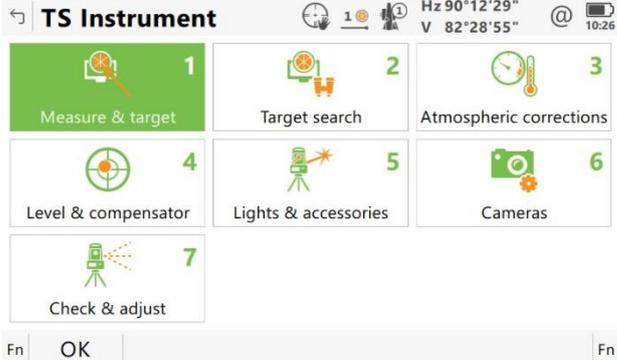
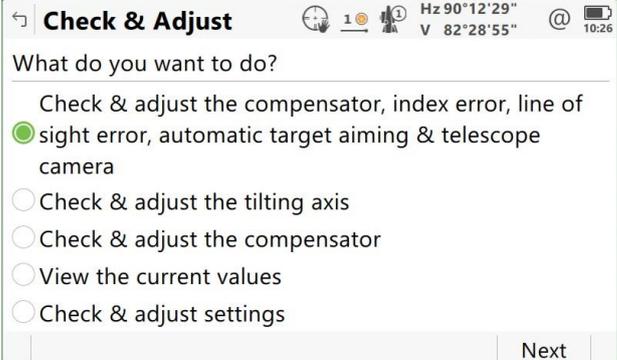


Leica Captivate: TS16 Check and Adjust

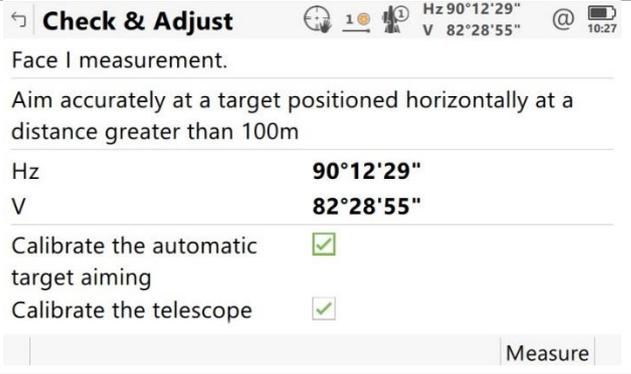
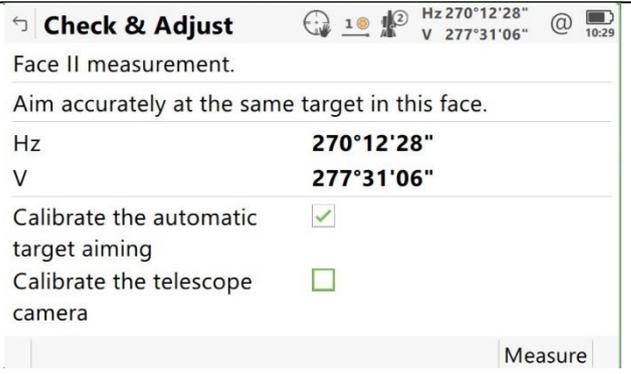
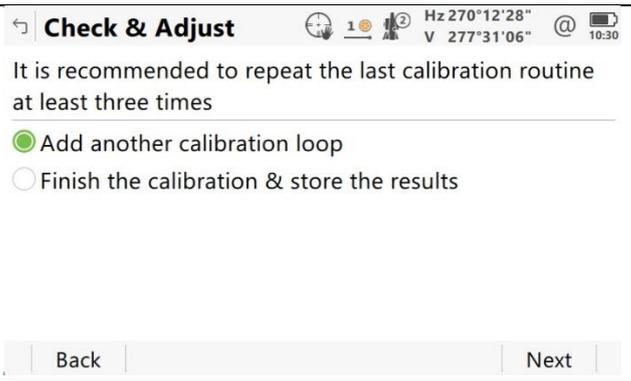
| | | |
|---|--|--|
| 1 | For the first step you will need to position a Leica Round prism approximately 100+m away from your total station at roughly the same height as your total station. | |
| 2 | Level the instrument and give it 15 minutes to adjust to the temperature outside. In the meantime, go into your Measure and target settings (Settings\TS Instrument\Measure and Target) and make sure you've selected the Leica Round Prism, the Measure mode as Single and that your target aiming is set to Manual . OK those |  |
| 3 | Then from the main menu of the instrument go to Settings\TS Instrument then Check and Adjust |  |
| 4 | Select " Check and adjust the compensator, index error... " |  |

