated with the correct value below:

• **AMT-D:** 25.0 mm • **AMT-F:** 20.0 mm

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If P1AOB is present and set correctly: The gear selector should be checked to verify that it is reporting Neutral to the TECU.

	that it is reporting reduct to the 1200.		
NA_Sister solutions	<u>K59025056</u>		
Solution visibility	Dealer distribution		
Function(s)/compon	nction(s)/component(s) affected		
Function affected	automatic transmission		
Function Group			
Function Group	431 gearbox, manual		
Customer effect			
Main customer effect	calibration/programming/pairing/missing operation, fault code/display		
Fault code(s)			
OBD 2013 Diagnostic	P1052, Error 43		
Trouble Codes			
Conditions			
Other conditions	after a workshop procedure on the vehicle		
Administration			
Author	UT9268H		
Last modified by	A241298		

Date of last update	26-10-2018 17:10
 Review date	01-01-2020 00:01
Status	Published
 NA_Reviewer	ut9268h
 NA_Author_Group	GTT