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FURUNO

# INSTALLATION MANUAL

## VHF RADIOTELEPHONE

MODEL FM-8800D/8800S

FURUNO ELECTRIC CO., LTD.
NISHINOMIYA, JAPAN

PRINTED IN JAPAN

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( TATA ) FM-8800D/S

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*IME56420E00*

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# ⚠ SAFETY INSTRUCTIONS

## ⚠ WARNING



**Hazardous voltage.**
**Can shock, burn or cause serious injury.**

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



**Do not approach the antenna closer than 0.9 m (MPE by FCC) when it is transmitting.**

The antenna emits radio waves which can be harmful to the human body.

| | RF power density on antenna aperture | Distance | Description required by |
|---|---|---|---|
| FM-8800S | 100 W/m$^2$ | 0.11 m | IEC 60945 |
| | 10 W/m$^2$ | 0.33 m | IEC 60945 |
| | 2 W/m$^2$ | 0.9 m | MPE by FCC |
| FM-8800D | 100 W/m$^2$ | 0.11 m | IEC 60945 |
| | 10 W/m$^2$ | 0.33 m | IEC 60945 |
| | 2 W/m$^2$ | 0.9 m | MPE by FCC |

(MPE: Minimum Permissible Exposure)

**Turn off the power at the mains switchboard before beginning the installation. Post a warning sign near the switchboard to indicate that power should not be applied while the equipment is being installed.**

Electrical shock, serious injury or fire can result if the power is not turned off or is applied while the equipment is being installed.

## ⚠ CAUTION



**Attach securely protective earth to the ship's body.**

The protective earth (grounding) is required to the AC/DC power supply unit to prevent electrical shock.

**Confirm that the power supply voltage is compatible with the voltage rating of the equipment.**

Connection to the wrong power supply can cause fire or equipment damage. The voltage rating appears on the label at the rear of the display unit.

**Observe the compass safe distance to prevent deviation of a magnetic compass.**

| | Standard compass | Steering compass |
|---|---|---|
| FM-8800S | 1.45 m | 0.90 m |
| FM-8800D | 1.45 m | 0.95 m |
| IF-8810 | 0.85 m | 0.55 m |
| IF-8820 | 0.75 m | 0.50 m |
| HS-2003 | 1.50 m | 0.95 m |
| HS-8800 | 0.40 m | 0.30 m |
| RB-8800 (W/HS-8800) | 1.20 m | 0.80 m |
| RB-8810 (W/HS-8800) | 1.50 m | 1.00 m |
| PR-240-CE | 0.90 m | 0.60 m |

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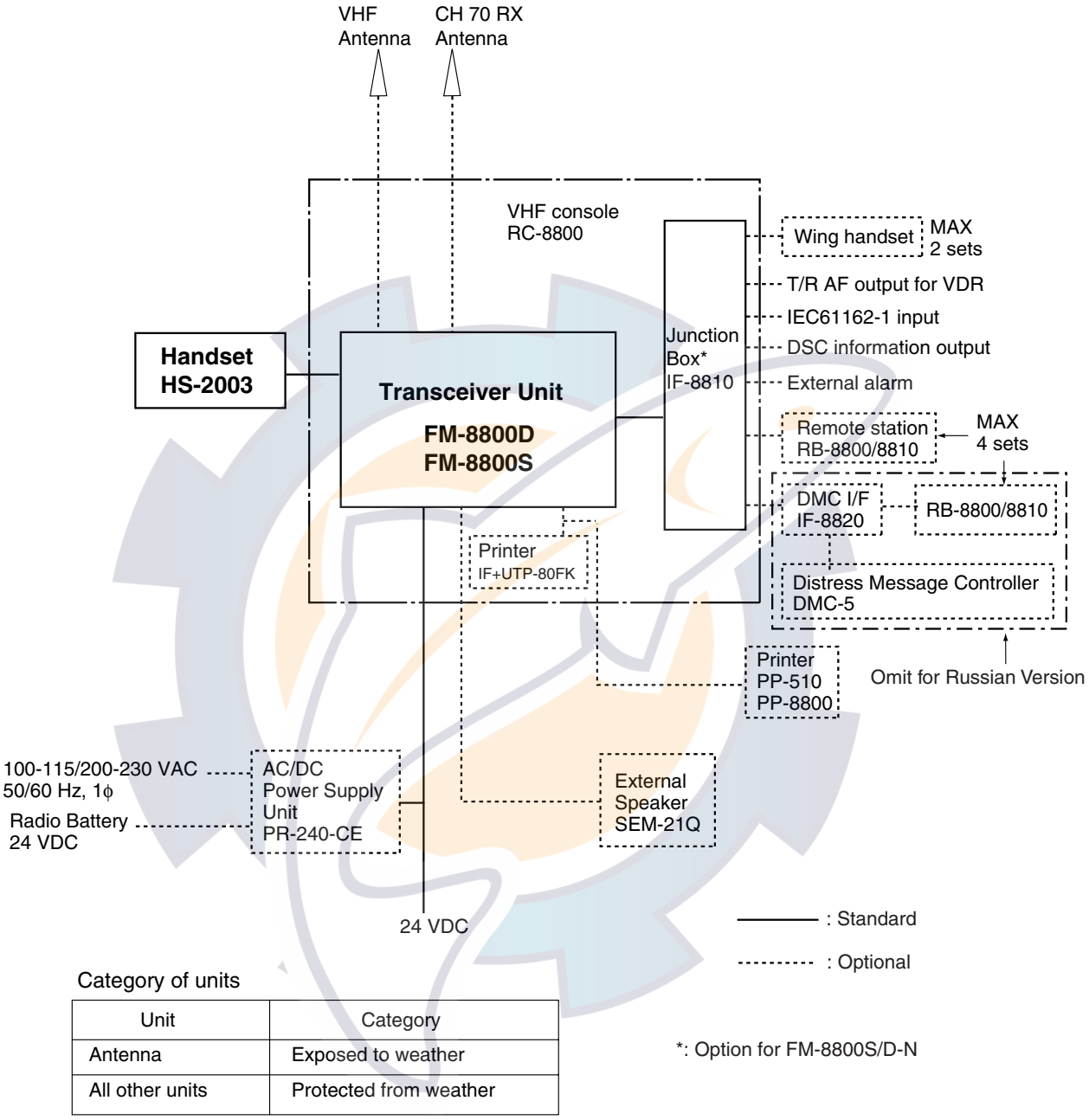
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# SYSTEM CONFIGURATION




Category of units

| Unit | Category |
|---|---|
| Antenna | Exposed to weather |
| All other units | Protected from weather |

*: Option for FM-8800S/D-N

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# EQUIPMENT LISTS

## Standard Supply

| | Name | Type | Qty | Code No. | Remarks |
|---|---|---|---|---|---|
| 1 | Transceiver Unit | FM-8800D-E-A<br>FM-8800D-E-N<br>FM-8800D-F-A<br>FM-8800D-F-N<br>FM-8800S-E-A<br>FM-8800S-E-N<br>FM-8800S-F-A<br>FM-8800S-F-N<br>FM-8800S-R-A<br>FM-8800S-R-N | 1 | — | D: Duplex<br>S: Simplex<br>E: With handset HS-2003<br>F: With microphone DM-2003-F<br>A: With IF-8810<br>N: No IF-8810<br>R: Russian version |
| 2 | Accessories* | FP05-05700 | 1 | 000-054-228 | For E-type<br>Handset HS-2003, Hanger FP05-05510, Others FP05-05511 |
| | | FP05-05710 | | 000-054-156 | For F-type<br>Microphone DM-2003-F |
| 3 | Junction Box | IF-8810 | 1 | — | For A-type |
| 4 | Installation Materials* | CP05-09900 | 1 | 000-054-227 | Power cable 05S9371, CP05-09901 |
| 5 | Spare Parts* | SP05-05501 | 1 | 005-377-820 | |

## Standard Supply for VHF Console

| | Name | Type | Qty | Code No. | Remarks |
|---|---|---|---|---|---|
| 1 | VHF Console | RC-8800-SN<br>RC-8800-DN<br>RC-8800-SA<br>RC-8800-DA | 1 | — | D: Duplex FM-8800D<br>S: Simplex DM-8800S<br>N: No printer<br>A: With printer & I/F board |
| 2 | Installation Masteries* | CP05-10201 | 1 | 005-371-850 | |
| 3 | Accessories* | FP05-05800 | 1 | 000-054-372 | Handset HS-2003 & Handset hanger FP05-05510 |
| 5 | Spare Parts* | SP05-05501 | 1 | 005-377-820 | |

*: See lists at the end of this manual.

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## Optional Equipment

| Name | Type | Code No. | Remarks |
|---|---|---|---|
| Flush Mount Kit | OP05-102 | 000-054-120 | |
| Junction Box | IF-8810 | — | W/ Screw 5x20 4 pcs. |
| DMC Interface | IF-8820 | — | No use for Russian version |
| Remote Station | RB-8800-15 (W/ 1.5 m Cable) | — | ·FP05-05701*, ·Handset HS-8800, ·Hanger W/DIST. button HG-8800 |
| | RB-8800-20 (W/ 2 m Cable) | | |
| | RB-8810-15 (W/ 1.5 m Cable) | — | ·FP05-05511*, ·Handset HS-8800, ·Hanger HG-8810 |
| | RB-8810-20 (W/ 2 m Cable) | | |
| Handset | HS-8800-15 | 000-054-230 | W/ 1.5 m Cable |
| | HS-8800-20 | 000-054-171 | W/ 2 m Cable |
| | HS-8800-W-35 | 000-054-287 | Waterproof |
| | HS-2003-15 | 000-054-223 | W/ Cable 1.5 m |
| | HS-2003-20 | 000-XXX-XXX | W/ Cable 2.0 m |
| | HS-2003-50S | 000-XXX-XXX | W/ Straight cable 5.0 m |
| | HS-6000FZ11 | 000-135-072 | |
| Handset Hanger | HG-8800 | 000-054-229 | For HS-8800 |
| | HG-8810 | 000-054-231 | For HS-8800 |
| | FP05-05510 | 005-951-790 | For HS-2003 |
| | AP-102 | 000-580-019 | For HS-6000FZ11 |
| Loudspeaker | SEM-21Q | 000-144-917 | |
| Dynamic Mic. Set | OP05-57 | 000-045-775 | Handset HS-6000FZ5, Receptacle RDB-VHF(B), Hanger AP-102 |
| Carbon Mic. Set | OP05-58 | 000-045-776 | Handset HS-6000FZ6, Receptacle RDB-VHF, Hanger AP-102 |
| Handset set | OP05-42 | 000-045-778 | Handset HS-6000FZ11, Receptacle RDB-VHF(B), Hanger AP-102 |
| Mic. Receptacle Box | RBD-VHF (B) | 000-056-094 | |
| Microphone | DM-2003-F | 005-377-760 | |
| Printer | PP-510 | — | |
| Printer Interface | IF-8500 | — | |
| AC-DC Power Supply | PR-240-CE | — | |
| Antenna Material | AP05-00800 | 000-057-721 | Whip antenna FAB-151D, Mounting plate 4-310071, Coax. Cable 5D-2V 10m, Connector M-P-5 2 PCS |
| | AP05-00810 | 000-057-722 | Whip antenna RA106, Mounting plate RA115, Coax. Cable 05S9104 5m |
| | AP05-00900 | 000-057-739 | Whip antenna 396-1, Mounting plate 4187 |
| | AP05-01000 | 000-054-123 | Whip antenna FAB-151D, Mounting plate 4-310071, Connector M-P-7 2 PCS |

*: See lists at the end of this manual

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| Name | Type | Code No. | Remarks |
|---|---|---|---|
| Antenna Material | AP05-01100 | 000-054-224 | Whip antenna 150M-W2VN, Coax. Cable 5D-2V 10m, Connector M-P-5 2 PCS |
| | AP05-01200 | 000-054-232 | Whip antenna FAB-151D, Mounting plate 4-310071, Coax. Cable 5D-2V 10m, Connector M-P-5 & M-P-7 |
| | AP05-01210 | 000-054-233 | Whip antenna FAB-151D, Mounting plate 4-310071, Coax. Cable 5D-2V 20m, Connector M-P-5 & M-P-7 |
| Signal Cable | 05S0309 *10M* | 000-106-043 | 10m |
| | 05S0309 *20M* | 000-106-044 | 20m |
| | 05S0309 *30M* | 000-106-046 | 30m |
| | 05S0309 *40M* | 000-106-047 | 40m |
| | 05S0309 *50M* | 000-106-048 | 50m |
| Twisted Cable | CO-SPEVV-SB-C 0.2x2P | 000-111-680 | 5m |
| | | 000-120-792 | 10m |
| | | 000-120-793 | 15m |
| | | 000-120-794 | 20m |
| | | 000-120-214 | 30m |
| VHF Console Kit | RC-8800-N-75BG | 000-054-125 | Without Printer |
| | RC-8800-A-75BG | 000-054-126 | With Printer |
| Printer | PP-8800 | - | W/ power cable |
| Emergency lamp | EMG-1T | 000-138-378 | For rack console, cable attached |

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# 1. MOUNTING

## Transceiver Unit

### General mounting considerations

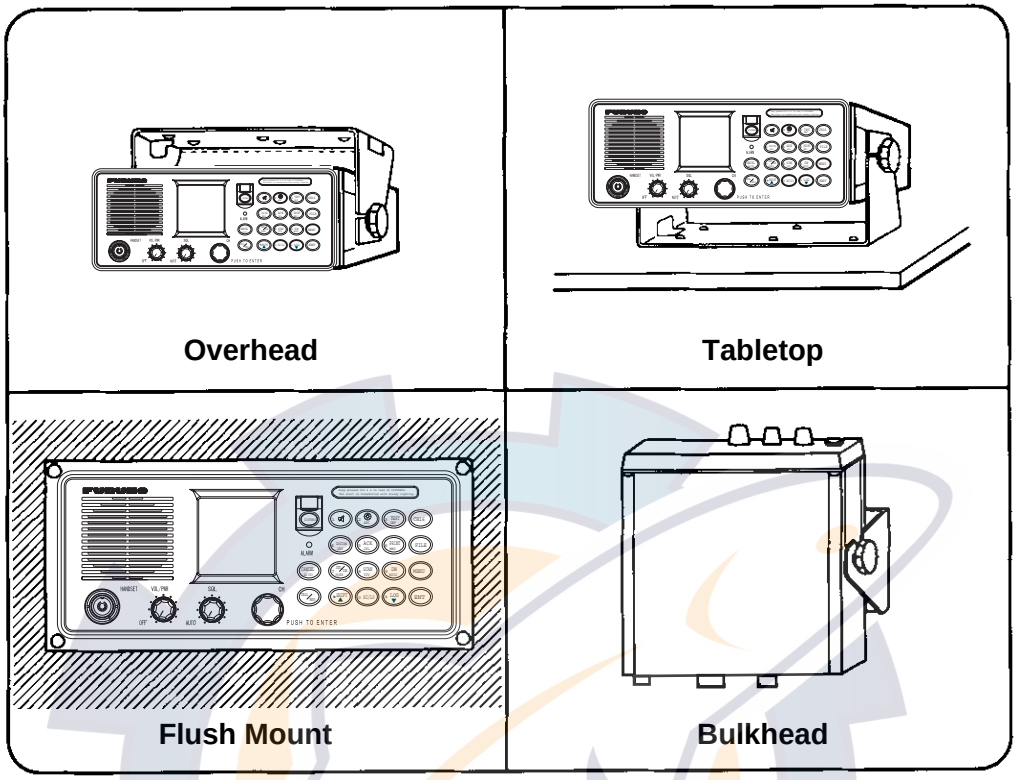
Determine the mounting location for the transceiver unit considering operator convenience, proximity to the power source and the ground location. Keep these and the following points in mind when selecting a mounting location.

- Locate the unit in a place free of water spray and water splash.
- Keep the unit out of direct sunlight because of heat that can build up inside the unit.
- Leave a little slack in cables to allow a service technician to move the radio from its usual location with the cables connected. This lets him make tuning and other adjustments on a “live” set.
- Do not install the unit where flammable gases are stored.
- Select a well-ventilated area.
- Ensure the mounting location is strong enough to support the weight of the unit (approx. 6 kg) under the condition of continued vibration normally encountered aboard the vessel. If necessary, reinforce the mounting area with a doubling plate or lining block.
- Leave sufficient space at the sides and rear of the unit for maintenance and service purposes and to provide for circulation of cooling air. See outlines drawings at the back of this manual.
- **For flush mounting,** select a location where the LCD can be easily viewed.
- The transceiver unit will affect a magnetic compass if placed too near the compass. Observe the compass safe distance to prevent deviation of a magnetic compass, referring to page “ i ”.

**Note:** Take great care not to press the DISTRESS switch during the installation. If you accidentally press the switch, immediately turn off the equipment and contact appropriate authority by telephone.

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## Overview of mounting methods



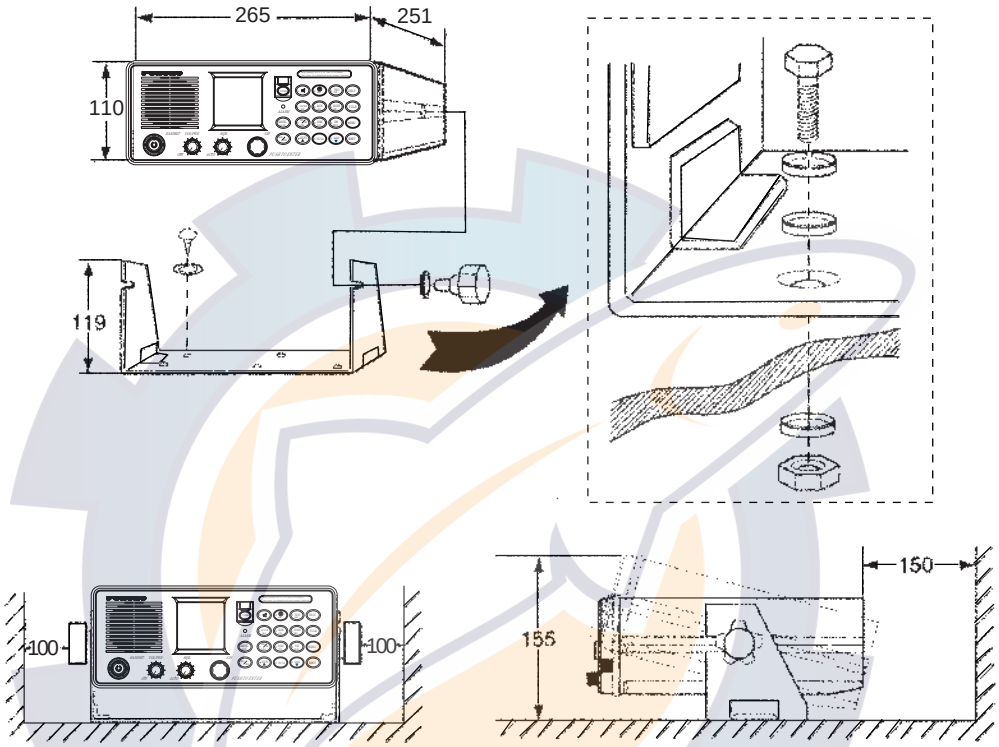

*Overview of mounting methods*

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## Mounting procedure for tabletop, overhead and bulkhead mounting

1. Using the hanger as a template, mark fixing holes in the mounting location.
2. Fix the hanger to the mounting location with self-tapping screws and washers (supplied). (For added support, use nuts, bolts and washers instead of self-tapping screws.)
3. Screw the knob bolts with washers into the transceiver unit.
4. Set the transceiver unit to the hanger and tighten knob bolts.




- All dimensions in millimeters.
- Leave sufficient space at the sides and rear of the unit to provide easy access for maintenance and service.

*Mounting dimensions for tabletop, overhead and bulkhead mounting*

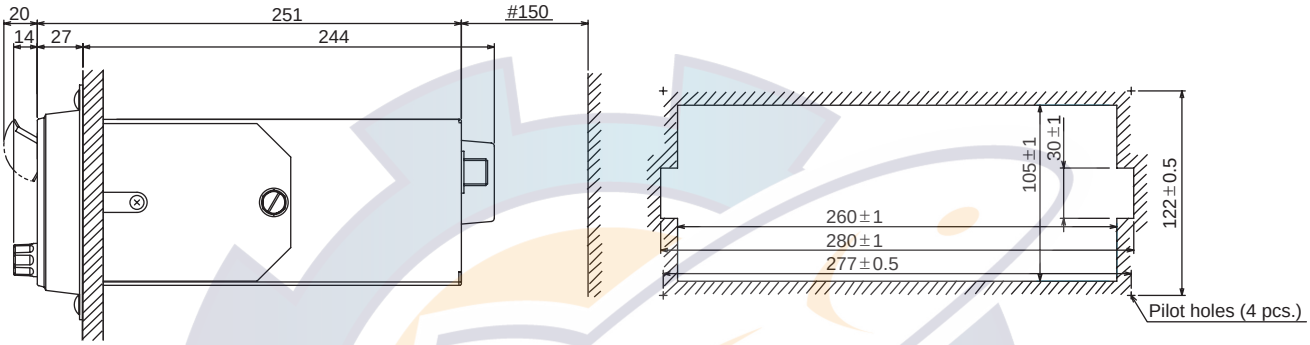
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### Mounting procedure for flush mount (option)

Requires optional flush mount kit OP05-102 (Code No. 000-054-120). Prepare a cutout in the mounting location whose dimensions are as shown in the figure below.

Flush mount kit OP05-102

| | Name | Type | Code No. | Qty |
|---|---|---|---|---|
| 1 | Mounting plate | 05-093-1211 | 100-323-160 | 1 |
| 2 | Self-tapping screw | 5x20 | 000-802-081 | 4 |
| 3 | Hex screw | M8x16 | 000-882-075 | 2 |




*Mounting dimensions for flush mount*

# VHF Antenna

## The antenna requirements

Any good quality antenna meeting the requirements shown below may be used. A high-gain antenna is preferable.

- Frequency range: 155 to 164 MHz
- Impedance: 50 ohms
- Polarization: Vertical
- Handling power: 30 W/ min
- Quality: Able to withstand marine environment

## Mounting considerations

- The antenna should be well separated from nearby antennas, masts, and other interfering objects.
- The higher the antenna is mounted above the horizon, the further the communications range.

## Mounting procedure

The basic mounting procedure for antennas supplied by FURUNO is as follows, however consult appropriate outline drawing for details.

1. Fasten the antenna bracket to the stanchion.
2. Set the antenna to the antenna bracket and tighten bolts.
3. Screw the coaxial cable plug into the antenna.

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# CH70 RX Antenna

The antenna should be well separated from nearby antennas, masts, and other interfering objects.

The mounting procedure is the same as that for the VHF antenna, however consult appropriate outline drawing for details.

# Handset Hanger

The handset hanger can be mounted at the left side of the transceiver unit. The mounting location should provide easy access to front panel controls while operating the handset. Also, the length of the standard handset cable is 50 cm, so locate the handset hanger within 50 cm of the unit. (Longer cables are available optionally.)

# Power Supply (option)

For Convention vessels, both AC and DC power must be fed to the FM-8800D/8800S, via an AC/DC power supply. When AC input fails, DC power is supplied. FURUNO can supply an AC/DC power supply unit, the PR-240-CE.

## Mounting considerations

When selecting a mounting location, keep in mind the following points.

- Select a location which provides adequate ventilation.
- The location must be clean and dry.
- The mounting location must be able to support the weight of the unit (14.5 kg) under the continued conditions of vibration normally encountered aboard the vessel. If necessary, reinforce the mounting location.
- The PR-240-CE will affect a magnetic compass if it is placed to near the compass. Observe the compass safe distance to prevent deviation of a magnetic compass, referring to page “ i ”.

## Mounting

Refer to outline drawing.

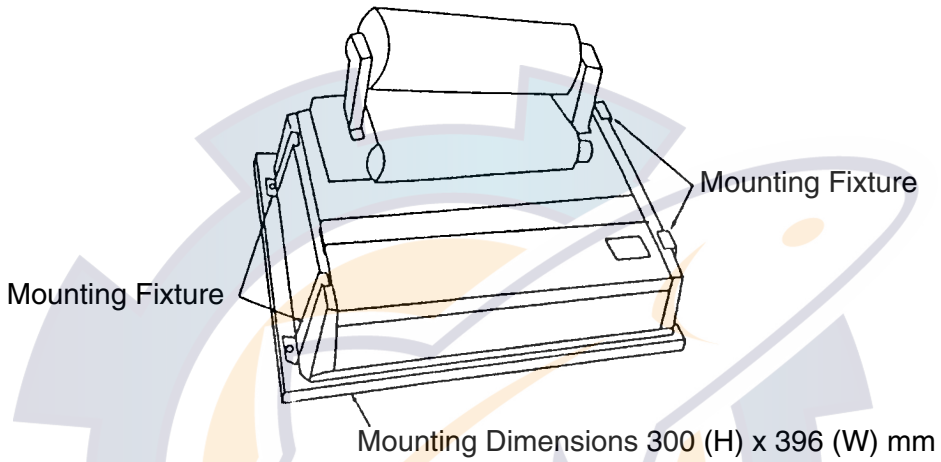
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# Printer (option)

## Printer PP-510

To mount the printer, refer to the printer outline drawing at the back of this manual.

1. Select a flat surface.
2. Fix the mounting base to the mounting location with four screws (supplied).
3. Lay the printer on the top of the mounting base and fasten it with the mounting fixtures (two at each side and one at rear).




*Mounting of Printer PP-510*

## Printer PP-8800

The printer PP-8800 is flush-mounted in a panel. Refer to the outline drawing at the back of this manual.

1. Make a cutout of 208(w) x 118(h) mm.
2. Set the printer and fix it with four self-tapping screws (4x16).

# Printer Interface (option)

The printer interface IF-8500 is required for the printer PP-510 which is commonly used with the FM-8800D/S and other MF/HF radio communication equipment. To mount the unit, see the outline drawing at the back of this manual.

# External Loudspeaker (option)

The external loudspeaker can be installed on a tabletop, the overhead or a bulkhead. Fasten the loudspeaker to the mounting location with self-tapping screws, or nuts, bolts and washers. For mounting dimensions, see the outline drawing at the back of this manual.

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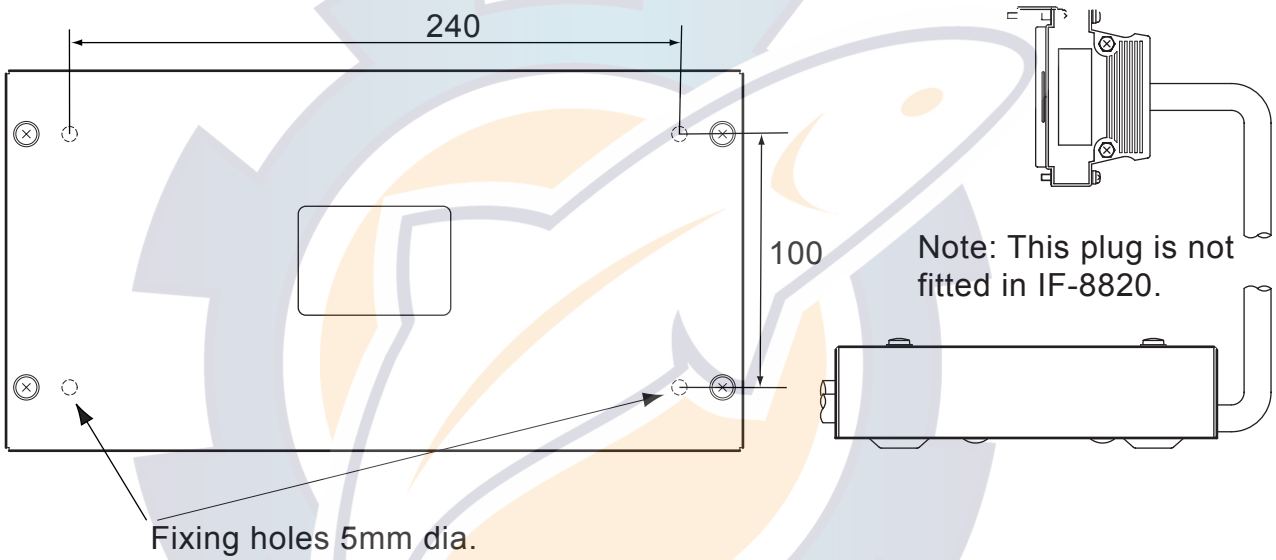
## Junction box IF-8810/ DMC interface IF-8820

**Note:** DMC interface IF-8820 is not used for Russian version.

To install the remote box RB-8800/RB-8810, wing handset, etc., the junction box IF-8810 is required. Install the junction box near the transceiver unit. Approx. 3 m cable is preattached to the junction box to connect to the transceiver unit.

To connect Furuno's distress message controller DMC-5, the DMC interface IF-8820 (option) is required.

