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 then 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)

SETUP RECORD
JOB NEW
SYS OPTN OPEN
JOB OPTN DEL
SCALE
TEMP/PRES

Then ENT

PROG
OCC PT SET OUT
BKS PT ROADS
POINTS TRAV
STRINGS COGO
ALIGN B. BOARDS
X-SECTS TAPE DIM

Then ENT

F6 Then F4 Then F6
P2 RSCT PARAM

F4 Then F5 Then F6
ADD MODE MODE

ENT

Repeat the above

ENT

ENT

PROG
OCC PT SET OUT
BKS PT ROADS
POINTS TRAV
STRINGS COGO
ALIGN B. BOARDS
X-SECTS TAPE DIM

Then ENT

F1 Then F1
PROGRAMS STDSVY

SETUP RECORD
JOB NEW
SYS OPTN OPEN
JOB OPTN DEL
SCALE
TEMP/PRES

Then ENT

EDIT
RAW
POINTS
PT LIB
CODE
CUTS

Then ENT

F6 Then F5
P2 COPY

Setting Out with the Topcon 600 Series (also for use with 500 & 700 series)

Level instrument using plate bubble
Power on
Turn Horizontal and Vertical Axis

Select F1 – PROGRAMS then Select F1 – STDSVY

F1 Then F1
PROGRAMS STDSVY

<Enter> JOB
NEW JOB / OPEN JOB

SETUP RECORD
JOB NEW
SYS OPTN OPEN
JOB OPTN DEL
SCALE
TEMP/PRES

Then ENT

After opening or creating a new job
Scroll across using arrow keys to PROG
Select SET OUT <Enter>

PROG
SET OUT
ROADS
TRAV
COGO
B. BOARDS
TAPE DIM

Then ENT

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')

PROG
OCC PT SET OUT
BKS PT ROADS
POINTS TRAV
STRINGS COGO
ALIGN B. BOARDS
X-SECTS TAPE DIM

Then ENT

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>

PROG
OCC PT SET OUT
BKS PT ROADS
POINTS TRAV
STRINGS COGO
ALIGN B. BOARDS
X-SECTS TAPE DIM

Then ENT

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 target (prism) height.
Input NEZ (if not already stored)

PROG
OCC PT SET OUT
BKS PT ROADS
POINTS TRAV
STRINGS COGO
ALIGN B. BOARDS
X-SECTS TAPE DIM

Then ENT

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

F3
ANG OR DIST

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

F4
CRS OR FINE

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

F5
SINGL OR TRACK

Press F6 MEAS key to take a measurement

F6
MEAS

Press <Enter> to proceed to next point.

ENT

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