

2011 Benz S300L Air Suspension Level Calibration Method

Product Model	Date	Number
X-431 series	20160803	—

Vehicle Coverage:

- Benz S300L, 2011, VIN=WDBNG5EB4BA3*****

Fault Symptom:

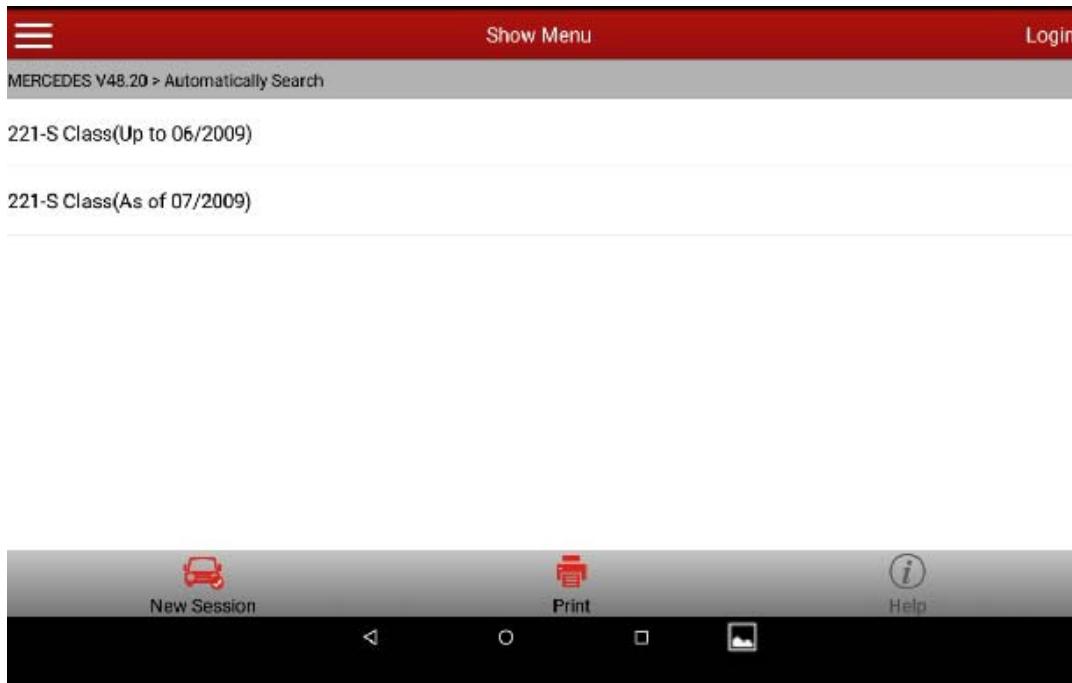
The air suspension system sinks. Three air suspension (damper) and distribution valves are replaced. After air suspension is replaced, level calibration must be performed.

Procedure:

