



SUBJECT : OmniSTAR FIRMWARE UPGRADE

APPLICATION : KEE TECHNOLOGIES

DESCRIPTION : IDENTIFYING THE FIRMWARE VERSION

PROCEDURE : ZYNX X10 ZYNX X15 ZYNX X20

OmniSTAR requires your firmware on your GPS receiver to be upgraded, in order to maintain a high standard of service from your GPS receiver. (Please note this procedure is different from the Frequency Changeover to OCSAT).

KEE systems all have programs on their Zynx consoles enabling the user to see the firmware version on their receivers.

There are several different programs, depending on the age of the Zynx.

Zynx X10

These are an older console and would have three programs on the Desktop.

- TSIP Talker – for OmniLite132.
- NovaConfig – for Novatel ProPak.
- GPSTalk – for CSI products.

Zynx X15

- TSIP Talker.
- NovaConfig.
- GPSTalk.
- Zynx set up – connects to Novatel, Topcon and CSI.

The latest X15 will also have AgRemote to replace TSIP Talker.

Zynx X20

- Zynx set up.
- AgRemote.

The TSIP talker and the AgRemote programs are standard Trimble, so they should be no problem.

The NovaConfig icon is on the Desktop.

1. Double-click the program icon to start, as per normal.
2. Press the **CONNECT TO GPS** tab on the screen. This runs a script file which will automatically connect to the GPS receiver.
3. Press the **RECEIVER INFORMATION** tab on the screen. This runs a script file that will display the receiver firmware.

The GPSTalk icon is on the Desktop.

1. Double-click the program icon to start, as per normal.
2. Press the **CONNECT TO GPS** tab on the screen. This runs a script file which will automatically connect to the GPS receiver.
3. Press the **TOGGLE INPUT** button and scrolling NMEA data should be displayed under the buttons.
4. Now press the grey area on the left of the **PAUSE** button several times until it turns white and two more buttons appear.
5. Tap the white area twice and a keyboard will appear.
6. Type in \$JI (that's an I for India not a One) and then press the GPS button.
7. The receiver firmware information will appear in amongst the NMEA lines.



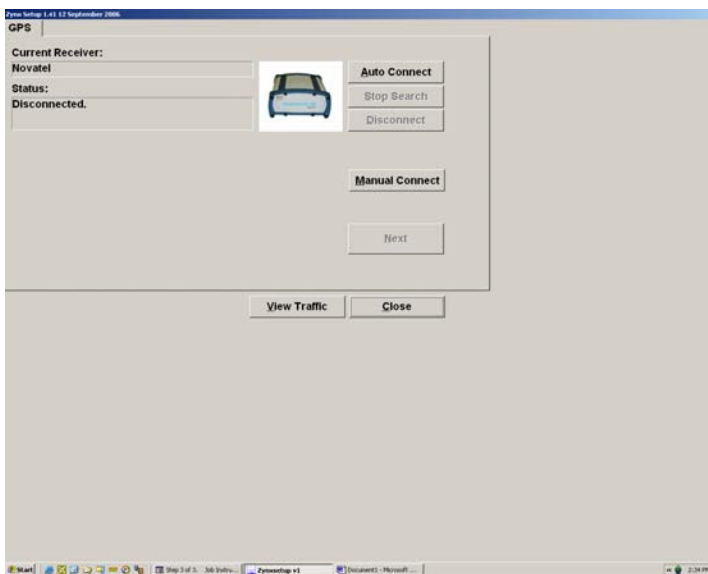
8. Press **PAUSE** to stop the data scrolling.
9. $\$>JI,822547,1,5,18072001,01/06/1980,01/06/1980,4.6,35$

The firmware version is the second last field. The version should be 4.8 or higher.

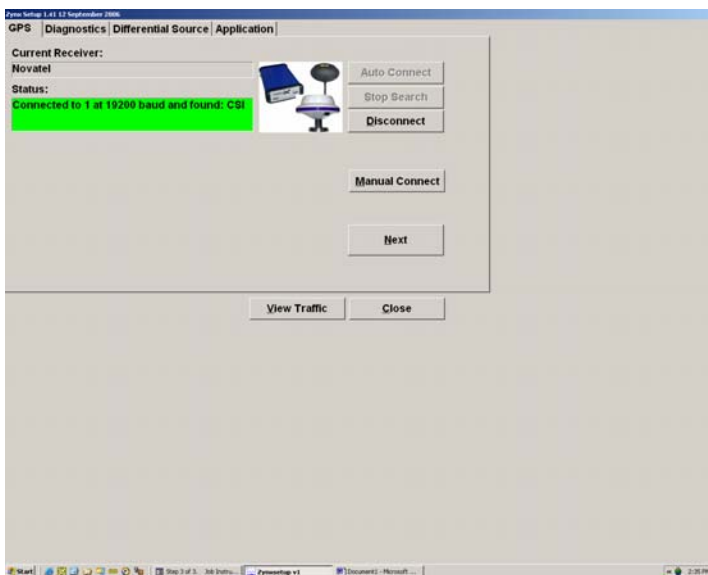
The Zynx set up is almost identical.

