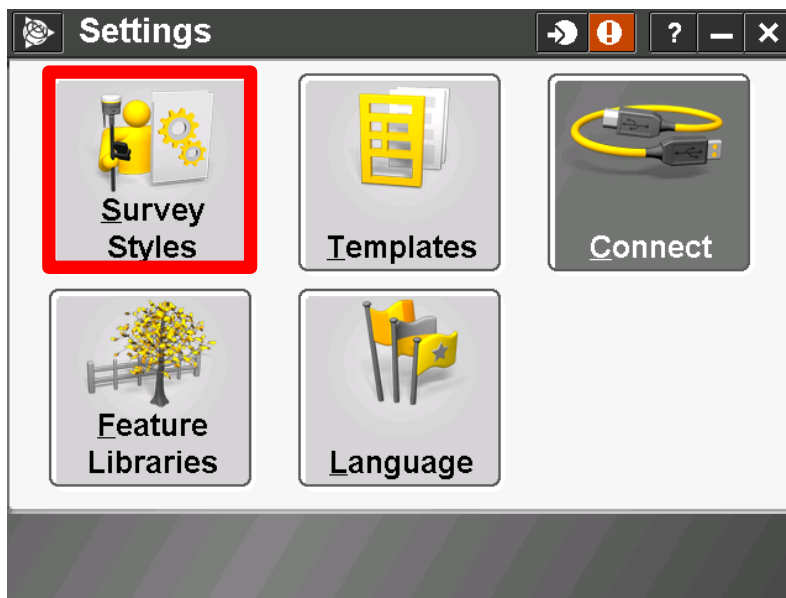
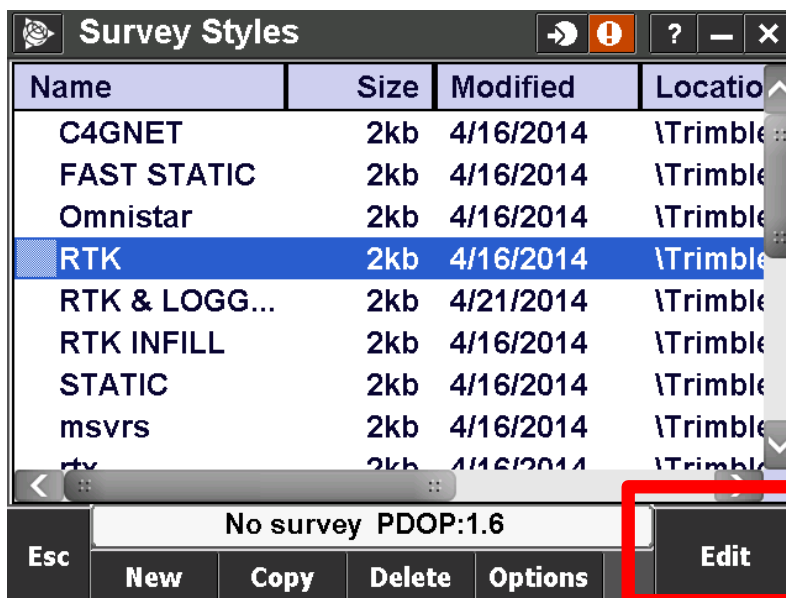


How to Start RTK with Base R8 and Rover R10 connected via BT and Internal Radio

Select Survey Styles

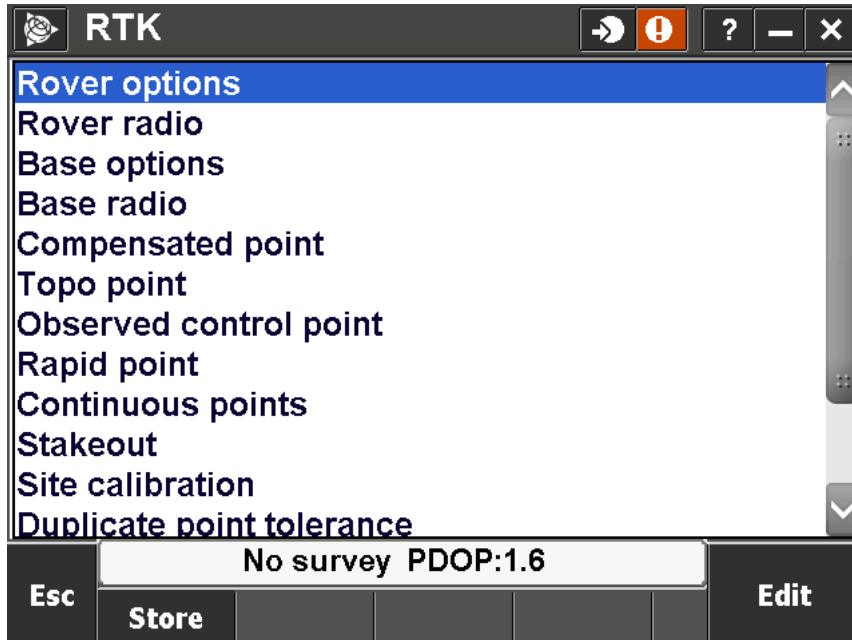


Select RTK and hit edit if it exists, or create new Style

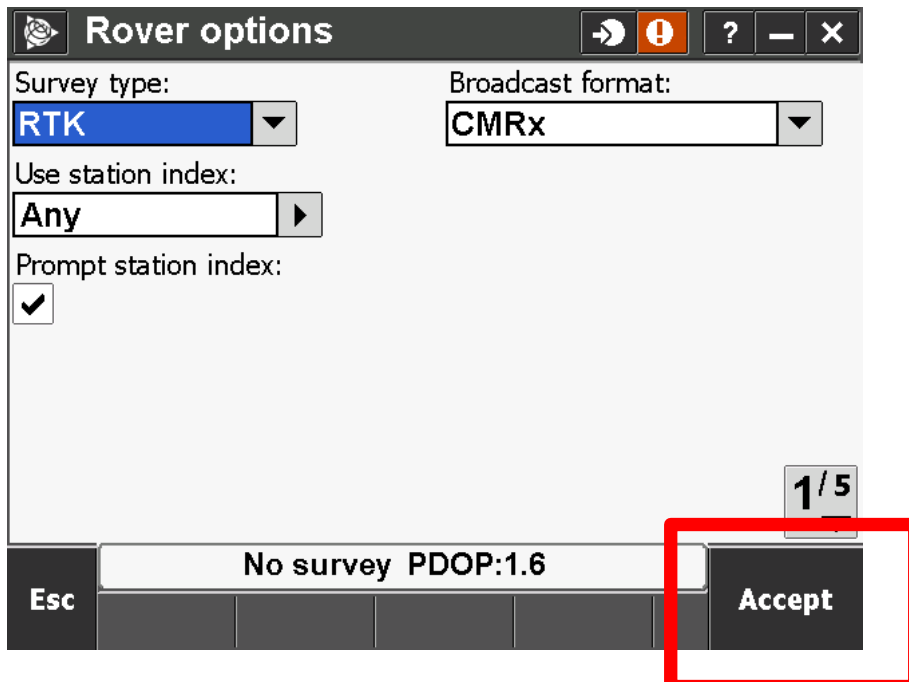




Select Rover options

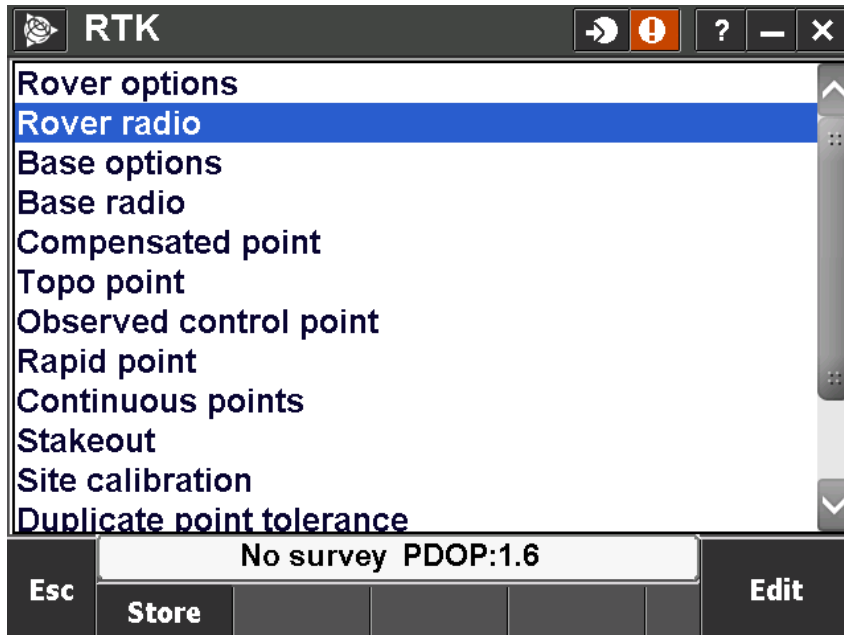


In Rover options make sure Survey type is RTK, Broadcast format is CMRx and click accept. If you are using an older model (R8 – Model 2) you should select CMR+ for Base and Rover!

