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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-R6. You'll find the answers to all your questions on the ICOM IC-R6 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-R6
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Instruction manual ICOM IC-R6



COMMUNICATIONS RECEIVER
IC-R6

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 RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

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Manual abstract:

We want to take a moment of your time to thank you for making your IC-R6 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-R6. **IMPORTANT READ ALL INSTRUCTIONS** carefully and completely before using the receiver. **SAVE THIS INSTRUCTION MANUAL--** This instruction manual contains important operating instructions for the IC-R6. **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. **D FEATURES m Covers 0.**

1001309.995 MHz* wide frequency range *Some frequency bands are prohibited, depending on the receiver version m External power supply operation m 1300 memory channels with 22 banks available m 150 mW* AF power with BTL (bridge-tied load) amplifier *At 10% distortion with a 16 load (internal speaker) i Icom, Icom Inc. @@@@Hearing experts advise against continuous high volume operation. @@@This may result in an electric shock or damage the receiver. **RWARNING! NEVER** operate the receiver while driving a vehicle.

Safe driving requires your full attention-- anything less may result in an accident. **NEVER** solder the battery cell. This may damage the battery. **DO NOT** use or place the receiver in direct sunlight or in areas with temperatures below 10°C (+14°F) or above +60°C (+140°F). **RWARNING! NEVER** connect the receiver to an AC outlet.

This may pose a fire hazard or result in an electric shock. **RWARNING! NEVER** throw a battery cell into a fire since as internal battery gas can cause explosion. **DO NOT** use harsh solvents such as benzine or alcohol to clean the receiver, because they can damage the receiver's surfaces. Even when the receiver power is OFF, a slight current still flows in the circuits. Remove batteries from the receiver when not using it for a long time. Otherwise, the installed batteries will become exhausted, and will need to be recharged. **RWARNING! NEVER** disassemble the battery cell. If the battery cell's internal material (electrolyte liquid) gets into your eyes, wash your eyes with water and obtain treatment from an eye doctor immediately. **NEVER** connect the receiver to a power source of more than 6.3 V DC directly.

This will damage the receiver. **NEVER** connect the receiver to a power source using reverse polarity. This will damage the receiver. **ii 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. **OPERATING THEORY** Electromagnetic radiation, which has frequencies of 20,000 Hz (20 kHz*) and above, is called radio frequency (RF) energy because, it is useful in radio transmissions. The IC-R6 receives RF energy from 0.100 MHz* to 1309.995 MHz and converts it into audio frequency (AF) energy which in turn actuates a loudspeaker to create sound waves.

AF energy is in the range of 20 to 20,000 Hz. *kHz is an abbreviation of kilohertz or 1000 hertz, MHz is abbreviation of megahertz or 1,000,000 hertz, where hertz is a unit of frequency. **OPERATING NOTES** The IC-R6 may receive its own oscillated frequency, resulting in no reception or only noise reception, on some frequencies. The IC-R6 may receive interference from extremely strong signals on different frequencies or when using an external high-gain antenna.

CAUTION: Changes or modifications to this device, not expressly approved by Icom Inc.

, could void your authority to operate this device under FCC regulations. **iii TABLE OF CONTENTS FOREWORD i IMPORTANT i EXPLICIT DEFINITIONS i PRECAUTIONS ii FCC INFORMATION iii OPERATING THEORY iii OPERATING NOTES iii TABLE OF CONTENTS ivv SUPPLIED ACCESSORIES v QUICK REFERENCE GUIDE** **IVII n Preparation I n Your first scanning experience III n Memory programming IV n Programmed scan operation V 1 PANEL DESCRIPTION 14 n Front, top and side panels 1 n Function display 3 2 BATTERY CHARGING 58 n Battery installation 5 n Caution 5 n Battery charging 7 3 FREQUENCY AND CHANNEL SETTING 912 n VFO and memory channels 9 n Frequency band selection 9 n Setting a frequency 11 n Setting a tuning step 11 n Selecting a memory channel 12 n Lock function 12 4 BASIC OPERATION 1317 n Receiving 13 n Setting audio volume 13 n Squelch level setting 14 n Receive mode selection 14 n Monitor function 15 n Attenuator function 15 n Duplex operation 16 n Dial select step 17 5 MEMORY CHANNELS 1827 n General description 18 n Selecting a memory channel 18 n Memory channel programming 19 n Memory bank setting 20 n Memory bank selection 21 n Programming memory/bank name 22 n Selecting display type 23 n Copying memory contents 24 n Memory clearing 25 n Transferring memory contents 26 n Erasing/transferring bank contents 27 6 SCAN OPERATION 2837 n Scan types 28 n Full/band/programmed link/programmed scan 29 n Scan edges programming 30 n Programming scan name 31 n Programming other contents 32 n Memory/all bank/bank link/bank scan 33 n Auto memory write scan 34 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 iv TABLE OF CONTENTS n Skip channel/frequency setting 35 n Scan resume setting 37 7 PRIORITY WATCH 3840 n Priority watch types 38 n Priority watch operation 39 8 TONE SQUELCH AND POCKET BEEP 4144 n Tone squelch frequency/DTCS code setting 41 n Tone/DTCS squelch operation 43 n Tone scan 44 9 Set mode 4556 n General 45 n Set mode items 46 10 OTHER FUNCTIONS 5763 n Antenna selection 57 n [DIAL] function assignment 58 n Auto power-off function 58 n Weather channel operation 59 n Data cloning 61 n Partial reset 63 n All reset 63 11 CONTROL COMMAND 6461 n General 64 n Data format 64 n Command table 65 12 FREQUENCY TABLE 6774 n TV channels 67 n VHF marine channels 70 n Weather channels 70 n Other communications in the USA 72 v n Other communications-- other countries 73 13 MAINTENANCE 7576 n Troubleshooting 75 n CP-18A/E fuse replacement 76 14 SPECIFICATIONS 77 15 OPTIONS 79 16 POCKET GUIDE 8081 17 CE 8182 SUPPLIED ACCESSORIES q Antenna 1 w Hand strap 1 e Belt clip 1 r Ni-MH batteries* 2 atteries* t AC adapter* 1 * Not supplied, or the shape is different, depending on the receiver version.**