1. Double-click the Zynx set up icon on the Desktop – or press the **SETUP** tab on the X20 when it is loading the guidance program.
2. Press the **AUTO CONNECT** button.

Start Zynx setup and press auto connect

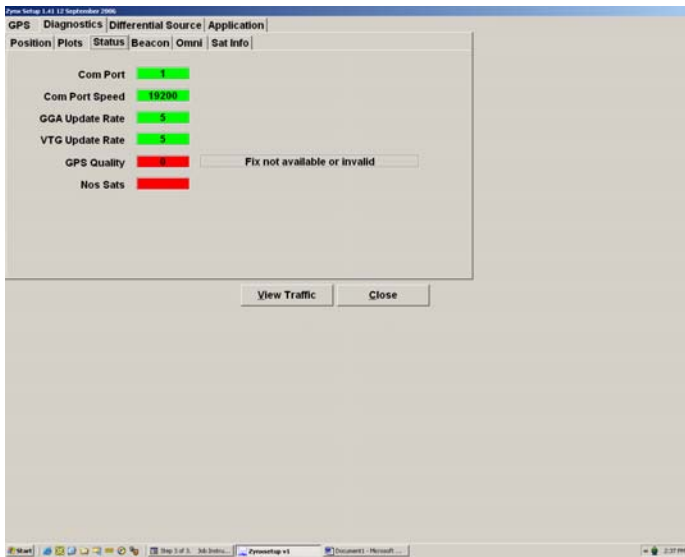


3. Once connected, as indicated by the Status dialog box press NEXT.

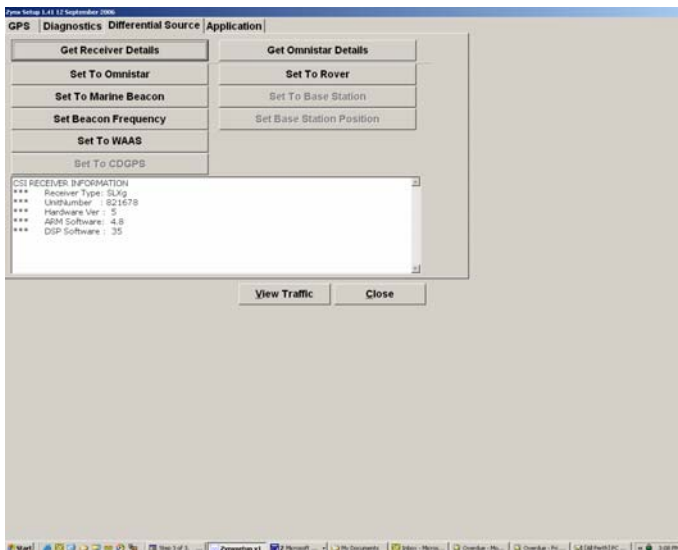




4. Now press the **DIFFERENTIAL SOURCE** tab then press the **GET RECEIVER DETAILS**.



5. The firmware version will be within the reply data.



CSI RECEIVER INFORMATION

*** Receiver Type: SLXg
*** Unit Number : 822547
*** Hardware Ver : 5
*** ARM Software: 4.6
*** DSP Software : 35



For a KEE Triple X receiver the ARM Software version needs to be 4.8 or higher

NOVATEL RECEIVER INFORMATION

*** OEM4 MODEL:"WAASHPB"
*** OEM4 Serial Number:"SVA03050018"
*** OEM4 HW Version:"OEM4g2-1.00-X2T"
*** OEM4 Firmware Version:"2.312"
*** Omnistar DSP Firmware Version:"1.004"
*** Omnistar FPGA Firmware Version:"103"

For a Novatel or OmniSTAR 8300HP receiver the OEM4 Firmware Version needs to be 2.302 of higher.

TOPCON RECEIVER INFORMATION

Receiver id: JHE2Q43GIRZ
Model: HP_BULB
board version: BULB_3
Receiver serial number: HPBU120400307
FIRMWARE VERSION: 1.3 JAN,26,2007 B3
Hardware version: 75

For a TOPCON the firmware version needs to be 1.2 or higher

Please contact OmniSTAR on 1300 794 498 if you have any problems between business hours.