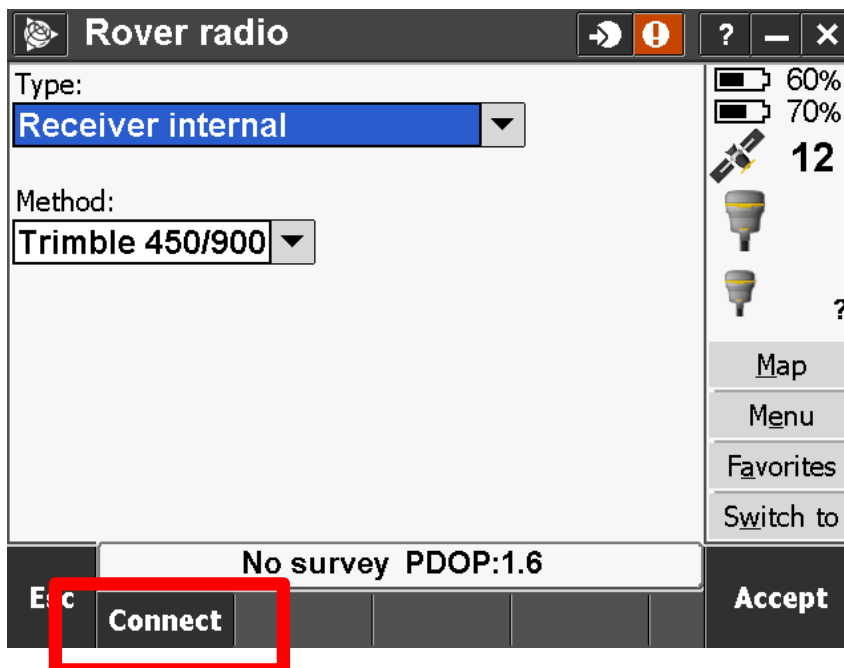




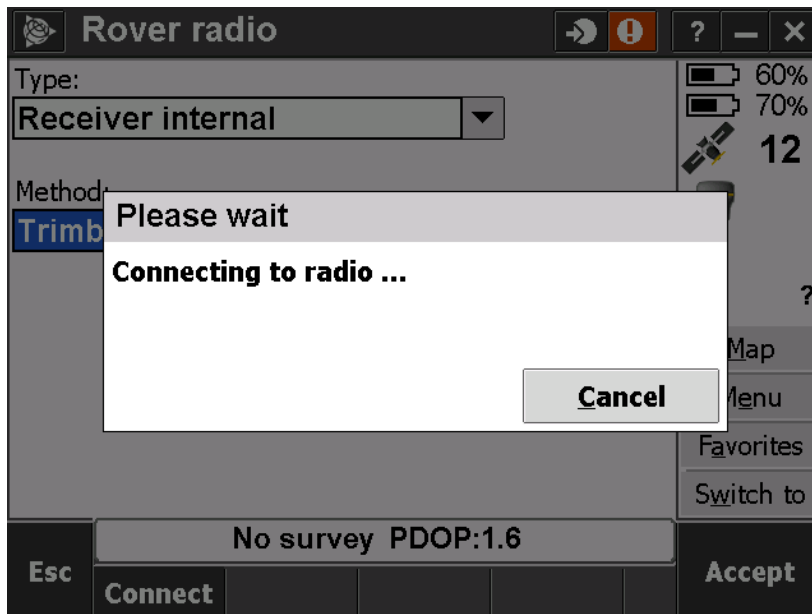
Select Rover radio



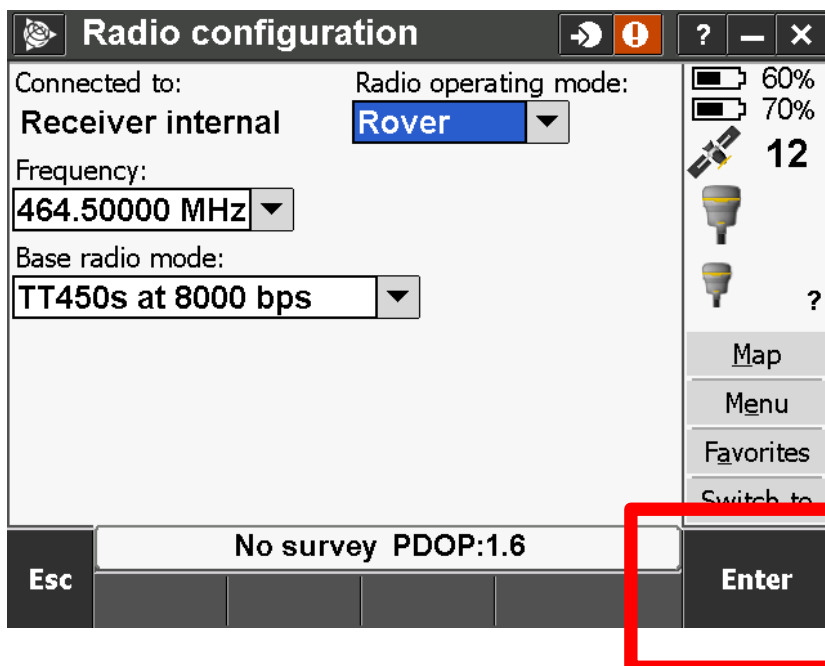
In Rover radio make sure Type is Receiver internal and Method is Trimble 450/900 and click on Connect



Connecting to radio

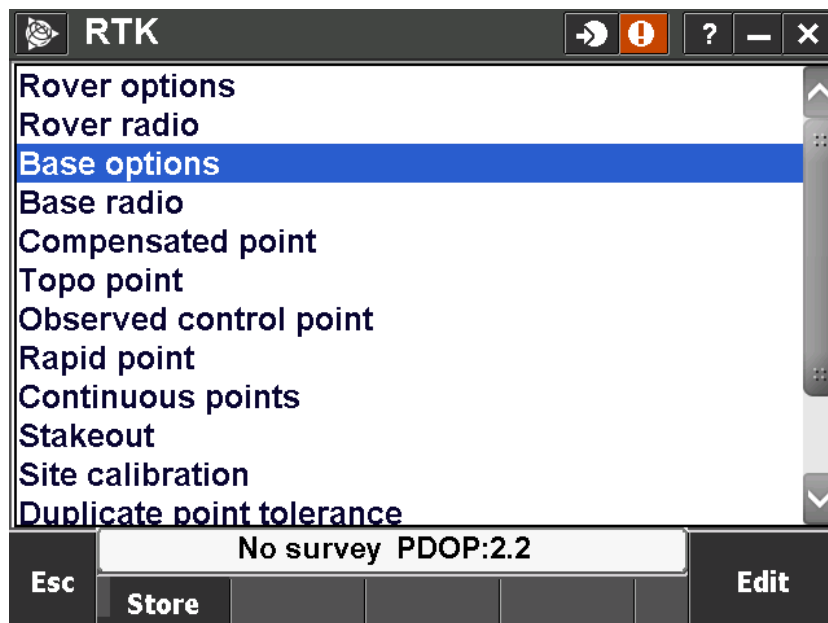


Radio configuration make sure radio operation mode is Rover, Frequency 464.50000 MHz and Base radio mode is TT450s at 8000 bps and hit Enter (Frequencies must match Base as well!)





Select Base options



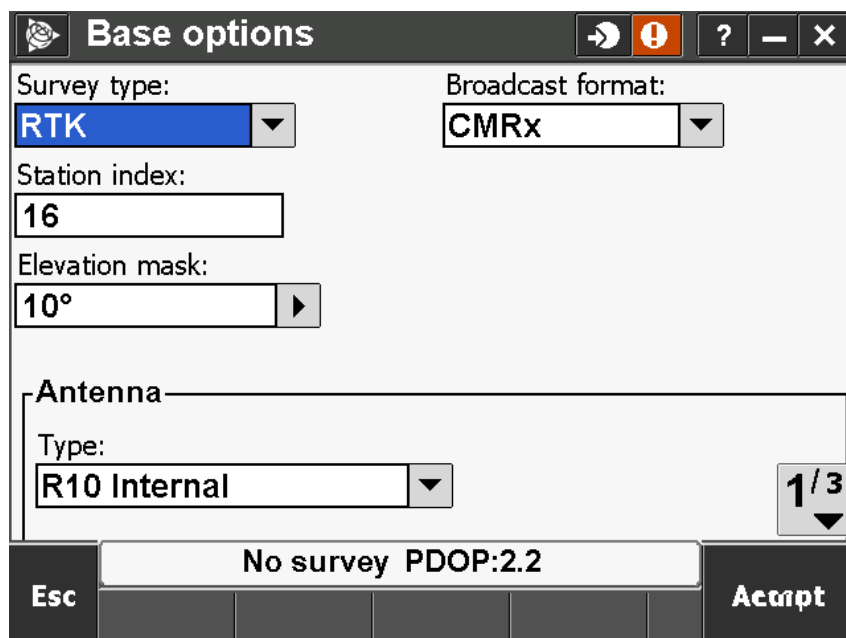
The screenshot shows a software window titled "RTK" with a list of options. The "Base options" item is highlighted in blue. Below the list, a status bar displays "No survey PDOP:2.2". At the bottom, there are buttons for "Esc", "Store", and "Edit".

