

Topcon Checks & Adjustments

1	<p>Configuration</p> <ul style="list-style-type: none">  1.Obs.condition  2.Inst.config  3.Customize  4.Comms  5.Inst.cons. 	<p>Set up the instrument on a stable tripod, level it and leave standing for at least 15 minutes to adjust to the temperature. From the OBS screen (standard start up screen) press ESC twice. Select Configuration\Inst.cons.</p>
2	<p>Instrument constants</p> <ul style="list-style-type: none">  1.Tilt offset  2.Collimation  3.Image Sensor-Reticle offset 	<p>Select Tilt Offset</p>
3	<p>Tilt offset/Obs.</p> <p>Take F1</p> <p>Tilt X 0'00"</p> <p>Tilt Y -0'07"</p> <p>ZA 100°35'00"</p> <p>HA-R 118°38'54"</p> <p style="text-align: center;"> OK</p>	<p>If necessary, level the instrument again until within 10" in X & Y Press OK - the instrument will now change faces</p>
4	<p>Tilt offset/Obs.</p> <p>Take F2</p> <p>Tilt X 0'13"</p> <p>Tilt Y 0'23"</p> <p>ZA 259°25'06"</p> <p>HA-R 298°39'58"</p> <p style="text-align: center;"> OK</p>	<p>Wait until the tilt values settle and press OK again The instrument will turn back to Face 1</p>

Sunbelt Rentals Survey

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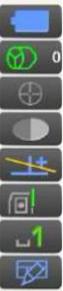
5	<p>Tilt offset/Result</p> <p>Current Tilt X -0°01'04" Tilt Y -0°00'56"</p> <p>New Tilt X -0°00'30" Tilt Y -0°00'56"</p> <p> YES  NO</p>	<p>The adjustment values are displayed. If the difference between Current and New in either X or Y is greater than 1', press NO. The instrument will need to be calibrated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

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<p>9</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Collimation/Result</p> <p>EL 0°00'07"</p> <p>V Offset 0°00'00"</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>YES</p> </div> <div style="text-align: center;">  <p>NO</p> </div> </div> <div style="float: right; margin-top: 10px;">  </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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