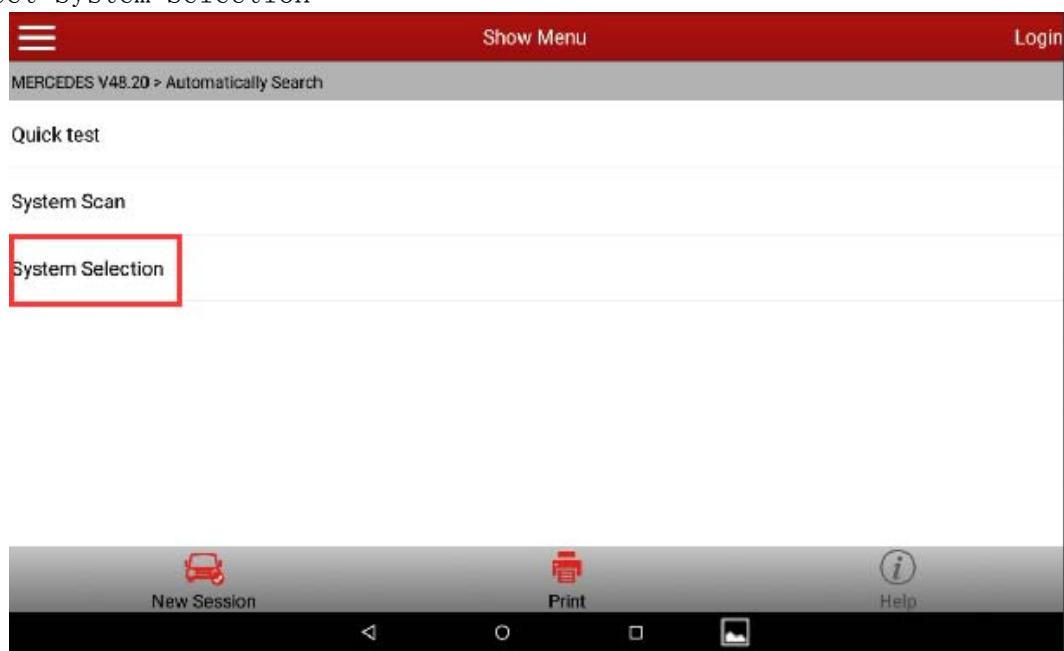
- 1). Choose Benz V48.11 or a later version.



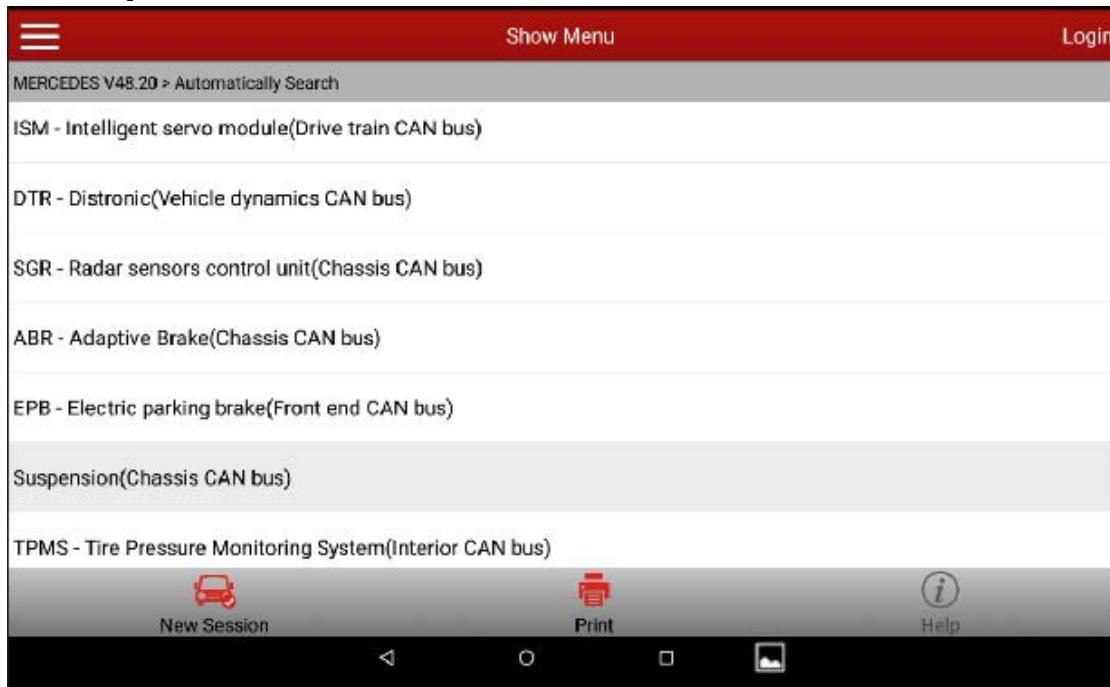
2). Choose 221-S class (as of 07/2009) and click OK.



