

SETTING OUT WITH TOPCON 600 SERIES

Power on

Select F1 – PROGRAMS

Select F1 – STDSVY

<Enter> JOB

NEW JOB / OPEN JOB

After opening or creating a new job

Scroll across using arrow keys to PROG

Select SET OUT <Enter>

Select OCC PT <Enter>

Input Occupied Point number, Instrument Height and Point Code.

Enter Occupied Point NEZ

*(N.B. if the occ/pt number has been stored in the memory, you will not be prompted for this information - see '**INPUT/EDIT OF POINTS**')*

Select BKS PT <Enter>

Input Backsight Point number, NEZ and Point Code.

*(N.B. if the bks/pt number has been stored in the memory, you will not be prompted for this information - see '**INPUT/EDIT OF POINTS**')*

<Set> Bearing

Sight prism and press <Enter>

Select POINTS

Screen displays FIND NEAREST POINT?

Select <OK> to locate point nearest to instrument or <CANCEL> to input specific point.

Input Point Number required and instrument height.

Input NEZ (if not already stored)

Displayed screen allows ANGULAR offsets or DISTANCE offset (select either with F3)

Select F4 CRS (course mode to 2d.p. 10mm) or FINE (fine mode to 3d.p. 1mm)

Select F5 SINGL (single measurement) or TRACK (continuous measurement)

Press F6 MEAS key to take a measurement

Press <Enter> to proceed to next point.

N.B. distance offsets are positive away from or to the right of the instrument.

SCREEN TWO – graphic display

△ instrument □ point to set out

○ prism position in relation to instrument

RESECTION

After opening or creating a new job
Scroll across using arrow keys to PROG (F2 or F3)
Select SET OUT <Enter>
Select OCC PT <Enter>

Select F6 'P2'
Select F4 'RSCT'
Select F6 'PARAM' and ensure all 'ON' except 'Calculate Scale' and 'Store Calc Scale'

Select F4 'ADD'
Select F5 'MODE' – ensure measuring H/V/SD
Input first known point and prism height.
Press F6 'MODE' to change measurement mode e.g. course to fine
Press <ENTER> to take a measurement (pressing F5 'MEAS' will not record measurement for Resection purposes)

Repeat for second point.

Residuals will be displayed on screen. Press <Enter>.

New Occupied Point NEZ will be displayed – select <Enter> throughout screen.
Select 'SET OUT' – 'POINTS' and continue as directed in standard set out procedures.

INPUT/EDIT OF POINTS

After power on

Select F1 – PROGRAMS
Select F1 – STD SVY

F1 <Enter> JOB
NEW JOB / OPEN JOB

Scroll across using arrow keys to EDIT when job created or opened
Select POINTS

Enter Point Number, NEZ and Point Code and <Enter>
At 'TYPE OF POINT?' prompt, select F5 <NEZ>

Select F6 'P2' and press F5 'COPY' key to copy point to FIXED POINT LIBRARY.

FIXED POINT LIBRARY

Allows storage of commonly used points e.g. control stations, and can be accessed by any jobs when the <STN FILE> option is <ON> (First menu SYSTEM OPTION)