RTK
Rover options
Rover radio
Base options
Base radio
Compensated point
Topo point
Observed control point
Rapid point
Continuous points
Stakeout
Site calibration
Duplicate point tolerance

No survey PDOP:2.2

Esc Store Edit

In Base options make sure your Survey type is RTK and your Broadcast format is set to CMRx



The screenshot shows the "Base options" dialog box. It contains fields for "Survey type" (set to RTK), "Broadcast format" (set to CMRx), "Station index" (16), and "Elevation mask" (10°). There is also an "Antenna" section with a "Type" dropdown set to "R10 Internal". A status bar at the bottom shows "No survey PDOP:2.2". Buttons for "Esc" and "Accept" are at the bottom.

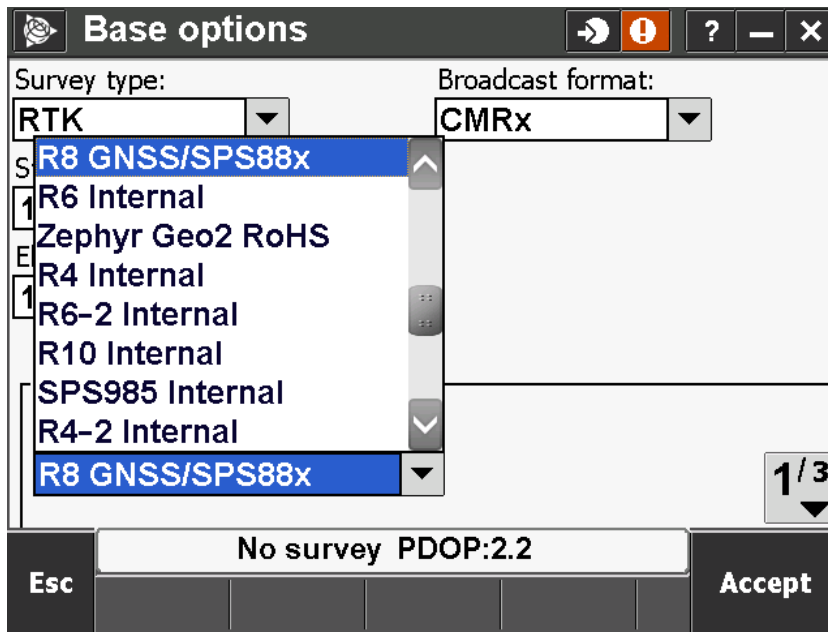
Base options	
Survey type: RTK	Broadcast format: CMRx
Station index: 16	
Elevation mask: 10°	
Antenna	
Type: R10 Internal	

No survey PDOP:2.2

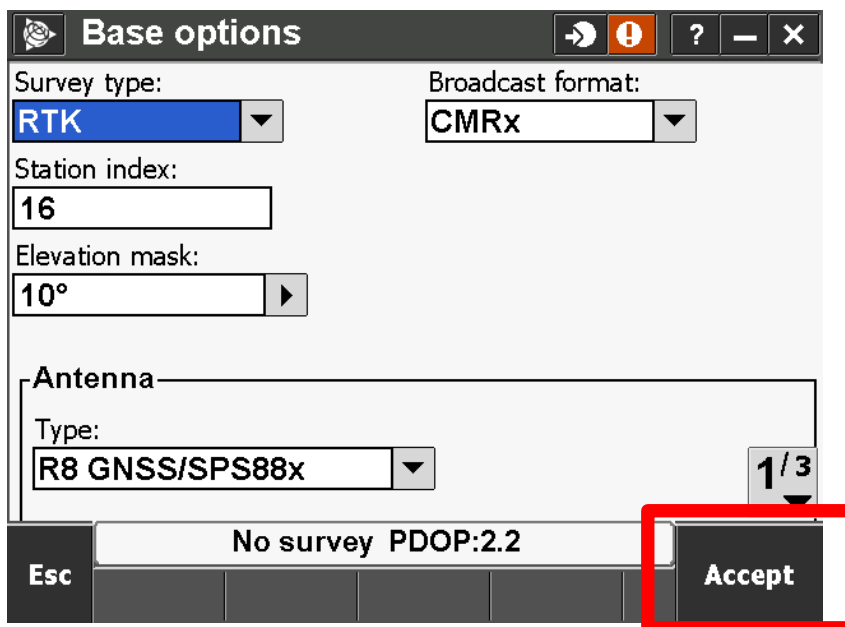
Esc Accept



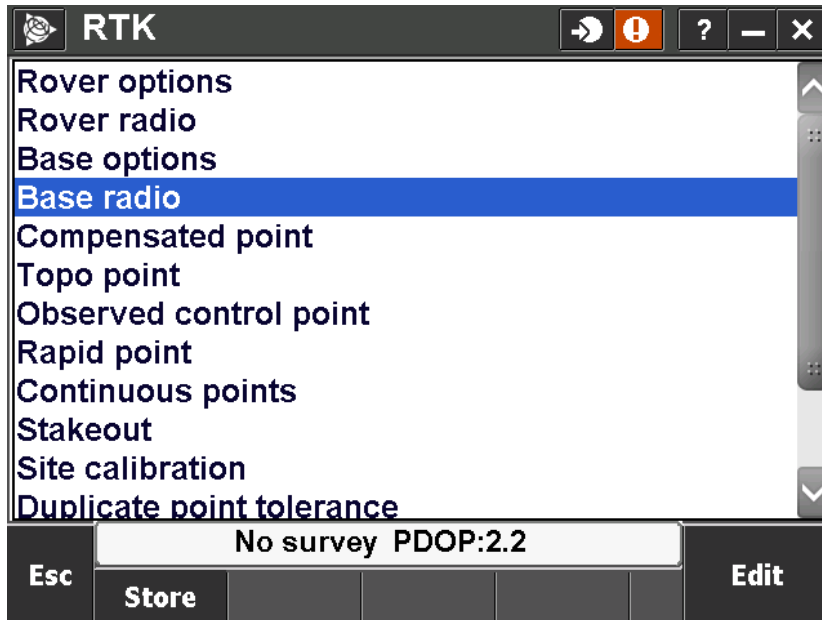
In Base options make sure to select R8 GNSS antenna if it was model 3 or whatever is your receiver



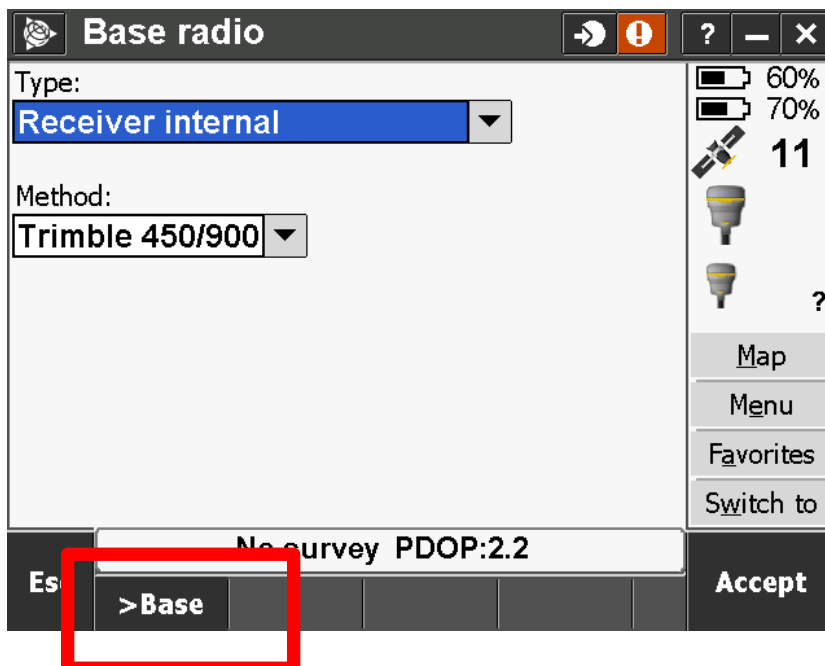
In Base options make sure to your screen look exactly like the below image and accept



