



## INSTRUCTION MANUAL

# VHF MARINE TRANSCEIVER **IC-M400BB**

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.



Icom Inc.

---

## PRECAUTIONS

---

**⚠ WARNING! NEVER** connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

**⚠ WARNING! NEVER** connect the transceiver to a power source of more than 16 V DC or use reverse polarity. This will ruin the transceiver.

**⚠ WARNING! NEVER** cut the DC power cable between the DC plug at the back of the transceiver and fuse holder. If an incorrect connection is made after cutting, the transceiver may be damaged.

**CAUTION: NEVER** place the transceiver where normal operation of the vessel may be hindered or where it could cause bodily injury.

**KEEP** the transceiver and microphone at least 1 m away from the vessel's magnetic navigation compass.

**DO NOT** use or place the transceiver in areas with temperatures below  $-20^{\circ}\text{C}$  or above  $+60^{\circ}\text{C}$  or, in areas subject to direct sunlight, such as the dashboard.

**DO NOT** use harsh solvents such as benzine or alcohol to clean the transceiver, as they will damage the transceiver's surfaces. If the transceiver becomes dusty or dirty, wipe it clean with a soft, dry cloth.

**DO NOT** disassemble or modify the transceiver for any reason.

**BE CAREFUL!** The transceiver rear panel will become hot when operating continuously for long periods of time.

Place the transceiver in a secure place to avoid inadvertent use by children.

**BE CAREFUL!** The transceiver and the supplied or optional HM-195 COMMANDMICIV™ meet IPX7 requirements for waterproof protection. However, once the transceiver has been dropped, waterproof protection cannot be guaranteed because of possible damage to the transceiver's case or the waterproof seal.

\* Except for the DC power connector, NMEA In/Out leads and AF Out leads.

### ***For U.S.A. only***

**CAUTION:** Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations.

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia and/or other countries.

COMMANDMIC is a registered trademark of Icom Incorporated (Japan) in Japan and the United States.

---

## FCC INFORMATION

---

• **FOR CLASS A UNINTENTIONAL RADIATORS:**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

---

## NOTE

---

**A WARNING STICKER** is supplied with the U.S.A. version transceiver.

To comply with FCC regulations, this sticker must be affixed in such a location as to be readily seen from the operating controls of the radio as in the diagram below. Make sure the chosen location is clean and dry before applying the sticker.

---

## COUNTRY CODE LIST

---

• **ISO 3166-1**

	Country	Codes		Country	Codes
1	Austria	AT	18	Liechtenstein	LI
2	Belgium	BE	19	Lithuania	LT
3	Bulgaria	BG	20	Luxembourg	LU
4	Croatia	HR	21	Malta	MT
5	Czech Republic	CZ	22	Netherlands	NL
6	Cyprus	CY	23	Norway	NO
7	Denmark	DK	24	Poland	PL
8	Estonia	EE	25	Portugal	PT
9	Finland	FI	26	Romania	RO
10	France	FR	27	Slovakia	SK
11	Germany	DE	28	Slovenia	SI
12	Greece	GR	29	Spain	ES
13	Hungary	HU	30	Sweden	SE
14	Iceland	IS	31	Switzerland	CH
15	Ireland	IE	32	Turkey	TR
16	Italy	IT	33	United Kingdom	GB
17	Latvia	LV			

---

# AVERTISSEMENT POUR LES OPÉRATEURS RADIO

---



## AVERTISSEMENT

Icom exige que l'opérateur radio se conforme aux exigences de la FCC en matière d'exposition aux radiofréquences. Une antenne omnidirectionnelle dont le gain ne dépasse pas 9dBi doit être fixée à une distance minimale de 5 mètres (mesurée depuis le point le plus bas de l'antenne) verticalement au-dessus du pont principal et de tout le personnel qui peut s'y trouver. Il s'agit de la distance de sécurité minimale prévue pour satisfaire aux exigences de conformité en matière d'exposition aux RF. Cette distance de 5 mètres est établie en fonction de l'exposition maximale admissible sécuritaire de 3 mètres établie par la FCC, à laquelle on ajoute la hauteur d'un adulte (2 mètres); cette distance convient pour tous les navires.

Dans le cas des embarcations sans structure convenable, l'antenne doit être fixée de façon à maintenir une distance minimale de 1 mètre verticalement entre cette antenne (mesurée depuis son point le plus bas) et la tête de toute personne présente; toutes les personnes présentes doivent se tenir à l'extérieur d'un rayon d'exposition maximale admissible de 3 mètres.

Ne pas émettre à l'aide de la radio et de l'antenne lorsque des personnes se trouvent à l'intérieur du rayon d'exposition maximale admissible de cette antenne, à moins que ces personnes (comme le conducteur ou l'opérateur radio) ne soient protégées du champ de l'antenne par un écran métallique relié à la masse. Le rayon d'exposition maximale admissible équivaut à la distance minimale que cette personne doit maintenir entre elle et l'axe de l'antenne pour éviter une exposition aux RF supérieure au niveau d'exposition maximale admissible fixé par la FCC.

**LE NON-RESPECT DE CES LIMITES PEUT CAUSER, POUR LES PERSONNES SITUÉES DANS LE RAYON D'EXPOSITION MAXIMALE ADMISSIBLE, UNE ABSORPTION DE RAYONNEMENT DE RF SUPÉRIEURE À L'EXPOSITION MAXIMALE ADMISSIBLE FIXÉE PAR LA FCC.**

**L'OPÉRATEUR RADIO EST RESPONSABLE D'ASSURER QUE LES LIMITES D'EXPOSITION MAXIMALE ADMISSIBLE SOIENT RESPECTÉES EN TOUT TEMPS PENDANT LA TRANSMISSION RADIO. L'OPÉRATEUR RADIO DOIT S'ASSURER QU'AUCUNE PERSONNE PRÉSENTE NE SE SITUE À L'INTÉRIEUR DU RAYON D'EXPOSITION MAXIMALE ADMISSIBLE.**

**Établir le rayon d'exposition maximale admissible ON ESTIME QUE LE RAYON D'EXPOSITION MAXIMALE ADMISSIBLE EST D'ENVIRON 3 M, TEL QUE STIPULÉ DANS LE BULLETIN OET 65 DE LA FCC. CETTE DISTANCE ESTIMÉE TIENT COMPTE D'UN SYSTÈME INSTALLÉ SUR UN NAVIRE UTILISANT LA PUISSANCE MAXIMALE DE LA RADIO ET DES ANTENNES DONT LE GAIN MAXIMAL EST DE 9dBi.**

---

## RADIO OPERATOR WARNING

---



Icom requires the radio operator to meet the FCC Requirements for Radio Frequency Exposure. An omnidirectional antenna with gain not greater than 9 dBi must be mounted a minimum of 5 meters (measured from the lowest point of the antenna) vertically above the main deck and all possible personnel. This is the minimum safe separation distance estimated to meet all RF exposure compliance requirements. This 5 meter distance is based on the FCC Safe Maximum Permissible Exposure (MPE) distance of 3 meters added to the height of an adult (2 meters) and is appropriate for all vessels.

For watercraft without suitable structures, the antenna must be mounted so as to maintain a minimum of 1 meter vertically between the antenna, (measured from the lowest point of the antenna), to the heads of all persons AND all persons must stay outside of the 3 meter MPE radius.

Do not transmit with radio and antenna when persons are within the MPE radius of the antenna, unless such persons (such as driver or radio operator) are shielded from antenna field by a grounded metallic barrier. The MPE Radius is the minimum distance from the antenna axis that person should maintain in order to avoid RF exposure higher than the allowable MPE level set by FCC.

