

# HM-195B HM-195SW

# **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 t	he right
(Yellow: Speaker (+), Black: Speaker (-))	
	Accessories included with the HM-195: ① Connection cable (OPC-1540*: 6 m; 20 ft) ② Mounting base ③ Connector cap ④ Microphone hanger ⑤ Screws (M3 × 16 mm; self-tapping) *The OPC-1540 has external speaker leads, as illustrated to t (Yellow: Speaker (+), Black: Speaker (-))

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, IC-M400BB, 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.



# 2 Function display



# **BUSY/TRANSMIT ICON** (See **6**)

- "EUED" appears when receiving a signal or when the squelch is open.

# **2 POWER ICON** (See **6**)

# **3 RX SPEAKER ICON** (See 27)

Appears while in the RX Speaker mode.

# CHANNEL GROUP ICON (See 5)

- Selected channel group icons, 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.

# **G** CALL CHANNEL ICON (See **5**)

Appears when the Call channel is selected.

# 6 DUPLEX ICON (See 5)

Appears when a duplex channel is selected.

# FAVORITE CHANNEL ICON (See 13)

Appears when a Favorite (TAG) channel is selected.

# 8 MAIL ICON (See 23)

Blinks when there is an unread message.

# **O** GPS ICON

- Stays ON when the GPS receiver is activated and valid position data is received.
- Blinks when invalid position data is being received.

# (D SWITCH ICON (See 25)

Appears when the "CH 16 SWITCH" in DSC Settings is set to 'OFE'

# **D** 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.

# **B** CHANNEL NAME FIELD

# ( KEY ICONS (See 4)

panel

# **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, 4 hours after 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.

# **(DPOSITION 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, 4 hours after 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.

#### **D** 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)

# (B 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.



- 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)
- 6 MENU KEY [MENU] (See 50) 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)

# 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 preprogramming, and the contents may differ, depending on the transceiver version.

- /// Except for a U.S.A. and Australian version transceiver: [CHAN] appears instead of [CHAN]
- [LOUDX] does not appear.

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The channel name appears, if programmed. (See 8)

Shows the programmed function of the softkeys on the front

# **5** ENTER KEY [ENT] (See **8**, **10**, **16**)

# Push to set the input data, selected item, and so on.

- **③** 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 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 programming mode . (See 7)
- 8 CLEAR KEY [CLEAR] (See 8, 16, 30)
- Push to cancel the entered data, or to exit the Menu screen. **O** SOFTKEYS

Desired 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.

2EW

➡ Rotate to adjust the volume level.\* (See 10)

\*The desired function can be assigned in the Menu screen.

# **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  $[\blacktriangle](CH)$  or  $[\triangledown](CH)$ to select an operating channel.

# Call channel

- 1) Hold down [16/C] for 1 second to select the Call channel of the selected channel aroup.
- 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 + " appears when the Weather Alert function is in turned ON
- ② Push [▲](CH) or [▼](CH) to select a channel.



SCANT DW THI/LOTCH/WX

# 5 Channel selection (Continued)

# ♦ Channel group selection

- 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 desired 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.

# 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, "EUST" 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.
- Only U.S.A. and Australian version transceivers.
- "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.

#### • "The 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.

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

**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

① Select the desired channel group to be programmed. (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 programming mode.
- ④ Rotate Dial or push [▲](CH) or [▼](CH) to select a channel.



5 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.
- 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 programming screen
- A black box is displayed on the first character.



- 3 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, " $\leftarrow$ " or " $\rightarrow$ ," 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. (4) Repeat step (3) to input all characters.
- CHAN NAME



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

# **9** AquaQuake water draining function

The AguaQuake 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.

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

# 2 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 nor mal mode.



# 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.

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# **13** Setting Favorite channels

- 1) Select the desired channel group. (See 5)
- ② Select the desired 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 desired 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 desired 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.

# INSTRUCTIONS (2)

# REMOTE-CONTROL MICROPHONE

# HM-195B HM-195SW

# C Programming Individual/Group ID

- (1) Enter "INDIVIDUAL ID" or "GROUP ID" in the DSC SET-TINGS menu.
- 2 Push [ADD].
- The "INDIVIDUAL ID" or "GROUP ID" program screen is displayed.

