



Mack Chassis - Diagnostic Trouble Code (DTC) P105594 Brake Switch Status - Special Instructions



P1055 Brake Switch Status

Fault code P105594 becomes active when the gear selector is moved from neutral to Drive or Reverse without prior application of the service brake.

To verify, perform the following test:

CAUTION

Prior to performing the steps below ensure the areas in front of and behind the vehicle are clear of people and obstructions.

With the engine running, depress the service brake and attempt to select either drive or reverse. Does the transmission engage the selected gear?

- If the transmission engages the selected gear, inform the operator of the code setting conditions along with the results and return the unit to service.
- If the transmission does not engage the selected gear and turns on the "CHECK" lamp, or has any of the following additional symptoms, perform the "Brake Pressure Sensor Test" as outlined below.

Some additional symptoms are as follows:

- Vehicle jerks when accelerating from a stop in drive or reverse.
- Transmission bucking, slipping when taking off from a stop.
- 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



transmission in gear.

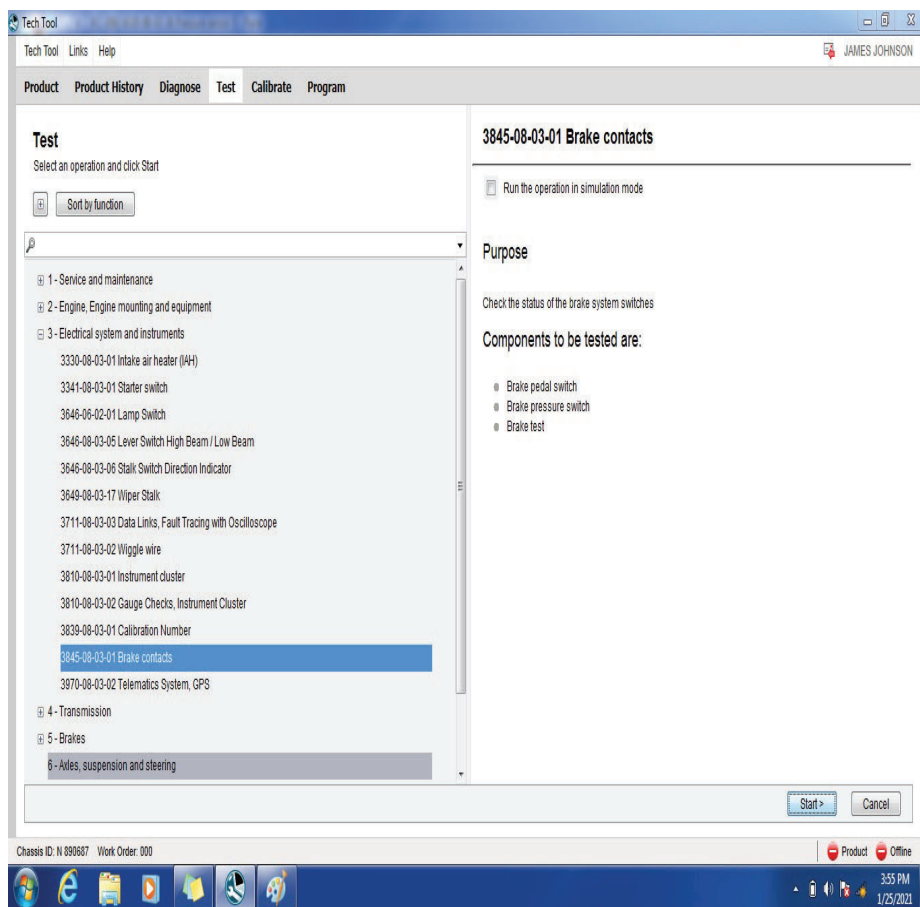
- Need to depress the brake pedal harder to disengage the cruise control or fails to engage.

Brake Pressure Sensor Test:

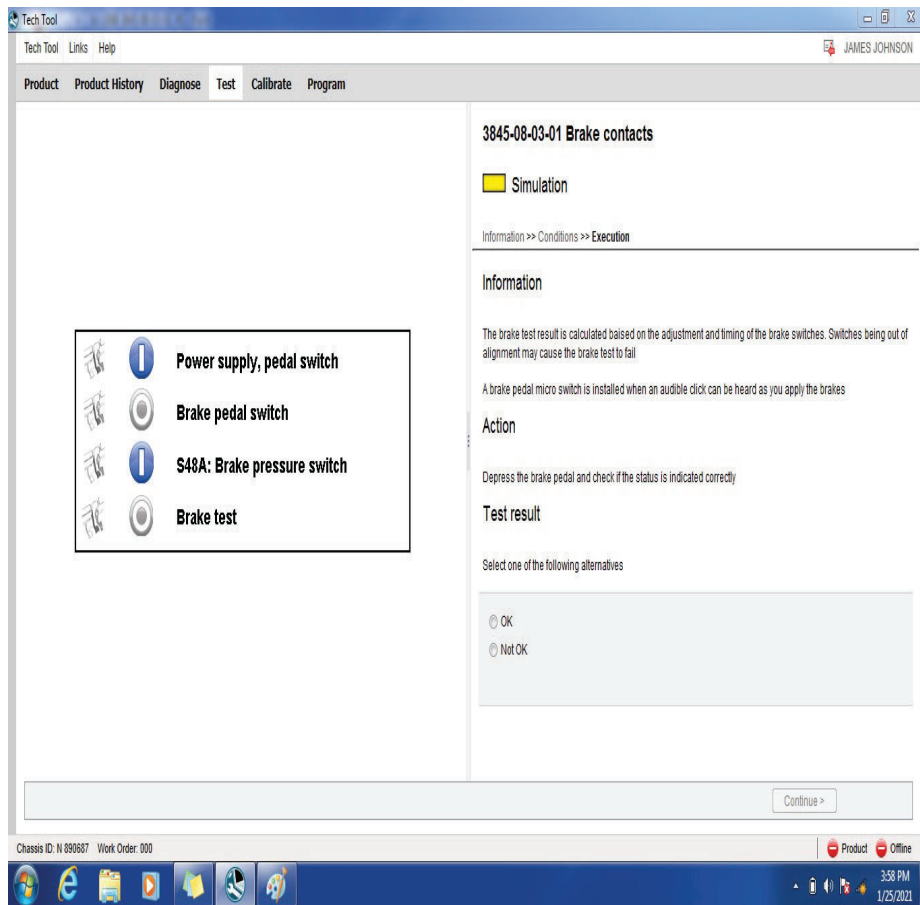
1. Connect a known good external brake pressure gauge to the service side of the steer axle brake chamber.

