



11. Faults

 Other possible malfunctions are primarily of a technical nature and are to be checked and if necessary rectified by a qualified engineer. Always contact the customer service of your authorized Bosch equipment dealer.

 To enable action to be taken quickly, it is important to inform customer service of the specifications on the rating plate (label on the flange end of the WBE 4430) and the nature of the problem.

Faults	Causes	Remedy
When the machine is started up, the monitor does not switch on	<ol style="list-style-type: none"> 1. Defective fuse or missing phase 2. Damaged fuse in electrical connection 3. CPU board fuse damage. 	<ol style="list-style-type: none"> 1. Check the mains connection. <p>If the error message persists, contact customer service.</p> <p>Caution: Repeated fuse damage is an indication of a malfunction. If the error message persists, contact customer service.</p>
1	<ol style="list-style-type: none"> 1. Setting and calibration data lost from PCB memory 2. One or more calibration operations (setting, calibration of electronic vernier caliper/Angular width gauge) not performed 	Check and correct calibration and settings.
2	Wheel guard raised prior to completion of measurement	Wait for end of measurement before raising wheel guard.
3	<ol style="list-style-type: none"> 1. Backward rotation of wheel on start of measurement 2. Incorrect connection of motor 	<ol style="list-style-type: none"> 1. Check that wheel is stationary on starting and stop it turning backwards on starting. 2. Check proper connection of motor.
4	<ol style="list-style-type: none"> 1. No motor operation, motor does not attain the necessary speed 2. Fault in electrical connection 3. Fault in PCB 	<ol style="list-style-type: none"> 1. Check mains voltage (probably too low). 2. Check electrical connection or power cord. 3. Replace the PCB.
5	<ol style="list-style-type: none"> 1. Balance weight not attached to wheel 2. Measurement sensors not correctly connected 	<ol style="list-style-type: none"> 1. Repeat calibration from the start and attach balance weight as specified by the process. (refer to 12.312.2). 2. Check the connection of the measurement sensors.
6	<ol style="list-style-type: none"> 1. Wheel guard not lowered 2. Damage to wheel guard safety switch 	<ol style="list-style-type: none"> 1. Lower wheel guard with wheel attached. 2. Replace wheel guard switch.
7	Excessive phase difference between the 2 measurement sensors	<ol style="list-style-type: none"> 1. Check for correct attachment of calibration weight. 2. Check machine connection; WBE 4430 probably not stable and vibrating excessively. 3. Check contact between measurement sensor and PCB. 4. Replace measurement sensor. 5. Replace PCB.
8	Inner measurement sensor not correctly connected, defective or open circuit in wire	<ol style="list-style-type: none"> 1. Check connection of left measurement sensor. 2. Replace measurement sensor.
9	Outer measurement sensor not correctly connected, defective or open circuit in wire	<ol style="list-style-type: none"> 1. Check connection of right measurement sensor. 2. Replace measurement sensor.
10	<ol style="list-style-type: none"> 1. Measurement sensor for position recognition defective 2. No motor operation 	<ol style="list-style-type: none"> 1. Check connection of light barrier PCB. 2. Check that the light barrier PCB is protected against light and provide a cover if necessary. 3. If the fault persists, check and if necessary replace the light barrier PCB. 4. Check the mains connection.
11	<ol style="list-style-type: none"> 1. Measurement sensor for phase recognition defective 2. No motor operation 	<ol style="list-style-type: none"> 1. Check connection of light barrier PCB. 2. Make sure the light barrier PCB is protected against light and provide a cover if necessary. 3. Check and if necessary replace the light barrier PCB. 4. Check the mains connection.
17	Weight outside setting range (weight required for balancing is more than 250 g)	<ol style="list-style-type: none"> 1. Check whether the wheel is correctly attached to the flange. 2. Determine the outer weight position (nevertheless), attach a 100 g weight and start a different measurement.
18	Wheel data not entered	Enter wheel data before performing measurement.
19	Input signal of right measurement sensor lower than that of left sensor	Interchange the connections of the two measurement sensors.

Faults	Causes	Remedy
20	<ol style="list-style-type: none"> 1. Pedal pressed during measurement 2. Irregular rotational speed of motor 3. Wheel speed below minimum value 	<ol style="list-style-type: none"> 1. Do not press pedal whilst motor is in operation. 2. Make sure the WBE 4430 is not subjected to any impact during measurement. 3. Check mains voltage (probably too low).
21	The PCB has detected an excessively high wheel speed with the wheel guard open (shaft rotating at high speed although the machine has not been started): Power supply unit is deactivated	<ol style="list-style-type: none"> 1. Switch off the WBE 4430 . 2. Lower the wheel guard, switch the WBE 4430 on again without moving the wheel. 3. If the error message persists, contact customer service.
22	Irregular measurement sensor signals	<ol style="list-style-type: none"> 1. Check that the light barrier PCB is protected against light and provide a cover if necessary. 2. Check and if necessary replace the light barrier PCB. 3. Check and if necessary replace the display PCB.
29	ATTENTION: One electronic vernier caliper/gauge arm not in rest position.	<ol style="list-style-type: none"> 1. Set electronic vernier caliper /gauge arm to rest position. 2. Repeat calibration of electronic vernier caliper/ gauge arm.
30	Angular width gauge deactivated.	Perform calibration prior to reactivation.
31	Pedal being pressed. Deactivation takes place.	<ol style="list-style-type: none"> 1. Avoid pressing the pedal during measuring cycle; If the error message persists, contact customer service.
32	Pedal has been pressed.	<ol style="list-style-type: none"> 1. Avoid pressing the pedal during measuring cycle; If the error message persists, contact customer service.
33	Incorrect operating system	Use a different PCB.
34	Restart the system.	
38	Idioms text missing.	If the error message persists, contact customer service.
39	WINCE firmware version incorrect, for the language selected.	The language selected will be replaced by English.
40	Emergency stop.	Repeat the measuring cycle.
41	The width gauge must be calibrated.	Calibrate the width gauge.