EQUIPMENT ADJUSTMENT AND CALIBRATION

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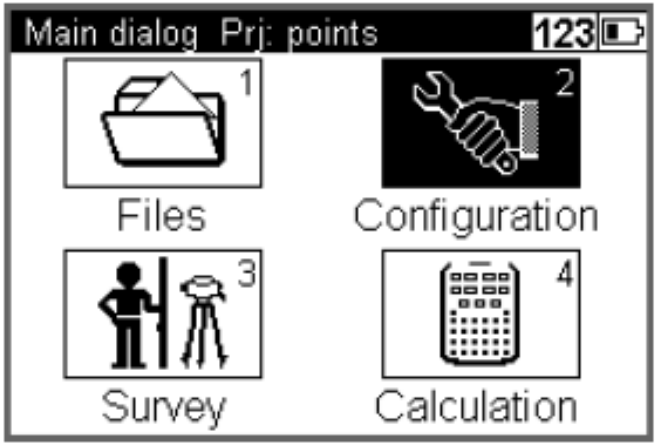
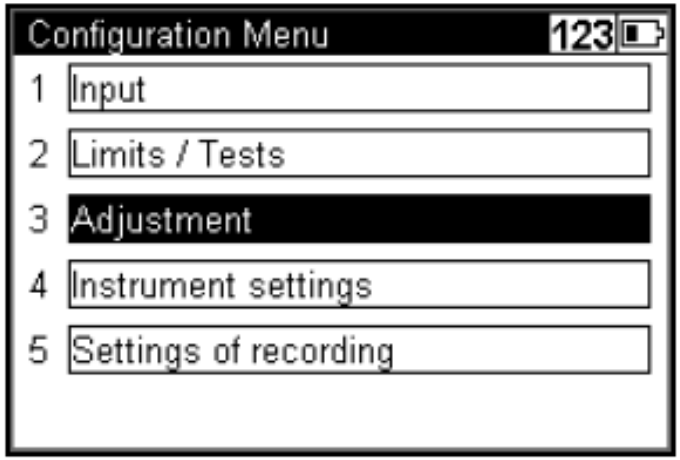
Hardware Description

ADJUSTMENT FUNCTION

Select Configuration from the Main Dialog



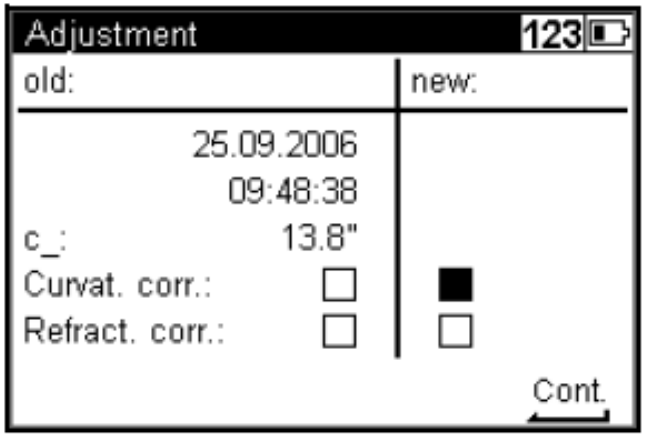
Select Adjustment from the Configuration menu.



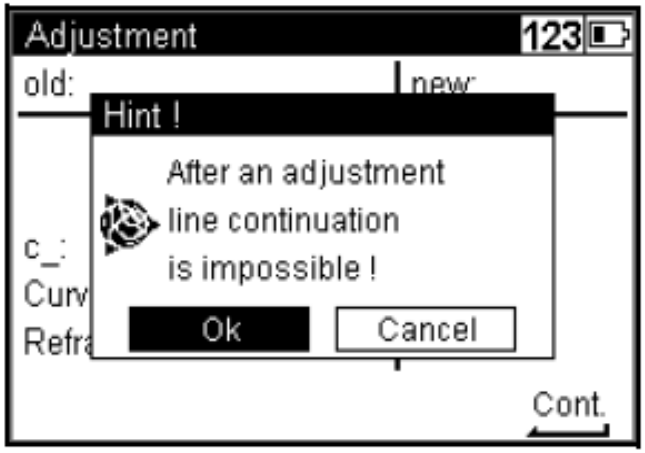
The old adjustment value and information are displayed.

Select Curvature and refraction correction on or off during adjustment.

