

ICOM INSTRUCTIONS ①

REMOTE-CONTROL MICROPHONE

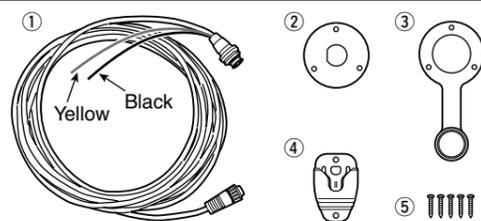
HM-195 series

Thank you for choosing this Icom product. READ ALL INSTRUCTIONS carefully and completely before using this product. The COMMANDMIC™ is a remote control microphone for use with the IC-M323/IC-M324/IC-M423/IC-M424 series, IC-M400BB, IC-M506 series, and future products. These instructions describe only the remote-control operations.

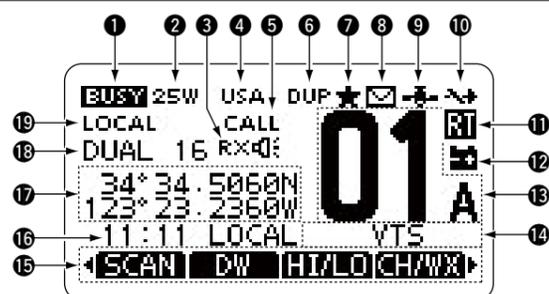
1 Supplied accessories

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; self-tapping)	5

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



2 Function display

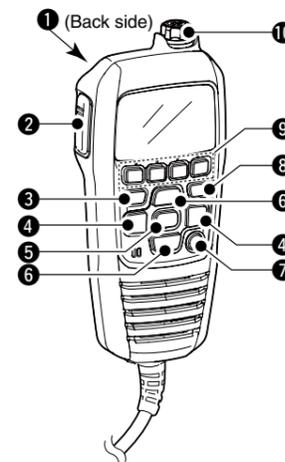


- BUSY/TRANSMIT ICON** (See 6)
 - "BUSY" appears when receiving a signal or when the squelch is open.
 - "TX" appears while transmitting.
- POWER ICON** (See 6)
 - "25W" appears when high power is selected.
 - "1W" appears when low power is selected.
- RX SPEAKER ICON** (See 23)
 - Appears while in the RX Speaker mode.
- CHANNEL GROUP ICON** (See 5)
 - Selected channel group icons, USA "USA," International "INT," Canadian "CAN," ATIS "ATIS" or DSC "DSC" appears, depending on the transceiver version.
 - "WX" appears when the weather channel is selected.*
 - *For only USA and Australian version.
- CALL CHANNEL ICON** (See 5)
 - Appears when the Call channel is selected.
- DUPLEX ICON** (See 5)
 - Appears when a duplex channel is selected.
- FAVORITE CHANNEL ICON** (See 13)
 - Appears when a Favorite (TAG) channel is selected.
- MAIL ICON** (See 24)
 - Blinks when there is an unread message.
- GPS ICON**
 - Stays ON when the GPS receiver is activated and valid position data is received.
 - Blinks when invalid position data is being received.
- SWITCH ICON** (See 26)
 - Appears when the "CH AUTO SWITCH" or "CH 16 SWITCH" in DSC Settings is set to 'OFF'.
- RT (Radio Telephone) ICON** (See 24) (For only USA version)
 - Appears while receiving or transmitting a signal, and when the channel is changed.

- LOW BATTERY ICON**
 - Blinks when the battery voltage drops to approximately 10 V DC or less.
- CHANNEL NUMBER READOUT**
 - Shows the selected operating channel number.
 - When a simplex channel is selected, "A" appears.
- CHANNEL NAME FIELD**
 - The channel name appears, if entered. (See 8)
- KEY ICONS** (See 4)
 - Shows the assigned function of the softkeys on the front panel.
- TIME ZONE INDICATOR**
 - Shows the current time when a GPS receiver is connected, or the time is manually entered.
 - 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 3 hours and 59 minutes have passed from when the time was manually entered. The manually entered 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 entered.
 - "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 entered.
- POSITION INDICATOR**
 - Shows the current position when a GPS receiver is connected, or the position is manually entered.
 - 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 3 hours and 59 minutes have passed from the time when the position is manually entered. The manually entered 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 entered.
- 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)
- LOCAL ICON** (See 6) (For only USA and Australian version.)
 - Appears when the Attenuator function is turned ON.

