

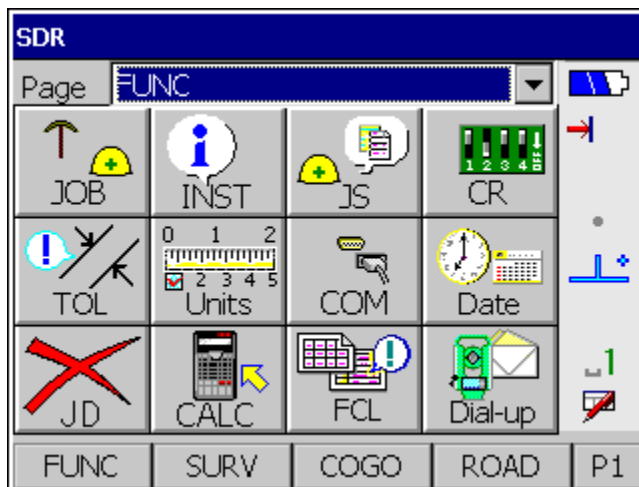
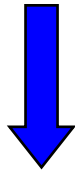
SOKKIA SETX Quick Guide

1. Creating of Job

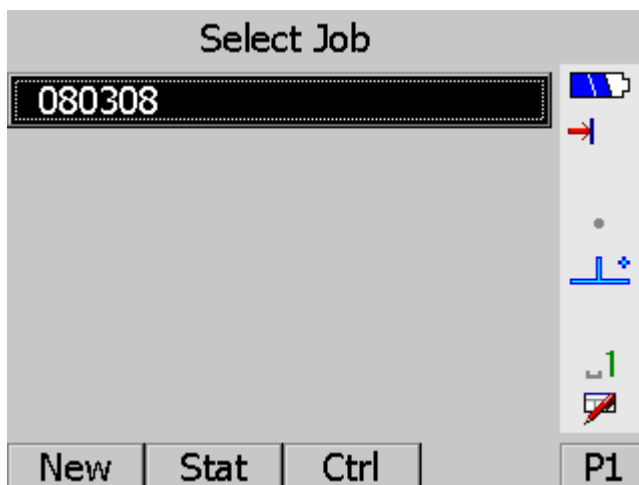
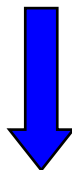
Before any Topographical or Setting-out job, a job has to be creating to store all observations.



Switch / Toggle over to SDR mode.



Create or Select a Survey job.



New

Press to enter to
Job Create Screen

Note: If no jobs are available in the SET X, the *Create Job* screen appears after you select the **Job** Icon.

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Job	<No text>
S.F.	1.00000000
Point Id	Alpha (14)
Atmos crn	No
C and R crn	No
Sea level crn	No
Record elev	Yes

- **Job** – Enter the job name with a combine of numbers and letters, up to 16 characters.
- **Point Id** – This field specifies the length and type of point's names in the job.
(**Numeric** – 4 point names contain four digits)
(**Alpha** – 14 points names may contain 14 characters, either letters or digits)
- **Record elev** – Cannot be Changed later
(**Yes** – Points Elevation will be recorded)
(**No** – Points Elevation will not be recorded. Example Setting-out.)

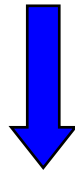
After Job name and all setting is done correctly, Press



to accept all setting.



follow by



Note
<input type="text"/>
<input type="text"/>
<input type="text"/>
FC On

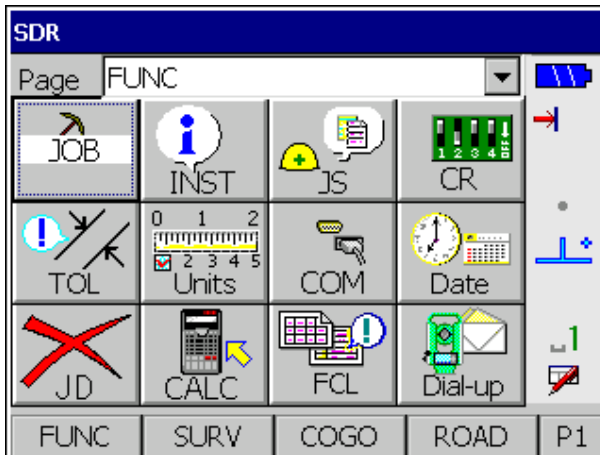
This page is use to enter additional information about the job.
Example: Place of survey, House No., Street Name and etc.

