Trimble GNSS OEM RECEIVERS

This document contains late-breaking product information, updates, and troubleshooting tips not covered in the Trimble® GNSS OEM receivers' documentation.

- Introduction
- Upgrade Procedure
- New Features and Changes
- Legal Notices

Introduction

These Release Notes describe improvements made since version 5.44 to the following Trimble GNSS OEM receivers:

- BD940
- BD940-INS
- BX940
- BD970
- BD982
- BX982
- BD992
- BD992-INS
- BX992

To use the new firmware, you must have a valid firmware warranty. You can check the Firmware Warranty Date using the web interface. Make sure the date shown is 1 November 2018 or later. Alternatively, obtain the warranty date from the WinFlash software. Select **Verify receiver options** and ensure the **Firmware Option** is 1 November 2018.

For further support information, go to https://www.trimble.com/support/support_az.aspx#B. Select your BD/BX receiver and click **Support**.

Version 5.45 Revision A March 2020



Upgrade Procedure

There are two ways to load the new firmware:

- Use the WinFlash utility (BD9xx WinFlash v54X.zip) downloaded from the Trimble website.
- Use the web interface of the receiver to load the firmware image file downloaded from the Trimble website.

New Features and Changes

The following improvements have been made to the Trimble GNSS OEM receivers.

- BeiDou system improvements:
 - Updated binary output messages to support B1C and B2A signals.
 - Implemented tracking, logging, and streaming of B2b signals.
 - The ephemeris is now stored even if it is unhealthy and parameters are missing.
 - BeiDou-to-UTC time conversion parameters are now stored.
- Updated to NOAA World Magnetic Model 2020 for magnetic declination and magnetic heading outputs.
- Updates to NMEA 2000 message outputs.
- Added new binary output message that always outputs pseudorange-based positions.
- Fixed an issue where the dynamic model was not populated when using clone files.
- Updated the default RTX satellite list.

Documentation updates

The latest documentation can be found online at https://www.trimble.com/support/support_az.aspx#B. Select your BD/BX receiver and click **Support**.

Legal Notices

Trimble Inc. Engineering and Construction 5475 Kellenburger Road Dayton, Ohio 45424-1099 USA 800-538-7800 (toll free in USA) +1-937-245-5600 Phone +1-937-233-9004 Fax www.trimble.com

Copyright and Trademarks

© 2020, Trimble Inc. All rights reserved.

Trimble, and the Globe & Triangle logo are trademarks of Trimble Inc., registered in the United States and in other countries. All other trademarks are the property of their respective owners.

Release Notice

This is the March 2020 release (Revision A) of the GNSS OEM Receivers' Release Notes. It applies to version 5.45 of the Trimble GNSS OEM receivers.