3 Panel description

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



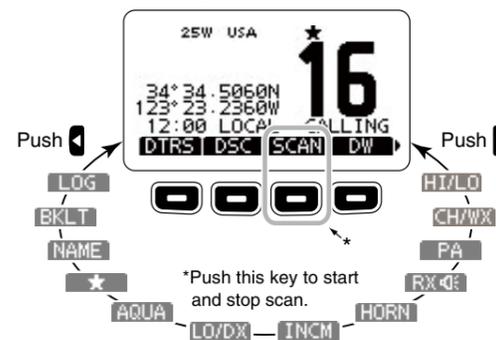
- DISTRESS KEY [DISTRESS]** (See 19)
 - Hold down for 3 seconds to transmit a Distress call.
- PTT SWITCH [PTT]**
 - Hold down to transmit, release to receive. (See 6)
- MENU KEY [MENU]** (See 31)
 - Push to enter or exit the Menu screen.
- LEFT AND RIGHT KEYS [◀]/[▶]**
 - Push to switch to the previous or next key function that is assigned to the softkeys. (See 4)
 - Push to select the character or number in the table while in the channel name, position entry mode, and so on. (See 8, 16, 17)
- ENTER KEY [ENT]** (See 8, 10, 16)
 - Push to set the entered data, selected item, and so on.
- UP AND DOWN/CHANNEL SELECT KEYS [▲•CH]/[▼•CH]**
 - Push to select the operating channels, Menu items, Menu settings, and so on. (See 5, 31)
 - Push to check Favorite channels, change the scanning direction or manually resume a scan. (See 14)
- 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 entry mode. (See 7)
- CLEAR KEY [CLEAR]** (See 8, 16, 31)
 - Push to cancel the entered data, or to exit the Menu screen.
- SOFTKEYS**
 - Functions can be assigned in the Menu screen. See the transceiver's manual for details.
- 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 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 preassigned to 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-setting, and the contents may differ, depending on the transceiver version.

- [DTRS] and [DSC] appears for only USA version.
- [CHAN] appears instead of [CH/WX] except for USA and Australian version.
- [LO/DX] appears for only USA and Australian version.

5 Selecting a Channel

- ◆ **Channel 16**
 - Push [16/C] to select Channel 16.
 - 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**
 - Hold down [16/C] for 1 second to select the Call channel of the selected channel group.
 - 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 USA and Australian version.

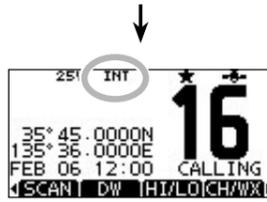
Weather channels

- (For only USA and Australian version.)
- Push [CH/WX] once or twice to select a weather channel.
 - "WX" appears when a weather channel is selected.
 - "WX" appears when the Weather Alert function is in turned ON.
 - Push [▲](CH) or [▼](CH) to select a channel.

5 Selecting a Channel (Continued)

◇ Selecting the Channel group

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



When the International channel group is selected.

6 Receiving and transmitting

- 1 Hold down [PWR] to turn ON the power.
- 2 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.
- 3 Change the channel group. (See 5)
- 4 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.
- 5 Push [LO/DX] to turn the receive Attenuator function ON or OFF, if necessary.
 - For only USA and Australian version.
 - "LOCAL" appears when the receive Attenuator function is ON.
- 6 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.
- 7 Hold down [PTT] to transmit, then speak at your normal voice level.
 - "TX" appears.
 - Channel 70 cannot be used for transmission other than DSC.
- 8 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 CANNOT be lawfully used by the general public in USA 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 Entering a Call channel

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



8 Entering a Channel name

Enter a name of up to 10 characters. Capital letters, 0 to 9, some symbols (! " # \$ % & ' () * + , - . / [\] ^ _ ; < = > ?) and a space can be entered.

