



## Volvo Chassis - Equipped With An I-Shift Transmission - Vehicle Jerks When Accelerating From A Stop In Drive Or Reverse; Transmission Bucking, Slipping When Taking Off From A Stop



> Internal Content

For vehicles exhibiting the symptoms above:

### 1. Check brake switch calibration.

**1.1.** Connect a pressure gauge (verified to be reading properly) to a service brake chamber using a tee fitting

**1.2.** In Premium Tech Tool (PTT), navigate to the Test tab and run operation [3845-08-03-01 Brake Contacts](#).

**1.3.** Slowly depress the service brake pedal until the icon for the Brake pedal switch illuminates on the test screen.

**1.4.** Record the pressure shown on the gauge at the time the icon turns on.

**1.5.** Repeat steps 1.3 and 1.4 for the Brake pressure switch.

**1.6.** Compare the two readings with the switch specifications.

- **Specification:** Between 2-6 psi ascending pressure.

### 2. Proceed per findings

- **If one or both switches are out of specification:** Replace the sensor or sensors that are out of range. Retest operation.
- **If both switches are within specification:** Proceed to Step 3.

### 3. If no issues are identified from the Brake Contacts test:

- **If the symptoms are occurring when moving forward:** Review the DTC Readout for any applicable fault codes and proceed with

Live UI r diagnosis.

- **If there are no associated fault codes:** Refer to solution CBR-931 for Clutch Control Actuator inspection.

• **If the symptoms are occurring when in reverse:** Refer to solution CBR-208 for inspection instructions for the input shaft and spigot bearing.

[k14409753](#)[i-shift](#)[jerks in reverse](#)[jerks from stop](#)[volvo](#)

## Related links and attachments

No links or attachments available



## Feedback

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Tech Tool

Tech ToolLinksHelp

BRADLEY PICKENS

ProductProduct HistoryDiagnoseTestCalibrateProgramImpact

1

> 29 psi

Front

30 psi

Rear

30 psi

3845-08-03-01 Brake contacts

Simulation

Information >> Conditions >> Execution

Automatically checked conditions

1 Air pressure above 29 psi



Continue >



Cancel



Chassis ID: M748 37585VIN: 1M2AX07C9JM037585Work Order: 00000

ProductOnline


9:41 AM12/23/2021

**Power supply, pedal switch**

**Brake pedal, Pressure switch**

**Brake test**

### 3845-08-03-01 Brake contacts

 Simulation

Information >> Conditions >> Execution

#### Information

The brake test result is calculated based on the adjustment and timing of the brake switches. Switches being out of alignment may cause the brake test to fail

#### Action

Depress the brake pedal and check if the status is indicated correctly

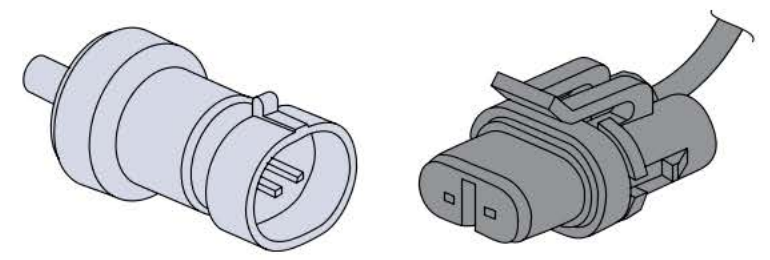
#### Test result

Select one of the following alternatives

- ☒ OK
- ☐ Not OK

Continue >

S48, S48A Brake pressure switches



3845-08-03-01 Brake contacts

Simulation

Information >> Conditions >> Execution

Purpose

Check the status of the brake system switches

Components to be tested are:

- Brake pedal switch
- Brake pressure switch
- Brake test