Press ↵ enter to continue

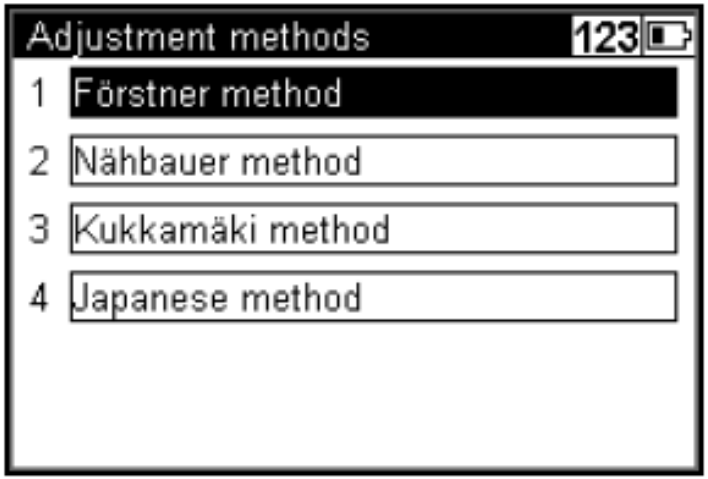


Press Ok to continue or Cancel to abort the adjustment



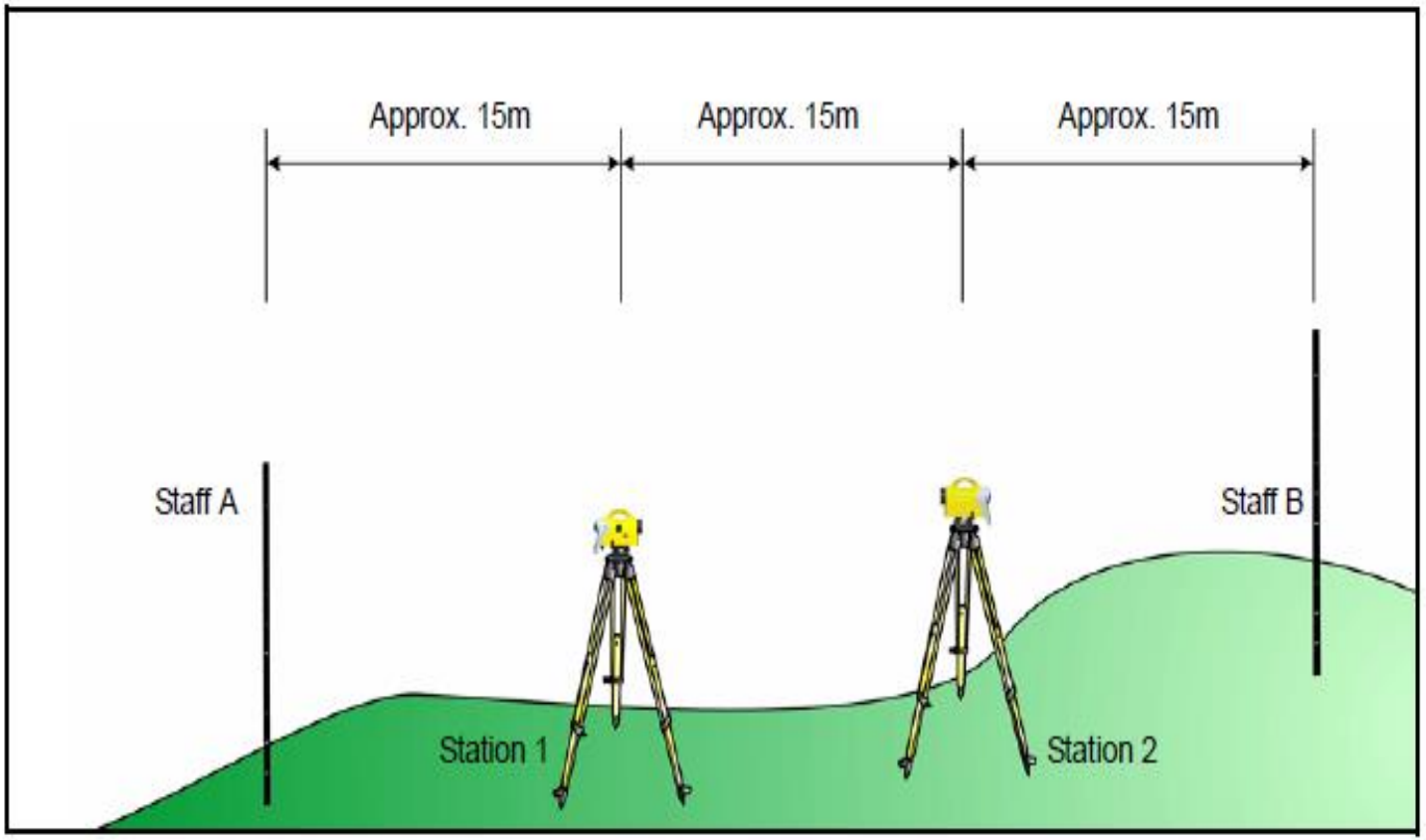
***Note** – After an adjustment is made line continuation is impossible.*