After done, Press

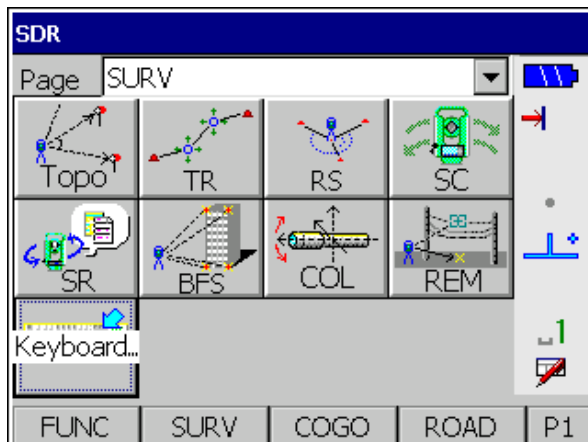
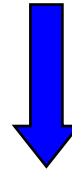


A Job is created, now you able do Topographical and Setting-Out.

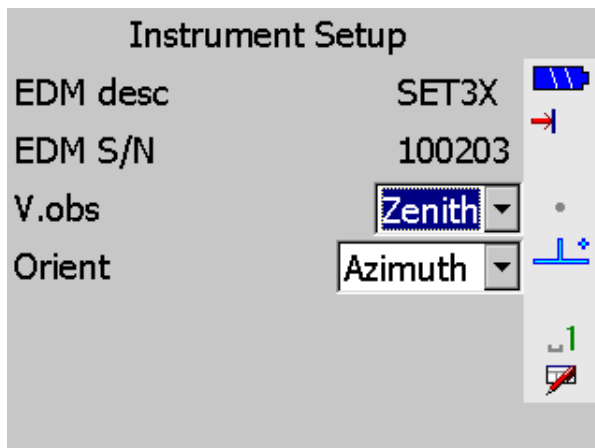
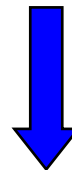
2. Topographical Survey



Select **SURV** [F2] to enter into **Survey Mode**.



Select Topo icon to start a Topographical Survey.



This page is Instrument Setup

V.obs - Zenith

Orient - Azimuth

Press  to accept

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Configure Reading

Total Stn	
Auto pt num	1000
Topo view stored	OBS
Combine F1/F2	No
# dist rdgs	1
Code list active	Yes

Just need to config
**Auto pt num (default 1000) and
Topo view stored (default OBS).**

Press  to accept.

Info Blocks	0
Code Fields On?	No
Recip Calc	Prompted

Stn	0001
N	30000.000
E	50000.000
El	105.231
Theo ht	1.500
Cd	STN I

Control Set up Screen

Key-in occupied Station no., northing, easting, elevation, Station height and Station code.

Press  to accept.

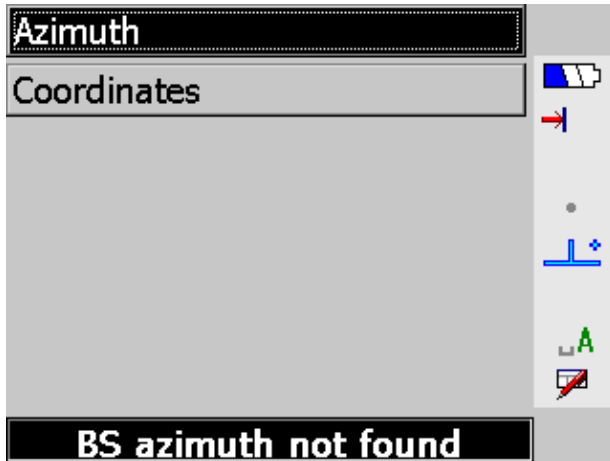
Confirm orientation

Stn	0001
BS pt	2
H.obs	86°38'19"
V.obs	129°18'23"

Enter BS pt – Station no.