- 1 Push [▲](CH) or [▼](CH) to select a channel.
 - First, cancel the Dualwatch, Tri-watch or Scan function, if activated.
- 2 Push [NAME] to open the channel name entry screen.
 - A black box is displayed on the first character.
- 3 Enter the channel name in the following manner:
 - Select a 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 enter a space.
 - Select "DELETE," then push [ENT] to delete a character.
 - Push [CLEAR] to cancel and return to the previous screen.
- 4 Repeat step 3 to enter all characters.
- 5 Push [◀], [▶], [▲] or [▼] to select "FINISH," then push [ENT] to set the name and return to the previous screen.



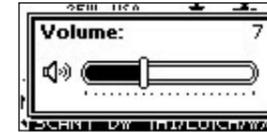
9 Using the AquaQuake water draining function

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

- 1 Rotate [VOL/SQL](Dial), or push [VOL/SQL](Dial) one or more times to display the volume adjustment screen.
- 2 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.

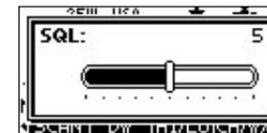


- 3 Push [ENT] to set the level, and exit the volume adjustment mode.
 - Push [CLEAR] to cancel.

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

11 Adjusting the squelch level

- 1 Push [VOL/SQL](Dial) one or more times to display the squelch adjustment screen.
- 2 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.



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

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

12 Adjusting the 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 Favorite channels

- 1 Select the channel group. (See 5)
- 2 Select the channel to be set as a Favorite channel.
- 3 Push [★] to set the displayed channel as a Favorite channel.
 - "★" appears on the display.
- 4 To cancel the Favorite 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 Favorite channel settings in the selected channel group.

- Repeat above procedure to set all channels as Favorite channels.

14 Starting a scan

- 1 Select Priority scan or Normal scan in the Menu screen.
 - See the transceiver's manual for details.
- 2 Select the channel group. (See 5)
- 3 Set the Favorite channels. (See 13)
- 4 Make sure the squelch is closed to start a scan.
- 5 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 Favorite 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.



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

15 Dualwatch/Tri-watch operation

- 1 Select Dualwatch or Tri-watch in the Menu screen.
 - See the transceiver's manual for details.
- 2 Push [▲](CH) or [▼](CH) to select the operating channel.
- 3 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.



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

See "Instructions ②" (16 to 22) or "Instructions ③" (23 to 31) 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.

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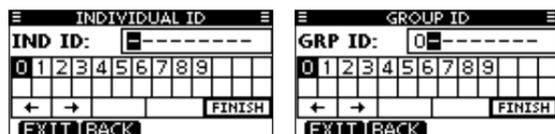
1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan

Count on us!

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16 Entering Individual/Group ID

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



- Enter an ID in the following way:
 - Select a 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 entry screen is displayed.



- Enter a 10 digit ID name in the following way:
 - Select a 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 set 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 entered, "No ID" is displayed. In this case, push [MENU] to exit the MENU screen.
- Rotate Dial or push [▲]/[▼] to select an 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 Entering position and time

- Enter "POSITION INPUT" in the DSC SETTINGS menu.
- Edit your latitude and longitude position using Dial, or [▲]/[▼]/[◀]/[▶].
 - Select a 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 save it.
- The UTC time entry screen is displayed, enter the UTC time in the following way:
 - Select a number using Dial, or [▲]/[▼]/[◀]/[▶].
 - Push [ENT] or Dial to set it.
 - To move the cursor, select either arrow, "←" or "→," then push [ENT] or Dial.



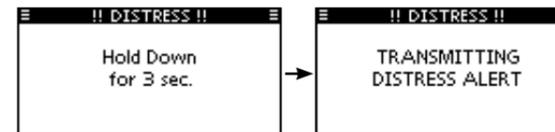
- Push [ENT] or Dial to save your position and time.
 - Return to the "DSC SETTING" screen.