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q w e r t QUICK REFERENCE GUIDE Quick reference guide I Preparation D Battery installation q Remove the battery cover from the receiver. w Install two AA (LR6) size Ni-MH or alkaline cell batteries. · Be sure to observe the correct polarity. · Charge the Ni-MH batteries before use. (See page I I for charging instructions.) D Antenna Insert the antenna connector into the antenna base and tighten the antenna screw. Latch · NEVER carry the receiver by holding only the antenna. · When the jack is not in use, keep the jack cover attached to protect the connectors from dust and moisture.

For your information Third-party antennas may increase receiver performance. An optional AD-92SMA antenna connector adapter is available to connect an antenna with a BNC connector. Keep the battery terminals clean. It's a good idea to clean the battery terminals once a week. D Belt clip Conveniently attaches to your belt. To attach the belt clip: Slide the belt clip into the plastic loop on the back of the receiver. To detach the belt clip: Hold down the tab (q), and slide the belt clip in the direction of the arrow (w). D Handstrap To facilitate carrying the receiver, slide the hand strap through the loop on the top of the belt clip. w q QUICK REFERENCE GUIDE D Charging the battery BC-196SA/SD/BC-153SC to an AC outlet The shape may differ, depending on the version. r Rotate [DIAL] to select "Y," then push [BAND].

[DIAL] to the [DC4.5V] jack CP-18A/E Cigarette lighter cable with DC-DC converter to a cigarette lighter socket · The charging confirmation is displayed. Receiver q Install the Ni-MH batteries. w Plug the AC adapter into an AC outlet. e Insert the adapter plug into the [DC4.5V] of the receiver. · The battery confirmation is displayed. t Rotate [DIAL] to select "Y," then push [BAND] to start the battery charging. RWARNING!: NEVER attempt to charge the alkaline batteries. NOTE: When no operation is performed for 10 seconds, the receiver automatically skips these settings, and the receiver cannot charge the batteries.

In that case, remove the batteries for more than 2 seconds and retry these setting from step q. II Rotate Then, push · The battery icon scrolls during charge. · Both segments blink when completely charged. QUICK REFERENCE GUIDE Now that you have your IC-R6 ready, you are probably excited to start listening. We would like to take you through a few basic operation steps to make your first "Listennig Experience" enjoyable. 2. Adjusting audio level Push [p]/[q] to set a desired audio level. [DIAL] 3. Adjusting squelch level While holding down [SQL], rotate [DIAL] to set the squelch level. D About the default settings The [DIAL] control function can be traded with the [p]/[q] keys function.

However, in this QUICK REFERENCE GUIDE, the factory default setting ([DIAL] selects the operating frequency) is used for simple instruction. D Basic operation 1. Turning ON the receiver Hold down [] for 1 second to turn the power ON. 4. Setting a desired frequency The tuning dial will allow you to dial in the frequency you want to listen to. Pages 11 and 17 will instruct you on how to set the tuning speed. q Push [BAND] repeatedly to select a frequency band. · While holding down [BAND], then rotating [DIAL] will also select a frequency band. [DIAL] w Rotate [DIAL] to set the receive frequency. · While holding down [FUNC], rotate [DIAL] to select frequencies in MHz steps.

III Quick reference guide Your first scanning experience QUICK REFERENCE GUIDE Your first scanning experience (continued) Memory programming The IC-R6 has 1300 memory channels for storing often used receive frequency, mode, etc. 5. Receive mode selection Push [MODE] rep 3. Starting scan Push [SCAN](MODE) to start the scan. · Rotate [DIAL] to change the scanning direction.

