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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-V80E. You'll find the answers to all your questions on the ICOM IC-V80E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ICOM IC-V80E**  
**User guide ICOM IC-V80E**  
**Operating instructions ICOM IC-V80E**  
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**Instruction manual ICOM IC-V80E**



INSTRUCTION MANUAL

VHF TRANSCEIVER

**IC-V80**  
**IC-V80E**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**WARNING:** MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIODTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

Icom Inc.



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**Manual abstract:**

We want to take a couple of moments of your time to thank you for making your IC-V80/V80E your radio of choice, and hope you agree with Icom's philosophy of "technology first." Many hours of research and development went into the design of your IC-V80/V80E. EXPLICIT DEFINITIONS WORD R DANGER! R WARNING! CAUTION NOTE DEFINITION Personal death, serious injury or an explosion may occur. Personal injury, fire hazard or electric shock may occur. Equipment damage may occur. Recommended for optimum use. No risk of personal injury, fire or electric shock. FEATURES Dust-protection/Splash-resistant construction (IP54\*) \*Only when the battery pack/case, antenna and jack cover are attached. IMPORTANT READ ALL INSTRUCTIONS carefully and completely before using the transceiver. SAVE THIS INSTRUCTION MANUAL-- This instruction manual contains important operating instructions for the IC-V80/V80E.

Built in VOX circuit enabling the VOX operation\* (voice operated transmission) \*To use the VOX operation, an optional headset and a plug adapter cable are additionally required. i PRECAUTIONS RWARNING RF EXPOSURE! This device emits Radio Frequency (RF) energy. Caution should be observed when operating this device. @@@@ Place the unit in a secure place to avoid inadvertent use by children. RWARNING! NEVER operate the transceiver with a headset or other audio accessories at high volume levels.

Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use. DO NOT use harsh solvents such as benzene or alcohol to clean the transceiver, because they can damage the transceiver's surfaces. RWARNING! NEVER operate the transceiver while driving a vehicle. Safe driving requires your full attention-- anything less may result in an accident.

ii PRECAUTIONS KEEP the transceiver away from heavy rain, and never immerse in the water. The transceiver meets IP54\* requirements for dust-protection and splash resistance. However, once the transceiver has been dropped, dust-protection and splash resistance cannot be guaranteed because of possible damage to the transceiver's case or the waterproof seal. \* Only when the battery pack/case, antenna and jack cover are attached. FCC INFORMATION · FOR CLASS B UNINTENTIONAL RADIATORS: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver.

· Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. CAUTION: Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations. NEVER operate or touch the transceiver with wet hands. This may result in an electric shock or may damage the transceiver. Even when the transceiver power is OFF, a slight current still flows in the circuits. Remove the battery pack or batteries from the transceiver when not using it for a long time. Otherwise, the installed battery pack or batteries will become exhausted, and will need to be recharged or replaced. Approved Icom optional equipment is designed for optimal performance when used with an Icom transceiver.

Icom is not responsible for the destruction or damage to an Icom transceiver in the event the Icom transceiver is used with equipment that is not manufactured or approved by Icom. iii SUPPLIED ACCESSORIES The following accessories are supplied with the transceiver. Battery pack\* Antenna Jack cover (with screws) Belt clip\* Battery charger\* AC adapter\* \* Not supplied, or the shape is different, depending on the version. Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia and/or other countries.

Microsoft, Windows and Windows Vista are registered trademarks of Microsoft Corporation in the United States and/or other countries. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 iv TABLE OF CONTENTS FOREWORD ....

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(p.

16) During memory mode operation, push to select a memory channel. (p. 24) While scanning, push to change the scanning direction. (pp. 29, 30, 31, 34) While pushing and holding [MONI], push to set the squelch level. (p. 14) During the Set mode, or Initial Set mode, push to select a desired setting item. (pp. 38, 43) [] enters or sends the DTMF code 'B.' (pp.

35, 36) [] enters or sends the DTMF code 'C.' (pp. 35, 36) i VFO/MEMORY/CALL KEY [VFO/MR/CALL] Push to select the VFO mode, memory mode, a Call channel INDICATOR (p. 17) "H" appears when high power is selected. "M" appears when middle power is selected. "L" appears when low power is selected.

!0 MEMORY CHANNEL NUMBER INDICATOR Displays the selected memory channel number. (p. 24) "C" appears when the Call channel is selected. (p. 24) !1 AUTO POWER OFF INDICATOR Displays when the Auto Power OFF function is ON. (p. 44) !2 DUPLEX INDICATOR (p. 21) "+" appears when plus duplex is selected. "" appears when minus duplex is selected.

!3 SKIP INDICATOR Appears when the selected memory channel is set as a skip channel. (p. 30) !4 FUNCTION INDICATOR Appears when the second function can be accessed. !5 TRANSMIT INDICATOR Appears while transmitting. (p.

17) 7 BATTERY CHARGING Caution (for the BP-264 Ni-MH battery) R DANGER! NEVER short terminals (or charging terminals) of the battery pack. Also, current may flow into nearby metal objects such as a necklace, so be careful when placing battery packs (or the transceiver) in handbags, etc. Simply carrying with or placing near metal objects such as a necklace, etc. may cause shorting. This may damage not only the battery pack, but also the transceiver. R DANGER! NEVER incinerate used battery packs. Internal battery gas may cause an explosion. R DANGER! NEVER immerse the battery pack in water. If the battery pack becomes wet, be sure to wipe it dry BEFORE attaching it to the transceiver. CAUTION: Always use the battery within the specified temperature range, 5°C to +60°C (+23°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 completely discharged, or in an excessive temperature environment (above +55°C; +131°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 charging. Keep it safely in a cool dry place at the following temperature range: -20°C to +45°C 20°C to +35°C 20°C to +25°C (4°F to +113°F) (up to a month) (4°F to +95°F) (up to six months) (4°F to +77°F) (up to a year\*) 3 1 2 3 4 5

6 7 8 9 10 11 12 13 14 15 16 17 18 19 8 Clean the battery terminals to avoid rust or misscontact. Keep battery terminals clean. It's a good idea to clean battery terminals once a week. If your Ni-MH battery pack seems to have no capacity, even after being charged, completely discharge it by leaving the power ON overnight. Then, fully charge the battery pack again. If the battery pack still does not retain a charge (or only very little charge), a new battery pack must be purchased. (p.

51) Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. · Recommended temperature range for charging: between +10°C and +40°C (rapid charge: with BC-191) or between 0°C and +45°C (regular charge: with BC-192) · Use the supplied charger or optional charger (BC-191 for rapid charging, BC-192 for regular charging) only. NEVER use other manufacturers' chargers. The battery pack contains a rechargeable battery. Charge the battery pack before first operating the transceiver, or when the battery pack becomes exhausted.

If you want to prolong the battery life, the following points should be observed: · Avoid over charging. The charging time period should be less than 48 hours. · Use the battery pack until it becomes almost completely exhausted, under normal conditions. We recommend battery charging after transmitting becomes impossible. \* We recommend charging the battery pack every 6 months.

3 BATTERY CHARGING Caution (for the BP-265 Li-Ion battery) Misuse of Li-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 packs with Icom radios or Icom chargers. Only Icom battery packs are tested and approved for use with Icom radios or charged with Icom chargers. Using third-party or counterfeit battery packs or chargers may cause smoke, fire, or cause the battery to burst. 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. R DANGER! NEVER incinerate a used battery pack since internal battery gas may cause it 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 burst, 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. R 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. R WARNING! Immediately wash, using clean water, any part of the body that comes into contact with fluid from inside the battery. 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. 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 in direct sunlight may cause the battery to rupture or catch fire. Excessive temperatures may also degrade battery performance or shorten battery life.

9 BATTERY CHARGING R WARNING! NEVER put the battery in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause a fire, overheating, or cause the battery to rupture. CAUTION: Always use the battery within the specified temperature range, 20°C to +60°C (4°F to +140°F).



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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 half-capacity, and then keep it safely in a cool dry place at the following temperature range: 20°C to +50°C 20°C to +35°C 20°C to +20°C (4°F to +122°F) (up to a month) (4°F to +95°F) (up to three months) (4°F to +68°F) (up to a year) 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 R

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. R WARNING! NEVER insert the 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: BC-193 (+10°C to +40°C; +50°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. 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 vehicle, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging. The supplied battery pack, charger, and AC adapter differ, or no supplied depending on the version. Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. 3 BATTERY CHARGING D Using the BC-192 to regular charge the BP-264 The BC-192 provides regular charging of only the BP-264 Ni-MH battery pack. Never use it to charge any other battery pack. Charging time (with the I47S): Approx. 16 hours The following item is additionally required: · An AC adapter (not supplied with some versions) or the OPC-515L DC power cable. AC adapter (A different type, or no AC adapter is supplied, depending on the version.

) Battery pack Transceiver Battery chargers D Using the BC-191 to rapid charge the BP-264 The BC-191 provides rapid charging of only the BP-264 Ni-MH battery pack. Never use it to charge any other battery pack. Charging time: Approx. 2 hours The following item is additionally required: · An AC adapter (not supplied with some versions) or the OPC-515L or CP-23L DC power cable. AC adapter (A different type, or no AC adapter is supplied, depending on the version.

) Battery pack Transceiver Turn power OFF Screws\* (Self tapping screw: M3.5 × at least 30 mm) \*Purchase separately. Using screws is recommended to secure the charger. Charge indicator · Lights orange : While charging · Lights green : Charging is completed. Turn power OFF Screws\* (Self tapping screw: M3.

5 × at least 30 mm) \*Purchase separately. Using screws is recommended to secure the charger. Charge indicator · Lights green while charging. NOTE: The charge indicator will not go out even after a battery pack is fully charged. 11 The optional OPC515L (for DC power source) or CP-23L (for 12 V cigarette lighter socket) can be used instead of the AC adapter. The optional OPC515L (for DC power source) can be used instead of the AC adapter. Charging time period differs depending on the input voltage. 12 V : Approx. 36 hours 13.8 V : Approx.

21 hours 16 V : Approx. 16 hours BATTERY CHARGING D Using the BC-193 to rapid charge the BP-265 The BC-193 provides rapid charging of only the BP-265 LiIon battery pack. Never use it to charge any other battery pack. Charging time: Approx. 2.5 hours The following item is additionally required: · An AC adapter (not supplied with some versions) or the OPC-515L or CP-23L DC power cable. AC adapter (A different type, or no AC adapter is supplied, depending on the version.) Battery pack Transceiver 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 12 IMPORTANT: Battery charging caution Ensure the tabs on the battery pack are correctly aligned with the guide rails inside the charger. Tabs Guide rail CAUTION: When using the OPC-515L DC power cable NEVER connect the OPC-515L to a power source using reverse polarity. This will ruin the battery charger.

Turn power OFF Screws\* (Self tapping screw: M3.5 × at least 30 mm) \*Purchase separately. Using screws is recommended to secure the charger. Charge indicator · Lights orange : While charging · Lights green : Charging is completed. White line: + Black line: The optional OPC515L (for DC power source) or CP-23L (for 12 V cigarette lighter socket) can be used instead of the AC adapter.

3 BATTERY CHARGING Battery case (BP-263) When using the battery case (BP-263), install 6 × AA (LR6) size alkaline batteries, as described below. q Remove the battery case if it is attached. (p. 2) w Install 6 × AA (LR6) size alkaline batteries. · Install only alkaline batteries.

· Be sure to observe the correct polarity. Battery information D Battery life Battery pack/case BP-263 BP-264 BP-265 Voltage Capacity Battery life\*1 --\*2 13 hrs. 19 hrs. Battery case for AA (LR6) × 6 alkaline 7.2 V 7.4 V 1400 mAh 1900 mAh (min.) 2000 mAh (typ.) e Attach the battery case. (p. 2) Be careful! The negative terminals of the battery case protrude from the body, so pay attention not to injure your fingers when inserting the batteries.

\*1 When the power save function is set to "PS.At," and the operating time is calculated under the following conditions; TX : RX : standby = 5 : 5 : 90 \*2 The average operating life depends on the alkaline cells used. 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 terminals clean. It's a good idea to clean battery terminals once a week. · Never incinerate used battery cells since the internal battery gas may cause them to rupture. · Never expose a detached battery case to water. If the battery case gets wet, be sure to wipe it dry before using it. · Never use batteries whose insulated covering is damaged.

Even when the transceiver power is OFF, a small current still flows in the transceiver.



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Remove the battery pack/case when it won't be used for a long time. Otherwise, the battery pack or the batteries in the case will become exhausted. D Battery indication The battery indicator, " ," appears when a battery pack/case is attached to the transceiver. Indicator Battery condition The battery has ample capacity.

The battery is nearing exhaustion. Charging the battery pack, or replacing the batteries in the case is necessary. 13 NOTE: When the battery case is attached, the battery protection function must be turned OFF in the Initial Set mode (p. 47). BASIC OPERATION Power ON Push and hold [ ] Push and hold [ 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 14 Adjusting the squelch level While pushing and holding [MONI], push [ ] or [ ] several times to adjust the squelch level.