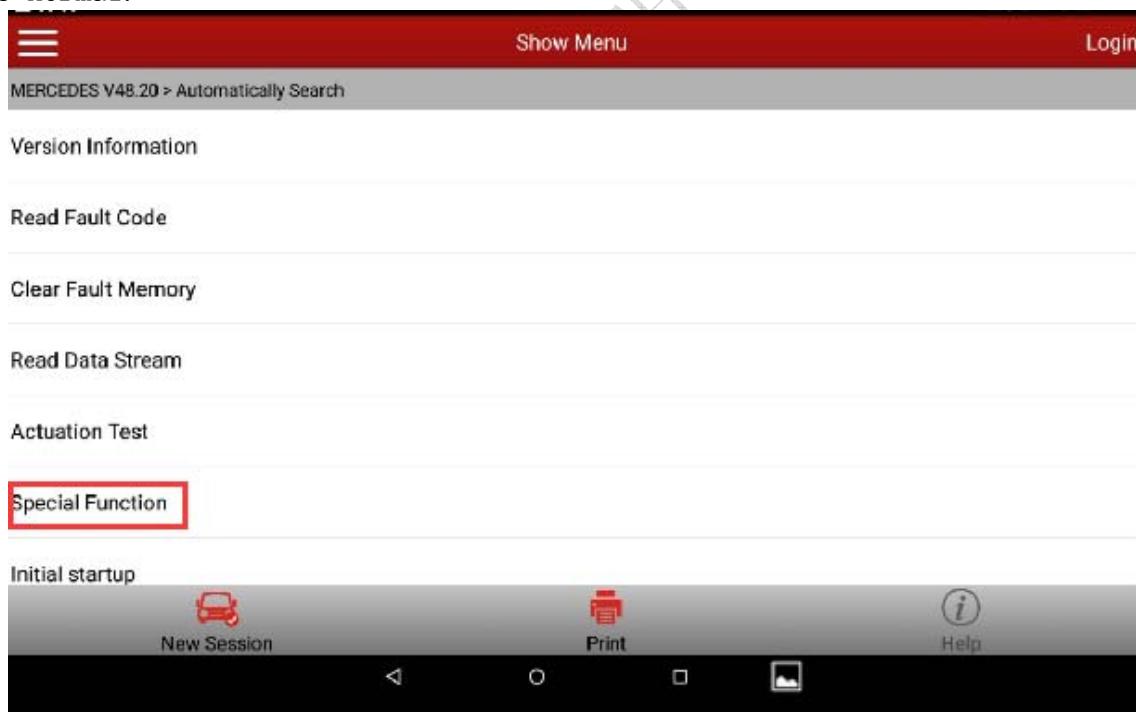
3). Select System Selection



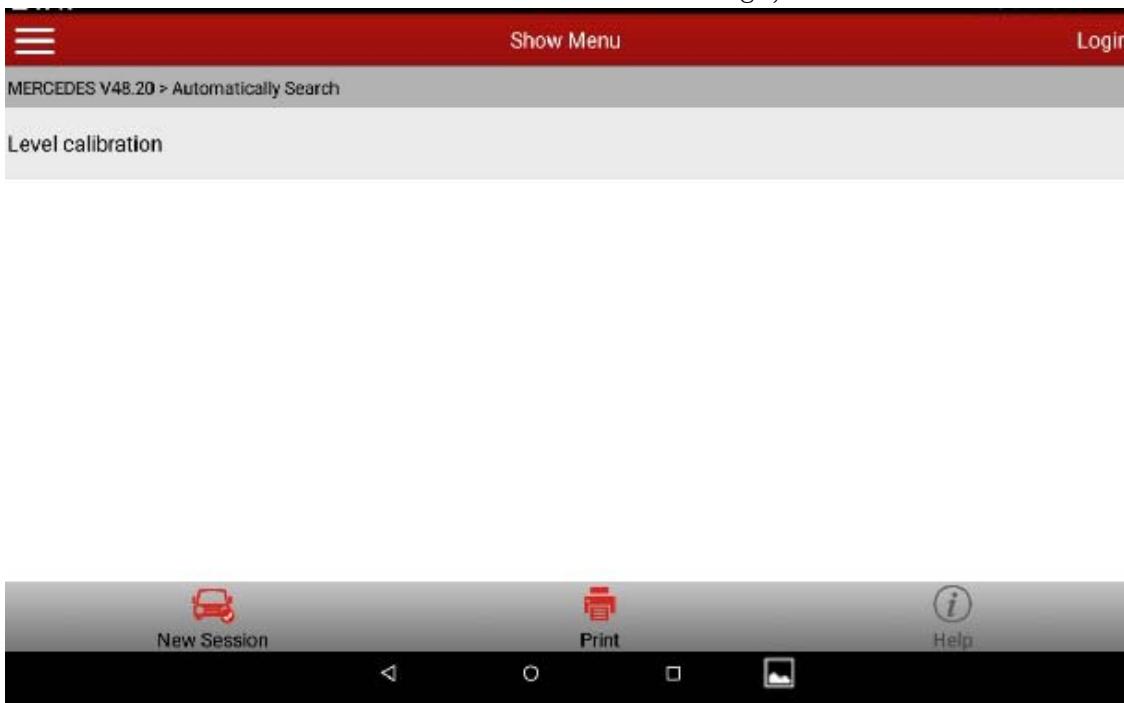
4). Choose Suspension (chassis CAN bus).



5). Choose special function. Note: Before level calibration, read and clear DTCs first. If