

PRECISION GEOMATICS LIMITED

SETTING OUT FUNCTION ON SET 6F

Set the Key Selection under the S-O mode to the following layout by going into Config, and then Key Selection:

Stn_P	BSang	SO_P	P2
SO_D	SO_HA	SO_HD	P3
COORD	HT/RESEC	^SHV	P1

Procedure:

1. Switch on instrument and initialise.
2. Go to S-O mode.
3. Press Stn_P and input co-ordinates of the Set up Station.
4. Press BSang, select BSP, and input co-ordinates of the Reference or Back Station. Obs? Yes to calculate the back bearing. Enter.
5. Press SO_P and input co-ordinates of the point to be set out.
6. Press SO_D, this calculates the distance to be set out.
7. Press SO_HA to display the dHA to turn off on the instrument, negative turn anti-clockwise, positive turn clockwise.

8. Place prism on line at approximately the correct distance and then press SO_HD. This will calculate how much forward or back to move the prism to obtain the correct position.
9. To check the point is correct press COORD to give the co-ordinates of the point set out. Check this agrees with the required co-ordinates.

If data is entered into the memory when co-ordinates are needed to be entered for Stn P, BSPoint or SO_P they can be obtained by pressing READ at the bottom of the relevant menu, and selecting the correct point number.

As an Example use the following data as a check:

Stn P	input	E 100.000
		N 100.000
BSang	BS P	input
		E 110.000
		N 110.000
SO_P	input	E 100.000
		N 110.000

Then SO_D equals 10.000m
and the SO_HA equals - 45° 00' 00''