"SqL 1" is loose squelch (for weak signals) and "SqL10" is tight squelch (for strong signals). "SqL 0" is open squelch. ] for 1 sec. to turn the power ON. ] for 1 sec. to turn the power OFF. Adjusting the volume level Rotate [VOL] to adjust the volume level. · If the squelch is closed, push and hold [MONI] while adjusting the volume level. · The display shows the volume level while adjusting. Monitor function This function is used to listen to weak signals or to open the squelch manually.

You can use it without disturbing the squelch setting, even when mute functions such as the tone squelch are in use. Push and hold [MONI] to monitor the operating frequency. · " " blinks while the monitor function is ON. 4 BASIC OPERATION Mode selection Push [VFO/MR/CALL] several times to select the VFO mode, memory mode, Call channel mode and weather channel mode\*, in sequence. \*For only the U.S.A. version transceivers. D Memory mode The memory mode is used for · Memory mode display operating on memory channels, which store programmed frequencies. · " " appears when the memory mode is selected.

Appears D Call channel mode D VFO mode The VFO mode is used to set · VFO mode display the operating frequency. The Call channel is used for · Call channel mode display quick recall of the most often used frequency. · "C" appears instead of the memory channel number when the Call channel mode is selected. Appears What is VFO? VFO is an abbreviation of Variable Frequency Oscillator. Frequencies for both transmitting and receiving are generated and controlled by the VFO.

D Weather channel mode\* There are 10 weather channels · Weather channel mode for monitoring weather broad- display casts from NOAA (National Oceanic and Atmospheric Administration). \*Only for the U.S.A. version transceivers.

15 BASIC OPERATION 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 16 Operating mode selection Operating modes are determined by the modulation of the radio signals. The transceiver has the FM and FM-N modes. The mode selection is independently stored for each memory channel. q Push [FUNC](M) then [SET](8) to enter the Set mode. w Push [ ] or [ ] to select the operating mode item. (W/n) e Rotate [VOL] to set the operating mode to FM or FM-N. FM mode FM-N mode Setting a frequency D Using [ ] or [ ] q Push [VFO/MR/CALL] several times to select the VFO mode. w Push [ ] or [ ] to select the desired frequency. · The frequency changes according to the preset tuning steps. See the previous topic to set the tuning step.

D Using the keypad q Push [VFO/MR/CALL] several times to select the VFO mode. w To enter the desired frequency, enter 6 digits, starting from 100 MHz digit. · Entering two or three\* to five digits, and then pushing [# ENT], also sets the frequency. (\*Depending on the version) · If a frequency outside the frequency range is entered, the previously displayed frequency is automatically recalled. r Push [# ENT] to exit the Set mode. Setting a tuning step The transceiver has 8 tuning step options; · 5 kHz · 25 kHz · 10 kHz · 30 kHz · 12.5 kHz · 50 kHz · 15 kHz · 20 kHz · Example 1-- entering 145.525 MHz Push The tuning step can be selected in the Set mode. q Push [FUNC](M), and then [SET](8) to enter the Set mode. w Push [ ] or [ ] to select the tuning step item. (tS) e Rotate [VOL] to select the 20 kHz tuning step desired tuning step. r Push [# ENT] to exit the Set mode. · Example 2-- entering 144.800 MHz Push 4 BASIC OPERATION Receiving Make sure the BP-264 or BP-265 battery pack is fully charged, or the BP-263 battery case has brand new alkaline batteries (pp. 1113).

q Push and hold [ ] for 1 sec. to turn power ON. w Rotate [VOL] to set the desired volume level. (p. 14) · The volume level is displayed on the LCD while adjusting.

Transmitting C AUTION: Transmitting without an antenna will damage the transceiver. N OTE: To prevent interference, push and hold [MONI] to listen on the frequency before transmitting. q et the operating frequency. (p. 16) S w ush [FUNC](M), and then push [H/M/L](9) to select the P output power between High (5.5 W), Mid (2.5 W) and Low (0.5 W). · "H," "M," or "L" appears according to the selected output power. e Set the receive frequency.

(p. 16) r Set the squelch level. (p. 14) · While pushing and holding [MONI], push [ ] or [ ]. · The squelch level is displayed on the LCD while setting. · "SqL 1" is loose squelch (for weak signals) and "SqL10" is tight squelch (for strong signals). "SqL 0" is open squelch. · Push and hold [MONI] to open the squelch manually. e Push and hold [PTT] to transmit. · " " appears while transmitting.

· The signal indicator shows the output power level. t When a signal is received: · The squelch is opened and the audio is heard. · The signal indicator shows the relative signal strength level. w Adjust the volume level. r Speak into the microphone using your normal voice level.

· DO NOT hold the transceiver too close to your mouth or speak too loudly. This may distort your speech. t Release [PTT] to return to receive. r For the squelch level setting. (Push to monitor) q Turn the power ON.

e Set the frequency. r Adjust the squelch level. e Push and hold to transmit. t Release to receive. Microphone Push to monitor. w Select the output power. q Set the frequency. 17 BASIC OPERATION 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 18 Key lock function To prevent accidental frequency changes, or unnecessary function access, use the key lock function. Push [FUNC](M), and then push and hold [ ](# ENT) for 1 sec. to turn the key lock function ON or OFF.

· " " appears while the key lock function is activated. · [ ], [VOL], [MONI], [PTT] and [FUNC](M) + [ ](# ENT) are still operable while the key lock function is ON.



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[VOL] function assignment [VOL] can be used as a tuning control instead of [ ] and [ ], to suit your preference. However, when [VOL] functions as a tuning control, [ ] and [ ] function as volume controls. @@w Push [ ] or [ ] to select the dial assignment item. (tOP) e Rotate [VOL] to select an option. r Push [# ENT] to exit the Initial Set mode. [VOL] [VOL] functions as the volume control. Appears [VOL] functions as the tuning control. [VOL] and [ ]/[ ] function as described below, depending on the option.

Option tOP.VO tOP.di [VOL] Volume control Tuning control [ ]/[ ] Tuning controls Volume controls 4 BASIC OPERATION U.S.A. version only q Select a weather channel. w Turn the weather alert function ON in the Set mode. Push [FUNC](M), and then [SET](8) to enter the Set mode. Push [ ] or [ ] to select the weather alert item. (ALt) Rotate [VOL] to select "ON".