Press  to accept.

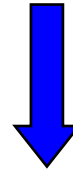
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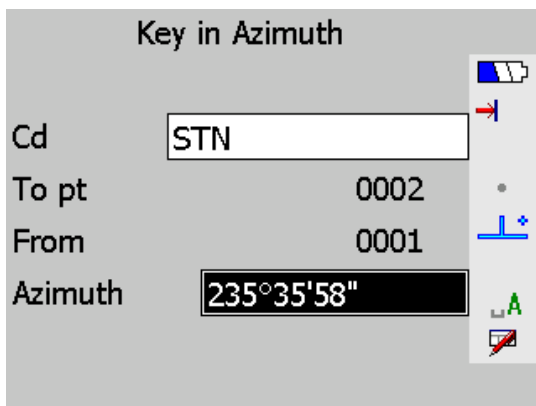
You will be prompt to select either **Azimuth** or **Coordinates**.

Once Azimuth or Coordinates have been enter,

Press  to accept.

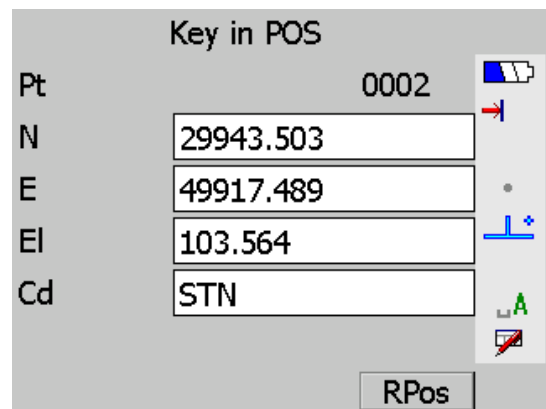


Azimuth

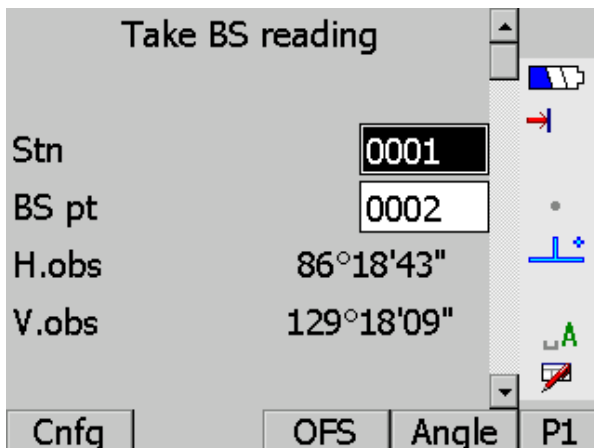
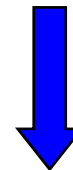


OR

Coordinates



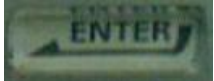
Press  to accept.



Require to sight at the Backside Station, before press the measure blue button.

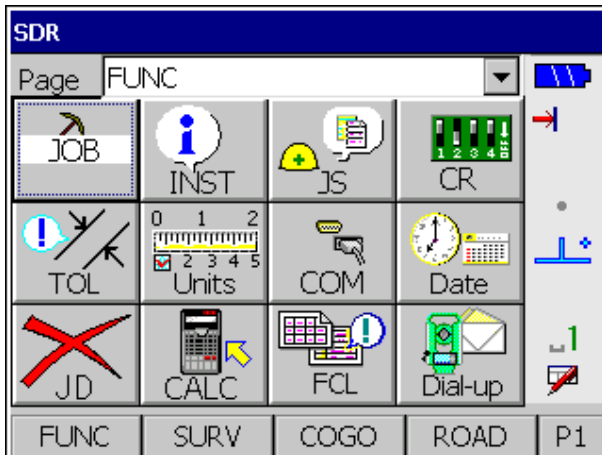
After BS reading taken and you need to enter Target ht, Press



