Tron AIS TR-8000 compatibility (mkI vs mkII)

Part 1) Firmware versions

Jotron recertified our Tron AIS TR-8000 in the summer 2014 to be compliant with latest specifications from ITU (ITU.R 1371-5) and IEC (IEC61993-2{Ed2}) and in 2021 to be compliant with IEC (IEC61993-2{Ed3}:2018) together with new Bridge Alert Management (BAM) standards IEC62923-1:2018 and IEC62923-2:2018.

Therefore, it is critical that both Transponder unit and Display unit uses same "main" versions of Firmware to be able to communicate

TR-8000	Transponder Firmware	Display Firmware	Full Compatibility
mkI	01.00.x	01.00.x	✓
	01.01.x	01.01.x	✓
mkII	01.02.x	01.02.x	✓

So, if either Transponder or Display is replaced with a new one, or Firmware is only upgraded on one of the units, make sure that both uses the same "main" versions of Firmware.
(Same "main" version means that the 4 first digits in the Firmware version are the same)

NOTE!
Tron TR-8000 mkII Display unit can be Firmware Downgraded to v.01.01.x be used with mkI Transponder, but TR-8000 mkI Transponder unit cannot be Firmware upgraded to mkII due to HW differences between transponder units, mkI and mkII, see more info below.

If your Firmware is incompatible according to table above, please contact your Dealer/Distributor to upgrade unit(s).

Firmware is available for Dealers/Distributors on our web: https://jotron.com in "Download" section under each product.

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Part 2) Hardware, Transponder

Most parts of the hardware would be equal, but there are some important changes to Transponder in mkII from September 2021:

Transponder Version	RS232 port	RS422 ports (High speed-Ext Display compatible)	Blue Sign (Hardware-Software compatible)	Internal Navigation Device
P/N 85300 "mkI" (2011 to 2021)	✔	2	✖	GPS
P/N 103650 "mkII" (Sept. 2021 ->)	✖	4	✔	GPS
P/N 103680 "mkII" (Sept. 2021 ->)	✖	4	✔	GLONASS

Therefore, as explained also on previous page, it is NOT POSSIBLE to upgrade Tron TR-8000 transponder unit mkI (85300) to mkII

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