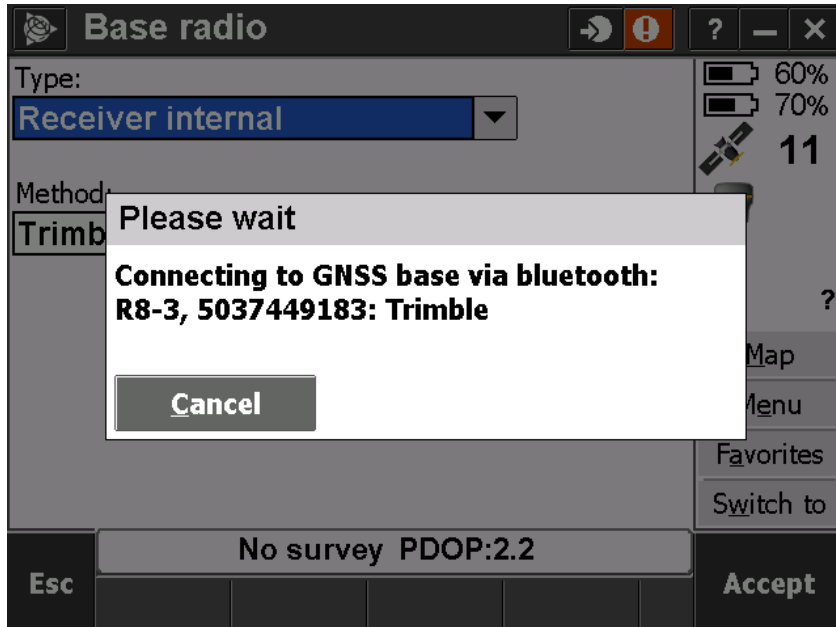
Select Base radio



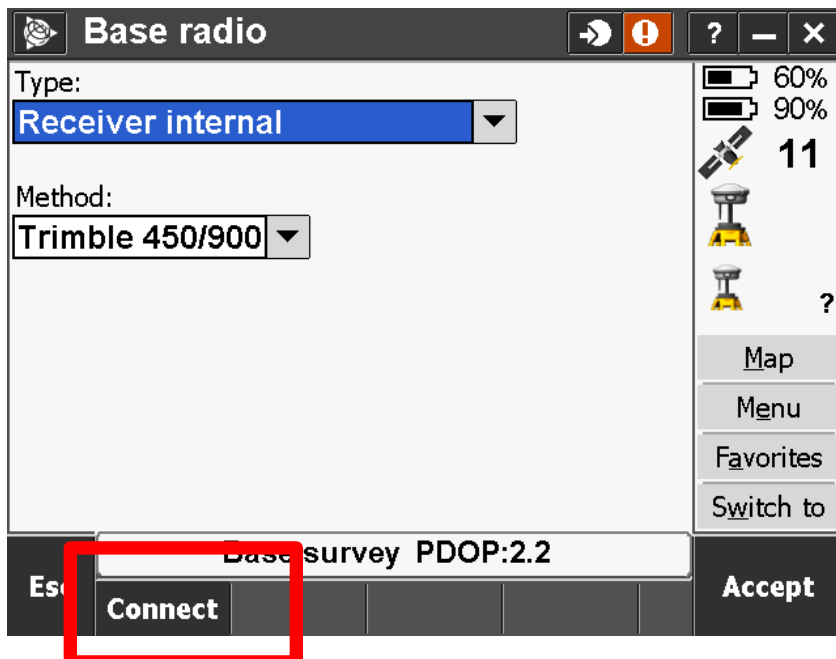
In Base radio select Receiver internal for Type and Method Trimble 450/900