any fault exists, rectify the fault first. Ensure that the air suspension system is normal.



6). Choose level calibration to check the hint message, and click OK.

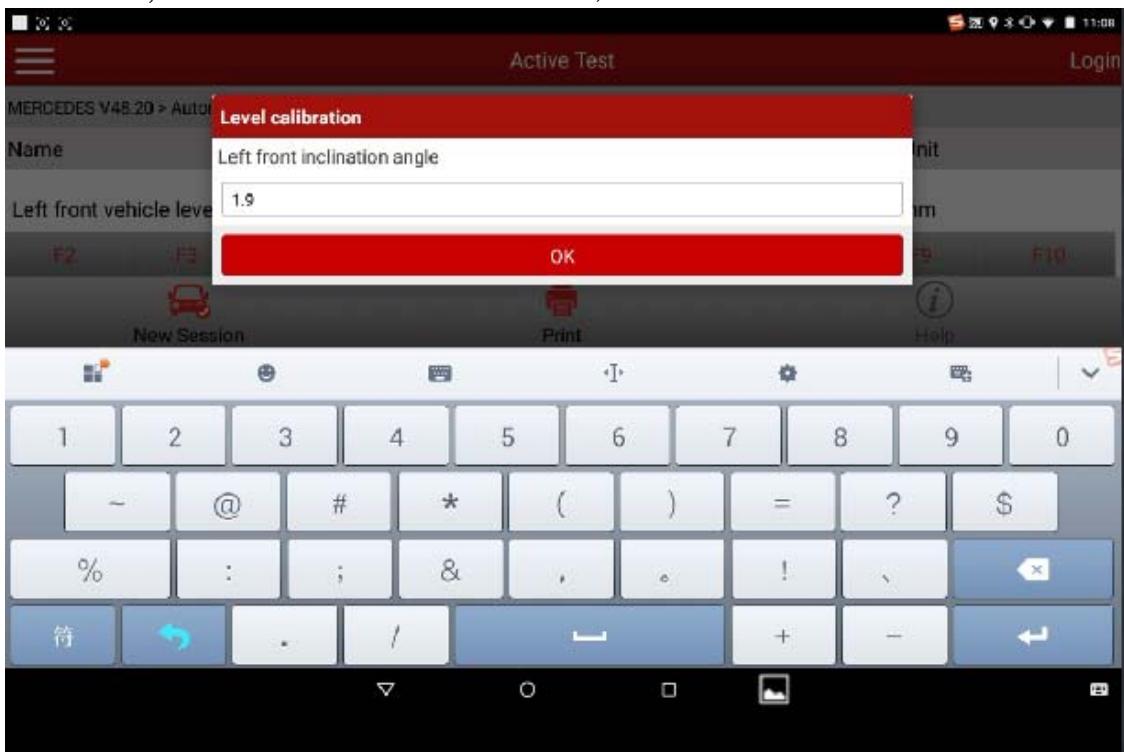


7). Check height and sensor information.