FINISH

INDIVIDUAL ID =												GROUP ID															
IND ID:												G	RP	, 1	D		Ŀ	D	-					,			
0	)	1	2	З	4	5	6	7	8	9					0	1	2	З	4	5	6	7	8	9			Γ
E																											
	4	-	-	+							FI	NI:	SH			⊢	l -	+							FI	NIS	Ή
Ī	EXIT BACK										]	E	Х	IΤ	I	ЗA	Ck										

- (3) 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, " $\leftarrow$ " or " $\rightarrow$ ," 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. (4) Repeat step (3) to enter all 9 digits.
- (5) After entering, push [ENT] or Dial to set it.
- The ID name programming screen is displayed.

INDIVIDUAL ID =	E GROUP ID
NAME:	NAME:
ABCDEFGHIJKLM	ABCDEFGHI
NOPQRSTUVWXYZ	NOPQRSTUV
← → SPACE DELETE FINISH	← → SPACE DELET
EXIT BACK 123	EXIT BACK

- 6 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, " $\leftarrow$ " or " $\rightarrow$ ," then push [ENT] or Dial.
- Push [123] then [!\$?] then [ABC] to select a character group. 7) After entering the ID name, select "FINISH" using Dial, or
- [A]/[V]/[A]/[V], then push [ENT] or Dial to program it. • The "INDIVIDUAL ID" or "GROUP ID" list screen is displayed.



8 Push [MENU] to exit the MENU screen.

# Deleting Individual/Group ID

- (1) Enter "INDIVIDUAL ID" or "GROUP ID" in the DSC SET-TINGS menu.
- When no address ID is programmed, "No ID" is displayed. In this case, push [MENU] to exit the MENU screen.
- ② Rotate Dial or push [▲]/[▼] to select a desired ID name, then push [DEL].

INDIVIDUAL ID =	E GROUP ID E
ICOM 1	GROUP 1
ICOM 2	GROUP 2
ADD EDITEDEL DEL DEL	ADD [EDIT] DEL D

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



④ Push [MENU] to exit the MENU screen.

# 18 Position and time programming

- 1) Enter "POSITION INPUT" in the DSC SETTINGS menu.
- (2) Edit your latitude and longitude position using Dial, or [A]/
- [▼]/[◀]/[▶].
- Select a desired number using Dial, or [▲]/[▼]/[▲]/[▶].
- Push [ENT] or Dial to set it.
- To move the cursor, select either arrow, " $\leftarrow$ " or " $\rightarrow$ ," 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.



- 3) After entering the position, push [ENT] to program it. (4) 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.

POSITION INPUT =											
UI	rc	2		-	-	: -	-				
0	1	2	З	4	5	6	7	8	9		
Ц									L,		
← → NODATA FINISH											
EXIT BACK											

5 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 re-peat' mode), or a DSC Cancel call is made (See 20).

# ♦ Simple Call

- 1) Confirm no Distress call is being received.
- 2 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.



- 3 After transmitting the call, the transceiver waits for an acknowledgment call.
- Push [RESEND] to manually transmit the Distress repeat call. • Push [4]/[▶] then push [INFO] to display the transmitted Distress call information.
- Push [4]/[>] then push [PAUSE] to pause the 'Call repeat' mode; push [RESUME] to resume it.



- 4 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

- 1 Enter "DISTRESS CALL" in the DSC CALLS menu.
- (2) Select the nature of the distress using Dial or  $[\blacktriangle]/[\bigtriangledown]$ , 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.



3 The Distress call confirmation screen is displayed. • Rotate Dial or push  $[\blacktriangle]/[\nabla]$  to see the hidden lines.



- ④ 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.
- (5) After transmitting the call, the transceiver waits for an acknowledgment call.
- Push [RESEND] to manually transmit the Distress repeat call. • Push [4]/[] 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.
- (6) 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 OFE



- 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



# **21** Transmitting DSC calls

1/1/ To ensure correct operation of the DSC function, make sure W 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.
- **WOTE:** 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 MFNU 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.
- 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  $[\blacktriangle]/[\bigtriangledown]$ , 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.