In the VFO mode · Full/Band scan In the memory mode · All memory/All bank bank link scan · Program link Program scan · Bank scan 4. Cancelling scan Push [SCAN](MODE) again to stop the scan. For your information The memory channel number you program the scan edges into correlates "PROGxx" as follows: 00A/00B: Selects "PROG 00" to scan between frequencies programmed in channels 00A and 00B. 01A/01B: Selects "PROG 01" to scan between frequencies programmed in cha !3 !2 !1 e DUPLEX ICONS (p. 16) "DUP" appears when plus duplex, and "DUP" appears when minus duplex operation is selected.

r TONE ICONS (p. 43) "T SQL" appears while the tone squelch function is in use. "T SQL-R" appears while the reverse tone squelch function is in use. "DTCS" appears while the DTCS squelch function is in use. "DTCS" appears while the reverse DTCS squelch function is in use. "S" appears with the "T SQL" or "DTCS" icon while the pocket beep function (with Tone squelch or DTCS squelch) is in use. q BATTERY ICON Both segments appear when the batteries have ample capacity. · They do not appear when operating with an external power source. Only the right segment " " appears when the batteries have less than half capacity. Scrolls while charging the rechargeable batteries.

(p. 8) Both segments disappear when completely charged. w LOCK ICON (p. 12) Appears when the lock function is activated. 3 PANEL DESCRIPTION 1 1 t VSC ICON (p. 52) Appears while the VSC (Voice Squelch Control) function is in use. y AUTO WRITE CHANNEL ICON (p. 34) Appears when an auto write channel is selected. u SKIP ICONS mWhile in the VFO mode (p. 29) "PSKIP" appears when the VFO skip scan setting is ON.

mWhile in memory mode (p. 35) "SKIP" appears when the selected memory channel is specified as a skip channel. "PSKIP" appears when the displayed frequency is specified as a skip channel for the memory scan or skip frequency for the VFO scan. i PRIORITY WATCH ICON (pp. 39, 40) Appears while priority watch is in use.

o MEMORY ICON (pp. 9, 18) Appears when the memory mode is selected. !0 MEMORY CHANNEL NUMBER Shows the selected memory channel number. (pp. 9, 18) !1 SIGNAL STRENGTH INDICATOR (p.

!3) Shows the relative signal strength while receiving signals. !2 ATTENUATOR ICON (p. 15) Appears while the RF attenuator is in use. !3 RECEIVE MODE ICONS (p. 14) Shows the selected receive mode. · FM, WFM and AM modes are selectable. !4 VOLUME EXCHANGE ICON (p. 58) Appears when the function of [DIAL] and [p]/[q] are exchanged. !5 FREQUENCY READOUT Shows a variety of information, such as the operating frequency, Set mode contents, memory names. · The smaller "75," "50" or "25" to the right of the frequency readout shows the 0.

75, 0.5 or 0.



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25 kHz, respectively. · The decimal point blinks during a scan. 4 2 BATTERY CHARGING Caution · R DANGER! NEVER short the battery terminals (or charging terminals on the bottom of the receiver). Also, current may flow into nearby metal objects such as a necklace, so be careful when placing batteries (or the receiver) 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 batteries, but also the receiver. · R DANGER! NEVER incinerate used batteries.

Internal battery gas may cause an explosion. · R DANGER! NEVER immerse the batteries in water. If the batteries become wet, be sure to wipe them dry BEFORE installing them to the receiver. · When installing batteries, make sure they are all the same brand, type and capacity. Also, do not mix new and old batteries together.

· Never use batteries whose insulated covering is damaged. · Keep battery terminals clean to avoid rust or miscontact. It's a good idea to clean battery terminals once a week. Battery installation Before installing, or replacing the batteries, hold down [] for 1 second to turn the power OFF. q Remove the battery cover from the receiver.

Latch w Install two AA (LR6) size Ni-MH batteries. · Be sure to observe the correct polarity. D Caution for the Ni-MH batteries · CAUTION: Always use the batteries within the specified temperature range, 5°C to +60°C (+23°F to +140°F). Using the batteries out of their specified temperature range will reduce the battery's performance and battery life. 5 BATTERY CHARGING 2 2 · CAUTION: Shorter battery life could occur if the batteries are left completely discharged, or in an excessive temperature environment (above +55°C; +131°F) for an extended period of time. If the batteries must be left unused for a long time, they must be detached from the receiver after charging. Keep them safely in a cool dry place at the following temperature range: 20°C to +45°C (4°F to +113°F) (up to a month) 20°C to +35°C (4°F to +95°F) (up to six months) 20°C to +25°C (4°F to +77°F) (up to a year*) * We recommend charging the batteries every 6 months. D Charging caution · R WARNING! NEVER charge alkaline batteries. The receiver can charge only the Ni-MH batteries (1.2 V, 1400 mA typical).