**FAILURE TO OBSERVE THESE LIMITS MAY ALLOW THOSE WITHIN THE MPE RADIUS TO EXPERIENCE RF RADIATION ABSORPTION WHICH EXCEEDS THE FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE) LIMIT. IT IS THE RESPONSIBILITY OF THE RADIO OPERATOR TO ENSURE THAT THE MAXIMUM PERMISSIBLE EXPOSURE LIMITS ARE OBSERVED AT ALL TIMES DURING RADIO TRANSMISSION. THE RADIO OPERATOR IS TO ENSURE THAT NO BYSTANDERS COME WITHIN THE RADIUS OF THE MAXIMUM PERMISSIBLE EXPOSURE LIMITS.**

### **Determining MPE Radius**

**THE MAXIMUM PERMISSIBLE EXPOSURE (MPE) RADIUS HAS BEEN ESTIMATED TO BE A RADIUS OF ABOUT 3M PER OET BULLETIN 65 OF THE FCC. THIS ESTIMATE IS MADE ASSUMING THE MAXIMUM POWER OF THE RADIO AND ANTENNAS WITH A MAXIMUM GAIN OF 9dBi ARE USED FOR A SHIP MOUNTED SYSTEM.**

## ◇ Priorities

- Read all rules and regulations pertaining to call priorities, and keep an up-to-date copy handy. Safety and distress calls take priority over all others.
- You must monitor Channel 16 when you are not operating on another channel.
- False or fraudulent distress calls are prohibited under law.

## ◇ Privacy

- Information overheard, but not intended for you, cannot lawfully be used in any way.
- Indecent or profane language is prohibited.

## ◇ Radio licenses

### (1) SHIP STATION LICENSE

You may require a current radio station license before using the transceiver. It is unlawful to operate a ship station which is not licensed, but required to be.

If required, contact your dealer or the appropriate government agency for a Ship-Radiotelephone license application. This government-issued license states the call sign which is your craft's identification for radio purposes.

### (2) OPERATOR'S LICENSE

A Restricted Radiotelephone Operator Permit is the license most often held by small vessel radio operators when a radio is not required for safety purposes.

If required, the Restricted Radiotelephone Operator Permit must be posted or kept with the operator. If required, only a licensed radio operator may operate a transceiver.

However, non-licensed individuals may talk over a transceiver if a licensed operator starts, supervises, ends the call and makes the necessary log entries.

A current copy of the applicable government rules and regulations is only required to be on hand for vessels in which a radio telephone is compulsory. However, even if you are not required to have these on hand it is your responsibility to be thoroughly acquainted with all pertinent rules and regulations.

**NOTE:** Even though the transceiver is capable of operation on VHF marine channels 3, 21, 23, 61, 64, 81, 82 and 83, according to FCC regulations these simplex channels cannot be lawfully used by the general population in USA waters.

# ICOM INSTRUCTIONS ①

## REMOTE-CONTROL MICROPHONE

### HM-195B

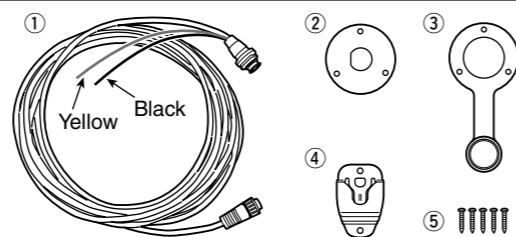
### HM-195SW

Thank you for purchasing the HM-195B/HM-195SW REMOTE-CONTROL MICROPHONE. The COMMANDMICIV™ is a remote control microphone for use with the IC-M423/IC-M424 and future products. Carefully read the instruction manual of the transceiver you will use, before connecting and operating. These instructions describe only the remote-control operations.

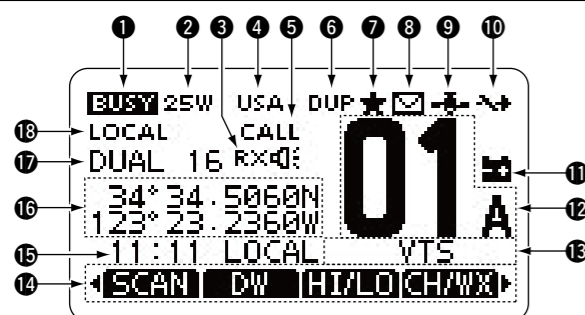
## 1 Supplied accessories

Accessories included with the HM-195:	Qty.
① Connection cable (OPC-1540*: 6 m; 20 ft)	1
② Mounting base	1
③ Connector cap	1
④ Microphone hanger	1
⑤ Screws (M3 × 16 mm; tapping)	5

\*The OPC-1540 has external speaker leads, as illustrated to the right. (Yellow: Speaker (+), Black: Speaker (-))



## 2 Function display

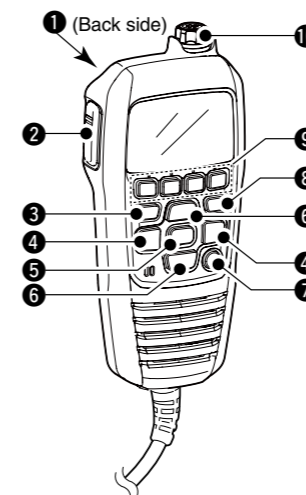


- 1 BUSY/TRANSMIT ICON (See 6)**
  - "BUSY" appears when receiving a signal or when the squelch is open.
  - "TX" appears while transmitting.
- 2 POWER ICON (See 6)**
  - "25W" appears when high power is selected.
  - "1W" appears when low power is selected.
- 3 RX SPEAKER ICON (See 27)**
  - Appears while in the RX Speaker mode.
- 4 CHANNEL GROUP ICON (See 5)**
  - A selected channel group icon, U.S.A. "USA," International "INT," Canadian "CAN," ATIS "ATIS" or DSC "DSC" appears, depending on the transceiver version.
  - "WX" appears when the weather channel is selected.
- 5 CALL CHANNEL ICON (See 5)**
  - Appears when the Call channel is selected.
- 6 DUPLEX ICON (See 5)**
  - Appears when a duplex channel is selected.
- 7 TAG CHANNEL ICON (See 13)**
  - Appears when a TAG (favorite) channel is selected.
- 8 MAIL ICON (See 23)**
  - Blinks when there is an unread message.
- 9 GPS ICON**
  - Stays ON when the GPS receiver is activated and valid position data is received.
  - Blinks when invalid position data is being received.
- 10 SWITCH ICON (See 25)**
  - Appears when the "CH 16 SWITCH" in DSC Settings is set to "OFF."
- 11 LOW BATTERY ICON**
  - Blinks when the battery voltage drops to approximately 10 V DC or less.

- 12 CHANNEL NUMBER READOUT**
  - Shows the selected operating channel number.
  - When a simplex channel is selected, "A" appears.
- 13 CHANNEL NAME FIELD**
  - The channel name appears, if programmed. (See 8)
- 14 KEY ICONS (See 4)**
  - Shows the programmed function of the softkeys on the front panel.
- 15 TIME ZONE INDICATOR**
  - Shows the current time when a GPS receiver is connected, or the time is manually programmed.
  - When the GPS current time is invalid, "??" will blink every 2 seconds instead of the current time. After 23.5 hours has passed, "NO TIME" will appear.
  - "??" will blink every 2 seconds instead of the current time, after 4 hours have passed from when the time was manually programmed. The manually programmed time is held for only 23.5 hours, and after that, "NO TIME" will appear.
  - "LOCAL" appears when the offset time is set.
  - "MNL" appears when the time is manually programmed.
  - "UTC" appears when the GGA, GLL or GNS GPS sentence format is included in the GPS signal.
  - The date information appears when the RMC GPS sentence format is included in the GPS signal.
  - "NO TIME" appears when no GPS receiver is connected, and no time is manually input.
- 16 POSITION INDICATOR**
  - Shows the current position when a GPS receiver is connected, or the position is manually programmed.
  - When the GPS position is invalid, "??" may blink every 2 seconds instead of position. The last position is held for only 23.5 hours, and after that, "NO POSITION" will appear.
  - "??" will blink every 2 seconds instead of position, after 4 hours have passed from when the position is manually programmed. The manually programmed position is held for only 23.5 hours, and after that, "NO POSITION" will appear.
  - "NO POSITION" appears when no GPS receiver is connected, and no position is manually input.
- 17 SCAN INDICATOR**
  - "SCAN 16" appears during a Priority scan; "SCAN" appears during a Normal scan. (See 14)
  - "DUAL 16" appears during Dualwatch; "TRI 16" appears during Tri-watch. (See 15)
- 18 LOCAL ICON (See 6)**
  - Appears when the Attenuator function is turned ON.
  - \*Only U.S.A. and Australian version transceivers.

