

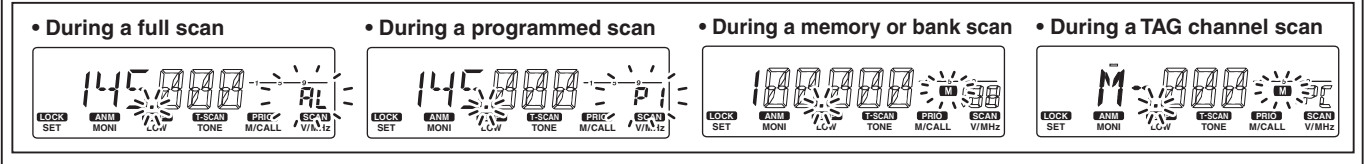
■ Scan start/stop

◇ Preparation

If desired, set the scan resume option, program the scan edges, program 2 or more memory channels, and set the skip channels.

◇ Operation

- ① Select the mode or bank.
For full/programmed scan:
 - ➔ Push [V/MHz] to select the VFO mode.**For memory or TAG channel scan:**
 - ➔ Push [M/CALL] one or more times to select the memory or marine channel mode.**For bank scan:**
 - ➔ Push [BANK], and then rotate [DIAL] to select the desired bank.
- ② Set the squelch to the point where the noise is just muted.
- ③ Hold down [SCAN] (V/MHz) for 1 second to start a scan.
 - Rotate [DIAL] to change the scanning direction.
 - Except for memory and TAG channel scans, the scan type blinks in the memory channel readout:
 - During a full scan, push [SET] to switch between a full scan and a programmed scan (P1, P2 and P3).
 - Push [V/MHz] to cancel the scan.



■ Memory channels

The IC-2300H has a total of 207 memory channels for storing often used operating frequencies, repeater settings, and so on. Memories include 6 scan edges and 1 Call channel.

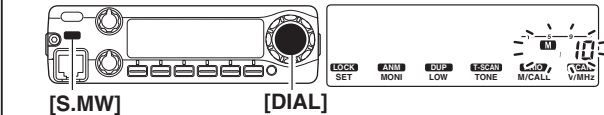
◇ PROGRAMMING MEMORY CHANNELS

1. Setting the frequency

In the VFO mode, set the desired operating frequency, repeater, tone, tuning steps, and so on.

2. Selecting the memory channel

- Push [S.MW], and then rotate [DIAL] to select the desired memory channel.
- The "M" icon and memory channel number blink.



3. Writing the memory channel

- Hold down [MW] (S.MW) for 1 second to program.
- 3 beeps sound
- The memory channel number automatically increases when continuing to hold down [MW] (S.MW) after programming.

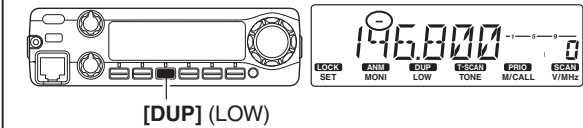
◇ Selecting Memory channel

- ① Push [M/CALL] one or more times to select the memory mode.
- The "M" icon appears.
- ② Rotate [DIAL] to select a desired memory channel.
- Only programmed memory channels can be selected.

■ Repeater operation

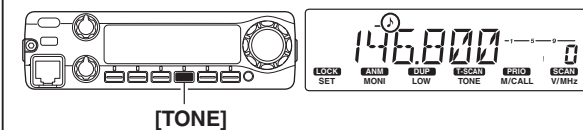
1. Setting duplex

Hold down [DUP] (LOW) for 1 second once or twice to select minus duplex or plus duplex.



2. Repeater tone

If accessing the repeater requires a subaudible tone, push [TONE] one or more times until "A" appears.



■ Initial Set mode

The initial Set mode is accessed at power ON, and allows you to set seldom-changed settings. In this way, you can "customize" the transceiver to suit your preference and operating style.

• Initial Set mode operation

- ① While holding down [SET], hold down [U] for 1 second to enter the Initial Set mode.
- ② Push [SET] or [MONI] to select the desired item.
- ③ Rotate [DIAL] to select the option or value.
- ④ Push [U] to save and exit the initial Set mode.

