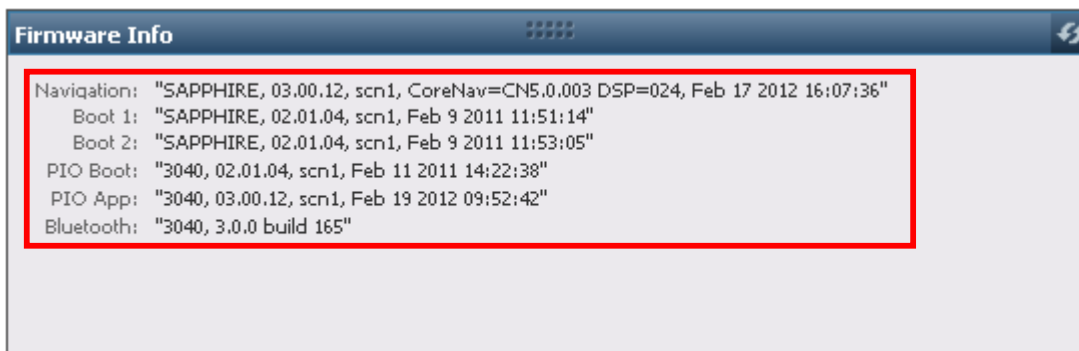


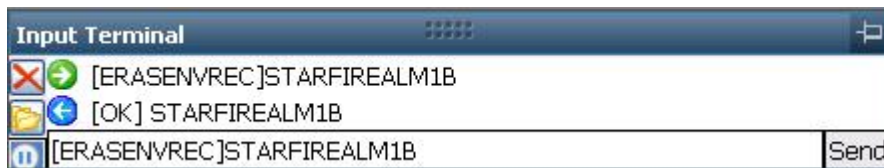
This guide will step you through StarFire tracking problem after updating firmware from v1.x.x.x or v2.x.x.x to v3.0.12.0 for Sapphire, SF-3050, and SF3040 receivers via NavCom's StarUtil-3000 program.

If unable to track StarFire Satellites after updating firmware perform the steps below to begin tracking StarFire.

1. After successfully updating receiver firmware to v3.0.12.0, issue the following commands from the StarUtil-3000 Input Terminal.



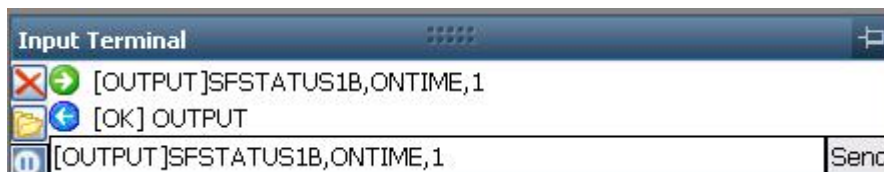
2. Send a '[ERASENVREC]STARFIREALM1B' command.



3. Send a '[RESET]' command.



4. Send a '[OUTPUT]SFSTATUS1B,ONTIME,1' command to enable the StarFire Status message.



5. Select 'StarFire' under 'Detailed Views'.



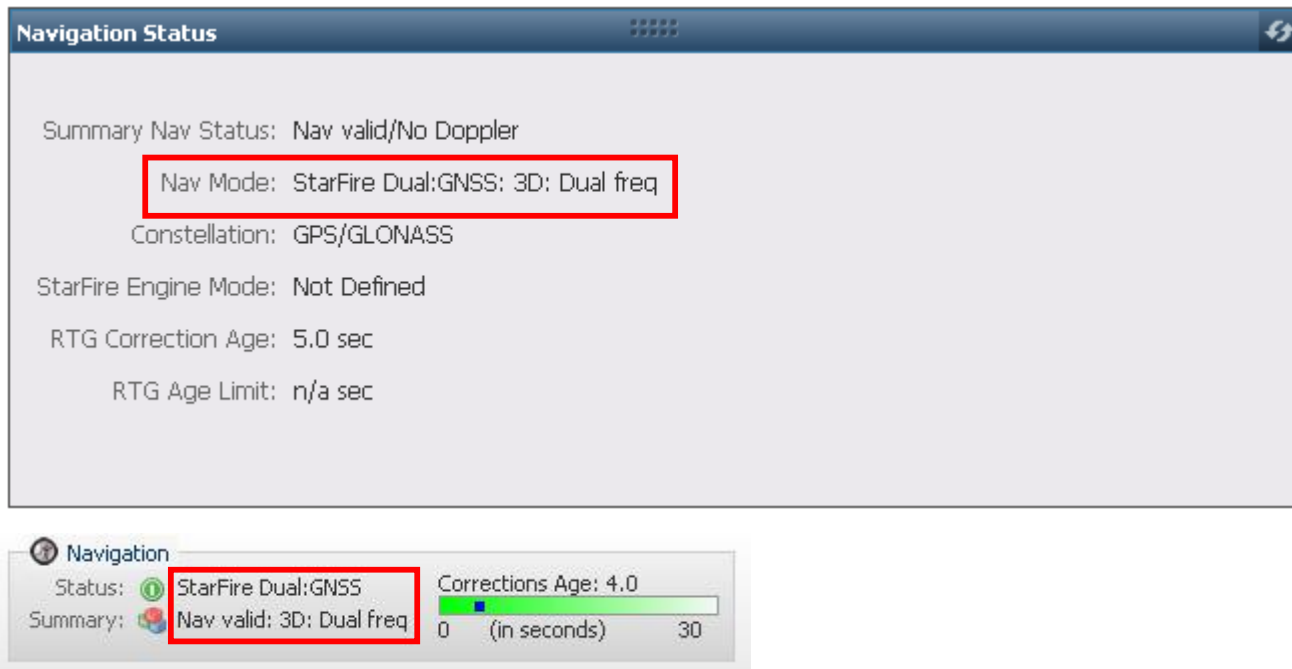
6. Allow 3 minutes for receiver to start tracking a StarFire Satellite. Click the 'Refresh' arrows one time on the StarFire display. The StarFire Signal bar will display tracked signal strength. Typically 0-5dB/Hz is considered weak, 5-8dB/Hz is normal, and 8>dB/Hz is Excellent.

The image shows two screenshots from the software. The top screenshot is titled 'StarFire' and features a signal strength bar on the left with a scale from 0 to 24. The bar is currently at 8.60, which is highlighted with a red box. To the right is a world map showing satellite coverage. A refresh icon in the top right corner is also highlighted with a red box. Below the map, it says 'Sat. ID: 402'. The bottom screenshot is titled 'Satellite Locations' and contains a table with the following data:

ID	Angle	Longitude	Licensed?	In-Use	Select
402	< 45	-98.0	Yes	●	<input checked="" type="checkbox"/>
446	< 12	-54.0	Yes	●	<input type="checkbox"/>
484	< 0	-15.5	Yes	●	<input type="checkbox"/>
525	< 0	25.0	Yes	●	<input type="checkbox"/>
564	< 0	64.0	Yes	●	<input type="checkbox"/>
643	< 0	143.5	Yes	●	<input type="checkbox"/>
678	< 13	178.0	Yes	●	<input type="checkbox"/>
Auto					<input type="checkbox"/>

7. Allow the receiver to navigate for a minimum of 1 hr 20 minutes to ensure it collects a new StarFire almanac.

- To verify the receiver is navigating in StarFire mode check the 'Navigation Status' window in the PVT message or 'Navigation' on the Dashboard.



Contact your dealer for troubleshooting support if this does not recover StarFire tracking.