## 3 Panel description

The HM-195 remotely controls the transceiver and provides an Intercom function.



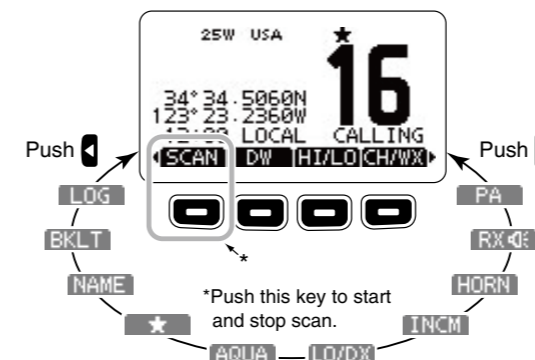
- 1 DISTRESS KEY [DISTRESS] (See 19)**
    - Hold down for 3 seconds to transmit a Distress call.
  - 2 PTT SWITCH [PTT]**
    - Hold down to transmit, release to receive. (See 6)
  - 3 MENU KEY [MENU] (See 30)**
    - Push to enter or exit the Menu screen.
  - 4 LEFT AND RIGHT KEYS [◀]/[▶]**
    - Push to switch to the previous or next key function that is assigned to the softkeys. (See 4)
    - Push to select the desired character or number in the table while in the channel name, position programming mode, and so on. (See 8, 16, 17)
  - 5 ENTER KEY [ENT] (See 8, 10, 16)**
    - Push to set the input data, selected item, and so on.
  - 6 UP AND DOWN/CHANNEL SELECT KEYS [▲•CH]/[▼•CH]**
    - Push to select the operating channels, Menu items, Menu settings, and so on. (See 5, 30)
    - Push to check TAG channels, change the scanning direction or manually resume a scan. (See 14)
  - 7 CHANNEL 16/CALL CHANNEL KEY [16/C]**
    - Push to select Channel 16. (See 5)
    - Hold down for 1 second to select the Call channel. (See 5)
      - "CALL" appears when the Call channel is selected.
      - When the Call channel is selected, hold down for 3 seconds to enter Call channel programming mode. (See 7)
  - 8 CLEAR KEY [CLEAR] (See 8, 16, 30)**
    - Push to cancel the entered data, or to exit the Menu screen.
  - 9 SOFTKEYS**
    - Desired functions can be assigned in the Menu screen. See the transceiver's manual for details.
  - 10 VOLUME AND SQUELCH SWITCH/POWER SWITCH [VOL/SQL•PWR]**
    - When the power is OFF, hold down for 1 second to turn ON power. (See 6)
    - Hold down for 1 second to turn OFF power.
    - When the power is ON, push to enter the volume level adjustment mode.\* (See 10)
      - Each push of this switch toggles the mode between the volume level adjustment, squelch threshold level adjustment, operating channel selection and the LCD and key backlight brightness adjustment, if assigned.
      - Rotate to adjust the volume level.\* (See 10)
- \*The desired function can be assigned in the Menu screen.

## 4 Softkey function

Various functions can be assigned to the softkeys. When a key function is assigned, the key icon is displayed above the softkey, as shown below. Consult your Icom dealer for details concerning which functions are preprogrammed into the keys.

### ◆ Softkey function selection

When "◀" or "▶" is displayed beside the key icon, pushing [◀] or [▶] sequentially shows the previous or next key function that is assigned to the softkey.



▨ The order of the key icons may differ, depending on the pre-programming.

▨ **Except for a U.S.A. and Australian version transceiver:**

- [CHAN] appears instead of [CH/WX].
- [LOWDX] does not appear.

## 5 Channel selection

### ◆ Channel 16

- ① Push [16/C] to select Channel 16.
- ② Push [CH/WX]\* to return to the screen displayed before you selected Channel 16, or push [▲](CH) or [▼](CH) to select an operating channel.



### ◆ Call channel

- ① Hold down [16/C] for 1 second to select the Call channel of the selected channel group.
- ② Push [CH/WX]\* to return to the screen displayed before you selected Call channel, or push [▲](CH) or [▼](CH) to select an operating channel.



\*[CHAN] appears except for a U.S.A. and Australian version transceiver.

### ◆ Weather channels

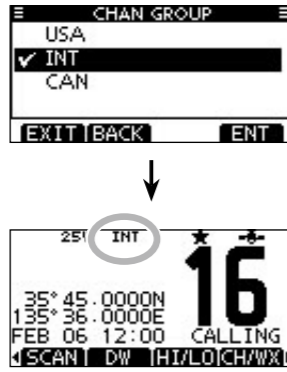
- (U.S.A. and Australian version transceiver only.)
- ① Push [CH/WX] once or twice to select a weather channel.
    - "WX" appears when a weather channel is selected.
    - "WX" with a star icon appears when the Weather Alert function is in turned ON.
  - ② Push [▲](CH) or [▼](CH) to select a channel.



## 5 Channel selection (Continued)

### ◇ Channel group selection

- Push [MENU].
- Rotate Dial or push [▲]/[▼] to select "Radio Settings," and then push [ENT].
- Rotate Dial or push [▲]/[▼] to select "CHAN Group," and then push [ENT].
- Rotate Dial or push [▲]/[▼] to select the desired channel group, and then push [ENT].
  - The selectable channel groups may differ, depending on the transceiver version.
- Push [EXIT] to exit. When the International channel group is selected.
- Push [▲](CH) or [▼](CH) to select a channel.
  - "DUP" appears when a duplex channel is selected.
  - "A" appears when a simplex channel is selected.



## 6 Receiving and transmitting

- Hold down [PWR] to turn ON the power.
- Set the audio and squelch levels. (See 10, 11)
  - First, open the squelch. Then, adjust the audio output level. After that, adjust the squelch level until the noise just disappears.
- Change the channel group. (See 5)
- Push [▲](CH) or [▼](CH) to select a channel. (See 5)
  - When receiving a signal, "BUSY" appears and audio is heard.
  - Further adjustment of the volume level may be necessary.
- Push [LO/DX] to turn the receive Attenuator function ON or OFF, if necessary.
  - Only U.S.A. and Australian version transceivers.
  - "LOCAL" appears when the receive Attenuator function is ON.
- Push [HI/LO] to select the output power, if necessary.
  - "25W" appears when high power is selected, and "1W" appears when low power is selected.
  - Choose low power for short range communications, choose high power for longer distance communications.
  - Some channels are for only low power.
- Hold down [PTT] to transmit, then speak at your normal voice level.
  - "TX" appears.
  - Channel 70 cannot be used for transmission other than DSC.
- Release [PTT] to receive.

### ✓ Information

The Noise Cancel function reduces random noise components in the transmit and/or receive signal. See the transceiver's manual for details.

