FURURIO Installation manual

RADIO CONSOLE

MODEL RC-1500-1T

This manual covers the general description of the Radio Console. Refer to the separate manuals for detailed information on individual units mounted in the console.



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•Your Local Agent/Dealer

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(TENI) RC-1500-1T



A SAFETY INSTRUCTIONS



Do not work inside the equipment unless totally familiar with electrical circuits.

Hazardous voltage which will cause death or serious injury exists at the following locations:

- Transceiver unit
- Antenna and antenna coupler (both at TX)

HAZARDOUS VOLTAGE is present at these points.

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🖄 WARNING



Turn off the power at the mains switchboard before beginning at installation. Post a sign near the switch to indicate it should not be turned on while the equipment is being installed.

Fire, electrical shock or serious injury can result if the power is left on or is applied while the equipment is being installed.

Use only the supplied cables.

Use of other cables can result in fire or serious equipment damage.

Use the correct fuse.

Use of wrong fuse can cause fire.

Ground the equipment to prevent electrical shock and mutual interference.

When using a copper plate for ground be careful of its edges.

Edges can cut fingers.

If the distress alert is accidentally transmitted, transmit appropriate message to nearest coast station to cancel the distress alert.

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1. Rack Console chassis (RC-1500-1T)

General

The RC-1500 series Radio Console comes in five models: RC-1500-1T-150/250, RC-1500-1T-400/800, RC-1500-1T-2P, and RC-1500-1T-TOKU.

The type and number of components incorporated differs from model to model, however each model contains an Inmarsat-C mobile earth station, NBDP terminal, DSC terminal, DSC watch receiver, and SSB radiotelephone.

Below are the distinguishing characteristics of each model.

RC-1500-1T-150/250: Incorporates the FS-1562-15/1562-25 SSB radiotelephone.

RC-1500-1T-400/800: Incorporates the FS-5000/8000 SSB radiotelephone.

RC-1500-1T-2P: Russian model.

RC-1500-2T: Incorporates the FM-8500 VHF radiotelephone.

RC-1500-1T-TOKU: Special order model.

Mounting considerations (tabletop mount)

When selecting a mounting location;

- Make sure the location is strong enough to support the unit (about 100 kg) under the conditions of continued vibration and shock normally encountered on the vessel. Where necessary, reinforce the mounting location by lining block or doubling plate.
- Locate the unit where it is easily accessible and does not interfere with personnel or operation of other equipment; for example, ship's wheel.
- Select a location where temperature and humidity are moderate and stable.

Mounting

The mounting dimensions of the RC-1500-1T are as shown in the figure below. (Refer to the outline drawing attached to the end of this manual for further details.)



Before mounting the unit, determine location of cable gland. The interconnection cable should be run though either the rear or bottom side of the rack console chassis. See the outline drawing attached for further details.

Procedure

- 1. Place the rack console chassis on the tabletop.
- 2. Mount three hangers for the DSC-6, AA-50 and FS-1562 as shown above.
- 3. Set the DSC-6, AA-50 and FS-1562 (only 150W type or 250W type) to the hangers with knobs. Set the FM-8500 to the hanger with knobs (only RC-1500-2T).
- 4. Mount the two printers PP-510 and printer selector to the top of the console chassis.
- 5. Place the NBDP and FS-5000 on the tabletop (only 400W type).
- 6. Place the Inmarsat C outside of rack console.

2. AC/DC Power Supply and Battery Charger

Mounting considerations

The unit can be mounted almost anywhere provided the location satisfies the following requirements.

- Vibration-free location
- Well-ventilated area
- Free of water splash
- Leave enough space around the sides of the unit to permit maintenance and checking.
- The mounting location must be able to support the weight of the unit (PR-850A: 35 kg, PR-300: 14.5 kg, BC-6158/6200: 28 kg, S-5300A/8300A: 85/110 kg) under the condition of continued vibration normally encountered aboard the vessel.

Mounting

Refer to the outline drawing attached to the end of this manual for further details.



• PR-850A

• BC-6158/6200



Fasten the S-8300A to the mounting location by fixing four fixing screws (ϕ 15) at the bottom and two fixing screws (ϕ 15) at the top.

The interconnection cable between the S-8300A and the rack console chassis should be run through either the bottom or rear side of the S-8300A as shown above.

3. Connection



The figure belows shows view of rack console chassis. Remove the cover access terminal boards to make connections.





Connect cables with connectors <u>in the rack console chassis</u> among the equipment.





Distribution PCB



4. Adjustment at Installation

1. SSB Radiotelephone

For FS-1562

Register permitted frequency and change system setting if necessary, referring to the Service Manual SME-5572.

For FS-5000

Register permitted frequency and change system setting if necessary, referring to the Service Manual SME-5519.

2. DP-6

To change the system setting and conduct self-test, refer to the Operator's Manual OME-5610.

3. FELCOM 12

To carry out log-in and set the system setting, refer to Installation Manual IME-5613 and Operator's Manual OME-5613.

4. DSC-6

To set the system setting and conduct self-test, refer to the Operator's Manual and Installation Manual.

5. PP-510

Set a recording paper and a cartridge and carry out self-test, referring to Operator's Manual OME-5080.

6. DMC-5 (option)

To set the system setting, refer to Operator's Manual OME-5544.

To check the printer selector, transmit data from the DSC-6 and the NBDP and confirm that it is printed correctly.



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