" Push [# ENT] to exit the Set mode. e Set the desired stand-by mode. · Select the VFO, memory or Call channel mode. · Scan or priority watch operation can also be selected. Weather channel operation There are 10 weather channels for monitoring weather broadcasts from NOAA (National Oceanic and Atmospheric Administration). D Weather channel selection q Push [VFO/MR/CALL] several times to select the weather channel mode. · Weather channel mode display r When an alert is detected, a beep sounds, and "ALt" and the weather channel number will be alternately displayed. w Push [ ] or [ ] to select a weather channel. e Push [VFO/MR/CALL] to return to the previous frequency or memory channel. D Weather alert function NOAA broadcast stations transmit weather alert tones before important weather announcements.

When the weather alert function is ON, the selected weather channel is monitored every 5 sec. for announcements. When the alert signal is detected, the "ALt" and the WX channel number are alternately displayed, and a beep sounds until the transceiver is operated. The previously selected (used) weather channel is checked periodically during standby, or while scanning. 19 t Turn the weather alert function OFF in the Set mode. N OTE: While receiving a signal on a frequency other than the Weather alert frequency, the receiving signal will be interrupted momentarily approximately every 5 sec. when the weather alert function is ON. These interruptions cease when the weather alert function is turned OFF. P ush [FUNC](M), and then [SCAN](5) to start a weather channel scan. Push any key except [ ]/[ ], [FUNC](M) and [MONI] to stop the scan.

REPEATER AND DUPLEX OPERATION Repeater operation When using a repeater, the transmit frequency is shifted from the receive frequency by the frequency offset (p. 21). This is called duplex operation. It is convenient to program repeater information into memory channels (p. 25). Repeater 144.700 MHz 144.700 MHz Uplink (transmit freq.) Downlink (receive freq.) 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 r Push and hold [PTT] to transmit.

· The displayed frequency automatically changes to the transmit frequency (repeater input frequency). · If "OFF" appears, check the frequency offset and shift direction (p. 21). t Release [PTT] to receive. While receiving While transmitting 145.300 MHz 145.300 MHz Station A Station B y Push and hold [MONI] to check whether the other station's transmit signal can be directly received or not. q Set the receive frequency (the repeater output frequency). w Push [FUNC](M), and then [DUP](4) several times to set the shift direction of the transmit frequency. ( "" or "+" ; See page 21 for details.

) · When the auto repeater function is in use (U.S.A. version only), this selection and step e are not necessary. (p. 23). · When the other station's signal can be directly received, move to a non-repeater frequency to use simplex. (duplex OFF) For the U.S.A.

version: Auto repeater function uses standard values of the repeater tone frequency and frequency offset. e If desired, push [FUNC](M) and then [TONE](1) several times to activate the subaudible tone encoder. · " " appears. · Select the desired subaudible tone frequency. (p.

22) Appears 5 REPEATER OPERATION Duplex operation D Setting the frequency offset q Push [FUNC](M), and then [SET](8) to enter the Set mode. w Push [ ] or [ ] to select the offset item. · "±" blinks, and the current frequency offset appears. e Rotate [VOL] to select the frequency offset. · The offset is selected in the same step as the frequency tuning step.

· The unit of the frequency offset is "MHz." 0.6 MHz offset For the U.S.A. @@@@ Turn the auto repeater function OFF to prevent this (p. @@@@ The function can be set in the Set mode. q Push [FUNC](M), and then [SET](8) to enter the Set mode. w Push [ ] or [ ] to select the reverse duplex function item (REV). e Rotate [VOL] to turn the function ON or OFF.

r Push [# ENT] to exit the Set mode. @@@@RX freq. @@@@q Push [FUNC](M) then [SET](8) to enter the Set mode. w Push [ ] or [ ] to select the repeater tone item. @@@@ See page 36 for details. r Push [# ENT] to exit the Set mode. @@@@ The function can be set in the Initial Set mode. @@w Push [ ] or [ ] to select the lockout item. @@@@ Reset these frequencies, if necessary. The function can be set in the Initial Set mode.

@@w Push [ ] or [ ] to select the auto repeater item. @@@@ (p. 16) · Duplex direction (+ or ) with frequency offset (p. 21) · Reverse duplex function ON/OFF (p. 40) · Subaudible tone encoder (p. 20), tone squelch or DTCS squelch ON/OFF (p. 33) · Subaudible tone frequency (p. 22), tone squelch frequency or DTCS code with polarity (pp. 32, 33) · Skip setting (p. 30) · Tuning step (p.

16) · Output power (p. 17) · TX permission (p. @@@@w Set a desired frequency. (p. 16) If desired, set other data (e.g. offset frequency, duplex direction, tone squelch, etc.). @@@@ to store the entry. · 3 beeps sound.

· If you continue to push and hold [VFO/MR/CALL] for 1 sec. after programming, the memory channel number automatically increases. r Push [ ] or [ ] to select a desired channel. · Select "1A/1B" to "3A/3B" to program a scan edge channel. NOTE: To cancel programming, push [VFO/MR/CALL] before storing the entry in step t. · Example-- programming 145.440 MHz into memory channel 11 (a blank channel). Push , and then . Push or to select channel 11. The VFO mode Push , then push and hold for 1 sec.

to program. Return to the VFO mode. 25 MEMORY/CALL OPERATION 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 26 Copying memory/Call contents This function transfers a memory channel's contents to VFO (or another memory/Call channel). This is useful when searching for signals around a memory channel frequency and for recalling the offset frequency, subaudible tone frequency etc.



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D Memory/Callmemory/Call q Select a memory or Call channel to be copied.

Push [VFO/MR/CALL] several times to select the memory mode or the Call channel mode, and then push [ ] or [ ] to select a desired channel. w Push [FUNC](M), and then push [VFO/MR/CALL]. · "X" and "--" blink. · Do not hold [VFO/MR/CALL] for more than 1 sec., otherwise the memory contents will be copied to the VFO mode.

D Memory/CallVFO q Select a memory (Call) channel to be copied. Push [VFO/MR/CALL] several times to select the memory or Call channel mode, and then push [ ] or [ ] to select a desired channel. w Push [FUNC](M), and then push and hold [VFO/MR/ CALL] for 1 sec. to transfer the selected memory contents to the VFO mode. · The VFO mode is automatically selected. e Push [ ] or [ ] to select the target memory or Call channel. r Push [FUNC](M), and then push and hold [VFO/MR/ CALL] for 1 sec. to copy. · Example-- copying memory channel 11 to the VFO mode. Push , then push and hold for 1 sec.

