

FURUNO

DRS4D-NXT RETROFIT PROCEDURES MODEL OP03-239

Required Tools and Parts for Retrofit

Retrofit kit (OP03-239, Parts code 001-426-250) includes below items.

Name	Type	Code No.	Qty
Gland bush	03-174-3205-1	100-340-911	1
Clamp	E0806A	000-166-489	1

Below tools and parts are required.

- Phillips head and slotted-head screwdrivers
- Rubber gasket (2 pcs., provided)
- A fuse with the following specifications. Supply locally.
Current rating: 5A, Voltage rating: 32V, Cable diameter 12AWG (2.053 mm)
- Refer to the below table about the limitation of cable length according to the power supply.

Power Supply	Limitation on Cable Length
10.8 VDC	Power supply not compatible
12 VDC	Less than 10 m
24 VDC	No limitation

Retrofit Procedures

Note 1: Do not connect the DRS4D-NXT to PSU-012/PSU-017 after completing the retrofit.
Connect the DRS4D-NXT to a 12-24 VDC power supply.

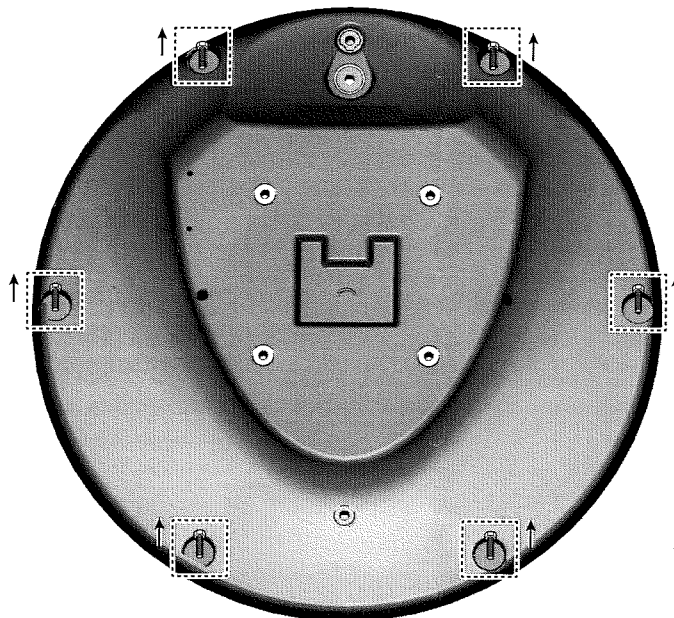
Note 2: Retrofit possible with the DRS2D, DRS4D, DRS6A.

Note 3: Below procedures are for using a 5A fuse.

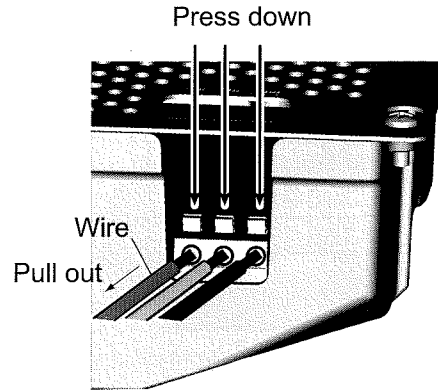
Note 4: Make sure that the multi function display device is turned off and the two-way cable MOD-ASW0001 is unplugged from the multi function display device and the power supply unit before starting below procedures.

Procedures for the radome

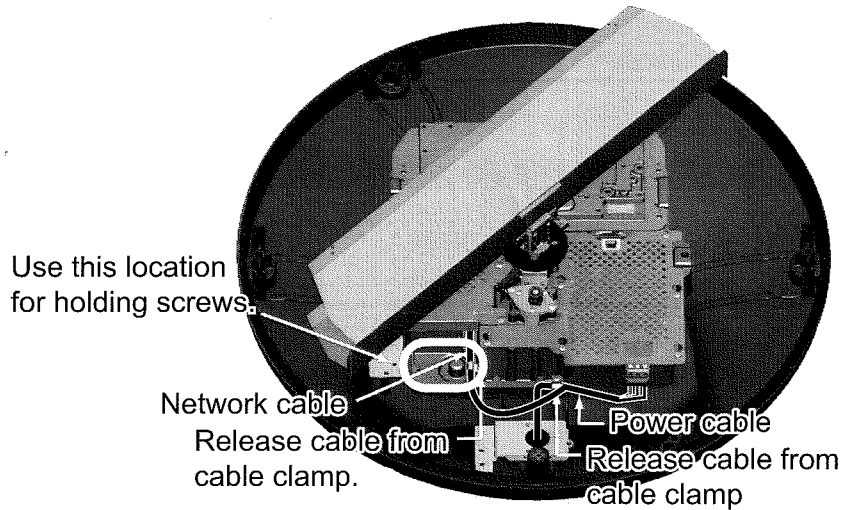
1. Put the radome upside down.
2. Unfasten six retaining screws at the bottom of radome to open the radome.



