

**Solution K18890195****Friday, June 11, 2021 5:22:40 PM CEST****** SOLUTION ****

Title **Expired** US07, US10, US13 Volvo I-Shift Equipped Vehicle Attempts to Push Through Service Brake Application

Volvo Models

Volvo Model VNL , VNM , VAH , VHD

Emission Standard

Emission Standard US07 , US10 , US10+OBD13

Transmission

Transmission AMT-C , AMT-D , AMT-F With Crawler Gears , AMT-F Without Crawler Gears

**** SOLUTION ******Cause**

This is usually caused by the service brake switch out of range.

It is important to note that if there are any clutch control related codes logged (active or inactive), they need to be resolved first before continuing with the diagnoses.

Additional symptoms:

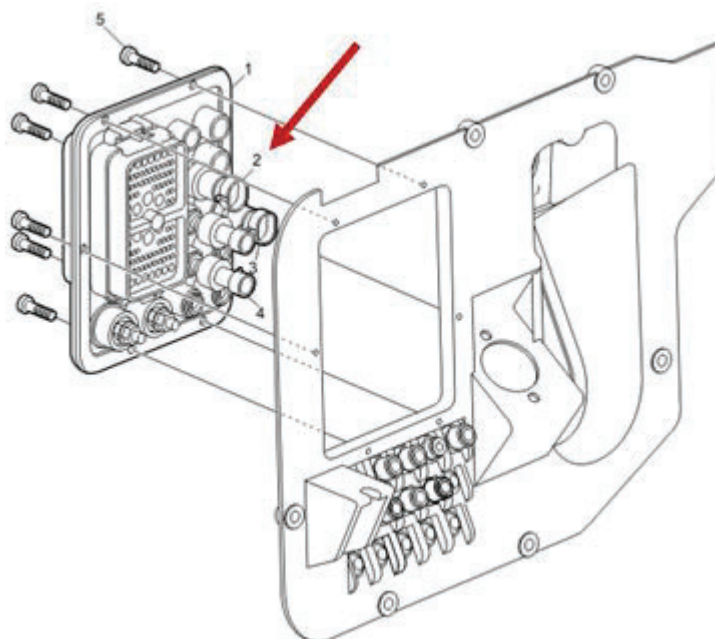
Need to depress the brake pedal harder than normal to maintain the vehicle's stopped condition.

Need to depress the brake pedal harder to get the transmission in gear.

Need to depress the brake pedal harder to disengage the cruise control.

Solution

1. Connect a known good pressure gauge to a service brake chamber with a tee fitting.
2. Start Tech Tool operation:
Volvo - 3845-08-03-01 Brake Contacts, Test (service brake)
3. Slowly depress the service brake pedal and record the pressure displayed on the gauge when the light turns green in the test.
4. Compare results with switch specifications (2-6 psi of ascending pressure).
5. If outside of specification replace the service brake switch.
6. The service brake switch is located at the pneumatic pass-through plate inside the cab. The picture below is for reference only and may not apply to all applications. However the arrow is the most common location for the switch. Verification through Impact is recommended.



Solution visibility	Dealer distribution
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Function(s)/component(s) affected

Function affected	service brake
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Function Group

Function Group	3 electric power supply; lighting; instruments; software; warning and information system , 43 gearbox , 5 brake
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Customer effect

Main customer effect	efficiency/abnormal behavior , stop/start , slipping
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Acceleration/speed	not regulated
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Road behaviour	driveability
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Conditions

Vehicle operating mode	when driving , when stationary , when braking
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Frequency of occurrence of problem	always
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Administration

Author	ut0846a
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Last modified by	A241298
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Creation date	02-05-2014 16:05
Date of last update	09-05-2019 22:05
Status	<i>Expired</i>
Average score	0
Number of scores	2

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