



## Solution

Title (customer effect)

**US07, US10, US13 Mack mDRIVE Equipped Vehicle Attempts To Move Forward With The Service Brake Applied**

### 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:  
Mack - 1700-08-03-07 Switch Status Monitoring, 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.

Solution visibility

Dealer distribution

## Function(s)/component(s) affected

Function affected

transmission , automatic transmission , service brake

## Function Group

Function Group

3 electric power supply; lighting; instruments; software; warning and information system , 431 gearbox, manual , 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

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## Administration

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## NA\_MACK\_Vehicle\_Range

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ge Conventional , CHU , CXU , GU , TD

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