Other types of rechargeable battery, such as Ni-Cd or Li-Ion cannot be charged. · AVOID over charging-- The installed rechargeable batteries can be charged during operation when the AC adapter or the cigarette lighter cable is connected. To prevent over charging, the IC-R6 has charging timer that automatically disconnecting* the charging line electronically after 15 hours from charging. However, the charging timer will reset and start charging again when disconnect then reconnecting the AC adapter or CP-18A/E more than 1 minute interval. * When the "CHARGE" setting in the Set mode is set to "CHG2 (default)," the receiver continues to trickle charge after 15 hours have past. · If your Ni-MH batteries seem to have no capacity, even after being charged, completely discharge them by leaving the power ON overnight. Then, fully charge the batteries again. If the batteries still do not retain a charge (or only very little charge), a new batteries must be purchased. Prior to using the receiver for the first time, the batteries must be fully charged for optimum life and operation. · The supplied batteries are rechargeable batteries.

Charge the batteries before first operating the receiver, or when the batteries become exhausted. If you want to prolong the battery life, the following points should be observed: · Avoid over charging. · Use the batteries until it becomes almost completely exhausted, under normal conditions. · Recommended temperature range for charging: between 0°C (+32°F) and +40°C (+104°F) by the receiver. · Use the BC-196SA/SD/BC-153SC AC adapter or CP-18A/E cigarette lighter cable only.

NEVER use other manufacturers' chargers. · The external DC power supply voltage must be between 1216 V to charge the batteries and for operation when using an optional CP-18A/E. · If the battery icons (" " and " ") disappear only 1 minute after connecting to the DC power supply, the batteries may have problem. In this case, contact your Icom dealer/distributor, or purchase new batteries. 6 2 BATTERY CHARGING Battery charging D Charging connections RWARNING!: NEVER attempt to charge alkaline batteries.

BC-196SA/SD/BC-153SC to an AC outlet The shape may differ, depending on the version. D Charging description When charging the installed batteries at the first time, or once the batteries are removed for more than 2 seconds, the following operations are necessary. q Install Ni-MH batteries. (See page 5.) w Plug the AC adapter into an AC outlet; or the CP-18A/E into a cigarette lighter socket. e Insert the adapter plug into [DC4.5V] of the receiver. · The battery confirmation is displayed. to the [DC4.5V] jack CP-18A/E Cigarette lighter cable with DC-DC converter to a cigarette lighter socket Receiver · Charging period: Approx.

15 hours* * Charging pauses when the receiver's temperature is out of its specified temperature range (at that time both battery icons blink), then resumes when it returns to the specified range. In that case, the charging time will be longer than 15 hours. If the confirmation does not appear, following operation is necessary. q Disconnect the adapter plug from [DC4.5V]. w Holding down [FUNC], insert the adapter plug again. e Release [FUNC]. NOTE: When no operation is performed for 10 seconds, the receiver automatically skips these settings, and the receiver cannot charge the batteries. In that case, remove the batteries for more than 2 seconds and retry these setting from step q. 7 · External DC power operation becomes possible when using an AC adapter or cigarette lighter cable.

The installed Ni-MH batteries can also be charged simultaneously. · CAUTION: BE SURE to disconnect the CP-18A/E from the cigarette lighter socket when charging is finished, because, a slight current still flows in the CP-18A/E and will drain the vehicle's battery. BATTERY CHARGING 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 D Charger stand BC-194 r Rotate [DIAL] to select "Y," then push [BAND]. [DIAL] The BC-194 can be used as a convenient stand for the receiver, as well as a charger when used the BC-196SA/SD, BC-153SC or CP-18A/E as it's power source. AC adapter (supplied with receiver) Receiver · The charging confirmation is displayed.

BC-194 CP-18A/E cigarette lighter cable Ground screw and flat washer splied with BC-194 t Rotate [DIAL] to select "Y," then push [BAND] to start the battery charging.



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Cushion sheet (supplied with BC-194) Rotate Then, push · While charging, the icons show " , " " " and " (disappears)" in sequence, and "CHARGE" appears when the receiver's power is OFF. The icons and "CHARGE" disappear when the battery pack is completely charged. · It takes approximately 13 hours to fully charge the Ni-MH batteries. Double-sided tape* (supplied with BC-194) *One sheet supplied.

You can cut the desired size. The BC-194 contains a line filter. If the ground screw is connected to earth ground, the BC-194 will reduce some noises from the power source. 8 3 FREQUENCY AND CHANNEL SETTING Frequency band selection The receiver can receive the AM broadcast, HF band, 50 MHz, FM broadcast, VHF air, 144 MHz, 300 MHz, 400 MHz, 800 MHz,* 1200 MHz or Weather channels. Available frequency bands differ, depending on the version. See the specifications for details. *Some frequency ranges are prohibited in the USA version by regulation. Available in only the USA version. Push [BAND] repeatedly to select a desired frequency band. · When the memory mode is selected, push [V/M] to select the VFO mode first, then push [BAND] to select a desired band.

