

OmniSTAR Pty Ltd

CSI Generic Frequency Changeover to OmniSTAR's new service with User's Toolkit.

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

In order to change the frequency on your receiver to OmniSTAR's new service there are 4 steps you will need to follow.

These include:

1. **Change** your frequency to **1535.185MHz**.
2. **Check** the frequency on your receiver is entered in correctly.
3. **Call** OmniSTAR to activate your receiver on the new frequency.
4. **Confirm** your receiver is working on DGPS.

CHANGE YOUR FREQUENCY TO 1535.185MHz.

Refer to "OmniSTAR's Compatible Antenna Chart" which is located on the website, to confirm your antenna is compatible with OmniSTAR's new service. If your antenna is not compatible please contact OmniSTAR on **1300 794 498** for further information.

It will be necessary to download SLXMon from the following web site.

http://www.satloc.com/sup_slxg3.shtml

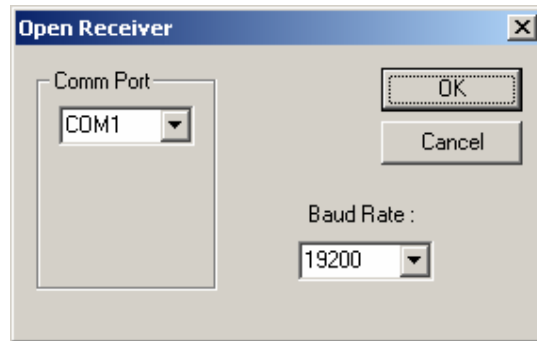
1. Connect the Data cable labelled Port B on the GEM / Kee / Satloc receiver to a serial COM port of your PC (note the COM number).
2. Run SLXmon on your PC. Select the CONNECTION icon.



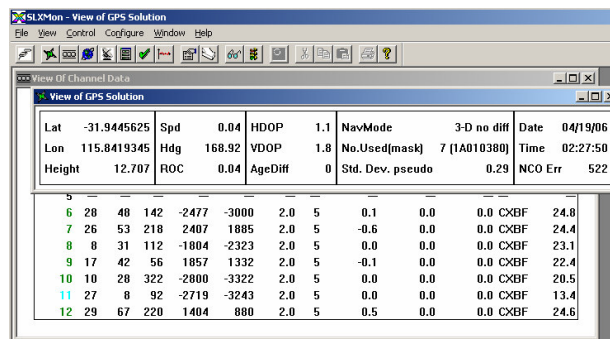
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3. The pop up window as shown right will appear. Set the COMM PORT to match the port of your PC and the BAUD rate to that of the receiver (typically 19200). If the baud rate is unknown you may need to try different rates to get the PC talking to the GPS.



4. Data will fill the VIEW windows once communications have been established between the PC and the receiver.



Lat	-31.9445625	Spd	0.04	HDOP	1.1	NavMode	3-D no diff	Date	04/19/06			
Lon	115.8419345	Hdg	168.92	VDOP	1.8	No.Used(mask)	7 (1A010380)	Time	02:27:50			
Height	12.707	ROC	0.04	AgeDiff	0	Std. Dev. pseudo	0.29	NCO Err	522			
S												
6	28	48	142	-2477	-3000	2.0	5	0.1	0.0	0.0	CXBF	24.8
7	26	53	218	2407	1885	2.0	5	-0.6	0.0	0.0	CXBF	24.4
8	0	31	112	-1804	-2323	2.0	5	0.0	0.0	0.0	CXBF	23.1
9	17	42	56	1857	1332	2.0	5	-0.1	0.0	0.0	CXBF	22.4
10	10	28	322	-2800	-3322	2.0	5	0.0	0.0	0.0	CXBF	20.5
11	27	8	92	-2719	-3243	2.0	5	0.0	0.0	0.0	CXBF	13.4
12	29	67	220	1404	880	2.0	5	0.5	0.0	0.0	CXBF	24.6

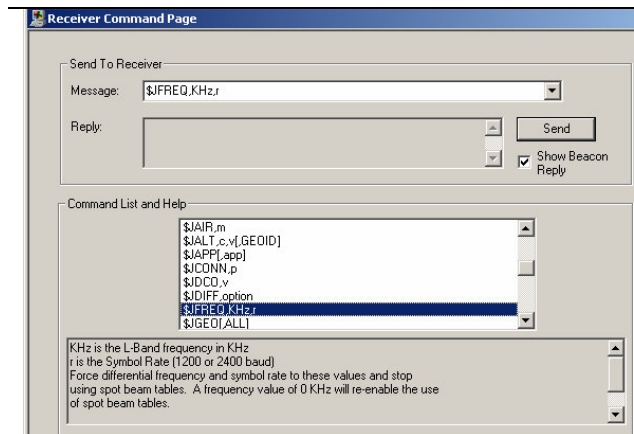
5. Select the COMMAND WINDOW from the toolbar.