Memory mode VFO mode. 6 MEMORY/CALL OPERATION Clearing memory contents The contents of programmed memories can be cleared (erased). q For only the U.S.A. version, select any mode other than the weather channel mode. w Push [FUNC](M), and then push [VFO/MR/CALL]. e Push [ ] or [ ] to select a channel to be cleared. r Perform the following operation within 1.5 sec.

, otherwise the transceiver returns to the memory mode without clearing memory. · Push [FUNC](M), and then momentarily push [VFO/MR/ CALL]. · Push [FUNC](M), and then push and hold [VFO/MR/ CALL] for 1 sec. · The channel contents are cleared. Display type During memory mode operation, the transceiver has 3 display types to suit your operating style.

Set the display type in the Initial Set mode. (p. 46) "Frequency display" Displays the programmed frequency. "Channel number display" Displays the memory channel number. Only programmed channels are displayed, and modes other than the memory mode cannot be selected.

· When the channel number display type is selected, only the following functions can be performed. · Scan function (p. 30) · Out put power setting (p. 17) · DTMF memory function (p. 35) · Key lock function (p. 18) · The scan pause timer setting, the function key timer setting, the LCD backlight setting, the VOX-related settings, the microphone gain setting, and the DTMF TX key setting in the Set mode. t Push [VFO/MR/CALL] to return to the previous mode. NOTE: Be careful!-- the contents of cleared memories CANNOT be recalled. "Channel name display" Displays the channel name you have assigned. Only programmed channels are displayed.

· If no channel name is programmed, the programmed frequency will be displayed. · Push [MONI] to display the operating frequency. 27 MEMORY/CALL OPERATION 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 28 Programming a channel name Each memory channel can be programmed with an alphanumeric name for easy recognition and can be displayed independently by channel. Up to 5 characters can be used for a channel name. @@w Push [ ]/[ ] to select the channel name display item. (dSP) e Rotate [VOL] to select the channel name display type, "dSP.nm." r Push [# ENT] to exit the Initial Set mode. t Push [VFO/MR/CALL] several times to select the memory mode. · Select the Call channel to program a Call channel name.

[VOL] i Rotate [VOL] to select a desired character. · The selected character blinks. @@@@ @@@@ q Push [VFO/MR/CALL] several times to select the VFO mode. w Push [FUNC](M), and then [SCAN](5) to start a scan. @@@@ @@@@ 31 · Memory/Call channel watch 5 sec.

@@@@Program them in the same manner as regular memory channels. (p. @@@@The transceiver has 2 scan resume settings, as described below. Use the Set mode to select the one which best suits your needs. q Push [FUNC](M), and then [SET](8) to enter the Set mode.

w Push [ ] or [ ] to select the scan pause timer item (SCT, or SCP). e Rotate [VOL] to select a desired scan pause option. ], [ ]/[ ], · Pause scan wP u s h [ F U N C ] ( M ) , t h e n [ S C A N ] ( 5 ) to start the scan. · To change the scan direction, push [ ] or [ ]. e To cancel the scan, push any key except [ [MONI] or [FUNC](M). The scan pauses until the received signal disappears, and then resumes after 2 sec. · Timer scan Setting skip channels In order to speed up the scan rate, you can set the memory channels you don't want to scan as skip channels. q Select a memory channel to be skipped. Push [VFO/MR/CALL] several times to select the memory mode, and then push [ ] or [ ] to select a desired channel. w Push [FUNC](M), and then [SKIP](6) to turn the skip setting ON or OFF.

· "SKIP" appears when the channel is set as a skip channel. Appears The scan pauses for 5 sec., 10 sec. or 15 sec., and then resumes. r Push [# ENT] to exit the Set mode. [VOL] Pause scan Timer scan (15 sec.) 7 SCAN OPERATION Priority watch A priority watch checks for signals on "priority channels" while operating on a VFO frequency. D Memory scan watch While operating on a VFO frequency, a memory scan watch checks for signals on each memory channel in sequence, every 5 sec. q Push [VFO/MR/CALL] several times to select the memory mode.

w Push [FUNC](M), and then [SCAN](5) to start a memory scan. e Push [FUNC](M), and then [PRIO](7) to start the watch. · The VFO mode is selected, and the decimal point ".", on the frequency readout blinks. · When a signal is detected on a channel, the watch resumes according to the scan resume setting.

(p. 30) Memory scan VFO frequency Mch 0 Mch 1 Mch 2 D Memory or Call channel watch While operating on a VFO frequency, the memory or Call channel watch checks for signals on the selected channel every 5 sec. q Select a desired memory channel or the Call channel. w Push [FUNC](M), and then [PRIO](7) to start the watch. · The decimal point ".

", on the frequency readout blinks. · When a signal is detected on the channel, the watch resumes according to the scan resume setting. (p. 30) VFO frequency Memory channel 5 sec. SKIP e To cancel the watch, push any key except [ [MONI], [FUNC](M), or [PTT]. ], [ ]/[ ], 5 sec. Mch 199 r To cancel the watch, push any key except [ [MONI], [FUNC](M), or [PTT]. ], [ ]/[ ], 31 TONE SQUELCH AND POCKET BEEP Tone/DTCS squelch and pocket beep D Tone squelch and DTCS squelch The tone squelch (CTCSS) or DTCS squelch opens only when receiving a signal that includes a matched CTCSS tone or DTCS code, respectively. You can silently wait for calls using the same tone or code. Separate tone frequencies can be set for repeater and tone squelch/pocket beep operation.

8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 32 D Setting CTCSS tone or DTCS code q Push [FUNC](M), and then [SET](8) to enter the Set mode. w Push [ ] or [ ] to select the CTCSS tone item (Ct) or the DTCS code item (dt).



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· " " blinks when selecting the CTCSS tone item, and "D " blinks when selecting the DTCS code item. D Pocket beep The pocket beep function uses subaudible tones or DTCS codes for calling, and can be used as a "common pager" to inform you that someone has called while you were away from the transceiver. · Recommended CTCSS tones 67.0 69.3 71.9 74.4 77.0 79.7 82.5 85.4 88.5 91.5 94.8 97.4 100.0 103.5 107.2 110.9 114.8 118.8 123.0 127.3 131.8 136.5 141.3 146.2 151.4 156.

7 162.2 167.9 173.8 179.9 e Rotate [VOL] to select a desired CTCSS tone or DTCS code. · The recommended CTCSS tone or DTCS code are shown to the left. r Push [# ENT] to exit the Set mode. CTCSS tone setting (unit: Hz) 186.2 192.8 203.5 210.7 218.1 225.7 233.6 241.