VFO and memory channels The IC-R6 has two normal operating modes: the VFO mode and the memory mode. The VFO mode is used for a desired frequency setting within the frequency coverage. Push [V/M] to select the VFO mode. The memory mode is used for quick recall of the preprogrammed memory channels. Push [V/M] to select the memory mode. · See page 19 for memory programming details. · VFO mode display [DIAL] While holding down [BAND], rotating [DIAL] also selects the frequency band. · Memory mode display [DIAL] " " and memory channel number appear. What is VFO? VFO is an abbreviation of Variable Frequency Oscillator. Operating frequencies are generated and controlled by the VFO.

9 FREQUENCY AND CHANNEL SETTING · Available frequency bands 3 3 AM broadcast band HF band 50 MHz band FM broadcast band : Push : While holding down , rotate VHF air band Weather channels* The actual frequencies may differ, depending on your receiver version. *Available in only the USA version 144 MHz band 1200 MHz band 800 MHz band 400 MHz band 300 MHz band 10 3 FREQUENCY AND CHANNEL SETTING Setting a frequency q Push [V/M] to select the VFO mode, if necessary. w Select a desired frequency band with [BAND]. · Or, while holding down [BAND], rotate [DIAL] to select a desired frequency band. Setting a tuning step The tuning step can be selected for each frequency band.

However, additional steps become selectable in only the VHF Air band (8.33 kHz) and in the AM broadcast band (9 kHz). The following tuning steps are available for the IC-R6. · 5.0 kHz · 6.

25 kHz · 8.33 kHz · 9.0 kHz · 10.0 kHz · 12.5 kHz · 15.0 kHz · 20.0 kHz · 25.0 kHz · 30.0 kHz · 50.0 kHz · 100.

0 kHz · 125.0 kHz · 200.0 kHz e Rotate [DIAL] to select a desired frequency. · The frequency changes according to the preset tuning step. See the section to the right for setting the tuning step. · While holding down [FUNC], rotate [DIAL] to change the frequency in 1 MHz steps (default). [DIAL] [DIAL] changes the frequency according to the selected tuning step. D Tuning step selection q Push [V/M] to select the VFO mode, if necessary. w Push [BAND] to select a desired frequency band. · Or, while holding down [BAND], rotate [DIAL] to select a desired frequency band.

e Push [TS] to enter the tuning step selecting mode. r Rotate [DIAL] to select a desired tuning step. t Push [TS] to return to the VFO mode. While holding down [FUNC], rotating [DIAL] changes the frequency in 1 MHz steps (default). [DIAL] The MHz tuning step (dial select step) can be set to 100 kHz, 1 MHz or 10 MHz tuning steps in the Set mode.

See page 17 for details. 5 kHz tuning step 11 FREQUENCY AND CHANNEL SETTING 3 Selecting a memory channel q Push [V/M] to select the memory mode. " " appears when the memory mode is selected. Lock function To prevent accidental frequency changes and unnecessary function access, use the lock function. While holding down [FUNC], push and hold [](BAND) for 1 second to turn the lock function ON or OFF.

" " appears while the lock function is activated. · [SQL] and [p]/[q] can be used while the lock function is in use with default setting. Either or both [SQL] and [p]/[q] keys can also be locked in the Set mode. (p. 49) w Rotate [DIAL] to select a desired memory channel. · Only programmed memory channels can be selected. · While holding down [FUNC], rotate [DIAL] to select a memory channel in 10 channel steps. 3 [DIAL] Appears " " appears while the lock function is in use. [DIAL] changes the memory channel. 12 4 BASIC OPERATION Setting audio volume The audio level can be adjusted through 40 levels.

Push [p] or [q] to adjust the audio level. · A beep tone sounds while adjusting. The tone sound lets you know the approximate sound level. · Holding down either key will continuously change the audio level. · Holding down [p] or [q], then rotating [DIAL] will also adjust the audio level. · The display shows the volume level while setting. Receiving Make sure charged Ni-MH or brand new alkaline batteries are installed. (p. 7) q Hold down [] for 1 second to turn power ON. w Push [p] or [q] to set a desired audio level.

· The function display shows the volume level while setting. See the section to the right for details. e Set the receive frequency. (p. 11) r Set the squelch level. (p. 14) · While holding down [SQL], rotate [DIAL]. · The first click of [DIAL] indicates the current squelch level. · "LEVEL 1" is loose squelch and "LEVEL 9" is tight squelch. · "AUTO" indicates automatic level adjustment using a noise pulse count system.

· Hold down [SQL] to open the squelch manually. DISPLAY AUDIO LEVEL Minimum level (no audio) t When a signal is received: · The squelch opens and audio is heard. · The S-meter shows the relative signal strength. Initial setting r Push for setting the squelch (Push to monitor) e Set frequency r Set squelch level w Set audio level e Select band q Power ON [] Maximum level 13 BASIC OPERATION 4 Squelch level setting The squelch circuit mutes the received audio signal, depending on the signal strength. The receiver has 9 squelch levels, a continuously open setting and an automatic setting. While holding down [SQL], rotate [DIAL] to select the squelch level. · "LEVEL 1" is loose squelch (for weak signals) and "LEVEL 9" is tight squelch (for strong signals).