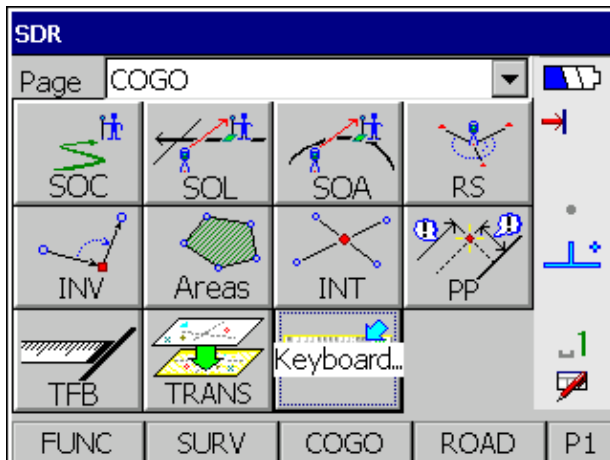
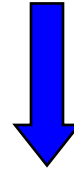
follow by  to accept reading.

Now you can start pick up your topo point.

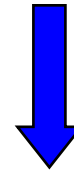
3. Setting-Out



Select **COGO** [F3] to enter into **COGO Mode**.



Select Setting out Coordinate icon to start Setting – Out.

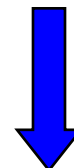


Stn	0001
N	3000.000
E	5000.000
Cd	STN I

Control Set up Screen

Key-in occupied Station no., northing, easting, and Station code.

Press  to accept.



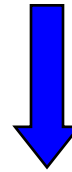
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Confirm orientation

Stn	0001
BS pt	2
H.obs	1°43'22"
V.obs	90°41'28"

Enter BS pt – Station no.

Press  to accept.



Azimuth

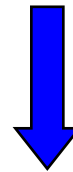
Coordinates

BS azimuth not found

You will be prompt to select either **Azimuth** or **Coordinates**.

Once Azimuth or Coordinates have been enter,

Press  to accept.



Azimuth

Key in Azimuth

Cd	STN
To pt	0002
From	0001
Azimuth	0°00'00"

OR

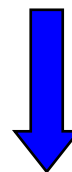
Coordinates

Key in POS

Pt	0002
N	3050.000
E	5000.000
Cd	STN

RPos

Press  to accept.



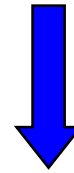
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Take BS reading

Stn	0001
BS pt	0002
H.obs	1°43'22"
V.obs	90°41'08"

Cnfg OFS Angle P1

Require to sight at the Backside Station, before press the measure blue button.

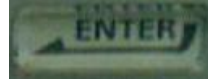


Code STN

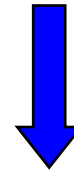
Pt	0002
H.obs	0°00'00"
V.obs	90°41'27"
S.Distance	4.617

Cnfg OFS Angle P1

After BS reading taken, Press



to accept reading.



Confirm orientation

Stn	0001
BS pt	0002
H.obs	240°29'42"
V.obs	90°41'30"

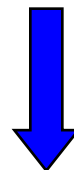
After BS reading taken and you need Confirm orientation, Press



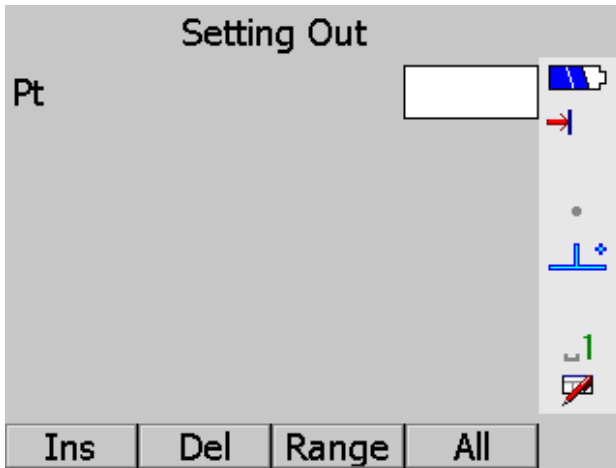
Follow by



to accept the orientation of your Station Setup.