8 250.3 [VOL] DTCS code setting · Recommended DTCS code 023 025 026 031 032 043 047 051 054 065 071 072 073 074 114 115 116 125 131 132 134 143 152 155 156 162 165 172 174 205 223 226 243 244 245 251 261 263 265 271 306 311 315 331 343 346 351 364 365 371 411 412 413 423 431 432 445 464 465 466 503 506 516 532 546 565 606 612 624 627 631 632 654 662 664 703 712 723 731 732 734 743 754 8 TONE SQUELCH AND POCKET BEEP D Operation q Set a desired operating frequency, and then a CTCSS tone or a DTCS code. w Push [FUNC](M), and then [TONE](1). · Repeat step w several times to activate a desired tone function. Push , and then to select the tone function in sequence.

D Setting DTCS polarity For DTCS operation, the polarity setting is also configurable, as well as the code setting. If the polarity is different, the DTCS squelch never opens, even when receiving a signal that includes a matched DTCS code. q Push [FUNC](M), and then [SET](8) to enter the Set mode. w Push [ ] or [ ] to select the DTCS polarity item (dtP). e Rotate [VOL] to select a desired polarity setting between "dtP.nn" (normal), "dtP.nR" (TX: normal, RX: reverse), "dtP.Rn" (TX: reverse, RX: normal) and "dtP.RR" (reverse). Repeater tone Function OFF TX/RX: Normal polarity TX: Normal, RX: Reverse Tone squelch with pocket beep DTCS squelch TX: Reverse, RX: Normal TX/RX: Reverse polarity Tone squelch r Push [# ENT] to exit the Set mode.

DTCS squelch with pocket beep e Operate the transceiver in a normal way. 33 TONE SQUELCH AND POCKET BEEP 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 34 r When receiving a signal that includes a matched tone or code, the squelch opens and the signal can be heard. When the pocket beep function is activated. · Beep tones sound and " " blinks. To stop the beeps and blinking, push any key. · When the received signal's tone/code does not match, the squelch does not open. However, the signal indicator shows the signal strength. · To open the squelch manually, push and hold [MONI]. Tone scan By monitoring a signal from a repeater, pocket beep or squelch function operation, you can determine the subaudible tone required to access the repeater or open the squelch. q Set a frequency to be checked for a tone frequency or DTCS code.

w Push [FUNC](M), and then [TONE](1). · Repeat step w several times to activate a desired tone function. · The tone scan can be made even if the tone function is not selected. t Push [PTT] to answer. e Push [FUNC](M), and then [T. SCAN](3) to start a tone scan. · To change the scan direction, push [ ] or [ ]. r When a tone frequency or DTCS code is matched, the squelch opens and the tone frequency or code is temporarily programmed into the selected mode. · When a tone frequency or DTCS code is detected, the tone scan pauses according to the scan resume setting (p. 30) · The decoded CTCSS tone frequency or DTCS code is used according to the selected tone function type in step w.

- No indication : Cannot be used for operation. - " " : CTCSS tone encoder (repeater tone) - " " : CTCSS tone encoder/decoder - "D " : DTCS tone encoder/decoder t To cancel the scan, push any key except [ [MONI] or [FUNC](M). ], [ ]/[ ], 9 DTMF MEMORY Programming a DTMF code sequence The DTMF codes are used for autopatching, accessing repeaters, controlling other equipment, and other operations. The transceiver has 16 DTMF memory channels (d0d9, dA, dB, dC, dd, dE, dF) for storage of often-used DTMF code sequence of up to 24 digits. q Push [FUNC](M), and then [DTMF.M](0) to enter the DTMF memory mode. Push , and then . The next page appears when the 6th digit has been input. r Push keys to input a desired DTMF code sequence of up to 24 digits. · [0][9] inputs "0""9," [MONI] inputs "A," [ ] inputs "B," [ ] inputs "C," [VFO/MR/CALL] inputs "D," [M] inputs "M(E)" and [# ENT] inputs "# (F).

" " · If a digit is mistakenly input, push [PTT] momentarily, then repeat from step e. w Push [ ] or [ ] to select a desired DTMF memory channel. · If programmed, the previously programmed DTMF code is displayed. t Repeat step r until the desired code is input. y Push [PTT] to store the DTMF code sequence and exit the programming mode. · After the 24th digit is input, the transceiver automatically stores the code sequence and returns to step w. e Push [FUNC](M), and then push and hold [DTMF.M](0) for 1 sec. to enter the programming mode. · "\_\_\_\_\_" appears.

· Programmed memories will be cleared by this operation. u Push [VFO/MR/CALL] to exit the DTMF memory. · Programming mode indication The programming mode consists of 5 pages. Page 1st 2nd 3rd 4th 5th Digits 1st to 5th 6th to 10th 11th to 15th 16th to 20th 21st to 24th Indication No indication. " " appears.

" " appears. " " appears. " " blinks. Push , and then push and hold for 1 sec. 35 DTMF MEMORY 9 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 36 Transmitting a DTMF code sequence The transceiver has 3 methods of transmitting a DTMF code sequence.

Select a desired option in the Set mode. q Push [FUNC](M), and then [SET](8) to enter the Set mode. w Push [ ] or [ ] to select the DTMF TX key item (dmt). e Rotate [VOL] to select a desired option. · dmt.k : Transmits the appropriate DTMF code assigned to the pushed key. · dmt.m : Transmits the programmed DTMF code sequence in the DTMF memory channel assigned to the pushed key. · dmt.t : No DTMF code can be transmitted.

However, while pushing and holding [PTT], pushing either the [ ] or [ ] transmits a 1750 Hz tone burst signal. D Using a DTMF memory channel First, set the DTMF TX key to "dmt.m" in the Set mode. While pushing and holding [PTT], push one of the keys to transmit the programmed DTMF code sequence in the DTMF memory. · Pushing [0] to [9], [MONI](A), [ ](B), [ ](C), [VFO/MR/CALL] (D), [M](E), or [# ENT](F) transmits a DTMF code channel (d0 d9, dA, dB, dC, dD, dE or dF) respectively.



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D 1750 Hz tone To access some European repeaters, the transceiver must transmit a 1750 Hz tone burst signal. · This tone can be used as a 'Call signal' in countries out of Europe. r Push [# ENT] to exit the Set mode. First, set the DTMF TX key to "dmt.t" in the Set mode.

