

May 2015

SUPPORT BULLETIN

Positioning Services

Configuring Trimble CFX-750/Case FM-750 For New Frequency and Baud Rate

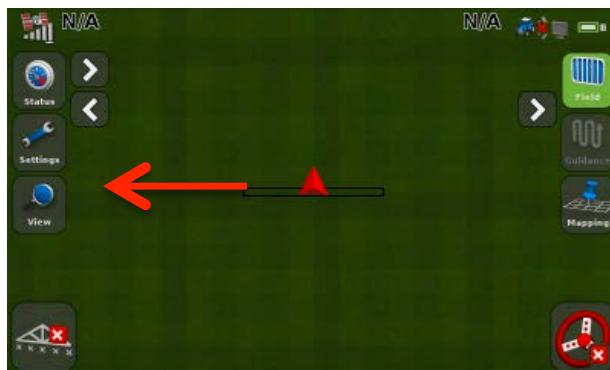
The following instructions will instruct you how to change the frequency and baud on your Trimble CFX-750/Case FM-750. To determine what new frequency and baud rate should be used in your region, please refer to www.trimble.com/sat.

Please make sure your antenna is in clear view of the sky.

Changing the Frequency and Baud Rate Settings for Trimble RTX

The following instructions will instruct you how to change the frequency on your Trimble CFX-750:


- a. Power up your CFX-750 display
- b. From the run screen (the home screen), select the Settings Button



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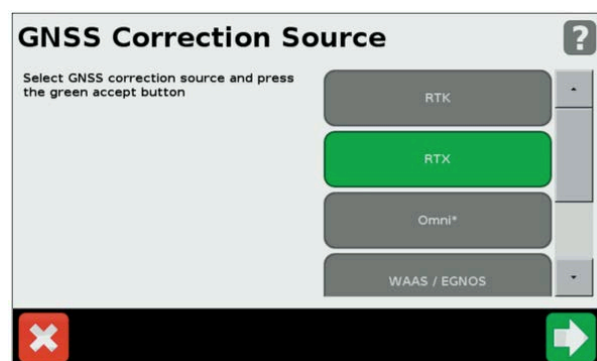
- c. From settings, select the GPS  Button



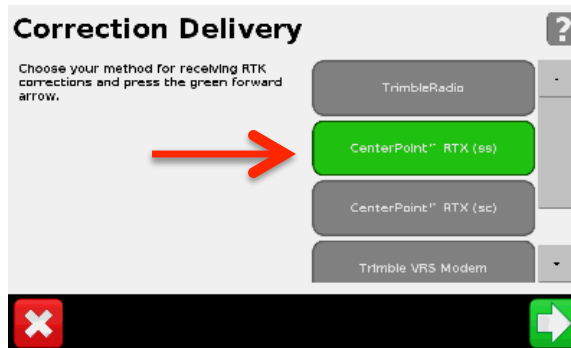
- d. On the GPS screen, select the GPS Setup button, which will take you to the GPS Correction Source screen



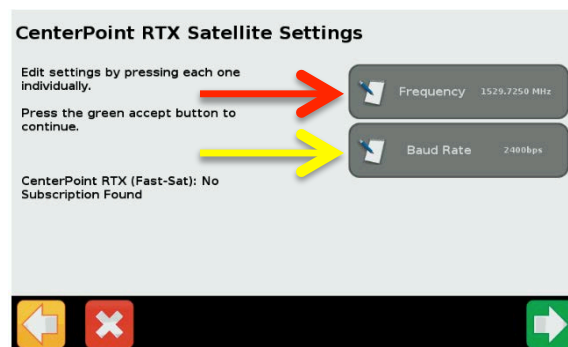
- e. On the GPS Correction Source screen, CenterPoint RTX customers should select "RTX" (The RTX button will turn green when selected.), and RangePoint RTX customers should click "RangePoint RTX". Customers using older firmware versions will need to select "RTK".



- f. (RangePoint RTX customers can skip steps f-h) On the RTK screen, scroll down and tap “CenterPoint RTX (ss)” for CenterPoint RTX standard satellite, or CenterPoint RTX (fs) for CenterPoint RTX Fast customers. (The CenterPoint RTX button will turn green when selected)



- g. After selecting the correct service, click the green arrow at the bottom right.
- h. This will bring up the CenterPoint RTX Wizard. Please read all cautions and warnings, and select the appropriate settings.
- i. First, you need to select the satellite settings. The satellite settings that need to be changed will be the Frequency and Baud Rate. The RangePoint RTX interface will look just like the screen below, except it will say “RangePoint RTX Satellite Settings”.