POSITION REQUEST	
From: ICOM 2	
34° 34 - 5060N	
123°23.2360W	
12:00 UTC	
EXIT	

# ♦ Transmitting a Position Report Call

- (1) Enter "POSITION REPORT" 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 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 trans-
- ceiver 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.
- $(\bar{\mathbf{3}})$  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.
  - TEST CALL From: ICOM 1 Elapsed: 00:00:26

#### Transmitting a Test Acknowledgement Call Quick ACK:

(1) When a Test call is received, beeps sound. Push [ALARM OFF] to stop the beeps.

EXIT

- 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:

Quick Reply:

2 Push [ACK].

Manual Reply:

Icom Inc.

1) Enter "TEST ACK" in the DSC CALLS menu.

returns to the normal operating mode.

♦ Transmitting a Position Reply Call

Push [ALARM OFF] to stop the beeps.

Push [CALL] to transmit the reply call.

REPLY" item will not be displayed.

normal operating mode.

normal operating mode.

- . 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 [A]/[V], then push Dial or [ENT]. 3 The Test ACK confirmation screen is displayed.

4) After transmitting the acknowledgement call, the transceiver

(1) When a Position Request call is received, beeps sound.

RCVD POS REQUEST

ELAPSED: 00:00:01

ALARM OFF

• Push [INFO] to display the Position Request call information.

④ After transmitting the reply call, the transceiver returns to the

• If no Position Request call has been received, the "POSITION

③ The Position Reply confirmation screen is displayed.

1) Enter "POSITION REPLY" in the DSC CALLS menu.

2 Select a desired Position Request call to reply to.

3 The Position Reply call confirmation screen is displayed.

④ After transmitting the reply call, the transceiver returns to the

Push [CALL] to transmit the acknowledgement call.

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

Push [BACK] to return to the previous screen, or push [ACK].

FROM: ICOM 1

Push [CALL] to transmit the acknowledgement call.

# ♦ 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 "PO-SITION REPORT REPLY" item will not be displayed.

- 2 Select a desired Position Report Request call to reply to, using Dial or  $[\blacktriangle]/[\bigtriangledown]$ , 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)" (I to I) or "Instructions (3)" (22 to 30) for other functions.



# REMOTE-CONTROL MICROPHONE

# HM-195B HM-195SW

# 22 Receiving DSC calls

# Receiving a Distress Call

1 Push [ALARM OFF] to stop the alarm and the blinking backliaht

(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 backliaht
- 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 backlight.
- 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 backliaht

(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 backliaht
- 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 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 backliaht.
- 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 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 backliaht
- 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 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 it's announcement.

# ♦ Receiving a Geographical Area Call

- (1) Push [ALARM OFF] to stop the alarm and the blinking backliaht.
- 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 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 it's announcement.

When no GPS receiver is connected, or if there is a problem W 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 liaht
- 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 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 er automatically replies to the call. In that case, both the TX and RX calls are stored in the Transmitted and Re-ceived Call Logs.

# ♦ Receiving a Position Report Call

1) Push [ALARM OFF] to stop the alarm and the blinking backliaht

• 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 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 backliaht

• 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 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 er automatically replies to the call. In that case, both the TX and RX calls are stored in the Transmitted and Re-ceived Call Logs.

# 22 Receiving DSC calls (Continued)

# ♦ Receiving a Test Call

- 1) Push [ALARM OFF] to stop the alarm and the blinking backliaht
- 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 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 backliaht
- 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.

EXIT



# 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.



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.

# 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.

# Select the desired 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.

# 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."

# 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.

circuits has a problem. In that case, you will have to send the transceiver to your nearest dealer for repair.

# **26** 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.



# 27 RX Speaker function



- •"RX I appears.
- 3 To return to normal operating mode, push [RX 1].
- "RX **1**." 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.

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

- - ④ Push [EXIT] to return to the normal operating mode.

# **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.
- <sup>2</sup> 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  $[\blacktriangle]/[\bigtriangledown]$  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 in-(Default: Internal Speaker) ternal speaker. Regardless of this setting, the transceiver's microphone speaker is ON.