19 Making a 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 21).

◇ 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.



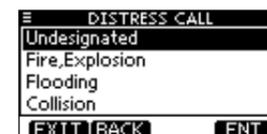
- After receiving the acknowledgment, push [ALARM OFF] then reply using the microphone.

A distress alert default contains:

- Nature of distress: Undesignated distress
- Position information: The latest GPS or manually entered 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 manually entered position is held for 23.5 hours, or until the power is turned OFF.

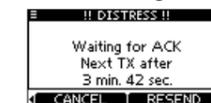
When no GPS receiver is connected, and both position and time have been manually entered, the screen shown below appears. Edit your latitude and longitude position and UTC time as follows:



- Push [CHG], then edit your latitude and longitude position and UTC time.
 - Select a 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 Canceling a Distress 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 Making a Distress Relay ACK

(For only USA version)

- When a Distress Relay Call is received, beeps sound. Push [ALARM OFF] to stop the beeps.
- Push [ACPT].
 - Push [IGN] to ignore the call and return to the normal operating mode.
 - Push [INFO] to display the Distress Relay Call information.
 - Push [PAUSE] to pause the countdown. The Distress cancel call is transmitted.
- Push [ACK].
 - Push [EXIT] to return to the normal operating mode*. *The exit confirmation dialog is displayed.
- The Distress Relay Acknowledgement confirmation screen is displayed. Push [CALL] to transmit the acknowledgement call.
- After transmitting the acknowledgement call, Channel 16 is automatically selected.
 - Push [EXIT] to return to the normal operating mode.* *The exit confirmation dialog is displayed.
 - Push [RESEND] to resend the acknowledgement.

22 Making DSC calls

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

◇ Making an Individual Call

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

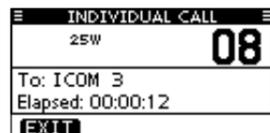
NOTE: When a coast station is selected in step ②, the voice channel is automatically specified by the coast station. Therefore, skip step ④ and go directly to step ⑤.

- 4 Select a 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.
 - To return to the normal operating mode, push [EXIT].*
 - *Only USA version, the exit confirmation dialog is displayed, and then push [RESEND] to resend the call.
- 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.

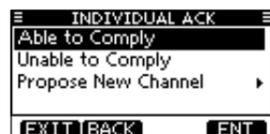
Push [ALARM OFF] to stop the beeps. Then push [EXIT] to return to the operating channel (before you entered the MENU screen).

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

◇ Making 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.*
 - *Only USA version, the exit confirmation dialog is displayed, and then push [RESEND] to resend the acknowledgement.

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 an 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.

◇ Making a Group Call

- 1 Enter "GROUP CALL" in the DSC CALLS menu.
- 2 Select or enter the group address.
- 3 Select an 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.*
 - *Only USA version, the exit confirmation dialog is displayed, and then push [RESEND] to resend the call.

◇ Making an All Ships Call

- 1 Enter "ALL SHIPS CALL" in the DSC CALLS menu.
- 2 Select a category.
 - The selectable category may differ according to the connected transceiver setting.
- 3 Select a 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.*
 - *Only USA version, the exit confirmation dialog is displayed, and then push [RESEND] to resend the call.

◇ Making a Position Request Call

(For only USA and Australian version)

- 1 Enter "POSITION REQUEST" in the DSC CALLS menu.
- 2 Select or enter an 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.*
 - *Only USA version, the exit confirmation dialog is displayed, and then push [RESEND] to resend the call.



◇ Making a Position Report Call

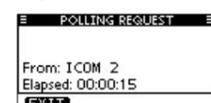
(For only USA and Australian version)

- 1 Enter "POSITION REPORT" in the DSC CALLS menu.
- 2 Select or enter an individual address.
- 3 A confirmation screen appears.
 - 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

(For only USA and Australian version)

- 1 Enter "POLLING REQUEST" in the DSC CALLS menu.
- 2 Select or enter an 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.*
 - *Only USA version, the exit confirmation dialog is displayed, and then push [RESEND] to resend the call.