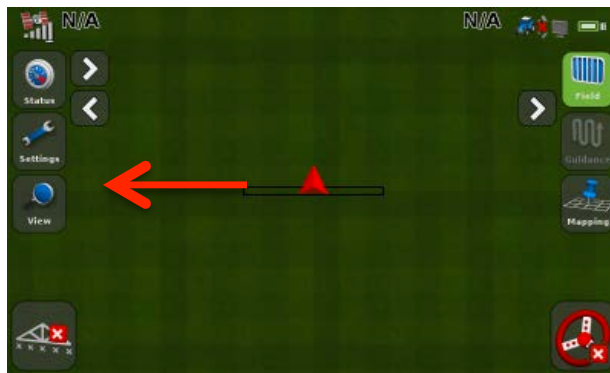
- j. Click on the “Frequency” button, and key in the correct frequency for your area. Once you’ve entered the frequency, click the green check at the bottom right portion of the screen.
- k. After returning to the Satellite Settings screen, now click on the “Baud Rate” button.

- l. There are 3 options: 600bps, 1200bps, and 2400bps. Select the appropriate baud rate for your region, and click the green arrow at the bottom right.
- m. Now select the desired Position Quality, Convergence Threshold, and Fast Restart settings.
- n. After filling in the correct satellite settings, and the desired position quality and threshold settings, click on the green arrows at the bottom right of the screen to complete the CenterPoint RTX configuration.

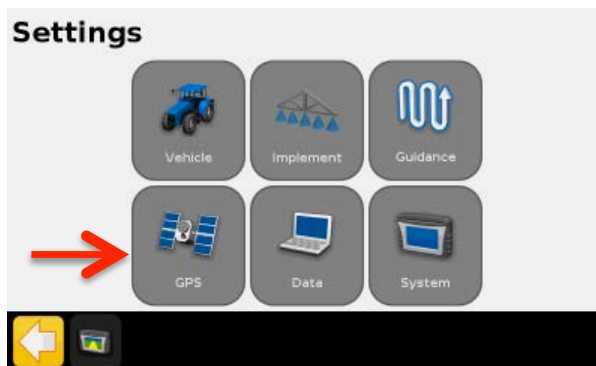
Changing the Frequency and Baud Rate Settings for OmniSTAR

The following instructions will instruct you how to change the frequency on your Trimble CFX-750:

- a. Power up your CFX-750 display
- b. From the run screen (the home screen), select the Settings Button



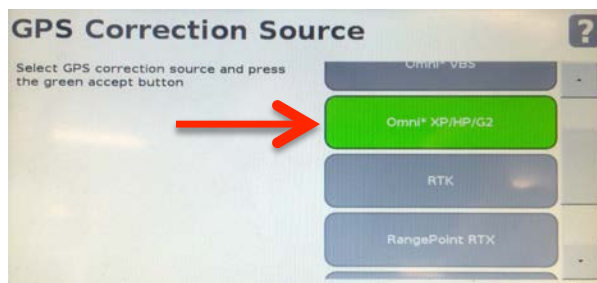
- c. From settings, select the GPS  Button



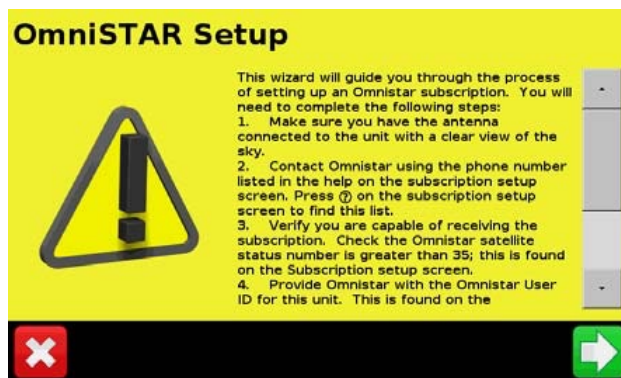
- d. On the GPS screen, select the GPS Setup button, which will take you to the GPS Correction Source screen



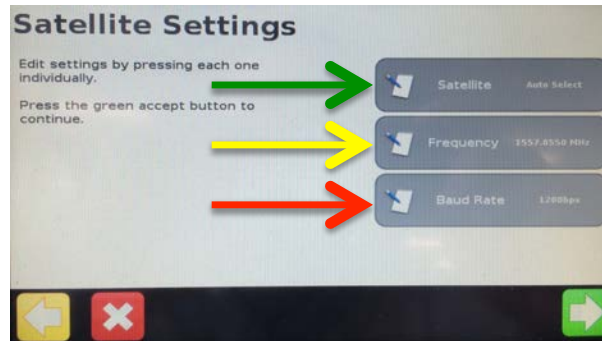
- e. On the GPS Correction Source screen, OmniSTAR customers should select "Omni* XP/HP/G2". (The button will turn green when selected.)