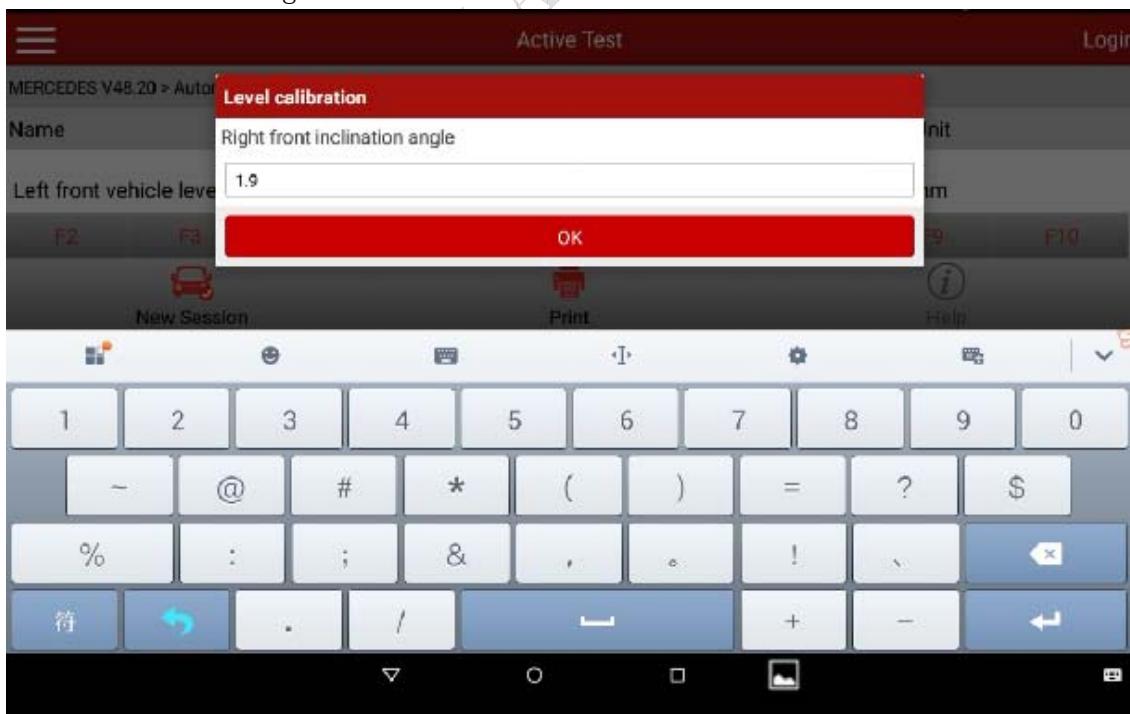
Name	Value	Unit
Left front vehicle level	131	mm
Right front vehicle level	130	mm
Rear vehicle level	130	mm
Signal 1 of component B22/8(Left front level sensor)	2.49	V
Signal 1 of component B22/9(Right front level sensor)	2.59	V

This screenshot shows a table of vehicle height and sensor information. The table has three columns: 'Name', 'Value', and 'Unit'. The data rows are: Left front vehicle level (Value: 131, Unit: mm), Right front vehicle level (Value: 130, Unit: mm), Rear vehicle level (Value: 130, Unit: mm), Signal 1 of component B22/8 (Left front level sensor) (Value: 2.49, Unit: V), and Signal 1 of component B22/9 (Right front level sensor) (Value: 2.59, Unit: V). The table is set against a dark gray background. At the bottom, there is a dark gray footer bar with icons for F2 through F10, a car icon labeled 'New Session', a printer icon labeled 'Print', and a help icon labeled 'Help'. There are also standard Android navigation icons for back, home, and recent apps.