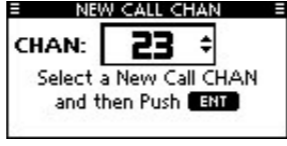
Simplex channels, 3, 21, 23, 61, 64, 81, 82 and 83 CAN-NOT be lawfully used by the general public in U.S.A. waters.

**IMPORTANT:** To maximize the readability of your transmitted signal, pause a few seconds after pushing [PTT], hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth and speak at a normal voice level.

### ✓ NOTE for the TOT (Time-out Timer) function

The TOT function inhibits continuous transmission beyond a preset time period after the transmission starts. 10 seconds before transmission is cutoff, a beep sounds to indicate the transmission will be shut down and "TOT" appears in the channel name field. Transmission is not possible for 10 seconds after this shut down.

## 7 Call channel programming

- Select the desired channel group to be programmed. (See 5)
- Hold down [16/C] for 1 second to select the Call channel of the selected channel group.
  - "CALL" and the Call channel number appear.
- Hold down [16/C] again for 3 seconds (until a long beep changes to 2 short beeps) to enter the Call channel programming mode.
- Rotate Dial or push [▲](CH) or [▼](CH) to select a channel.
 
- Push [ENT] to program the displayed channel as the Call channel.
  - Push [CLEAR] to cancel.

## 8 Channel name programming

Each channel can be assigned a unique alphanumeric ID of up to 10 characters. Capital letters, 0 to 9, some symbols (! " # \$ % & ' ( ) \* + , - . / \ ] ^ \_ ; : < = > ?) and a space can be input.

- Push [▲](CH) or [▼](CH) to select a channel.
  - First, cancel the Dualwatch, Tri-watch or Scan function, if activated.
- Push [NAME] to open the channel name programming screen.
  - A black box is displayed on the first character.



- Enter the desired channel name in the following manner:
  - Select a desired character using Dial, or [▲]/[▼]/[◀]/[▶].
  - Push [ENT] to set it.
  - To move the cursor, select either arrow, "←" or "→," then push [ENT].
  - Select "SPACE," then push [ENT] to input a space.
  - Select "DELETE," then push [ENT] to delete a character.
  - Push [CLEAR] to cancel and return to the previous screen.
- Repeat step 3 to input all characters.



- Push [◀], [▶], [▲] or [▼] to select "FINISH," then push [ENT] to set the name and return to the previous screen.

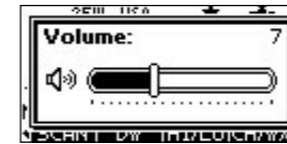
## 9 AquaQuake water draining function

The AquaQuake water draining function clears water away from the speaker grill. Without this function, water may muffle the sound coming from the speaker. A buzzing sound is heard when this function is activated.

- While holding down [AQUA], the AquaQuake function is activated to clear water away from the speaker grill.
  - While holding down [AQUA], a low buzzing sounds to drain water, regardless of the volume level setting.
  - The HM-195's keys are disabled while the AquaQuake function is activated.

## 10 Adjusting the volume level

- Rotate [VOL/SQL](Dial), or push [VOL/SQL](Dial) one or more times to display the volume adjustment screen.
- Rotate [VOL/SQL](Dial) to adjust the volume level.
  - The HM-195 has 20 volume levels and OFF.
  - If no key operation is performed for about 5 seconds, the HM-195 sets the selected volume level, and returns to the normal mode.



- Push [ENT] to set the level, and exit the volume adjustment mode.
  - Push [CLEAR] to cancel.

The desired function can be assigned to [VOL/SQL](Dial). See the transceiver's manual for details.

## 11 Adjusting the squelch level

- Push [VOL/SQL](Dial) one or more times to display the squelch adjustment screen.
- Rotate [VOL/SQL](Dial) to adjust the squelch level.
  - The squelch is adjustable in 11 levels. OPEN is completely open; 10 is tight squelch; 1 is loose squelch.
  - If no key operation is performed for about 5 seconds, the selected squelch level is set, and returns to the normal mode.



- Push [ENT] to set the level, and exit the squelch adjustment mode.
  - Push [CLEAR] to cancel.

The desired function can be assigned to [VOL/SQL](Dial). See the transceiver's manual for details.

## 12 Adjusting the display backlight level

The function display and keys can be backlit for better visibility under low light conditions. The backlight is adjustable in 7 levels and OFF.

- Push [BKLT] to show the backlight adjustment screen. Rotate Dial to adjust the brightness of the LCD and key backlight, and then push [ENT].
  - If no key operation is performed for about 5 seconds, the HM-195 sets the selected backlight level, and returns to the normal mode.



## 13 Setting TAG channels

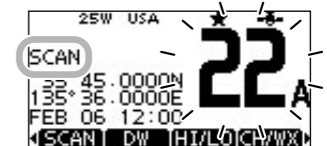
- Select the desired channel group. (See 5)
- Select the desired channel to be set as a TAG channel.
- Push [★] to set the displayed channel as a TAG channel.
  - "★" appears on the display.
- To cancel the TAG channel setting, repeat step 3.
  - "★" disappears.

### ✓ Clearing (or setting) all tagged channels

Hold down [★] for 3 seconds (until a long beep changes to 2 short beeps) to clear all TAG channel settings in the selected channel group. Repeat above procedure to set all channels as TAG channels.

## 14 Starting a scan

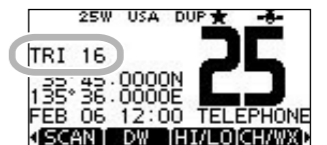
- Select Priority scan or Normal scan in the Menu screen.
  - See the transceiver's manual for details.
- Select the desired channel group. (See 5)
- Set the TAG channels. (See 13)
- Make sure the squelch is closed to start a scan.
  - Push [SCAN] to start a Priority or Normal scan.
    - "SCAN 16" appears during a Priority scan; "SCAN" appears during a Normal scan.
    - When a signal is detected, the scan pauses until the signal disappears, or resumes after pausing 5 seconds, depending on the Set mode setting. (Channel 16 is still monitored during a Priority scan.)
    - Push [▲]/[▼] to check the scanning TAG channels, change the scanning direction or manually resume the scan.
    - A beep tone sounds and "16" blinks when a signal is received on Channel 16 during a Priority scan.



- To stop the scan, push [CLEAR], or repeat step 5.

## 15 Dualwatch/Tri-watch operation

- Select Dualwatch or Tri-watch in the Menu screen.
  - See the transceiver's manual for details.
- Push [▲](CH) or [▼](CH) to select the desired operating channel.
- Push [DW] to start a Dualwatch or Tri-watch scan.
  - "DUAL 16" appears during Dualwatch; "TRI 16" appears during Tri-watch.
  - A beep tone sounds when a signal is received on Channel 16.



- To cancel Dualwatch or Tri-watch, push [DW] again.

See "Instructions 2" (16 to 21) or "Instructions 3" (22 to 30) for other functions.

**CLEAN THE HM-195 THOROUGHLY WITH FRESH WATER** after exposure to saltwater, otherwise, the keys and switch may become inoperable due to salt crystallization.

Icom Inc.

1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan

Count on us!

A-7022D-1EX

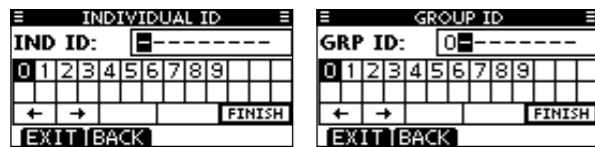
Printed in Japan

© 2012 Icom Inc.



### 16 Programming Individual/Group ID

- Enter "INDIVIDUAL ID" or "GROUP ID" in the DSC SETTINGS menu.
- Push [ADD].
  - The "INDIVIDUAL ID" or "GROUP ID" program screen is displayed.



