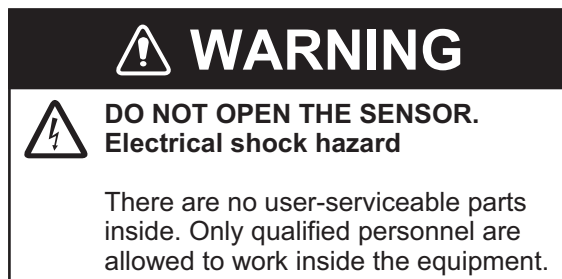


3. MAINTENANCE, TROUBLE-SHOOTING



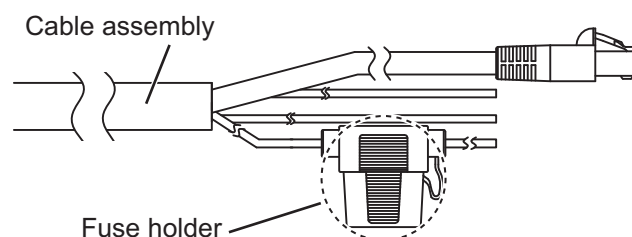
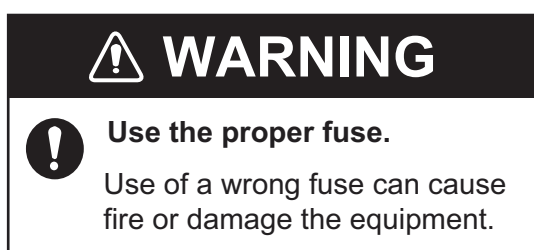
3.1 Maintenance

Regular maintenance is important for good performance. Check the points mentioned below every 3 to 6 months to keep the radar sensor in good working order. Observe the safety instructions at the front of this manual when working on the mast.

Check point	Action
Fixing bolts <ul style="list-style-type: none">• Corrosion• If they are tightened	<ul style="list-style-type: none">• Replace corroded bolts.• Tighten loosened bolts.• Coat new bolts with marine sealant.
Radome <ul style="list-style-type: none">• Cracks• Foreign material	<p>If a crack is found, repair it temporarily with a small amount of sealing compound or adhesive. Bring the unit to your dealer for permanent repairs.</p> <p>Foreign material on the radome can cause a considerable drop in sensitivity. Remove foreign material with a freshwater-moistened cloth. Do not use commercial cleaners to clean the sensor; they can remove paint and markings or deform the plastic.</p>

3.2 Replacement of Fuse

The 5A fuse (Type: FRU-60V-FU-5A, Code No.: 000-194-913-10) in the fuse holder on the cable assembly protects the radar sensor from over-current and equipment fault. If you cannot turn on the power, check the fuse to see if it has blown. If the fuse has blown, find the reason before you replace the fuse. If the fuse blows again after the replacement, contact your dealer for advice.



How to replace the fuse

Open the fuse holder cover and replace the fuse. Then close the cover.

3.3 Troubleshooting

The table below provides simple troubleshooting procedures to restore normal operation. If you cannot restore normal operation, contact your dealer for advice.

Trouble	Remedy
The radar type does not appear on the multi function display device.	<ul style="list-style-type: none"> • Check if the cable assembly is connected to the power source and the power source is on. • Check the cable assembly for damage. • Check if the fuse has blown. • Check the voltage of ship's main (12/24 VDC). • Check the software version of the multi function display device.
The radar type appears on the multi function display device, but the radar display does not appear or transmission does not start.	Check the software version of multi function display device.
The radar appears on the multi function display device, but disappears when the transmission started or continue rebooting.	Check the power voltage is sufficient.
Transmission starts, but echoes do not appear or weak echoes occur.	Check the settings of GAIN/SEA/RAIN.
Too much interference.	<ul style="list-style-type: none"> • Turn the interference rejector on. • Turn the transmission on/off. • Change the transmission channel.
Marks and characters appear on the display, but echoes do not appear.	Check that the Cable Assembly is fastened.
You changed the range, but the radar picture does not change.	<ul style="list-style-type: none"> • Try to zoom the radar display in or out. • Turn the power off and on.
Signal strength is too low.	Have a technician check the radar.

3.4 Life of Parts

Antenna Motor

When an antenna motor reaches the end of its life, the antenna's rotation may stop or abnormal noise sounds from the antenna unit. If such symptoms occur, contact your local dealer about replacement of the antenna motor.

Name	Type	Code No.	Approx. Life
DC Geared Motor	RM-9794	001-031-140	2, 000 hours