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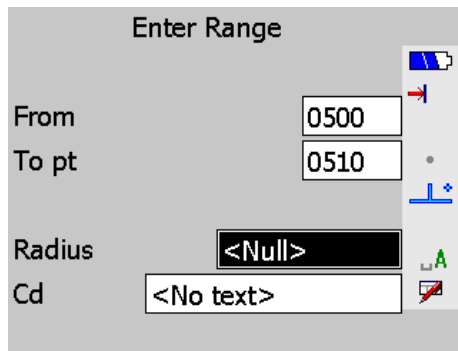
You can either enter a setting-out Pt No. in the box. Key in Screen will prompt you to key in. OR



Press  to exit to COGO screen to Key-in the setting-out coordinates.



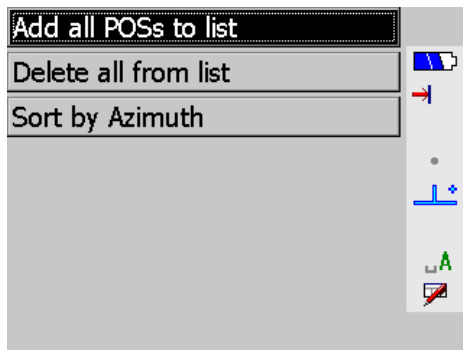
Select  to input setting-out points coordinates.



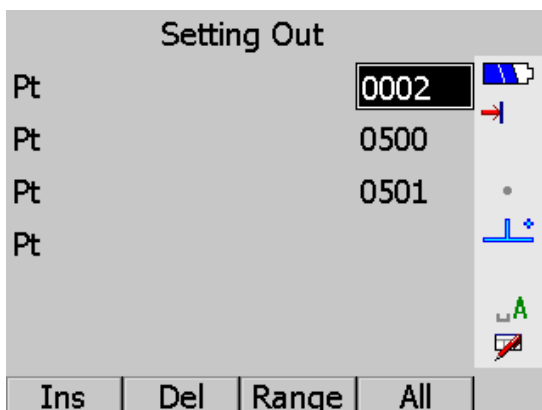
Press **Range** enter Range of setting-out Pt No, you want to set out.


Example: 500 to 510

OR

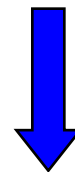


Press **All** to select all the Points in the Key-in list.

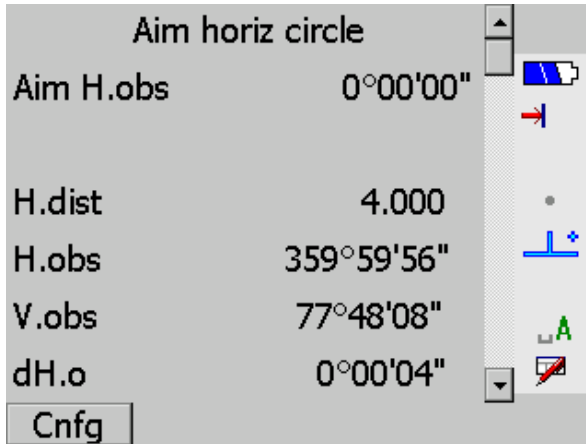


Use the scroll Key  to select the point, you want to set out.

Press  to set out.

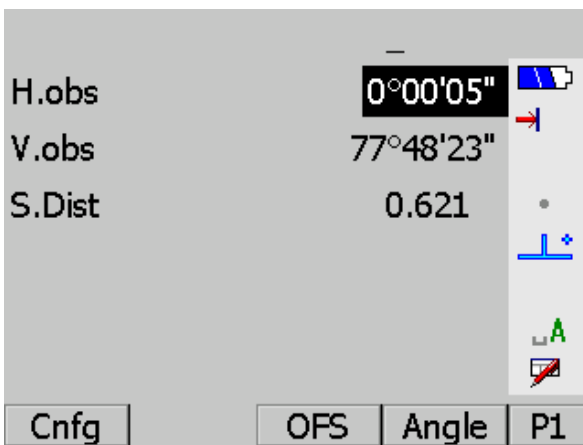
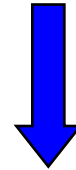