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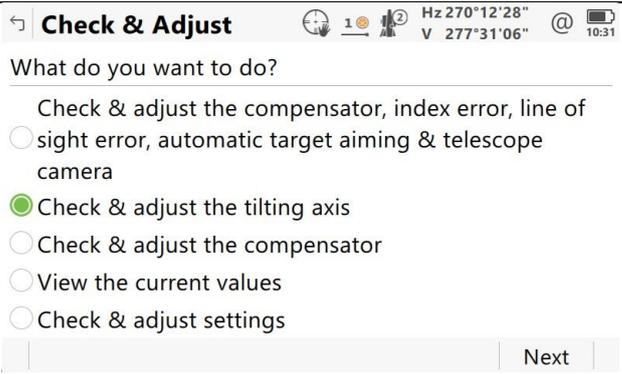
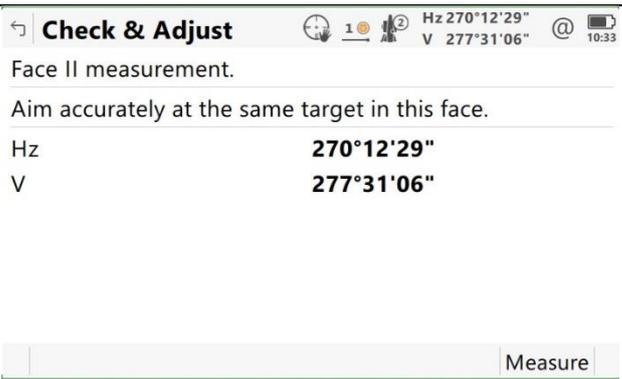
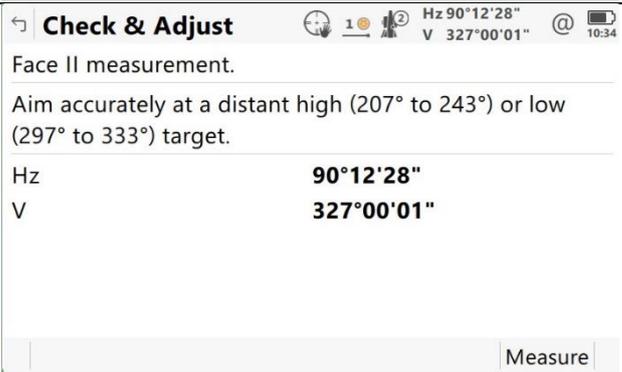
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| | | |
|-----------------|--|--|
| <p>5</p> | <p>Tick the box to calibrate the automatic target aiming (you MUST use a prism, preferably round prism). If you have an Imaging instrument you can also calibrate telescope camera. Then simply manually aim accurately at the centre of the prism and press Meas.</p> |  <p>Check & Adjust Hz 90°12'29" V 82°28'55" 10:27</p> <p>Face I measurement.</p> <p>Aim accurately at a target positioned horizontally at a distance greater than 100m</p> <p>Hz 90°12'29" V 82°28'55"</p> <p>Calibrate the automatic target aiming <input checked="" type="checkbox"/> Calibrate the telescope <input checked="" type="checkbox"/></p> <p>Measure</p> |
| <p>6</p> | <p>If the instrument is robotic it will then change to face 2 and you can manually aim at the same target and press Meas again.</p> |  <p>Check & Adjust Hz 270°12'28" V 277°31'06" 10:29</p> <p>Face II measurement.</p> <p>Aim accurately at the same target in this face.</p> <p>Hz 270°12'28" V 277°31'06"</p> <p>Calibrate the automatic target aiming <input checked="" type="checkbox"/> Calibrate the telescope camera <input type="checkbox"/></p> <p>Measure</p> |
| <p>7</p> | <p>Repeat the procedure two more times (adding another calibration loop), then finish the calibration and store the results.</p> |  <p>Check & Adjust Hz 270°12'28" V 277°31'06" 10:30</p> <p>It is recommended to repeat the last calibration routine at least three times</p> <p><input checked="" type="radio"/> Add another calibration loop <input type="radio"/> Finish the calibration & store the results</p> <p>Back Next</p> |
| <p>8</p> | <p>You will then be presented with the results of the adjustment (hopefully minimal). Then press finish to store the results.</p> |  <p>Check & Adjust Hz 270°12'29" V 277°31'06" 10:30</p> <p><input checked="" type="checkbox"/> I Component New 0°00'00" Old 0°00'00"</p> <p><input checked="" type="checkbox"/> t Component New 0°00'00" Old 0°00'00"</p> <p><input checked="" type="checkbox"/> i V-index New 0°00'00" Old 0°00'00"</p> <p><input checked="" type="checkbox"/> c Hz-collimation New 0°00'00" Old 0°00'00"</p> <p><input checked="" type="checkbox"/> ATR Hz New 0°02'10" Old 0°02'10"</p> <p>Fn Back Redo Finish Fn</p> |

