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 the 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.

7. Allow the receiver to navigate for a minimum of 1 hr 20 minutes to ensure it collects a new StarFire almanac.
8. To verify the receiver is navigating in StarFire mode check the ‘Navigation Status’ window in the PVT message or ‘Navigation’ on the Dashboard.

<table>
<thead>
<tr>
<th>Summary Nav Status: Nav valid/No Doppler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nav Mode: StarFire Dual:GNSS: 3D: Dual freq</td>
</tr>
<tr>
<td>Constellation: GPS/GLONASS</td>
</tr>
<tr>
<td>StarFire Engine Mode: Not Defined</td>
</tr>
<tr>
<td>RTG Correction Age: 5.0 sec</td>
</tr>
<tr>
<td>RTG Age Limit: n/a sec</td>
</tr>
</tbody>
</table>

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