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Guidance

# Safety Bulletin 24 – Furuno navigation & communication equipment (incl GMDSS) - GPS week number rollover

Published 14 December 2021

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## Summary of issue

The Maritime & Coastguard Agency would like to make operators aware that products with Furuno Global Positioning System (GPS) chips for position or UTC (Coordinated Universal Time), may produce an error on January 2nd, 2022. The problem affects products listed in Annex 1 and includes navigation and communication equipment.

Stand-alone Furuno GPS receivers and equipment using Furuno GPS chips, could produce data that is 19.7 years in the past, therefore generating errors in both the GPS position and date (19th May 2002).

The 19.7 year date error may result in instability in positioning, causing position errors, including failure of GPS position acquisition, etc.

## Actions to take

1. Cold-start the equipment through the operating menu. The procedure for each affected equipment is stated in Annex 2. Please note, although you should reacquire the GPS position, date information cannot be restored by cold-starting;
2. If GPS position is not reacquired after cold-starting, the problem may stem from failure of the equipment itself not from GPS week number rollover. If this is the case, contact a nearby Furuno authorised marine electronics dealer;
3. To restore the correct date for the models with an available remedy, contact a nearby Furuno authorised marine electronics dealer to replace the GPS receiver inside the device or update the software/firmware (both for a fee);
4. If there is no available remedy for your model it is likely that the equipment will need replacing entirely. If this is the case, contact a nearby marine electronics specialist.

## Legal requirements

Owners are responsible for the correct operation and maintenance and should contact Furuno for advice.

## Further information

See Furuno UK website for the latest information: [https://support.furuno.co.uk/en\\_US/news/gps-rollover-january-2022](https://support.furuno.co.uk/en_US/news/gps-rollover-january-2022) ([https://support.furuno.co.uk/en\\_US/news/gps-rollover-january-2022](https://support.furuno.co.uk/en_US/news/gps-rollover-january-2022))

## Related Documents

Safety Bulletin No.13 – 19th February 2019

## Annex 1

### SAFETY BULLETIN 23 – Annex 1

Affected models:

<b>GPS Unit</b>	<b>GPS Core</b>	<b>Remedy</b>
GP-80	GN-8096C/D : 4850264 GN-8097C/D : 4850296	No remedy available
GP-90	GN-8096C/D : 4850264 GN-8097C/D : 4850296	No remedy available
GP-150	GN-8096C/D : 4850264 GN-8097C/D : 4850296	Update to V4.05
GP-1640	GN-8096C/D : 4850264 GN-8097C/D : 4850296	No remedy available
GP-1650	GN-8096C/D : 4850264 GN-8097C/D : 4850296	No remedy available
GP-1850	GN-8096C/D : 4850264 GN-8097C/D : 4850296	No remedy available
GP-7000	GN-8096C/D : 4850264 GN-8097C/D : 4850296	No remedy available
GP-3500	GN-8096C/D : 4850264 GN-8097C/D : 4850296	Update to V6.03
GP-70 Mk2	GB-97 (GN-8098) : 4850311	No remedy available
GP-188	GB-97 (GN-8098) : 4850311	No remedy available

<b>GPS Unit</b>	<b>GPS Core</b>	<b>Remedy</b>
GP-280/380/680	GB-97 (GN-8098) : 4850311	No remedy available
GP-8000	GB-97 (GN-8098) : 4850311	No remedy available
PS-8000 Mk2	GB-97 (GN-8098) : 4850311	No remedy available
FRS-1000	GB-97 (GN-8098) : 4850311	No remedy available
GP-1800	GB-97 (GN-8098) : 4850311	No remedy available
GP-500 Mk2	GB-97 (GN-8098) : 4850311	No remedy available
GP-3100 Mk2	GB-97 (GN-8098) : 4850311	No remedy available
GP-3300	GB-97 (GN-8098) : 4850311	No remedy available
GP-32	GN-8093 : 4850264	No remedy available
GP-37	GN-8093 : 4850264	No remedy available
GP-33 *Serial Numbers Before : 6412-8194	GN8093D/E/F/G/H : 4850264	Update to V2.04
GP-32B	GH-8299	No remedy available
GP-330B *Serial Numbers Before : 4457-7001	GH-8299	No remedy available
WS-200	GH-8299	No remedy available
FA-50	GN8093D/E/F/G/H : 4850264	Update to V2.02