22 Making DSC calls (Continued)

◇ Transmitting a Test Call

- 1 Enter "TEST CALL" in the DSC CALLS menu.
- 2 Select or enter an 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.



◇ Making 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 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.

◇ Making 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 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.

◇ Making 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.

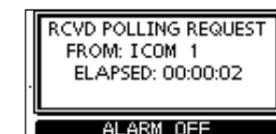
Manual Reply:

- 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 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 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" (23 to 31) for other functions.

Icom Inc.

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

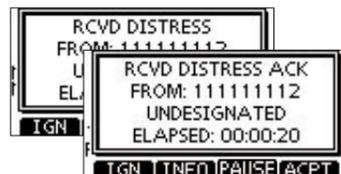
Count on us!

A-7022D-2EX-② Printed in Japan
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23 Receiving DSC calls

◇ **Receiving a Distress Call/
Distress Acknowledgement**

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



[IGN]

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

[INFO]

Push to display the Received Call information. (See 24)

[PAUSE] (For only USA version.)

Push to pause the countdown.

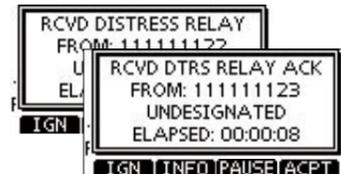
- Displayed if the "CH Auto Switch:" item in the DSC SETTINGS menu is set to "10 sec"(See 26).
- Push [RESUME] to resume the countdown.

[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/
Distress Relay Acknowledgement**

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



[IGN]

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

[INFO]

Push to display the Received Call information. (See 24)

[PAUSE] (For only USA version.)

Push to pause the countdown.

- Displayed if the "CH Auto Switch:" item in the DSC SETTINGS menu is set to "10 sec"(See 26).
- Push [RESUME] to resume the countdown.

[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 call Category.
- ② Push a softkey to select your action.



[IGN]

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

[INFO]

Push to display the Received Call information. (See 24)

[PAUSE] (For only USA version.)

Push to pause the countdown.

- Displayed if the "CH Auto Switch:" item in the DSC SETTINGS menu is set to "10 sec"(See 26).
- Push [RESUME] to resume the countdown.

[ACK]

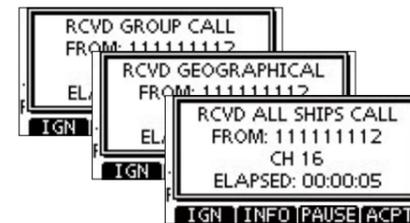
Push to display the "INDIVIDUAL ACK" screen to reply to the call, and select the channel specified by the calling station for voice communication, depending on your situation. See 22 for details of the Individual Acknowledgement procedure.

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.

23 Receiving DSC calls (Continued)

◇ **Receiving a Group Call/Geographical Area Call/
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 call Category.
- ② Push a softkey to select your action.



[IGN]

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

[INFO]

Push to display the Received Call information. (See 24)

[PAUSE] (For only USA version.)

Push to pause the countdown.

- Displayed if the "CH Auto Switch:" item in the DSC SETTINGS menu is set to "10 sec"(See 26).
- Push [RESUME] to resume the countdown.

[ACPT]

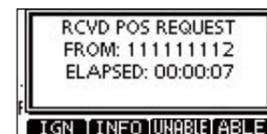
Push to monitor the channel specified by the calling station for its announcement.

▨ **Note for Geographical Area Call**

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 call Category.
- ② Push a softkey to select your action.



[IGN]

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

[INFO]

Push to display the Received Call information. (See 24)

[UNABLE] (For only USA version.)

Push to transmit the "Unable to Comply" acknowledgement.

[ABLE] (For only USA version.)

Push to transmit the "Able to Comply" acknowledgement.

[ACK]

Push to display the "POSITION REPLY" screen and send a reply to the call. (See 22)

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 call Category.
- ② Push a softkey to select your action.



[EXIT]

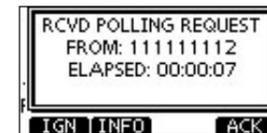
Push to ignore the call and return to the normal operating mode.