Initial Set mode items

- Key-touch beep
 - SET MONI BEP -- ON
 - Turn the confirmation beeps ON (default) or OFF.
- Time-out timer
 - SET MONI TOT -- OF
 - Inhibit continuous transmissions longer than the set time period.
- Auto power OFF
 - SET MONI POF -- OF
 - Automatically turn the transceiver's power OFF.
- Repeater lockout
 - SET MONI RLO -- OF
 - Set the transmission lockout capability.
- Squelch delay
 - SET MONI SQT -- S
 - Set the squelch delay to "S" (Short) or "L" (Long).
- Squelch type
 - SET MONI SOL -- OF
 - Set the squelch type to "OFF" (Noise squelch), "SS" (S-meter Squelch) or "AT" (Squelch Attenuator).
- Tone burst
 - SET MONI SOB -- OF
 - Turn the Tone Burst function ON or OFF.
- DTMF speed
 - SET MONI DTD -- 1
 - Set the DTMF sending rate to 1-3 or 5.
- Display type
 - SET MONI DSP -- FR
 - Set the display type while in the memory mode.
- Voltage display
 - SET MONI VLT -- ON
 - Turn the Voltage Display function ON or OFF.

■ Marine channels (Transmission is inhibited in the marine channel mode.)

◇ Selecting a marine channel

- ① Push [M/CALL] one or more times to select the marine channel mode.
Appears M-16
- ② Rotate [DIAL] to select the desired channel.

◇ Setting TAG channels

Marine channels; 09 and 16 are preprogrammed as TAG channels. You can set other marine or memory channels as TAG channels.

NOTE: Only TAG channels are selectable in the marine channel mode.

- ① Push [M/CALL] one or more times to select the marine channel mode.
- ② Push [S.MW].
- ③ Rotate [DIAL] to select a marine or memory channel to be added.
Selected channel M-16
- ④ Hold down [MW] (S.MW) for 1 second.
 - 3 beeps sound and the selected channel is added.

◇ Clearing TAG channels

The programmed TAG channels can be cleared as a TAG channel.

- ① Push [M/CALL] one or more times to select the marine channel mode.
- ② Rotate [DIAL] to select the marine channel to be cleared.
- ③ Hold down [MW] (S.MW) for 1 second.
 - 3 beeps sound and the selected channel is cleared.

◇ Setting the Call/Priority channel

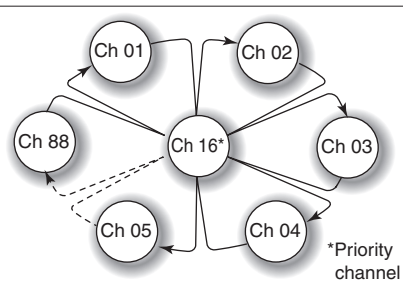
Set a TAG channel as the Call or Priority channel.

- ① Push [M/CALL] one or more times to select the marine channel mode.
- ② Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- ③ Push [SET] or [MONI] until the "M-" and "C" or "M-" and "P" appear.
Setting the Call channel M-9
Setting the Priority channel M-16
- ④ Rotate [DIAL] to select the channel to set as the Call or Priority channel.
- ⑤ Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.

◇ Priority watch, Dualwatch/Tri-watch

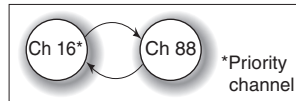
• Priority watch

A priority watch sequentially searches through all TAG channels, while also monitoring the Priority channel. When a signal is detected on the Priority channel, the watch pauses until the signal disappears; when a signal is detected on a channel other than the Priority channel, the Priority watch switches to Dualwatch, until the signal disappears.



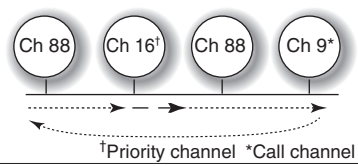
• Dualwatch

Dualwatch monitors the Priority channel while receiving on a TAG channel. The watch pauses when a signal is received on the Priority channel.