- Enter a desired ID in the following way:
  - Select a desired number using Dial, or [▲]/[▼]/[◀]/[▶].
  - Push [ENT] or Dial to set it.
  - To move the cursor, select either arrow, "←" or "→," then push [ENT] or Dial.
  - The first digit is specified as '0' for a Group ID.
  - The first two digits are '0' for any Coast station ID.
- Repeat step ③ to enter all 9 digits.
- After entering, push [ENT] or Dial to set it.
  - The ID name programming screen is displayed.



- Enter a desired 10 digit ID name in the following way:
  - Select a desired character using Dial, or [▲]/[▼]/[◀]/[▶].
  - Push [ENT] or Dial to set it.
  - To move the cursor, select either arrow, "←" or "→," then push [ENT] or Dial.
  - Push [123] then [!\$?] then [ABC] to select a character group.
- After entering the ID name, select "FINISH" using Dial, or [▲]/[▼]/[◀]/[▶], then push [ENT] or Dial to program it.
  - The "INDIVIDUAL ID" or "GROUP ID" list screen is displayed.



- Push [MENU] to exit the MENU screen.

### 17 Deleting Individual/Group ID

- Enter "INDIVIDUAL ID" or "GROUP ID" in the DSC SETTINGS menu.
  - When no address ID is programmed, "No ID" is displayed. In this case, push [MENU] to exit the MENU screen.
- Rotate Dial or push [▲]/[▼] to select a desired ID name, then push [DEL].



- Push [OK] to delete the ID, and return to the "INDIVIDUAL ID" or "GROUP ID" list screen.
  - Push [CANCEL] to cancel it.



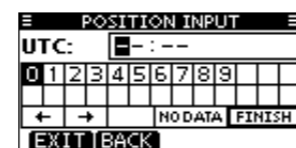
- Push [MENU] to exit the MENU screen.

### 18 Position and time programming

- Enter "POSITION INPUT" in the DSC SETTINGS menu.
- Edit your latitude and longitude position using Dial, or [▲]/[▼]/[◀]/[▶].
  - Select a desired number using Dial, or [▲]/[▼]/[◀]/[▶].
  - Push [ENT] or Dial to set it.
  - To move the cursor, select either arrow, "←" or "→," then push [ENT] or Dial.
  - Select N (North latitude) or S (South latitude) when the cursor is on the 'N' or 'S' position.
  - Select W (West longitude) or E (East longitude) when the cursor is on the 'W' or 'E' position.



- After entering the position, push [ENT] to program it.
- The UTC time programming screen is displayed, enter the UTC time in the following way:
  - Select a desired number using Dial, or [▲]/[▼]/[◀]/[▶].
  - Push [ENT] or Dial to set it.
  - To move the cursor, select either arrow, "←" or "→," then push [ENT] or Dial.



- Push [ENT] or Dial to program your position and time.
  - Return to the "DSC SETTING" screen.

### 19 Distress Call

The Distress call is automatically transmitted every 3.5 to 4.5 minutes, until an acknowledgement is received ('Call repeat' mode), or a DSC Cancel call is made (See 20).

#### ◇ Simple Call

- Confirm no Distress call is being received.
- While lifting up the key cover, hold down [DISTRESS] for 3 seconds to transmit the Distress call.
  - While holding down [DISTRESS], count down beeps sound and both the key and display backlighting blink.
  - DSC channel (Channel 70) is automatically selected and the Distress call is transmitted.



- After transmitting the call, the transceiver waits for an acknowledgment call.
  - Push [RESEND] to manually transmit the Distress repeat call.
  - Push [◀]/[▶] then push [INFO] to display the transmitted Distress call information.
  - Push [◀]/[▶] then push [PAUSE] to pause the 'Call repeat' mode; push [RESUME] to resume it.



- After receiving the acknowledgment, push [ALARM OFF] then reply using the microphone.

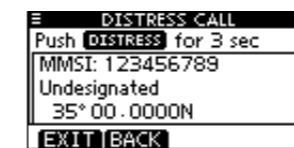
- A distress alert default contains:
  - Nature of distress : Undesignated distress
  - Position information : The latest GPS or manual input position is held for 23.5 hours, or until the power is turned OFF.

#### ◇ Regular Call

- Enter "DISTRESS CALL" in the DSC CALLS menu.
- Select the nature of the distress using Dial or [▲]/[▼], then push Dial or [ENT].
  - 'Undesignated', 'Fire', 'Explosion', 'Flooding', 'Collision', 'Grounding', 'Capsizing', 'Sinking', 'Adrift', 'Abandoning ship', 'Piracy' or 'Man Overboard' is selectable.
  - The nature of the distress is stored for 10 minutes after a selection is made.



- The Distress call confirmation screen is displayed.
  - Rotate Dial or push [▲]/[▼] to see the hidden lines.



- Hold down [DISTRESS] for 3 seconds to transmit the Distress call.
  - While holding down [DISTRESS], count down beeps sound and both the key and display backlighting blink.
  - The selected nature of the distress is stored for 10 minutes.
- After transmitting the call, the transceiver waits for an acknowledgment call.
  - Push [RESEND] to manually transmit the Distress repeat call.
  - Push [◀]/[▶] then push [INFO] to display the transmitted Distress call information.
  - Push [◀]/[▶] then push [PAUSE] to pause the 'Call repeat' mode, push [RESUME] to resume it.
- After receiving an acknowledgment call, push [ALARM OFF], then reply using the microphone.

- A distress alert contains:
  - Nature of distress : Selected in step ②.
  - Position information : The latest GPS or manual input position is held for 23.5 hours, or until the power is turned OFF.

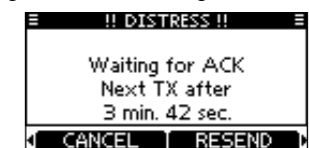
When no GPS receiver is connected, and both position and time have been manually programmed, the screen shown below appears. Edit your latitude and longitude position and UTC time as follows:



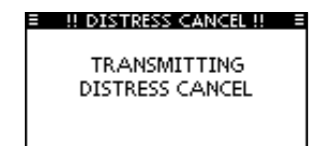
- Push [CHG], then edit your latitude and longitude position and UTC time.
  - Select a desired number using Dial, or [▲]/[▼]/[◀]/[▶].
  - Push [ENT] or Dial to set it.
  - To move the cursor, select either arrow, "←" or "→," then push [ENT] or Dial.
  - Select N (North latitude) or S (South latitude) when the cursor is on the 'N' or 'S' position.
  - Select W (West longitude) or E (East longitude) when the cursor is on the 'W' or 'E' position.

### 20 Distress Cancel Call

- While waiting for an acknowledgment call, push [CANCEL].



- Push [CONTINUE].
  - Push [BACK] to return to waiting for an acknowledgement call.
- Push [FINISH].
  - Push [EXIT] to return to waiting for an acknowledgement call.
- The Distress cancel call is transmitted.



- Channel 16 is automatically selected.
  - Report your situation using the microphone.
  - After the report, push [EXIT] to return to the normal operating mode.

## 21 Transmitting DSC calls

To ensure correct operation of the DSC function, make sure you set the squelch correctly.

### ◇ Transmitting an Individual Call

- 1 Enter "INDIVIDUAL CALL" in the DSC CALLS menu.
- 2 Select or enter the desired individual address.
- 3 Select Routine, Safety or Urgency as the desired call type.

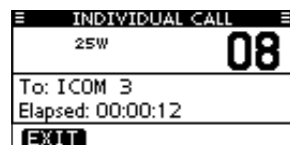
**NOTE:** When a coast station is selected in step ②, the voice channel is automatically specified by the coast station. Therefore, skip step ④ and go directly to step ⑤.