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· "AUTO" indicates the automatic level adjustment using a noise pulse count system. · "OPEN" indicates the continuously open setting. Receive mode selection The receiver has three receive modes, FM, AM and WFM.

The mode selection is independently stored in each band and memory channels. Typically, the AM mode is used for the AM broadcast stations (0.4951.620 MHz) and air band (118135.995 MHz), and WFM is used for FM broadcast stations (76107.9 MHz). ush [MODE] repeatedly to select a desired receive P mode. 4 [DIAL] FM mode Automatic squelch AM mode Maximum level WFM mode 14 4 BASIC OPERATION Monitor function This function is used to listen to weak signals, without disturbing the squelch setting. It can also be used to open the squelch manually, even when mute functions such as the tone squelch are in use. Hold down [SQL] to monitor the receive frequency.

Attenuator function The attenuator prevents a received signal from distorting when very strong signals are near a desired frequency, or when very strong electric fields, such as from a broadcasting station, are near your location. While holding down [FUNC], push [ATT](SQL) to turn the attenuator function ON or OFF. The 1st/2nd segments blink "ATT" appears while the attenuator functions is in use. The [SQL] switch can be set to a 'sticky' operation in the Expand set mode. See page 49 for details.

When the signal is received by the bar antenna, this function is not effective. 15 BASIC OPERATION 4 Duplex operation Duplex communication uses two different frequencies for transmitting and receiving. Generally, duplex is used in communication through a repeater, some utility communications, etc. During duplex operation, the transmit station frequency is shifted from the receive station frequency by the frequency offset. Repeater information (frequency offset and shift direction) can be programmed into memory channels.

(p. 19) using EXPAND SET MODE t Rotate [DIAL] to select the "OFFSET" item. · "OFFSET" disappears after 1 second and "0.600" (default) and "OW" appear. (Default offset differs depending on the frequency band or receiver version.) 4 After 1 sec. Frequency offset item Setting display D Setting cy. q Set the station's receive frequency (repeater output frequenw Hold down [SET](TS) for 1 second to enter the Set mode. e Rotate [DIAL] to select the "EXPAND" item. · "EXPAND" disappears after 1 second and "OFF" (default) and "EX" appear.

y While holding down [FUNC], rotate [DIAL] to set a desired frequency offset within 0.000159.995 MHz range. · The tuning step, selected in the VFO mode, is used for setting. u Rotate [DIAL] to select the "DUP" item. · "DUP" disappears after 1 second and "OFF" (default) and "DP" appear. [DIAL] After 1 sec. Expand set mode item After 1 sec. Duplex item Setting display Setting display i While holding down [FUNC], rotate [DIAL] to select "DUP" or "+DUP." o Push [SET](TS) to exit the Set mode.

!0 Hold down [SQL] to directly monitor the station's transmit frequency (repeater input frequency). r While holding down [FUNC], rotate [DIAL] to select "ON." 16 4 BASIC OPERATION Dial select step [This receiver has a MHz tuning step for quick frequency setting. You can select 100 kHz, 1 MHz or 10 MHz steps, as desired. D Setting dial select step q Push [V/M] to select the VFO mode.

w Hold down [SET](TS) for 1 second to enter the Set mode. e Rotate [DIAL] to select the "D SEL" item. · "D SEL" disappears after 1 second and "1M" (default) and "DS" appear. r While holding down [FUNC], rotate [DIAL] to select a desired dial select step. · 100 kHz, 1 MHz and 10 MHz can be selected. t Push [SET](TS) to exit the Set mode. [DIAL] 1 MHz step 10 MHz step 100 kHz step 17 MEMORY CHANNELS General description The receiver has 1300 memory channels for storage of often-used frequencies. A total of 22 memory banks, A to R, T, U, W and Y can be selected. Up to 100 channels can be assigned to each bank. 5 4 5 Selecting a memory channel q Push [V/M] to select the memory mode. · Push [V/M] to toggle between the VFO mode and the memory channel mode. w Rotate [DIAL] to select a desired memory channel. · Only programmed channels are displayed. · While holding down [FUNC], rotate [DIAL] to select the memory channel in 10 channel steps. Appears D Memory channel contents The following information can be programmed into memory channels: · Receive frequency (p.

11) · Receive mode (p. 14) · Duplex direction (+DUP or DUP) with a frequency offset (p. 16) · Tone squelch or DTCS squelch ON/OFF (p. 43) · Tone squelch frequency or DTCS code with polarity (pp. 41, 42) · Tuning step (p. 11) · Attenuator function ON/OFF (p. 15) · Voice squelch control ON/OFF (p. 52) · AF filter ON/OFF (p. 55) · Scan skip setting (p. 35) · Memory bank (p.

20) · Memory name (p. 22) Rotate [DIAL] to select the memory channel. NOTE: Memory data can be erased by static electricity, electric transients, etc. In addition, it can be erased by a malfunction and during repairs. Therefore, we recommend that memory data be written down or saved to a PC using the CS-R6 cloning software.