Select the adjustment method and press ↵ enter to continue



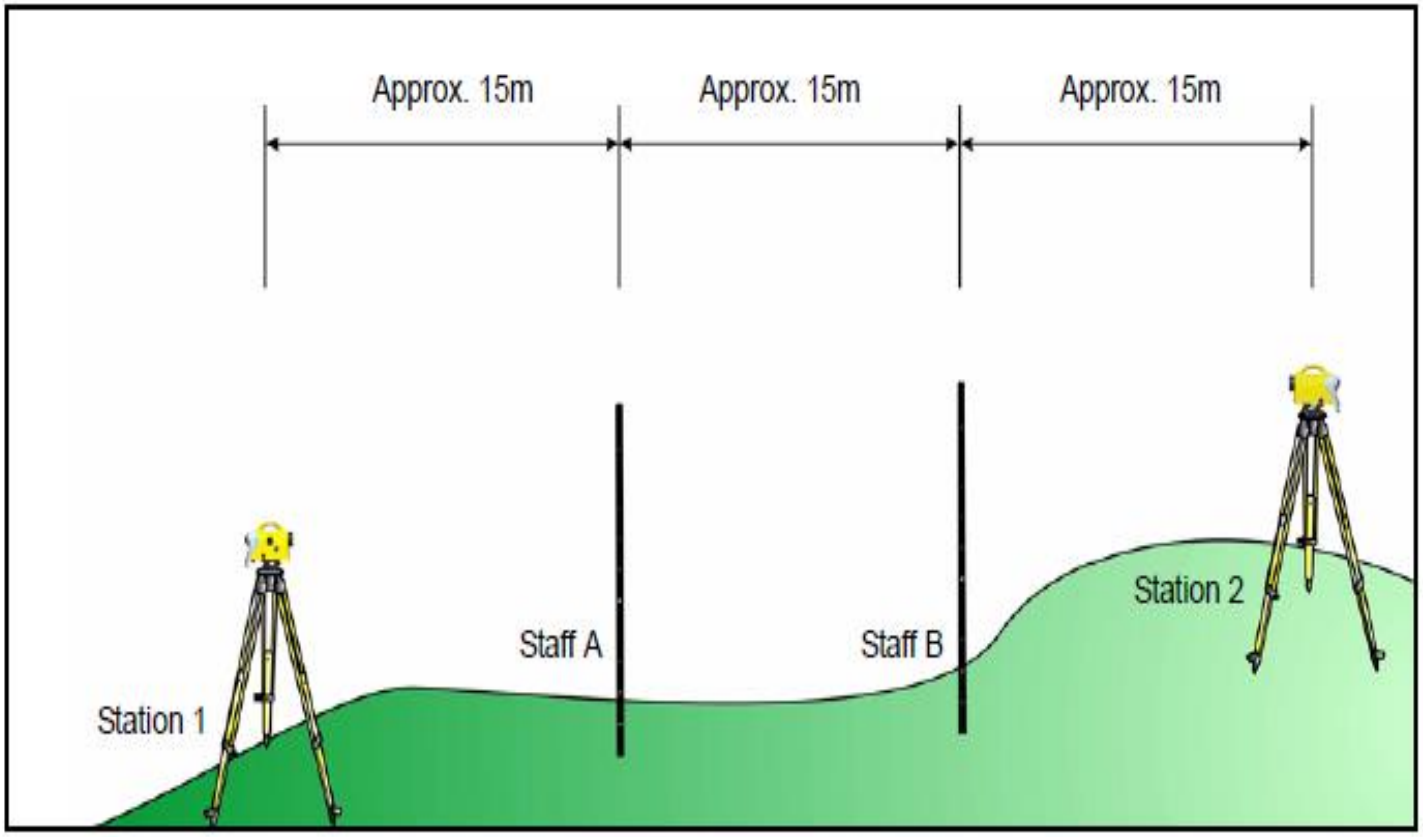
FORSTNER METHOD

Setup two rods (A,B) roughly 45m apart. Define instrument stations (1,2) about 15m away from the rods on the connecting line between them. Measure both rod from each station.



