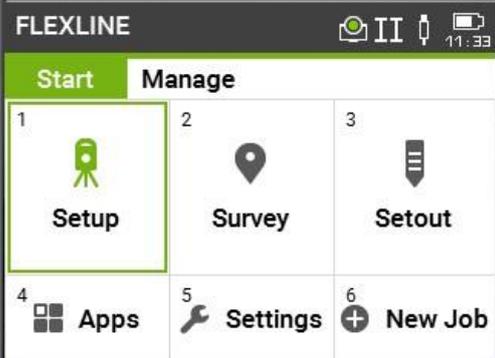
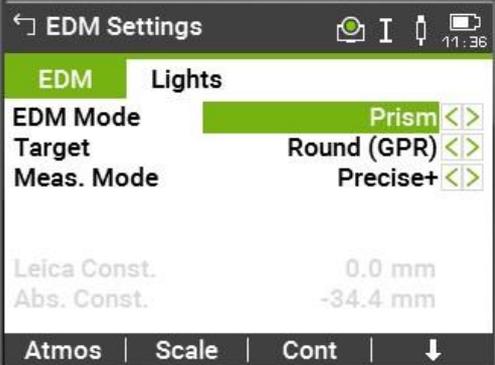
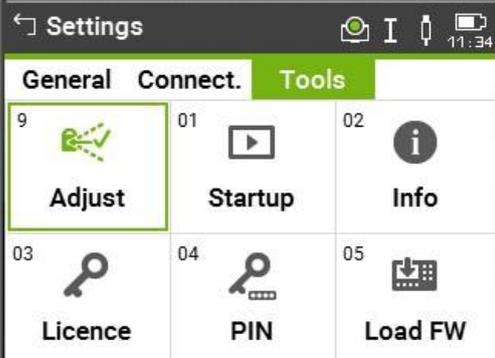
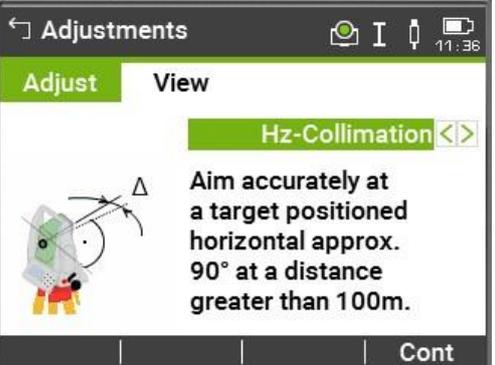


## Leica Flexfield: Check and adjust (TS03/TS07)

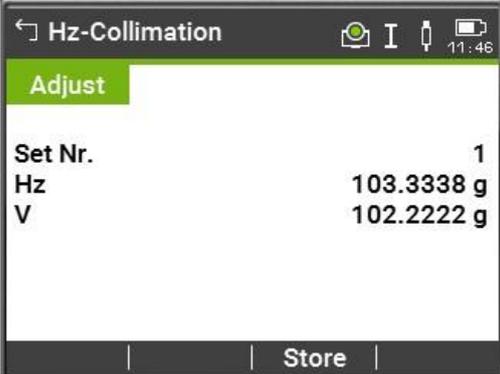
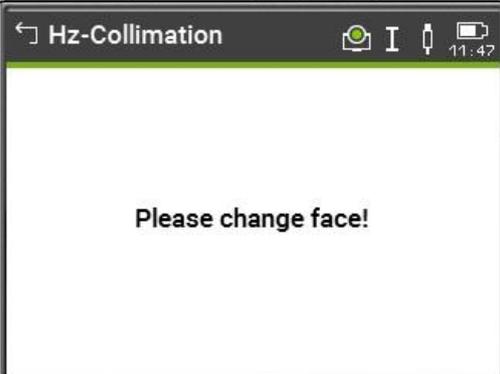
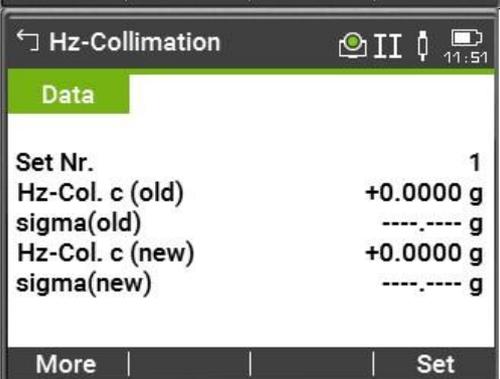
<p><b>1</b></p>	<p>Firstly, to adjust the horizontal collimation and vertical index you will need to position a Leica Round prism approx. (GPR111) 100m away from the instrument and within 5° of the horizontal. Ensure the instrument is level (give it 15 minutes to acclimatize), then go to 5) Settings</p>	
<p><b>2</b></p>	<p>Press 5 for your EDM Settings and make sure you are shooting to a Round prism in Precise+ mode.</p> <p>Press F3)Cont to confirm these then</p>	
<p><b>3</b></p>	<p>Page across to the Tools tab and select 9) Adjust</p>	
<p><b>4</b></p>	<p>Select Hz-Collimation and press F4)Cont</p>	