- 4 Select a desired intership channel.
- 5 A confirmation screen appears.
- 6 Push [CALL] to transmit the Individual call.
- 7 Standby on Channel 70 until an acknowledgement is received.
- 8 When the acknowledgement 'Able to comply' is received, beeps sound and the screen below is displayed.



Push [ALARM OFF] to stop the beeps, and then select the intership channel specified in step ④.

- A different intership channel will be automatically selected if the station you called cannot use the channel.
- Reply using the microphone. And go to step ⑨.



Or, when the acknowledgement 'Unable to comply' is received, beeps sound.

Push [ALARM OFF] to stop the beeps. Then push [EXIT] to return to the operating channel (before you entered the MENU screen).

- 9 After communicating, push [EXIT] to return to the normal operating mode.

### ◇ Transmitting an Individual Acknowledgement

#### Quick ACK:

- 1 When an Individual call is received, beeps sound. Push [ALARM OFF] to stop the beeps.
- 2 Push [ACK].
- 3 Select one of three options, Able to Comply, Unable to Comply or Propose New Channel, and then push [ENT].



- 4 The Individual ACK confirmation screen is displayed.
- 5 Push [CALL] to transmit the acknowledgement call.
- 6 Reply to the call using the microphone.
- 7 Push [EXIT] to return to the normal operating mode.

#### Manual ACK:

- 1 Enter "INDIVIDUAL ACK" in the DSC CALLS menu.
  - When no Individual call has been received, the "Individual ACK" item will not be displayed.
- 2 Select a desired individual address or ID code to reply to, using Dial or [▲]/[▼], then push [ENT].
- 3 Perform steps ③ to ⑦, as described in "Quick ACK:" above.

### ◇ Transmitting a Group Call

- 1 Enter "GROUP CALL" in the DSC CALLS menu.
- 2 Select or enter the desired group address.
- 3 Select a desired intership channel.
- 4 A confirmation screen appears.
- 5 Push [CALL] to transmit the Group call.
- 6 Announce the information using the microphone.
- 7 After the announcement, push [EXIT] to return to the normal operating mode.

### ◇ Transmitting an All Ships Call

- 1 Enter "ALL SHIPS CALL" in the DSC CALLS menu.
- 2 Select a desired category.
  - The selectable category may differ according to the connected transceiver setting.
- 3 Select a desired traffic channel.
- 4 A confirmation screen appears.
- 5 Push [CALL] to transmit the All Ships call.
- 6 Announce the message using the microphone.
- 7 After the announcement, push [EXIT] to return to the normal operating mode.

### ◇ Transmitting a Position Request Call

- 1 Enter "POSITION REQUEST" in the DSC CALLS menu.
- 2 Select or enter the desired individual address.
- 3 A confirmation screen appears.
  - Confirm the call contents.
- 4 Push [CALL] to transmit the Position Request Call.
  - If Channel 70 is busy, the transceiver stands by until the channel becomes clear.
- 5 When the acknowledgement call is received, beeps sound.
- 6 Push [ALARM OFF] to stop the beeps, and then push [EXIT] to return to the normal operating mode.

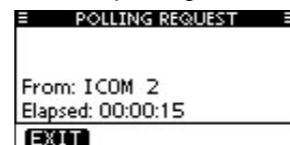


### ◇ Transmitting a Position Report Call

- 1 Enter "POSITION REPORT" in the DSC CALLS menu.
- 2 Select or enter the desired individual address.
  - Confirm the call contents.
- 4 Push [CALL] to transmit the Position Report Call.
  - If Channel 70 is busy, the transceiver stands by until the channel becomes clear.
- 5 After the Position Report Call has been transmitted, the transceiver automatically returns to the normal operating mode.

### ◇ Transmitting a Polling Request Call

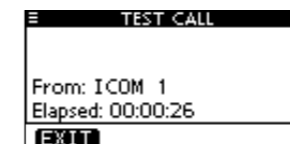
- 1 Enter "POLLING REQUEST" in the DSC CALLS menu.
- 2 Select or enter the desired individual address.
- 3 A confirmation screen appears.
  - Confirm the call contents.
- 4 Push [CALL] to transmit the Polling Request Call.
  - If Channel 70 is busy, the transceiver stands by until the channel becomes clear.
- 5 When the acknowledgement call is received, beeps sound.
- 6 Push [ALARM OFF] to stop the beeps, and then push [EXIT] to return to the normal operating mode.



## 21 Transmitting DSC calls (Continued)

### ◇ Transmitting a Test Call

- 1 Enter "TEST CALL" in the DSC CALLS menu.
- 2 Select or enter the desired individual address.
- 3 A confirmation screen appears.
- 4 Push [CALL] to transmit the Test call.
- 5 When the acknowledgement call is received, beeps sound.
- 6 Push [ALARM OFF] to stop the beeps, and then push [EXIT] to return to the normal operating mode.



### ◇ Transmitting a Test Acknowledgement Call

#### Quick ACK:

- 1 When a Test call is received, beeps sound. Push [ALARM OFF] to stop the beeps.
- 2 Push [ACK].
  - Push [INFO] to display the Test call information. Push [BACK] to return to the previous screen, or push [ACK].
- 3 The Test ACK confirmation screen is displayed. Push [CALL] to transmit the acknowledgement call.
- 4 After transmitting the acknowledgement call, the transceiver returns to the normal operating mode.

#### Manual ACK:

- 1 Enter "TEST ACK" in the DSC CALLS menu.
  - If no Test call has been received, the "TEST ACK" item will not be displayed.
- 2 Select a desired Test call to reply to, using Dial or [▲]/[▼], then push Dial or [ENT].
- 3 The Test ACK confirmation screen is displayed. Push [CALL] to transmit the acknowledgement call.
- 4 After transmitting the acknowledgement call, the transceiver returns to the normal operating mode.

### ◇ Transmitting a Position Reply Call

#### Quick Reply:

- 1 When a Position Request call is received, beeps sound. Push [ALARM OFF] to stop the beeps.



- 2 Push [ACK].
  - Push [INFO] to display the Position Request call information. Push [BACK] to return to the previous screen, or push [ACK].
- 3 The Position Reply confirmation screen is displayed. Push [CALL] to transmit the reply call.
- 4 After transmitting the reply call, the transceiver returns to the normal operating mode.

#### Manual Reply:

- 1 Enter "POSITION REPLY" in the DSC CALLS menu.
  - If no Position Request call has been received, the "POSITION REPLY" item will not be displayed.
- 2 Select a desired Position Request call to reply to.
- 3 The Position Reply call confirmation screen is displayed. Push [CALL] to transmit the acknowledgement call.
- 4 After transmitting the reply call, the transceiver returns to the normal operating mode.

### ◇ Transmitting a Position Report Reply Call

#### Quick Reply:

- 1 When a Position Report Request call is received, beeps sound. Push [ALARM OFF] to stop the beeps.



- 2 Push [ACK].
  - Push [INFO] to display the Position Report Request call information. Push [BACK] to return to the previous screen, or push [ACK].
- 3 The Position Report Reply confirmation screen is displayed. Push [CALL] to transmit the reply call.
- 4 After transmitting the reply call, the transceiver returns to the normal operating mode.

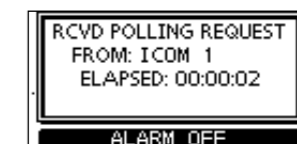
#### Manual Reply:

- 1 Enter "POSITION REPORT REPLY" in the DSC CALLS menu.
  - If no Position Report Request call has been received, the "POSITION REPORT REPLY" item will not be displayed.
- 2 Select a desired Position Report Request call to reply to, using Dial or [▲]/[▼], then push Dial or [ENT].
- 3 The Position Report Reply call confirmation screen is displayed. Push [CALL] to transmit the acknowledgement call.
- 4 After transmitting the reply call, the transceiver returns to the normal operating mode.

