FIELD CALIBRATION PROCEDURES

PCS-515 ETS
VERTICAL ANGLE, X & Y AXIS

NOTE: ***The following mechanical adjustments must be checked (and corrected if necessary) prior to the electronic adjustment adjustment of any axis.***

- ***Perpendicularity of Plate Vial to Vertical Axis***
- ***Perpendicularity of Line of Sight to Horizontal Axis***

“Info from instruction manual for vial and LOS”

1 AXIS 2 (Also calibrates Axis 1)
[Vertical 0 point offset, X axis compensator and Y axis compensator].

NOTE: ***The instrument must NOT be in direct sun light (cloud cover or under umbrella is OK).***
Atmospheric conditions must be very good (no heat waves etc.)

1.A This procedure requires a point which can be sighted to with an accuracy of 1". It needs to be near a vertical angle of 90°.

1.B Procedure start

1.B1 While pressing ← and ↑, turn the power ON.

COMP SET SET B ON/OFF : ON OFF

1.B2 Use the ← key to move the cursor to "ON" and press the OK key.

COMP SET B COMP AXIS: 2 1

1.B3 Use the → key to move the cursor to "2" and press the OK key.

ANG OFFSET TURN TELESCOPE ↑↓

1.B4 Turn telescope up and down.

STEP 1 OFFSET

1.C Align the reticle (pay particular attention to the horizontal reticle line) on the point with the telescope in the normal position. Wait 5 seconds and press the "0 SET" key.

NOTE: ***Reticle alignment must be precise.***

STEP 1 OFFSET PLEASE WAIT	5“ later ⟶	STEP 2 OFFSET

WARNING: Do not touch the instrument while “waiting”.

WARNING: Do not use the lower horizontal tangent assembly during these procedures.

1.D Release the upper horizontal tangent assembly and rotate the alidade 180°. Release the vertical tangent assembly and rotate the telescope 180°. Align the reticle on the pont.

Wait 5 seconds and press the “0 SET” key.

STEP 2 OFFSET PLEASE WAIT

TILT C:	0° 00’ 009”
TILT E	0° 00’ 038”
V ANG	1° 04’ 070”

2.E Press the “0K” key to store the values.

Display returns to Mode A.