D Manual DTMF code transmission First, set the DTMF TX key to "dmt.k" in the Set mode. While pushing and holding [PTT], push the desired keys to transmit a DTMF code sequence manually. · Push [0][9] for "0""9," [MONI] for "A," [ ] for "B," [ ] for "C," [VFO/MR/CALL] for "D," [M] for "M," and [# ENT] for "#." While pushing and holding [PTT], push and hold either the [ ] or [ ] for 1 or 2 sec.

to transmit a 1750 Hz tone burst signal. · While pushing and holding the key, the tone is transmitted. 9 DTMF MEMORY Confirming a DTMF memory A DTMF memory can be confirmed with a DTMF tone. q Push [FUNC](M), and then [DTMF.M](0) to enter the DTMF memory mode.

w Push [ ] or [ ] to select a desired DTMF memory channel. e Push [MONI] to confirm the DTMF memory contents. · The programmed DTMF code sequence sounds. · After sounding, the transceiver exits the DTMF memory mode. The programmed DTMF code sequence sounds. Setting DTMF transfer speed When slow DTMF transmission speeds are required with DTMF memory transmission (as for some repeaters), the transceiver's rate of DTMF transmission can be adjusted in the Initial Set mode. @@w Push [ ] or [ ] to select the DTMF speed item. (dtd) e Rotate [VOL] to select a desired speed. · dtd. 1 : 100 msec.

interval; 5.0 cps rate · dtd. 2 : 200 msec. interval; 2.5 cps rate · dtd. 3 : 300 msec. interval; 1.6 cps rate · dtd. 5 : 500 msec. interval; 1.

0 cps rate (cps=characters per second) r Push [# ENT] to exit the Initial Set mode. Exits the DTMF memory mode. 37 SET MODES Set mode programming The Set mode is used to change the settings of the transceiver's functions. 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 38 D Set mode operation q Push [FUNC](M), and then [SET](8) to enter the Set mode. w Push [ ] or [ ] to select the desired item.

e Rotate [VOL] to select the option or value. r To exit the Set mode, push [# ENT]. · DTCS polarity (p. 39) · Frequency offset (p. 40) · Repeater tone frequency (p.

39) · Tone squelch frequency (p. 39) · DTCS code (p. 39) · Operating mode (p. 42) : Push · DTMF TX key (p. 42) : Push \*Appears for only the U.S.A. version transceivers. · VOX time-out timer (p. 42) NOTE: When the display type setting (pp.

27, 46) is set to "CH" in the Initial Set mode, and accessing the Set mode from the memory mode, most of Set mode items do not appear. · Reverse duplex function (p. 40) · Tuning step (p. 40) · Scan resume setting (p. 40) · VOX delay (p. 41) · Function key timer (p. 40) · Microphone gain (p. 41) · VOX gain (p. 41) · Weather alert\* (p. 41) · TX permission (p.

41) · LCD backlight (p. 41) 10 SET MODES Set mode items D Repeater tone frequency Selects one of 50 subaudible tone frequencies used to access the repeaters. · 67.0254.1 Hz (default: 88.

5 Hz) D DTCS Code Selects one of 104 DTCS (both encoder/decoder) codes. · 023754 (default: 023) · Available DTCS codes D Tone squelch frequency Selects one of tone frequencies for tone squelch or pocket beep operation. · 67.0254.1 Hz (default: 88.

5 Hz) 023 025 026 031 032 036 043 047 051 053 054 065 071 072 073 074 114 115 116 122 125 131 132 134 143 145 152 155 156 162 165 172 174 205 212 223 225 226 243 244 245 246 251 252 255 261 263 265 266 271 274 306 311 315 325 331 332 343 346 351 356 364 365 371 411 412 413 423 431 432 445 446 452 454 455 462 464 465 466 503 506 516 523 526 532 546 565 606 612 624 627 631 632 654 662 664 703 712 723 731 732 734 743 754 · Usable subaudible tone frequencies 67.0 69.3 71.9 74.4 77.0 79.7 82.5 85.4 88.5 91.

5 94.8 97.4 100.0 103.5 107.2 110.9 114.8 118.8 123.0 127.

3 131.8 136.5 141.3 146.2 151.

4 156.7 159.8 162.2 165.5 167.

9 171.3 173.8 177.3 179.9 183.5 186.2 189.9 192.8 196.6 199.

5 (unit: Hz) 203.5 206.5 210.7 218.1 225.7 229.1 233.6 241.8 250.3 254.

1 D DTCS Polarity Selects the DTCS polarity between "dtP.nn" (normal), "dtP.nR" (TX: normal, RX: reverse), "dtP.Rn" (TX: reverse, RX: normal) and "dtP.RR" (reverse).

(default: dtP.nn) The DTCS code's polarity for transmitting or receiving can be independently set by this item. The transceiver has 50 tone frequencies and consequently their spacing is narrow compared with units having 38 tones. Therefore, some tone frequencies may receive interference from adjacent tone frequencies. 39 TX/RX: Normal polarity TX/RX: Reverse polarity SET MODES D Frequency offset Selects the frequency offset between 0 and 20 MHz, for repeater operation.

The frequency offset means the difference between the transmit and receive frequencies. (default: differs depending on the version) 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 40 D Scan resume setting Selects the scan resume setting between SCt. 5, SCt. 10, SCt. 15, and SCP. 2. When a signal is received during a scan, the scan pauses and then resumes, according to the scan resume setting. · SCt. 5/10/15 : The scan pauses for 5, 10 or 15 sec., and then resumes.

(default: SCt. 15) · SCP.2 : The scan pauses until the received signal disappears, and then resumes after 2 sec. D Reverse duplex function Turns the reverse duplex function ON or OFF. (default: OFF) D Function key timer Push [FUNC](M) to enter the Function mode, and then push a keypad key to activate it's second function. · During the Function mode, " " is displayed on the LCD. D Tuning step Selects the tuning step from 5, 10, 12.5, 15, 20, 25, 30 and 50 kHz. (default: differs depending on the version) Set the time between when Function mode is entered, and how long it remains activated after you push the keypad key to activate it's second function. : Exits the Function mode immediately after a key is pushed to activate it's second function.

(default) · F1/2/3.At : The Function mode remains activated for the selected period after a key is pushed to activate it's second function. · F.m : The Function mode remains activated until [FUNC](M) is pushed again, even after a key is pushed to activate it's second function. · F0.

At 10 SET MODES D VOX gain Sets the VOX gain to between 1 and 10. Higher values make the VOX function more sensitive to your voice. To turn the VOX function OFF, select "VOX.OF." (default: VOX.

