

CHAPTER 7. TROUBLESHOOTING

This chapter explains how to identify trouble locations when the radar is found faulty and how to request repair.

If it happens any disorder, keep pressing POWER key for 3 sec. to power off. Then wait over 10 sec., when you power on again.

If you find the radar is faulty, check it the following procedure described below. If you find as a result of inspection that the fault cannot be repaired on board, contact your distributor for repair.

For faster service, please let us know about followings when you request repair:

- (1) Ship's name, place of anchorage, allowable repair period or time
- (2) Radar type (This radar is RA40C, RA41C or RA42C.)
- (3) Manufacturing number (indicated on the back of the display unit)
- (4) Fault symptoms and inspection results



WARNING

There are high voltage circuits inside of this radar. Do not attempt to open the rear cover of display unit or disassemble internal parts. When you open the radome for installation, power must be off. Even power switch is OFF, this radar is still supplied power inside.

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7.1 Fault Diagnosis by Self-check_____

The radar incorporates a failure diagnostic function (called "self-check") to diagnose faults by the equipment itself.

Refer to "5.5.4.4 Fault Diagnosis by Self Check (SYSTEM CHECK)" and check whether there is any fault in your radar.

7.2 Inspecting Each Part_____

When you have finished self-check, inspect each part of the radar according to Tab.7-1.

Tab. 7-1 Troubleshooting

Symptom	Cause	Corrective action
(1) Radar cannot be powered on.	Power cable is disconnected.	Connect power cable correctly.
	Power supply voltage is off specified value	Use Specified power supply. (See Section 3.2)
	Fuse in power cable is blown.	Replace fuse. (See Chapter 6)
(2) Nothing is displayed although radar is powered on.	Brightness or contrast are improperly adjustment.	Use BRIL key to adjust. (See Section 5.3.)
	LCD is faulty.	Contact your dealer.
(3) Screen is dark.	Brightness is improperly adjusted.	Use BRIL key to adjust. (See Section 5.3.)
	Backlight is faulty.	Contact your dealer.
(4) Video does not appear although characters are displayed.	Interconnecting cable is out of place.	Connect interconnecting cable correctly.
(5) Echo image on screen differs from actual image.	Ship's heading is incorrectly set.	Set ship's heading correctly. (See Section 5.5.4.5.4)
	Timing adjustment is incorrectly set.	Set timing adjustment correctly. (See Section 5.5.4.5.4)
(6) Echo images are blurred.	GAIN, STC, or FTC is improperly set.	Adjust. (See Section 5.3.6 to 5.3.8.)
	Magnetron has degraded.	Contact your dealer.
(7) Too much noise.	Radar is not tuned correctly	Adjust TUNE. (See Section 5.5.3.4)
	Radar is not grounded to earth.	Connect grounding wire. (See Section 3.4 to 3.6.)
(8) Not responded when key is pressed.	Panel keys are not contacting.	Contact your dealer.
	Power supply circuit is faulty.	Contact your dealer.