











Topcon Checks & Adjustments

1	<div>Configuration</div> <div>  1.Obs.condition </div> <div>  2.Inst.config </div> <div>  3.Customize </div> <div>  4.Comms </div> <div>  5.Inst.cons. </div>	<p>Set up the instrument on a stable tripod, level it and leave standing for at least 15 minutes to adjust to the temperature.</p> <p>From the OBS screen (standard start up screen) press ESC twice.</p> <p>Select Configuration\Inst.cons.</p>
2	<div>Instrument constants</div> <div>  1.Tilt offset </div> <div>  2.Collimation </div> <div>  3.Image Sensor-Reticle offset </div>	<p>Select Tilt Offset</p>
3	<div>Tilt offset/Obs.</div> <div>Take F1</div> <div> Tilt X 0'00" Tilt Y -0'07" ZA 100°35'00" HA-R 118°38'54" </div> <div>  OK </div>	<p>If necessary, level the instrument again until within 10" in X & Y</p> <p>Press OK - the instrument will now change faces</p>
4	<div>Tilt offset/Obs.</div> <div>Take F2</div> <div> Tilt X 0'13" Tilt Y 0'23" ZA 259°25'06" HA-R 298°39'58" </div> <div>  OK </div>	<p>Wait until the tilt values settle and press OK again</p> <p>The instrument will turn back to Face 1</p>

Sunbelt Rentals Survey

3 Orpheus House, Calleva Park, Aldermaston, Reading, RG7 8TA. 0330 678 0181 Support Number: 01293 565565

sales@sunbeltssurvey.co.uk www.sunbeltssurvey.co.uk

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5	<div> <div>Tilt offset/Result</div> <div> <div>Current</div> <div>Tilt X -0°01'04"</div> <div>Tilt Y -0°00'56"</div> <div>New</div> <div>Tilt X -0°00'30"</div> <div>Tilt Y -0°00'56"</div> </div> <div> <div>YES</div> <div>NO</div> </div> </div>	<p>The adjustment values are displayed.</p> <p>If the difference between Current and New in either X or Y is greater than 1', press NO. The instrument will need to be calibrated by a workshop.</p> <p>If the difference is less than 1' press YES to accept the new values and return to the previous screen</p>
6	<div> <div>Instrument constants</div> <div> <div>1.Tilt offset</div> <div>2.Collimation</div> <div>3.Image Sensor-Reticle offset</div> </div> </div>	<p>Select Collimation</p>
7	<div> <div>Collimation/Obs.</div> <div>Take F1</div> <div> <div>ZA 265°30'14"</div> <div>HA-R 118°43'33"</div> <div>OK</div> </div> </div>	<p>Ensure the instrument is level sight onto a target as far away as possible and horizontal to the instrument (ideally 100m away and no more than $\pm 10^\circ$ from horizontal)</p> <p>Press OK – the instrument will now turn to Face 2</p>
8	<div> <div>Collimation/Obs.</div> <div>Take F2</div> <div> <div>ZA 82°12'20"</div> <div>HA-R 298°43'45"</div> <div>OK</div> </div> </div>	<p>Carefully sight onto the target again and press OK</p>

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9	<div> <div>Collimation/Result</div> <div>EL</div> <div>V Offset</div> <div>0°00'07"</div> <div>0°00'00"</div> <div>  YES  NO </div> </div>	<p>Your results will be shown. If acceptable, press YES</p> <p>If the values are very high click NO and start the process again</p> <p>If the values continue to be large or you get a failure message the instrument will need to be calibrated by a service centre</p>
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