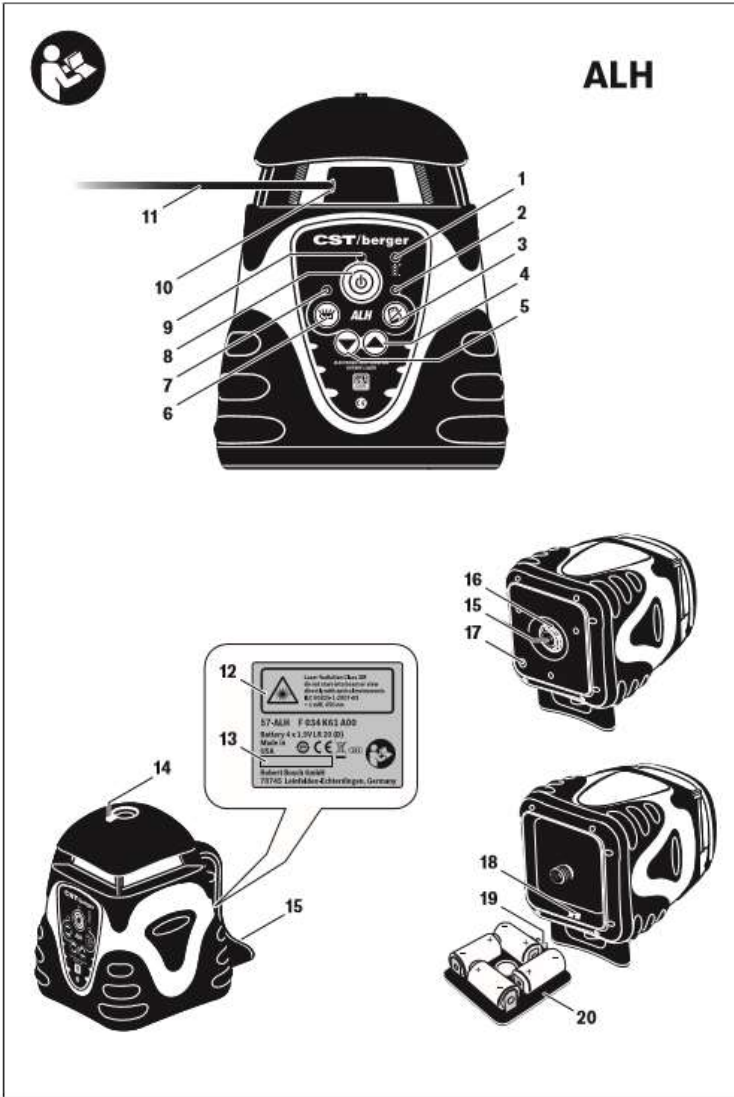
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		Revision No. 1	Approved By: S. Ditner


Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
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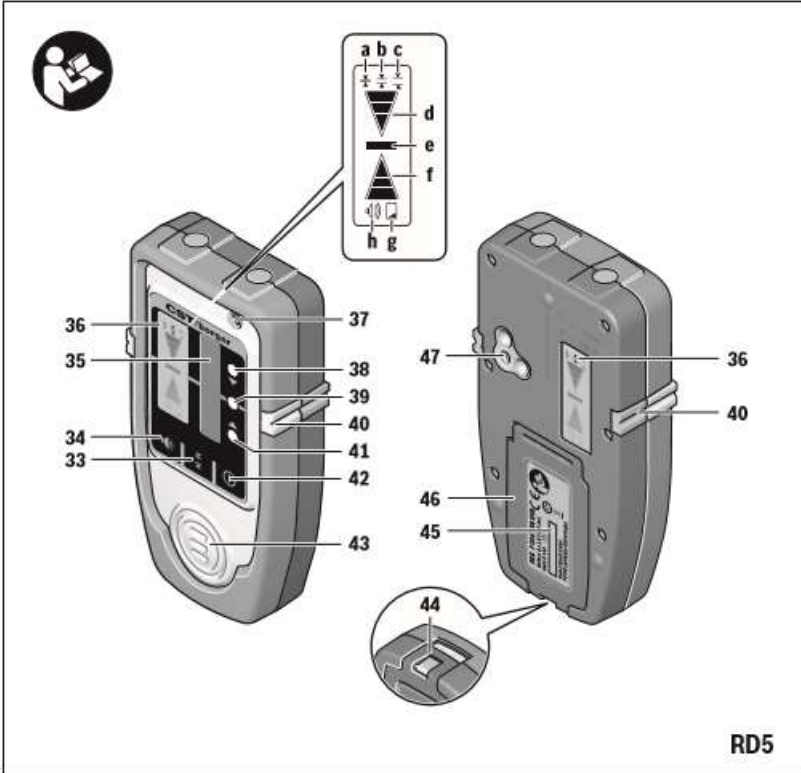
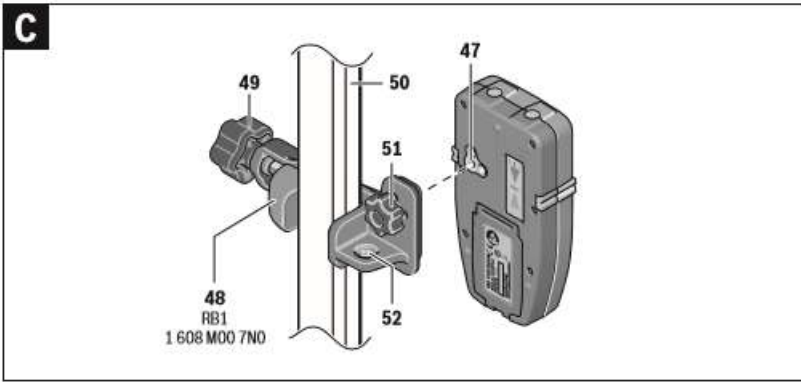
CST Berger ALH Rotary Laser Functions