### ◇ Transmitting a Polling Reply Call

#### Quick Reply:

- 1 When a Polling Request call is received, beeps sound. Push [ALARM OFF] to stop the beeps.



- 2 Push [ACK].
  - Push [INFO] to display the Polling Request call information. Push [BACK] to return to the previous screen, or push [ACK].
- 3 The Polling Reply confirmation screen is displayed. Push [CALL] to transmit the reply call.
- 4 After transmitting the reply call, the transceiver returns to the normal operating mode.

#### Manual Reply:

- 1 Enter "POLLING REPLY" in the DSC CALLS menu.
  - If no Polling Request call has been received, the "POLLING REPLY" item will not be displayed.
- 2 Select a desired Polling Request call to be replied.
- 3 The Polling Reply call confirmation screen is displayed. Push [CALL] to transmit the acknowledgement call.
- 4 After transmitting the reply call, the transceiver returns to the normal operating mode.

See "Instructions ①" (1 to 15) or "Instructions ③" (22 to 30) for other functions.

Icom Inc.

1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan

Count on us!

A-7022D-2EX

Printed in Japan

© 2012 Icom Inc.

**22 Receiving DSC calls**

◇ **Receiving a Distress Call**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- ② Push a softkey to select your desired action.



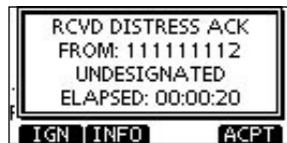
**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACPT]**  
 Push to accept the call, then push [CH 16] to switch the operating channel to Channel 16. After that, monitor it, as a coast station may require assistance.

◇ **Receiving a Distress Acknowledgement**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- ② Push a softkey to select your desired action.



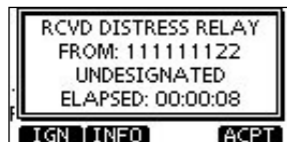
**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACPT]**  
 Push to accept the call, then push [CH 16] to switch the operating channel to Channel 16. After that, monitor it, as a coast station may require assistance.

◇ **Receiving a Distress Relay Call**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- ② Push a softkey to select your desired action.



**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACPT]**  
 Push to accept the call, then push [CH 16] to switch the operating channel to Channel 16. After that, monitor it, as a coast station may require assistance.

◇ **Receiving a Distress Relay Acknowledgement**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- ② Push a softkey to select your desired action.



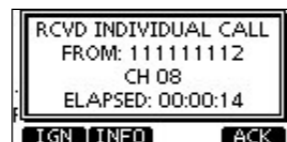
**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACPT]**  
 Push to accept the call, then push [CH 16] to switch the operating channel to Channel 16. After that, monitor it, as a coast station may require assistance.

◇ **Receiving an Individual Call**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- If [ALARM OFF] is not pushed within 2 minutes, the next screen may appear, depending on the received Category.
- ② Push a softkey to select your desired action.



**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACK]**  
 Push to display the "INDIVIDUAL ACK" screen to reply to the Call, and select the channel specified by the calling station for voice communication, depending on your situation. See 21 for details of the Individual Acknowledgement procedure.

When "INDIVIDUAL ACK" is set to "Auto ACK (Unable)," the transceiver automatically replies to the Call. In that case, both the TX and RX calls are stored in the Transmitted and Received Call Logs.

**22 Receiving DSC calls (Continued)**

◇ **Receiving a Group Call**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- If [ALARM OFF] is not pushed within 2 minutes, the next screen may appear, depending on the received Category.
- ② Push a softkey to select your desired action.



**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACPT]**  
 Push to monitor the channel specified by the calling station for its announcement.

◇ **Receiving an All Ships Call**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- If [ALARM OFF] is not pushed within 2 minutes, the next screen may appear, depending on the received Category.
- ② Push a softkey to select your desired action.



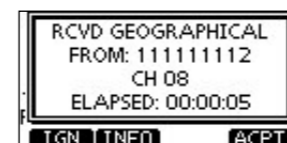
**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACPT]**  
 Push to monitor the channel specified by the calling station for its announcement.

◇ **Receiving a Geographical Area Call**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- If [ALARM OFF] is not pushed within 2 minutes, the next screen may appear, depending on the received Category.
- ② Push a softkey to select your desired action.



**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

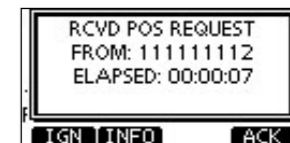
**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACPT]**  
 Push to monitor the channel specified by the calling station for its announcement.

When no GPS receiver is connected, or if there is a problem with the connected receiver, all Geographical Area Calls are received, regardless of your position.

◇ **Receiving a Position Request Call**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- If [ALARM OFF] is not pushed within 2 minutes, the next screen may appear, depending on the received Category.
- ② Push a softkey to select your desired action.



**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACK]**  
 Push to display the "POSITION REPLY" screen and send a reply to the Call. (See 21)

When "POSITION ACK" is set to "Auto TX," the transceiver automatically replies to the Call. In that case, both the TX and RX calls are stored in the Transmitted and Received Call Logs.

◇ **Receiving a Position Report Call**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- If [ALARM OFF] is not pushed within 2 minutes, the next screen may appear, depending on the received Category.
- ② Push a softkey to select your desired action.

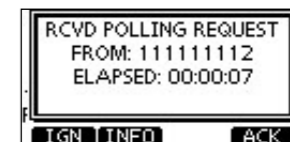


**[EXIT]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

◇ **Receiving a Polling Request call**

- ① Push [ALARM OFF] to stop the alarm and the blinking back-light.
- If [ALARM OFF] is not pushed within 2 minutes, the next screen may appear, depending on the received Category.
- ② Push a softkey to select your desired action.



**[IGN]**  
 Push to ignore the Call and return to the normal operating mode.

**[INFO]**  
 Push to display the Received call information. (See 23)

**[ACK]**  
 Push to display the "POLLING REPLY" screen to reply to the Call. (See 21)

When "POSITION ACK" is set to "Auto TX," the transceiver automatically replies to the Call. In that case, both the TX and RX calls are stored in the Transmitted and Received Call Logs.

## 22 Receiving DSC calls (Continued)

### ◇ Receiving a Test Call

- 1 Push [ALARM OFF] to stop the alarm and the blinking back-light.
  - If [ALARM OFF] is not pushed within 2 minutes, the next screen may appear, depending on the received Category.
- 2 Push a softkey to select your desired action.



#### [IGN]

Push to ignore the Call and return to the normal operating mode.

#### [INFO]

Push to display the Received call information. (See 23)

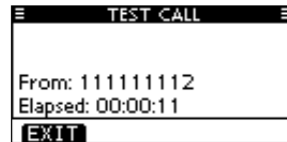
#### [ACK]

Push to display the "TEST ACK" screen to reply to the Call. (See 21)

When "TEST ACK" is set to "Auto TX," the transceiver automatically replies to the Call. In that case, both the TX and RX calls are stored in the Transmitted and Received Call Logs.

### ◇ Receiving a Test Acknowledgement Call

- 1 Push [ALARM OFF] to stop the alarm and the blinking back-light.
  - If [ALARM OFF] is not pushed within 2 minutes, the next screen may appear, depending on the received Category.
- 2 Push [EXIT] to return to the normal operating mode.



## 23 Received Call Log

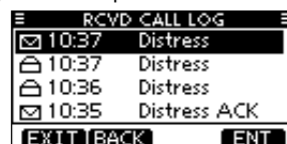
The transceiver automatically stores up to 50 distress messages and 50 other messages, and they can be used as a supplement to your logbook.