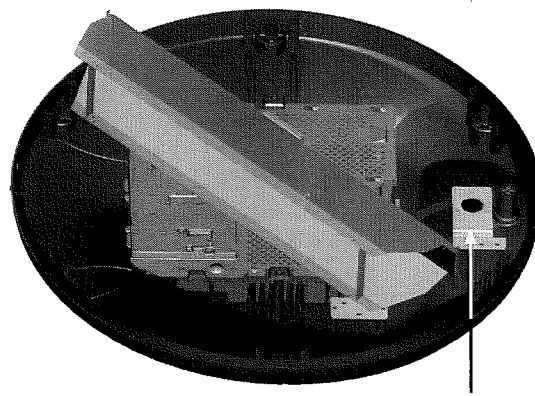
3. Insert a small slotted-head screwdriver into each of the terminals on the WAGO connector for the power cable, then pull out each wire.



4. Unfasten the screws from the cable clamp for the power cable and network cable to release the cables.
5. Remove the cable clamp for the power cable and the network cable. The cable clamp for the power cable may be discarded; keep the cable clamp for the network cable for later use.



6. Unplug the network cable from the port. Note that the network cable port is upside down.
7. Unfasten the three screws at the bottom of the mounting base to remove the fixing plate for the gasket. Keep the screws and fixing plate for later use.

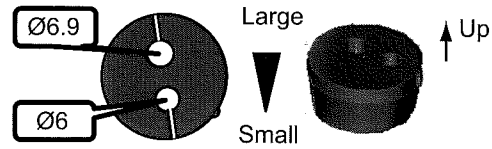


Fixing plate for gasket

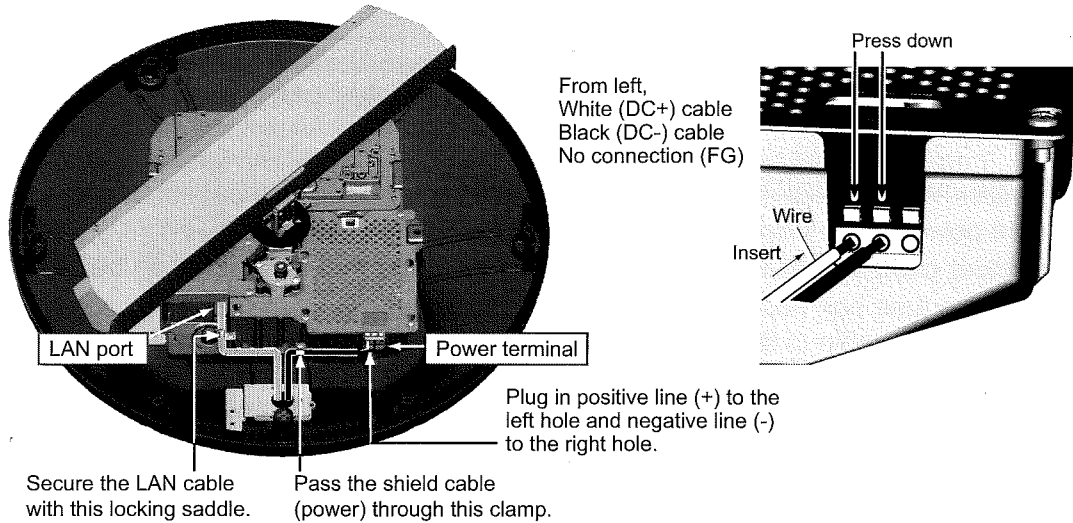
8. Remove the pre-attached cable and pre-attached gland bush.
9. Insert the existing power cable and network cable into the radome from the bottom of radome.
10. Attach the provided clamp to the existing power cable. Attach the cable clamp detached in step 5 to the network cable.

11. Push these two cables into the slits in the provided gland bush. The sizes of holes on a gland bush differ according to the diameter of cables.