1. Open the cover.
2. Mount the unit with four self-tapping screws (5x20).




*Mounting the junction box/DMC interface*

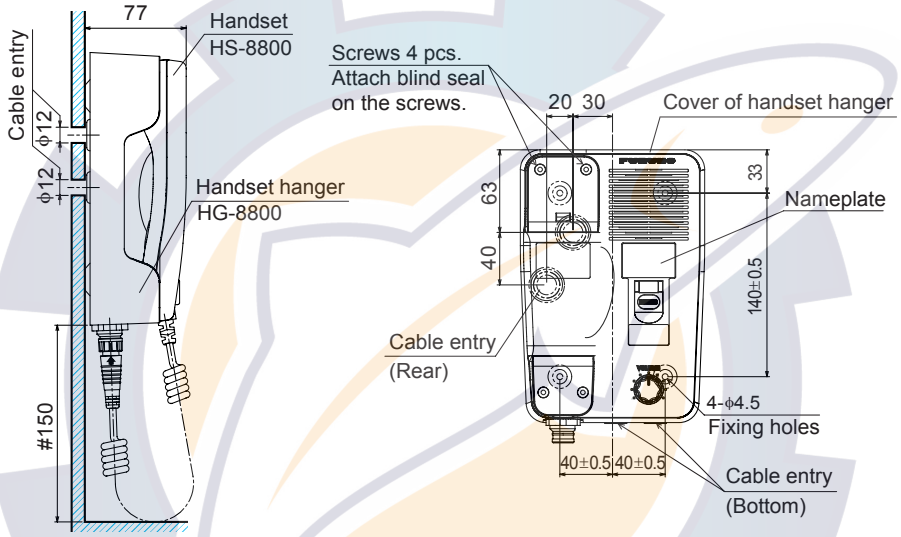
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## Remote station RB-8800/RB-8810 (option)

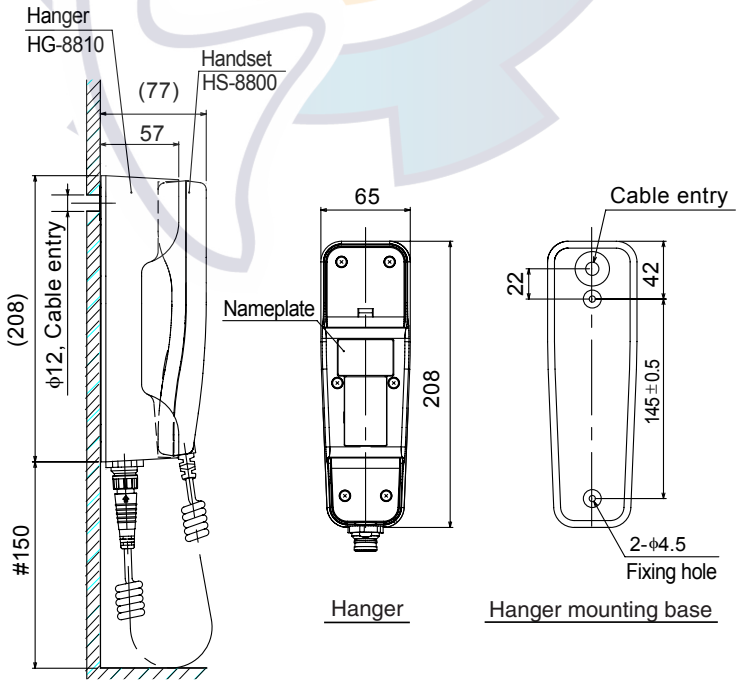
Up to four remote stations can be connected in a daisy chain.

**Note:** For the remote station RB-8800, there are two method of cable entry: bottom-side entry and rear-side entry. For rear-side entry, make one or two holes of more than 12 mm diameter. For last station in the daisy chain, just one cable entry hole is needed.

1. Remove screws on the handset hanger (four for RB-8800, six for RB-8810).
2. Remove upper chassis of the hanger.
3. Mount the base of the hanger to a bulkhead with self-tapping screws 4x20 (four for RB-8800), or 4x16 (two for RB-8810).
4. After connecting cables, assemble the remote station.
5. For RB-8800, attach blind seals on the screws.




*Remote station RB-8800*




*Remote station RB-8810*

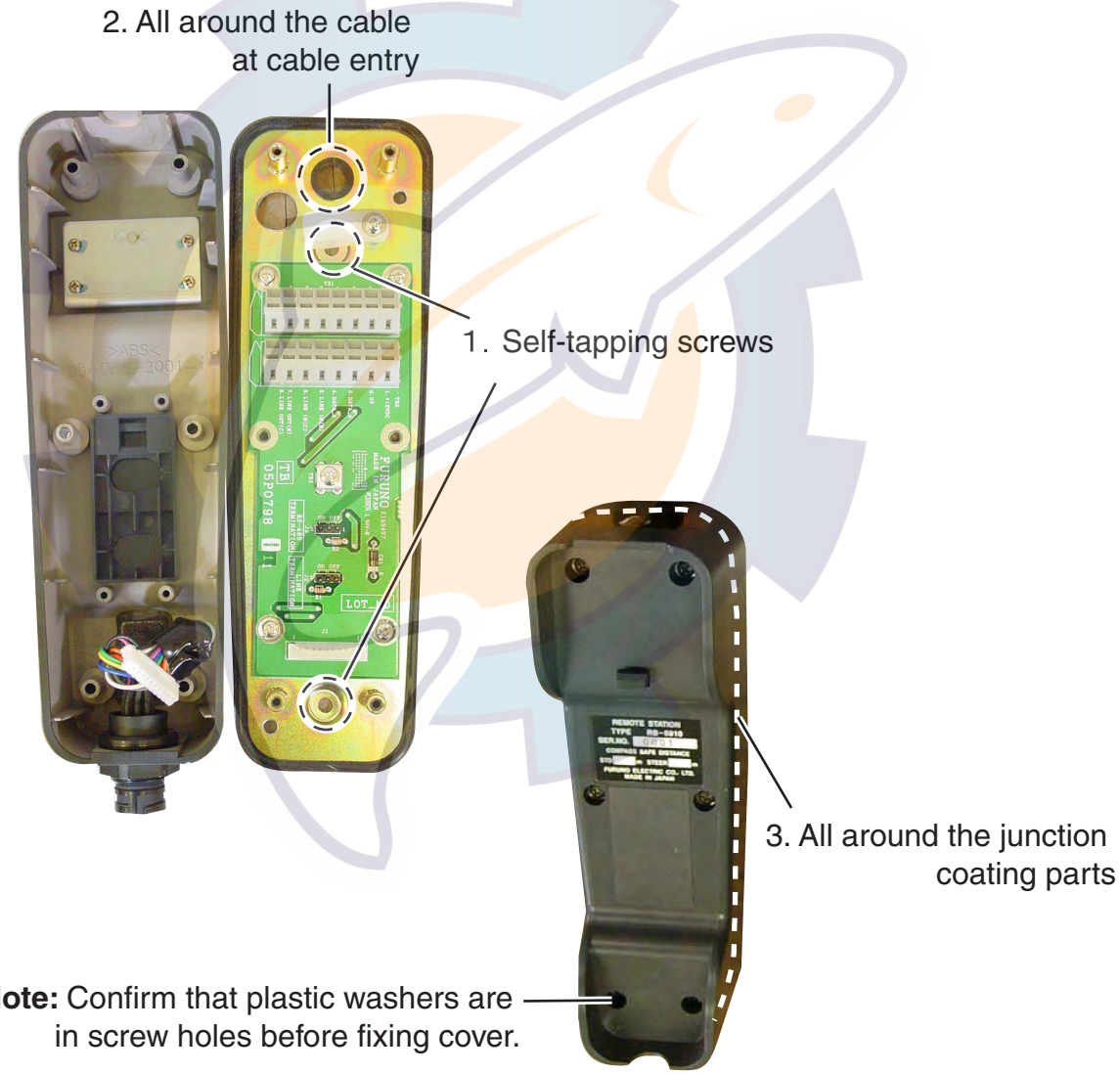
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## Outdoor mounting of RB-8810

Remote station RB-8810 with waterproof-type handset HS-8800-W-35 can be mounted outdoors. The hanger should be coated as directed below with silicone sealant for waterproofness.

1. Fix the mounting base with self-tapping screws. Coat exposed part of these screws with silicone sealant.
2. Attach the cable from the transceiver unit or junction box. Coat cable around cable entrance with silicone sealant
3. Fix the cover of the handset hanger. Coat junction between mounting base and cover with silicone sealant.



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## VHF console

Install the rack console where the equipment can be easily operated, checked and serviced. Consult with shipyard personnel and ship's officer-in-charge to determine best location. The location must satisfy the following points:

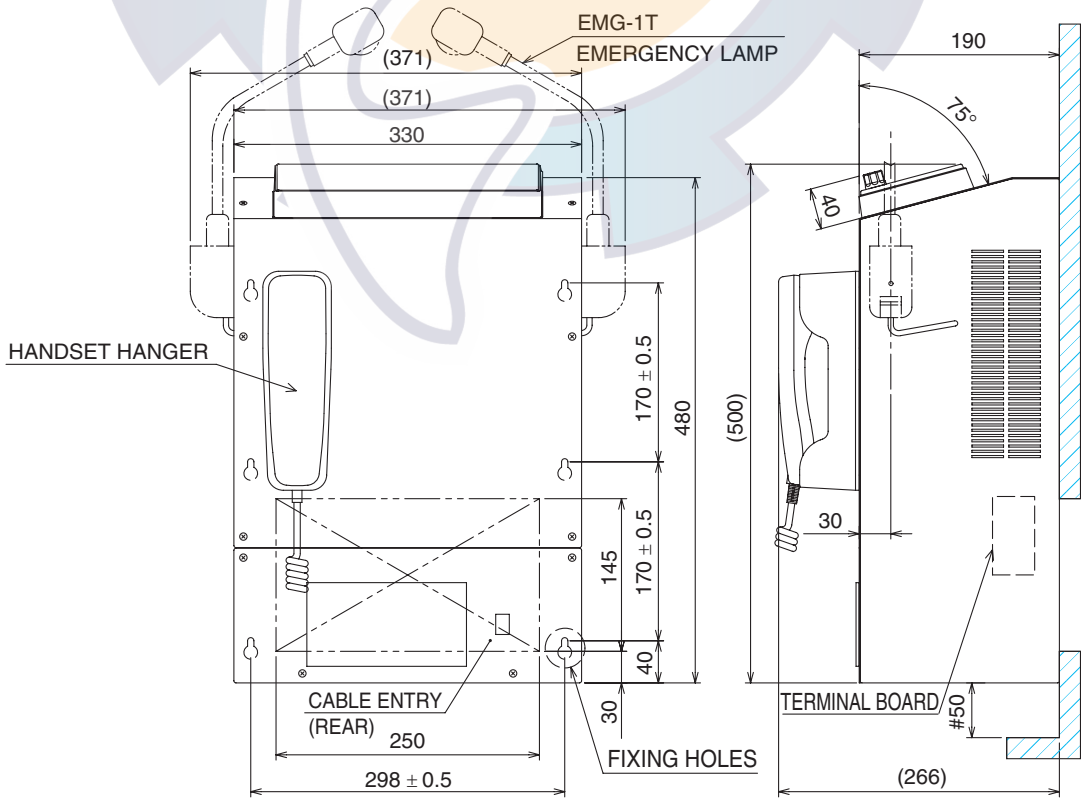
- Select a location where controls can be easily operated.
- Select a location where shock and vibration are minimal.
- Locate the console away from water splash and rain.
- The temperature and humidity of the location should be both stable and moderate.

### Fixing

1. Ask shipyard personnel to tighten six M5 nuts or six M5 bolts to the fixing holes (on the wall), referring to the outline drawing at the back of this manual.
2. Detach the cover assembly from the console.
3. Hang VHF console on bolts.
4. Screw the console with the bolts or nuts tightly.
5. Attach the cover assembly to the console.

**Note:** When you connect wires as soon as attaching console, refer to paragragh 2-10.

6. Attach the handset hanger with two screws.
7. To attach the optional emergency lamp, connect the cable to the terminal board, and then attach the lamp to the console. Refer to the interconnection diagram and out line drawing.

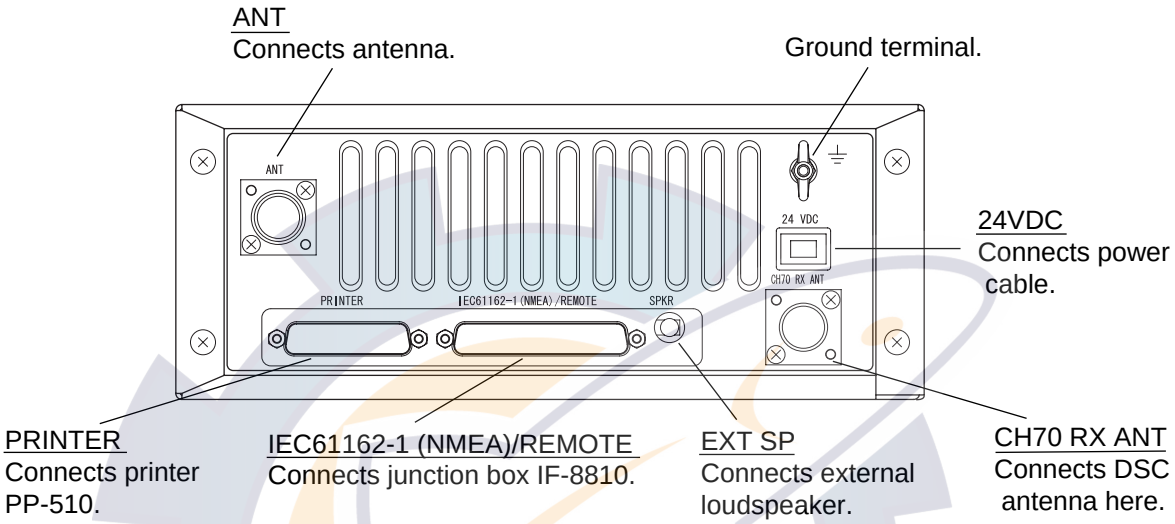


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# 2. CONNECTIONS

## Overview

The figure below shows where to connect various equipment at the rear of the transceiver unit.




*FM-8800D/8800S, rear view*

## Connection of Power Supply

### Convention vessels, 100/220 VAC ship's mains

Convention vessels must supply both AC and DC power to the FM-8800D/8800S, via an AC/DC power supply unit. Both AC and DC are supplied by the AC/DC power supply unit, and when AC input fails DC power is activated.

Connect the radio battery to the DC IN terminal on the PR-240-CE. Connect the AC ship's mains to the AC IN terminal on the PR-240-CE.

### Radio battery (24 VDC)

Attach the connector supplied to the power cable and plug it into the 24VDC connector at the rear of the transceiver unit. Connect the wire ends to the radio battery line.

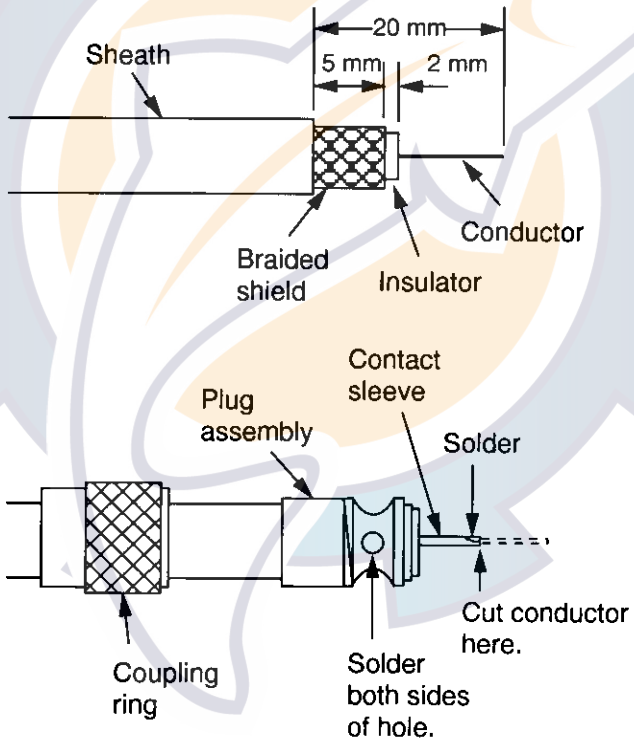
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# Connection of VHF Antenna

The VHF antenna is connected to the transceiver unit with a 50 ohm coaxial cable, type 5D-2V. Be sure to leave some slack in the cable for future service and maintenance.

Lay the coaxial cable and attach an M-type plug to the cable (if necessary) as follows.

1. Remove the sheath by 20 mm.
2. Bare 13 mm of the center conductor. Trim braided shield by 5 mm and tin.
3. Slide coupling ring onto cable.
4. Screw the plug assembly on the cable.
5. Solder plug assembly to braided shield through solder holes. Solder contact sleeve to conductor.
6. Screw coupling ring into plug assembly.
7. Screw the plug into the ANT connector at the rear of the transceiver unit.




*How to attach the M-type plug to the coaxial cable*

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## Connection of DSC Antenna

The DSC antenna is connected to the transceiver unit with a 50 ohm coaxial cable, type 5D-2V. Attach an M-type plug to the cable (if necessary) as shown an page 2-2. Screw the plug into the CH70 RX ANT connector at the rear of the transceiver unit.

## Connection of Handset

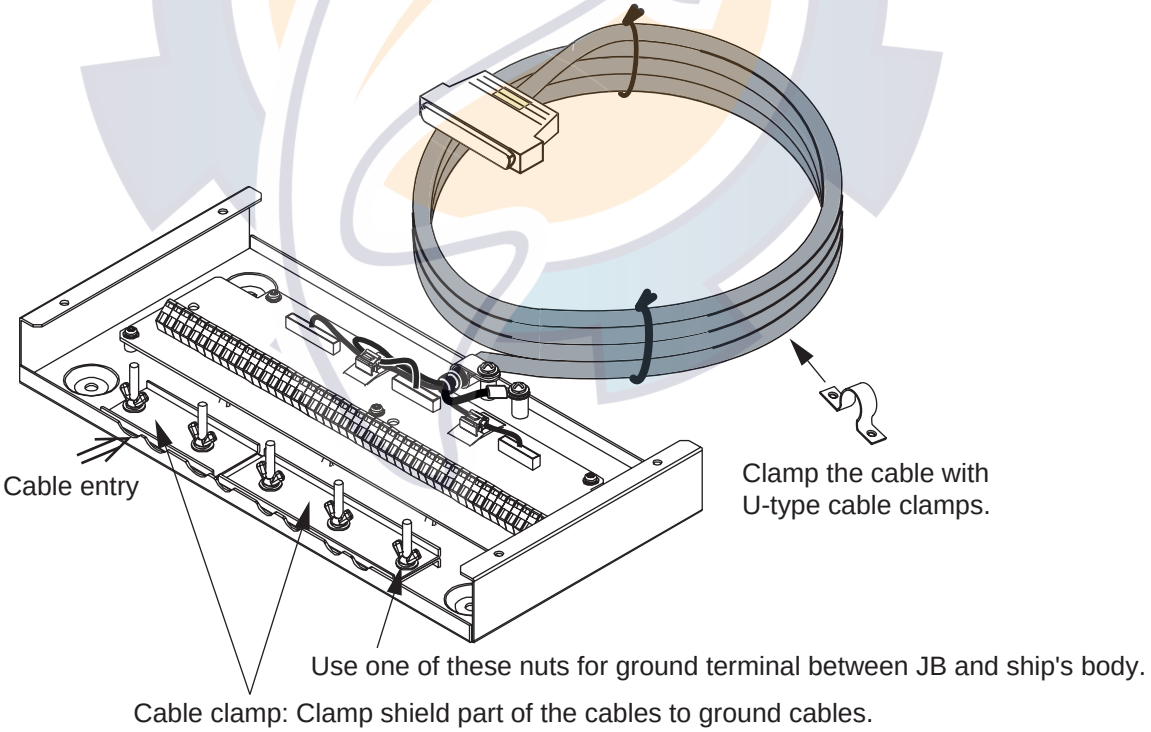
Connect the handset cable to the HANDSET connector on the front panel.

## Grounding the Transceiver Unit

Fasten a ground wire (local supply) between the GND terminal at the rear of the transceiver unit and ship's hull (or ground bus).

## Connecting the Junction Box

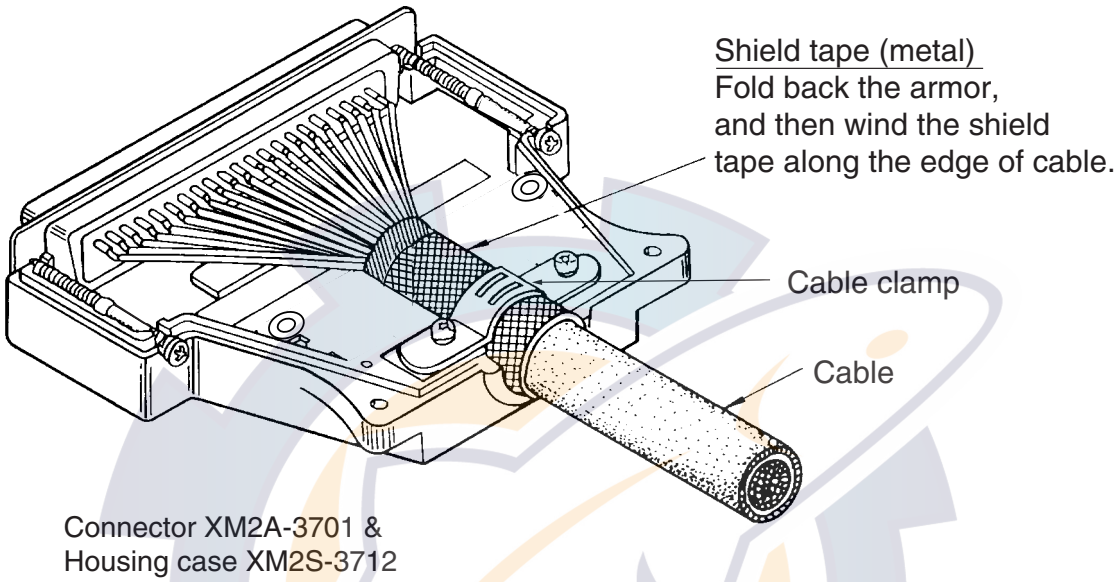
The junction box is required to connect a remote station, wing handset, etc. The cable to be connected with the transceiver unit is prefitted on the junction box at the factory. For connection of other cables, see the interconnection diagram.



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# Connecting the Remote Station without the Junction Box

The remote station (or DMC Interface, Mic. Receptacle box, etc) can be connected directly to the transceiver unit, using the D-sub connector supplied as installation materials. Attach the connector to the cable as follows.

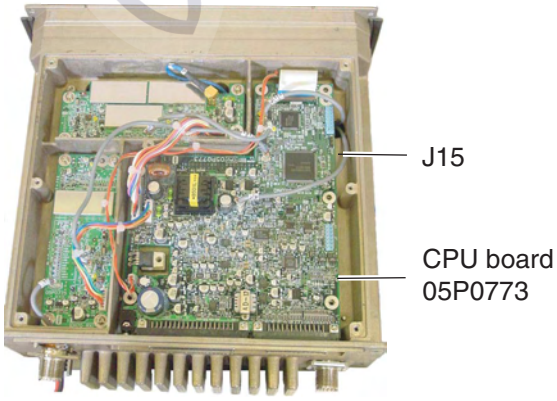



*Attachment of connector*

# When the handset HS-2003 is not connected to the Transceiver unit

When the handset HS-2003 is not connected to the transceiver unit, i.e.,always the remoted handset is used, the following modification is necessary.

1. Dismount the cover of the transceiver unit by removing four screws at the rear panel and two screws at the side.
2. Dismount the bottom cover by removing seven screws.




3. Shorten between #1 and #2 of J15. The handset line of the HANDSET port becomes always “ON HOOK”.
4. Assemble the unit.

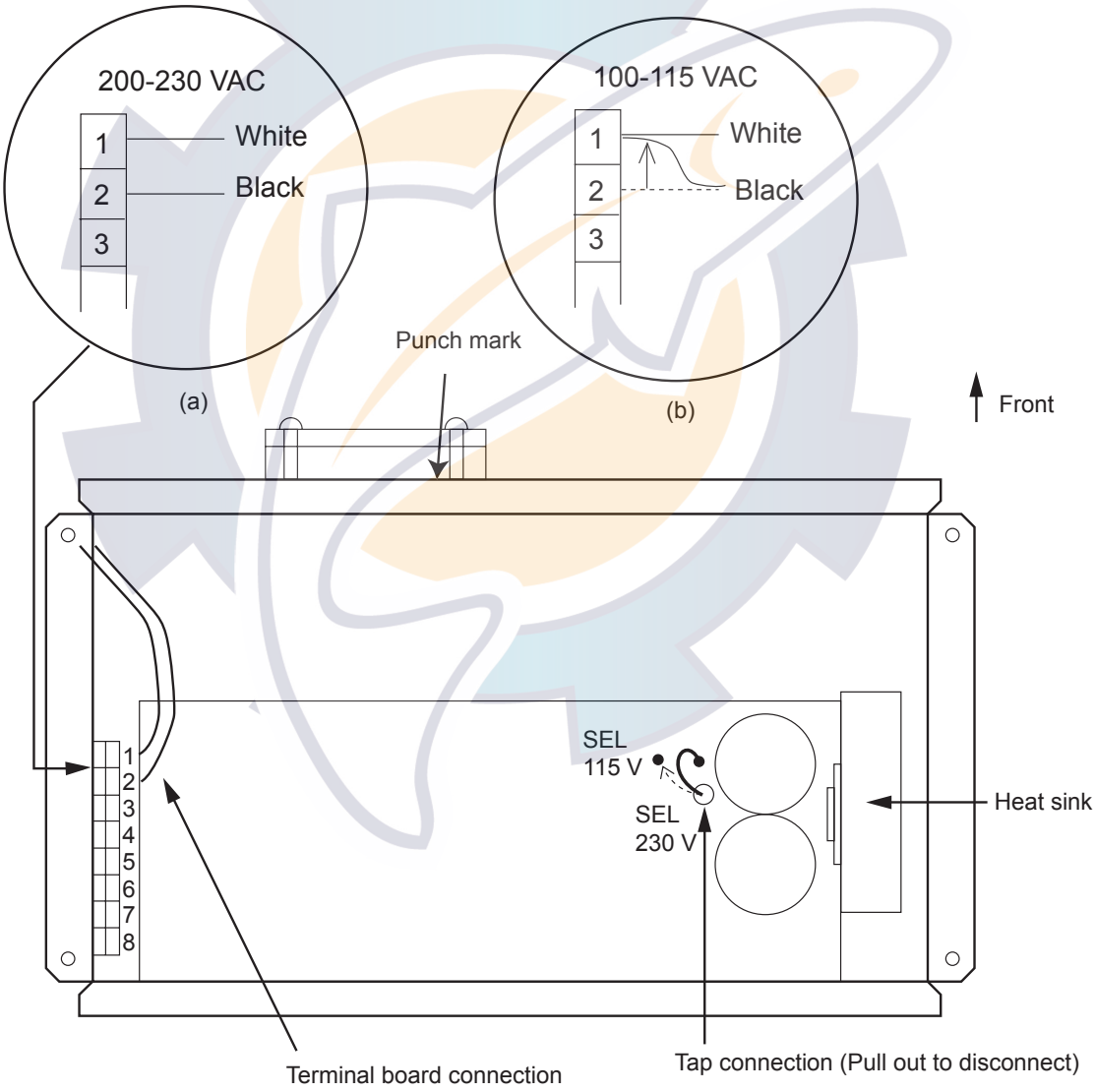
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# Connection of AC/DC Power Supply Unit PR-240-CE

The power supply PR-240-CE is shipped ready for connection to a 200-230 VAC ship's mains. If the ship's mains is 100 VAC – 115 VAC, change the tap connection and terminal board connection as below. Attach label supplied as accessories to the punch mark in the front panel according to the ship's mains.

| Ship's mains | Tap connection | Terminal board connection #1 & #2 |
|---|---|---|
| 100-115 VAC | SEL 115 V | b |
| 200-230 VAC | SEL 230 V | a |




*Top view of AC/DC power supply unit (cover removed)*

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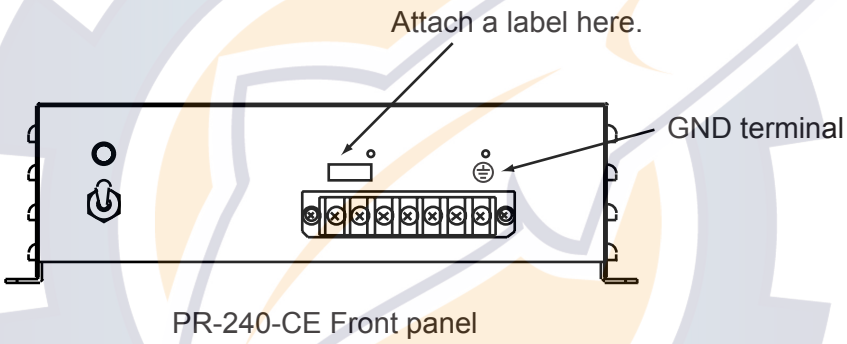

## Protective earth

Connect IV-2.0sq wire between ship’s superstructure and the ground terminal on the PR-240-CE.

**⚠ CAUTION**

**Attach protective earth securely to the ship's body.**

The protective earth (grounding) is required for the AC/DC power supply unit to prevent electrical shock.