1. Battery low indicator
2. Shock-warning indicator
3. Shock-warning button
4. Grade up button
5. Grade down button
6. Auto-level switch
7. Working without the automatic levelling indicator
8. On/Off button
9. Operation indicator
10. Exit opening for laser beam
11. Variable laser beam
12. Laser warning label
13. Serial number (may also be located inside the battery compartment)
14. Alignment aid
15. Tripod mount (5/8")
16. Nut for battery lid
17. Socket for charge plug
18. Contacts of the battery compartment
19. Contacts of the battery lid
20. Battery lid


NOTE: The Rotary laser and detector should always be allowed to come to room temperature before using.



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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>Detector Functions</p>  <p style="text-align: right;">RD5</p>	<p>33. Button for selecting measuring accuracy 34. Audio signal button 35. Reception area for the laser beam 36. Display 37. Sensor for the Strobe Shield function 38. Direction LED – Move Downward 39. Centre indication LED 40. Centre mark 41. Direction LED – Move Upward 42. On/Off button 43. Speaker 44. Battery lid latch 45. Serial number 46. Battery lid 47. Retainer openings for holder</p> <p>Indicator Elements:</p> <p>a. “Fine” adjustment b. “Medium” adjustment c. “Coarse” adjustment d. Direction indicator “Move downward” e. Centre indicator f. Direction indicator “Move upward” g. Battery low indicator h. Audio signal indicator</p> <p>48. Holder 49. Locking screw for holder 50. Rod (not supplied) 51. Fastening screw of holder 52. Spirit level holder</p>		
<p>C</p>  <p>48 RB1 1 608 M00 7N0</p>			


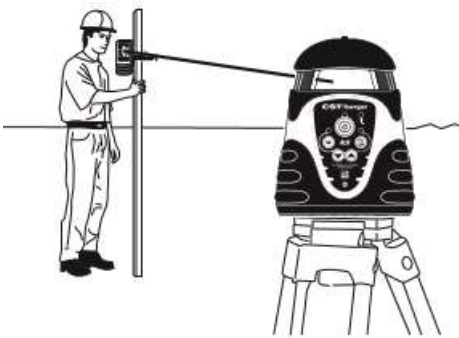

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
Calibration check			
OP100011 Step 1 	Set the laser tripod up on a piece of panel to avoid damaging the customer floor and allow better anchoring. The location must be at least 100' from a wall. Check the level of the tripod and ensure it is level. Note: Auto-levelling rotary lasers can only correct for $\pm 5^\circ$ out of level.	Rotary laser Laser tripod Laser detector Level	
OP100011 Step 2 	Mount the laser on the tripod. Give at least 30 seconds for the laser to self-level its beam.		
OP100011 Step 3 	Starting with the x-axis beam, project it onto the wall at least 100' away.		

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
OP100011 Step 4  Move Down Line Detected	Use the detector to locate the beam. The detector will show a blue light and a line once it is level with the beam.		
OP100011 Step 5 	Mark the location of the beam. Turn the detector 180° and mark this location as well.		
OP100011 Step 6	If there is a difference more than the unit accuracy, the unit should be removed from service and sent for calibration. Alternatively, you may follow the calibration procedure listed in the manual for your specific model. Inform your Service Manager. CST Rotary ALH: $\pm 0.05\text{mm/m}$ ➔ At 100 feet: 1.5 mm or 1/16"		
OP100011 Step 7	Repeat the process for the Y-axis beam as well.		

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
Using the Rotary Laser Level			
<p>OP100011 Step 8</p> 	<p>Every level will require a leveling rod for mounting the detector on.</p> <p>This rod should consist of the following:</p> <ol style="list-style-type: none"> 1. Spirit level (note, some detector mounts may have one integrated) 2. Rod clamp to hold detector 3. Non-scratching foot <p>This may be assembled from 1" square steel, a spirit level and a foot made of <>. It may be easiest to then field assemble from a new portion of steel at a job site should you require to travel.</p> <p>This rod must always be held vertically by consulting the spirit level when using to detect the level line to ensure the utmost precision.</p>		
<p>OP100011 Step 9</p> 	<p>To set your starting level:</p> <p>Place the detector on the rod, and adjust the detector height until the detector perfectly picks up the laser line.</p> <p>You will use this detector position to reference all other points to this point.</p>		
<p>OP100011 Step 10</p> 	<p>To compare level to the initial level reference:</p> <p>Place the levelling rod at the point to check. Ensure the rod is level vertically using the spirit level.</p> <p>The detector should show the perfectly level. If it shows (DOWN) then you have found a high point. If it shows (UP) you have found a low point.</p>		

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OP100011 Step 11



CHECKING THE FLOOR LEVEL:

Check the level across the floor as detailed above.

Take the following actions if you find a high or low

HIGH POINT:

Re-adjust the detector level and mark as the new high point. Continue inspecting.

LOW POINT:

Mark the point if it is considerably lower. You may need to return to determine how far out of spec the floor is in that area