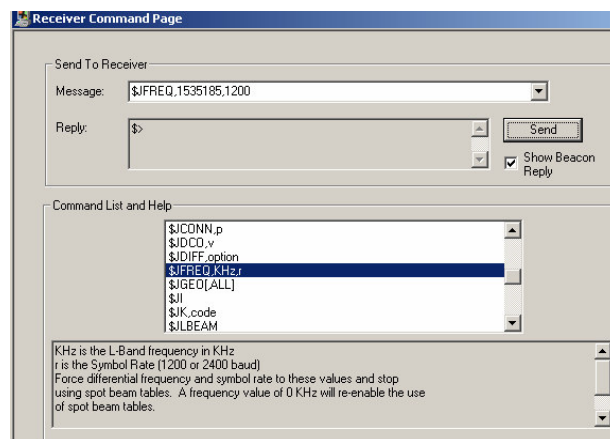
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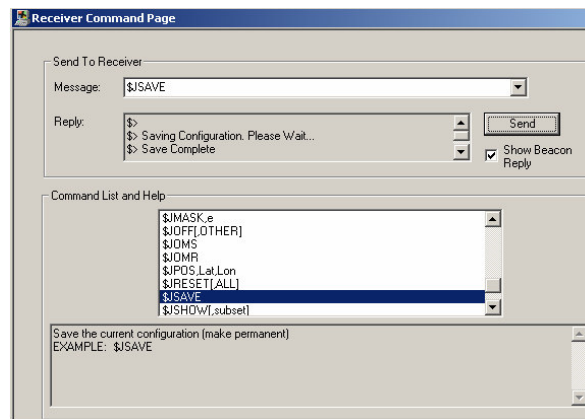
- Double click on \$JFREQ, KHz,r from the COMMAND LIST. This will place it in the message window.



- Change the command \$JFREQ,KHz,r to read \$JFREQ, 1535185, 1200. Be sure to use comas. Press SEND. \$> will appear in the REPLY window if the command is valid.



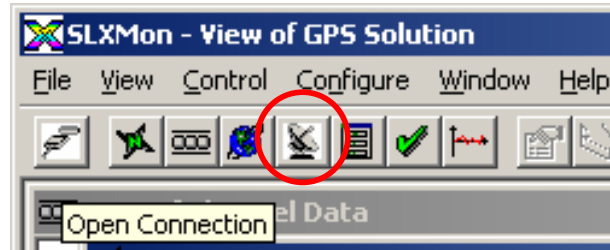
- Select \$JSAVE from the COMMAND LIST. Double click on \$JSAVE so that it appears in the MESSAGE window. Press SEND. A valid reply will be, \$>. \$> Saving Configuration. Please Wait... \$> Save Complete.




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CHECK THE FREQUENCY ON YOUR RECEIVER IS ENTERED IN CORRECTLY

9. Select the L-BAND icon from the Toolbar. The VIEW L-BAND DIAGNOSTIC window will appear.



- 10.

A screenshot of the "View of LBand Diagnostics (Diag1)" window. The window contains a table with diagnostic data. The "Bit Err Rate(BER)" value is 0, and the "L-Band AGC" value is 120, both of which are circled in red. The "Spot Beam Freq" value is 1535.1850, also circled in red. The table also shows "LSP-ARM Status" as 1F-25, "DIFF Status" as 100, "DDS Hz" as -690.2, "Nav Condition" as 7AAAA, and "Doppler From GEO" as 0. The timestamp "04/19/06 02:53:21" is also visible.

Bit Err Rate(BER)	0	LSP-ARM Status	1F-25	Spot Beam Freq	1535.1850
L-Band AGC	120	DIFF Status	100	DDS Hz	-690.2
L-Band UTC	04/19/06 02:53:21	Nav Condition	7AAAA	Doppler From GEO	0

BITE RATE ERROR (BER) 0 to 5 and L-BAND AGC of 100 to 120 indicates a good reception.

Please contact OmniSTAR on 1300 794 498 between business hours.