PR-240-CE Front panel

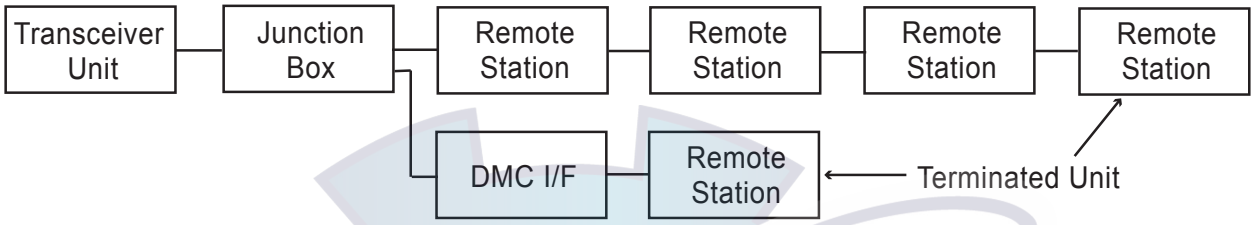
www.reelschematic.com



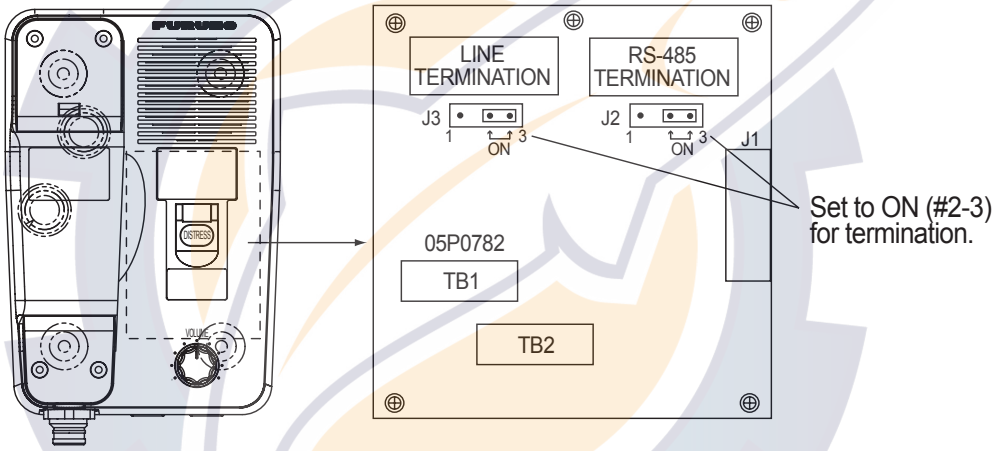
# Jumper Setting for Termination

**Note:** DMC interface is not used for Russian version.

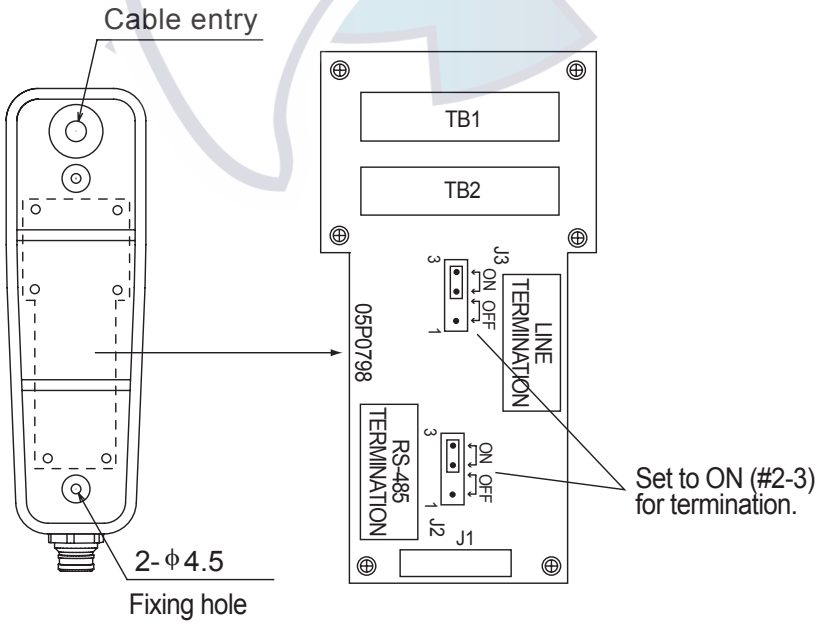
It is necessary, for termination, to change the jumper setting for remote station or DMC interface.
Open the unit(s) terminated and change the jumper plugs J2 and J3 to ON position (#2-#3). (Default setting is OFF position.)




Note that up to four remote stations can be connected.

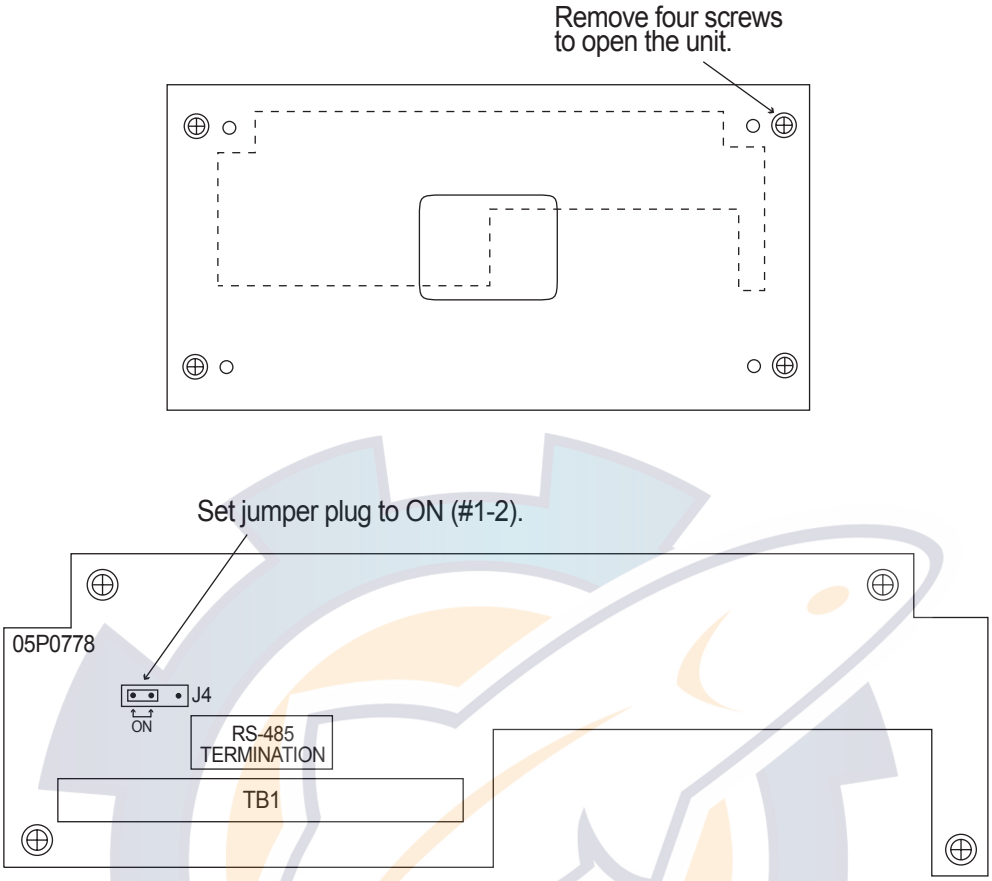



*Remote station RB-8800*




*Remote station RB-8810*

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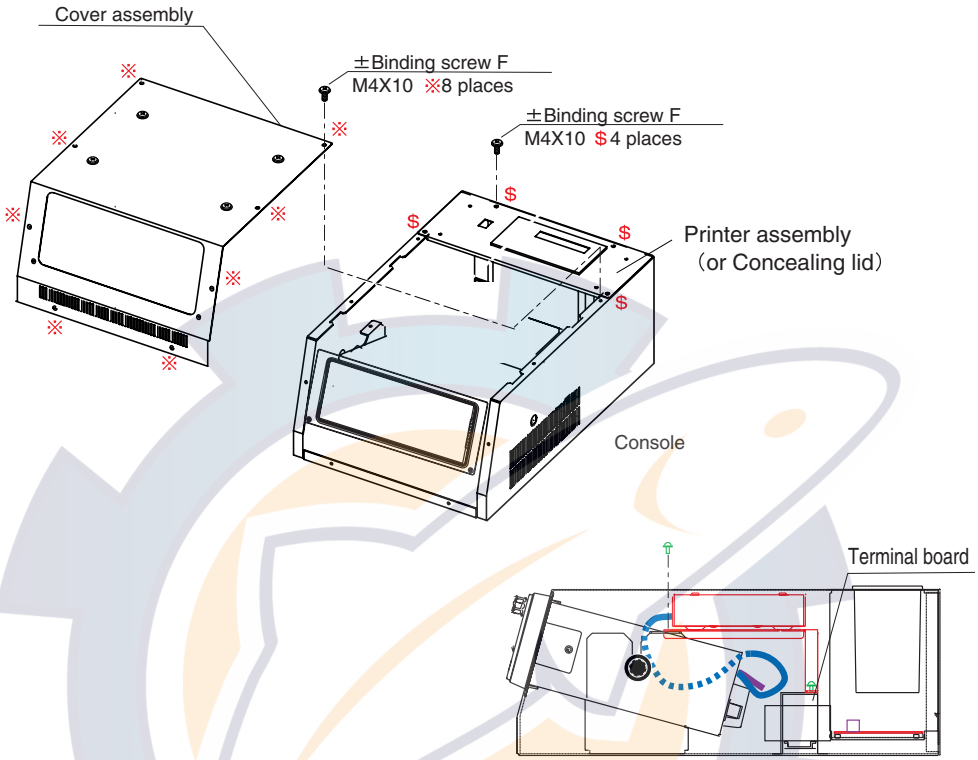

*DMC Interface IF-8820*

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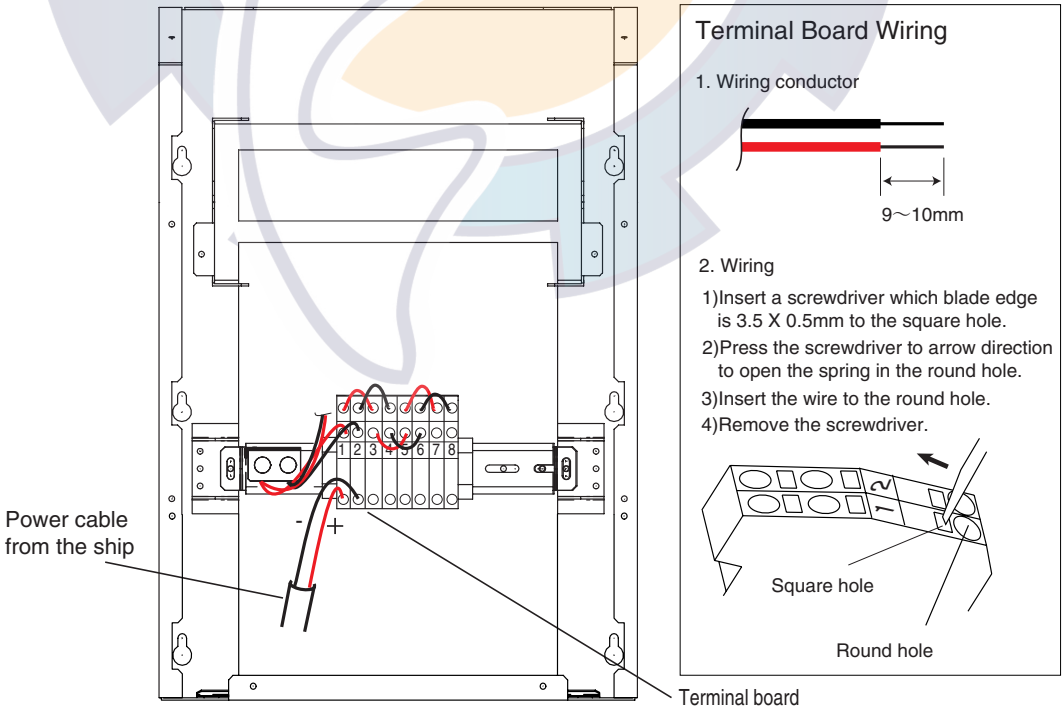


## 2.10 Wire connection of VHF console

1. Remove the cover assembly and printer assembly (or concealing lid) form the console. For the printer assembly, remove the cables connected at the Transceiver Unit and the terminal board.




2. Connect the power cable from the ship to the terminal block 1 (+) and 2 (-).




3. Connect the ground wire from ship to each ground terminal for the transceiver unit and the junction box.
4. Connect cables from external equipments to the junction box.
5. Fix the printer assembly (or concealing lid) and the cover assembly.

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# 3. ASSEMBLING CONSOLE KIT

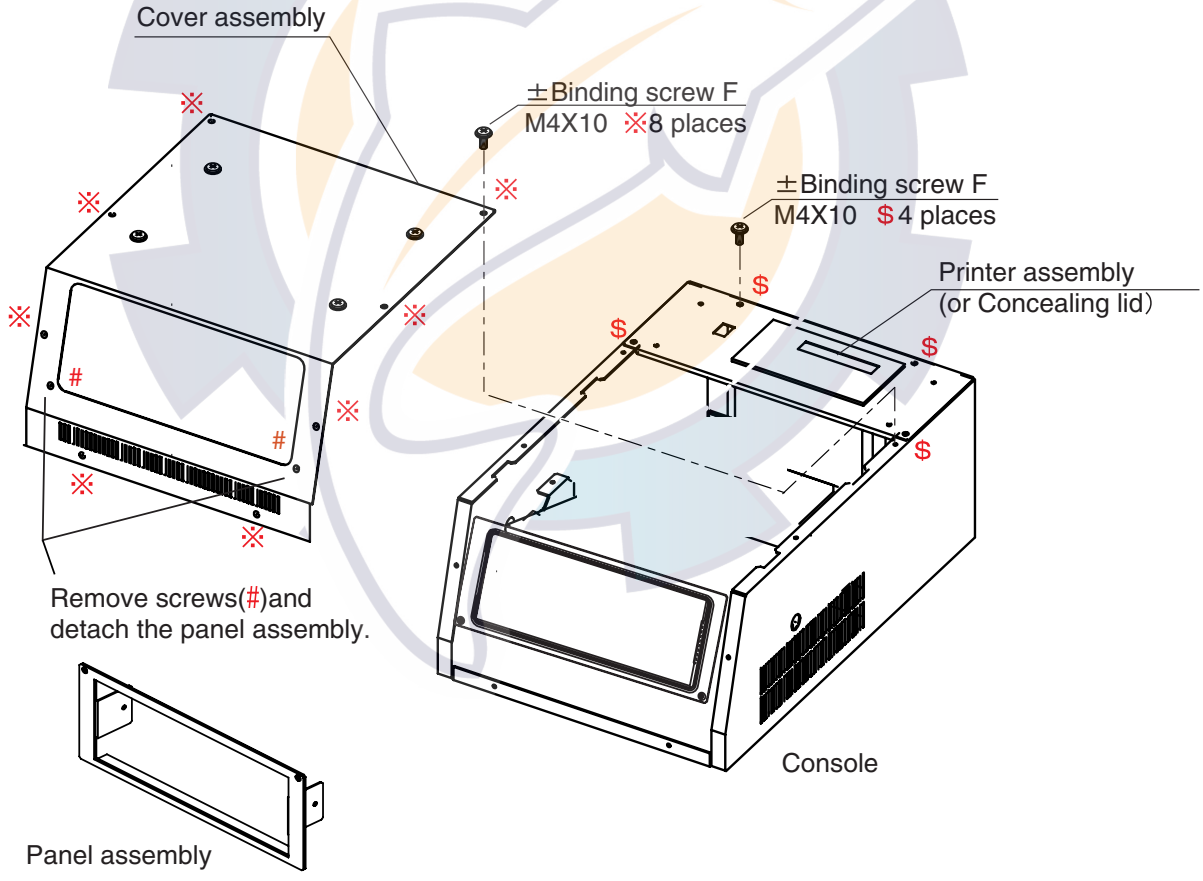
A VHF console kit is required to mount the Transceiver Unit in the field. There are two types as shown below.

**VHF console kit**

| Type | Code No. | Remarks |
|---|---|---|
| RC-8800-N-75BG | 000-054-125 | Without printer |
| RC-8800-A-75BG | 000-054-126 | With printer |

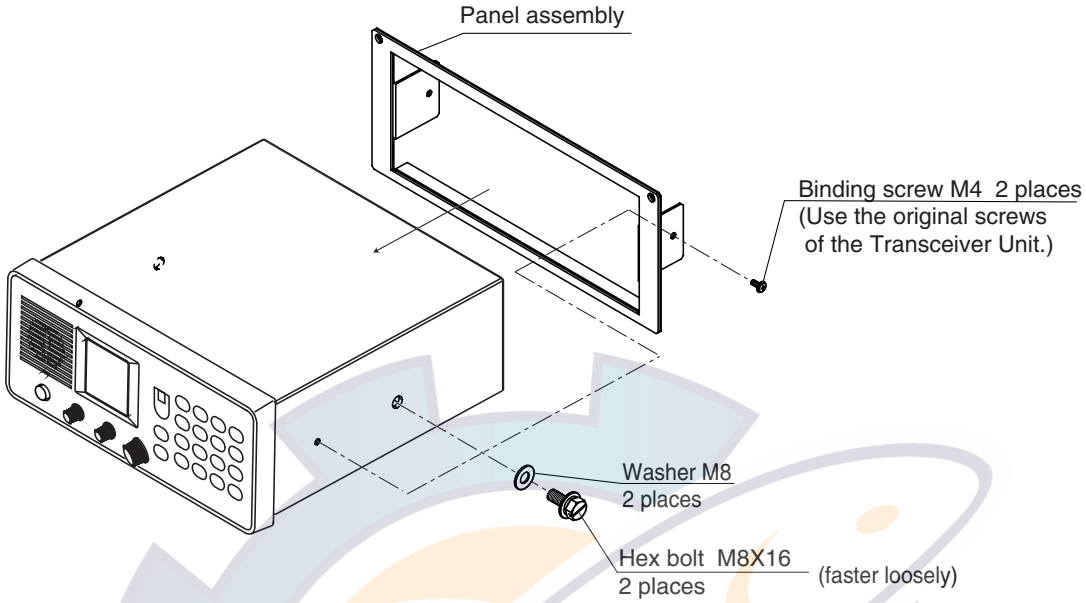
## Assembling the Console Kit

1. Remove the cover assembly, the panel assembly and the printer assembly (or concealing lid) from the console. For the printer assembly, remove the cable connected to the terminal board.

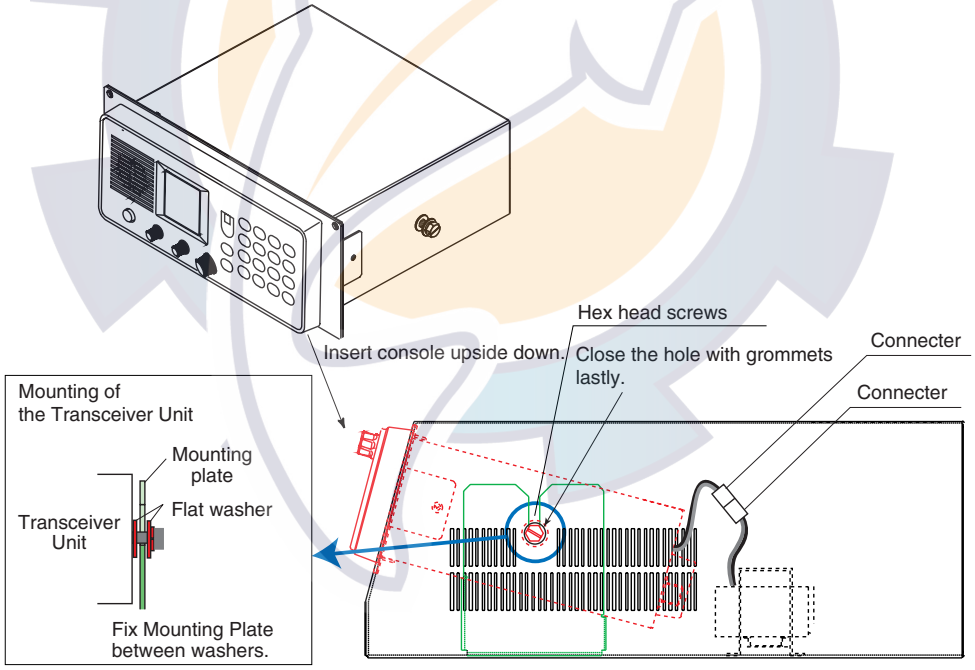


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2. Fix the panel assembly to the Transceiver Unit with binding screws (use original binding screws of the Transceiver Unit). Refer to the figure below.
3. Screw in hex bolts M8x16 and flat washers loosely at both sides of the Transceiver Unit.



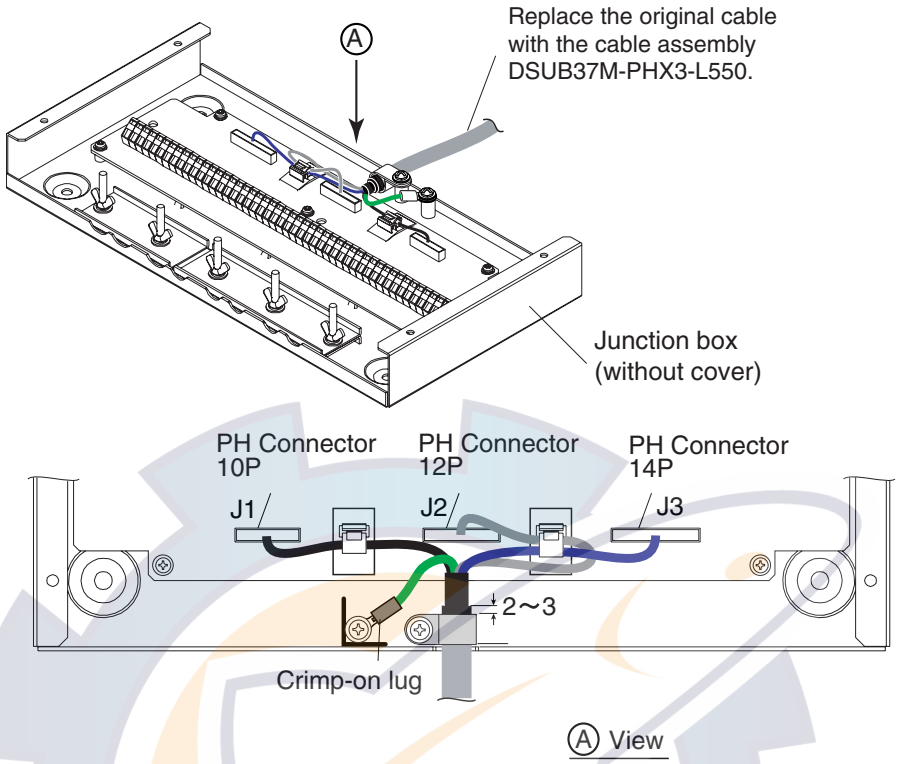

4. Set the Transceiver Unit to the console, remove the grommets from the console and fix the Transceiver Unit with hex bolts using the holes formerly occupied by the grommets.



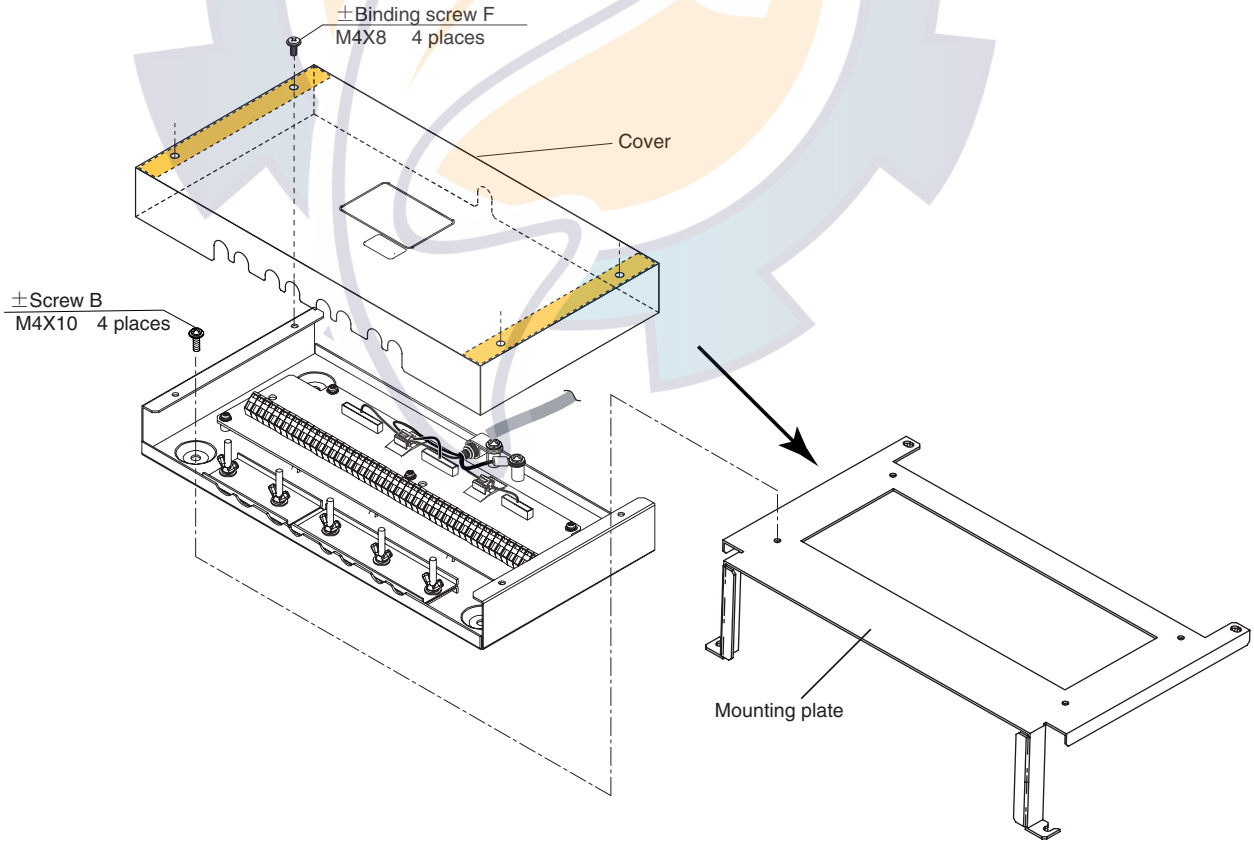

5. Connect connector from the fuse to the power connector derived from the Transceiver Unit.

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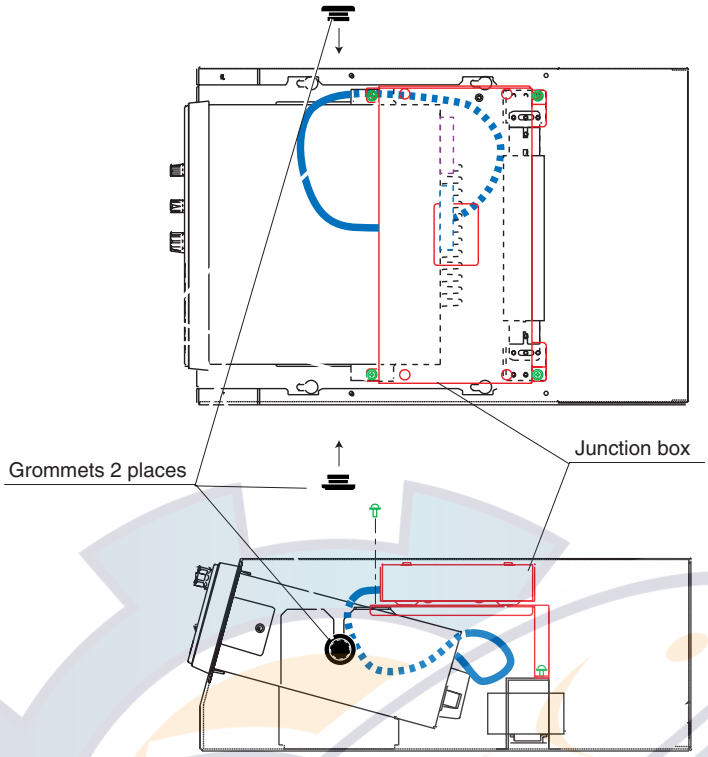
6. Replace the cable attached to junction box with the cable (55 cm, 37-pin D sub) supplied with the console kit.



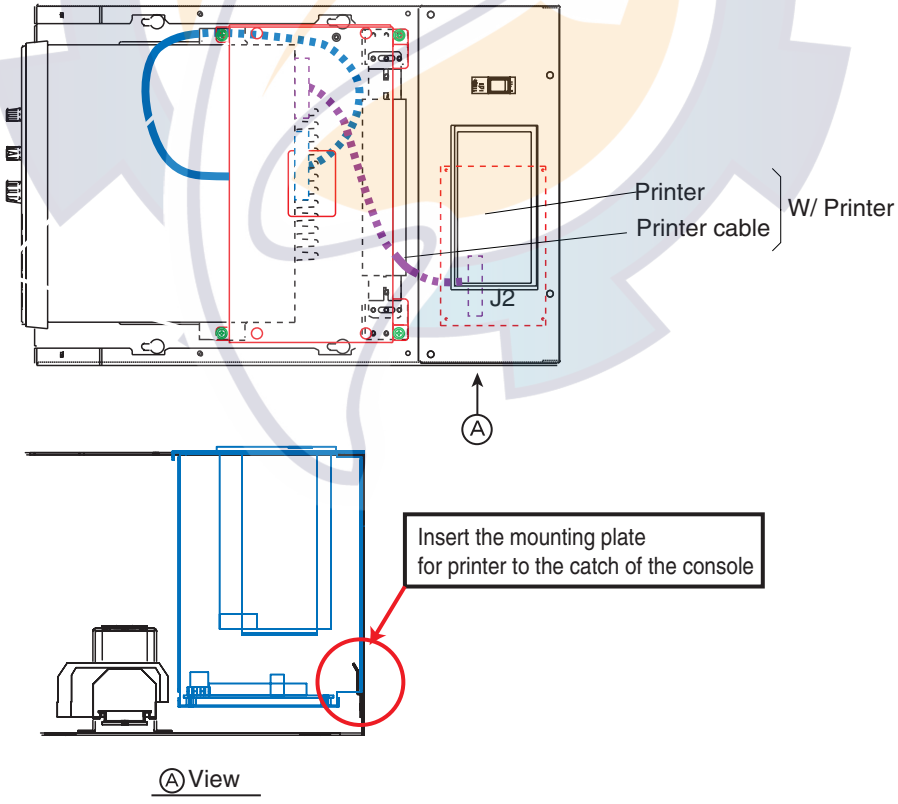

7. Connect the cable (37-pin D sub) attached to the junction box to the Transceiver Unit and then mount the junction box on the console.



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8. For the console w/printer, connect the printer cable for data transmission to the PRINTER port of the Transceiver Unit and fix the power cable to the terminal board as before. Then, fix the printer assembly to the console. For no printer, fasten the concealing lid to the console.



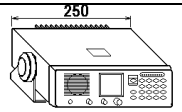
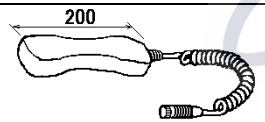
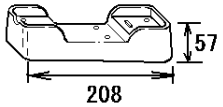

9. Fasten the cover assembly.

NOTE: If the console assembly is to be mounted on the hull, refer to paragraghs 1-9 and 2-10.