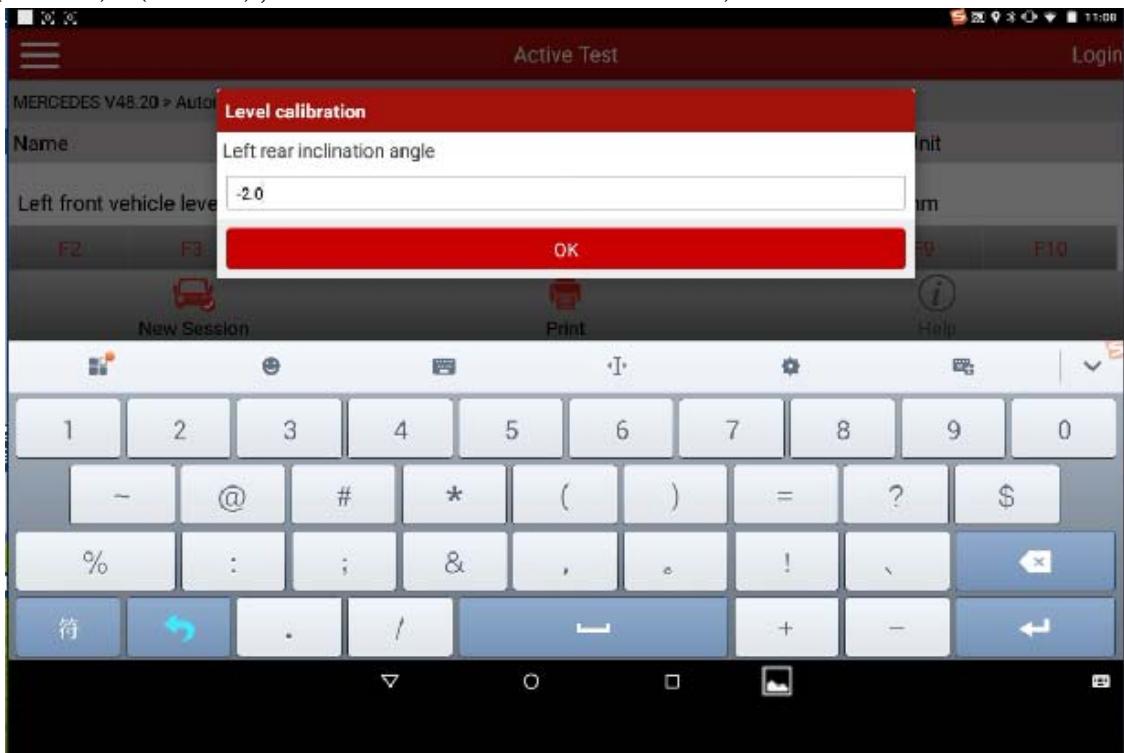
- 8). Check the sensor, front axle specified value, rear axle specified value, and roles of F2–F10 keys. Press F3–F10 to adjust the level height to standard value. Then, press F2 to input the angle.
- 9). Set the FL tilt angle to 1.9 (in Figure 7, front axle specified value: tilt angle 1.4° – 2.4° , use the middle value 1.9°) Click OK.



