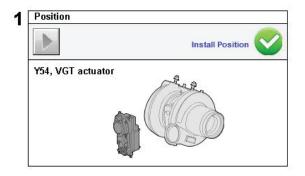


Solution K45573162 Wednesday, August 29, 2018 6:06:04 PM CEST

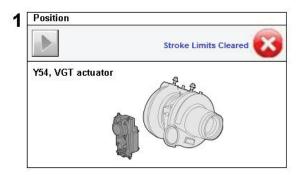
Mack Models

Mack Model	TE-TerraPro , LR , LEU , MRU , GR-Granite , PI-Pinnacle , AN-Anthem , CHU , C $\rm XU$, GU , TD
Volvo Models	
Volvo Model	VNR, VT, VNX, VNL, VNM, VHD, VAH
Engine family	
Engine family	11L Engine, 13L Engine, 16L Engine, MP7, MP8, MP10
Emission Standard	
Emission Standard	$2018,\; OBD2017,\; US17\; GHG,\; US16,\; US15,\; US07,\; US10,\; US13\; OBD,\; US14\; GHG$
** SOLUTION **	
Title	Variable Geometry Turbo (VGT) Calibration: Premium Tech Tool (PTT) Displays "Motor Disabled" Message, Operation Will Not Run, Will Not Complete When Running Operation; Poor Performance Following Calibration - US10 And Newer Emissions, Common Model Years 2014 And Newer
Cause	If the Variable Geometry Turbo Calibration (VGT) operation is unsuccessful, the VGT may not respond normally and be stuck in a default position. This can cause poor performance with no fault codes. This can be solved by ensuring the calibration finishes correctly.
Solution	I. Run PTT Operation 2551-07-03-01 Variable Geometry Turbo, located under the Calibrate tab.

- II. Press the Play button for Step 1, Position. This step clears the end stops and pre-positions the output gear for installation.
- **A.** A **Green Circle with Check Mark** and **Install Position** message **must be displayed** as shown below before proceeding further. **If the correct status is observed, proceed to Step 3 of the PTT operation.**



B. If an error message and/or a **Red Circle with an X** is displayed as shown below, Operation Step 1 did not complete correctly.

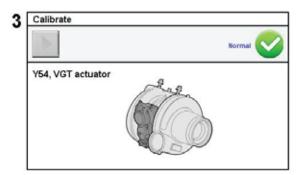


If this condition is observed:

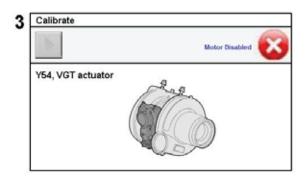
- 1. Stop the calibration.
- 2. Exit the operation.
- 3. Restart the calibration operation.
- **4.** Perform Operation Step 1 again until the conditions in Part A are observed.

III. Press the Play button for Step 3, Calibrate.

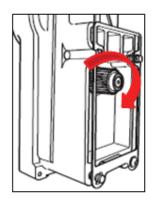
- A. Allow the operation to run.
- **B.** When the calibration completes, a **Green Circle with Check Mark** and **Normal** message should **display** after calibration completes. There may be a delay between the test completion and the message display.



C. If the operation fails and a **Red Circle with an X** is displayed with a "Motor Disabled" message, proceed to Section IV below.



- IV. If a "Motor Disabled" message is observed (most common when the actuator is unbolted from the turbocharger) at any time during the Operation:
- A. Ensure the ignition key is turned ON.
- **B. By hand**, spin the actuator output gear at least one full revolution as shown below. This allows the motor to find the internal reference magnet on the output shaft.



C. Rerun Step 1 of the operation.

Note: It may be necessary to perform the steps above more than once to achieve a successful result.

Solution visibility	Dealer distribution
Function(s)/compone	nt(s) affected
Function affected	Turbocharger, Diagnostic tool
Function Group	
Function Group	255 turbocharger
Customer effect	
Main customer effect	calibration/programming/pairing/missing operation
Conditions	
Frequency of occurrence of	random
problem	Talldoffi
Administration	

Author	RU4469V
Dealer ID	RU4469V
Last modified by	RU4469V
Creation date	25-07-2018 19:07
Date of last update	17-08-2018 15:08
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Status	Published