05) D LCD backlight Selects the LCD backlight function. · LIG.OF · LIG.



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ON · LIG.At : Turns the backlight function OFF. : Lights continuously while the transceiver is ON. : Turns ON when an operation occurs, and turns OFF after 5 sec. (default) D TX permission Selects whether or not to allow transmitting. · tX.OF : Inhibits transmitting.

(Receive only) · tX.ON : Allows transmitting. (default) NOTE: Set the microphone gain before setting the VOX gain. See page 52 for details of the VOX function. D Microphone gain Sets the microphone gain to between 1 and 4 to suit your preference. Higher values make the microphone more sensitive to your voice. (default: mic.2) D Weather alert U.S.A.

version only (default: OFF) Turns the Weather Alert function ON or OFF. (p. 19) NOTE: When using the VOX function, we recommend setting the microphone gain to 3. However, you can adjust it to suit your operating environment (including your headset performance). 41 SET MODES D VOX delay

Sets the VOX Delay to between "VXd.05" (0.5 sec.), "VXd.10" (1 sec.), "VXd.15" (1.5 sec.), "VXd.20" (2 sec.), "VXd.25" (2.5 sec.) and "VXd.30" (3 sec.).

The VOX Delay is the amount of time the transmitter stays ON after you stop speaking. (default: VXd.10) 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 42 D DTMF TX key Selects the method to transmit a DTMF code sequence. While pushing and holding [PTT], push one of the keys, [0] to [9], [MONI](A), [](B), [](C), [VFO/MR/CALL](D), [M](E), and [# ENT](F). · dmt.k · dmt.m · dmt.t : Transmits the appropriate DTMF code assigned to the key. (default) : Transmits the programmed DTMF code sequence in the DTMF memory channel assigned to the key. : No DTMF code can be transmitted.

However, while pushing and holding [PTT], push either the [ ] or [ ] to transmit a 1750 Hz tone burst signal. D VOX time-out timer Sets the VOX time-out timer to between 1, 2, 3, 4, 5, 10 and 15 min. to prevent accidental prolonged transmission for the VOX function. To turn the function OFF, select "Vto.OF." (default: Vto.03) D Operating mode Set the operating mode to FM or FM-N. The operating mode is determined by the modulation of the radio signals.

(default: W/n. W) FM mode FM-N mode 10 SET MODES Initial Set mode programming The Initial Set mode can be accessed at power ON and allows you to set seldom-changed settings, to suit your preference and operating style.

D Initial Set mode operation @@w Push [ ] or [ ] to select the desired item. e Rotate [VOL] to select the option or value. r To exit the Initial Set mode, push [# ENT]. · Auto power-OFF (p. 44) · Lockout (p. 45) · Key-touch beep (p. 44) · Time-out timer (p. 44) · Auto repeater\* (p. 44) · Squelch delay (p. 45) · Auto low power (p.

47) : Push : Push · Battery protection function (p. 47) \*Appears for only the U.S.A. version transceivers. · Dial assignment (p. 45) · DTMF speed (p. 45) · Microphone simple mode (p. 47) · Select speed (p. 46) · Power save (p.

46) · LCD contrast (p. 46) · Display type (p. 46) 43 SET MODES 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 44 Initial Set mode items D Key-touch beep Turns the key-touch beep ON (the beep level 1 to 3) or OFF. · When changing the beep level, beeps sound at the level. (default: bEP.

2) D Auto repeater U.S.A. version only The Auto Repeater function automatically turns ON or OFF the duplex operation and the tone encoder. The offset and the repeater tone are not changed by the function.

Reset these settings, if necessary. · RPt.OF · RPt.R1 · RPt.R2 : Turns the function OFF. : Activates for only duplex. (default) : Activates for both duplex and tone. D Time-out timer To prevent accidental prolonged transmission, the transceiver has a time-out timer. This function cuts transmission OFF after 130 min. of continuous transmission.

To turn the function OFF, select "tot.OF." · tot.OF : Turns the function OFF. (default) · tot. 130 : If continuous transmission exceeds the selected period, the transmission will be cut off. D Auto power-OFF The transceiver can be set to beep and automatically turn OFF, when no key operation occurs during a specified period. · POF.OF : Turns the function OFF. (default) · POF.

30/1H/2H : The transceiver is automatically turned OFF when no operation occurs during the selected period. NOTE: The setting is maintained even after the transceiver is turned OFF by the auto power-OFF function. To cancel the function, select "POF.OF." 10 SET MODES D DTMF speed Selects a desired DTMF transfer speed.

· dtd. 1 : 100 msec. interval; 5.0 cps rate (default) · dtd. 2 : 200 msec. interval; 2.5 cps rate · dtd. 3 : 300 msec. interval; 1.6 cps rate · dtd. 5 : 500 msec. interval; 1.0 cps rate (cps=characters per second) D Lockout Selects the lockout type between repeater, busy and OFF. · RLO.OF · RLO.

RP : Turns the function OFF (default). : The repeater lockout function inhibits transmitting when the channel is busy, except while receiving a signal that includes a matched tone. : The busy lockout function inhibits transmitting while receiving a signal. · RLO.bU D Squelch delay Sets the squelch delay between short and long. The delay prevents the squelch from repeatedly opening and closing while receiving the same signal. · Sqd. S · Sqd. L : Sets the squelch delay to short (default). : Sets the squelch delay to long.

D Dial assignment Selects whether or not to use [VOL] as a tuning control instead of [ ] and [ ]. When [VOL] functions as a tuning control, [ ] and [ ] function as volume controls. · tOP.VO · tOP.di : Audio volume control (default) : Tuning dial [VOL] and [ ]/[ ] function as described below, depending on the option. Option tOP.VO tOP.di 45 [VOL] Volume control Tuning control [ ]/[ ] Tuning controls Volume controls SET MODES D Display type Selects the display type for memory mode operation. · dsp.FR · dsp.

CH : Displays the programmed frequency. (default) : Displays the memory channel number. Operable functions, configurable items in the Set mode, and selectable modes will be restricted. : Displays the channel name. If no memory name is programmed, the programmed frequency will be displayed. 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 46 D Power save The power save function allows you conserve battery life by selecting the duty cycle of the receiver. Select the ratio of the power save time to the standby time. To turn the function OFF, select "PS.OF." · PS.

OF · PS. 2 · PS. 8 · PS.16 · PS.At : Turns the function OFF. : Sets the duty cycle to 1:2. : Sets the duty cycle to 1:8. : Sets the duty cycle to 1:16. : Automatically sets the duty cycle. (default) · dsp.



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