18 5 MEMORY CHANNELS Memory channel programming q Push [V/M] to select the VFO mode. w Set a desired frequency: Select a desired band with [BAND]. Set a desired frequency with [DIAL]. Set other data (e.g.

frequency offset, duplex direction, tone squelch, etc.), if desired. @@· The " " icon and memory channel number blink. r Rotate [DIAL] to select a desired channel. · Scan edge channels 00A/B to 24A/B can also be selected. · While holding down [FUNC], rotate [DIAL] to select memory channels in 10 channel steps. t Hold down [S.MW](V/M) for 1 second. · 3 beeps sound. · The memory channel number automatically increases if you continue to hold down [S.

MW](V/M) after programming. NOTE: Push [V/M] to cancel programming and exit the select memory write mode, before memory programming is finished. [EXAMPLE]: Programming 145.870 MHz into memory channel 20 (a blank channel). Hold down for 1 sec. Rotate to select channel 20. The VFO mode Enter the select memory write mode. Hold down for 1 sec. to program. Return to the VFO mode.

19 MEMORY CHANNELS 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Memory bank setting The IC-R6 has a total of 22 banks (A to R, T, U, W and Y). Regular memory channels 000 to 1299 can be assigned to any desired bank, for easy memory management. q Hold down [S.MW](V/M) for 1 second to enter the select memory write mode.



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· 1 short and 1 long beep sounds.

· The " " icon and memory channel number blink. r While holding down [BAND], rotate [DIAL] to select a desired bank group. · Bank groups A to R, T, U, W and Y are selectable. · The bank groups can also be selected by repeatedly pushing [BAND]. [DIAL] w Rotate [DIAL] to select a desired memory channel. e While holding down [MODE], rotate [DIAL] to select the "BANK" item. · The bank group and channel number are displayed if the selected memory channel has already been assigned to a bank. · The "BANK" item can also be selected by pushing [MODE] repeatedly. [DIAL] Bank group t Rotate [DIAL] to select a desired bank channel number. · Only vacant bank channel numbers are displayed. [DIAL] After released. Bank channel · After releasing [MODE], "-- -- --" is displayed instead of the frequency display, and only the " " icon blinks. y Hold down [S.MW](V/M) for 1 second to assign the channel to the bank. · Return to the previous screen before entering the select memory write mode.

20 5 MEMORY CHANNELS Memory bank selection q Push [V/M] to select the memory mode. w While holding down [BAND], rotate [DIAL] to select a desired bank. · The bank can also be selected by pushing [BAND] repeatedly. · Only banks with entries are displayed. e Rotate [DIAL] to select the bank channel. · Only programmed channels are displayed. [DIAL] Bank initial [DIAL] Regular memory channels Bank channel number Only banks with entries are displayed r To return to a regular memory channel, while holding down [BAND] then rotate [DIAL], or repeatedly push [BAND]. Auto write channels 21

MEMORY CHANNELS 5 Programming memory/bank name Each memory channel can be programmed with an alphanumeric channel name for easy recognition, and can be displayed independently by channel. Names can be a maximum of 6 characters. q Push [V/M] to select the memory mode. w Rotate [DIAL] to select a desired memory channel. @@· The " " icon and memory channel number blink. t While holding down [FUNC], rotate [DIAL] to select a desired character. · The selected character blinks. y Rotate [DIAL] to move the cursor to the right or to the left.

Memory name Bank name 5 u Repeat steps t and y until a desired 6-character channel name is displayed. i Hold down [S.MW](V/M) for 1 second to program the name and exit the programming mode. · 3 beeps sound. r While holding down [MODE], rotate [DIAL] to select the "M NAME" or "B NAME" item when programming the memory name or the bank name, respectively.

· The item can also be selected by pushing [MODE] repeatedly. Memory name selection Bank name selection · Available characters A to Z, 0 to 9, (,) , * , + , , , / , \ , = and space. NOTE: Only one bank name can be programmed into each bank. Therefore, the previously programmed bank name will be displayed when bank name is selected. Also, the programmed bank name is automatically assigned to another bank channel. · After releasing [MODE], a line blinks under the first digit, and the " " icon blinks. 22 5 MEMORY CHANNELS Selecting display type During memory mode operation, either the programmed bank name, memory name or the channel number can be displayed, instead of the frequency display. q Push [V/M] to select the memory mode. · If desired, push [BAND] repeatedly to select a desired bank group. D Selecting bank channel display During bank channel operation, the bank channel number can also be displayed, instead of the memory channel number.

q Select the channel number display as described to the left. w While holding down [BAND], rotate [DIAL] to select a desired bank. · The bank can also be selected by pushing [BAND] repeatedly. w While holding down [FUNC], push [M.N](BAND) repeatedly to select the display type from frequency, bank name, memory name or the channel number. [DIAL] Memory channel number display Frequency display Bank channel number display Push Bank name display When the selected memory channel has not been programmed with the bank name or memory name, the frequency is displayed. Memory name display Auto write channel number display Bank channel number display Channel number display 23 MEMORY CHANNELS 5 Copying memory contents This function copies a memory channel's contents to the VFO (or another memory channel). This is useful when searching for signals around a memory channel frequency and for recalling the frequency offset, subaudible tone frequency etc. Holding down [S.MW](V/M) for 2 seconds in step w will also copy the memory contents to the VFO.