<b>GPS Unit</b>	<b>GPS Core</b>	<b>Remedy</b>
FA-150	GN8093D/E/F/G/H : 4850264	Update to V4.07
SC-30	GN8094C/D/E/F/G : 4850263	Update to V3.03
SC-50/110	GN8094C/D/E/F/G : 4850263	Update to V2.02
**FELCOM-15/16	GN8097B/C/D : 4850296	Update to V3.13 / V5.07
**FELCOM-18 *Serial Numbers Before : 4507-4045	GN8097B/C/D : 4850296	Update to V1.20
**FELCOM-19 *Serial Numbers Before : 3599-2507	GN8097B/C/D : 4850296	Update to V1.20
** FELCOM-15 / FELCOM-16 / FELCOM-18 / FELCOM-19 – These units will only be affected by the GPS Rollover event if they are using the built in GPS receiver. If these units are connected to external GPS data, no action required.		

## Annex 2

### SAFETY BULLETIN 23 – Annex 2

Cold start procedure:

<b>Model</b>	<b>Procedure</b>
GP-70MK2	Menu > 0 > NEXT > NEXT > Down Arrow > Reverse Mark > ENT
GP-188	Menu > 9 > 9 > 0 > 9 > 1 > 8 > 8 > ENT
GP-80	Menu > 9 > 9 > Clear GPS > Yes > ENT
GP-90	Menu > 9 > 9 > Clear GPS > Yes > ENT
GP-150	Menu > 9 > 9 > Clear GPS > Yes > ENT

<b>Model</b>	<b>Procedure</b>
GP-1640	Menu > Configuration > System Menu > Memory/Trip Clear > Clear GPS Memory
GP-1650 / GP1850	Menu > Configuration > System Menu > Memory/Trip Clear > Clear GPS Memory
GP-280 / GP-380 / GP-680	Menu > 9 > 2 > Cold Start > Yes
GP-1800	Menu > 9 > Clear Memory > GPS > ENT *Then turn power off / on
GP-500 Mk2	Menu > 9 > 6 > CLR > 1 > ENT
FRS-1000	PLTR MENU/ESC > 0 > 7 > Page 4 “Back to Defaults” > GPS RCVR > ENT > ENT
PS-8000 Mk2	PLTR MENU/ESC > 0 > 7 > Clear Memory > GPS > ENT > ENT
GP-7000	Menu > Advanced > Input/Output > Internal GPS setup > Restart GPS
GP-8000	Menu > 8 > Down Arrow > Clear Memory > All
GP-3100 / GP-3300	Menu > 8 > GPS Initial Settings > Cold Start > Yes
GP-3500	Menu 0 > 6 > 5 > GPS Cold Start
GP32 / GP-37	Menu > Erase > ENT > GPS Data > ENT > Erase GPS Data > Yes > ENT
GP-33	Menu > System > ENT > Reset > ENT > GPS > ENT > On > ENT > Yes > ENT
GP-320B	When NAV1 is connected it is available from “GPS Sensor Settings”
GP-330B	Unit activates a Cold Start at every start up
WS-200	Unit activates a Cold Start at every start up
FA-50	Cold Start from Menu is not available
FA-150	Menu > Diagnostics > Memory Clear > GPS Cold Start
SC-30	Unit activates a Cold Start at every start up



Model	Procedure
SC-50 / SC-110	Menu > Erase > GPS Data > Yes > ENT
FELCOM-15/16	Cold Start from Menu is not available
FELCOM-18/19	Cold Start from Menu is not available



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