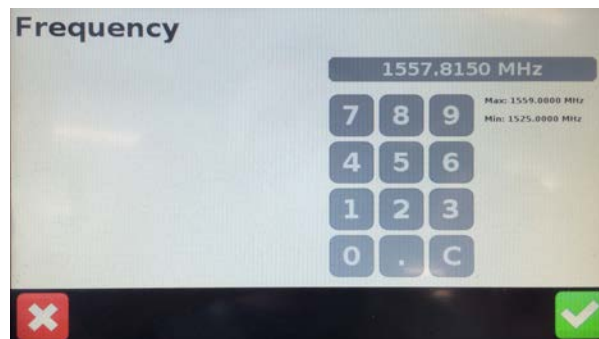
- f. After selecting the correct service, click the green arrow at the bottom right. This will bring up the OmniSTAR Setup Wizard. Please read all cautions and warnings, and select the appropriate settings.



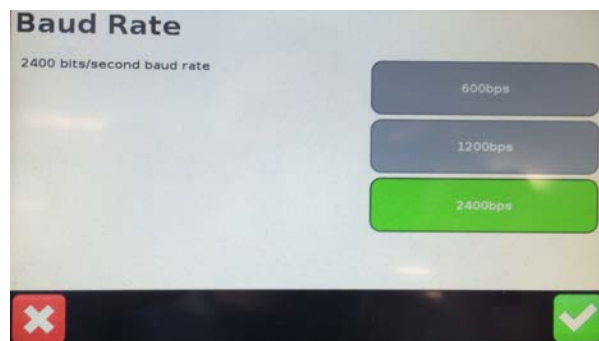
- g. You now need to select the satellite settings. The satellite settings that need to be changed will be the “Satellite”, “Frequency” and “Baud Rate”.
- h. First, click on the “Satellite” button (indicated by the green arrow in the image below), and select “Custom”.



- i. Click on the “Frequency” button (Shown with the red arrow in the image above), key in the correct frequency for your area, and click the green check at the bottom right portion of the screen.



- o. After returning to the Satellite Settings screen, now click on the “Baud Rate” button. (Indicated by the yellow arrow on page 4)




- p. There are 3 options: 600bps, 1200bps, and 2400bps. Select the appropriate baud rate for your region, and click the green arrow at the bottom right.
- q. Now select the desired Position Quality, Convergence Threshold, and Fast Restart settings.
- r. After filling in the correct satellite settings, and the desired position quality and threshold settings, click on the green arrows at the bottom right of the screen to complete the OmniSTAR configuration.
- s. On the last “Subscription Setup” screen, double-check all of the settings you selected, as well as the subscription, frequency and baud rate. If everything is correct, click on the green check/arrow at the bottom right to exit the setup wizard.

Verifying Correct Operation

Once you have reconfigured your receiver to the correct new satellite settings for your region, you can confirm that you are receiving the signal by following the steps below.

- a. Now that you have configured the device, it’s important to check that CenterPoint RTX or RangePoint RTX is configured correctly. From the Run

screen, tap the Status button  twice. A window will pop up, that will show you several settings. The most important two settings you need to check are the GPS Source and GPS Status



- b. GPS Source should show the following:
 - CenterPoint RTX Standard Satellite: CenterPoint RTX (ss)
 - CenterPoint RTX Fast: CenterPoint RTX (fs)
 - RangePoint RTX: RangePoint RTX

- OmniSTAR HP/XP/G2/VBS, or, depending on which service you are using
- c. GPS Status will start out as “Unconverged”, but should change “Converged” after a period of time. Once converged, you can begin operating. Be aware that the GPS status is dependent on your convergence threshold, so the status changing to “Converged” doesn’t necessarily mean that you have reached full accuracy. (For example the default convergence threshold is 10cm, but CenterPoint RTX has 4cm accuracy, so it will say “Converged” before CenterPoint RTX reaches 4cm accuracy) Here are the convergence times you should expect for Trimble RTX and OmniSTAR services:
 - CenterPoint RTX Standard Satellite: <30 Minutes
 - CenterPoint RTX Fast: <5 Minutes
 - RangePoint RTX: <5 Minutes
 - OmniSTAR XP and HP: <45 Minutes
 - OmniSTAR G2: <35 Minutes
 - OmniSTAR VBS: <1 Minute

For Additional Assistance

If you need additional assistance, please contact your regional Customer Care team.

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