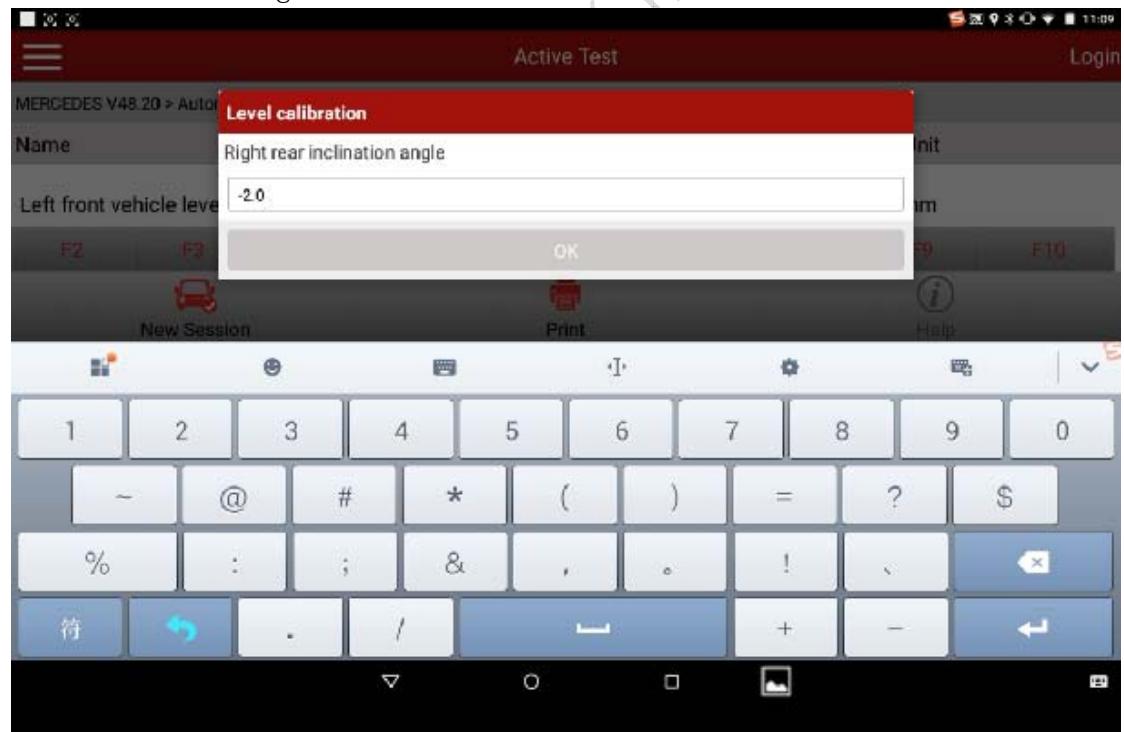
- 10). Set the FR tilt angle to 1.9. Click OK.



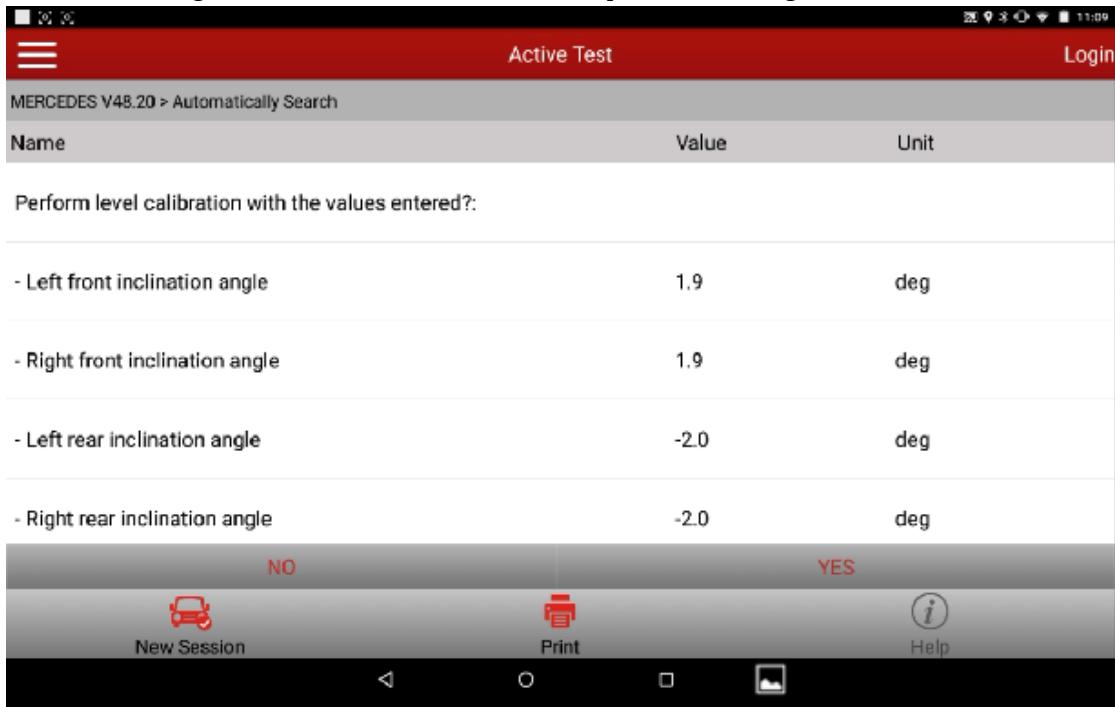
- 11). Set the RL tilt angle to -2.0 (rear axle specified value: tilt angle (-1.6°)-(-2.3°), use the middle value -2.0°) Click OK.



