

# Javad Triumph – Base Configuration

You must be using FieldGenius 2010 v4.3.0 or newer.  
 This document was written using FieldGenius 2010 v4.3.0.7

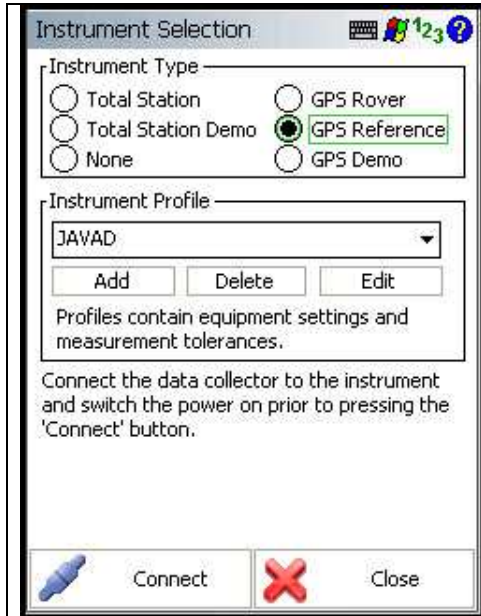
## Coordinate System Settings

### Coordinate System Settings

	<p>Access this screen by going to Start   Settings   Coordinate Systems.</p> <p>Choose the datum settings for the area the GPS receiver is in. Note: You usually need to extract the grid (geoid) files for your area before using FieldGenius.</p> <p>To do this, use the Datum Grid Editor that is available on the FieldGenius CD that was shipped with FieldGenius or download it from our Support Helpdesk.</p> <p>Ellipsoidal is sufficient when testing.</p>
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## Instrument Selection Settings

### GPS Reference Profile

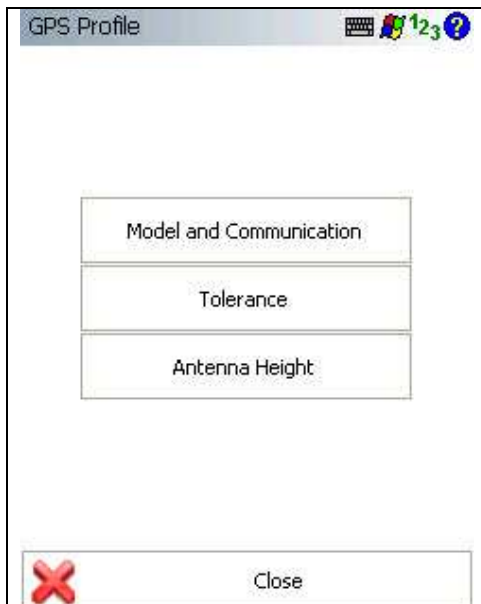


Access this screen by going to Start | Settings | Instrument Selection.

To Add or Edit a GPS Reference profile that you created during your Instrument Profile Setup- press Edit it to access the profile settings.

If you have not already created a profile, click add to add your base station, save that profile then you can go in an edit the setup.



### Model and Communication





In the following menus you will be able to setup or modify your Instrument Profile, Connection Settings, Tolerance and Antenna Height

You can return to this menu after each individual selection by tapping the "close" button





To begin editing your profile, tap on the Model and Communication

<p>Model and Communication   123 ?</p> <p>Model: <input type="text" value="Javad Triumph"/></p> <p>Status: <b>Not Connected</b></p> <p>Port: <input type="text" value="Bluetooth"/></p> <p><input type="button" value="Bluetooth Search"/></p> <p>Device: JAVAD GNSS 00370</p> <p><input type="button" value="Connect"/> <input type="button" value="Close"/></p>	<p>Pick the Javad Triumph from the Model Menu drop down. Choose your desired communications port COM 1 to 10 or Bluetooth as required. Consult your instruments setup guide to find out which COM port your device works best with and match this setting.</p> <p>Typical serial cable connection will use COM 1.</p> <p>For the purpose of this example we are using a wireless Bluetooth connection. If you have not already done so you can initiate a Bluetooth connection search by tapping "Bluetooth Search". This will allow you to find all active devices within connection range.</p>
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### Tolerance Mode