• Tri-watch*

Tri-watch monitors the Priority channel and the Call channel while receiving on a TAG channel. Tri-watch switches to Dualwatch, when receiving a signal on the Call channel. *One or more TAG channels other than the Call and Priority channels must be programmed, to start the Tri-watch.



Start the watch:

- ① Push [M/CALL] one or more times to select the marine channel mode.
- ② Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- ③ Push [SET] or [MONI] until "PRI" appears.
- ④ Rotate [DIAL] to select the Watch type.
 - "PR": Priority watch
 - "DU": Dualwatch
 - "TR": Tri-watch.
- ⑤ Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.
- ⑥ Hold down [M/CALL] (PRIO) for 1 second to start the watch.
 - The "PRIO" icon appears.
- For only the Dual/Tri-watch:
 - Rotate [DIAL] to select the desired TAG channel to receive.
- ⑦ To stop the watch, push [M/CALL].

■ Set mode

• Set mode setting

- ① Push [SET] to enter the Set mode.
- ② Push [SET] or [MONI] to select a desired item.
- ③ Rotate [DIAL] to select an option or value.
- ④ Push any key other than [SET] or [MONI], to save and exit the Set mode.

Set mode items

- Repeater tone frequency
 - SET MONI 88.5
 - Select the subaudible tone needed to access the repeater.
- Tone squelch frequency
 - SET MONI 88.5
 - Select the CTCSS tone frequency for the tone squelch function.
- DTCS code
 - SET MONI 023
 - Set the DTCS code for DTCS squelch use.
- DTCS polarity
 - SET MONI TPT -- NN
 - Set the Transmit and Receive DTCS polarity.
- Frequency offset
 - SET MONI +0600
 - Set the duplex frequency offset.
- Reverse mode
 - SET MONI REV -- OF
 - Turn the Reverse Duplex function ON or OFF
- Tuning step
 - SET MONI TS -- 5
 - Set the VFO tuning step.
- Scan stop timer
 - SET MONI SCP -- 10
 - Select the scan pause timer option.
- Scan resume timer
 - SET MONI SCT -- 2
 - Select the resume options of a scan pause.
- Display dimmer
 - SET MONI DIM -- 4
 - Set the backlight brightness.
- Auto dimmer
 - SET MONI ATD -- OF
 - Set the Auto Dimmer brightness.
- Display color
 - SET MONI COL -- AM
 - Select the display backlight color.
- Display contrast
 - SET MONI CON -- 2
 - Adjust the LCD contrast.
- Transmit permission
 - SET MONI TX -- ON
 - Turn the TX inhibit function ON or OFF. (Select "OFF" to inhibit transmitting.)
- Channel skip setting
 - SET MONI CHS -- OF
 - Turn the Skip function ON or OFF.
- Bank setting
 - SET MONI BAK --
 - Assign the desired memory and scan edge channels.
- Bank link function
 - SET MONI BLK -- OF
 - Assign the desired banks for a continuous banks scan.
- Wide/Narrow
 - SET MONI W/N -- W
 - Set both the transmit and receive passband.
- MIC gain
 - SET MONI MIC -- HI
 - Set the microphone sensitivity.

*Appears only when accessing the Set mode from the memory mode.

■ Foghorn function

The Foghorn function repeatedly sounds a horn.

- ① Push [M/CALL] one or more times to select the marine channel mode.
- ② Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- ③ Push [SET] or [MONI] until "FVL" appears.
- ④ Rotate [DIAL] to set the output level to 1 (min) to 32 (max).
- ⑤ Push [SET] or [MONI] until "FREQ" appears.
- ⑥ Rotate [DIAL] to set the horn frequency to 200-850 Hz in 10 Hz steps.

- ⑦ Push [SET] or [MONI] until "FOG" appears.
- ⑧ Rotate [DIAL] to set the Foghorn pattern.
 - Select "OF" to turn OFF the function.
 - Refer to the below table for the horn output patterns.
- ⑨ Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.
 - The "F" icon blinks while the Foghorn function is ON.
 - While sounding a horn, rotate [DIAL] to set the horn output level.