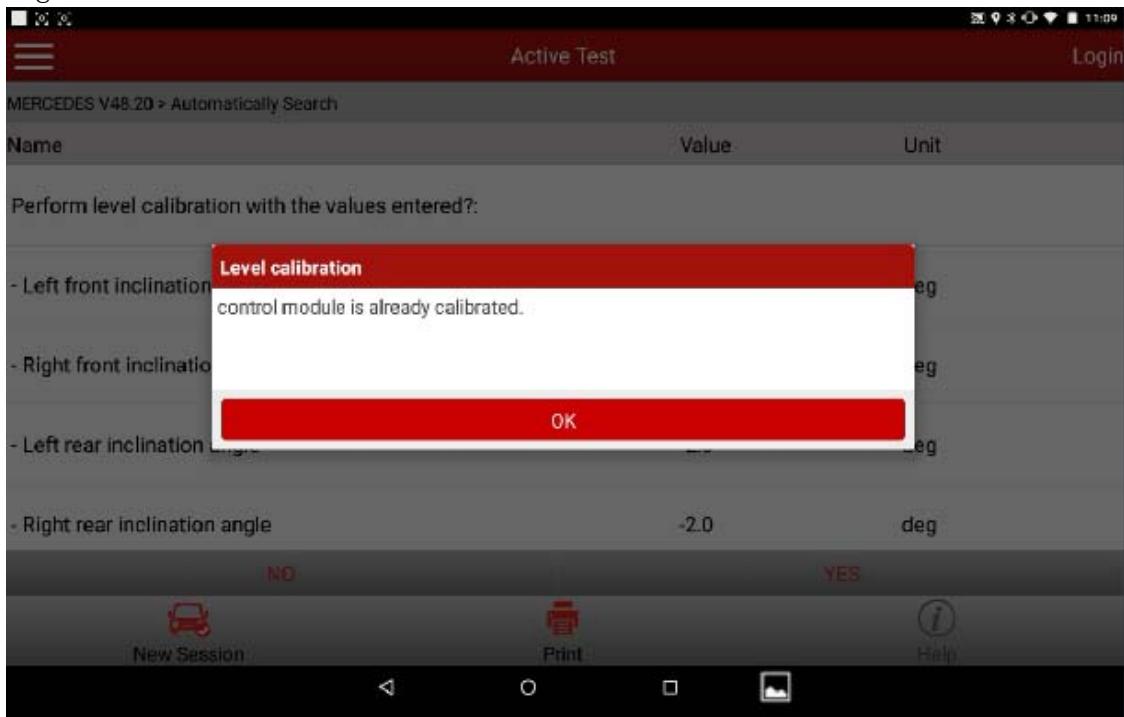
- 12). Set the RR tilt angle to -2.0 and click OK.



13). Check tilt angle data and click Yes to perform height calibration.



14). Height calibration succeeds. Click OK.



Statement:

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