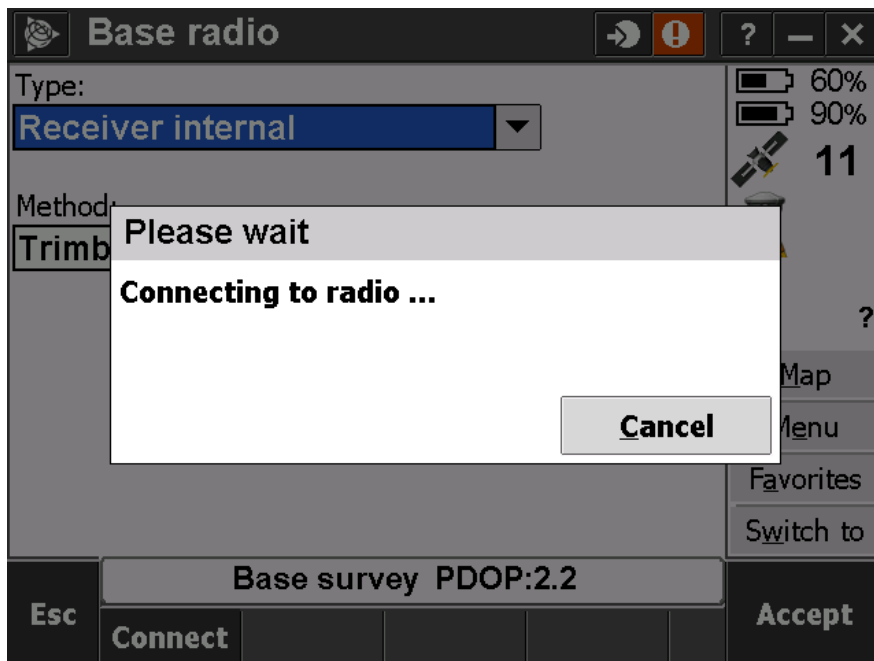


Connecting to Base receiver

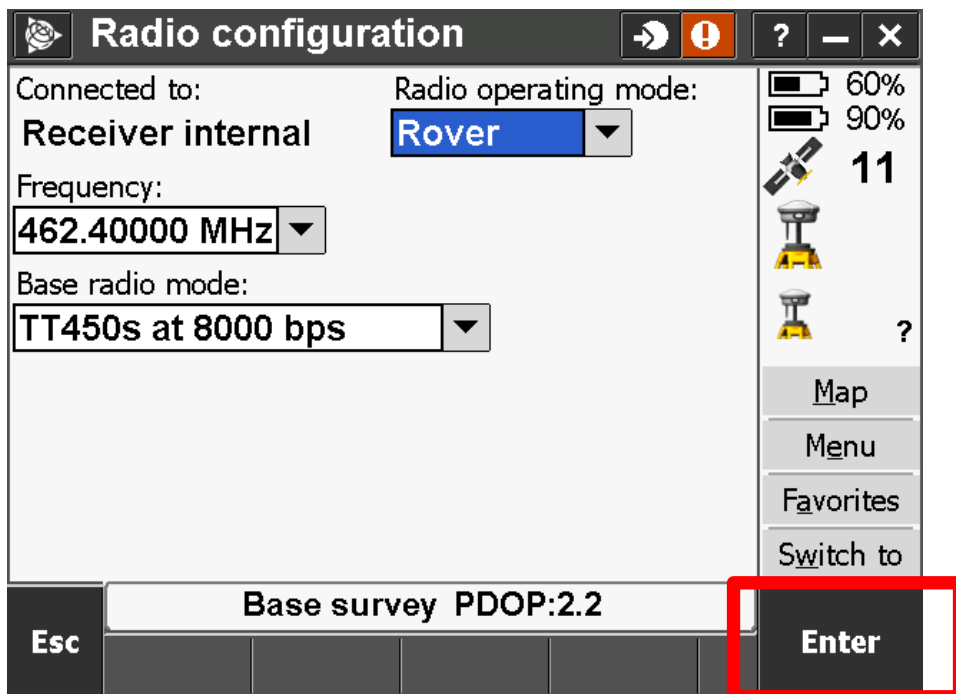


Connecting to Base receiver, hit connect

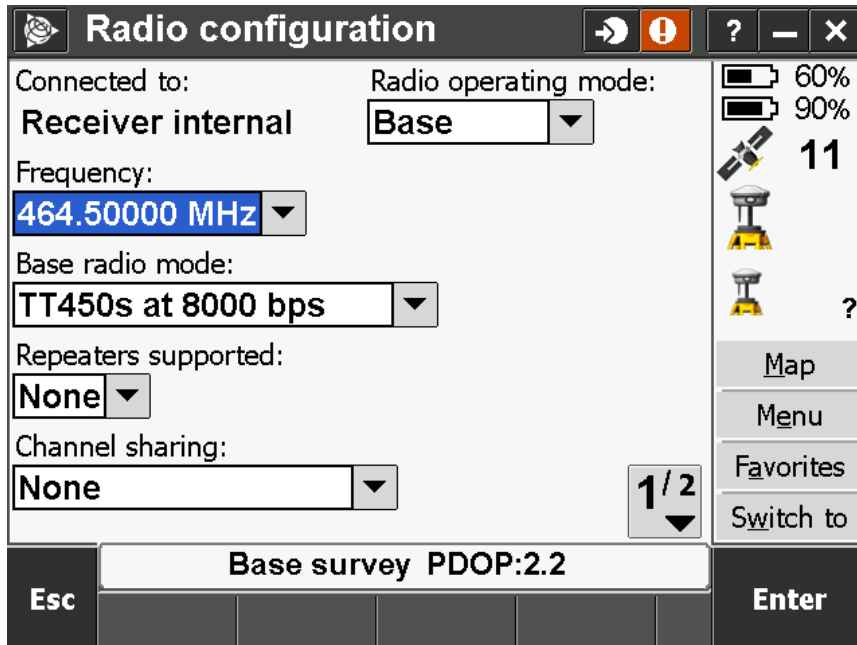




Make Sure to match your frequencies with your rover



Make sure the base radio mode matching your rover



Radio configuration

Connected to: **Receiver internal**

Radio operating mode: **Base**

Frequency: **464.50000 MHz**

Base radio mode: **TT450s at 8000 bps**

Repeaters supported: **None**

Channel sharing: **None**

1/2

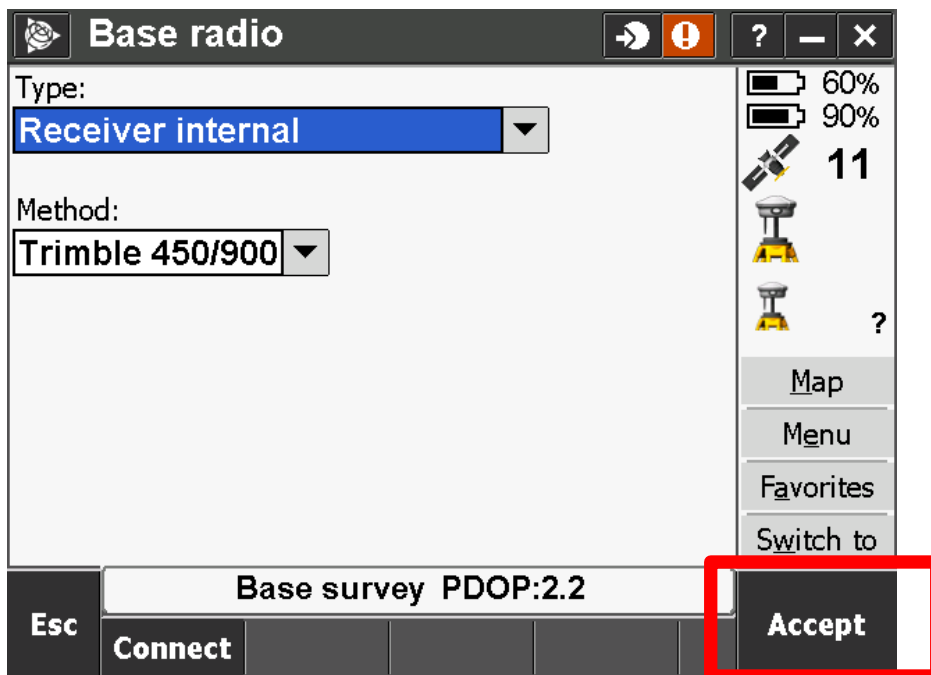
Base survey PDOP:2.2

Esc Enter

60% 90% 11 ?

Map Menu Favorites Switch to

Hit Accept



Base radio

Type: **Receiver internal**

Method: **Trimble 450/900**

Base survey PDOP:2.2

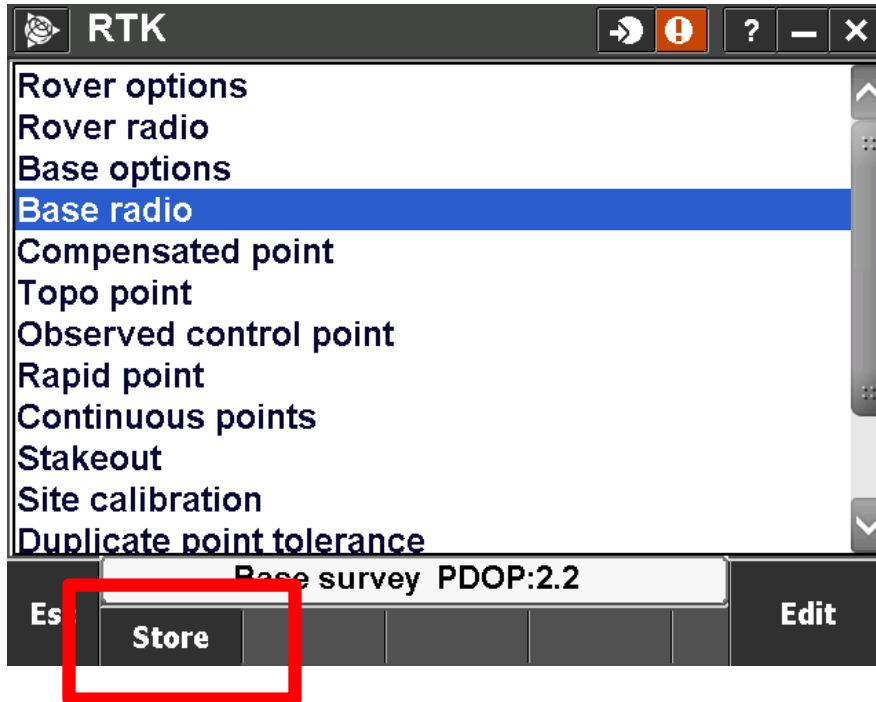
Esc Connect Accept

60% 90% 11 ?