[INFO]

Push to display the Received Call information. (See 24)

◇ **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 call Category.
- ② Push a softkey to select your action.



[IGN]

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

[INFO]

Push to display the Received Call information. (See 24)

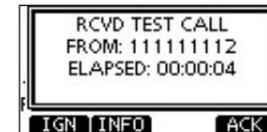
[ACK]

Push to display the "POLLING REPLY" screen to reply to the call. (See 22)

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 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 call Category.
- ② Push a softkey to select your action.



[IGN]

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

[INFO]

Push to display the Received Call information. (See 24)

[ACK]

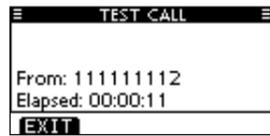
Push to display the "TEST ACK" screen to reply to the call. (See 22)

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.

23 Receiving DSC calls (Continued)

◇ 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 call Category.
- 2 Push [EXIT] to return to the normal operating mode.



24 Received Call Log

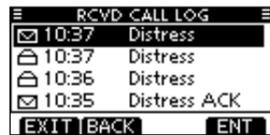
The transceiver automatically stores up to 50 distress messages and 50 other messages, and they can be used as a supplement to your logbook.

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



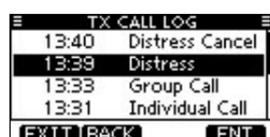
When "Distress" is selected in step ②.

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

25 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 message.



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.

26 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 Auto Switch function (For only USA version.)

- 1 Enter "CH AUTO SWITCH" in the DSC Settings menu.
- 2 Rotate Dial to set the Channel Auto 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.

◇ 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.

27 Intercom operation

This function is not available with the IC-M400BB.

- 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

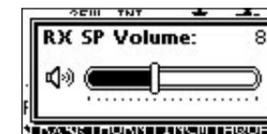


On the listener's display

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

28 RX Speaker function

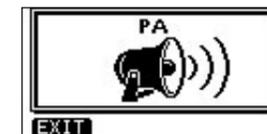
- 1 Push [RX SP] to enter the RX Speaker mode.
 - The RX Speaker volume level adjustment screen is displayed.



- 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.

29 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.

30 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.

31 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 entered 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 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 22) for other functions.

32 Menu Screen Operation 2

See "Instructions ③" (B1 Menu screen operation) for entering the menu screen operation.

The Menu screen is used for setting infrequently changed values, function settings or sending DSC calls.



Menu lists

◇ MMSI/GPS Information

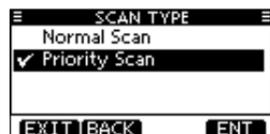
The transceiver shows the entered MMSI code and GPS information. If the code is not entered, "NO DSC MMSI" is displayed.



33 Radio Settings items

◇ Scan type

The transceiver has two scan types, Normal scan and Priority scan. A Normal scan searches all Favorite channels in the selected channel group. A Priority scan sequentially searches all Favorite channels, while monitoring Channel 16. (Default: Priority Scan*)



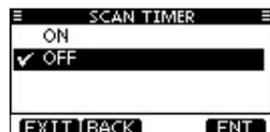
*"Normal Scan" is the default for the USA version.

◇ Scan timer

The scan timer can be selected as a pause (OFF) or timer scan (ON). When OFF is selected, the scan pauses until the signal disappears.

(Default: OFF)

- **Priority scan:** When ON is selected, the scan pauses for 5 seconds and then resumes, even if a signal has been received on any channel other than Channel 16.
- **Normal scan:** When ON is selected, the scan pauses for 5 seconds and then resumes, even if a signal has been received on any channel.



◇ Dual/Tri-watch

This item can be selected as Dualwatch or Tri-watch. (p. 19) (Default: Dualwatch)



◇ Channel Group

Except for the European version, a channel group suitable for your operating area can be selected. Depending on the transceiver version, INT, USA, CAN, ATIS or DSC may be selectable. •The screen below shows the USA version.



◇ Weather alert (For only USA and Australian version.)

