

## **CHAPTER 6. MAINTENANCE AND INSPECTION**

Most of maintenance of this radar should be referred to qualified personnel. If radar has any problem, contact your dealer and tell us that problem.



### **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, power must be off. Even power switch is OFF, this radar is still supplied power inside.**

The following table shows the maintenance by user. Please check periodically.

**Tab. 6-1 Maintenance**

| Inspection Interval | Inspection Item                           | Method of Inspection and Maintenance                                                                                                                                                                                 |
|---------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-6 months          | Rust and looseness in scanner unit        | Check whether the scanner's fitting bolts are corroded or less.                                                                                                                                                      |
|                     | Display screen of LCD display             | Clean filter and LCD screen surfaces with a soft and wet cloth.                                                                                                                                                      |
| 6-12 months         | Grease* application to antenna drive gear | Apply an even coating of grease* to the entire surface of the antenna drive gear with a spatula or brush.                                                                                                            |
|                     | Check for contact of connectors           | Check whether connectors are contacted properly. If any connector is improperly contacted or stained, correct it by using a contact restoring chemical agent or by polishing or replace with a new one if necessary. |
|                     | Antenna motor brush(RA42C)                | Check the length of brushes. If the length is under 6mm, change them to new one.                                                                                                                                     |

\*: Use grease for plastics for RA40C/41C. If you use other type of grease(not for plastics), it may break antenna

### **Concerning Consumable**

The radar uses consumable as listed below that require periodic replacement.

#### **(1) Magnetron**

This part is mounted in the scanner unit. If distant echo images have become less visible, the magnetron probably may have degraded. In such a case, replace it. Consult your distributor for replacement of this part.

Period of the replacement : 3000hour(typ.) (500hour guarantee)

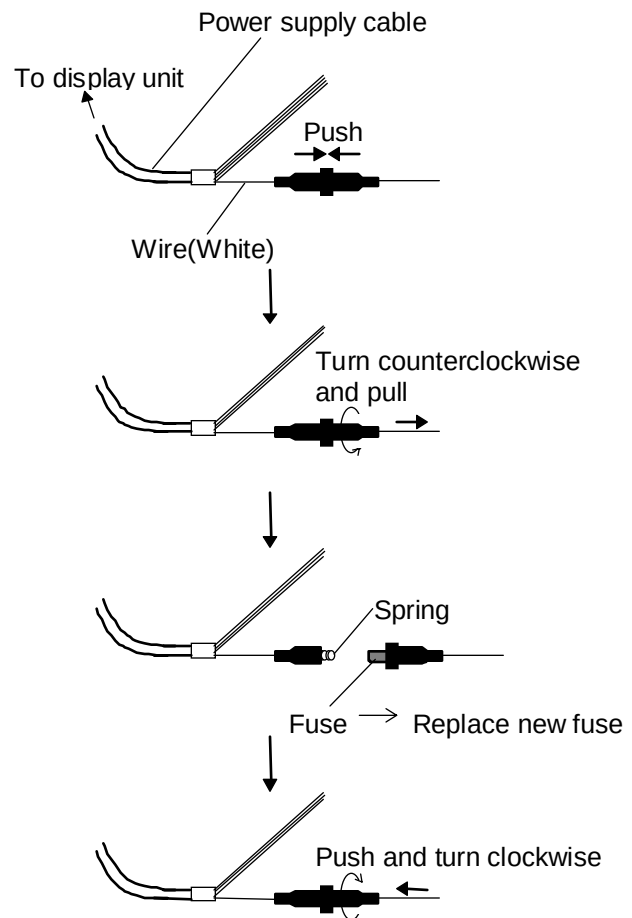
#### **(2) LCD back-light**

This part is mounted in the display unit. If the display screen is extremely dark and its illumination cannot be corrected by adjusting brightness, the LCD back-light may be faulty or may have burnt out. In such a case, replace it. Consult your distributor for replacement of this part.

Period of the replacement : 15000hour(typ.) (1000hour at 0•)

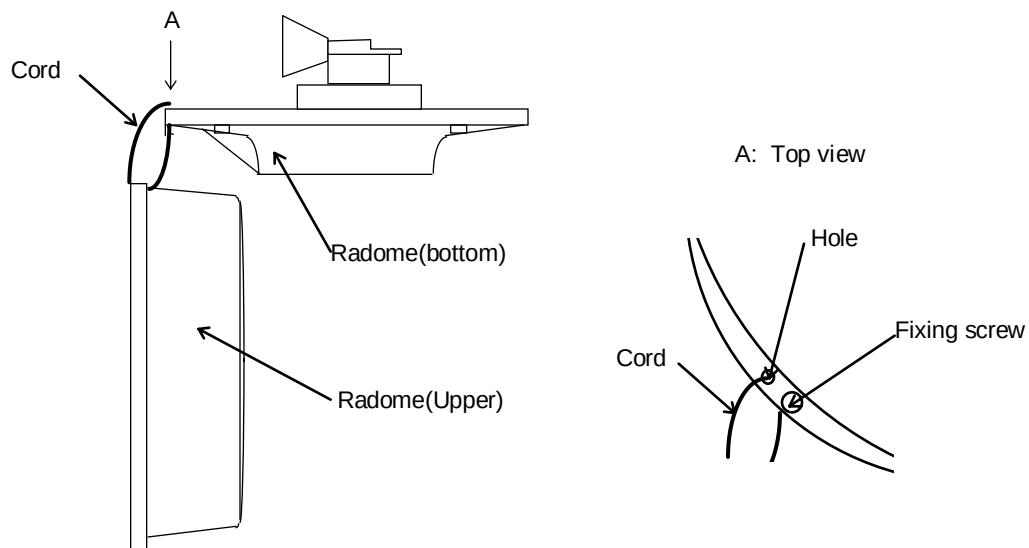
### (3) Fuse

The fuse is built in the power supply cable. If the fuse appears to be blown, check the fuse. If blown, replace it following the procedure shown in Fig.6-2.



**Fig. 6-2 Method for replacing fuse**

Note: Before maintenance of scanner, you can hang a radome(upper) using cord through hole as follows.



**Fig. 6-3 Method for replacing fuse**