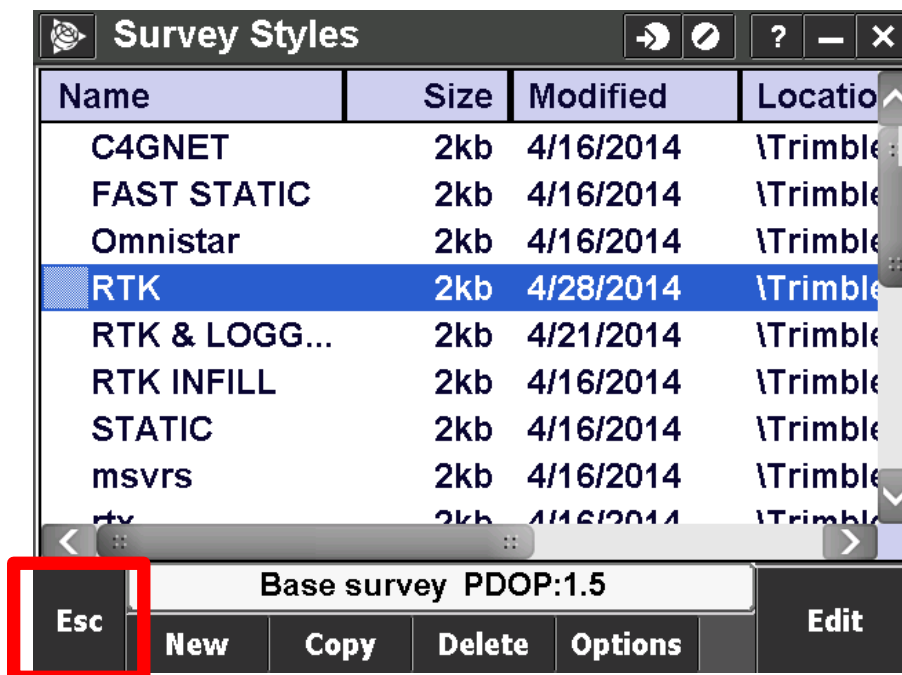
Map Menu Favorites Switch to



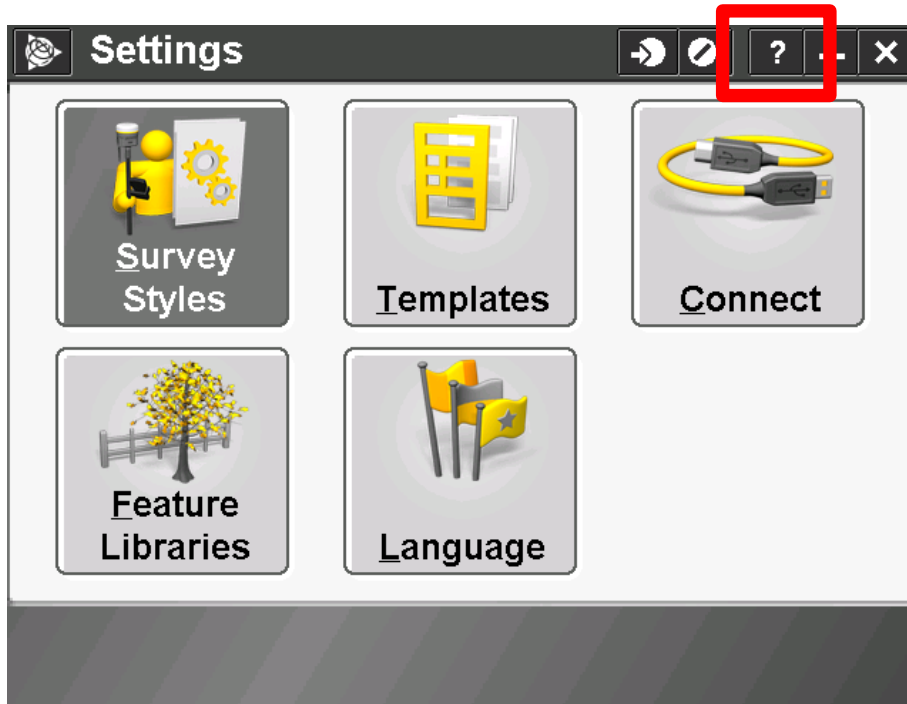
Make sure to store your edits



You are done with the survey style, hit ESC



You are done with the survey style, hit X



Click on General Survey

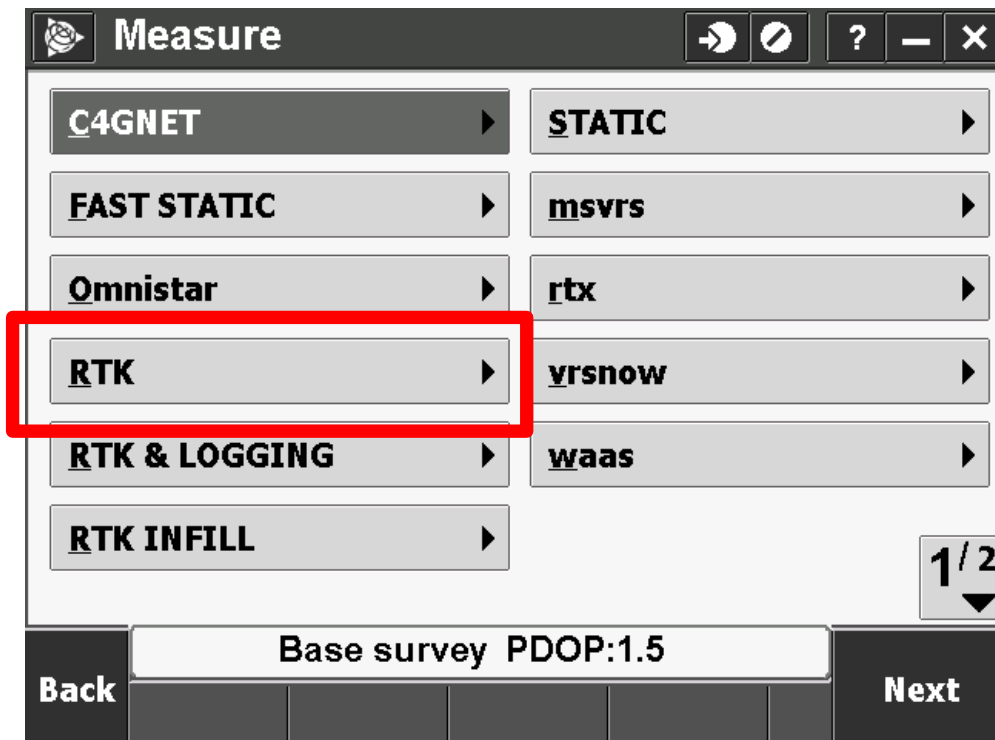




Start a new job or existing one

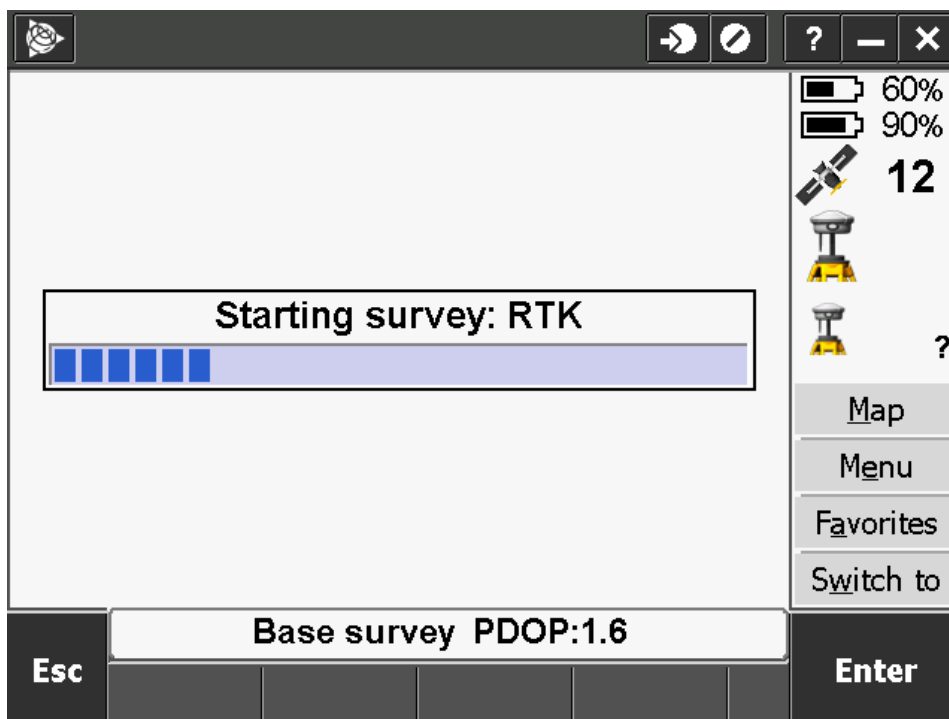
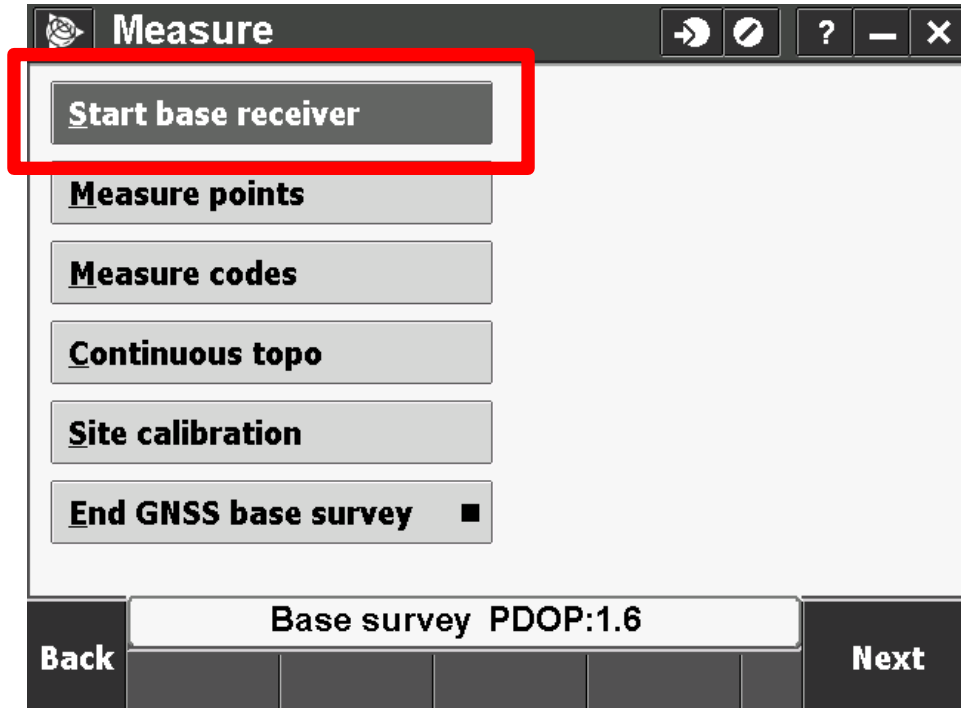


Select RTK Survey Style

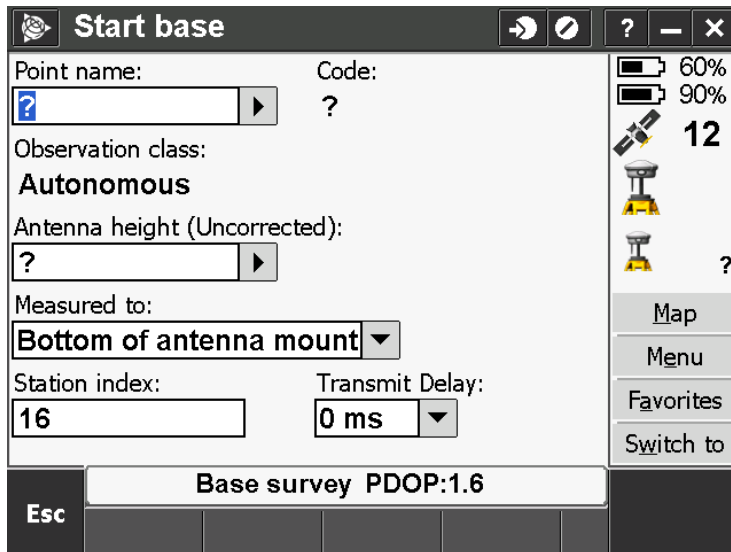




Start your Base



Select a point to start from



Start base

Point name: Code: 60% 90% 12

Observation class: **Autonomous**

Antenna height (Uncorrected): ?