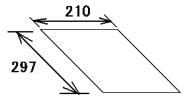
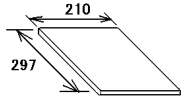
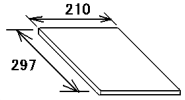
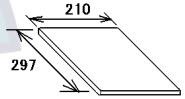
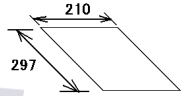
# PACKING LIST

**FM-8800S-J/E-N/FM-8800D-J/E-N**



| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| **ユニット UNIT** | | | |
| 送受信機<br>TRANSCEIVER UNIT |  | FM-8800S/D<br>000-054-225 ** | 1 |
| **予備品 SPARE PARTS** | | **SP05-05501** | |
| 予備品<br>SPARE PARTS |  | SP05-05501<br>005-377-820 | 1 |
| **付属品 ACCESSORIES** | | **FP05-05700** | |
| ﾊﾝﾄﾞｾｯﾄ<br>HANDSET |  | HS-2003<br>000-054-223 | 1 |
| ﾊﾝﾄﾞｾｯﾄﾊﾝｶﾞｰ組品<br>BRACKET FOR HANDSET |  | FP05-05510<br>005-951-790 | 1 |
| 付属品<br>ACCESSORIES |  | FP05-05511<br>005-951-920 | 1 |
| **工事材料 INSTALLATION MATERIALS** | | **CP05-09900** | |
| ｹｰﾌﾞﾙ組品<br>CABLE ASSY. |  | 05S9371-0<br>000-151-711 | 1 |
| 工事材料<br>INSTALLATION MATERIALS |  | CP05-09901<br>005-377-800 | 1 |

ｺｰﾄﾞ番号末尾の[**]は、選択品の代表型式/ｺｰﾄﾞを表します。
CODE NUMBER ENDING WITH "**" INDICATES THE CODE NUMBER OF REPRESENTATIVE MATERIAL.

| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| **図書 DOCUMENT** | | | |
| 遭難警報ﾌﾛｰVHFMF*<br>VHF/MF DISTRESS ALERT FLOW |  | *52-00101-*<br>000-809-270 | 1 |
| 操作要領書<br>OPERATOR'S GUIDE |  | OS*-56420-*<br>000-149-934 ** | 1 |
| 装備要領書<br>INSTALLATION MANUAL |  | IM*-56420-*<br>000-149-932 ** | 1 |
| 取扱説明書<br>OPERATOR'S MANUAL |  | OM*-56420-*<br>000-149-930 ** | 1 |
| 遭難通信要領書<br>DISTRESS PROCEDURE |  | TIC-56420-*<br>000-149-935 | 1 |

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（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）

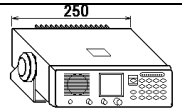
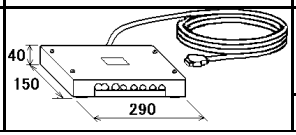
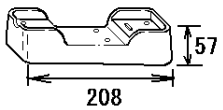
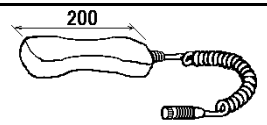


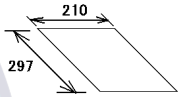
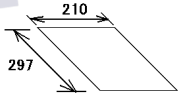
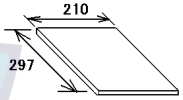
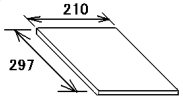
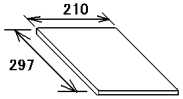
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# PACKING LIST

FM-8800S-J/E-A/FM-8800D-J/E-A、FM-8800S-J/E-A-HK/FM-8800D-J/E-A-HK



| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| **ユニット UNIT** | | | |
| 送受信機<br>TRANSCEIVER UNIT |  | FM-8800S*/D*<br>000-054-166 ** | 1 |
| ｾﾂｿﾞｸﾊﾞｺ<br>JUNCTION BOX |  | IF-8810<br>000-054-219 | 1 |
| **予備品 SPARE PARTS** | | | |
| 予備品<br>SPARE PARTS |  | SP05-05501<br>005-377-820 | 1 |
| **付属品 ACCESSORIES** | | **FP05-05700** | |
| 付属品<br>ACCESSORIES |  | FP05-05511<br>005-951-920 | 1 |
| ﾊﾝﾄﾞｾｯﾄﾊﾝｶﾞｰ組品<br>BRACKET FOR HANDSET |  | FP05-05510<br>005-951-790 | 1 |
| ﾊﾝﾄﾞｾｯﾄ<br>HANDSET |  | HS-2003<br>000-054-223 | 1 |
| **工事材料 INSTALLATION MATERIALS** | | **CP05-09900** | |
| 工事材料<br>INSTALLATION MATERIALS |  | CP05-09901<br>005-377-800 | 1 |

| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| ｹｰﾌﾞﾙ組品<br>CABLE ASSY. |  | 05S9371-0<br>000-151-711 | 1 |
| **工事材料 INSTALLATION MATERIALS** | | **CP05-08701** | |
| 工事材料<br>INSTALLATION MATERIALS |  | CP05-08701<br>005-949-280 | 1 |
| **図書 DOCUMENT** | | | |
| 遭難警報ﾌﾛVHFMF*<br>VHF/MF DISTRESS ALERT FLOW |  | *52-00101-*<br>000-809-270 | 1 |
| 遭難通信要領書<br>DISTRESS PROCEDURE |  | TIC-56420-*<br>000-149-935 ** | 1 |
| 操作要領書<br>OPERATOR'S GUIDE |  | OS*-56420-*<br>000-149-934 ** | 1 |
| 取扱説明書<br>OPERATOR'S MANUAL |  | OM*-56420-*<br>000-149-930 ** | 1 |
| 装備要領書<br>INSTALLATION MANUAL |  | IM*-56420-*<br>000-149-932 ** | 1 |

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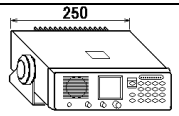
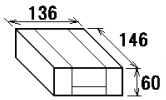
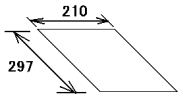
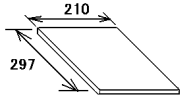


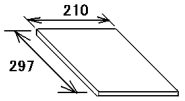
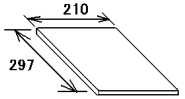
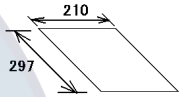
www.reelschematic.com

# PACKING LIST

**FM-8800S-F-N/FM-8800D-F-N**



| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| **ユニット UNIT** | | | |
| 送受信機<br>TRANSCEIVER UNIT |  | FM-8800S/D<br>000-054-225 ** | 1 |
| **予備品 SPARE PARTS** | | | |
| 予備品<br>SPARE PARTS |  | SP05-05501<br>005-377-820 | 1 |
| **付属品 ACCESSORIES** | | **FP05-05710** | |
| ﾏｲｸﾛﾌｫﾝ箱詰品<br>MICROPHONE |  | DM-2003-F<br>005-377-760 | 1 |
| **工事材料 INSTALLATION MATERIALS** | | **CP05-09900** | |
| ｹｰﾌﾞﾙ組品<br>CABLE ASSY. |  | 05S9371-0<br>000-151-711 | 1 |
| 工事材料<br>INSTALLATION MATERIALS |  | CP05-09901<br>005-377-800 | 1 |
| **図書 DOCUMENT** | | | |
| 遭難警報ﾌﾛVHFMF*<br>VHF/MF DISTRESS ALERT FLOW |  | *52-00101-*<br>000-809-270 | 1 |
| 装備要領書<br>INSTALLATION MANUAL |  | IM*-56420-*<br>000-149-932 | 1 |

| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| 取扱説明書<br>OPERATOR'S MANUAL |  | OM*-56420-*<br>000-149-930 | 1 |
| 操作要領書<br>OPERATOR'S GUIDE |  | OS*-56420-*<br>000-149-934 | 1 |
| 遭難通信要領書<br>DISTRESS PROCEDURE |  | TIC-56420-*<br>000-149-935 | 1 |

CODE NUMBER ENDING WITH "**" INDICATES THE CODE NUMBER OF REPRESENTATIVE MATERIAL.

（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）

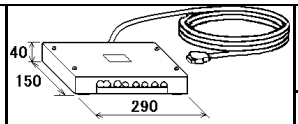
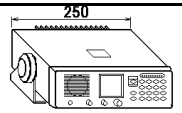
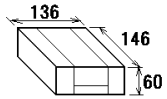
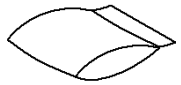


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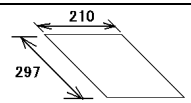
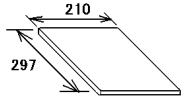
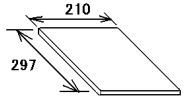
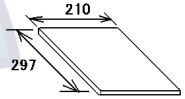
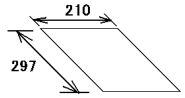
# PACKING LIST

FM-8800S-F-A/FM-8800D-F-A

05EC-X-9859-2 1/1

| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| **ユニット UNIT** | | | |
| ｾﾂｿﾞｸﾊﾞｺ<br>JUNCTION BOX |  | IF-8810<br>000-054-219 | 1 |
| 送受信機<br>TRANSCEIVER UNIT |  | FM-8800S/D<br>000-054-225 ** | 1 |
| **予備品 SPARE PARTS** | | | |
| 予備品<br>SPARE PARTS |  | SP05-05501<br>005-377-820 | 1 |
| **付属品 ACCESSORIES** | | **FP05-05710** | |
| ﾏｲｸﾛﾌｫﾝ箱詰品<br>MICROPHONE |  | DM-2003-F<br>005-377-760 | 1 |
| **工事材料 INSTALLATION MATERIALS** | | **CP05-09900** | |
| ｹｰﾌﾞﾙ組品<br>CABLE ASSY. |  | 05S9371-0<br>000-151-711 | 1 |
| 工事材料<br>INSTALLATION MATERIALS |  | CP05-09901<br>005-377-800 | 1 |
| **工事材料 INSTALLATION MATERIALS** | | | |
| 工事材料<br>INSTALLATION MATERIALS |  | CP05-08701<br>005-949-280 | 1 |

CODE NUMBER ENDING WITH "**" INDICATES THE CODE NUMBER OF REPRESENTATIVE MATERIAL.

| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| **図書 DOCUMENT** | | | |
| 遭難警報ﾌﾛVHFMF*<br>VHF/MF DISTRESS ALERT FLOW |  | *52-00101-*<br>000-809-270 | 1 |
| 装備要領書<br>INSTALLATION MANUAL |  | IM*-56420-*<br>000-149-932 | 1 |
| 取扱説明書<br>OPERATOR'S MANUAL |  | OM*-56420-*<br>000-149-930 | 1 |
| 操作要領書<br>OPERATOR'S GUIDE |  | OS*-56420-*<br>000-149-934 | 1 |
| 遭難通信要領書<br>DISTRESS PROCEDURE |  | TIC-56420-*<br>000-149-935 | 1 |

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（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）

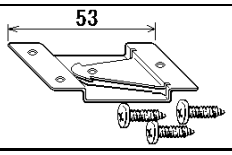
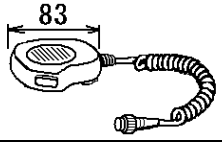
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# PACKING LIST

05EC-X-9857 -1 1/1

## DM-2003-F

| N A M E | O U T L I N E | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| マイクセット MICROPHONE SET | | | |
| フック<br>HOOK |  | ZIRXXCDM002<br>000-150-017 | 1 |
| マイクロフォン<br>MICROPHONE |  | KON-003<br>000-150-016 | 1 |

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

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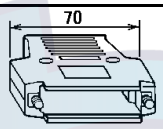
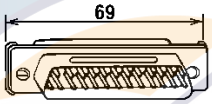
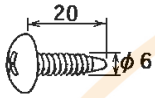


FURUNO

| CODE NO. | 005-377-800 | 05EC-X-9401 -2 |
|---|---|---|
| TYPE | CP05-09901 | 1/1 |

# 工事材料表

INSTALLATION MATERIALS

| 番 号 NO. | 名 称 NAME | 略 図 OUTLINE | 型名／規格 DESCRIPTIONS | 数量 Q'TY | 用途／備考 REMARKS |
|---|---|---|---|---|---|
| 1 | ﾐﾆﾋﾟﾝ組品(1)<br>CABLE ASSY. |  | L-420<br>CODE NO. 000-151-748 | 1 | Used only Japan |
| 2 | ｺﾈｸﾀﾌｰﾄﾞ(XM2)<br>HOUSING CASE |  | XM2S-3712<br>CODE NO. 000-145-423 | 1 | |
| 3 | ｺﾈｸﾀ(XM2)<br>CONNECTOR |  | XM2A-3701<br>CODE NO. 000-145-424 | 1 | |
| 4 | +ﾄﾗｽﾀｯﾋﾟﾝﾈｼﾞ 1種<br>SELF-TAPPING SCREW |  | 6X20 SUS304<br>CODE NO. 000-802-084 | 5 | |

05EC-X-9401

FURUNO ELECTRIC CO ., LTD.

（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）

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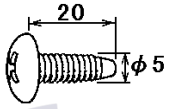


FURUNO

| CODE NO. | 005-949-280 | 05DY-X-9417 -0 |
|---|---|---|
| TYPE | CP05-08701 | 1/1 |

# 工事材料表

INSTALLATION MATERIALS

| 番 号 NO. | 名 称 NAME | 略 図 OUTLINE | 型名／規格 DESCRIPTIONS | | 数量 Q'TY | 用途／備考 REMARKS |
|---|---|---|---|---|---|---|
| 1 | +ﾄﾗｽﾀｯﾋﾟﾝﾈｼﾞ 1種<br>SELF-TAPPING SCREW |  | 5X20 SUS304 | | 4 | |
| | | | CODE NO. | 000-802-081 | | |

05DY-X-9417

FURUNO ELECTRIC CO ., LTD.

（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）

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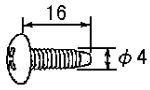


FURUNO

| CODE NO. | 005-951-920 | 05DZ-X-9502 -0 |
|---|---|---|
| TYPE | FP05-05511 | 1/1 |

# 付属品表

ACCESSORIES

| 番 号 NO. | 名 称 NAME | 略 図 OUTLINE | 型名／規格 DESCRIPTIONS | | 数量 Q'TY | 用途／備考 REMARKS |
|---|---|---|---|---|---|---|
| 1 | +ﾄﾗｽﾀｯﾋﾟﾝﾈｼﾞ<br>SELF-TAPPING SCREW |  | 4X16 SUS304 1ｼｭ | | 2 | |
| | | | CODE NO. | 000-802-080 | | |
| 2 | ﾎﾟﾘｶﾜｯｼｬｰ<br>WASHER |  | M4 | | 2 | |
| | | | CODE NO. | 000-864-937 | | |

05DZ-X-9502

FURUNO ELECTRIC CO ., LTD.

（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）

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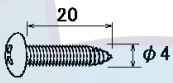
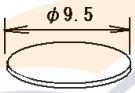
FURUNO

| CODE NO. | 005-959-720 | 05EC-X-9502 -2 |
|---|---|---|
| TYPE | FP05-05701 | 1/1 |

# 付属品表

ACCESSORIES

RB-8800

| 番 号 NO. | 名 称 NAME | 略 図 OUTLINE | 型名／規格 DESCRIPTIONS | | 数量 Q'TY | 用途／備考 REMARKS |
|---|---|---|---|---|---|---|
| 1 | ﾎﾟﾘｶﾜｯｼｬｰ WASHER |   | M4 | | 4 | |
| | | | CODE NO. | 000-864-937 | | |
| 2 | +ﾄﾗｽﾀｯﾋﾟﾝﾈｼﾞ SELF-TAPPING SCREW |   | 4X20 SUS304 | | 4 | |
| | | | CODE NO. | 000-805-687 | | |
| 3 | ﾌﾞﾗｲﾝﾄﾞｼｰﾙ SEAL |   | 05-086-1102-2 | | 4 | |
| | | | CODE NO. | 100-281-282 | | |

05EC-X-9502



（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）

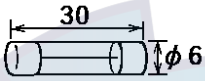
www.reelschematic.com



FURUNO

| CODE NO. | 005-377-820 | 05EC-X-9301 -0 1/1 |
|---|---|---|
| TYPE | SP05-05501 | BOX NO. P |

| SHIP NO. | SPARE PARTS LIST FOR | U S E | SETS PER VESSEL |
|---|---|---|---|
| | | | |

| ITEM NO. | NAME OF PART | OUTLINE | DWG. NO. OR TYPE NO. | QUANTITY | | | REMARKS/CODE NO. |
|---|---|---|---|---|---|---|---|
| | | | | WORKING | | SPARE | |
| | | | | PER SET | PER VES | | |
| 1 | ﾋｭｰｽﾞ<br>FUSE |  | FGBO 15A<br>AC125V | | | 2 | 000-549-014 |
| | | | | | | | |
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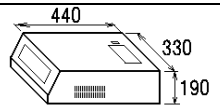
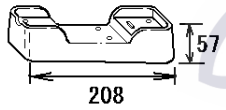
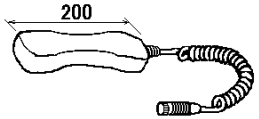
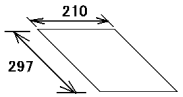
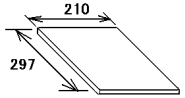
| MFR'S NAME | FURUNO ELECTRIC CO.,LTD. | DWG NO. | 05EC-X-9301 | 1/1 |
|---|---|---|---|---|

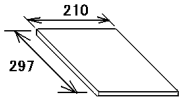
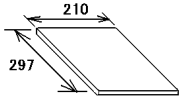
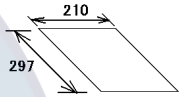
(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

# PACKING LIST

RC-8800S/D-N-75BG、RC-8800S/D-A-75BG

05EC-X-9861-0 1/1

| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| **ユニット UNIT** | | | |
| VHFｺﾝｿｰﾙ<br>VHF CONSOLE |  | RC-8800S/D-N-75BG,RC-8800S/D-A-75BG<br>000-054-240 ** | 1 |
| **予備品 SPARE PARTS** | | | |
| 予備品<br>SPARE PARTS |  | SP05-05501<br>005-377-820 | 1 |
| **付属品 ACCESSORIES** | | **FP05-05800** | |
| ﾊﾝﾄﾞｾｯﾄﾊﾝｶﾞｰ組品<br>BRACKET FOR HANDSET |  | FP05-05510<br>005-951-790 | 1 |
| ﾊﾝﾄﾞｾｯﾄ<br>HANDSET |  | HS-2003<br>000-054-223 | 1 |
| **工事材料 INSTALLATION MATERIALS** | | | |
| 工事材料<br>INSTALLATION MATERIALS |  | CP05-10201<br>005-371-850 | 1 |
| **図書 DOCUMENT** | | | |
| 遭難警報ﾌﾛVHFMF*<br>VHF/MF DISTRESS ALERT FLOW |  | *52-00101-*<br>000-809-270 ** | 1 |
| 装備要領書<br>INSTALLATION MANUAL |  | IM*-56420-*<br>000-149-932 ** | 1 |

| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| 取扱説明書<br>OPERATOR'S MANUAL |  | OM*-56420-*<br>000-149-930 ** | 1 |
| 操作要領書<br>OPERATOR'S GUIDE |  | OS*-56420-*<br>000-149-934 ** | 1 |
| 遭難通信要領書<br>DISTRESS PROCEDURE |  | TIC-56420-*<br>000-149-935 | 1 |

ｺｰﾄﾞ番号末尾の[**]は、選択品の代表ｺｰﾄﾞを表します。
CODE NUMBER ENDING WITH "**" INDICATES THE CODE NUMBER OF REPRESENTATIVE MATERIAL.

（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）



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FURUNO

| | | |
|---|---|---|
| CODE NO. | 005-371-850 | 05EC-X-9409 -0 |
| TYPE | CP05-10201 | 1/1 |

# 工事材料表

INSTALLATION MATERIALS

| 番号 NO. | 名称 NAME | 略図 OUTLINE | 型名／規格 DESCRIPTIONS | 数量 Q'TY | 用途／備考 REMARKS |
|---|---|---|---|---|---|
| 1 | ﾐﾆﾋﾟﾝ組品(1)<br>CABLE ASSY. |  | L-420<br>CODE NO. 000-151-748 | 1 | Used only Japan |

05EC-X-9409

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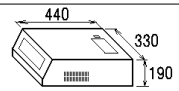
(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)



# PACKING LIST

05EC-X-9860 -0 1/1

## RC-8800-N/RC-8800-A

| NAME | OUTLINE | DESCRIPTION/CODE № | Q'TY |
|---|---|---|---|
| **ユニット UNIT** | | | |
| ｺﾝｿｰﾙ組品<br>CONSOLE KIT |  | RC-8800-N<br>005-371-650 ** | 1 |
| **工事材料 INSTALLATION MATERIALS** | | | |
| 工事材料<br>INSTALLATION MATERIALS |  | CP05-10001<br>005-371-670 | 1 |

ｺｰﾄﾞ番号末尾の[**]は、選択品の代表ｺｰﾄﾞを表します。
CODE NUMBER ENDING WITH "**" INDICATES THE CODE NUMBER OF REPRESENTATIVE MATERIAL.

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

05EC-X-9860

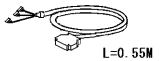
www.reelschematic.com

FURUNO

| CODE NO. | 005-371-670 | 05EC-X-9408 -1 |
|---|---|---|
| TYPE | CP05-10001 | 1/1 |

# 工事材料表

INSTALLATION MATERIALS

| 番号 NO. | 名称 NAME | 略図 OUTLINE | 型名／規格 DESCRIPTIONS | 数量 Q'TY | 用途／備考 REMARKS |
|---|---|---|---|---|---|
| 1 | ｹｰﾌﾞﾙ組品<br>CABLE ASSY. |  | DSUB37M-PHX3-L550<br>CODE NO. 000-153-297 | 1 | |
| 2 | ﾐﾆﾋﾟﾝ組品(1)<br>CABLE ASSY. |  | L-420<br>CODE NO. 000-151-748 | 1 | |

05EC-X-9408

FURUNO ELECTRIC CO., LTD.

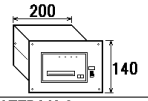
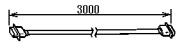
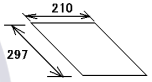
**（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）**



# PACKING LIST

05EC-X-9862 -2 1/1

## PP-8800

| NAME | OUTLINE | DESCRIPTION/CODE No. | Q'TY |
|---|---|---|---|
| **ユニット UNIT** | | | |
| ﾌﾟﾘﾝﾀ<br>PRINTER UNIT |  | PP-8800<br>000-054-127-00 | 1 |
| **工事材料 INSTALLATION MATERIALS** | | **CP05-10100** | |
| ｹｰﾌﾞﾙ組品<br>CABLE ASSY. |  | 17JE-23250-02<br>000-138-539-00 | 1 |
| 電源ｹｰﾌﾞﾙDC用<br>POWER CABLE (FOR DC MAINS) |  | VCTF0.75X2C *3M*<br>000-112-543-00 | 1 |
| **図書 DOCUMENT** | | | |
| 外寸図（和英）<br>OUTLINE DRAWING (JP/EN) |  | C5642-G15-*<br>000-151-762-00 | 1 |

型式/ｺｰﾄﾞ番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。

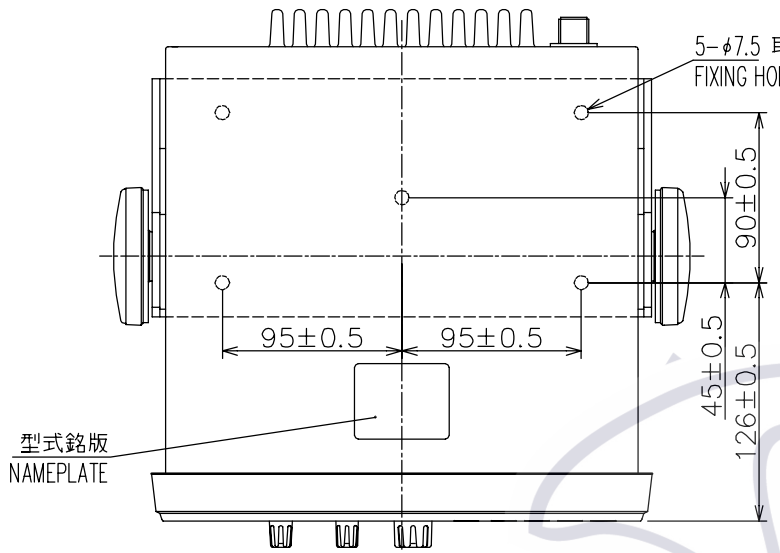
TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME.

（略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.）

05EC-X-9862

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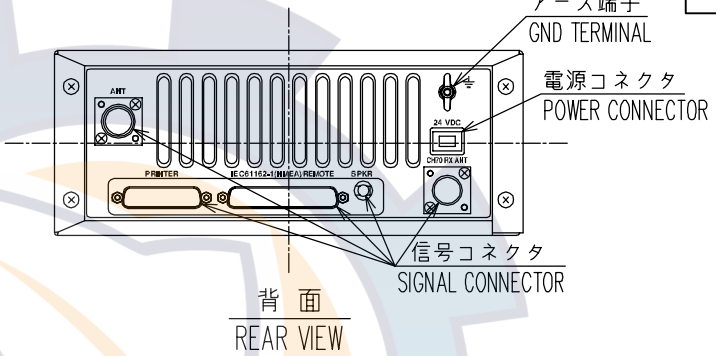
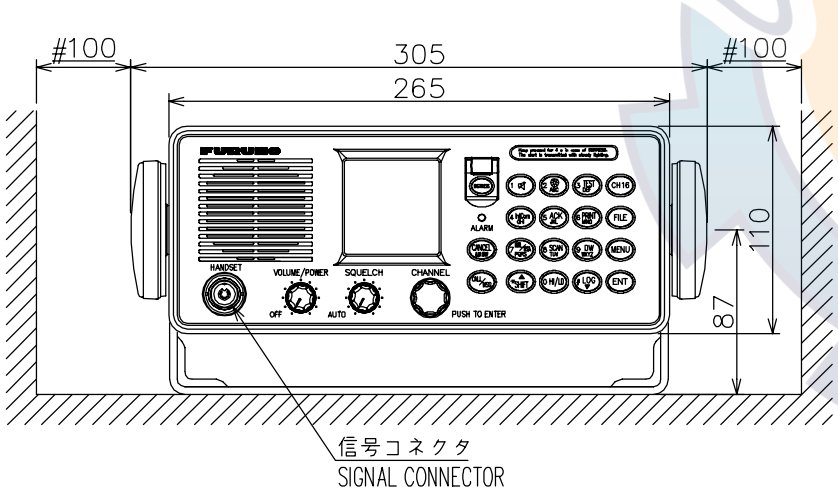



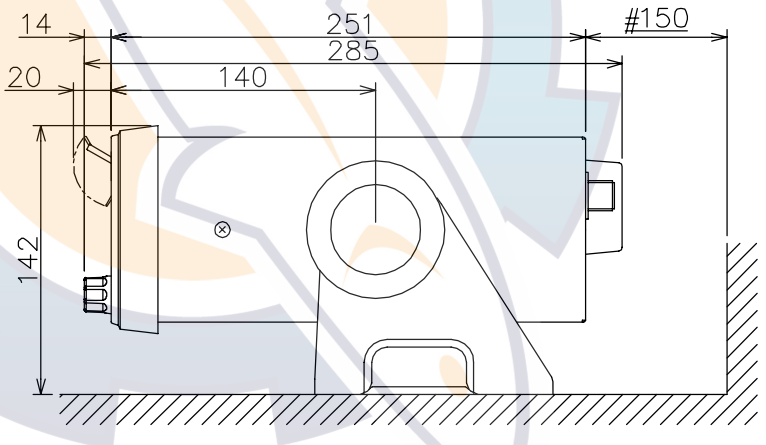

表1 TABLE 1

| 寸法区分（mm） DIMENSIONS | 公差（mm） TORELANCE |
|---|---|
| L≦50 | ±1.5 |
| 50<L≦100 | ±2.5 |
| 100<L≦500 | ±3 |

表2 TABLE 2

| 機種名 MODEL | 質量(kg±10%) MASS |
|---|---|
| FM-8800S | 5.5 |
| FM-8800D | 6.4 |




注 記 1）＃印寸法は最小サービス空間寸法とする。
2）指定外の寸法公差は表1による。
3）取付用ネジは＋トラスタッピンネジ6x20を使用のこと。

NOTE 1. #: MINIMUM SERVICE CLEARANCE.
2. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
3. USE SELF-TAPPING SCREWS 6x20 FOR FIXING THE UNIT.