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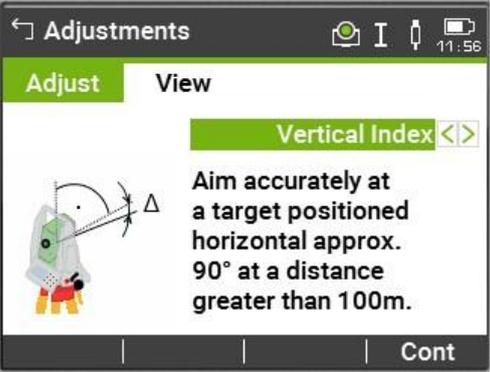
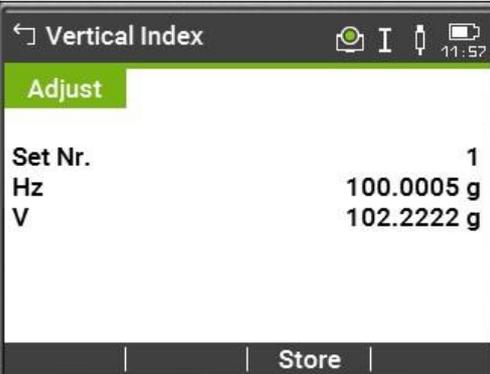
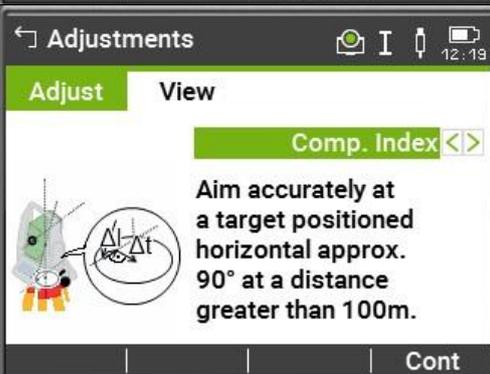
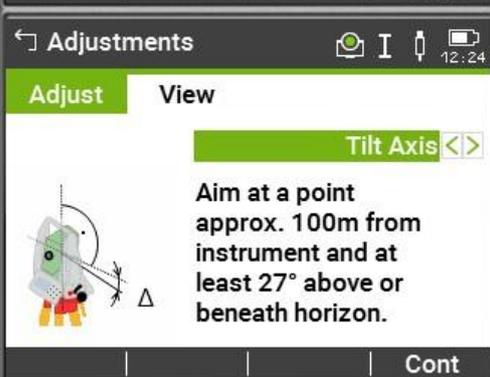
5	Aim carefully at the centre of the prism and press F3)Store. The instrument will then take a reading.	 <p>Hz-Collimation Adjust</p> <p>Set Nr. 1 Hz 103.3338 g V 102.2222 g</p> <p>Store</p>
6	You will then be asked to rotate the instrument and the telescope 180 degrees so it is in face 2.	 <p>Hz-Collimation</p> <p>Please change face!</p>
7	Aim precisely at the centre of the round prism and press F3)Store	 <p>Hz-Collimation Data</p> <p>Set Nr. 1 Hz 303.3335 g V 302.2226 g <math>\Delta</math>Hz +0.0002 g <math>\Delta</math>V -4.4448 g</p> <p>Store</p>
8	<p>You will be presented with the old values from the instrument as well as the new values we have just calculated.</p> <p>It is advised to add two more rounds of measurements before we complete the procedure so select F1)More and return the instrument to face 1</p>	 <p>Hz-Collimation Data</p> <p>Set Nr. 1 Hz-Col. c (old) +0.0000 g sigma(old) ----.---- g Hz-Col. c (new) +0.0000 g sigma(new) ----.---- g</p> <p>More Set</p>

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<p><b>9</b></p>	<p>Once we have completed three rounds of measurements press Set to accept the new values and we will be returned to the Adjust Menu.</p> <p>Change the option to the Vertical Index then press F4)Cont</p>	
<p><b>10</b></p>	<p>The procedure for adjusting the Vertical index is much the same as the Horizontal Index.</p> <p>Complete 3 rounds of measurements and set the result.</p>	
<p><b>11</b></p>	<p>The next adjustment is to the Compensator Index.</p> <p>The procedure for this is exactly the same as the previous two. Repeat the stages as before to complete the adjustment.</p>	
<p><b>12</b></p>	<p>For the final adjustment (that to the Tilt Axis) we need to change the position of the prism we are using.</p> <p>Still approx 100m away from the station we need to position the prism at least 27° above or below the horizon.</p>	

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<p><b>13</b></p>	<p>Once you have altered the prisms position the process of adjustment is repeated.</p> <p>Aim precisely at the prism and select Store to take a measurement.</p>	
<p><b>14</b></p>	<p>Rotate the total station into face 2 and repeat the measurement.</p> <p>Once you have repeated three sets of readings you can Set the results and we have completed the adjustments to the instrument.</p>	

For more information on the check and adjust procedure please consult the Leica TS03/TS07 User Manual which discusses the procedure in detail.

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