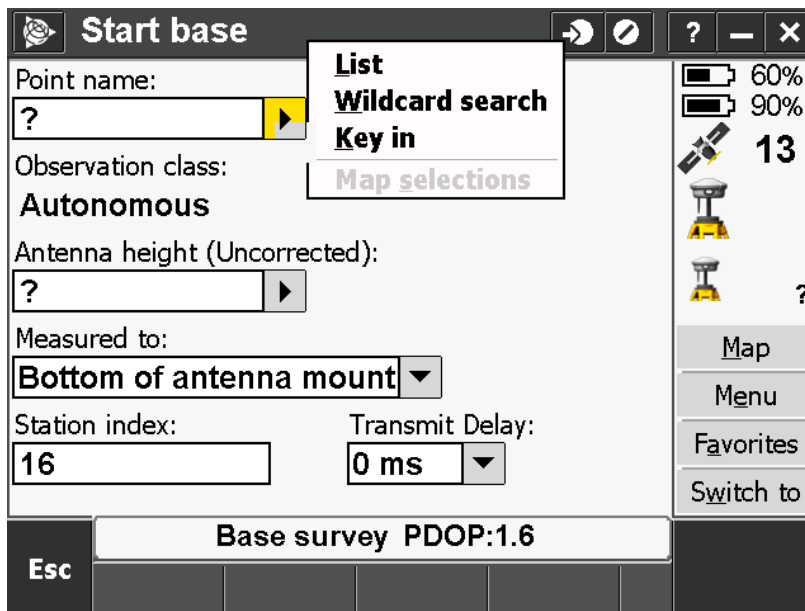
Measured to: **Bottom of antenna mount**

Station index: Transmit Delay:

Base survey PDOP:1.6

Map Menu Favorites Switch to

Select a point from a List or Key In



Start base

Point name: 60% 90% 13

Observation class: **Autonomous**

Antenna height (Uncorrected): ?

Measured to: **Bottom of antenna mount**

Station index: Transmit Delay:


Base survey PDOP:1.6



Map Menu Favorites Switch to



List
Wildcard search
Key in
Map selections



Or Start from here position (autonomous), Click here and it will populate your fields


Point

Point name:

BM

Code:

?

Northing:


?


Easting:


?


Elevation:

?


60%


90%


15


?

Map

Menu

Favorites

Switch to


Esc



Base survey PDOP:1.5



Here

Options

Enter


Point

Point name:

BM

Code:

?

Northing:


629608.702sft


Easting:


3051588.872sft


Elevation:

77.797sft


60%


90%


15


?

Map

Menu

Favorites

Switch to

Esc

Base survey PDOP:1.5


Here






Options

Store



Enter Antenna height


Start base

Point name:

BM

▶

Code:

?

Observation class:
Autonomous

Antenna height (Uncorrected):

?

▶

Measured to:

Bottom of antenna mount

▼

Station index:

16

Transmit Delay:

0 ms

▼

Esc

Base survey PDOP:1.5

60%

90%

15


?






Map

Menu

Favorites

Switch to


Start base

Point name:

BM

▶

Code:

?

Observation class:
Autonomous

Antenna height (Uncorrected):

2m

▶

Measured to:

Bottom of antenna mount

▼

Station index:

16

Transmit Delay:

0 ms

▼

Esc

Base survey PDOP:1.5

60%

90%

15

?

Map


Menu



Favorites



Switch to



Select Measured to and hit Start to start your Base


Start base

Point name:

Code:

Observation class:
Autonomous

Antenna height (Uncorrected):

Measured to:

Bottom of antenna mount

Station index:

Transmit Delay:

