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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-M34. You'll find the answers to all your questions on the ICOM IC-M34 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER
IC-M34

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

Icom Inc.



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Manual abstract:

5 cm with the FCC RF exposure limits for "Occupational Use Only". In addition, your Icom radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans: · FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields. · American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. · American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields RF and Microwave. @@@@ @@@@ · DO NOT transmit for more than 50% of total radio use time ("50% duty cycle"). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "TX indicator" lights red. You can cause the radio to transmit by pressing the "PTT" switch.

· ALWAYS keep the antenna at least 2.5 cm (1 inch) away from the body when transmitting and only use the Icom belt-clips which are listed on page 29 when attaching the radio to your belt, etc., to ensure FCC RF exposure compliance requirements are not exceeded. To provide the recipients of your transmission the best sound quality, hold the antenna at least 5 cm (2 inches) from your mouth, and slightly off to one side. The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility During transmissions, your Icom radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites. Occupational/Controlled Use The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. C A U T I O N i N C A S E O F E M E R G E N C Y If your vessel requires assistance, contact other vessels and the Coast Guard by sending a distress call on Channel 16.

RECOMMENDATION CLEAN THE TRANSCEIVER THOROUGHLY WITH FRESH WATER after exposure to saltwater, and dry it before operation. Otherwise, the transceiver's keys, switches and controllers may become unusable due to salt crystallization. NOTE: DO NOT wash the transceiver in water if there is any reason to suspect the waterproofing may not be effective. For example, in cases where the battery pack rubber seal is damaged, the transceiver/battery pack is cracked or broken, or has been dropped, or when the battery pack is detached from the transceiver. USING CHANNEL 16 DISTRESS CALL PROCEDURE 1. "MAYDAY MAYDAY MAYDAY." 2. "THIS IS ...

.....

"
" (name of vessel) 3. Your call sign or other indication of the vessel. 4. "LOCATED AT ...

.....

"
" (your position) 5. The nature of the distress and assistance required.

6. Any other information which might facilitate the rescue. ii FOREWORD Thank you for purchasing this Icom radio. The IC-M34 VHF MARINE TRANSCEIVER is designed and built with Icom's state of the art technology and craftsmanship. With proper care this radio should provide you with years of trouble-free operation. FEATURES Submersible construction Built tough to withstand the punishing marine environment, the IC-M34's submersible construction meets IPX7 of the corresponding International Standard IEC 60529 (2001) while using BP-251 (option) or BP-252. IMPORTANT READ ALL INSTRUCTIONS pletely before using the transceiver. carefully and com- Floating on water The IC-M34 floats on fresh or salt water even when the supplied accessories are attached. · When third-party battery pack, strap, antenna, etc. is used, it may sink.

· The battery contacts may be prone to rusting if the transceiver is kept floating in fresh or salt water. SAVE THIS INSTRUCTION MANUAL--This instruction manual contains important operating instructions for the IC-M34. Large, easy-to-read LCD EXPLICIT DEFINITIONS DEFINITION Personal injury, fire hazard or electric shock RWARNING may occur. CAUTION NOTE iii Equipment damage may occur. If disregarded, inconvenience only. No risk of personal injury, fire or electric shock. WORD With dimensions of 16(H) x 32(W) mm; 5/8(H) x 11/4(W) inch, the IC-M34's function display is easy to read and shows operating conditions at a glance. Backlighting and contrast can be adjusted to suit your preferences. Simple operation 9 large buttons on the front panel provide user-friendly operation. The independent volume and channel buttons are located on the front panel for convenient one-hand operation.

PRECAUTIONS RWARNING! NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock. RWARNING! NEVER hold the transceiver so that the antenna is closer than 2.5 cm (1 inch) from exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm (2 to 4 inches) away from the lips and the transceiver is vertical.

BE CAREFUL! The transceiver employs waterproof construction, which corresponds to IPX7 of the international standard IEC 60529 (2001). However, once the transceiver has been dropped, waterproofing cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, etc. the flexible antenna and battery pack are securely attached to the transceiver, and that the antenna and battery pack are dry before attachment. Exposing the inside of the transceiver to water will result in serious damage to the transceiver. After exposure to water, clean the battery contacts thoroughly with fresh water and dry them completely to remove any water or salt residue.

