



Dec 17th, 2020

GPS Rollover in June 2021

Summary:

A GPS rollover will occur on Jun 20, 2021. The following Furuno Equipment will be affected:

Model	Built-in Core	Applicable GPS Program No.
GP-80, GP-90/DUAL, GP-1640/F GP-1650W/WD/WDF/WF, GP-1850W/WD/WDF/WF	GN-8091C/D	4850237***
GP-32/37	GN-8091 (chip set)	2051412***
GP-320B	GN-8092C	4850238***
GP-3500/F	GN-8091C/D, GN-8092C	4850237*** , 4850238***

Remedy:

GP-3500/F: New software to solve the problem is available

For the other models, retrofit is recommended

Detailed information:

GPS week number rollover

The GPS system is synchronized to a different time scale than Coordinated Universal Time (UTC) and calculates time by counting the number of weeks up to 1,023rd week. After week 1,023, the week number count is reset to zero. This is called "GPS week number rollover". Subsequently, the erroneous date information on the GPS receiver clock may cause the positioning to become fixed temporarily on this date.

Temporary remedy

To resolve this, perform a cold start of the equipment via the operating menu or reboot the device.

Model	Cold Start procedure
GP-80	[MENU]→ [9] → [9] → [Clear GPS] → [Yes]→[ENT]
GP-90/DUAL	[MENU]→ [9] → [9] → [Clear GPS] → [Yes]→[ENT]
GP-1640/F	[MENU]→[CONFIGURATION]→ [SYSTEM MENU] →[MEMORY/TRIP CLEAR] → [CLEAR GPS MEMORY]
GP-1650W/WD/WDF/WF	[MENU]→[CONFIGURATION]→ [SYSTEM MENU] → [MEMORY/TRIP CLEAR] → [CLEAR GPS MEMORY]
GP-1850W/WD/WDF/WF	[MENU]→[CONFIGURATION]→ [SYSTEM MENU] → [MEMORY/TRIP CLEAR] → [CLEAR GPS MEMORY]
GP-32/37	[MENU]→[ERASE]→[ENT]→ [GPS DATA?] →[ENT]
GP-320B	-When NAV1 is connected, it can be checked from [GPS SENSOR SETTINGS]. -When NAV1 is not connected, see the appendix.
GP-3500/F	[MENU]→ [0] SYSTEM SETUP→ [6] TEST & MEMORY CLEAR→ [5] GPS COLD START