<p>Tolerance   123 ?</p> <p>SVs Mask: <input type="text" value="3.0"/></p> <p>PDOP Mask: <input type="text" value="4.00"/></p> <p>Elevation Mask: <input type="text" value="10 °"/></p> <p>Reference ID: <input type="text" value="1"/></p> <p><input type="button" value="Close"/></p>	<p>In this menu you can configure the tolerances for the base receiver requires.</p> <p>Please consult your equipment manufactures guide for variations in these settings</p>
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## Antenna Height

<p>Antenna Height   123 </p>	
Model	<input type="text" value="Triumph-1 (1)"/>
Measured Height	<input type="text" value="4.872'"/>
Measure Point	<input type="text" value="Bottom of antenna mount"/>
<p>Offsets</p>	
Measure Point to ARP - Horz	<input type="text" value="0.0mm"/>
Measure Point to ARP - Vert	<input type="text" value="0.0mm"/>
ARP to APC (L1) - Vert	<input type="text" value="111.4mm"/>
<p> Close</p>	






Select the correct antenna model from the list. There are 3 default antenna selections for the Javad Triumph unit. (each will describe it's measure point)

You should always confirm the antenna offsets to those published for your receiver.

You can always select User Defined to enter your own offsets as required.

## Connect to your Base Receiver





### Connect to the GPS Base Receiver

<p>Instrument Selection   123 </p>	
<p>Instrument Type</p>	
<input type="radio"/> Total Station	<input type="radio"/> GPS Rover
<input type="radio"/> Total Station Demo	<input checked="" type="radio"/> GPS Reference
<input type="radio"/> None	<input type="radio"/> GPS Demo
<p>Instrument Profile</p>	
<input type="text" value="JAVAD"/>	
<input type="button" value="Add"/>	<input type="button" value="Delete"/>
<input type="button" value="Edit"/>	
<p>Profiles contain equipment settings and measurement tolerances.</p>	
<p>Connect the data collector to the instrument and switch the power on prior to pressing the 'Connect' button.</p>	
<p> <input type="button" value="Connect"/>  <input type="button" value="Close"/></p>	













You are now ready to connect to your base receiver.

On the Instrument Selection screen, select your Javad GPS Reference profile and press the Connect button.

## Program the Base Position

<p><b>GPS Control</b>   </p> <p>Press the measure button at any time to configure the reference receiver with a position and to enable the transmission of corrections.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 20px;">  <span style="margin-left: 100px;">Continue</span> </div>	<p>Once you are past this screen and get back to the map screen, press the Measure button to program the base position.</p> <p>Please refer to your FieldGenius manual for an explanation of the various methods.</p> <p>The base receiver will then begin transmitting its correction messages.</p> <p>You can continue on setting up your correction link as described below or you can then disconnect your data collector from the Base receiver and move on to the Rover receiver setup.</p> <p>If you connected via Bluetooth, press the Control button then Disconnect.</p>
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## Correction Link

<p><b>Instrument Settings</b>   </p> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">  Sensor Configure         </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">  Sensor Information         </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">  Link Configure         </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">  Link Information         </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">  Position Information         </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">  Raw Data Logging         </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">  Instrument Disconnect         </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  <span style="margin-left: 100px;">Cancel</span> </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 10px;">  You can access the Link Configuration menu from the "Instrument Settings" Icon on the Map Screen         </div> <p>From this menu you will be able to affect all of your Modem and Radio configurations/settings</p> <p>Tap on the "Link Configure" menu to begin.</p>
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	<p>Most Javad units use a Digital UHF internal radio (choose from drop down menu).</p> <p>Always confirm the radio settings with your dealer.</p> <p>Select "Internal Device" from the GPS Port menu to choose the internal radio as your linking device.</p> <p>You can also choose the Data Format you wish to use such as RTCM, CMR or other.</p> <p><b>*CRITICAL STEP:</b> Both the base and rover must be set to the same message type.</p> <p>Press the <b>Setup</b> button to set the radio parameters.</p>
	<p>Here you can set your radio Frequency</p> <p><b>*CRITICAL STEP:</b> Both the base and rover must be set to the same frequency. Javad range is typically between 406 and 470 MHz</p> <p>You can choose your Protocol type from the dropdown menu provided. Javad default is Simplex.</p> <p>Should you choose to scramble your radio signal you can choose anywhere in the range from 1 to 255</p> <p>You can adjust your desired radio wattage from the drop down menu as required. Most Javad radios will function in the .3 to 1w range</p>