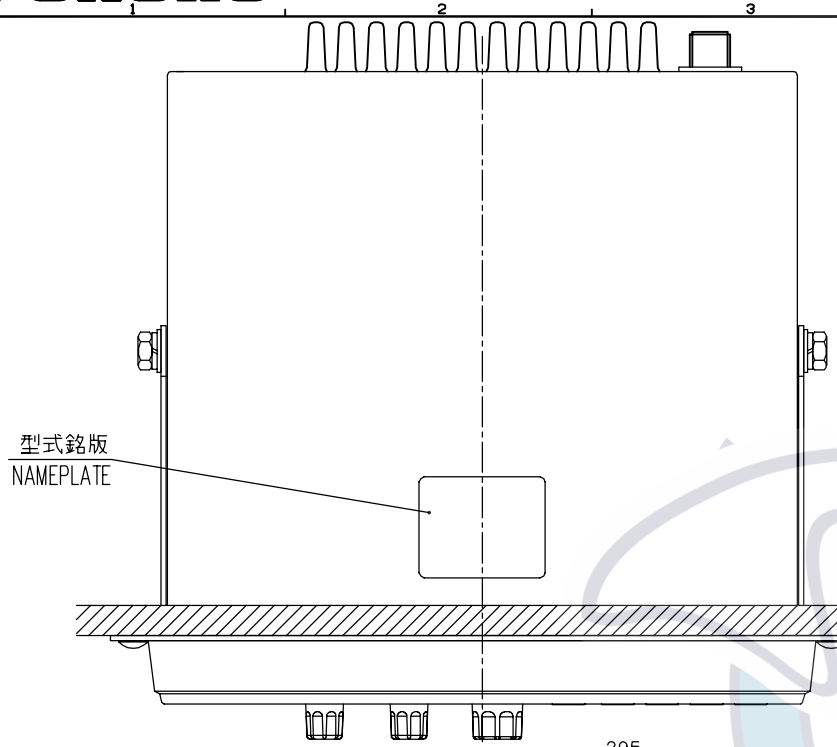
| | | | |
|---|---|---|---|
| DRAWN Sep. 22, '04 E. MIYOSHI | | | TITLE FM-8800S/D |
| CHECKED T. TAKAHASHI | | | 名称 送受信機（卓上装備） |
| APPROVED Y. Hatai | FM-8800S/D | | 外寸図 |
| SCALE 1/4 MASS 表2参照 TABLE 2 | | | NAME TRANSCEIVER UNIT (TABLETOP MOUNT) |
| DWG.No. C5642-G01- A | 05-093-100G-4 | | OUTLINE DRAWING |

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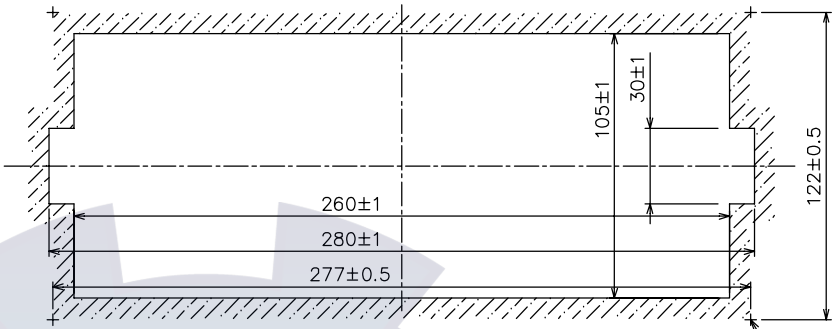



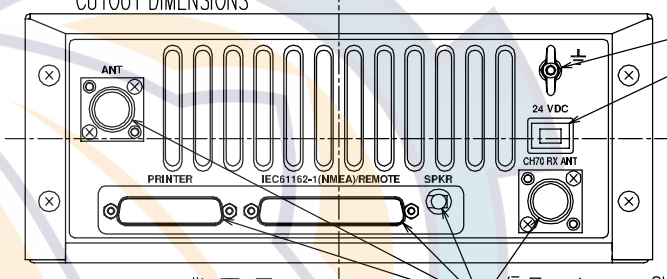

表1 TABLE 1

| 寸法区分(mm) DIMENSIONS | 公差(mm) TOLERANCE |
|---|---|
| L≦50 | ±1.5 |
| 50<L≦100 | ±2.5 |
| 100<L≦500 | ±3 |

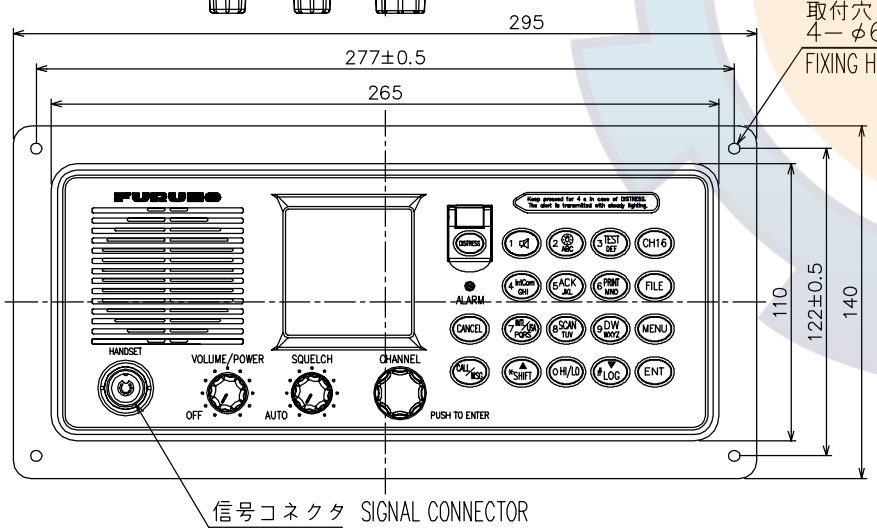
表2 TABLE 2

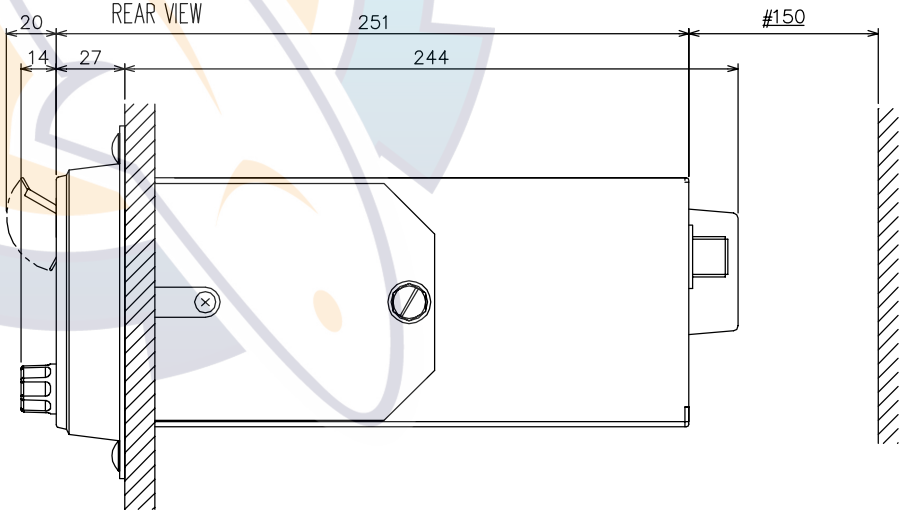
| 機種名 MODEL | 質量(kg±10%) MASS |
|---|---|
| FM-8800S | 5.5 |
| FM-8800D | 6.4 |

取付穴寸法図(参考図)
CUTOUT DIMENSIONS




背面図
REAR VIEW




注 記 1) #印寸法は最小サービス空間寸法とする。
2) 指定外の寸法公差は表1による。
3) 取付用ネジは+トラスタッピンネジ5x20を使用のこと。

NOTE 1) #: MINIMUM SERVICE CLEARANCE.
2) TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
3) USE SELF-TAPPING SCREWS 5x20 FOR FIXING THE UNIT.

| | | | |
|---|---|---|---|
| DRAWN | Sep. 22, '04 E. MIYOSHI | | TITLE FM-8800S/D |
| CHECKED | TAKAHASHI. T | | 名称 送受信機(埋込装備F) |
| APPROVED | Y. Hatai | FM-8800S/D | 外寸図 |
| SCALE | 1/3 MASS 表2参照 TABLE 2 | | NAME TRANSCEIVER UNIT (FLUSH MOUNT F) |
| DWG.No. | C5642-G06- A | 05-093-120G-4 | OUTLINE DRAWING |

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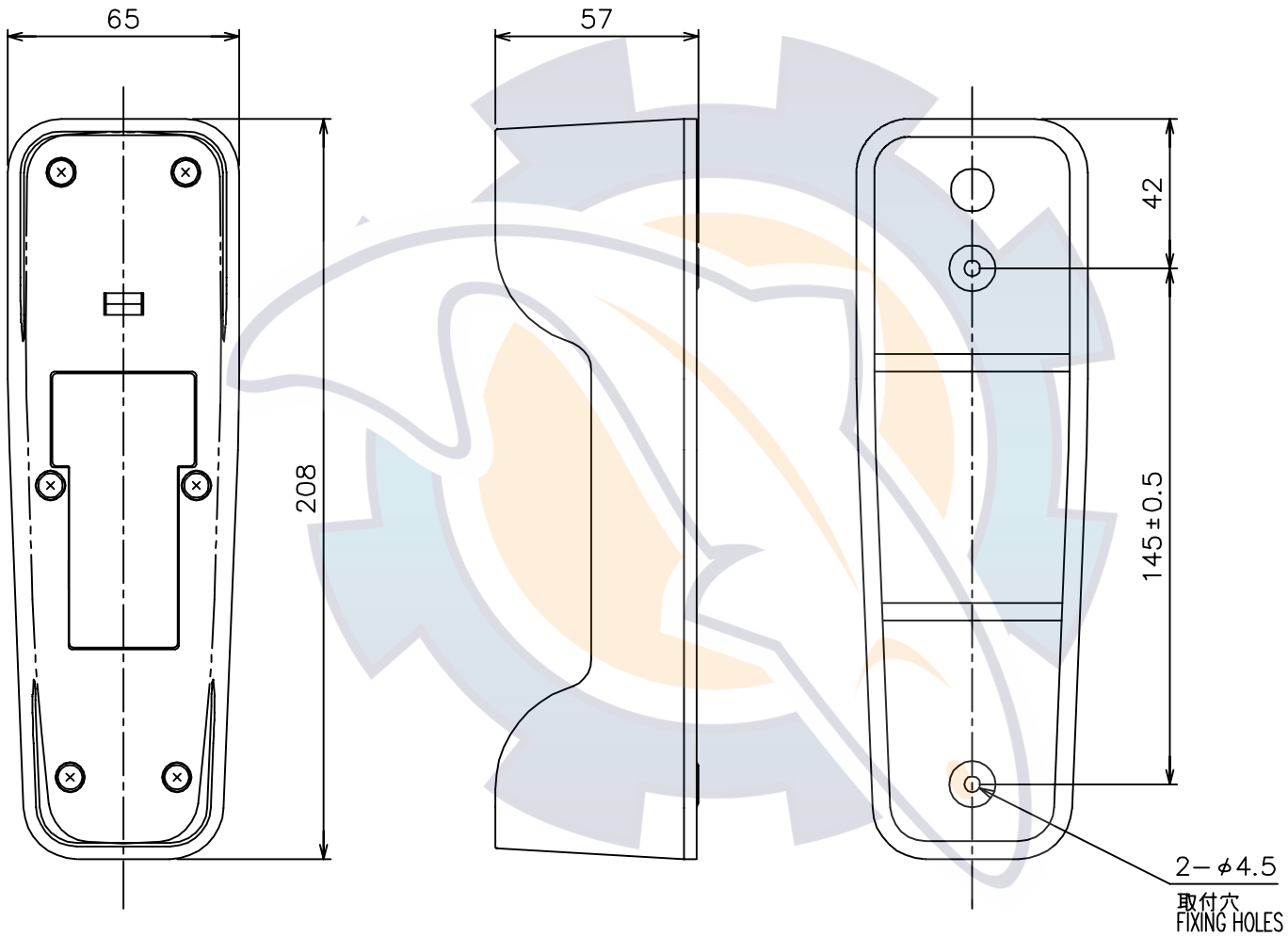
D-2

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表 1 TABLE 1

| 寸法区分（mm） DIMENSIONS | 公差（mm） TOLERANCE |
|---|---|
| L≦50 | ±1.5 |
| 50<L≦100 | ±2.5 |
| 100<L≦500 | ±3 |




注 記 1） 指定外の寸法公差は表 1 による。
2） 取付用ネジは＋トラスタッピンネジ４x16を使用のこと。

NOTE 1. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
2. USE SELF-TAPPING SCREWS 4x16 FOR FIXING THE UNIT.

| | | | |
|---|---|---|---|
| DRAWN Dec. 10, '04 E. MIYOSHI | | TITLE | FP05-05510 |
| CHECKED TAKAHASHI. T | | 名称 | ハンドセットハンガー |
| APPROVED Y. Hatai | FM-8800S/D FS-1570 | | 外寸図 |
| SCALE 1/2 MASS 0.30 ±10% kg | | NAME | HANDSET HANGER |
| DWG.No. C5636-G08- B | 05-089-401G-2 | | OUTLINE DRAWING |

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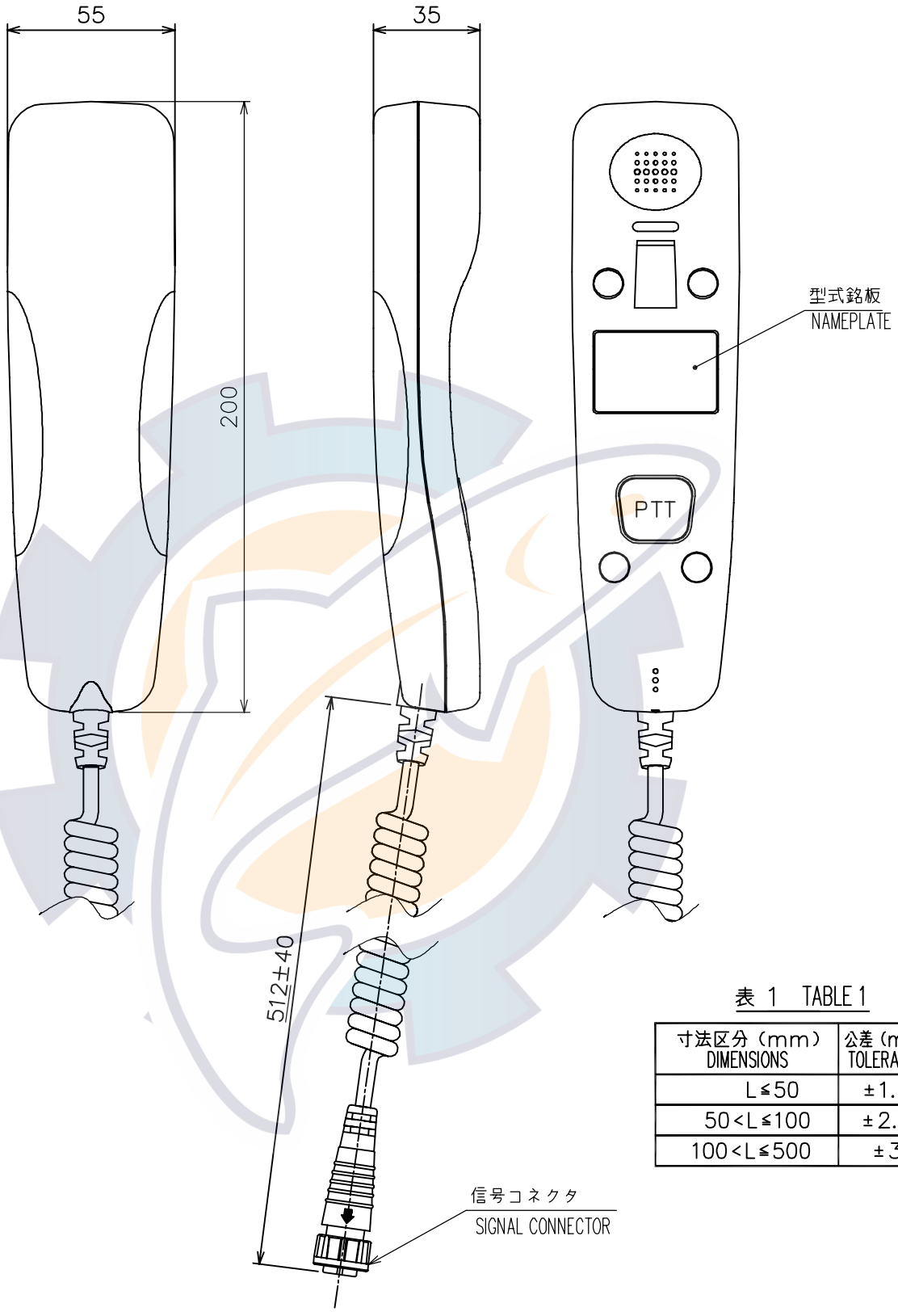



表 1 TABLE 1

| 寸法区分 (mm) DIMENSIONS | 公差 (mm) TOLERANCE |
|---|---|
| L≦50 | ±1.5 |
| 50<L≦100 | ±2.5 |
| 100<L≦500 | ±3 |

注 記 指定外の寸法公差は表 1 による。

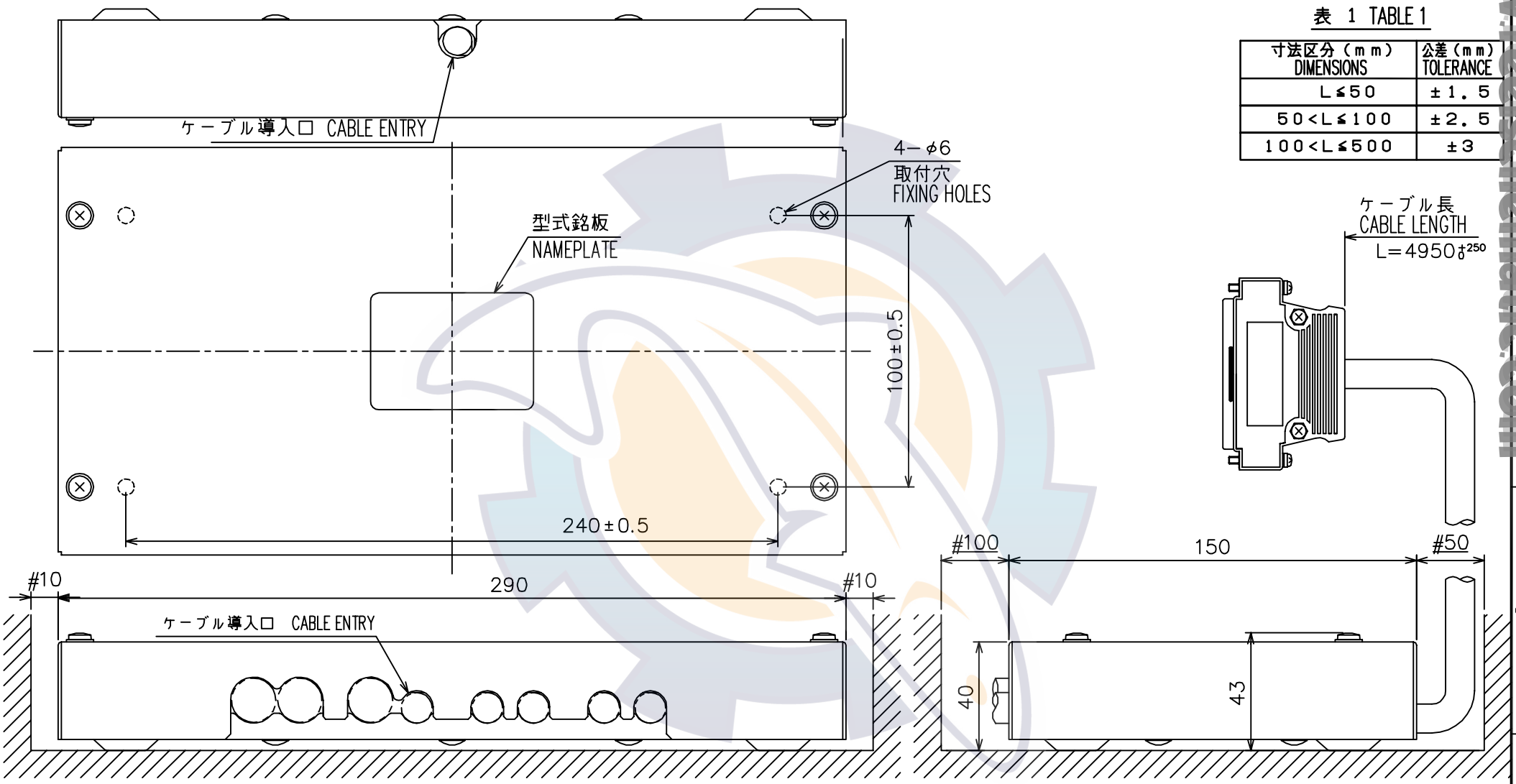
NOTE TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.

| | | | |
|---|---|---|---|
| DRAWN Dec. 10 '04 E. MIYOSHI | | TITLE | HS-2003 |
| CHECKED TAKAHASHI. T | FM-8800S/D | 名称 | ハンドセット |
| APPROVED Y. Hatai | 質量にはケーブルコードを含む。 MASS W/ CABLE. | | 外寸図 |
| SCALE 1/2 MASS 0.20 ±10% kg | | NAME | HANDSET |
| DWG.No. C5642-G10-C | 05-093-200G-2 | | OUTLINE DRAWING |

FURUNO

表 1 TABLE 1

| 寸法区分（mm） DIMENSIONS | 公差（mm） TOLERANCE |
|---|---|
| L≦50 | ±1.5 |
| 50<L≦100 | ±2.5 |
| 100<L≦500 | ±3 |




注 記 1） #印寸法は最小サービス空間寸法とする。
2） 指定外の寸法公差は表1による。
3） 取付用ネジは＋トラスタッピンネジ呼び径5×20を使用のこと。

NOTE 1. #: MINIMUM SERVICE CLEARANCE.
2. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
3. USE SELF-TAPPING SCREWS 5x20 FOR FIXING THE UNIT.

| | | | |
|---|---|---|---|
| DRAWN Sep. 3, '04 E.MIYOSHI | | TITLE | IF-8810 |
| CHECKED TAKAHASHI. T | | 名称 | 接続箱 |
| APPROVED Y. Hatai | FM-8800S/D | | 外寸図 |
| SCALE 1/2 MASS 2.5 ±10% kg | | NAME | JUNCTION BOX |
| DWG.No. C5642-G03-C | 05-093-4006-1 | | OUTLINE DRAWING |

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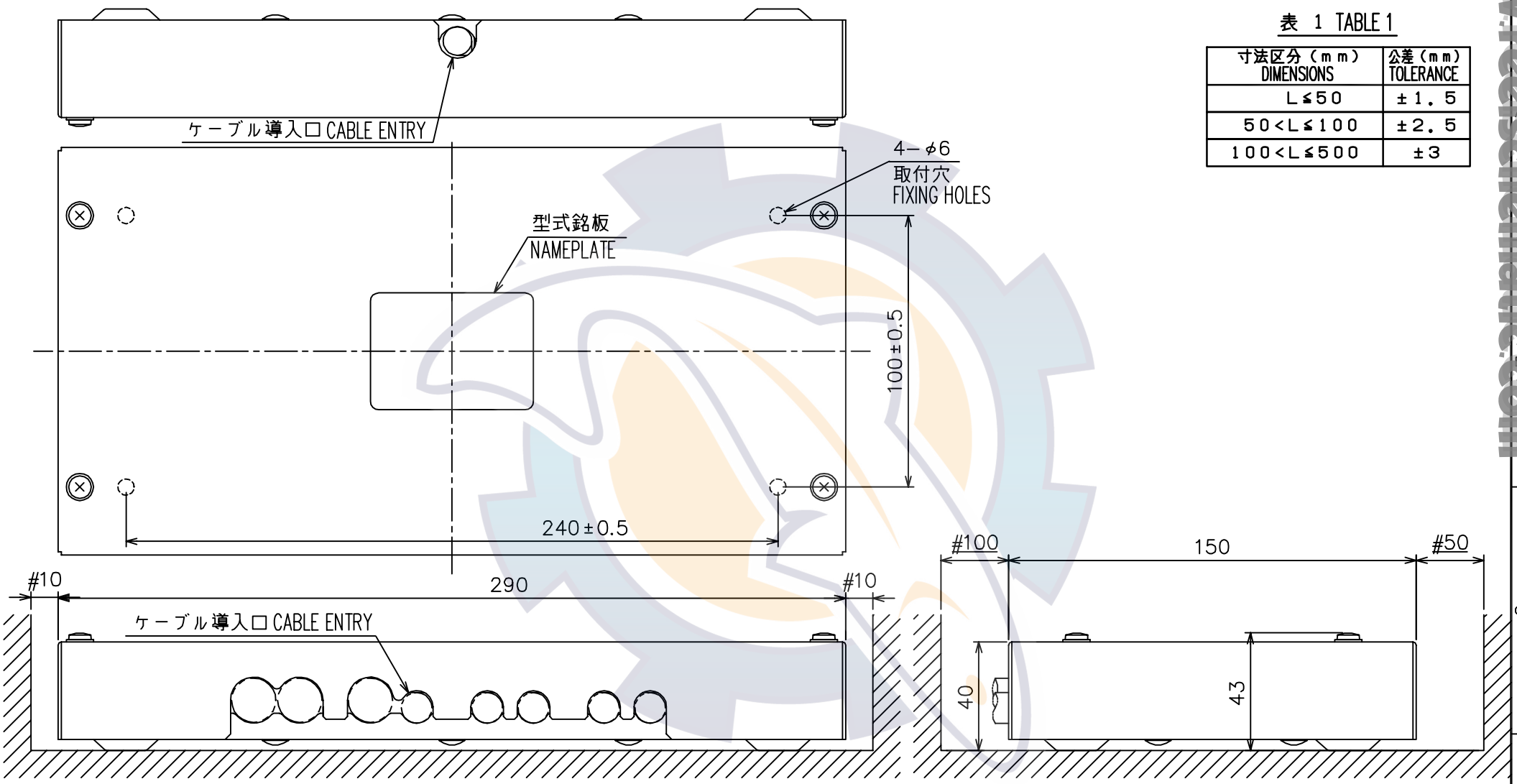
D-5

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表 1 TABLE 1

| 寸法区分（mm） DIMENSIONS | 公差（mm） TOLERANCE |
|---|---|
| L≦50 | ±1.5 |
| 50<L≦100 | ±2.5 |
| 100<L≦500 | ±3 |




注　記　1）＃印寸法は最小サービス空間寸法とする。
　　2）指定外の寸法公差は表１による。
　　3）取付用ネジは＋トラスタッピンネジ呼び径５ｘ２０を使用のこと。

NOTE　1.　#: MINIMUM SERVICE CLEARANCE.
　　2.　TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
　　3.　USE SELF-TAPPING SCREWS 5x20 FOR FIXING THE UNIT.

| | | | |
|---|---|---|---|
| DRAWN | Sep. 22, '04 E.MIYOSHI | | TITLE IF-8820 |
| CHECKED | TAKAHASHI. T | | 名称 DMCインターフェイス |
| APPROVED | Y. Hatai | FM-8800S/D | 外寸図 |
| SCALE | 1/2 MASS 1.5 ±10% kg | | NAME DMC INTERFACE UNIT |
| DWG.No. | C5642-G04- C | 05-093-5006-2 | OUTLINE DRAWING |

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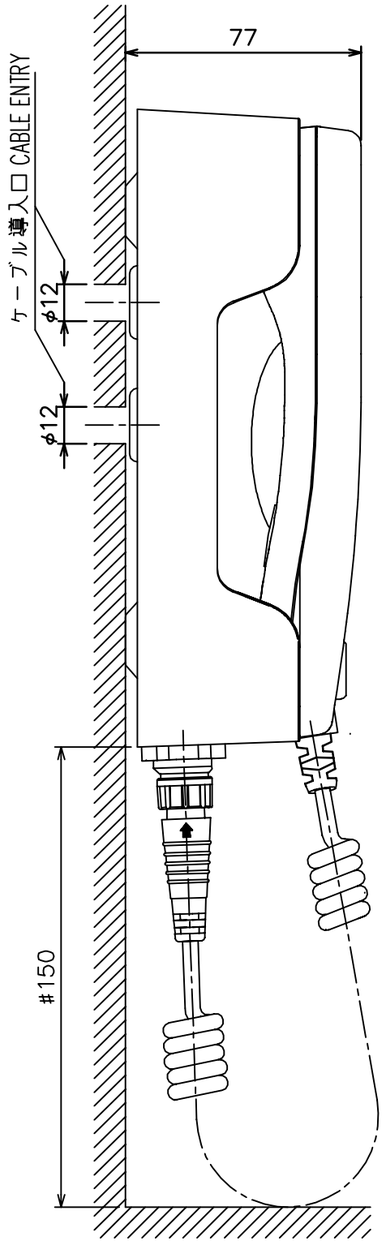
www.reelschematic.com

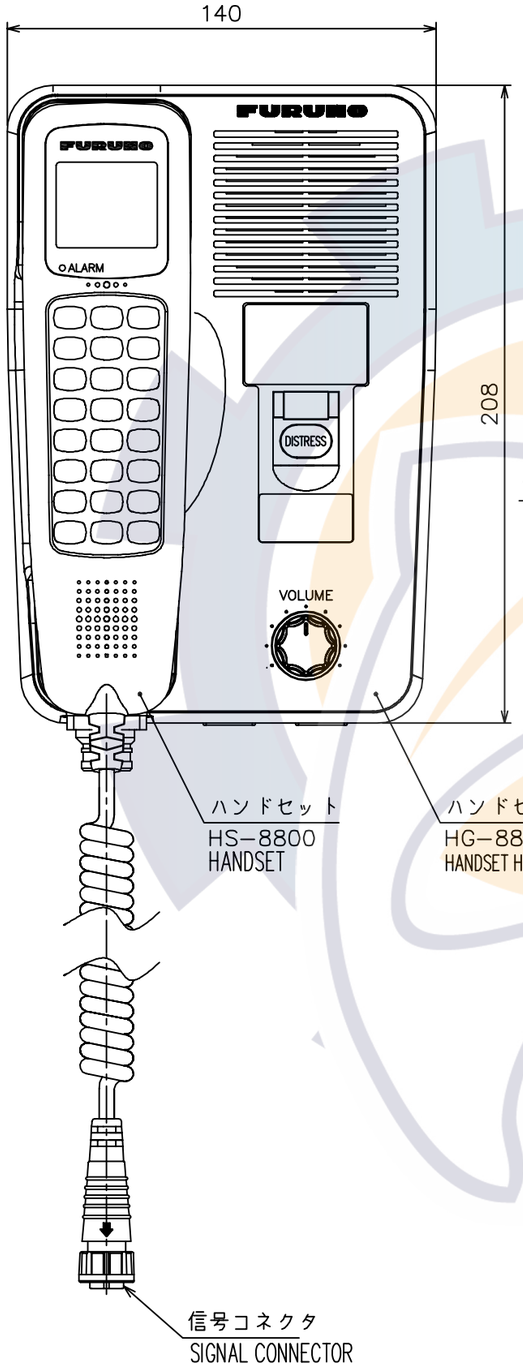
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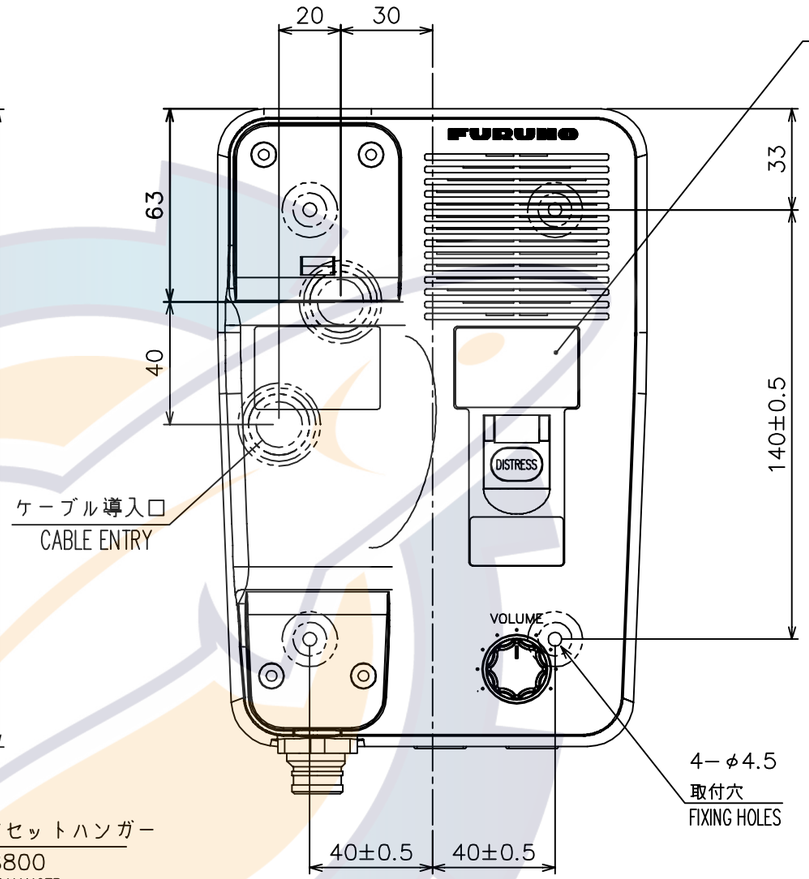
www.reelschematic.com