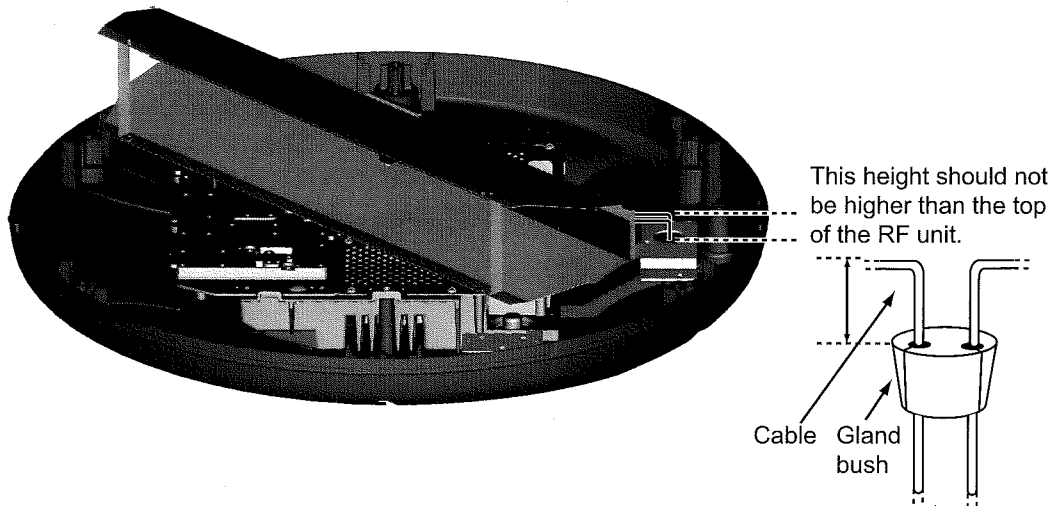
Note: The ends of the gland bush are different. Larger end should be up.



12. Connect the power cable to the power terminal.
13. Plug the network connector to the port.

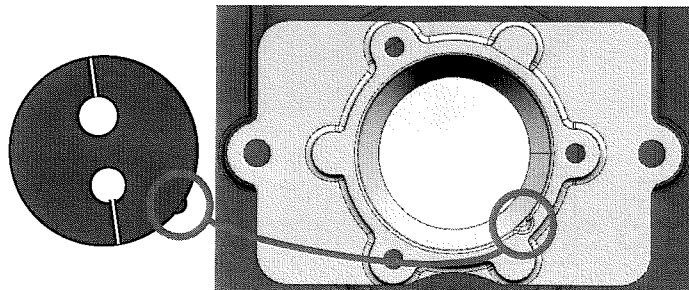


14. Push the cables into the slits on the gland bush. The length of the cables above the gland bush should not be higher than the top of the RF unit, as shown below.

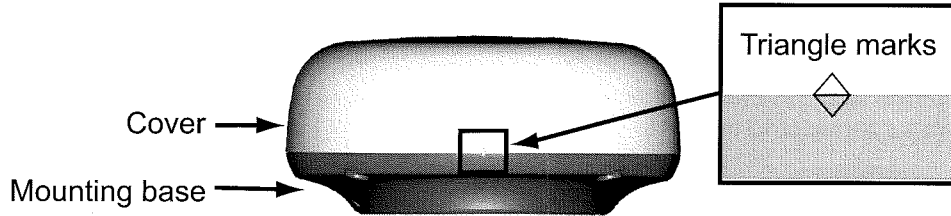


Note 1: If the two-way cable touches the platform near the mounting base, wind vinyl tape around the cable at the point where it is bent.

Note 2: Align the nipple on the gland bush with the indentation on the radome chassis. See the figure below.



15. Fasten the power cable clamp and the network cable clamp.
16. Tighten down the clamps to the location according to the illustration on step 13.
17. Confirm that the rubber gasket on the cover is properly positioned.
Set the cover to the mounting base so that the triangle marks on each are aligned.
Fasten the cover fixing screws.



There are two ways to attach the fuse box to the existing cable MOD-ASW0001 as shown below.

Procedures for Attaching the Fuse Box to Existing Cables 1

1. Detach the power cable from PSU-012 or PSU-017.
2. Cut the power cable of two-way cable MOD-ASW0001 so that the cable can be connected to a fuse box (local supply) and the power supply.
3. Connect the white cable to the fuse box and solder the both sides of the power cable to fuse box.
4. Connect the white cable to the positive terminal of the power supply.
5. Connect the black cable to the negative terminal of the power supply.
6. Connect the network cable to the multi function display device.

Procedures for Attaching the Fuse Box to Existing Cables 2

1. Detach the power cable from PSU-012 or PSU-017.
2. Cut the power cable of existing two-way cable MOD-ASW0001 so that the cable can be connected to the cable assembly (CP03-36400, CP03-36410, CP03-36420 or CP03-36430) and the power supply.
3. Cut the power cable of the cable assembly (CP03-36400, CP03-36410, CP03-36420 or CP03-36430) so that the fuse box of the existing cable assembly can be used.
4. Connect the white cable of MOD-ASW0001 to the power cable of the selectable power/network cable to a fuse box and solder the both ends of the power cable to it.
5. Connect the white cable to the positive terminal of the power supply.
6. Connect the black cable to the negative terminal of the power supply.
7. Connect the network cable to the multi function display device.

