

**** SOLUTION ****

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

Volvo Model	VNL , VNM , VAH , VHD
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Emission Standard

Emission Standard	US07 , US10 , US10+OBD13
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Transmission

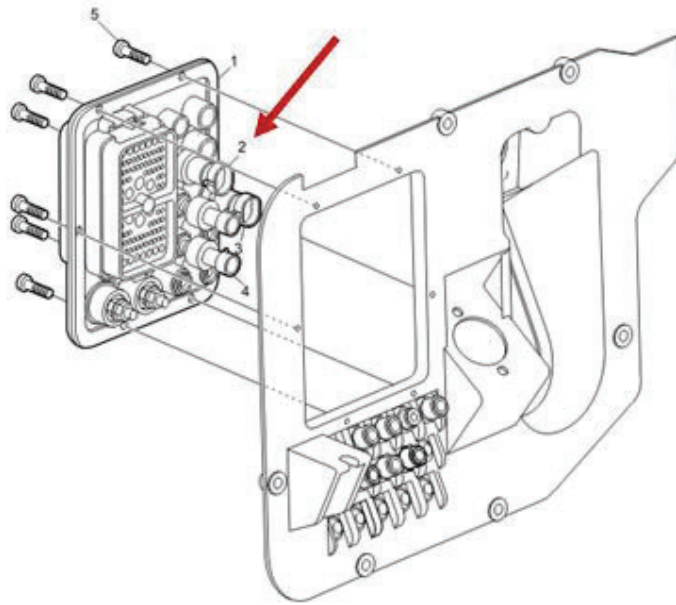
Transmission	AMT-C , AMT-D , AMT-F With Crawler Gears , AMT-F Without Crawler Gears
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**** SOLUTION ****

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.
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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
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Impact is recommended.



Solution visibility

Dealer distribution

Function(s)/component(s) affected

Function affected

service brake

Function Group

Function Group

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

Customer effect

Main customer effect

efficiency/abnormal behavior , stop/start , slipping

Acceleration/speed

not regulated

Road behaviour

driveability

Conditions

Vehicle operating mode

when driving , when stationary , when braking

Frequency of occurrence of
problem

always

Administration

Author

ut0846a

Last modified by

A241298

Creation date

02-05-2014 16:05

Date of last update

09-05-2019 22:05

Status

Expired

Average score

0

Number of scores

2

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