2. Using PTT, navigate to the "TEST" tab and start operation:

3845-08-03-01 Brake Contacts, Test (service brakes)



3. Slowly depress the service brake pedal and record the reading on the gauge when the indicators in PTT turns from gray to blue.

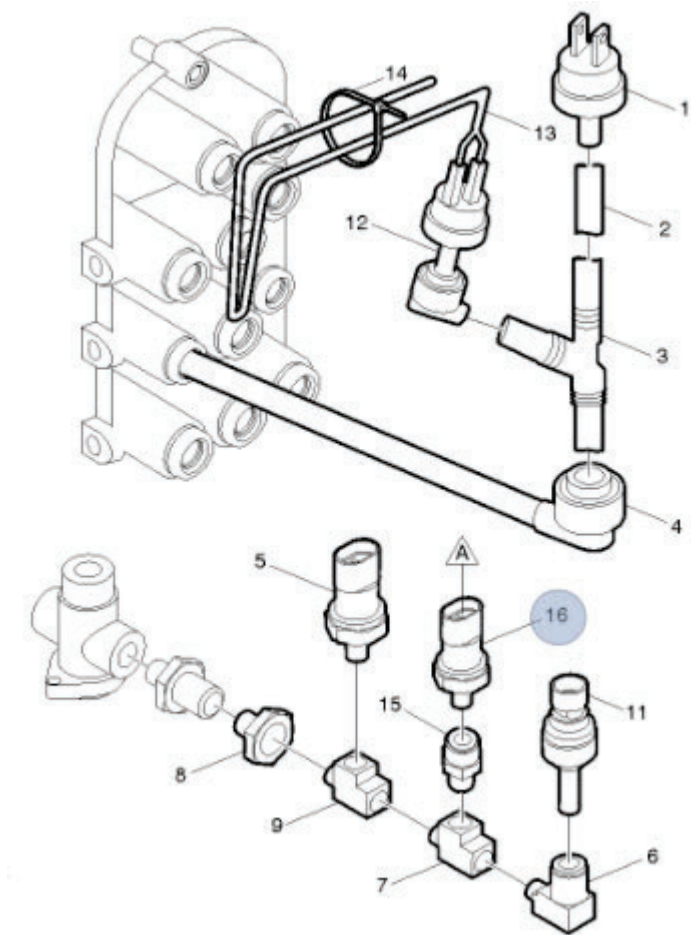


4. Rapidly release the pedal, the pressure should drop and indicators should turn from blue to gray immediately.

5. Compare the gauge reading with the sensor spec. If the reading is out of range for either one or both sensors, replace and retest.

- Sensor specification: 2-6 psi (13.8-41.4 kpa) ascending pressure.

6. If the pressure takes time to drop off and/or the indicators do not change quickly, check for a restriction in the air circuit.



Tags

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Test

Select an operation and click Start

Sort by function

- 1- Services and maintenance
- 2- Engine, engine mounting and equipment
- 3- Electrical system and instruments
 - 3333-08-03-01 Intake air heater (IAH)
 - 3344-08-03-01 Starter switch
 - 3444-08-02-01 Lamp switch
 - 3444-08-03-05 Lever Switch High Beam / Low Beam
 - 3444-08-03-06 Static Switch Direction Indicator
 - 3444-08-03-10 Steering Wheel Buttons
 - 3444-08-03-17 Wiper Switch
 - 3711-08-03-01 Data Link - Fault Finding with Oscilloscope
 - 3810-08-03-02 Woggle wire
 - 3810-08-03-02 Rough Check, Instrument Cluster
 - 3833-08-03-01 Calibration Number
 - 3844-08-03-01 Brake contacts
 - 3888-08-03-02 Telematics System, GPS
- 4- Transmission
- 5- Brakes
 - 6- Axles, suspension and steering
 - 7- Frame, springs, shocks and wheels
 - 8- Body, cab and interior
 - 9- Miscellaneous

3845-08-03-01 Brake contacts

Run the operation in simulation mode

Purpose

Check the status of the brake system switches

Components to be tested are:

- Brake pedal switch
- Brake pressure switch
- Brake test

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

S48A, S59 Brake pressure switches



Continue > Cancel

Product Online

Chassis ID: NR 214983 VIN: 4V4NC9EH2KZ214983 Work Order: 0000

10:41 AM
8/31/2021



3845-08-03-01 Brake contacts

Simulation

Information >> Conditions >> Execution

Automatically checked conditions

1 Air pressure above 29 psi

1		> 29 psi		Front	30 psi
				Rear	30 psi



Continue > Cancel

Product Online

Product Online

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.
A brake pedal micro switch is installed when an audible click can be heard as you apply the brakes.

Action

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

Test result

Select one of the following alternatives

☐ OK
☐ Not OK

Power supply, pedal switch

Brake pedal, Pressure switch

S48A: Brake pressure switch

Brake test