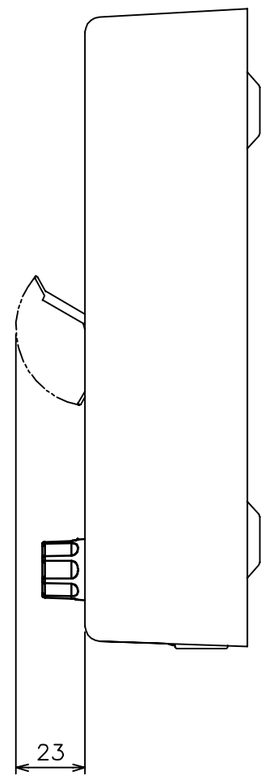
FURUNO

D-7



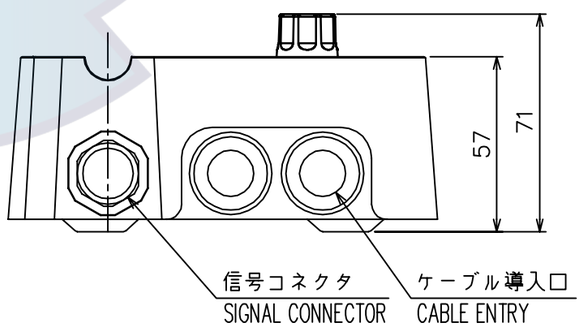




表 1 TABLE 1

| 寸法区分（mm） DIMENSIONS | 公差（mm） TOLERANCE |
|---|---|
| L≦50 | ±1.5 |
| 50<L≦100 | ±2.5 |
| 100<L≦500 | ±3 |

注 記 1）指定外の寸法公差は表1による。
2）#印寸法は最小サービス空間寸法とする。
3）取付用ネジは＋トラスタッピンネジ呼び径4x20を使用のこと。

NOTE 1. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
2. #: MINIMUM SERVICE CLEARANCE.
3. USE SELF-TAPPING SCREWS 4x20 FOR FIXING THE UNIT.

| | | | |
|---|---|---|---|
| DRAWN Dec. 6, '04 E. MIYOSHI | | TITLE | RB-8800 |
| CHECKED TAKAHASHI. T | | 名称 | リモートステーション |
| APPROVED Y. Hatai | FM-8800S/D | | 外寸図 |
| SCALE 1/2 MASS 1.1 ±10% kg | 質量はハンドセット・ハンガーを含む。 MASS W/ HANDSET AND HANGER | NAME | REMOTE STATION |
| DWG.No. C5642-G02- A | 05-093-3006-3 | | OUTLINE DRAWING |

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FURUNO

D-8

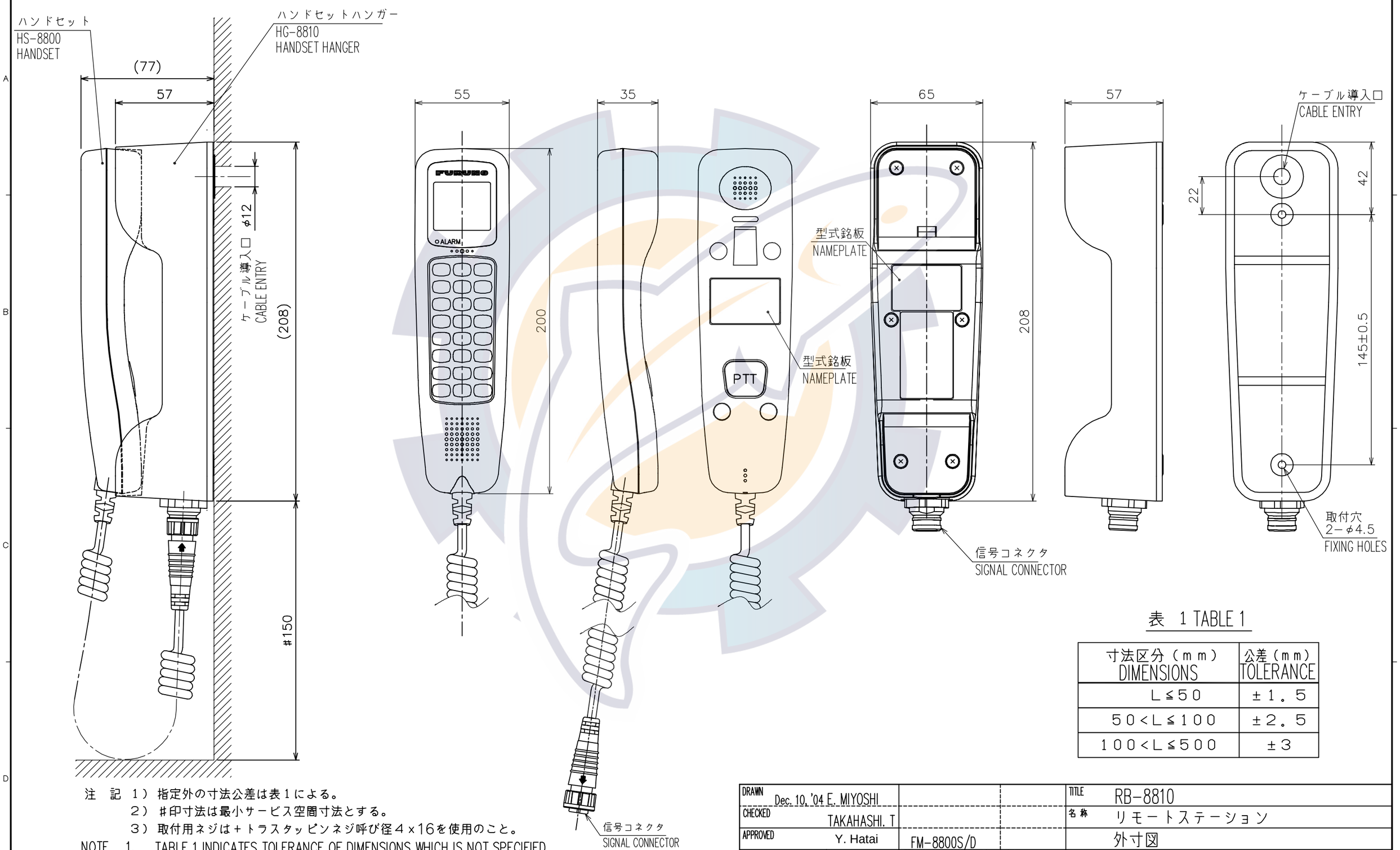



表 1 TABLE 1

| 寸法区分（ｍｍ） DIMENSIONS | 公差（ｍｍ） TOLERANCE |
|---|---|
| Ｌ≦５０ | ±１．５ |
| ５０＜Ｌ≦１００ | ±２．５ |
| １００＜Ｌ≦５００ | ±３ |

注 記 1）指定外の寸法公差は表１による。
2）＃印寸法は最小サービス空間寸法とする。
3）取付用ネジは＋トラスタッピンネジ呼び径４×16を使用のこと。

NOTE 1. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
2. #: MINIMUM SERVICE CLEARANCE.
3. USE SELF-TAPPING SCREWS 4x16 FOR FIXING THE UNIT.

| | | | |
|---|---|---|---|
| DRAWN Dec. 10, '04 E. MIYOSHI | | | TITLE RB-8810 |
| CHECKED TAKAHASHI. T | | | 名称 リモートステーション |
| APPROVED Y. Hatai | | FM-8800S/D | 外寸図 |
| SCALE 1/2 | MASS 0.7 ±10% kg | 質量はﾊﾝﾄﾞｾｯﾄ・ﾊﾝｶﾞｰを含む。 MASS W/ HANDSET AND HANGER | NAME REMOTE STATION |
| DWG.No. C5642-G09- A | | 05-093-310G-2 | OUTLINE DRAWING |

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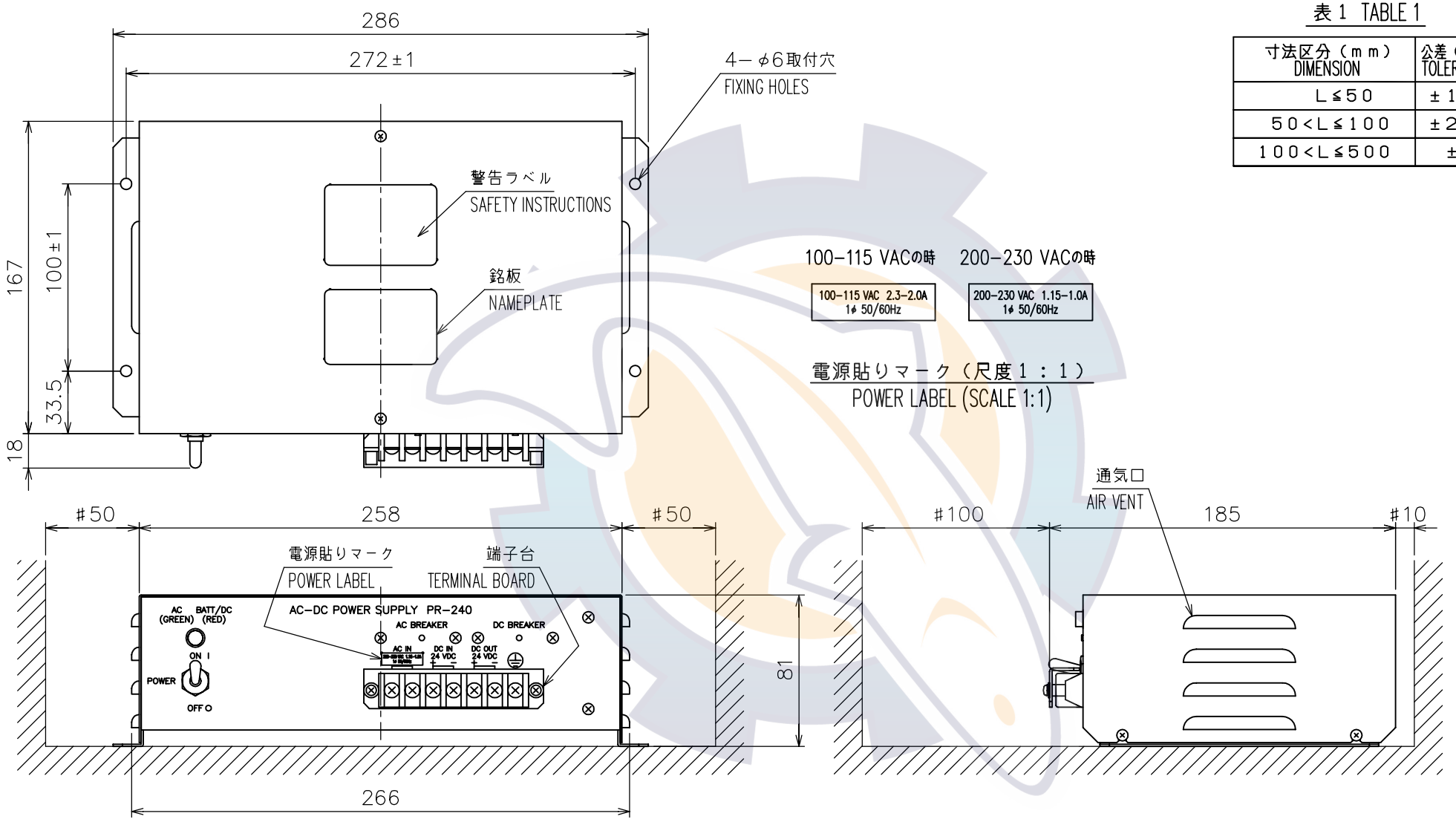



表１ TABLE 1

| 寸法区分（ｍｍ） DIMENSION | 公差（ｍｍ） TOLERANCE |
|---|---|
| Ｌ≦５０ | ±１．５ |
| ５０<Ｌ≦１００ | ±２．５ |
| １００<Ｌ≦５００ | ±３ |

注　記　１）指定なき寸法公差は表１による。
２）#印寸法は推奨する最小サービス空間寸法とする。
３）取付用ネジは＋トラスタッピンネジ 呼び径４ｘ１６を使用のこと。

NOTE
1. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
2. #: MINIMUM SERVICE CLEARANCE.
3. USE TAPPING SCREWS 4x16 FOR FIXING THE UNIT.

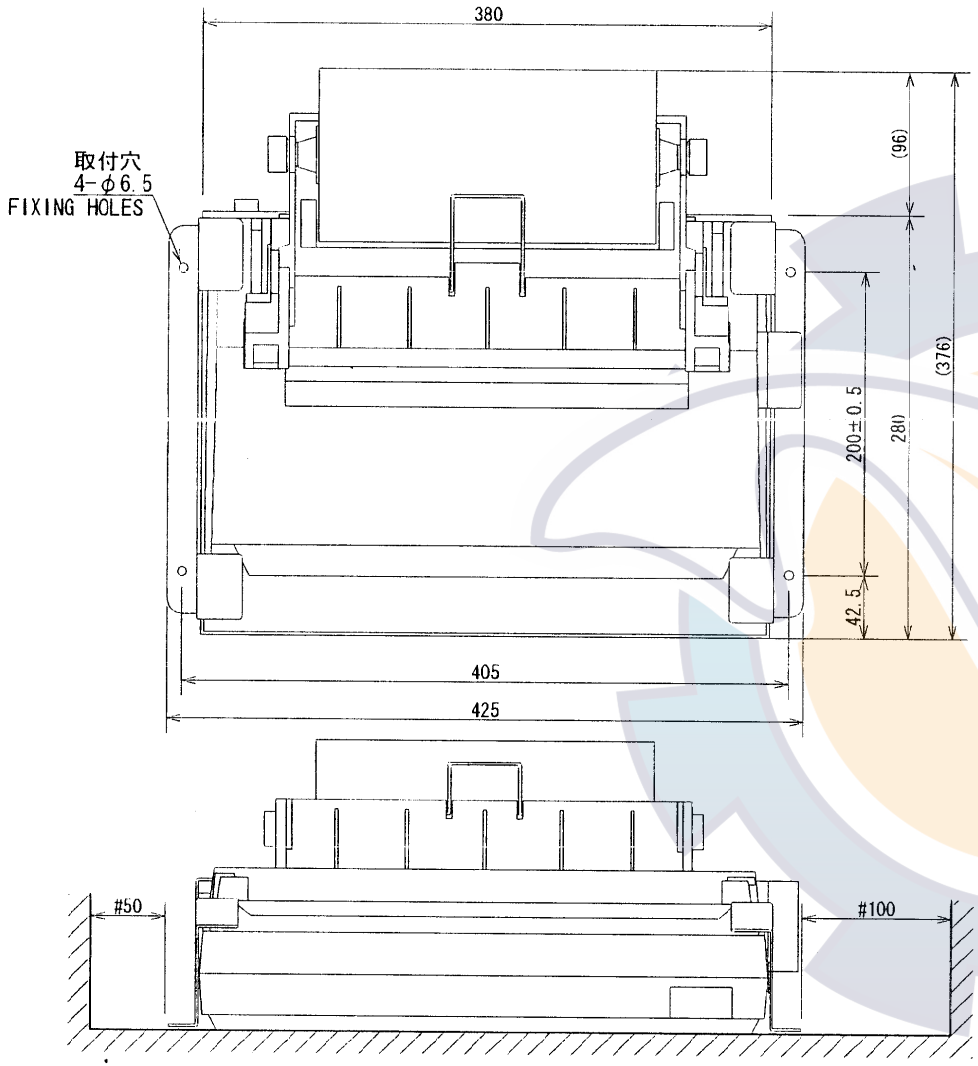
| | | | |
|---|---|---|---|
| DRAWN Mar. 3 '04 T.YAMASAKI | | TITLE | PR−240−CE |
| CHECKED Mar. 3 '04 T.TAKENO | | 名称 | AC／DC電源ユニット |
| APPROVED Mar.11'04 H.Hayashi | | | 外寸図 |
| SCALE 1/3 | MASS 2.8 ±10% kg | NAME | AC/DC POWER SUPPLY UNIT |
| DWG No. C5003−G03− F | 24−003−500G−3 | | OUTLINE DRAWING |

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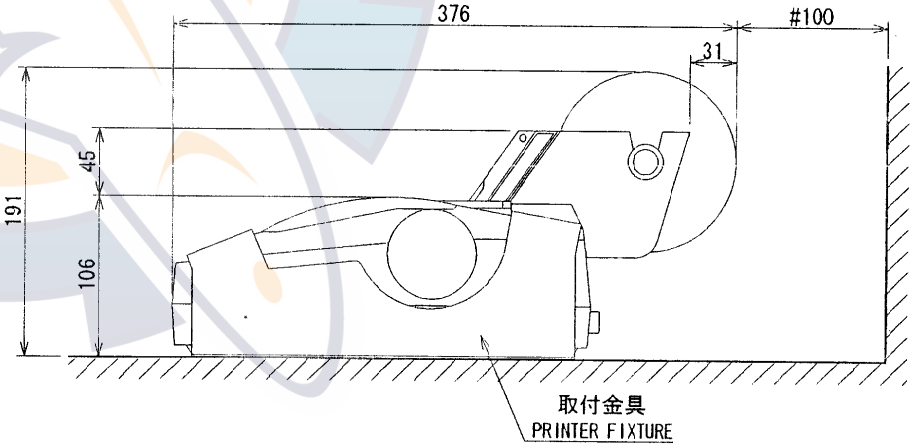
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| 寸法区分 (mm) DIMENSION | 公差 (mm) TOLERANCE |
|---|---|
| 0 ＜ L ≦ 50 | ±1．5 |
| 50 ＜ L ≦ 100 | ±2．5 |
| 100 ＜ L ≦ 500 | ±3 |

表 1
TABLE 1




注　記　1）＃印寸法は最小サービス空間寸法とする。
2）指定外の寸法公差は表１による。
3）取付用ネジはＭ６ボルトまたはコーチボルト呼び径６を使用のこと。

NOTE　1. #: RECOMMENDED SERVICE CLEARANCE.
2. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS.
3. USE M6 BOLTS OR COACH BOLTS φ6 FOR FIXING UNIT.

| | | | |
|---|---|---|---|
| DRAWN July 26'00 T.YAMASAKI | | | TITLE PP-510 |
| CHECKED July 27'00 T.Kimura | | | 名称 プリンタ |
| APPROVED July 27'00 T.Kimura | | | 外寸図 |
| SCALE 1/5 | MASS ±10% 3.8 kg | | NAME PRINTER |
| DWG. No. C5589-G08- H | | 16-007-660G- 2 | OUTLINE DRAWING |

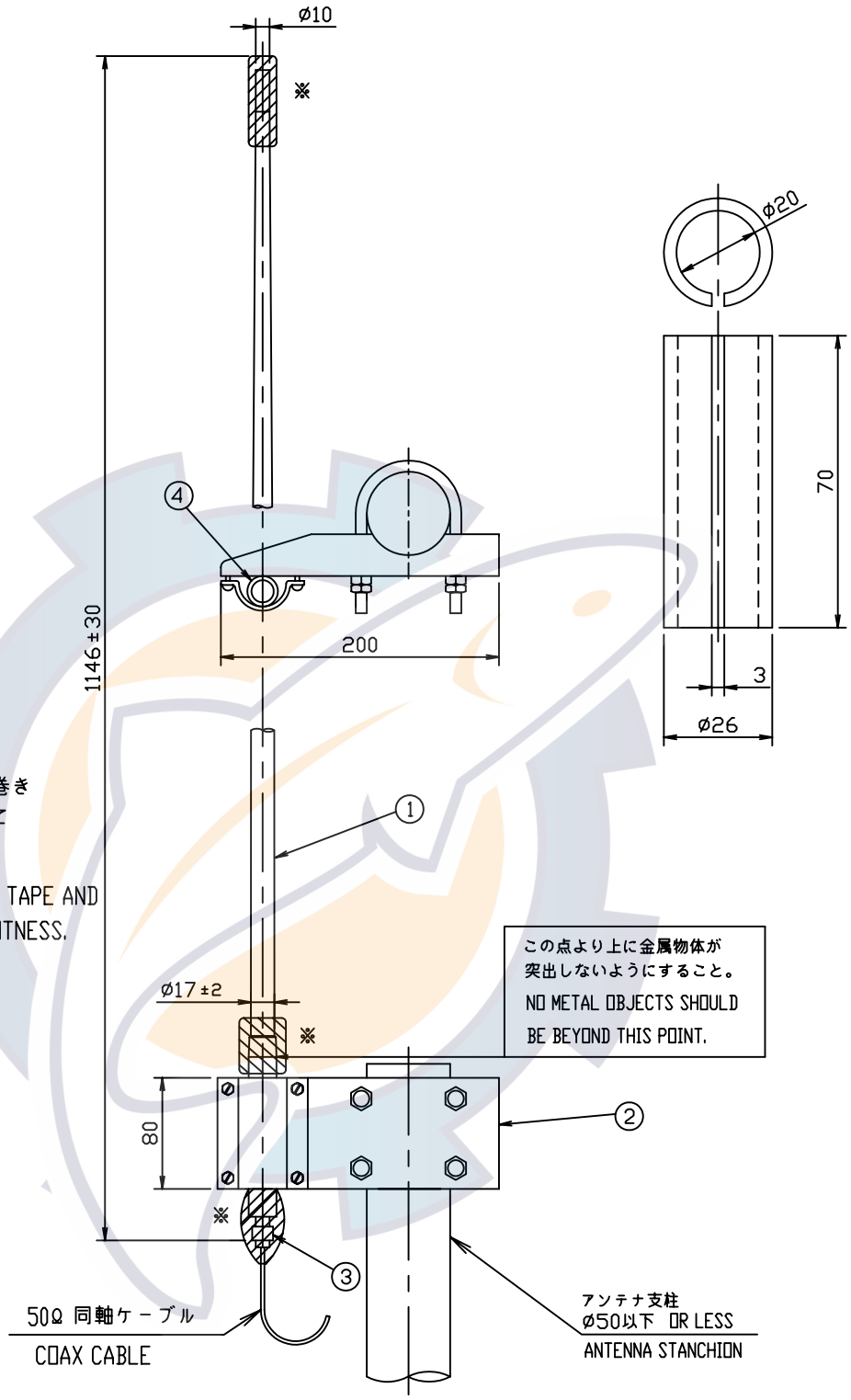
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※ 斜線部は自己融着テープを巻き
更にビニールテープを巻いて
防水処理をおこなうこと。

SEAL WITH SELF-BONDING TAPE AND
PVC TAPE FOR WATERTIGHTNESS.

| ITEM 品番 | NAME 品名 | MATERIAL 材質 | Q'TY 数量 | DWG.No. 図番 | REMARKS 摘要 |
|---|---|---|---|---|---|
| 4 | 固定用パイプ<br>LINER PIPE | 硬質塩ビ<br>VINYL CHLORIDE | 1 | | |
| 3 | 同軸コネクタ<br>COAX. CONNECTOR | | 1 | | M-R |
| 2 | アンテナ取付金具<br>ANTENNA BRACKET | SUS | 1 式<br>SET | 4-310071 | 0.6kg |
| 1 | アンテナ棒<br>ANTENNA ELEMENT | FRP | 1 | | 0.25kg |

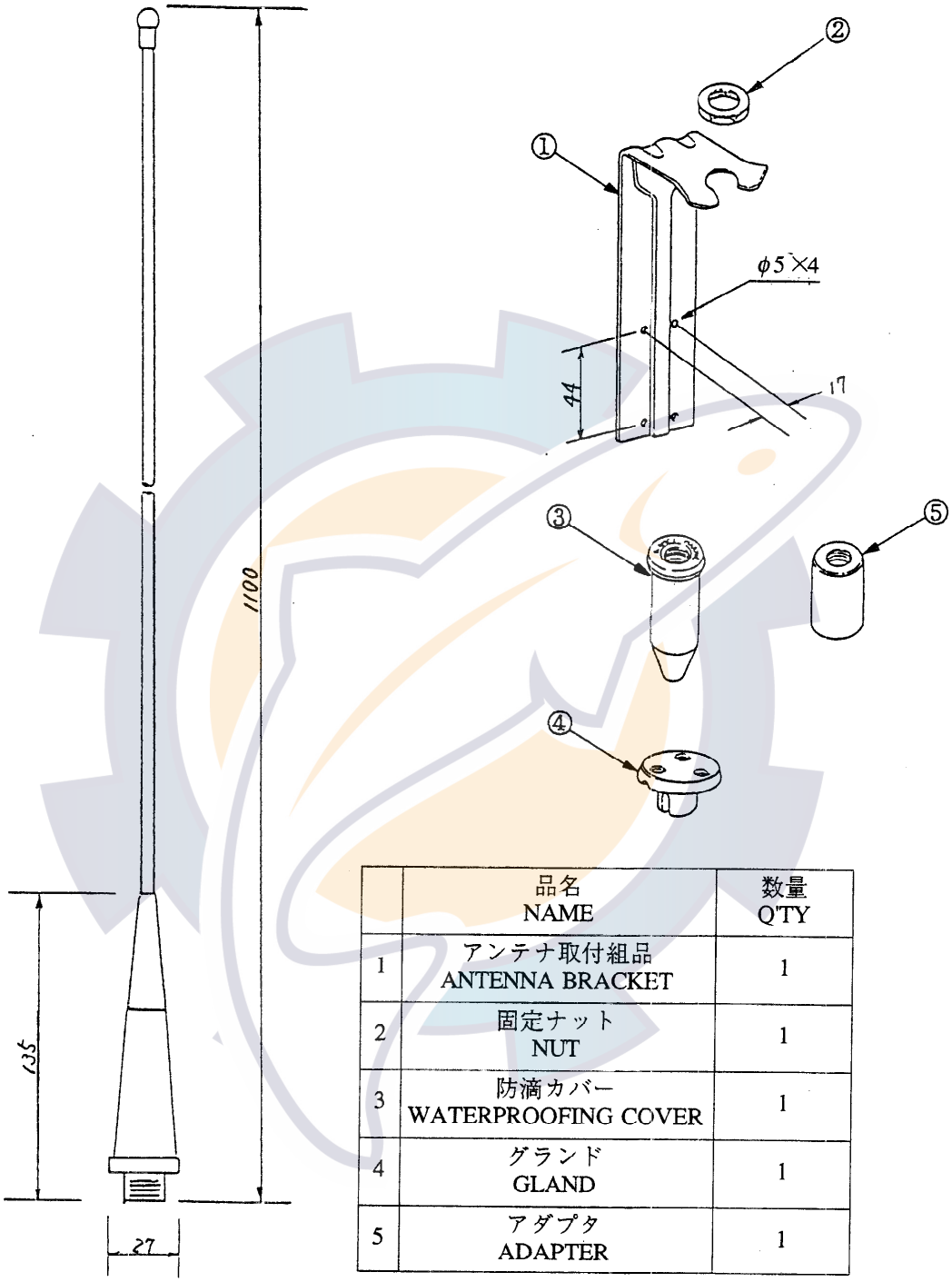
| | | | |
|---|---|---|---|
| DRAWN Feb.1'05 T.YAMASAKI | | TITLE | FAB-151D |
| CHECKED Feb.1'05 T.MATSUGUCHI | | 名称 | 150MHz ホイップアンテナ |
| APPROVED Feb.02'05 T.Matsuguchi | | | 外寸図 |
| SCALE 1/5 | MASS 0.85 ±10% kg | NAME | 150MHz WHIP ANTENNA |
| DWG.No. C5013-019- J | 4-110718 | | OUTLINE DRAWING |

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| | 品名 NAME | 数量 Q'TY |
|---|---|---|
| 1 | アンテナ取付組品 ANTENNA BRACKET | 1 |
| 2 | 固定ナット NUT | 1 |
| 3 | 防滴カバー WATERPROOFING COVER | 1 |
| 4 | グランド GLAND | 1 |
| 5 | アダプタ ADAPTER | 1 |

付属品；M型コネクタ付同軸ケーブル組品(05S9014, 5 m)