For U.S.A. only MAKE SURE NEVER connect the transceiver to a power source other than the BP-251 (option) or BP-252. Such a connection will ruin the transceiver. in areas with temperatures below 20°C (4°F) or above +60°C (+140°F). AVOID using or placing the transceiver in direct sunlight or KEEP the transceiver out of the reach of children. KEEP the transceiver at least 0.9 meters (3.0 ft) away from your vessel's magnetic navigation compass.

Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations. CAUTION: BE CAREFUL! The transceiver's right-side panel will become hot when operating continuously for long periods.



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..... 29 6 7 8 3 9 4 10 11 12 13 v OPERATING RULES D Priorities · Read all rules and regulations pertaining to priorities and keep an up-to-date copy handy. Safety and distress cGroove Battery pack Incorrect position Battery pack 3 3 q PANEL DESCRIPTION I Front, top and side panels w e q POWER SWITCH [PWR] Push and hold to turn power ON and OFF. w SPEAKER-MICROPHONE CONNECTOR [SP MIC] (p. 25) Connects the optional external speaker-microphone. NOTE: Attach the [SP MIC] cap when the optional speaker-microphone is not used. Otherwise, water will get into the transceiver.

q q Attach the [SP MIC] cap. !2 Microphone Speaker Function display (pgs. 6, 7) !1 !0 o r t y u i w Then rotate it clockwise completely. e ANTENNA CONNECTOR (p. 2) Connects the supplied aDOUT Indicates the selected operating channel number. In set mode, indicates the selected condition. !6 CHANNEL GROUP INDICATOR (p. 9) U "U" appears when U.S.A.

; " " appears when InternaC tional; "C" appears when Canadian channel group is selected. !7 WEATHER CHANNEL/WEATHER ALERT INDICATORS (p. 9) "WX" appears when the weather channel group is selected. "WX ALT" appears while the weather alert function is activated; blinks when the alert tone is received. !8 LOW POWER INDICATOR (p.

10) "LOW" appears when low power is selected. "LOW" blinks when switching forced low power mode because of a high temperature error or low voltage. 3 7 4 BASIC OPERATION I Channel selection IMPORTANT!: Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. To avoid damage to the transceiver, turn the power OFF while charging. D Channel 9 (Call channel) Each regular channel group has separate leisure-use call channels.

The call channel is monitored during Tri-watch. The call channels can be programmed (p. 11) and are used to store your most often used channel in each channel group for quick recall. q Push and hold [9] (16) for 1 sec. to select the call channel of the selected channel group. · "CALL" and call channel number appear. · Each channel group may have an independent call channel after programming a call channel. (p. 11) D Channel 16 Channel 16 is the distress and safety channel. It used for establishing initial contact with a station and for emergency communications.

Channel 16 is monitored during both Dualwatch and Tri-watch. While standing by, you must monitor Channel 16. q Push [16] momentarily to select Channel 16. @@@@ (p. @) These channel groups may be specified for the operating area. @@@@ (p. @@@@ (p. 18) 4 w Push and hold [U/I/C] (CH/WX) for 1 sec. to change the channel group. @@ channels once or twice.

Push and hold for 1 sec. Weather alert is OFF. @@q Push and hold [PWR] to turn power ON. w Set the audio and squelch levels. Z Push [SQL], and push [Z] several times to open the squelch.

YZ Push [VOL], then push [Y]/[Z] to adjust the volume level. @@@@ This timer cuts a transmission OFF after 5 min.

@@@@@q Push and hold [U/I/C] (CH/WX) for 1 sec. @@ (p. 9) w Push and hold [9] (16) for 1 sec.

@@@· There are 31 volume levels and OFF. @@@@ YZ q Push [SQL], then adjust the squelch level with [Y]/[Z]. · "SQL" indicator starts blinking. · There are 11 squelch levels to choose from: OP is completely open; 10 is tight squelch; 1 is loose squelch. · If no key is pushed for

5 sec., the transceiver returns to normal operation. I Lock function This function electronically locks all keys (except for [PTT], YZ [SQL-MONI], [VOL-MUTE], [H/L-LOCK] and [Y]/[Z]*) to prevent accidental channel changes and function access. * After pushing [VOL-MUTE] or [SQL-MONI] only. Push and hold [LOCK] (H/L) for 1 sec. to turn the lock function ON and OFF.