• While in the normal operating mode, "✉" blinks in the upper right corner of the LCD when there is an unread message.

- 1 Push [LOG] to enter "RCVD CALL LOG" in the DSC CALLS menu, or you can enter it through the Menu screen.
- 2 Select "Distress" or "Others."
  - The Distress messages are stored in "Distress."
  - The messages other than the Distress are stored in "Others."
  - "✉" appears when there are unread messages.
  - "☑" appears when there are no unread messages.
  - No icon appears when there are no messages.



- 3 Select the desired message.
  - The message in the unopened file has not been read.



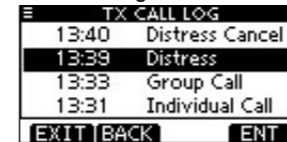
When "Distress" is selected in step ②.

- 4 Rotate Dial to scroll the message contents.
- 5 To delete the displayed message, push [DEL].
  - The confirmation screen appears, then push [OK] to delete.
- 6 Push [EXIT] to return to the normal operating mode.

## 24 Transmitted Call Log

The transceiver automatically stores up to 50 transmitted calls, and the logs can be used as a supplement to your logbook.

- 1 Enter "TX CALL LOG" in the DSC CALLS menu.
- 2 Select the desired message.



- 3 Rotate Dial to scroll the message contents.
- 4 To delete the displayed message, push [DEL].
  - The confirmation screen appears, then push [OK] to delete.
- 5 Push [EXIT] to return to the normal operating mode.

## 25 DSC Settings

### ◇ Automatic Acknowledgement

- 1 Enter either "INDIVIDUAL ACK," "POSITION ACK" or "TEST ACK" in the DSC Settings menu.
- 2 Rotate Dial to select "Auto TX" or "Manual TX," then push [ENT].
  - Push [BACK] to cancel and return to the DSC Settings menu.
- 3 Push [EXIT] to return to the normal operating mode.

### ◇ Channel 16 Switch function

- 1 Enter "CH 16 SWITCH" in the DSC Settings menu.
- 2 Rotate Dial to set the Channel 16 Switch function to "Auto (No Delay)," "10 Second Delay" or "OFF," then push [ENT].
  - Push [BACK] to cancel and return to the DSC Settings menu.
- 3 Push [EXIT] to return to the normal operating mode.

### ◇ DSC Data Output

- 1 Enter "DSC DATA OUTPUT" in the DSC Settings menu.
- 2 Rotate Dial to set the DSC Data Output function to "All Station," "List Station" or "OFF," then push [ENT].
  - Push [BACK] to cancel and return to the DSC Settings menu.
- 3 Push [EXIT] to return to the normal operating mode.

### ◇ Alarm

- 1 Enter "ALARM" in the DSC Settings menu.
- 2 Rotate Dial to select the status, then push [ENT].
  - Push [BACK] to cancel and return to the DSC Settings menu.
  - "Safety," "Routine," "Warning," "Self-Terminate" and "Discrete" are selectable. (default: ON)
- 3 Rotate Dial to set the Alarm setting to "ON" or "OFF."
- 4 Push [EXIT] to return to the normal operating mode.

### ◇ Channel 70 Squelch level

- 1 Enter "CH 70 SQL LEVEL" in the DSC Settings menu.
- 2 Rotate Dial to adjust the squelch level until the noise just disappears, then push [ENT].
  - Push [BACK] to cancel and return to the DSC Settings menu.
- 3 Push [EXIT] to return to the normal operating mode.

### ◇ DSC Loop Test

- 1 Enter "DSC LOOP TEST" in the DSC Settings menu.
- 2 Push [ENT] to start the DSC loop test.
  - Push [BACK] to cancel and return to the DSC Settings menu.
  - When the transmit DSC and receive DSC signals are matched, "OK" appears.
- 3 Push [EXIT] to return to the normal operating mode.

If "NG" appears in step ②, either or both TX and RX DSC circuits has a problem. In that case, you will have to send the transceiver to your nearest dealer for repair.

## 26 Intercom operation

- 1 Push [INCM] to enter the Intercom mode.
- 2 Hold down [INCM CALL] to sound the intercom beeps.
  - The transceiver and the command microphone sound beeps while holding down [INCM CALL].
  - "CALL" appears.
- 3 After releasing [INCM CALL], hold down [PTT] and speak into the microphone at a normal voice level.
  - "TALK" appears on the caller's display, or "LSTN" appears on the listener's display.
  - To adjust the HM-195's intercom volume level, rotate [VOL/SQL](Dial) on the HM-195.
- 4 After releasing [PTT] you can hear the response through the speaker.



On the caller's display



On the listener's display

- 5 To return to the normal operating mode, push [EXIT].

## 27 RX Speaker function

- 1 Push [RX SP] to enter the RX Speaker mode.
  - The RX Speaker volume level adjustment screen is displayed.



- 2 Rotate Dial or push [▲]/[▼]/[◀]/[▶] to adjust the RX Speaker volume level, and then push [ENT].
  - "RX SP" appears.
- 3 To return to normal operating mode, push [RX SP].
  - "RX SP" disappears.

## 28 PA (Public Address) function

- 1 Push [PA] to enter the Public Address mode.
- 2 Hold down [PTT] and speak at a normal voice level.
  - While holding down [PTT], the screen below is displayed.
  - To adjust the PA volume level, rotate Dial.



- 3 Push [EXIT] to return to normal operating screen.

## 29 Horn function

- 1 Push [HORN] to enter the Horn mode.
- 2 Hold down [HORN] to sound a horn.
  - While holding down [HORN], the horn sounds, and the screen below is displayed.
  - To adjust the horn volume level, rotate Dial.



- 3 Push [EXIT] to return to the normal operating screen.

## 30 Menu screen operation

The Menu screen is used to change the transceiver's functions and the microphone's own functions, send DSC calls or show the programmed MMSI and ATIS\*1 codes and GPS information\*2.

\*1 Appears only when the transceiver is the Dutch or German version.

\*2 Appears only when a GPS receiver compatible with NMEA0183 ver. 2.0 or 3.01 is connected to the transceiver.

These instructions are for only the microphone's own functions. Refer to the transceiver's manual for the settings of the other functions. (Some functions cannot be selected from the HM-195.)

### ◇ Entering the Menu screen and operation

- 1 Push [MENU].
- 2 Rotate Dial or push [▲]/[▼] to select the root item, and then push [ENT].
- 3 Rotate Dial or push [▲]/[▼] to select the desired item, and then push [ENT].
- 4 Rotate Dial or push [▲]/[▼] to select the option, and then push [ENT] to set it.
- 5 Push [EXIT] to exit the Menu screen.
  - Push [CLEAR] or [BACK] to return to the previous screen.

#### • Backlight

The function display and keys of the HM-195 can be backlit for better visibility under low light conditions.

The backlight can be set to 7 levels and OFF. (Default: 7)

#### • Display contrast

The contrast of the HM-195's function display can be adjusted in 8 steps.

Level 1 is the lowest contrast, and level 8 is the highest contrast. (Default: 5)

#### • Key Beep

You can turn OFF beep tones for silent operation, or you can turn ON the tones to have confirmation beeps sound when a key is pushed. (Default: ON)

#### • COMMANDMIC Speaker

The HM-195's external speaker can be used instead of the internal speaker. (Default: Internal Speaker)

Regardless of this setting, the transceiver's microphone speaker is ON.

See "Instructions ①" (1 to 15) or "Instructions ②" (16 to 21) for other functions.

Icom Inc.

1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan

Count on us!

A-7022D-3EX

Printed in Japan

© 2012 Icom Inc.