

# Safety Symbols

To prevent the risk of personal injury or damage to the equipment, the following safety symbols are used to indicate safety-related information. Insure that you clearly understand the meanings of the symbols BEFORE using the equipment.

## Symbols Used in Manual



### **DANGER**

This indicates a very dangerous procedure that could result in serious injury or death if not performed properly.



### **WARNING**

This indicates a hazardous procedure that could result in serious injury or death if not performed properly.



### **CAUTION**

This indicates a hazardous procedure or danger that could result in light-to-severe injury, or that might damage the equipment, if proper precautions are not taken.

## Safety Symbols Used on Equipment

The following safety symbols are used inside or on the equipment near operation locations to provide information about safety items and operation precautions. Insure that you clearly understand the meanings of the symbols and take the necessary precautions BEFORE using the equipment.



This indicates high voltages with a risk of serious electric shock if the part is touched. NEVER touch the part with bare hands, etc.



The symbol prohibits the operation shown inside the symbol. (The example in the left prohibits disassembly.)



The symbol indicates that the operation inside the symbol is potentially hazardous. (The example on the left indicates that the plug should be held when disconnecting it from the AC outlet.)





This indicates the ground (earth) terminal. If the equipment cannot be grounded via the power cord, connect this terminal to ground. There is a risk of serious electric shock if the equipment is not grounded.

RA40C/RA41C/RA42C  
Marine Radar  
Instruction Manual

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## For Safety

|   |                |   |  |
|---|----------------|---|--|
|    | <b>WARNING</b> | / | • •  |
| <ul style="list-style-type: none"> <li>• DO NOT OPEN THE COVER EXCEPT SERVICE PERSONNEL. YOU MAY GET AN ELECTRIC SHOCK.</li> <li>• SWITCH OFF SHIP'S MAIN AND PULL OFF MOTOR FUSE BEFORE MAINTENANCE.</li> <li>• ROTATING ANTENNA MAY HIT YOU.</li> <li>• KEEP OFF DURING TRANSMISSION.</li> <li>• RADIATION LEVEL: 100W/m<sup>2</sup> DISTANCE : 0.8m</li> <li>• RADIATION LEVEL: 10W/m<sup>2</sup> DISTANCE : 8m</li> <li>• DO NOT DROP COVER.</li> <li>• IT MAY HIT SOMEBODY.</li> </ul> |                |   | <p>• .....</p> <p>• .....</p> <p>• .....</p> <p>• .....</p> <p>• .....</p> <p>• .....</p> <p>• : 100W/m<sup>2</sup> • : 0.8m</p> <p>• : 10W/m<sup>2</sup> • : 8m</p> <p>• .....</p> <p>• .....</p> |
|    | <b>CAUTION</b> | / | • •  |
| <ul style="list-style-type: none"> <li>• DO NOT PAINT THE RADOME.</li> <li>• PERFORMANCE WILL DOWN.</li> </ul>  |                |   | <p>• .....</p> <p>• .....</p>  |

WARNING and CAUTION for Scanner Unit and Antenna ;

- ① There is a risk of receiving electric shock if these parts are touched by accident. Only qualified personnel should remove covers on these parts.
  
- ② To avoid accidental antenna rotation, turn off ship's main and pull off out the motor fuse during repair inspect, or maintenance.  
When repairing or inspecting the scanner unit wear a safety harness and provide a secure platform so that there is no danger of falling even when the vessel lists or when there is an unexpected incident such as an earth quake.
  
- ③ Do not approach the antenna while it is transmitting.  
In addition, at inspection never look into the wave guide during transmission.
  
- ④ When remove the scanner cover etc., do not drop it. It may endanger people below.
  
- ⑤ Do not paint the RADOME. Antenna performance will be down.

|   |  |   |   |
|---|--|---|---|
|  | <b>WARNING</b>   | /   | • •   |
| <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>         | <ul style="list-style-type: none"> <li>• SEE INSTRUCTION MANUALS BEFORE CONNECTING POWER. SAFETY INFORMATION IS WRITTEN IN.</li> <li>• EARTH CONNECTION ESSENTIAL BEFORE CONNECTING POWER. YOU MAY GET AN ELECTRIC SHOCK.</li> <li>• DO NOT OPEN THE COVER EXCEPT SERVICE PERSONNEL. HIGH VOLTAGE IS INSIDE. YOU MAY GET AN ELECTRIC SHOCK.</li> </ul> | <ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul> | <ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul> |

WARNING for Display Unit ;

- ① See instruction manuals before connecting power. Safety information is written in.
- ② Earth connection essential before connecting supply.  
There is a risk of serious electric shock if the equipment is not grounded.
- ③ There is a risk of receiving electric shock if these parts are touched by accident.  
Only qualified personnel should remove covers on these parts.

## Installation

Radio laws dictate that this radar may only be installed by properly licensed personnel.

## Licensing

You must obtain a license as prescribed by the Radio Law to operate this unit.

## To Customers

- \* To use this equipment effectively, the operation and maintenance procedure in this manual must be followed properly. Note that this equipment is only a navigational instrument having no warrant for navigation safety. Non-execution of fundamental navigation requirements such as the ship location check or lookout is not allowed.
- \* If some abnormality occurs in this equipment, immediately turn off the equipment POWER switch and the radar main switch in the power distribution board and notify our maintenance section or dealer.
- \* This instrument uses oscillator and LCD backlight. They are easy to be broken. Do not subject the instrument to excessive force or drop it.
- \* The mercury (Hg) is used in LCD backlight. When you discard your radar, it is due to laws or regulations of your nations.