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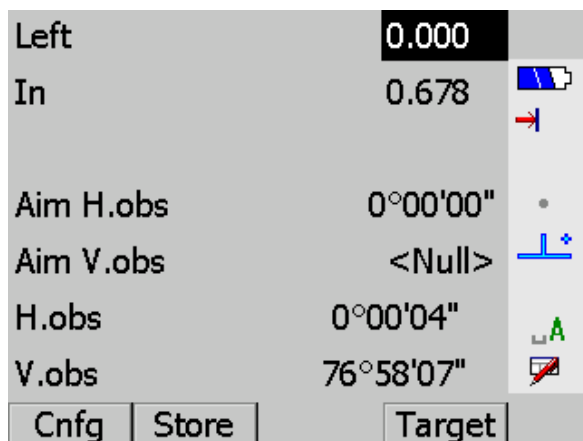
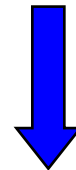


Now you are required to turn until the dH.obs is the same as the Aim H.obs.

Once it is ready, you can press the measure blue button.



Press  follow by  to accept measurement for calculation.



Left – move left or right.

In – move front or back.

Target - Is to re-observe the setting-out point.

Store - Is to record the setting-out point.

4. Transfer of data using USB thumb drive / CF (Compact Flash Card)

Transferring

- When transferring Data from Set X **Plug in the USB thumb drive / CF into the slot First**, at side of the Face 1 display panel.



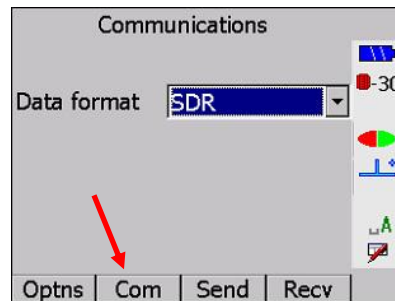
- Press the Program button [if you are in the Basic Measuring Mode].



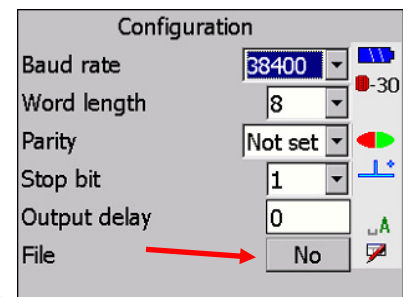
- Once you are in the SDR Mode



- Select **[COM]** for downloading or Transferring.



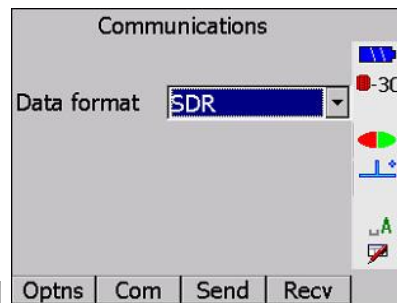
- The **Communication Screen** will appear



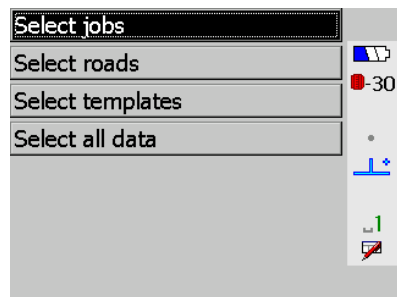
- Select **[Com]** to do change the File Options setting to **YES** before Downloading, Press Enter to accept setting.
- You will now return back to Communication Screen and now you can select the type of Data Format to Download or Upload.
- You can either Select the Data format either **SDR [OBS]** / **Delimited text [POS]**.
- Once the Data Format is selected, you can press either **Send or Recv**.

