

ENGINEERING CHANGE NOTIFICATION FORM

ECN: 80200576	REV: 1	ISSUE DATE: 4/19/2019						
TYPE OF CHANGE: Firmware Modification								
DETAILED DESCRIPTION OF CHANGE: Firmware release 2.49 for GPS-500 for bug fixes and functionality improvements in uBlox receiver compatibility.								
REASON FOR CHANGE: Bug fixes and functionality improvements.								
PRODUCTS AFFECTED: <table border="1" data-bbox="126 688 1458 760"> <thead> <tr> <th>Firmware Version</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td>Firmware 2.45 and previous</td> <td>GPS-500</td> </tr> </tbody> </table>			Firmware Version	Model	Firmware 2.45 and previous	GPS-500		
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Notes:								
AVAILABILITY: <table border="1" data-bbox="126 823 1458 886"> <thead> <tr> <th>MILESTONE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>ECN release for firmware release files</td> <td>4/19/2019</td> </tr> </tbody> </table>			MILESTONE	DATE	ECN release for firmware release files	4/19/2019		
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Release 2.49 for GPS-500 provides the following improvements:								
Issue 1: <p>The GPS-500 may output incomplete \$GPRMC message due to NULL ('\0') value in RMC status field caused by incompatible UTC time parsing of \$GPRMC message from uBlox receiver when receiver reset event is triggered.</p>								
Resolution: <p>Firmware 2.49 fixes this issue by correcting and ensuring no NULL value is allowed in all NMEA outputs before printing. Firmware 2.49 also fixes the NMEA parsing compatibility issue and adds checking for valid UTC time and status fields.</p>								
Issue 2: <p>The internal clock of GPS-500 will not update properly from start-up until a GPS fix and UTC time is available if SYNC:OUT:1PPS:RESET? command is configured to OFF.</p>								
Resolution: <p>Firmware 2.49 fixes this issue. Units with SYNC:OUT:1PPS:RESET ON command configured are not affected by this issue.</p>								
REFERENCE DOCUMENTS/ATTACHMENTS:								
<table border="1" data-bbox="126 1627 1458 1736"> <thead> <tr> <th>CONTACTS</th> <th>NAME</th> <th>EMAIL</th> </tr> </thead> <tbody> <tr> <td>Software Engineer</td> <td>Yun Lan</td> <td>yun@jackson-labs.com</td> </tr> </tbody> </table>			CONTACTS	NAME	EMAIL	Software Engineer	Yun Lan	yun@jackson-labs.com
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Software Engineer	Yun Lan	yun@jackson-labs.com						

PLEASE CONTACT JACKSON LABS TECHNOLOGIES, INC. WITH ANY QUESTIONS