

7. 3 Trouble Shootings

7.3.1 Trouble Shootings

WARNING



Do not attempt to inspect or repair the inside of this equipment with the exception of qualified service personnel, as doing so may cause fire, electric shock or malfunction. If any malfunctions are detected, contact our service center or agents.

For reference, this section presents a troubleshooting guideline for finding defective sections.

Symptom of Error	Possible Cause or Cause of Fault	Countermeasures
Power is not supplied when the power switch is pressed.	Power is not distributed from the inboard distribution panel.	Supply power from the distribution panel.
	Power is not supplied from the power supply unit or NCR-333.	Check that the wiring of the power unit is correct. Check that the output voltage of the power unit or NCR-333 is correct.
	Power that the power unit supplies is out of range.	Replace the power unit.
	The fuses in the Power Supply Unit (Option) are blown out.	Check that the wiring is correct and replace the fuses.
	The power supply cable is broken.	Replace the power supply cable.
	The controller switch is broken.	Replace the CMD-953 circuit board.
Some dots are missing on the LCD.	The LCD malfunctions.	Replace the LCD.
	The control unit malfunctions.	Replace the CMJ-501N circuit board.
No alarming sound is generated.	The buzzer malfunctions.	Replace the CMD-953 circuit board.
	The control unit malfunctions.	Replace the CMJ-501N circuit board.
The illumination does not light.	The control unit malfunctions.	Replace the CMJ-501N circuit board.
	The LCD malfunctions.	Replace the LCD.
No NAVTEX message is received.	The polarity or antenna cable is incorrect.	Check if the polarity is correct and connect it.
	Neither the receiving station nor the message type is selected correctly.	Refer to "6.3.1" or "6.3.2".
	The NAVTEX antenna (NAW-333) is damaged.	Replace the NAW-333.
	The following alarm number appears: 002, 003, or 004. Internal receiver 1, 2 or 3 is broken.	Replace the CMN-2333.
Sensor data (external GPS, gyro, and rate-of-turn) cannot be loaded.	The polarity of the serial cable is incorrect.	Check if the polarity is correct and connect it.
	The interface between the sensor and NCR-333 is incorrect.	Check if the interface is correct before its connection.
	The sentence that the sensor generates is not supported by the NCR-333.	Check the output command and the version.
	The serial format (baud rate, etc.) does not meet the setting of the controller.	Check the serial format of the sensor.
	The sensor (GPS, gyro, rate-of-turn indicator) malfunctions.	Replace the sensor.

Symptom of Error	Possible Cause or Cause of Fault	Countermeasures
Sensor data (external GPS, gyro, and rate-of-turn) cannot be loaded.	The DPU (CMJ-501N) malfunctions.	Replace the CMJ-501N circuit board.
The external printer does not print	The external printer is not ON.	Turn on the external printer.
	The printer power is not turned on.	Check the printer power cable.
	Printer property (printer settings) is incorrect.	Refer to "6.3.4.5".

7.3.2 Maintenance Units

Maintenance units for repair are followings.

No.	Unit Name	Model	Note
1	RX UNIT	CMN-2333	
2	DPU	CMJ-501N	
3	KEYBOARD UNIT	CMD-953	
4	NAVTEX ANTENNA	NAW-333-1	ANTENNA for NCR-333
5	POWER SUPPLY UNIT	NBG-319	DC: +12/24Vdc
6	POWER SUPPLY UNIT	NBG-320	AC: 110/220Vac, DC: +12/24Vdc
7	Whip Antenna	5ABBE00001	0.6 m

Fuses

No.	Unit Name	Model	Note
1	5A Fuse	ULTSC 5A N1	For NBG-319
2	2A Fuse	MQ4 250V 2A	For NBG-320
3	4A Fuse	MQ2 125V 4A	For NBG-320

7.3.3 Spear parts for periodic maintenance

Spear parts for periodic maintenance are followings.

No.	Unit Name	Code	Decline period	Note
1	LCD Unit	CCN-392	40,000 hours	5 years in continuous operation
2	Printer (Option)	DPU-414	Approx. 500,000 lines	When the thermal paper of 25m roll length is used, about 90 thermal papers can be used.