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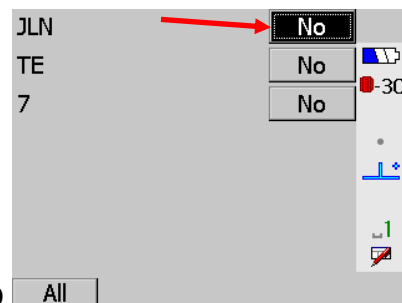
- Select a Job to Download or Upload. **[One Job at a time]**



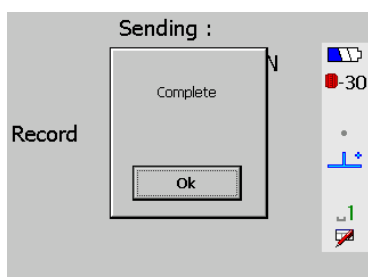
- For Download, you press **[Send]**



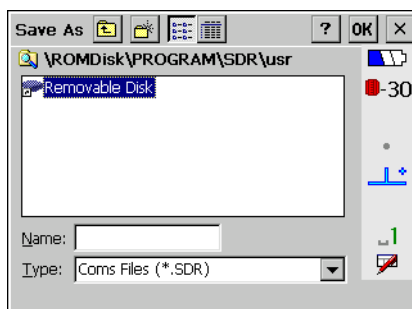
- Job Selection Screen will appear press Enter.



- Use the  [◀ ▶] to toggle YES or NO

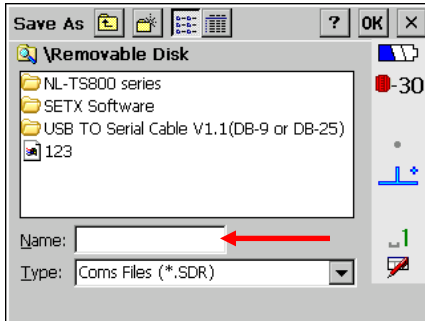


- Once download have completed, and press ENTER or Ok.



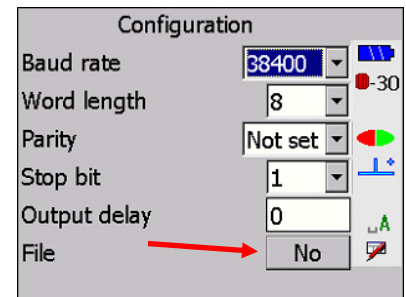
- Select Removable Disk first then press ENTER.

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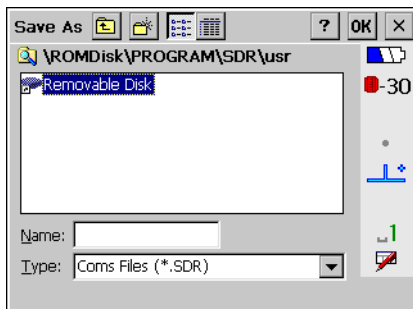


- Give a file name for your Job in the box, after you enter the name and press ENTER. Now you can take out Thumb-drive / CF.

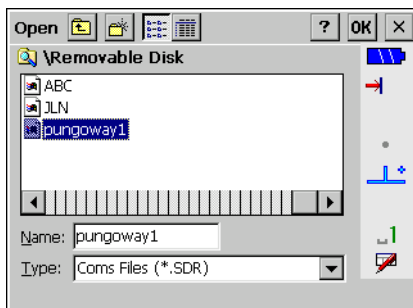
Receiving



- Select **[Com]** to do change the File Options setting to **YES** press Enter
- You can either Select the Data format either **SDR [OBS]** / **Delimited text [POS]**.
- Once the Data Format is selected, you can press **[Recv]**.

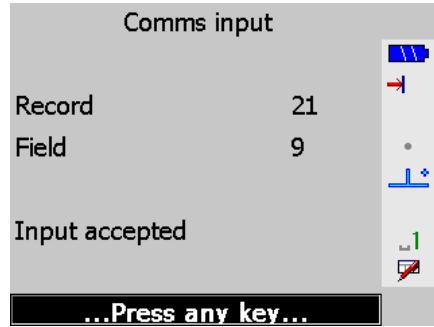


- Select Removable Disk first then press ENTER.



- Select a job that you wish to upload to the Total Station, press ENTER.

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- Once complete this screen will appear and press any key to continue.