Appears while the lock function is used. w Push [SQL] again to return to normal condition. Push and hold for 1 sec. Indicates the squelch level. Blinks during squelch level adjustment. I Automatic backlighting This function is convenient for nighttime operation. The automatic backlighting can be activated in set mode. (p. 19) Push any key except for [PTT] to turn the backlighting ON. · The backlighting is automatically turned OFF after 5 sec.

of inactivity. 12 BASIC OPERATION 4 I Monitor function The monitor function opens the squelch. See p. 5 for details of the monitor key action. The monitor function activates while pushing and holding [MONI] (SQL).

· " " blinks and audio is emitted. Blinks while the monitor function is used. 4 Push and hold I AquaQuake water draining function The IC-M34 uses a new technology to clear water away from the speaker grill: AquaQuake. AquaQuake helps drain water away from the speaker housing (water that might otherwise muffle the sound coming from the speaker). The IC-M34 emits a vibrating beep when this function is being used.

Push and hold both [SCAN] and [H/L]. · A low beep tone sounds for 9 sec. to drain water, regardless of volume level setting. · The transceiver does not perform key operations while the AquaQuake function is activated. The AquaQuake function can not be activated when an optional speaker-microphone is connected. 13 5 SCAN OPERATION I Scan types Scanning is an efficient way to locate signals quickly over a wide frequency range. The transceiver has priority scan and normal scan. In addition, the weather alert and auto scan functions are available for standby convenience.



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These functions can be activated simultaneously, depending on the setting in set mode. (pgs.

18, 19) **PRIORITY SCAN CH 01 CH 02** Set the TAG channels (scanned channels) before scanning. Clear any TAG channels which inconveniently stop scanning, such as digital communications. Choose priority or normal scan in set mode. (p. 18) **NORMAL SCAN CH 01 CH 02 WX* CH 16 CH 03 WX* CH 03 CH 05 CH 04 CH 05 CH 04** *Previously selected weather channel when weather alert function is ON. *Previously selected weather channel when weather alert function is ON. Priority scan searches through all TAG channels in sequence while monitoring Channel 16. When a signal is detected on Channel 16, scan pauses until the signal disappears; when a signal is detected on a channel other than Channel 16, scan becomes dualwatch until the signal disappears. 14 Normal scan, like priority scan, searches through all TAG channels in sequence. However, unlike priority scan, Channel 16 is not checked unless Channel 16 is set as a TAG channel.

SCAN OPERATION 5 I Setting TAG channels For more efficient scanning, set the desired channels as TAG channels or clear the TAG setting from unwanted channels. Channels that are not tagged will be skipped during scanning. @@q Push and hold [U/I/C] (CH/WX) for 1 sec. several times to select the desired channel group, if desired. w Select the desired channel to be set as a TAG channel.

e Push and hold [TAG] (FAV) for 1 sec. to set the displayed channel as a TAG channel. ." " appears in the function display. @@" disappears. @@" (pgs. 18, 19) q Push and hold [U/I/C] (CH/WX) for 1 sec. @@@@ according to the scan resume timer setting. @@@@ (p. 19) w Select the desired channel. e Push and hold [DUAL] (SCAN) for 1 sec. @@" - A beep tone sounds when a signal is received on Channel 16. @@@@ **DUALWATCH/TRI-WATCH SIMULATION** Call channel r To cancel dualwatch/tri-watch, push [SCAN] again. [Example]: Operating Tri-watch on INT channel 07. Tri-watch starts. Signal is received on call channel.

Dualwatch Tri-watch · If a signal is received on Channel 16, dualwatch/tri-watch pauses on Channel 16 until the signal disappears. · If a signal is received on the call channel during Tri-watch, Tri-watch becomes Dualwatch until the signal disappears. · To transmit on the selected channel during Dualwatch/Triwatch, push and hold [PTT]. Tri-watch resumes after the signal disappears. Signal received on Channel 16 takes priority. 16 **SET MODE I Set mode programming** Set mode is used to change the settings for 12 transceiver functions: beep tone function, weather alert function, priority scan function, scan resume timer, auto scan function, dual/triwatch function, monitor key action, automatic backlighting, LCD contrast setting, power save function, squelch sensitivity and low fix function*. *Appears only when the optional battery case is attached. 7 D Set mode operation q Turn power OFF. w While pushing [SQL], turn power ON to enter set mode. · "bP" appears.