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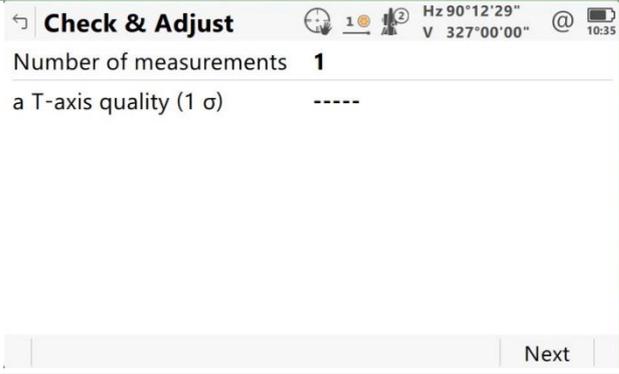
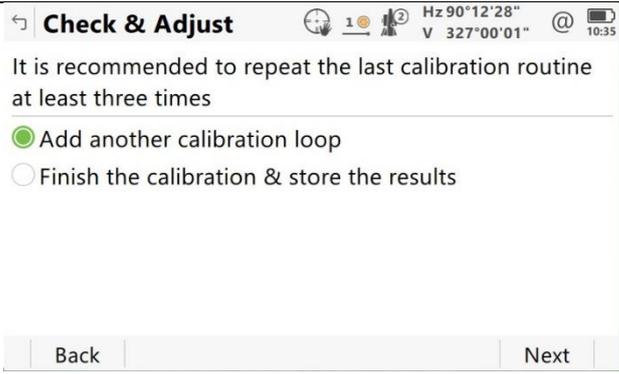
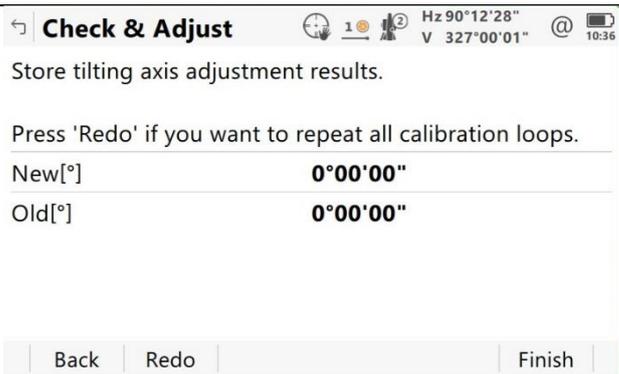
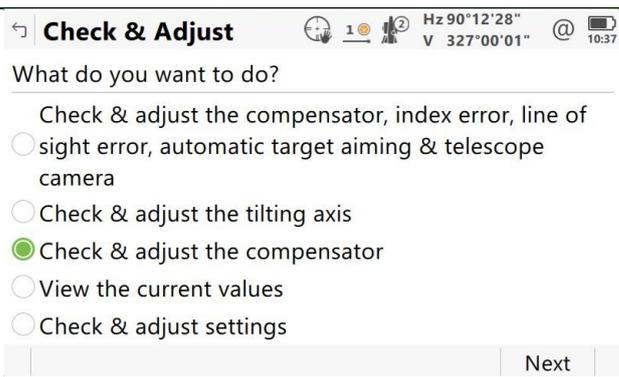
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| | | |
|----|--|---|
| 9 | Then we can check the tilting axis. For this one we need to position the prism 27° above or below the horizontal plane of the total station. | |
| 10 | Select “ Check and adjust the tilting axis ” then press Next . |  |
| 11 | Manually aim at the prism/target centre and press Meas . |  |
| 12 | Repeat in face 2. |  |