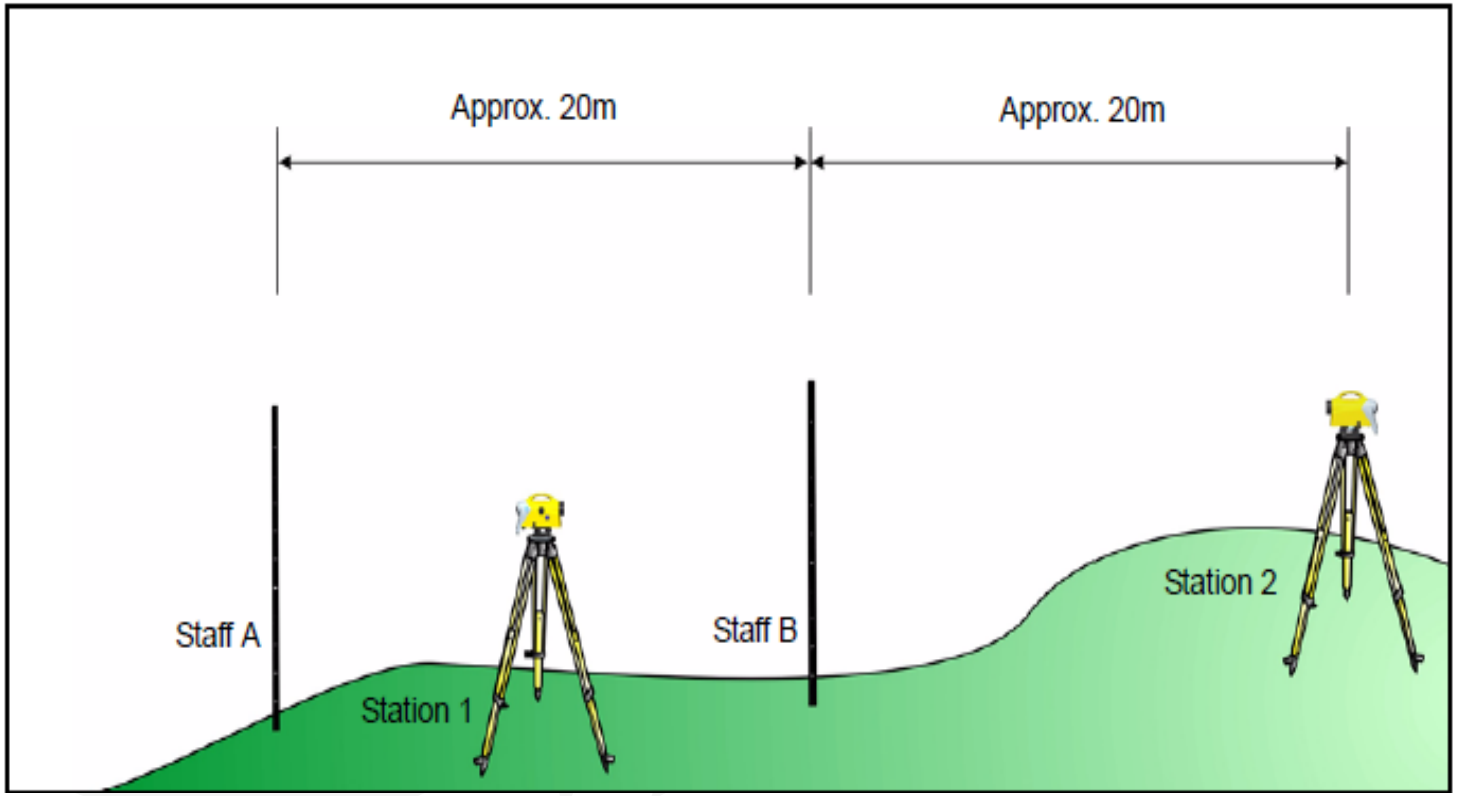
NABAUER METHOD

Setup the instrument (1,2) at the end and place the two rods approximately 15m from both end.