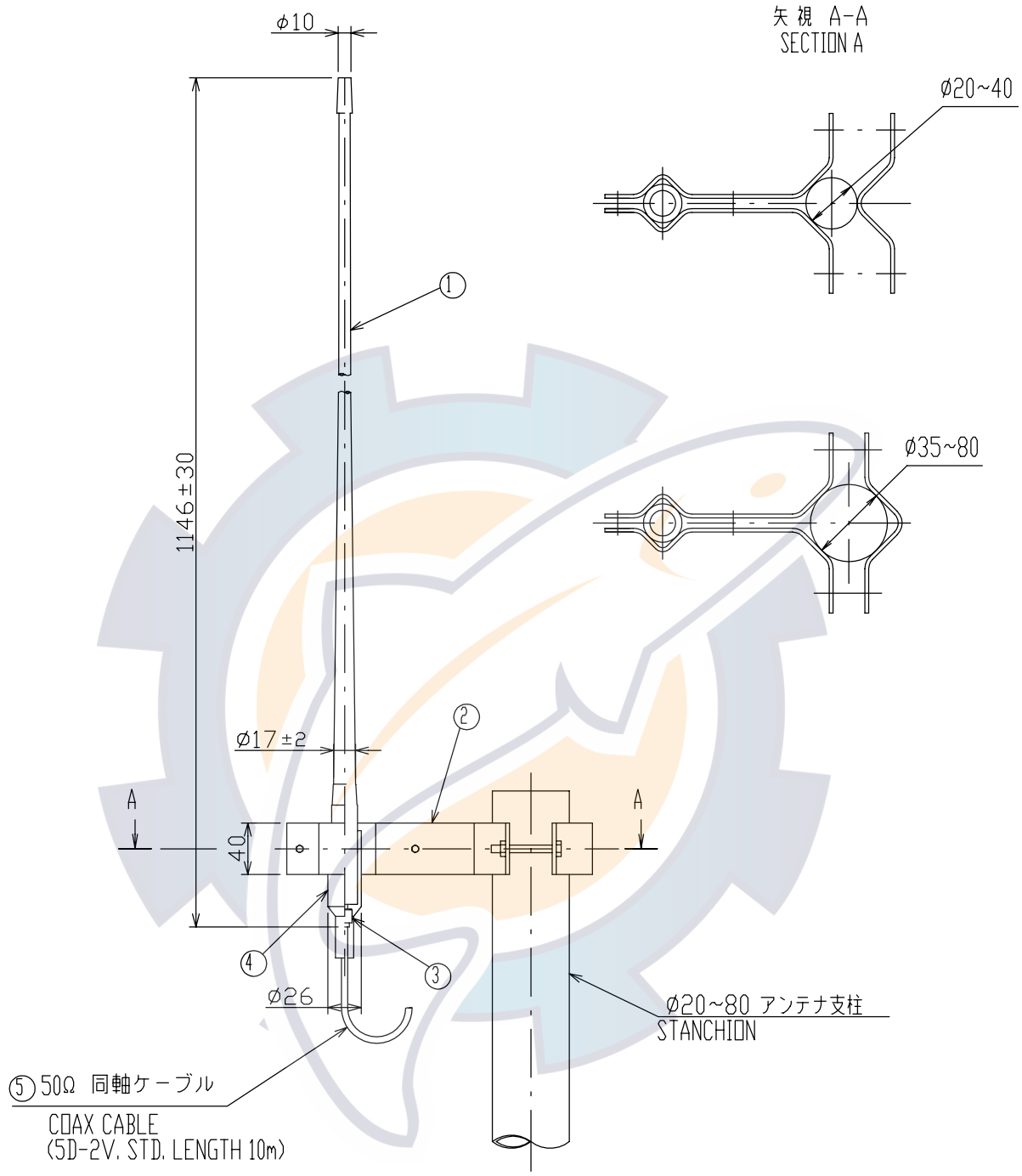
Antenna RA106 comes with a coax cable assembly (05S9014, 5 m) which has an M-type connector attached.

| | | | |
|---|---|---|---|
| DRAWN Nov.13.'95 T.NISHINO | | | TYPE RA106 |
| CHECKED Nov.13'95 K.okamoto | | | 名称 150MHzアンテナ外観図 |
| APPROVED Nov.13'95 K.okamoto | FM-2678 FM-8500 | | 外寸図 |
| SCALE ∝ / MASS — kg | APPLICABLE TO: (MODEL) | BLOCK NO. | NAME VHF MARINE ANTENNA |
| DWG NO. C5603-G02- A | 05-001-4354- 0 | | OUTLINE DRAWING |

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| ITEM | NAME | MATERIAL | Q'TY | DWG.No. | REMARKS |
|---|---|---|---|---|---|
| 5 | 同軸ケーブル<br>50Ω COAX. CABLE | | 10m | 5D-2V | |
| 4 | 塩ビキャップ<br>CONNECTOR CAP | | 1 | | |
| 3 | 同軸コネクタ<br>COAX. CONNECTOR | | 2 | M-P-5 | |
| 2 | アンテナ取付金具<br>ANTENNA BRACKET | | 1 式 SET | | t2 |
| 1 | アンテナ棒<br>ANTENNA ELEMENT | FRP | 1 | 150M-W2VN | 0.25kg |

| | | |
|---|---|---|
| DRAWN Nov. 26 '03 T.YAMASAKI | | TITLE 150M-W2VN |
| CHECKED Nov. 26 '03 T.TAKENO | | 名称 150MHzホイップアンテナ |
| APPROVED Nov.28'03 T.Matsuguchi | | 外寸図 |
| SCALE 1/5 MASS 0.7 ±10% kg | | NAME 150MHz WHIP ANTENNA |
| DWG.No. C5011-042- C | | OUTLINE DRAWING |

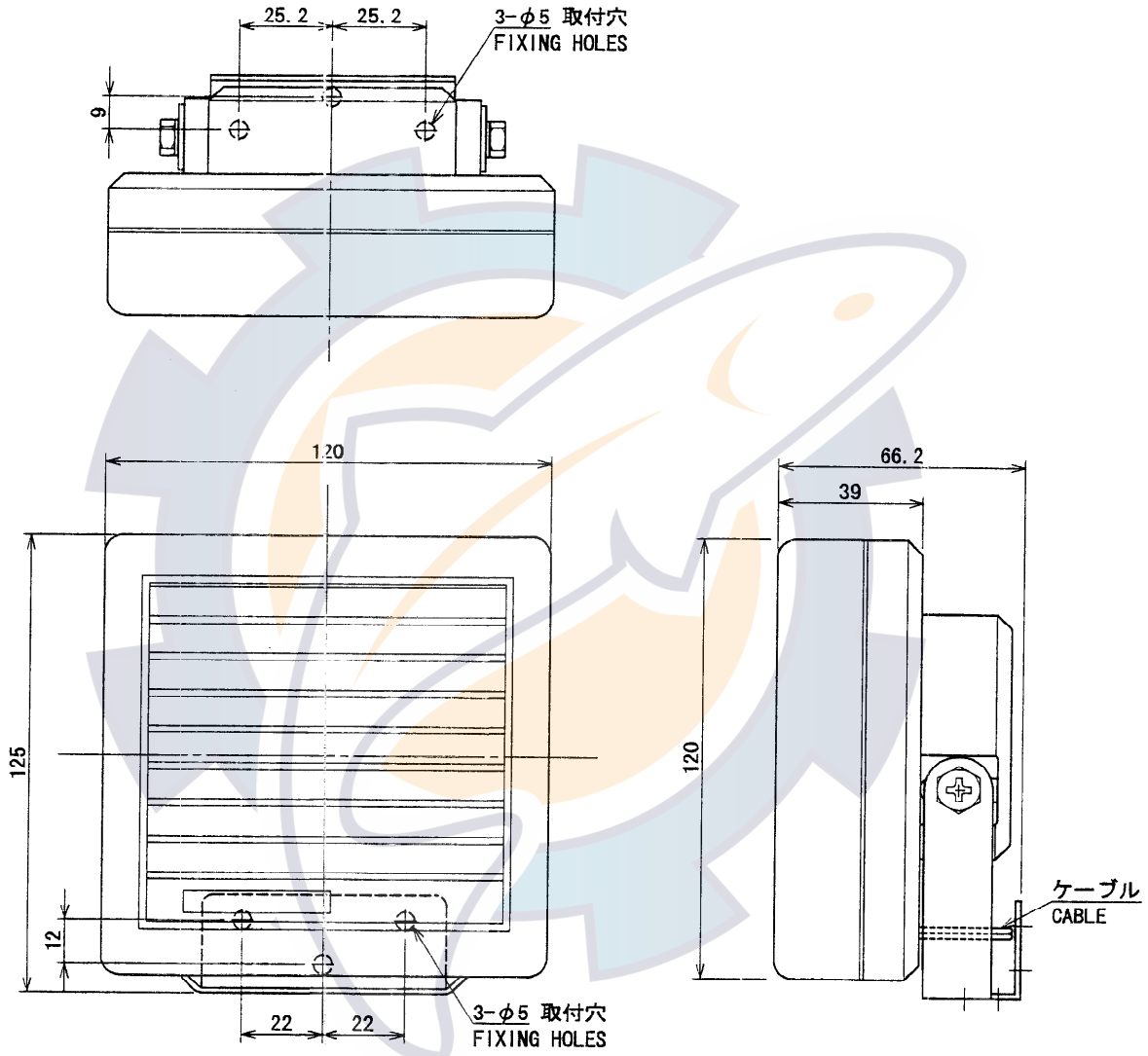
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表1　TABLE 1

| 寸法区分(mm) DIMENSION | 公差(mm) TOLERANCE |
|---|---|
| 0 ＜ L ≦ 50 | ±1.5 |
| 50 ＜ L ≦ 100 | ±2.5 |
| 100 ＜ L ≦ 500 | ±3 |




注記

1）指定なき寸法公差は表1による。

NOTE

1. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS.

| | | | |
|---|---|---|---|
| DRAWN May 23 '01 T. YAMASAKI | | TITLE | SEM-21Q |
| CHECKED | | 名称 | スピーカ |
| APPROVED | | | 外寸図 |
| SCALE 1/2 | MASS 0.54 kg ±10% | 質量は2.8mケーブルを含む MASS W/ 2.8m CABLE | NAME LOUDSPEAKER |
| DWG. No. C5016-G07- A | | | OUTLINE DRAWING |

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注記

1） 指定外の寸法公差は表１による。

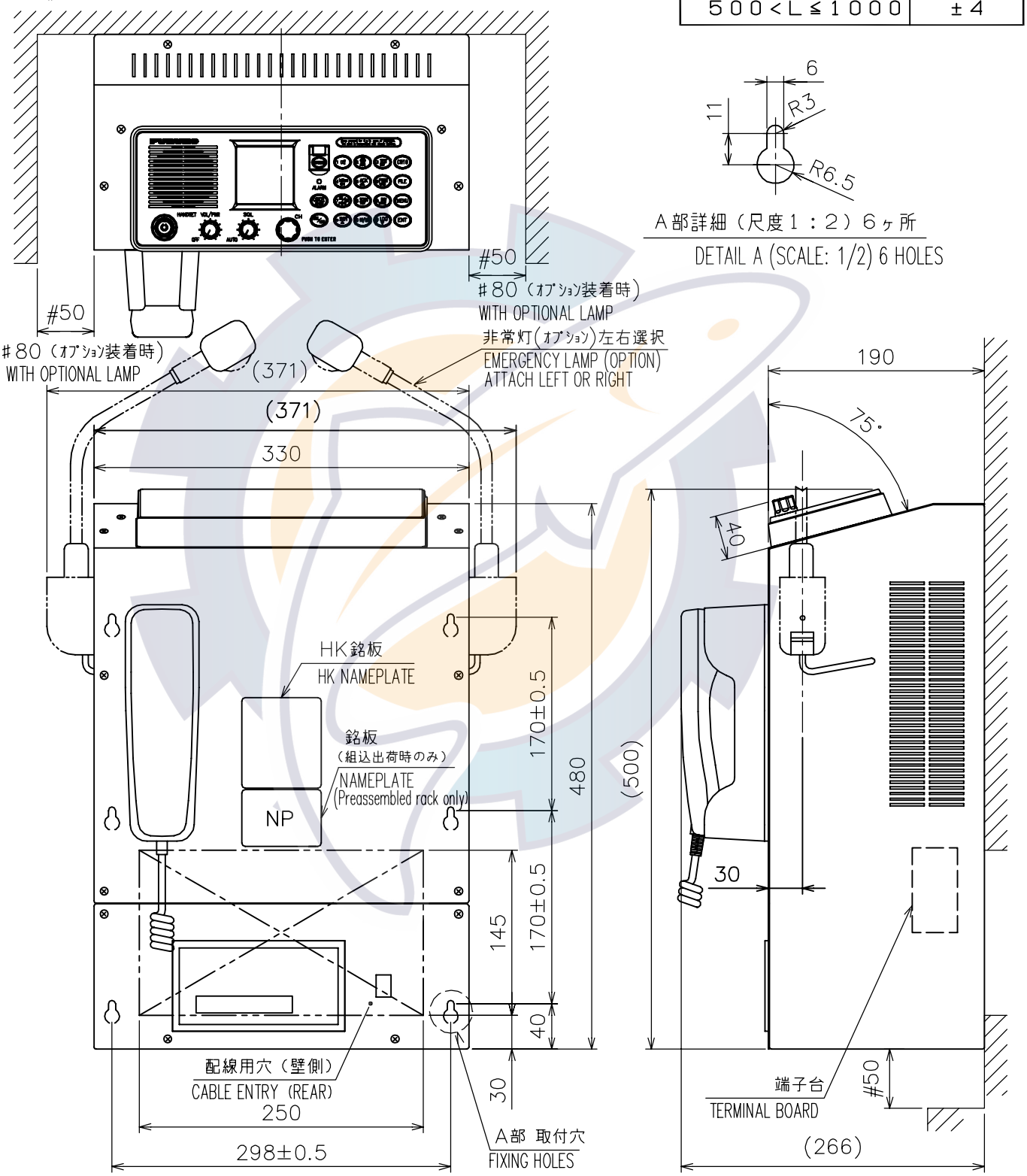
2） ＃印寸法は最小サービス空間とする。

NOTE

1. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
2. #: MINIMUM SERVICE CLEARANCE.

表１ TABLE 1

| 寸法区分（ｍｍ） DIMENSIONS | 公差（ｍｍ） TOLERANCE |
|---|---|
| Ｌ≦５０ | ±１．５ |
| ５０＜Ｌ≦１００ | ±２．５ |
| １００＜Ｌ≦５００ | ±３ |
| ５００＜Ｌ≦１０００ | ±４ |




| | | | |
|---|---|---|---|
| DRAWN Oct. 11, '05 E.MIYOSHI | | TITLE | RC-8800 |
| CHECKED TAKAHASHI.T | | 名称 | コンソールキット（壁掛ラック、プリンタ付） |
| APPROVED Y. Hatai | FM-8800D/S | | 外寸図 |
| SCALE 1/5 | MASS 17.0 ±10% kg 質量はプリンタを含む。 MASS INCLUDES PRINTER. | NAME | CONSOLE KIT (RACK W/PRINTER) |
| DWG.No. C5642-G05- C | REF.No. 05-093-700G-5 | | OUTLINE DRAWING |

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注記

1） 指定外の寸法公差は表１による。

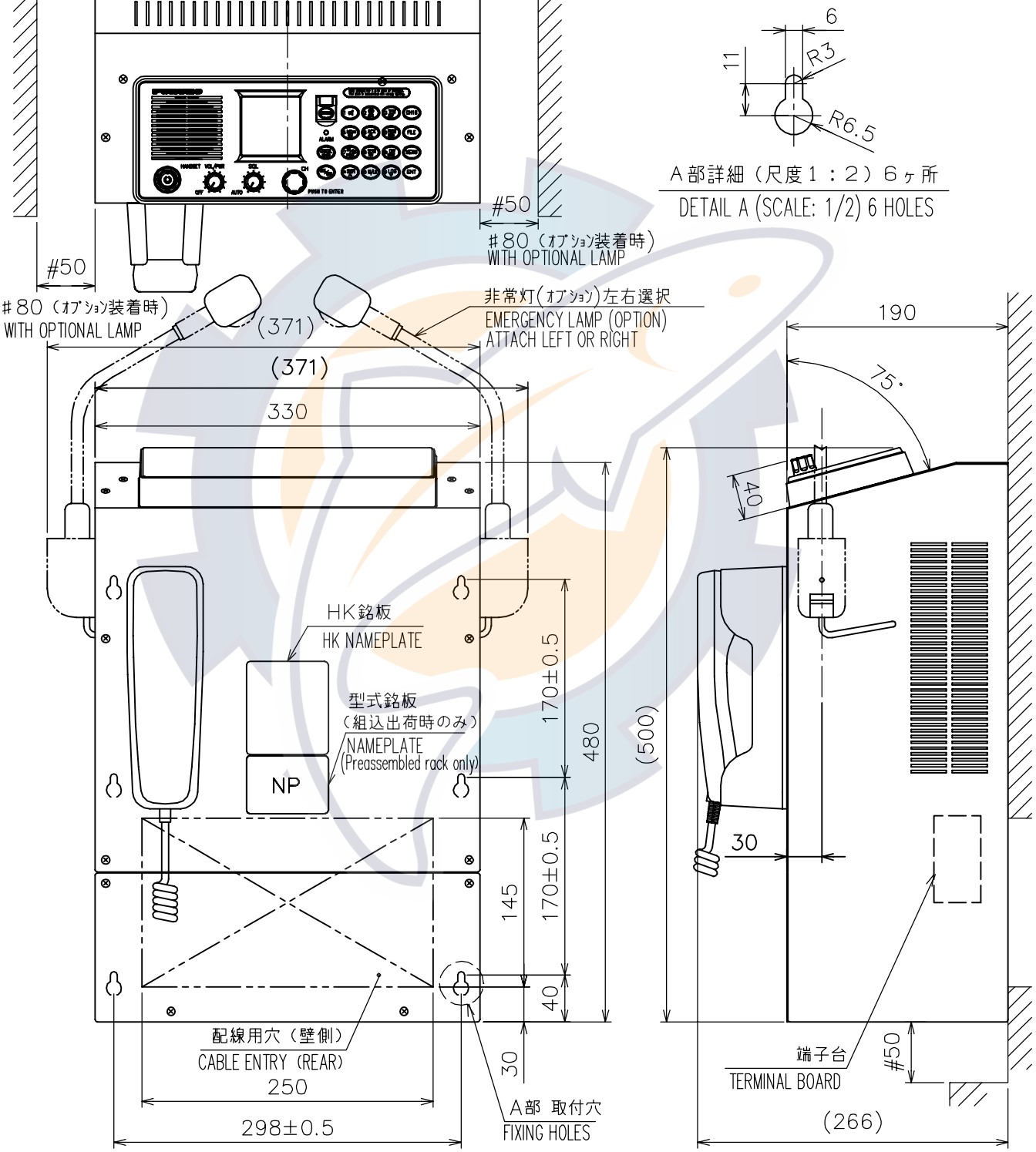
2） ＃印寸法は最小サービス空間とする。

NOTE

1. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
2. #: MINIMUM SERVICE CLEARANCE.

表１ TABLE 1

| 寸法区分（ｍｍ） DIMENSIONS | 公差（ｍｍ） TOLERANCE |
|---|---|
| Ｌ≦５０ | ±１．５ |
| ５０＜Ｌ≦１００ | ±２．５ |
| １００＜Ｌ≦５００ | ±３ |
| ５００＜Ｌ≦１０００ | ±４ |



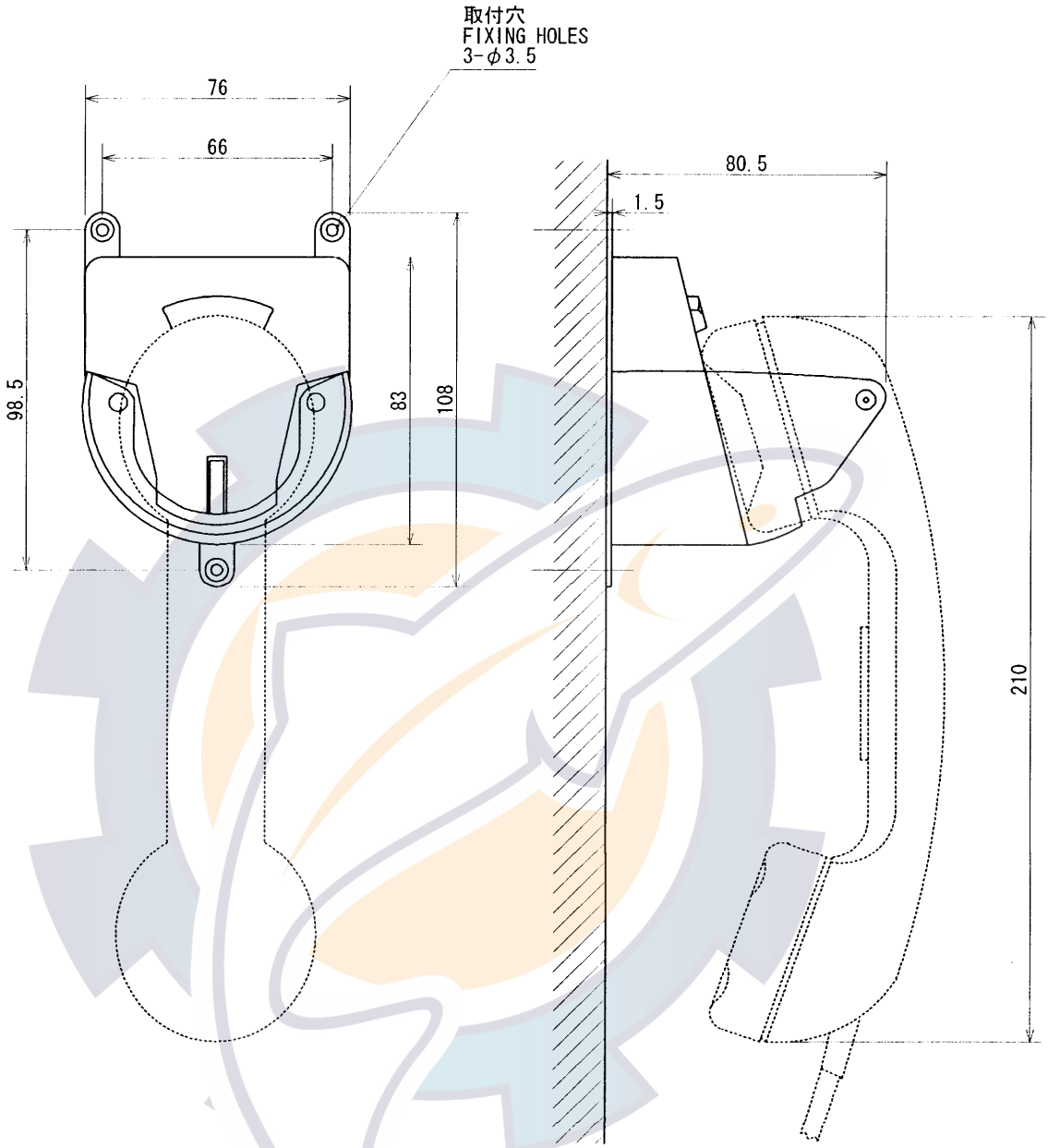

| | | | |
|---|---|---|---|
| DRAWN Oct. 11, '05 E.MIYOSHI | | TITLE | RC-8800 |
| CHECKED TAKAHASHI.T | | 名称 | コンソールキット（壁掛ラック、プリンタ無し） |
| APPROVED Y. Hatai | FM-8800D/S | | 外寸図 |
| SCALE 1/5 MASS 15.0 ±10% kg | | NAME | CONSOLE KIT (RACK W/O PRINTER) |
| DWG.No. C5642-G07- C | REF.No. 05-093-710G-1 | | OUTLINE DRAWING |

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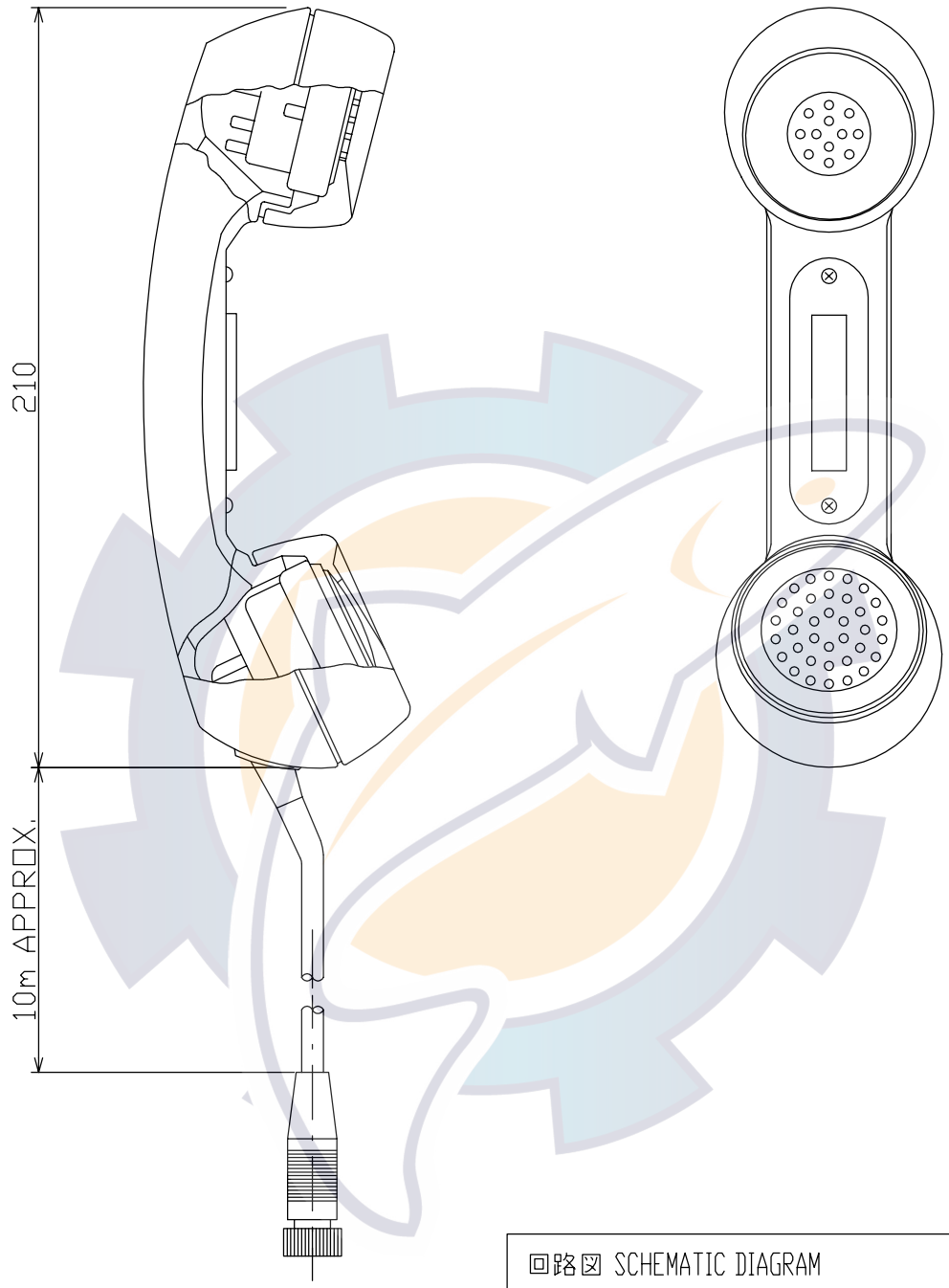



| | | | |
|---|---|---|---|
| DRAWN Aug 16 '00 T.YAMASAKI | | | TITLE AP-102 |
| CHECKED Aug 16 '00 Y.K | | | 名称 ハンドセットハンガー |
| APPROVED Aug 16 '00 Y.K | | | 外寸図 |
| SCALE 1/2 MASS 0.5 kg | | | NAME HANDSET HANGER |
| DWG. No. C5015-G05-B | | | OUTLINE DRAWING |

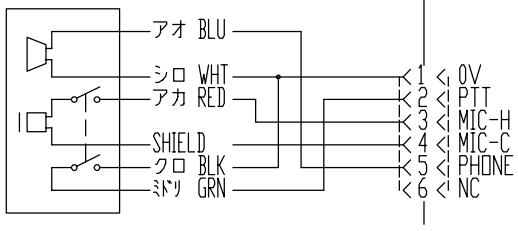
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回路図 SCHEMATIC DIAGRAM



