

## **CHAPTER 7. TROUBLESHOOTING**

The first step to take when your radar is not operating properly is to **reboot the software**. Press and hold the POWER key for three seconds to turn the unit off. Wait for 15 seconds, then power on again. If this does not correct the difficulty, then try a master reset. With the unit turned off, press and hold the FTC and RANGE UP buttons, then press POWER. When the screen lights up, release two buttons. If the problem persists at this point, continue with the troubleshooting steps.



### **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 if power switch is OFF, this radar is still supplied with power inside.**

## **7.1 Fault Diagnosis by Self-check**

This radar has a self-check to diagnose equipment faults. If the unit is operable so that you can access the MENU function, select SETUP>SYSTEM CHECK and press "ENT". Refer to section 5.5.4.5 - Fault Diagnosis by Self Check (SYSTEM CHECK).

## **7.2 Troubleshooting System Components**

**Tab. 7-1 Troubleshooting**

<b>Symptom</b>	<b>Cause</b>	<b>Corrective action</b>
(1) Radar cannot be powered on.	The unit is not receiving power	Use a voltmeter to check for power where the cable is connected to your boat's power source.
	Power supply voltage is off specified value.	Correct voltage to within specified power range. (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 is improperly adjusted.	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) Radar images do not appear although screen display is present.	Scanner interconnecting cable connector is not seated properly	Go to system check menu to determine missing signals. Make sure display set to radar mode (not monitor mode)
	Cable connectors inside radome are not seated properly	Unplug and reattach cable connectors inside scanner
(5) Echo image on screen differs from actual image.	Boat heading is incorrectly set.	Set boat heading correctly. (See Section 5.5.4.6.5)
	Timing adjustment is incorrectly set.	Set timing adjustment correctly. (See Section 5.5.4.6.5)
(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 properly grounded.	Connect grounding wire to boat's bonding or grounding system. (See Section 3.4 to 3.6.)
(8) No response when a key is pressed.	Panel key is not contacting.	Use SYSTEM CHECK to confirm. (See Section 5.5.4.5) Contact your dealer.
	Power supply circuit is faulty.	Contact your dealer.
(9) No NMEA data present	Incorrect data being transmitted by talker device.	With radar powered off, press and hold MOB and RANGE UP keys, then press POWER. When screen lights up, release two buttons. Unit will display actual NMEA data being transmitted. Correct talker as necessary.