

BASE / ROVER SETUP (Field Genius)

*make sure antennas are installed on both base and rover receivers

CONFIGURE BASE

- Turn on base receiver - Press F1 for current settings – should say UHF, Base and Channel 1
To change the Communication mode, click the F2 key two times: after she says Communications Mode, toggle through the options with F2 - Press the power button to lock in the setting
To change the Setup Mode, click the F1 key two times: after she says Mode, toggle through the options with F1 - Press the power button to lock in the setting
To change the Channel, press F2 until the “ding” sounds, Press F2 to go up by 1 or press F1 to go down by one – Press the power button to lock in the setting

CONFIGURE ROVER

Turn on the rover receiver - Press F1 for current settings – should say UHF and Rover
See above to change the Setup and Communication Mode settings
Press F2 until the “ding” sounds to verify the Channel setting – *See above to change the channel*

SCEPTER

- Turn on the data collector and start Field Genius
- Open job (or new Project) and continue
- Choose Instrument Type - GPS Reference – Instrument Profile – TKO – Click on edit
- Tolerance Settings – SVs Mask – 5, PDOP Mask – 4.00, Elevation Mask – 10 - close
- Antenna Height – TKO – Double click on Enter Measured Height to fill in height – Ok - close
- Model and Communication – Make - Champion – Model - TKO – Port – Bluetooth – Bluetooth search
- Receiver # shows up – Click on Base receiver # - Ok (*pin is optional*)
- Connect – continue
- Now in Map View – Start reference and choose one of the following three:
- Use Known Geodetic Position – Geodetic (lat/long/ellipsoid ht) or Cartesian (N/E,Ortho Ht)
- Use Average Geodetic Position – Takes average number of readings in Autonomous
- Local Transformation to Point
- Set position – yes to save – store point
- In Link Configure: Link Device – Radio Module – Click on setup beside Radio Module – Channel 1 – Transmit Power – High – Data Rate - 9600 - Ok
- Link Communication – Internal Device – Data Format – CMR+ - Station ID – Pick # - connect
- Main Menu – Settings – Instrument Selection – Choose GPS Rover – Instrument Profile – TKO - edit
- Model and Communication – Champion – TKO – Port – Bluetooth – Click on Bluetooth search
- Receiver # shows up – Click on Rover receiver # - Ok (*pin is optional*)
- Tolerance Settings – SVs Mask – 5, PDOP Mask – 4.00, Elevation Mask – 10 - close
- Antenna Height – TKO – Enter Measured Height – close
- Connect – continue
- In Link Configure: Link Device – Radio Module – Click on setup beside Radio Module – Channel 1 – Transmit Power – Low – Data Rate - 9600 - Ok
- Link Communication – Internal Device – Data Format – CMR/CMR+ - Station ID – Any
- Connect
- Go to Map View for Fixed Position
- For shutdown: in Map View – main menu – settings – instrument selection – disconnect – close – exit - yes