YZ e Push [SQL] or [Y]/[Z] while pushing and holding [SQL] to select the desired item, if necessary. YZ r Push [Y]/[Z] to select the desired setting of the item. t To exit set mode, push [16]. 6 7 D **SET MODE ITEMS** · Low fix* (The display shows the current settings, and the selected function is displayed in the dotted circle.) · Beep tone · Weather alert · Priority scan · Scan resume timer Starting item · Squelch sensitivity : Push or + [Y] *Appears only when the optional battery case is attached.

· Auto scan : Push · Power save · LCD contrast + [Z] · Automatic backlighting · Monitor key action · Dual/Tri-watch 17 7 **SET MODE I Set mode items D** Beep tone function · US : The preset beeps (e.g. do, re, mi) sound · ON : A fixed beep sounds (default) · OFF: Silent operation "bP" D Priority scan function "Pr" Select the key touch beep sound from ON or US, or turn sound OFF. The transceiver has 2 scan types-- normal (OFF) and priority (ON) scans. Normal scan searches all TAG channels in the selected channel group.

Priority scan searches all TAG channels in sequence while monitoring Channel 16. Push Push Normal scan (default) Beep tone ON (default) Beep tone OFF Priority scan D Weather alert function "AL" D Scan resume timer "St" A NOAA broadcast station transmits a weather alert tone before any important weather announcements. When the weather alert function is turned ON and the transceiver detect the alert, "WX ALT" indicator blinks and a beep tone sounds. The blinking stops when the transceiver is operated. The currently selected weather channel is checked when the power save function is turned ON or while scanning. · "ALT" appears when the function is set ON. The scan resume timer can be set as a pause (OFF) or timer scan (ON). When OFF is selected, the scan pauses until a received signal disappears. When ON is selected, the scan pauses for 5 sec. after receiving a signal and then resumes even if the signal is being received.

Push Scan resume timer OFF (default) Scan resume timer ON Push Weather alert function OFF (default) Weather alert function ON 18 **SET MODE 7 D Auto scan function "AS" D Monitor key action "Sq"** The auto scan function starts the desired scan automatically when no signal is received, and no operation is performed for 30 sec. The monitor key opens the squelch temporarily. This key action contains PUSH (Pu) or HOLD (Ho) settings as shown below. · Pu (PUSH): After pushing [MONI] (SQL) for 1 sec., the squelch opens and emits audio. The squelch is held open while continuously pushing and holding [MONI] (SQL). (default) · Ho (HOLD): After pushing [MONI] (SQL) for 1 sec., the squelch opens and emits audio even while [MONI] (SQL) is released. To close the squelch, push any key. Push Auto scan OFF (default) Auto scan ON 7 D Dual/Tri-watch function "dt" Push Push setting (default) Hold setting This item selects dual or tri-watch as desired.

See p. 16 for details. Push Dualwatch function (default) Tri-watch function D Automatic Backlighting "bL" This function is convenient for nighttime operation. The backlight can be selected from ON and OFF. · The backlight is automatically activated when any key except for [PTT] is pushed. · The backlight is automatically turned OFF after 5 sec. of inactivity. Push Auto backlighting ON (default) Auto backlighting OFF 19 7 **SET MODE "LC" D Squelch sensitivity "SS" D LCD contrast setting** Set the LCD contrast level from High contrast or Low contrast. NOTE: The LCD contrast level between High contrast and Low contrast makes no difference indoors.



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When this function is turned ON, rejection of noise is improved so that the squelch is not easily affected by noise.

Push Squelch sensitivity OFF (default) Low contrast Squelch sensitivity ON Push High contrast (default) D Low fix function "LF" D Power save function · ON "PS" The power save function reduces current drain by deactivating the receiver circuit for preset intervals. : The power save function is turned ON. The power save function will activate when no signal is received, and no operation is performed for 5 sec. · OFF : The power save function is turned OFF. (Appears only when the optional battery case is attached.) When this function is turned ON, the output power is fixed to low except for channel 16. Push Low fix function OFF (default) Low fix function ON Push Power save ON (default) Power save OFF 20 BATTERY CHARGING I Battery caution Misuse of Lithium-Ion batteries may result in the following hazards: smoke, fire, or the battery may rupture. Misuse can also cause damage to the battery or degradation of battery performance. R DANGER! Use and charge only specified Icom battery pack with Icom radios or Icom charger. Only Icom battery pack is tested and approved for use and charge with Icom radios or Icom charger.