Base survey PDOP:3.1

Esc

Start

60%

90%

15


6.562



Map



Menu

Favorites


Switch to



Starting survey



Base survey PDOP:1.6

Esc

Enter

60%

90%

12

6.562

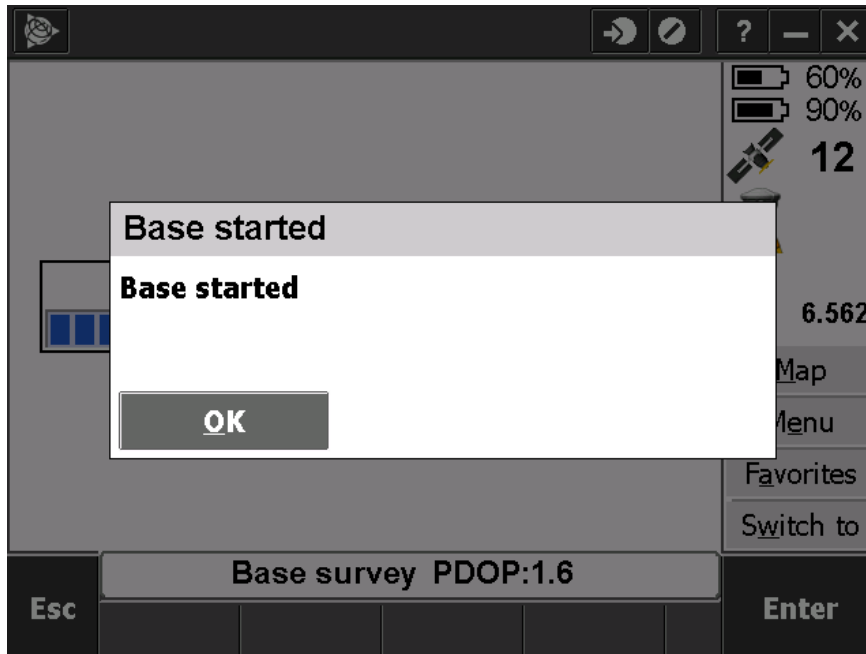
Map

Menu

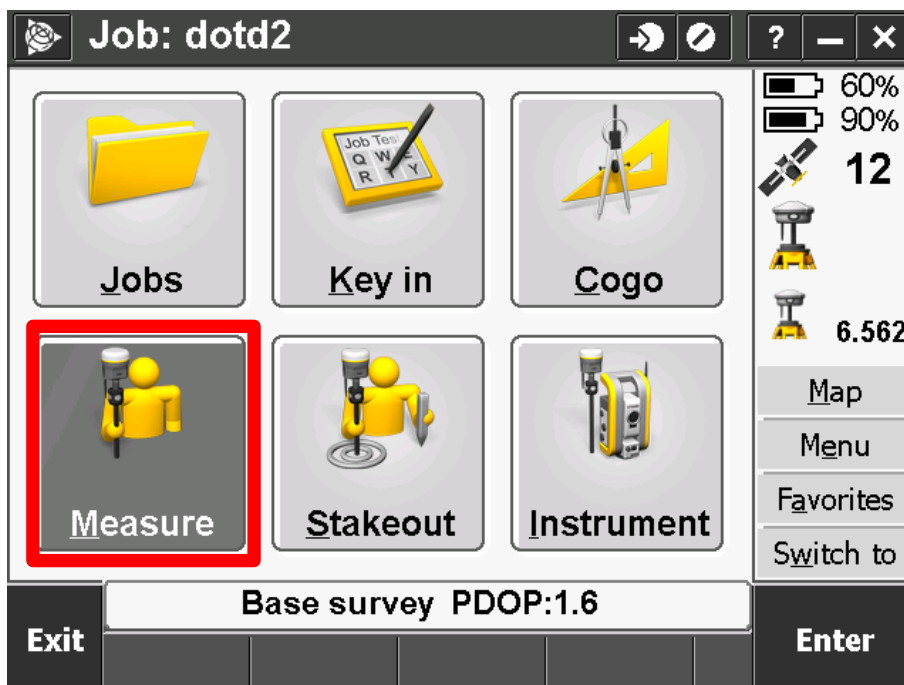
Favorites

Switch to

The Base started

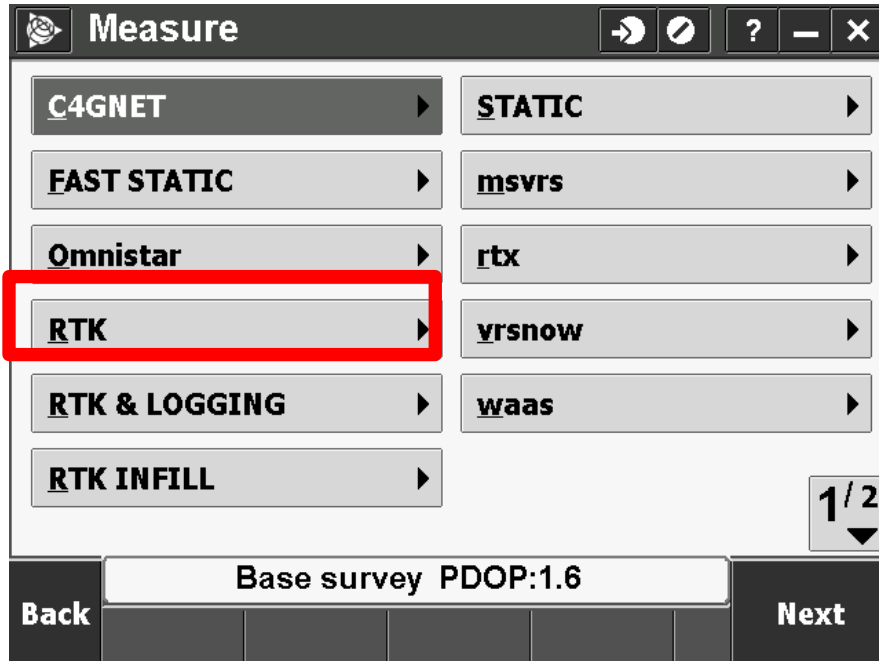


Go to Measure





Select your Survey Style RTK



Measure

C4GNET ▶ **STATIC** ▶

FAST STATIC ▶ **msvrs** ▶

Omnistar ▶ **rtx** ▶

RTK ▶ **yrsnow** ▶

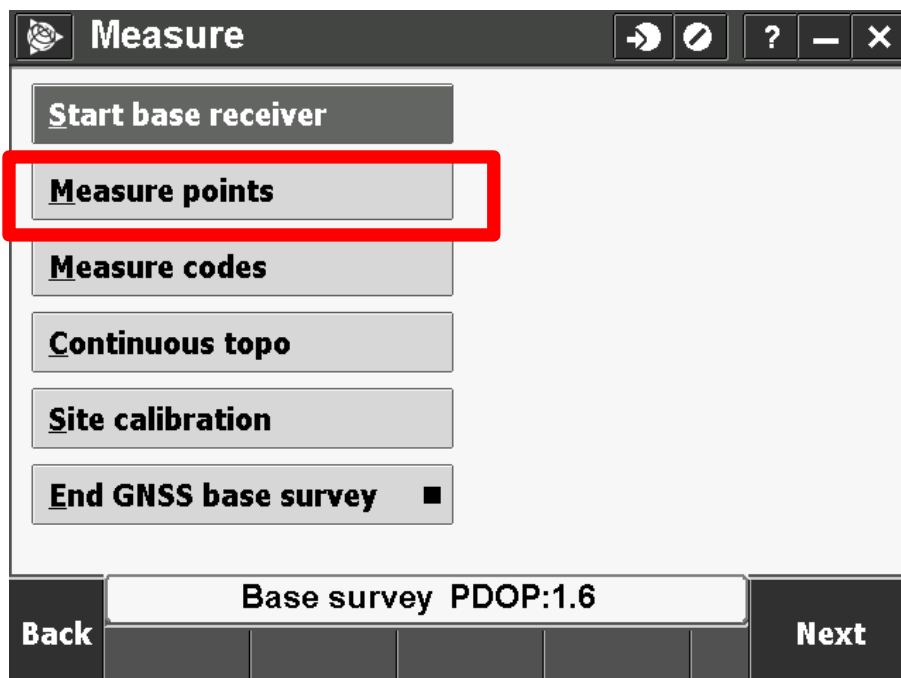
RTK & LOGGING ▶ **waas** ▶

RTK INFILL ▶

1/2

Back **Base survey PDOP:1.6** **Next**

Select Measure points



Measure

Start base receiver

Measure points

Measure codes

Continuous topo

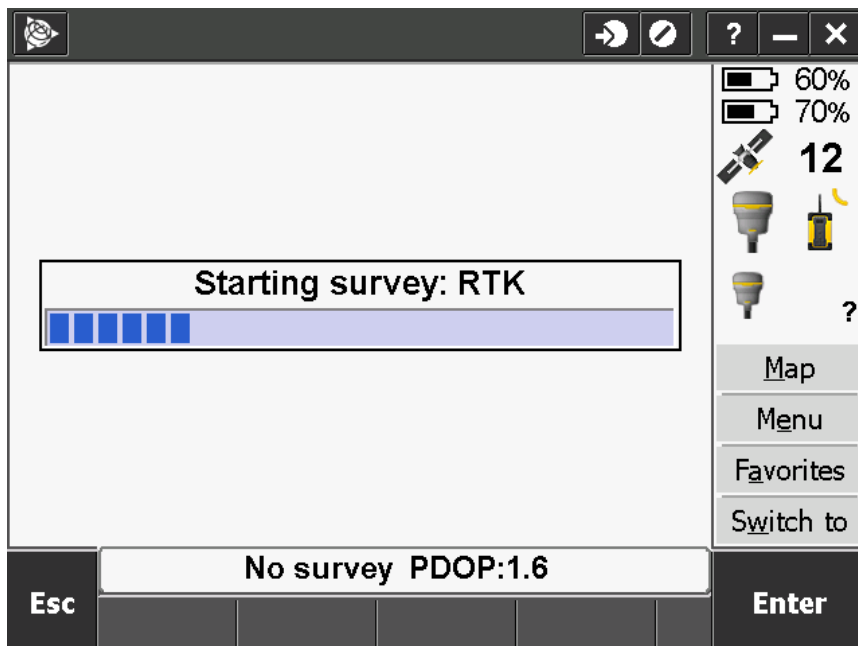
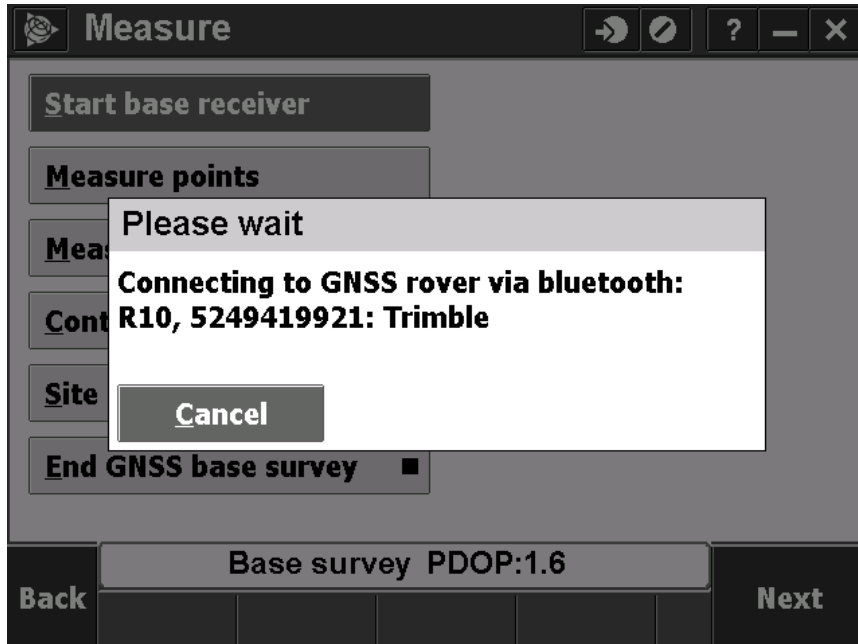
Site calibration

End GNSS base survey ■





Back **Base survey PDOP:1.6** **Next**









Connecting to Rover



Select Accept


Select base station




Index	Reliability
16	100%





 60%
 70%
 **12**
 
 ?

Map
Menu
Favorites
Switch to


Esc







No survey PDOP:1.6

Accept

Starting survey



 60%
 70%
 **11**
 
 ?

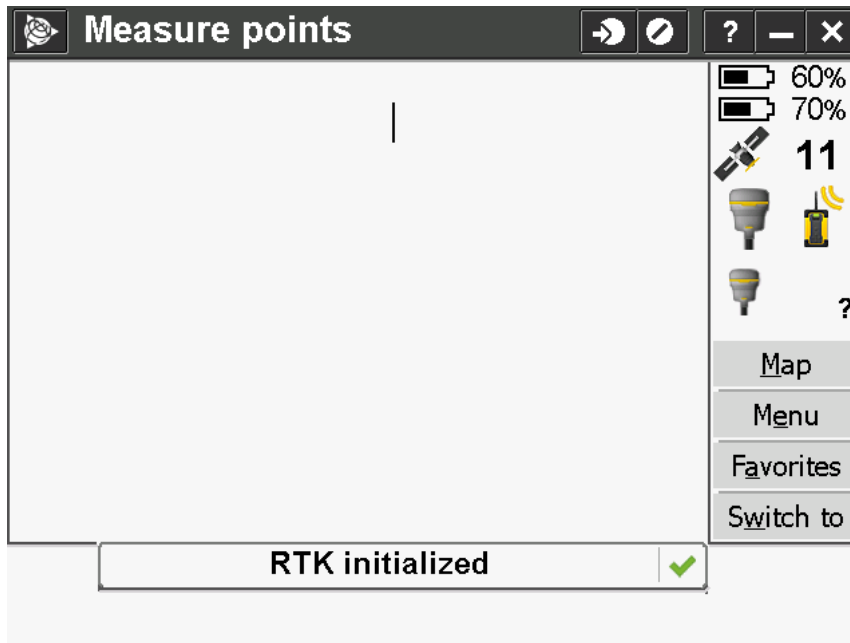
Map
Menu
Favorites
Switch to

Esc

No survey PDOP:2.5

Enter

You will start receiving corrections from the base and start Initializing



You Can start Measurement now

