

# Chapter 2 - Check & Adjust

## Introduction

The Check & Adjust routines provide you with an easy and structured procedure for correcting line of sight errors.

## Program notes

There are four procedures that are available on the DNA levels. Two methods, A x x B and A x B x. Each of these methods have two different procedures that can be used to determine the line of sight error.

For diagrams of each of the procedures please reference the User's manual or the Field manual.

Step	Action	Display
1	<p>From the "Meas &amp; Rec" screen:</p> <ul style="list-style-type: none"> <li>Press the <b>PROG</b> button.</li> <li>Select <b>3 CHECK &amp; ADJUST</b> and press the <b>ENTER</b> button.</li> </ul> <p>This takes you to the "CHECK &amp; ADJUST" screen.</p>	<pre> PROGRAMS ----- 1 MEASURE ONLY 2 LINE LEVELLING 3 CHECK &amp; ADJUST &lt;QUIT&gt; </pre>
2	<p>From the "CHECK &amp; ADJUST" screen:</p> <ul style="list-style-type: none"> <li>Highlight <b>1 Set Job</b> and press the <b>ENTER</b> button.</li> </ul> <p>You will either need to select an existing job or create a new job, as we do in this example.</p> <ul style="list-style-type: none"> <li>Enter the job name and any additional information in the fields you require.</li> <li>Highlight <b>&lt;SET&gt;</b> and press the <b>ENTER</b> button.</li> </ul> <p>This takes you back to the "CHECK &amp; ADJUST" screen.</p>	<pre> CHECK &amp; ADJUST ----- [ ] 1 Set Job [ ] 2 Set Method     3 Start &lt;QUIT&gt; </pre>

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## Check & Adjust, Continued

Step	Action	Display
3	<p>Continuing in the "CHECK &amp; ADJUST" screen:</p> <ul style="list-style-type: none"> <li>Highlight <b>2 Set Method</b> and press the <b>ENTER</b> button.</li> </ul> <p>This takes you to the "SELECT METHOD" screen.</p>	<pre> CHECK &amp; ADJUST ----- [+] 1 Set Job [ ] 2 Set Method     3 Start  &lt;QUIT&gt;           </pre>
4	<p>In the "SELECT METHOD" screen:</p> <ul style="list-style-type: none"> <li>Select a method using the left and right arrows to display the available selections.</li> <li>Highlight <b>&lt;SET&gt;</b> and press the <b>ENTER</b> button.</li> </ul> <p>This takes you back to the "CHECK &amp; ADJUST" screen.</p>	<pre> SELECT METHOD ----- Method:      A x x B&lt;  Stf1:        ----- Stf2:        -----  &lt;QUIT&gt;                                &lt;SET&gt;           </pre>
5	<p>Continuing in the "CHECK &amp; ADJUST" screen:</p> <ul style="list-style-type: none"> <li>Highlight <b>3 Start</b> and press the <b>ENTER</b> button.</li> <li>Follow the instructions on the screen as to the location of the instrument setup for the first measurement.</li> <li>Highlight <b>&lt;OK&gt;</b> and press the <b>ENTER</b> button.</li> </ul> <p>This takes you to the "CHECK &amp; ADJUST A x B" screen.</p>	<pre> CHECK &amp; ADJUST -----  Set instrument to station 1 (X) !  A   X   .   B                                  &lt;OK&gt;           </pre>

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## Check & Adjust, Continued

Step	Action	Display
6	<p>In the "CHECK &amp; ADJUST A x B" screen:</p> <ul style="list-style-type: none"> <li>With your instrument located at Station 1, aim at the "A" rod 15-20m away and press the <b>MEAS</b> button.</li> <li>Highlight <b>&lt;CONT&gt;</b> and press the <b>ENTER</b> button.</li> </ul>	<pre> CHECK &amp; ADJUST  A x  B -----           Station 1        A1  :           1.5000 m EC Dist:           20.00 m  &lt;QUIT&gt;                <b>&lt;CONT&gt;</b> </pre>
7	<p>Continuing in the "CHECK &amp; ADJUST A x B" screen:</p> <ul style="list-style-type: none"> <li>With the instrument still at Station 1, aim at the "B" rod 30-40m away and press the <b>MEAS</b> button.</li> <li>Highlight <b>&lt;CONT&gt;</b> and press the <b>ENTER</b> button.</li> </ul>	<pre> CHECK &amp; ADJUST  A x  B -----           Station 1        A1  :           1.5000 m EC Dist:           20.00 m B1  :           1.7000 m Dist:           40.00 m  &lt;QUIT&gt;                <b>&lt;CONT&gt;</b> </pre>
8	<p>Follow the on screen instructions and move your instrument setup to Station 2.</p> <ul style="list-style-type: none"> <li>Highlight <b>&lt;OK&gt;</b> and press the <b>ENTER</b> button to continue.</li> </ul> <p>This takes you to the "CHECK &amp; ADJUST A x B screen".</p>	<pre>           CHECK &amp; ADJUST           -----           Set instrument to           station 2 (x) !           A . x B                                       <b>&lt;OK&gt;</b> </pre>

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## Check & Adjust, Continued

Step	Action	Display
9	<p>In the "CHECK &amp; ADJUST A x B" screen:</p> <ul style="list-style-type: none"> <li>With your instrument located at Station 2, aim at the "B" rod 15-20m away and press the <b>MEAS</b> button.</li> <li>Highlight <b>&lt;CONT&gt;</b> and press the <b>ENTER</b> button.</li> </ul>	<pre> CHECK &amp; ADJUST  A  X B -----           Station 2        B2  :           1.7000 m EC Dist:           20.00 m  &lt;QUIT&gt;                &lt;CONT&gt; </pre>
10	<p>Continuing in the "CHECK &amp; ADJUST A x B" screen:</p> <ul style="list-style-type: none"> <li>With the instrument still at Station 2, aim at the "A" rod 30-40m away and press the <b>MEAS</b> button.</li> <li>Highlight <b>&lt;CONT&gt;</b> and press the <b>ENTER</b> button.</li> </ul> <p>This takes you to the "CHECK &amp; ADJUST" results screen.</p>	<pre> CHECK &amp; ADJUST  A  X B -----           Station 2        B2  :           1.7000 m EC Dist:           20.00 m A2  :           1.5000 m Dist:           40.00 m  &lt;QUIT&gt;                &lt;CONT&gt; </pre>
11	<p>In the "CHECK &amp; ADJUST" screen:</p> <p>If you are satisfied with the results,</p> <ul style="list-style-type: none"> <li>Highlight <b>&lt;SET&gt;</b> and press the <b>ENTER</b> button.</li> </ul> <p>Message "New collimation set." will appear.</p> <p>Otherwise,</p> <ul style="list-style-type: none"> <li>Highlight <b>&lt;QUIT&gt;</b> and press the <b>ENTER</b> button to not accept the correction and start over.</li> </ul> <p>This will advance you to the "MEAS &amp; REC" screen.</p>	<pre>           CHECK &amp; ADJUST           ----- Coll.err .old:    12.5 " Coll.err .new:   12.5 " Difference  :     0.0 " Reticle   :     1.5000 m  &lt;QUIT&gt;                &lt;SET&gt; </pre>