Using third-party or counterfeit battery packs or charger may cause smoke, fire, or cause the battery to burst. 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 R DANGER! NEVER use or leave battery pack in areas with temperatures above +60°C (+140°F). High temperature buildup in the battery, such as could occur near fires or stoves, inside a sun-heated car, or by setting the battery in direct sunlight may cause the battery to rupture or catch fire. Excessive temperatures may also degrade battery performance or shorten battery life. R DANGER! DO NOT expose the battery to rain, snow, seawater, or any other liquids. Do not charge or use a wet battery. If the battery gets wet, be sure to wipe it dry before using. The battery by itself is not waterproof. R DANGER! NEVER incinerate a used battery pack since internal battery gas may cause them to rupture or may cause an explosion. R DANGER! NEVER solder the battery terminals, or NEVER modify the battery pack.

This may cause heat generation, and the battery may rupture, emit smoke or catch fire. R DANGER! Use the battery only with the transceiver for which it is specified. Never use a battery with any other equipment, or for any purpose that is not specified in this instruction manual. R DANGER! If fluid from inside the battery gets in your eyes, blindness can result. Rinse your eyes with clean water, without rubbing them, and see a doctor immediately. D Battery caution R DANGER! DO NOT hammer or otherwise impact the battery. Do not use the battery if it has been severely impacted or dropped, or if the battery has been subjected to heavy pressure. Battery damage may not be visible on the outside of the case. Even if the surface of the battery does not show cracks or any other damage, the cells inside the battery may rupture or catch fire. 21 8 BATTERY CHARGING D Charging caution R DANGER! NEVER charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun-heated car, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging. WARNING! DO NOT charge or leave the battery in the battery charger beyond the specified time for charging. If the battery is not completely charged by the specified time, stop charging and remove the battery from the battery charger. Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture. WARNING! NEVER insert the battery and transceiver (battery attached to the transceiver) into the charger if it is wet or soiled. This could corrode the battery charger terminals or damage the charger. The charger is not waterproof. CAUTION! DO NOT charge the battery outside of the specified temperature range: ±0°C to +40°C (+32°F to +104°F). Icom recommends charging the battery at +20°C (+68°F). The battery may heat up or rupture if charged out of the specified temperature range.

Additionally, battery performance or battery life may be reduced. WARNING! Immediately stop using the battery if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your Icom dealer or distributor. WARNING! Immediately wash, using clean water, any part of the body that comes into contact with fluid from inside the battery. WARNING! NEVER put the battery in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause overheating, a fire, or cause the battery to rupture. CAUTION! Always use the battery within the specified temperature range for the transceiver (20°C to +60°C; 4°F to +140°F) and the battery itself (20°C to +60°C; 4°F to +140°F). Using the battery out of its specified temperature range will reduce the battery's performance and battery life. CAUTION! Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above +50°C; +122°F) for an extended period of time. If the battery must be left unused for a long time, it must be detached from the radio after discharging.

You may use the battery until the battery indicator shows halfcapacity (), then keep it safely in a cool dry place with the temperature between 20°C to +20°C (4°F to +68°F). 22 BATTERY CHARGING 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 I Supplied battery charger i Charging connections Do not charge batteries other than the BP-252. q Attach the BC-173 to a flat surface, such as a desk, if desired. w Connect the AC adapter as shown below. e Insert the battery pack with/without the transceiver into the charger.

· The charge indicator lights orange. · The charge indicator blinks orange (or orange/green alternately) when the protector is activated. I Optional battery case When you would like to use the optional AAA(LR03) size battery case (BP-251), install the batteries as illustrated below. Be sure to observe the correct polarity. CAUTION: · When installing batteries, make sure they are all the same brand, type and capacity.

Also, do not mix new and old batteries together. · Keep battery contacts clean. It's a good idea to clean battery terminals once a week. · When using the optional battery case, output power level is 2 W (at high). NOTE: The transceiver may sink when the optional battery case is attached. (Depends on the weight of the installed batteries.) r Charge the battery pack approx. 10 hours, depending on the remaining battery charge. · The charge indicator lights green when charging is completed.



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Charge indicator lights orange when the battery pack (with/without the transceiver) is inserted.

@@@ @@@@ @@@@2 hours, depending on the remaining battery charge. · The charge indicator lights green when charging is completed. NOTE: The battery charger, BC-162, has a charging timer. The timer stops the charging process after 4 hours (approx.). Battery pack Transceiver Turn power OFF · For added stability Eyelet: Use a rubber band to secure the transceiver, if desired. Charge indicator BC-162 AC adapter (Optional for some versions) 24 OPTIONAL SPEAKER-MICROPHONE IHM-165 descriptions Alligator type clip To attach the speaker-mic. to your shirt or collar, etc. PTT switch Transmits during push. Receives during release.