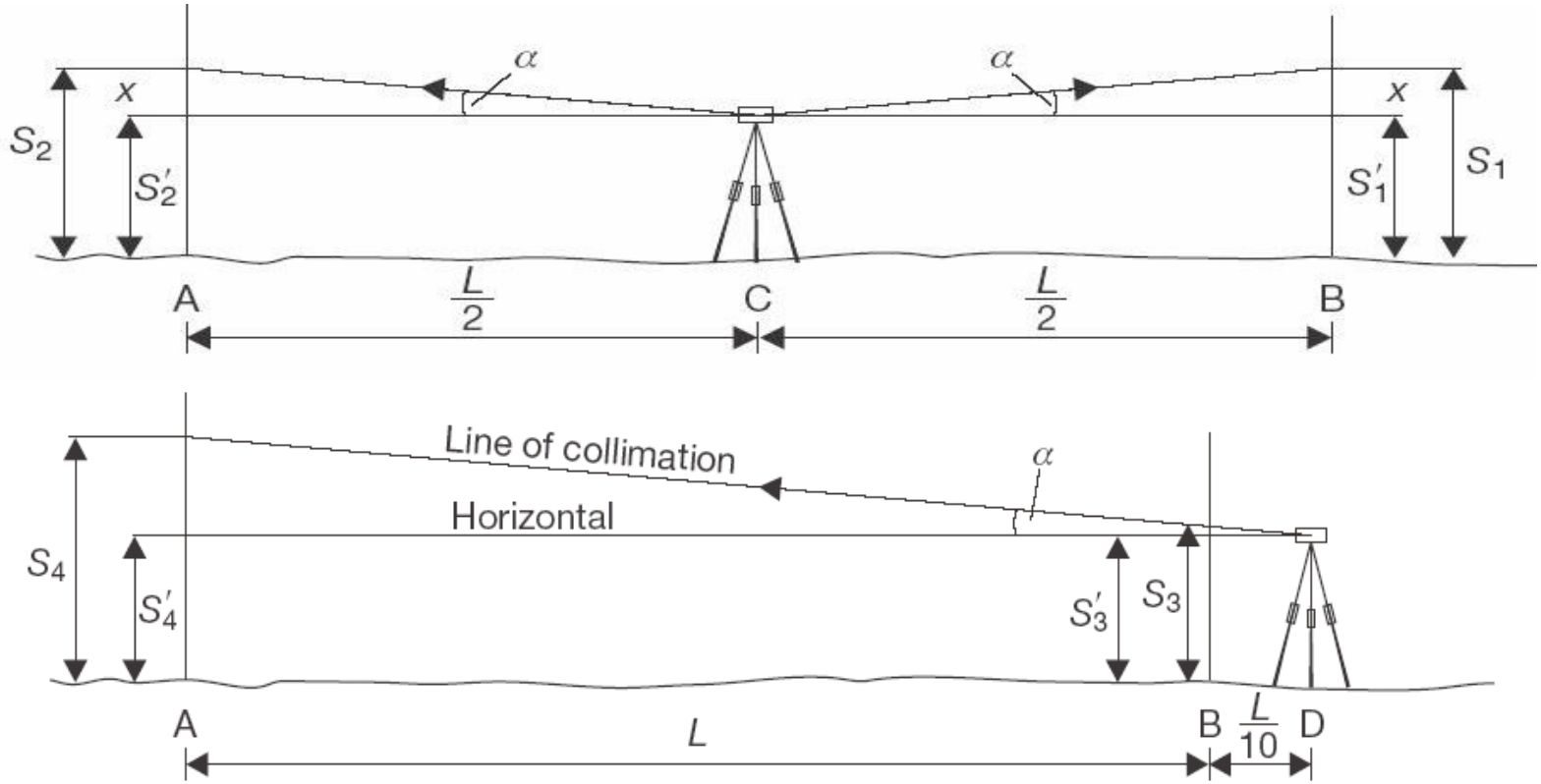
KUKKAMAKI METHOD

Setup 2 rods (A,B) roughly 20m apart. First, measure the rods from station 1 that located at the middle between 2 rods. Repeat Measurement from station 2 which is located at 20m from either rods.



JAPANESE METHOD

Setup 2 rods (A,B) roughly 30m apart. First, measure the rods from station 1 that located at the middle between 2 rods. Repeat measurement from station 2 which is located at 3m from either rods.



PROCEDURE

Global-trak Systems

1. Set up the tripod.

2. Place the level on the tripod and carry out temporary adjustment to the level.

3. Temporary adjustment:-
   - Setting up: to fit the level on the tripod.
   - Leveling: to make the level line perpendicular to the vertical line.
   - Focusing: to adjust the telescope for clear sighting.

4. Balance the bubble of the level.

5. Measure the length using tape and mark the length of set up properly.

6. Put the staff at both marking point.

7. Balance the staff using bubble.

8. Determine the reading of BS and FS.

9. Try to keep the backsights and foresights equal in length.

10. After that remove the tripod and the level to the outside of both staff in a certain length from the fore staf

11. Record the measurement in the field book.