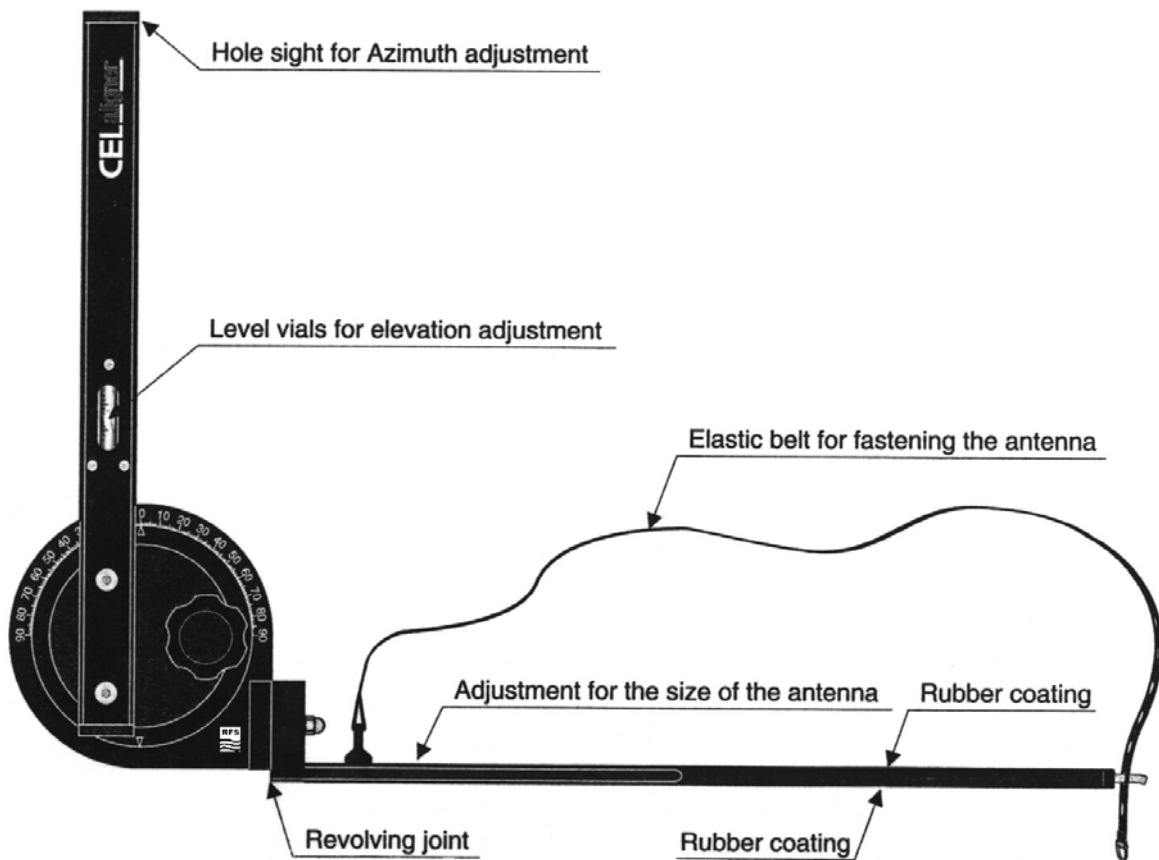


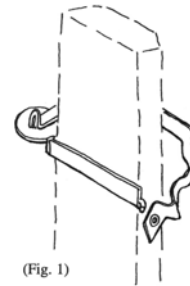
# CELaligner

The **CELaligner**® is a dual function tool for alignment of panel antennas. It can be used for adjusting both the elevation (downtilt) and the azimuth. The **CELaligner**® is supplied in a handy carrier bag, to wear round the shoulder, when climbing an antenna mast or tower.



## Easy to Fasten

The **CELaligner®** is equipped with an elastic belt for easy fastening on the antenna, and for hands free operation, thus assuring optimized security when working up in the mast with panel antennas and **CELaligner®**. (Fig. 1)

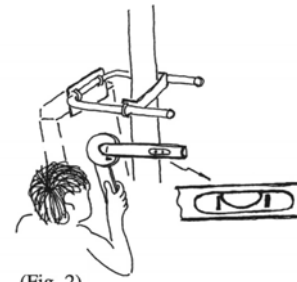


(Fig. 1)

## Elevation

The built-in level vial helps you to precisely set the elevation of the antenna. (Fig. 2)

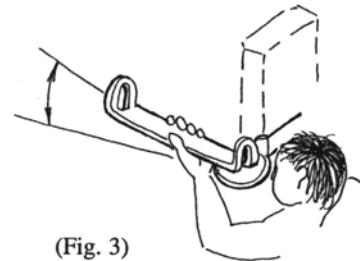
1. Adjust to required elevation angle on the graduated arc.
2. Place the **CELaligner®** on the rear side of the antenna.
3. Tilt the antenna until the vial is in level.