Microphone Speaker Turn the transceiver power OFF when connecting the HM-165. 9 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 I Attachment Turn power OFF before attaching the speaker-microphone. Then, insert the speaker-mic connector onto the [SP MIC] connector and carefully screw it tight, as shown in the diagram below. Be careful not to cross-thread the connection. @@If the cover is not attached, water will get into the transceiver.

@@@@@@NOTE: The microphone is located at the top of the speaker-microphone, as shown in the diagram above. To maximize the readability of your transmitted signal (voice), hold the microphone approx. 2.5 cm (1 inch) from your mouth, and speak in a normal voice level. w q Attaching: Attach the [SP MIC] cap (q), then rotate it clockwise completely (w).

q w 25 10 TROUBLESHOOTING POSSIBLE CAUSE SOLUTION REF. p. 23 p. 3 p. 12 p. 11 p. 13 pgs. 8, 9, 27 p. 23 -- p. 10 PROBLEM The transceiver does not work.
· The battery is exhausted.

· Recharge the battery pack. not turn ON. · The battery pack is not attached correctly. · Attach the battery pack correctly. No sound from speaker. · Squelch level is too high. · Volume level is too low. · Speaker has been exposed to water. · Set squelch to the threshold point. YZ · Push [Y]/[Z] after pushing [VOL] to set a suitable level.

· Drain water from the speaker. Transmitting is impossible, or high power can receive only. · Change channels. Recharge the battery pack. · The battery is exhausted.

not be selected. · Verify the battery voltage is correct. · The battery over charged. · Push [H/L] to select high power. · The output power is set to low. The displayed channel · Lock function is activated. cannot be changed. Scan does not start. No beeps. Battery voltage error · "TAG" channels are not programmed. · Beep tone function is turned OFF. · Push and hold [LOCK] (H/L) for 1 sec. to p. 12 cancel the function. · Set the desired channels as "TAG" channels.

p. 15 · Set the beep tone to ON (Fix Beep/User p. 18 Beep) in set mode. -- · The connected battery pack's voltage is more than 11 V. 26 VHF MARINE CHANNEL LIST Channel number USA INT CAN 01 01 01A 02 02 03 03 03A 04 04A 05 05A 05A 06 06 06 07 07A 07A 08 08 08 09 09 09 10 10 10 11 11 11 12 12 12 13* 13* 13 14 14 14 15* 15* 15* 16 16 16 17 17* 17* 18 18A 18A 19 19A 19A 20 20 20* 20A * Low power only.

Frequency (MHz) Transmit Receive 156.050 160.650 156.050 156.

050 156.100 160.700 156.150 160.750 156.

150 156.150 156.200 160.800 156.200 156.

200 156.250 160.850 156.250 156.250 156.300 156.300 156.350 160.950 156.350 156.

350 156.400 156.400 156.450 156.450 156.500 156.500 156.550 156.550 156.600 156.

600 156.650 156.650 156.700 156.700 156.

750 156.750 156.800 156.800 156.850 156.

850 156.900 161.500 156.900 156.900 156.950 161.550 156.950 156.950 157.000 161.

600 157.000 157.000 Channel number USA INT CAN 21 21 21A 21A 21b 22 22A 22A 23 23 23A 24 24 24 25 25 25 25b 26 26 26 27 27 27 28 28 28 28b 60 60 61 61A 61A 62 62A 63 63A 64 64 64A 64A 65 65A 65A 65A 66 66A 66A 66A* 67* 67 67 Frequency (MHz) Transmit Receive 157.050 161.650 157.050

157.050 Rx only 161.650 157.100 161.700 157.

100 157.100 157.150 161.750 157.150 157.

150 157.200 161.800 157.250 161.850 Rx only 161.

850 157.300 161.900 157.350 161.950 157.400 162.000 Rx only 162.000 156.025 160.625 156.

075 160.675 156.075 156.075 156.125 160.725 156.125 156.125 156.175 160.775 156.

175 156.175 156.225 160.825 156.225 156.

225 156.275 160.875 156.275 156.275 156.