• Foghorn patterns

TYPE	PATTERN	USAGE
UNDERWAY "FOG-WA"	One 5-second blast every 120 seconds. 5 sec. ±1 120 sec.	Motor vessel underway and making way.
STOP "FOG-ST"	Two 5-second blasts (separated by 2 seconds) every 120 seconds. 5 sec. ±1 2 sec. 120 sec.	Motor vessel underway but stopped (not making way).
SAIL "FOG-SA"	One 5-second blast followed by two 1-second blasts (each separated by 2 seconds) every 120 seconds. 5 sec. ±1 1 sec. 2 sec. 120 sec.	Sailing vessel underway, fishing vessel (underway or anchored), vessel not under command, a vessel restricted in her ability to maneuver (underway or at anchor), or a vessel towing or pushing another ahead.
TOW "FOG-TO"	One 5-second blast followed by three 1-second blasts (each separated by 2-seconds) every 120 seconds. 5 sec. ±1 1 sec. 2 sec. 120 sec.	Vessel under tow (manned).

■ Marine Set mode

◇ Marine Set mode operation

- ① Push [M/CALL] one or more times to select the marine channel mode.
- ② Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- ③ Push [SET] or [MONI] to select the desired item.
- ④ Rotate [DIAL] to select the option or value.
- ⑤ Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.

◇ Marine Set mode items

- Marine Set mode items
 - Priority channel
 - SET MONI M-16
 - Set the Priority channel.
 - Call channel
 - SET MONI M-9
 - Set the Call channel.
 - Skip channel
 - SET MONI CHS -- OF
 - Turn the channel skip setting ON or OFF for the channel skip scans
 - AF output selections
 - SET MONI RSP -- OF
 - Select the AF output location.
 - Foghorn function
 - SET MONI FOG OF
 - Set the Foghorn pattern to Underway ("WA"), Stop ("ST"), Sail ("SA"), Tow ("TO") or OFF ("OF").
 - Foghorn frequency
 - SET MONI FRQ400
 - Set the Foghorn frequency to between 200 and 850 Hz, in 10 Hz steps.
 - Public Address (PA) output level
 - SET MONI PVL 10
 - Set the Public Address output level to between 1 (min) and 32 (max).
 - Foghorn output level
 - SET MONI FVL 10
 - Set the foghorn output level to between 1 (min) and 32 (max).
 - Watch type
 - SET MONI PRI -- PR
 - Set the watch type to Priority watch ("PR"), Dualwatch ("DU") or Tri-watch ("TR").

■ Public Address (PA) function

The Public Address function is for hailing or making onboard announcements through a PA speaker. IMPORTANT: While the Public Address function is turned ON, the transceiver cannot receive nor transmit signals.

◇ Setting the Public Address function

- ① Push [M/CALL] one or more times to select the marine channel mode.
- ② Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- ③ Push [SET] or [MONI] until "PVL" appears.
- ④ Rotate [DIAL] to set the output level to between 1 (minimum) and 32 (maximum).
- ⑤ Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.

◇ Turning ON the Public Address function

- ① Hold down [PA] (MONI) for 1 second, to turn ON the Public Address function.
PA ON
- While the Public Address function is ON, only [SET], [PA] (MONI) and [U] are usable.
- While holding down [PTT], rotate [DIAL] to set the output level.
- ② Hold down [PTT], and speak into the microphone at a normal voice level.
 - "PA ON" blinks, while holding down [PTT].
- ③ Hold down [PA] (MONI) for 1 second again, to turn OFF the Public Address function.

■ AF output selections

The IC-2300H has three AF output selections. Select the output that suits your operating style.

- ① Push [M/CALL] one or more times to select the marine channel mode.
- ② Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- ③ Push [SET] or [MONI] until "RSP" appears.
- ④ Rotate [DIAL] to select the AF output location.
 - "OF": The received AF signal is output from the speaker jack. (When no external speaker is connected, the AF signal is output from the internal speaker.)
 - "AL": The received AF signal is output from both internal speaker and speaker jack.
 - "IN": The received AF signal is output from the internal speaker.
- ⑤ Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.