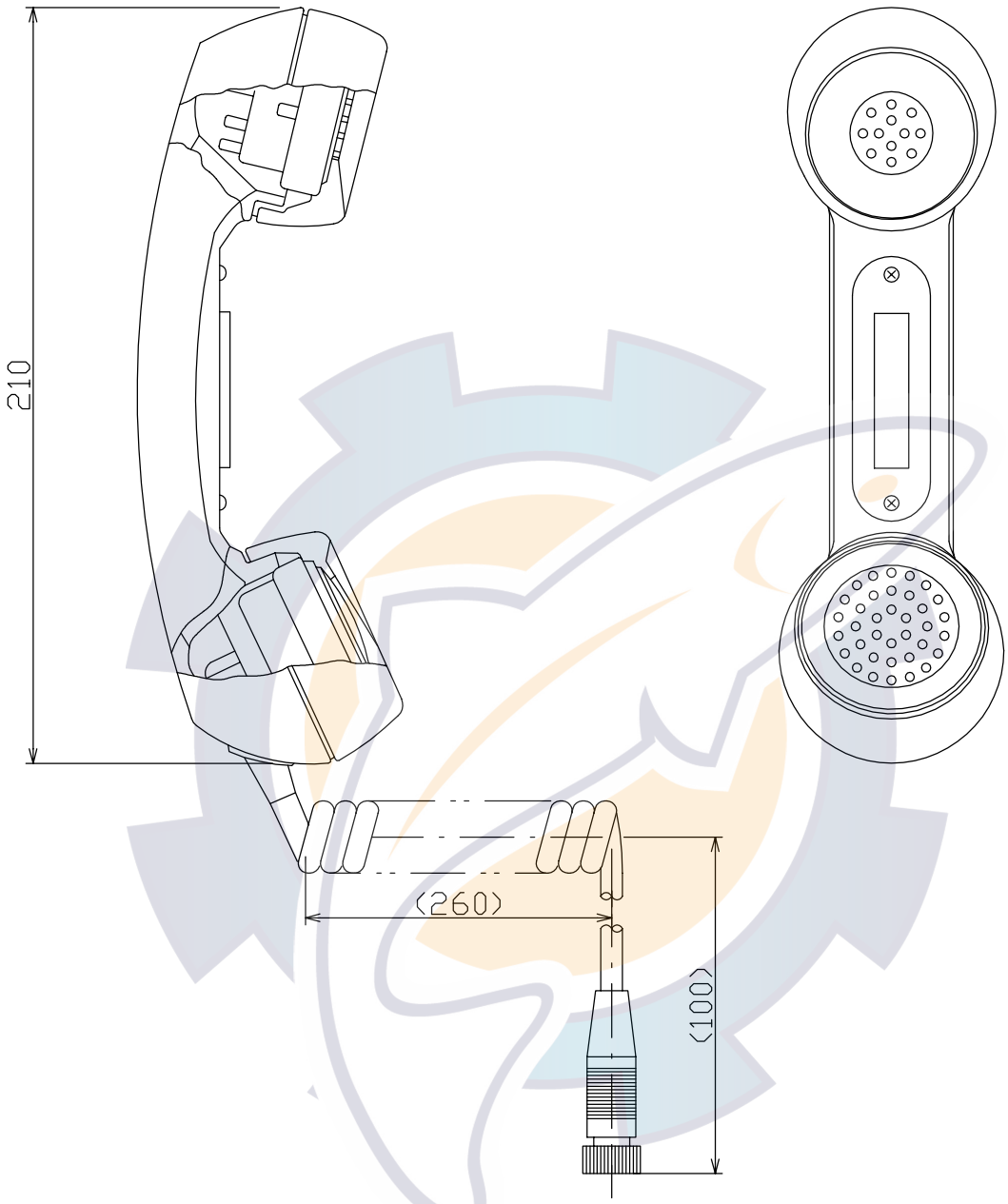

| | |
|---|---|
| 材質 MATERIAL | ABS樹脂 ABS RESIN |
| 色 COLOR | 黒 BLACK |

| | | | |
|---|---|---|---|
| DRAWN | Dec. 22 '03 T.YAMASAKI | TITLE | HS-6000FZ11 |
| CHECKED | Dec. 22 '03 T.TAKENO | 名称 | ハンドセット |
| APPROVED | Dec.26'03 T.Matsuguchi | | 外寸図 |
| SCALE | 1/2 | MASS | 0.5 kg |
| DWG.No. | C5015-G11- A | NAME | HANDSET |
| | | | OUTLINE DRAWING |

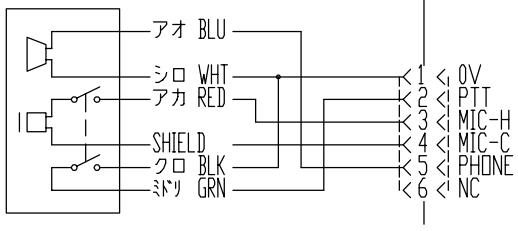
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回路図 SCHEMATIC DIAGRAM




| | |
|---|---|
| 材質 MATERIAL | ABS樹脂 ABS RESIN |
| 色 COLOR | 黒 BLACK |

| | | | |
|---|---|---|---|
| DRAWN Dec. 22 '03 T.YAMASAKI | | TITLE | HS-6000FZ5 |
| CHECKED Dec. 22 '03 T.TAKENO | | 名称 | ハンドセット |
| APPROVED Dec.26'03 T.Matsuguchi | | | 外寸図 |
| SCALE 1/2 MASS 0.3 kg | | NAME | HANDSET |
| DWG.No. C5015-024- D | | | OUTLINE DRAWING |

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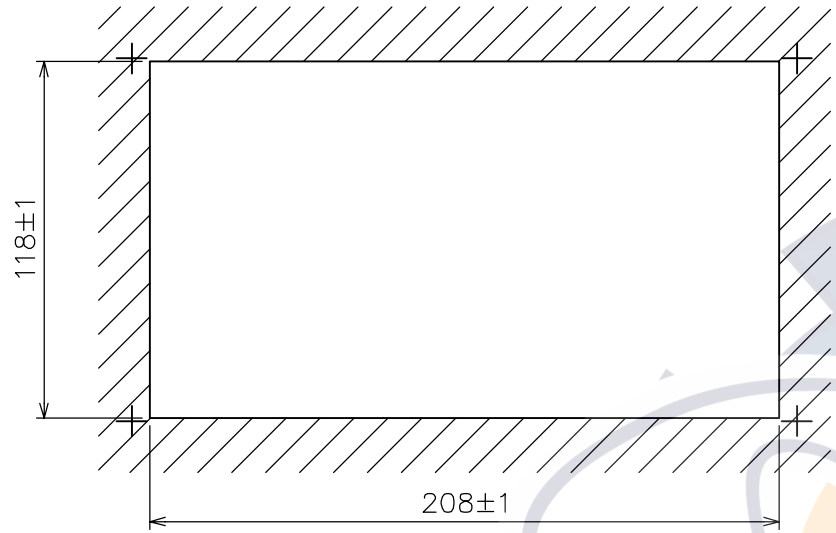
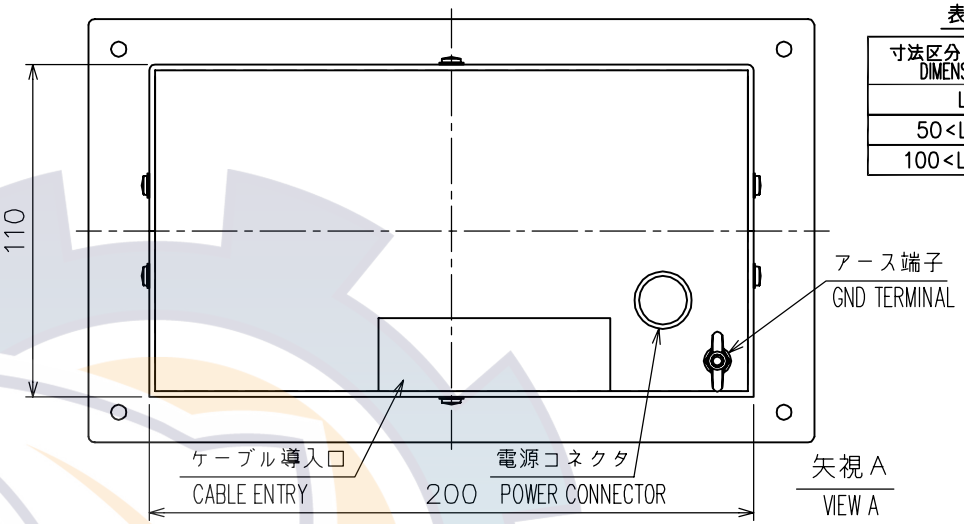
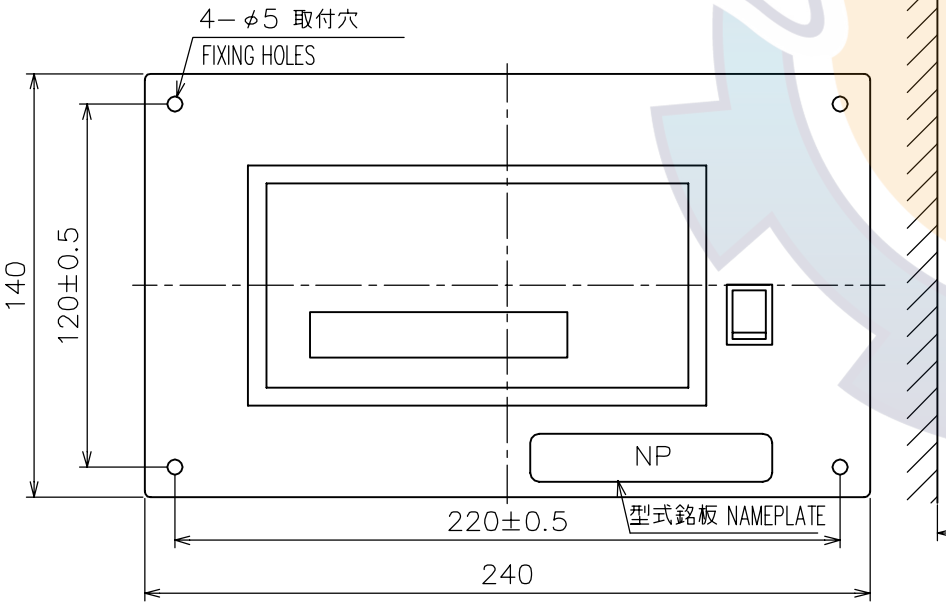
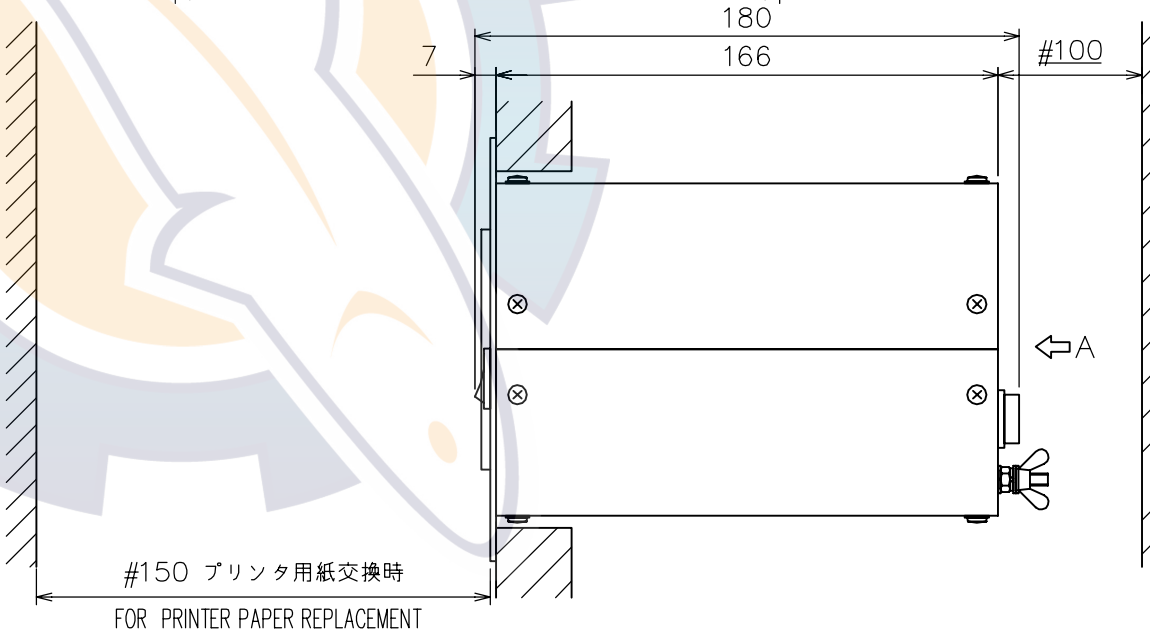



表 1 TABLE 1

| 寸法区分（mm） DIMENSIONS | 公差（mm） TOLERANCE |
|---|---|
| L≦50 | ±1.5 |
| 50<L≦100 | ±2.5 |
| 100<L≦500 | ±3 |




注 記
1） #印寸法は最小サービス空間寸法とする。
2） 指定外の寸法公差は表 1 による。
3） 取付用ネジはトラスタッピンネジ呼び径4×16を使用のこと。

NOTE
1. #: MINIMUM SERVICE CLEARANCE.
2. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS WHICH IS NOT SPECIFIED.
3. USE SELF-TAPPING SCREWS 4x16 FOR FIXING THE UNIT.

| | | |
|---|---|---|
| DRAWN Apr. 28, '06 E. MIYOSHI | | TITLE PP-8800 |
| CHECKED TAKAHASHI. T | | 名称 プリンタ （埋込装備） |
| APPROVED Y. Hatai | FM-8800S/D | 外寸図 |
| SCALE 1/2.5 MASS 2.0 ±10% kg | | NAME PRINTER (FLUSH MOUNT) |
| DWG.No. C5642-G15- A | REF.No. 05-093-7906-1 | OUTLINE DRAWING |

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S-1

T/R用アンテナ
ANTENNA FOR T/R
*2

CH70 WR用アンテナ
ANTENNA FOR CH70 WR
*2

送受信機
TRANSCEIVER UNIT
FM-8800D/S
IEC61162-1(NMEA)/REMOTE

D-SUB 37P

接続箱
JUNCTION BOX
IF-8810

*2
CO-SPEVV-SB-C
0.2X2P, φ10.5

航法装置, プロッタ
NAVIGATION DEVICE, PLOTTER
RXD(H)
RXD(C)
TXD(H)
TXD(C)

Wing Mic *2
ハンドセット
HANDSET
HS-6000FZ-11
HS-6000FZ-5

マイクレセプタクルボックス
MIC RECEPTACLE BOX
RBD-VHF(B)
TB1
キ YEL
シロ WHT ↕P
アカ RED
キ YEL ↕P
クロ BLK
キ YEL ↕P

TTYCS-1 MAX. 20m *1
外部アラーム
Ext. Alarm *1

CO-SPEVV-SB-C 0.2x5P, φ13.5 MAX. 20m *2

ANT
CH70 RX ANT
M-P-5

ハンドセット
HANDSET
HS-2003
HANDSET
S.GND
PTT SW_N
MIC(H)
MIC(C)
HS SP(H)
HOOK SW_N
+5V
F.GND

外部スピーカ
EXT. SP
SEM-21Q *2
2.8 m
SPKR
SP(H)
SP(C)

J1
J2
J3

| | | | | | |
|---|---|---|---|---|---|
| +15VDC | 1 | | | 1 | TXD(H) |
| +15VDC | 2 | P | | 2 | TXD(C) |
| +15VDC | 3 | P | | 3 | RXD(H) |
| +15VDC | 4 | P | | 4 | RXD(C) |
| N.C | 5 | | | 5 | F.GND |
| N.C | 6 | P | | 6 | EXT.ALM_N |
| TXD(H) | 7 | P | | 7 | *7 OV |
| TXD(C) | 8 | P | | 8 | F.GND |
| RXD(H) | 9 | P | | 9 | W-MIC1(H) |
| RXD(C) | 10 | P | | 10 | W-MIC1(C) |
| EXT.ALM_N | 11 | | | 11 | W-SP1(H) |
| OV | 12 | P | | 12 | W-SP1(C) |
| W-MIC1(H) | 13 | P | | 13 | W-PTT1_N |
| W-MIC1(C) | 14 | P | | 14 | OV |
| W-SP1(H) | 15 | P | | 15 | F.GND |
| W-SP1(C) | 16 | P | | 16 | W-MIC2(H) |
| W-PTT1_N | 17 | P | | 17 | W-MIC2(C) |
| OV | 18 | P | | 18 | W-SP2(H) |
| OV | 19 | P | | 19 | W-SP2(C) |
| OV | 20 | P | | 20 | W-PTT2_N |
| OV | 21 | P | | 21 | OV |
| OV | 22 | P | | 22 | F.GND |
| VDR AF(H) | 23 | P | | 23 | VDR AF(H) |
| VDR AF(C) | 24 | P | | 24 | VDR AF(C) |
| DATA_A | 25 | P | | 25 | NOT USED_1 |
| DATA_B | 26 | P | | 26 | NOT USED_2 |
| LINE OUT(H) | 27 | P | | 27 | F.GND |
| LINE OUT(C) | 28 | P | | 28 | +15VDC |
| LINE IN(H) | 29 | P | | 29 | OV |
| LINE IN(C) | 30 | P | | 30 | DATA_A |
| W-MIC2(H) | 31 | P | | 31 | DATA_B |
| W-MIC2(C) | 32 | P | | 32 | LINE IN(H) |
| W-SP2(H) | 33 | P | | 33 | LINE IN(C) |
| W-SP2(C) | 34 | P | | 34 | LINE OUT(H) |
| W-PTT2_N | 35 | P | | 35 | LINE OUT(C) |
| OV | 36 | P | | 36 | F.GND |
| F.GND | 37 | | | 37 | N.C |
| | | | | 38 | +15VDC |
| | | | | 39 | OV |
| | | | | 40 | DATA_A |
| | | | | 41 | DATA_B |
| | | | | 42 | LINE IN(H) |
| | | | | 43 | LINE IN(C) |
| | | | | 44 | LINE OUT(H) |
| | | | | 45 | LINE OUT(C) |
| | | | | 46 | F.GND |
| | | | | 47 | N.C |
| | | | | 48 | N.C |

*4
アカ RED
キ YEL
クロ BLK
キ YEL
シロ WHT
キ YEL
アカ RED
キ YEL
クロ BLK
キ YEL
シロ WHT
キ YEL

TTYCS-1 MAX. 20m *1
VDR

*2
05S0309
終端まで最大50m
MAX. 50m TO LAST UNIT
シロ(太) WHT(BIG)
クロ(太) BLK(BIG)
ミドリ GRN
アオ BLU
キ YEL
ダイ ORG
アカ RED
チャ BRN

IV-1.25sq. *1

ハンドセット
HANDSET *2
HS-8800

リモートステーション
REMOTE STATION *2
RB-8800/RB-8810
*3
*5
DATA_A
DATA_B
CONT
DIST_SW
LINE OUT(H)
LINE I/O(C)
LINE IN(H)
+15V1
OV
F.GND

TB1 TB2 TB3
+15VDC
OV
DATA_A
DATA_B
LINE IN(H)
LINE IN(C)
LINE OUT(H)
LINE OUT(C)
シロ(太) WHT(BIG)
クロ(太) BLK(BIG)
ミドリ GRN
アオ BLU
アカ RED
チャ BRN
キ YEL
ダイ ORG

IV-1.25 *1
IV-1.25sq. *1
左と同じ Same as left

ハンドセット *2
HANDSET 上に同じ Same as above
HS-8800

DMC I/F *2
IF-8820

上に同じ Same as above

遭難警報装置 *2
DISTRESS MESSAGE CONTROLLER
DMC-5
TB1/TB2
TXD(H)
TXD(C)
RXD(H)
RXD(C)
F.GND

*1 CO-SPEVV-SB-C
0.2x2P(5/10/15/20/30m)

PRINTER *2
D-SUB 25P
STROBE_N
D0
D1
D2
D3
D4
D5
D6
D7
ACK_N
BUSY
PE
SELECT
ALF_N
ERROR_N
INIT._N
SLCT IN_N
F.GND
OV
F.GND
F.GND
F.GND
F.GND
F.GND
F.GND

17JE-23250-02,3m

プリンタ*2
PRINTER
PP-510
アカ RED
クロ BLK
シロ WHT
VCTF0.75x3C,5m,φ7
24VDC
IV-1.25sq. *1

プリンタ*2
PRINTER
PP-8800
シロ WHT
クロ BLK
VCTF0.75x2C,3m
24VDC
IV-1.25sq. *1

AC/DC電源
AC-DC POWER SUPPLY
PR-240-CE *2
DPYC-1.5 *1
100-115/200-230 VAC
AC IN
DPYC-2.5 *1
24 VDC
24VDC IN
DC OUT
PE 保護アース
IV-2sq. *1

24VDC
24 VDC
05S9371,3m
15A
RED
BLK
24VDC(+)
24VDC(-)

GND
IV-2sq. *1

注記 *1) 造船所手配。
*2) オプション。
*3) 最大4台まで接続可能。
*4) ケーブルクランプで接地。
*5) 終端のユニットでは内部で
ジャンパー(J2, J3)をONにする。
*6) P: 撚り対線
*7) ノーマルクローズ、フローティング
最大80mA、耐圧≦50V。

NOTE *1. SHIPYARD SUPPLY
*2. OPTION
*3. Max. 4 sets
*4. GROUND THROUGH CABLE CLAMP.
*5. CONNECT JUMPERS (J2 & J3)
ON TERMINATED REMOTE STATION.
*6. P: TWISTED PAIR CABLE
*7. NORMAL CLOSE, FLOATING, MAX80mA,
WITHSTAND VOLTAGE ≦50V.

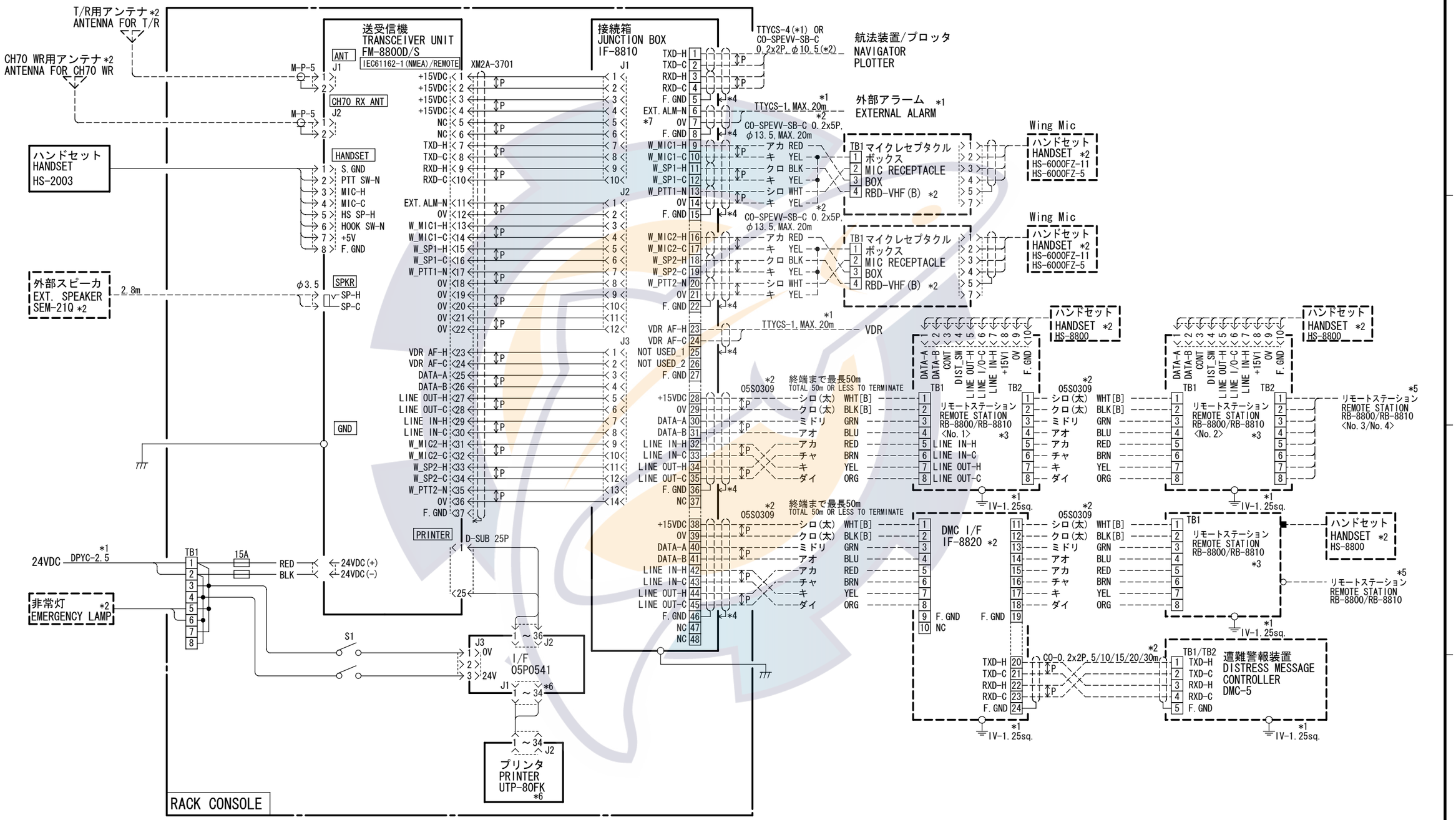
| | | | |
|---|---|---|---|
| DRAWN | Jun. 9,'06 E.MIYOSHI | TITLE | FM-8800D/S |
| CHECKED | TAKAHASHI.T | 名称 | 国際VHF無線電話装置 |
| APPROVED | Y. Hatai | | 相互結線図 |
| SCALE | MASS kg | NAME | VHF RADIOTELEPHONE |
| DWG No. | C5642-C01- J | | INTERCONNECTION DIAGRAM |

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FURUNO

S-2




注記
- *1) 造船所手配。
- *2) オプション。
- *3) 最大4台まで接続可能。
- *4) ケーブルクランプで接地。
- *5) 終端ユニットは内部のジャンパー（J2,J3）をONにする。
- *6) プリンタ有の場合
- *7) ノーマルクローズ、フローティング、最大80mA、耐圧≦50V。

NOTE
- *1. SHIPYARD SUPPLY
- *2. OPTION
- *3. MAX. 4 SETS AVAILABLE
- *4. GROUND THROUGH CABLE CLAMP.
- *5. CONNECT JUMPERS (J2 & J3) ON TERMINATED REMOTE STATION.
- *6. IN CASE OF "W/PRINTER"
- *7. NORMAL CLOSE, FLOATING, MAX80mA, WITHSTAND VOLTAGE ≦50V.

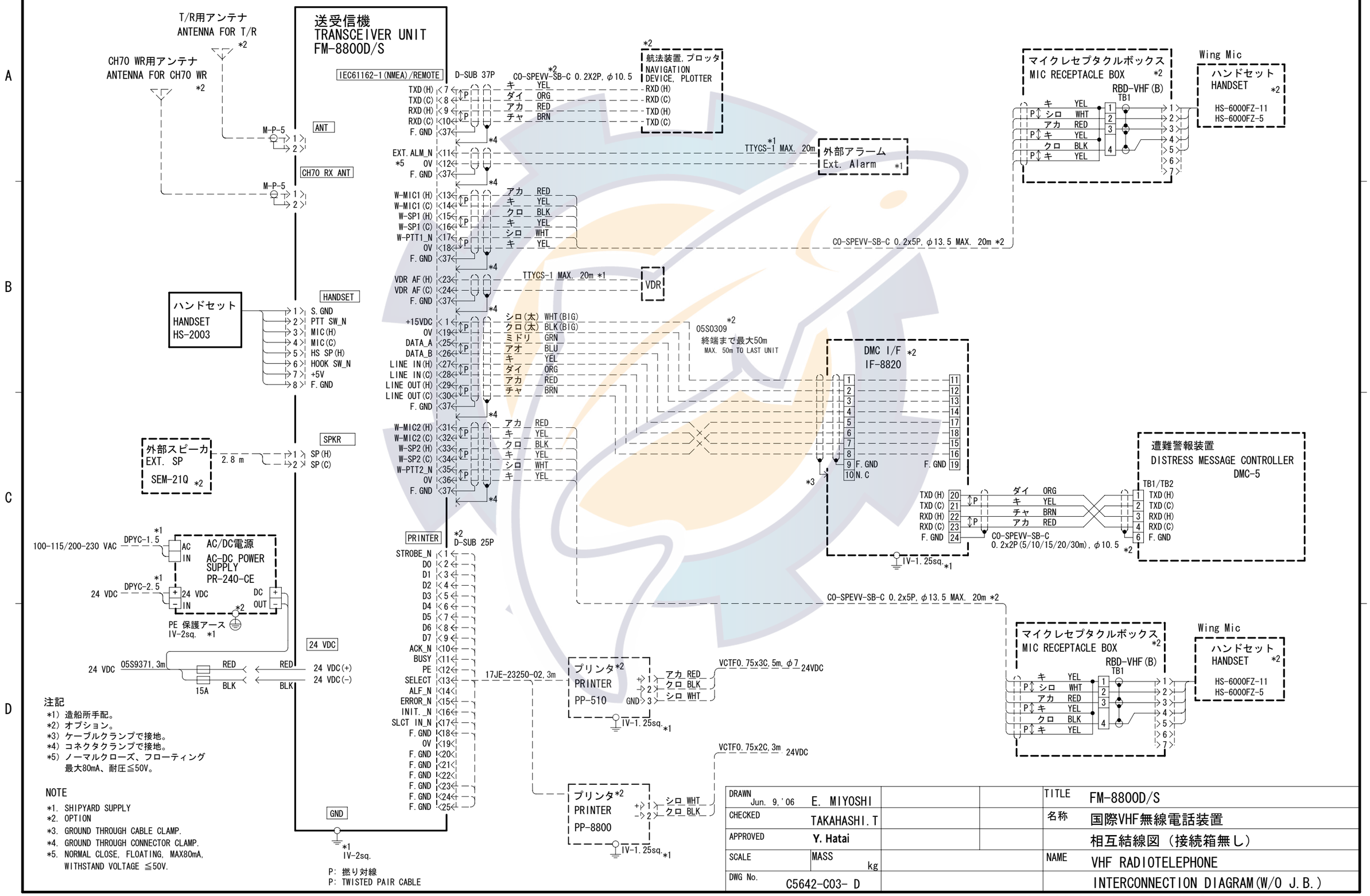
| | | | |
|---|---|---|---|
| DRAWN Jun. 9, '06 E.MIYOSHI | | TITLE | RC-8800 (FM-8800) |
| CHECKED TAKAHASHI.T | | 名称 | 国際VHF無線電話装置（ラック組込） |
| APPROVED Y. Hatai | | | 相互結線図 |
| SCALE | MASS kg | NAME | VHF RADIOTELEPHONE (RACK CONSOLE) |
| DWG No. C5642-C02- D | | | INTERCONNECTION DIAGRAM |

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注記

*1) 造船所手配。
*2) オプション。
*3) ケーブルクランプで接地。
*4) コネクタクランプで接地。
*5) ノーマルクローズ、フローティング
最大80mA、耐圧≦50V。

NOTE

*1. SHIPYARD SUPPLY
*2. OPTION
*3. GROUND THROUGH CABLE CLAMP.
*4. GROUND THROUGH CONNECTOR CLAMP.
*5. NORMAL CLOSE, FLOATING, MAX80mA, WITHSTAND VOLTAGE ≦50V.

P: 撚り対線
P: TWISTED PAIR CABLE

| | | | | | |
|---|---|---|---|---|---|
| DRAWN | Jun. 9,'06 E. MIYOSHI | | | TITLE | FM-8800D/S |
| CHECKED | TAKAHASHI.T | | | 名称 | 国際VHF無線電話装置 |
| APPROVED | Y. Hatai | | | | 相互結線図（接続箱無し） |
| SCALE | MASS kg | | | NAME | VHF RADIOTELEPHONE |
| DWG No. | C5642-C03- D | | | | INTERCONNECTION DIAGRAM(W/O J.B.) |

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