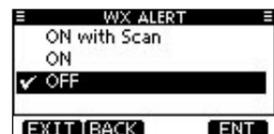
A NOAA broadcast station transmits a weather alert tone before important weather information. (Default: OFF)

- "WX" blinks until the transceiver is operated after the transceiver detects the alert.
- "WX" appears instead of "WX" when the function is set ON.

ON with Scan: The preset weather channels are sequentially checked while scanning.

ON: The previously selected (last used) weather channel is checked while scanning.

OFF: The transceiver does not detect a weather alert tone.



◇ CH Display

You can select the number of digits to display the channel number. (Default: 4 Digits)

- This setting may not be usable, depending on the transceiver's version or presetting.

3 Digits: The channel number is displayed in 3 digits, such as "01A."

4 Digits: The channel number is displayed in 4 digits, such as "1001."



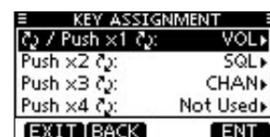
34 Configurations

See "Instructions ③" (B1 Menu screen operation) for Backlight, Display Contrast, Key Beep, and COMMANDMIC Speaker functions details.

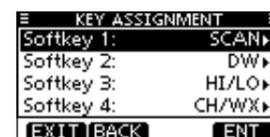
◇ Key Assignment

Desired functions can be assigned to Dial and the softkeys.

- ① When the "KEY ASSIGNMENT" screen is displayed, rotate Dial or push [▲]/[▼] to select "Dial" or "Softkeys," and then push [ENT].
- ② Rotate Dial or push [▲]/[▼] to select the desired position, and then push [ENT].
 - To return to the default, select "Set default" and push [ENT].

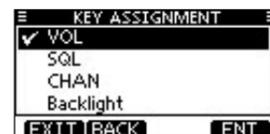


For "Dial" assignment

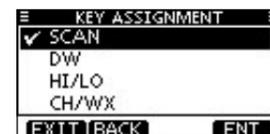


For "Softkeys" assignment

- ③ Rotate Dial or push [▲]/[▼] to select the option, and then push [ENT] to set it.
 - "✓" is displayed next to the selected option.



For "Dial" assignment



For "Softkeys" assignment*

*[CH/WX] appears instead of [CHAN], depending on the version.

- ④ Push [EXIT] to exit the Menu screen.
 - Push [CLEAR] or [BACK] to return to the previous screen.

• Dial assignment

The Audio volume (VOL), squelch (SQL), channel selection (CHAN) and LCD backlight level (Backlight) functions can be assigned to any one of 4 sequential positions on Dial. Pushing Dial 1 to 4 times sequentially selects the desired function, and rotating Dial adjusts the level or selects a value or number.

For example:

- VOL is assigned the 1st position, and pushing Dial once selects VOL. The VOL adjust screen is displayed and rotating Dial adjusts the audio volume.
- CH is assigned to the 3rd position, and pushing Dial three times selects CH. The channel number is displayed and rotating Dial will select the desired channel.

You can assign VOL, SQL, CHAN and Backlight to any one of the 1st, 2nd, 3rd, or 4th sequential positions.

Repeatedly pushing Dial sequentially displays all the functions in the order they are assigned, and skips any functions assigned as Not Used.

• Softkeys assignment

The desired function can be assigned as the softkey function. The assigned function can be used when its key icon is displayed.

See page 3 for details of the assignable key functions.

◇ UTC Offset

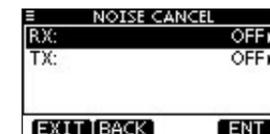
Set the offset time between the UTC (Universal Time Coordinated) and your local time to between -14:00 and +14:00 (in 1 minute steps). (Default: 00:00)



◇ Noise Cancel

Set the Noise Cancel function for both receive and transmit.

- ① When the "NOISE CANCEL" screen is displayed, rotate Dial or push [▲]/[▼] to select "RX" or "TX," and then push [ENT].



- ② Rotate Dial or push [▲]/[▼] to select the option, and then push [ENT] to set it.
 - "✓" is displayed next to the selected option.

