



## **TECHNICAL BULLETIN TB07-2009**

Regarding: Tron AIS-SART Test Procedure, rev.14.03.2011

To do a successful test of Tron AIS-SART, do the following

- 1. Test must be conducted outdoors with a clear view to the sky to maximize GPS location.
- **2.** Move the switch to "TEST" position until the LEDs start flashing.

Tron AIS-SART will now run through a self test procedure. If a Red LED flashes, it is indication of critical faults. See table below for error codes.





- 3. Release the switch when both LEDs start flashing. The unit will now search for GPS position for maximum 15 minutes.
- **4**. A successful test is indicated by 15 second beep and Green LED . See next page for description of indication on a AIS transponder/ Electronic chart etc



- **5**. An unsuccessful test is indicated by 15 second beep and Red LED. Please relocate the unit and restart test.
- **6.** To cancel ongoing test, hold the switch on the Tron AIS-SART in the "TEST" position until the buzzer starts to beep.



Number of Red	Fault indication	
	Fuuit iliuicution	
LED flashes		
2	Transmitter Power failure	
3	Low battery	
4	Transmitter Frequency Failure	
5	ID Code not programmed	
6	Undefined: Contact Jotron	
7	Internal communication failure	

Error codes if RED flash in"2."

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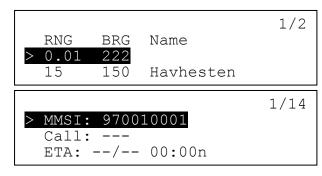
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- 7. To conduct a complete test of a Tron AIS-SART, reception on the ships AIS transponder should also be checked. Today (March 2011), most AIS transponders installed are not compliant with AIS-SART, but will still receive them as another ship, both with ID code, Position, Range, Bearing, and Text message
  - Reception an a non AIS-SART compliant AIS transponder:

o will be shown as a ship without name, with MMSI (here "ID code"), range, bearing and

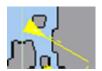
position:



- Some AIS transponders will show MMSI (here "ID code") when no vessel name is received
- o In addition, a text message will be received:



- Reception an a non AIS-SART compliant electronic chart (ECS/ECDIS):
  - o will be shown as a ship



With the same text message received: SART TEST



## Reception on a AIS-SART compliant AIS transponder/AIS receiver:

The requirement of reception/visibility on an AIS-SART compliant AIS transponder:

There shall be a separate menu item in the AIS to activate reception of AIS-SART in "TEST"

• Furuno FA-150 implementation: [USER SETTINGS] -> DISP SART TEST = ON

## When this function is activated:

AIS-SART will be shown on top of the list with vessel name SART TEST since this is an
emergency product to show ships/people in Distress. (Normally this list is sorted on
range, but AIS-SART has higher priority than normal vessels)
AIS-SART will be shown with ID, Range, Bearing and Position:

				1/2
	RNG	BRG	Name	
>	0.01	222	SART TEST	
	15	150	Havhesten	
1				1/14
>	MMSI:	9700	10001	1/14
>	MMSI: Call:	9700	10001	1/14

• In addition, a text message will be received:

Menu Message		1/2
> 97001001:SART	TEST	

- AIS will forward message received from AIS-SART to ECDIS/ ARPA Radar or other chart plotter
- Reception on a AIS-SART compliant electronic chart (ECS/ECDIS):

Even though the AIS transponder is not AIS-SART compliant, the electronic chart may show the correct symbol when receiving an AIS-SART in "TEST" or "ON" if it is updated to the latest revisions defined below:

 will be shown with this special symbol as defined here:



Ø ON

ON (DISTRESS)

as in SN.1/Circ.243/Add.1 and in lates revision of IEC 62288:

An AIS Search And Rescue Transponder (SART) shall be presented as a circle with an "X" inscribed inside it. The circle shall be 5 millimetres in diameter. The symbol shall be drawn using a thick dashed line style with the colour red.

The symbol shall flash until acknowledged by the user.

Once acknowledged, the symbol shall cease flashing.

With the same text message received: SART TEST

NB!

The symbol for TEST is not internationally agreed and may be implemented differently