(Fig. 2)

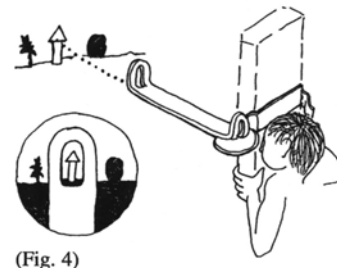
## Azimuth

Having found a reference point on a map and hereafter determined the offset from the reference point to the decided direction, you adjust the angle on the graduated arc located on the **CELaligner®**. (Fig. 3)



(Fig. 3)

When having fastened the **CELaligner®** to the panel antenna, it is time for adjusting the direction of the antenna by using the tracking sight. (Fig. 4)

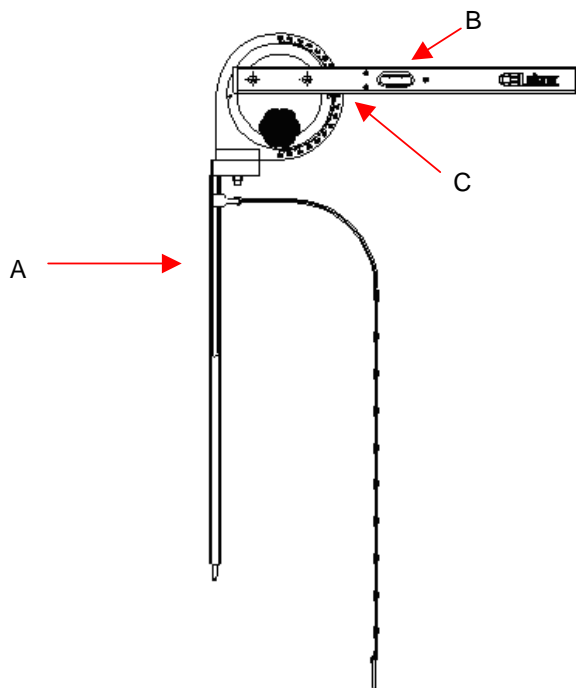


(Fig. 4)

## Adjustment Guideline

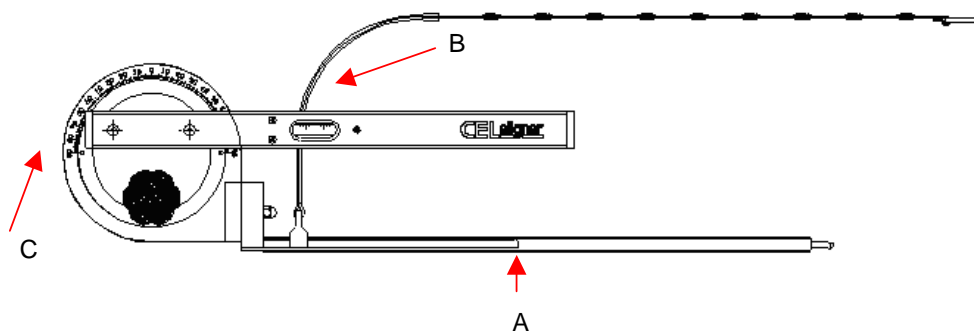
1. Find reference point on map in horizon (e.g. church tower).
2. Determine offset (degrees) from reference point to required beam direction.
3. Adjust the angle on graduated arc on the **CELaligner®** (offset).
4. Mount the **CELaligner®** on the panel antenna. Adjust the antenna by using the tracking sight.

**Vertical Calibration**



- Step 1: Press the aligning rod (A) against a perfectly vertical wall
- Step 2: Follow normal aligning procedure until the bubble of the spirit level is centered.
- Step 3: The scale should now be pointing at zero degrees.

**Horizontal Calibration**



- Step 4: Place the aligning rod (A) against a perfectly horizontal plane.
- Step 5: Follow normal aligning procedure until the bubble of the spirit level (B) is centred.
- Step 6: The scale (C) should now be pointing at 90 degrees.
- Step 7: If the statements in step 3 and 6 are not true then the CELaligner® is out of order and should not be used.

The CELaligner® should be calibrated once every 12 months.