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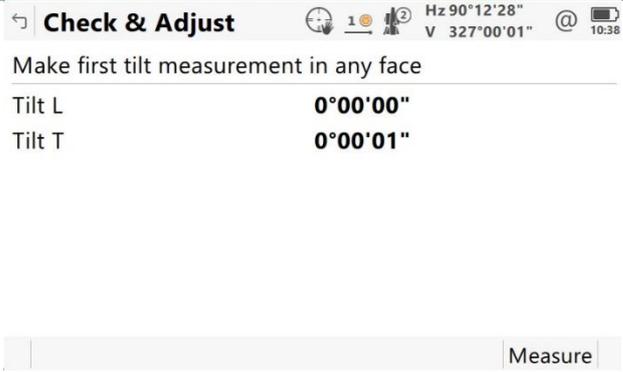
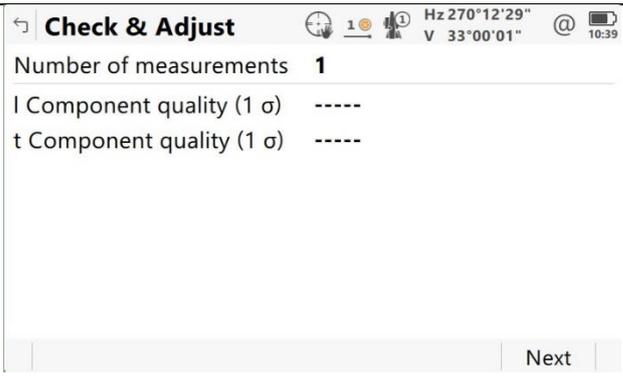
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| | | |
|----|---|--|
| 13 | Press Next at the next screen |  |
| 14 | Then repeat the procedure twice more. |  |
| 15 | Then Finish the calibration and accept the results if acceptable |  |
| 16 | You can also adjust the compensator alone. If you have completed the combined adjust (step 1) you have already adjusted the compensator and do not have to carry out this step. |  |

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| | | |
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| <p>17</p> | <p>To carry out the adjustment you do not need to aim to a prism, the instrument just needs to be level. Select Check & adjust compensator. Then aim at a specific point and press Meas.</p> |  |
| <p>18</p> | <p>If you have a robotic instrument it will turn to face 2 and you have completed 1 measurement run.</p> |  |
| <p>19</p> | <p>Repeat the run twice more then select finish to accept the new compensator values.</p> |  |

For further details on the Check and Adjust procedure please consult the Leica Captivate Technical Reference Manual which covers the subject in detail.

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