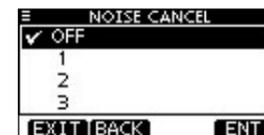
- ③ Push [EXIT] to exit the Menu screen.
 - Push [CLEAR] or [BACK] to return to the previous screen.

• RX

Turn the receive Noise Cancel function ON or OFF.

OFF: Turns OFF the function. (Default)

- 1: The Noise Cancel function reduces random noise components in the received signal to approximately one half.
- 2: The Noise Cancel function reduces random noise components in the received signal to approximately one third.
- 3: The Noise Cancel function reduces random noise components in the received signal to approximately one tenth.

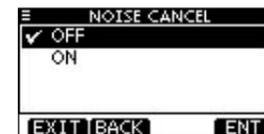


• TX

Turn the transmit Noise Cancel function ON or OFF.

OFF: Turns OFF the function. (Default)

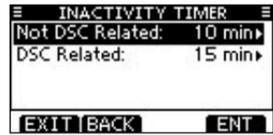
ON: The Noise Cancel function reduces random noise components in the transmitted signal to one third.



◇ **Inactivity Timer**

Set the inactivity timer to between 1 and 10 minutes (in 1 minute steps) or OFF for the “Not DSC Related” and “DSC Related” item, and set to between 1 and 15 minutes (in 1 minute steps) or OFF for the “DSC Related” item. The count down alarm sounds 10 seconds before the Inactive timer returns the current screen to the normal operating screen.

- ① When the “INACTIVITY TIMER” screen is displayed, rotate Dial or push [▲]/[▼] to select “Not DSC Related” or “DSC Related,” and then push [ENT].
- ② Rotate Dial or push [▲]/[▼] to select the option, and then push [ENT] to set it.
 - “✓” is displayed next to the selected option.
- ③ Push [EXIT] to exit the Menu screen.
 - Push [CLEAR] or [BACK] to return to the previous screen.



• **Not DSC Related**

When the LCD displays a screen other than the normal operation screen, or one not related to the DSC, and no key operation occurs for this set period, the transceiver automatically returns to the normal operating screen.
(Default: 10 min)



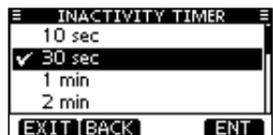
• **DSC Related**

When the LCD displays the screen related to the DSC, and no key operation occurs for this set period, the transceiver automatically returns to the normal operating screen.
(Default: 15 min)



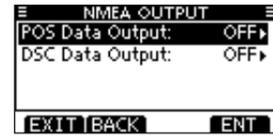
• **RT Related** (For only USA version.)

While receiving or transmitting a signal, and when the channel is changed, the RT (Radio Telephone) icon is displayed. The icon disappears if you push no key for the period of time set in the Menu screen shown below.
(Default: 30 sec)



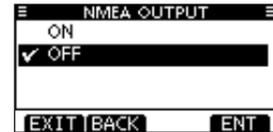
◇ **NMEA Output**

Select the Data Output function option for a NMEA output port.



• **POS data output**

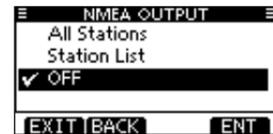
When receiving position data from an external GPS receiver, this function sends the data from the NMEA Output port to an external device.
(Default: OFF)



• **DSC data output**

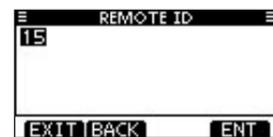
When receiving a DSC call, this function sends the DSC data from the NMEA Output port to an external device.
(Default: OFF)

- All Stations: Outputs the call from any vessel from the NMEA Output port.
- Station List: Outputs the call from any vessels listed on the Individual ID screen.
- OFF: Does not output any call to an external device.



◇ **Remote ID**

Set a Remote ID number to between 1 and 69. The Remote ID is included in the sentence of the Icom original NMEA format.
(Default: 15)



See “Instructions ①” (1 to 15), “Instructions ②” (16 to 22), or “Instructions ③” (23 to 31) for other functions.