325 160.925 156.325 156.325 156.375 156.375 Channel number USA INT CAN 68 68 68 69 69 69 70 70 70 71 71 71 72 72 72 73 73 73 74 74 74 75* 75* 75* 76* 76* 76* 77* 77 77* 78 78A 78A 79 79A 79A 80 80A 80A 81 81A 81A 82 82A 82A 83 83 83A 83A 83b 84 84 84 84A 85 85 85 85A 86 86 86 Frequency (MHz) Transmit Receive 156.425 156.425 156.475 156.475 RX only 156.

(MHz) Transmit Receive 156.425 156.425 156.475 156.475 RX only 156.

525 156.575 156.575 156.625 156.625 156.675 156.675 156.725 156.725 156.775 156.

775 156.825 156.825 156.875 156.875 156.

925 161.525 156.925 156.925 156.975 161.

575 156.975 156.975 157.025 161.625 157.025 157.025 157.075 161.675 157.075 157.

075 157.125 161.725 157.125 157.125 157.175 161.775 157.175 157.175 Rx only 161.775 157.

225 161.825 157.225 157.225 157.275 161.

875 157.275 157.275 157.325 161.925 Channel number USA INT CAN 86A 87 87 87 87A 88 88 88 88A 11 Frequency (MHz) Transmit Receive 157.

325 157.325 157.375 161.975 157.375 157.375 157.425 162.025 157.425 WX channel 1 2 3 4 5 6 7 8 9 10 Frequency (MHz) Transmit Receive RX only 162.

550 RX only 162.400 RX only 162.475 RX only 162.425 RX only 162.450 RX only 162.500 RX only 162.525 RX only 161.650 RX only 161.775 RX only 163.275 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 NOTE: Simplex channels, 3, 21, 23, 61, 64, 81, 82 and 83 CANNOT be lawfully used by the general public in U.

S.A. waters. 27 12 SPECIFICATIONS i RECEIVER : Transmit 156.025157.

425 MHz Receive 156.050163.275 MHz : FM (16K0G3E) : 25 kHz : BP-251 and BP-252 only : TX High (5 W) 1.5 A TX Low (1 W) 0.7 A Max.
audio 0.2 A Power save 20 mA typical : ± 10 ppm (20°C to +60°C) : 20°C to +60°C; 4°F to +140°F : 62 (W) \times 141.5(H) \times 43(D) mm 27/16(W) \times 59/16(H)
 \times 111/16(D) inch : Approx. 305 g (10.7 oz) : Double-conversion superheterodyne · Sensitivity (12 dB SINAD) : 0.25 μ V typical · Squelch sensitivity : 0.35 μ V
typical (at threshold) · Intermodulation rejection ratio : 70 dB typical · Spurious response rejection ratio : 70 dB typical · Adjacent channel selectivity : 70 dB
typical · Audio output power : 0.35 W typical at 10% distortion with an 8 load All stated specifications are subject to change without notice or obligation. ·
Receive system i GENERAL · Frequency coverage · Mode · Channel spacing · Power supply requirement · Current drain (at 7.4 V DC) · Frequency stability ·
Useable temperature range · Dimensions (Projections not included) · Weight (with BP-252, FA-SC58V and MB-109) i TRANSMITTER · Output power (at 7.

4 V DC) · Modulation system · Max.



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frequency deviation · Adjacent channel power · Spurious emissions : 5 W (High) and 1 W (Low) · Variable reactance frequency modulation : ± 5 kHz : 70 dB : 68 dBc typical 28 OPTIONS D BATTERY CASE AND PACK · BP-251 BATTERY CASE Battery case for 5 \times AAA (LR03) alkaline cells. Output power level: 2 W · BP-252 Li-Ion BATTERY PACK 7.4 V/980 mAh Li-Ion battery pack. 13 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D CHARGERS · BC-173 DESKTOP CHARGER + BC-174A/E AC ADAPTER Used for regular charging of battery pack. An AC adapter is supplied with the charger depending on versions. Charging time: approx. 10 hours · BC-162 DESKTOP CHARGER + BC-145* AC ADAPTER Used for rapid charging of battery pack. Charging time: approx. 2 hours.

*Not supplied with some versions. D BELT CLIPS · MB-109 BELT CLIP The same as supplied with the transceiver. D OTHER OPTIONS · HM-165 SPEAKER-MICROPHONE Full sized waterproof (IPX7; 1m/30 min.) speaker-microphone. Includes an alligator clip to attach the speaker mic to your shirt, collar, etc.

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