In that case, steps e and r are not necessary. D MemoryVFO q Select the memory channel to be copied. Push [V/M] to select the memory mode, then rotate [DIAL] to select a desired channel. · If desired, push [BAND] repeatedly to select a desired bank group, then rotate [DIAL] to select a desired bank channel.

D Memorymemory 5 · 1 short and 1 long beep sounds.

· The " " icon and memory channel number blink. q Select the memory channel to be copied. Push [V/M] to select the memory mode, then rotate [DIAL] to select a desired channel. · 1 short and 1 long beep sounds. · The " " icon and memory channel number blink. · Do not hold down [S.MW](V/M) for more than 2 seconds. Otherwise the memory contents will be copied to the VFO. e Rotate [DIAL] to select "VF." r Hold down [S.MW](V/M) for 1 second to write the selected channel contents into the VFO. · The VFO mode is automatically selected. e Rotate [DIAL] to select the target memory channel. r Hold down [S.MW](V/M) for 1 second again to copy.

[EXAMPLE]: Copying channel 20 to 51. Select the memory channel Hold down for 1 sec. Rotate . Hold down for 1 sec. to program. 24 5 MEMORY CHANNELS Memory clearing Contents of programmed memories can be cleared (erased), if desired. q Hold down [S.MW](V/M) for 1 second to enter the select memory write mode. · 1 short and 1 long beep sounds. · The " " icon and memory channel number blink.

· Do not hold down [S.MW](V/M) for more than 2 seconds. Otherwise the memory contents will be copied to the VFO. r Hold down [S.MW](V/M) for 1 second to clear the contents. · 3 beeps sound. · The cleared channel changes to a blank channel. · Return to the select memory write mode. The " " memory channel number blink. " " icon and Push and hold for 1 sec.

w Rotate [DIAL] to select a desired memory channel to be cleared. e While holding down [MODE], rotate [DIAL] to select the "CLEAR" item. · The "CLEAR" item can also be selected by pushing [MODE] repeatedly. t Push [V/M] to return to the screen displayed before you entered the select memory write mode in step q.



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CONVENIENT!: Instead of doing steps e and r, while holding down [FUNC], pushing and holding [S.MW](V/M) for 1 second also clears the contents. **BE CAREFUL!** The contents of cleared memories **CANNOT** be recalled, even in the bank channel mode. [DIAL] After released. After releasing [MODE], "CLR" is displayed and the " " blinks. " icon 25 MEMORY CHANNELS 5 Transferring memory contents The contents of programmed memory channels can be transferred to other memory channels.

q Hold down [S.MW](V/M) for 1 second to enter the select memory write mode. · 1 short and 1 long beep sounds. · The " " icon and memory channel number blink. · Do not hold down [S.MW](V/M) for more than 2 seconds. Otherwise the memory contents will be copied to the VFO. · Example Transferring the contents of memory channel 51 to channel 33. [DIAL] Steps q and w 5 w Rotate [DIAL] to select a desired memory channel to be transferred. e While holding down [MODE], rotate [DIAL] to select the "CLEAR" item, then release [MODE].

· Pushing [MODE] repeatedly also selects the "CLEAR" item. Step e r Hold down [S.MW](V/M) for 1 second. · The displayed contents are cleared. Step r

CONVENIENT!: Instead of doing steps e and r, while holding down [FUNC], pushing and holding [S.

MW](V/M) for 1 second also clears the contents. t Rotate [DIAL] to select a desired target memory channel. y Hold down [S.MW](V/M) for 1 second to transfer the contents. Step t Step y 26 5 MEMORY CHANNELS Erasing/transferring bank contents The contents of programmed memory channels can be erased or transferred to other memory channels.

INFORMATION: Even if the memory bank contents are erased, the memory channel contents still remain programmed. q Select a desired bank contents to be transferred or erased from the bank. Push [V/M] to select the memory mode. While holding down [BAND], rotate [DIAL] to select a desired memory bank group. Rotate [DIAL] to select the bank channel. · 1 short and 1 long beep sounds. · Do not hold down [S.MW](V/M) for more than 2 seconds. Otherwise the bank contents will be copied to the VFO. e While holding down [MODE], rotate [DIAL] to select the "BANK" item.

· Pushing [MODE] repeatedly also selects the "BANK" item. r While holding down [BAND], rotate [DIAL] to select a desired bank group to transfer. Or, select the "- - - - -" display when erasing the contents "-" from the bank. · If "- - - - -" is selected in this step, skip step t, and go to step y. -" [DIAL] To transfer the bank contents in bank E. To erase Hold down for 1 sec. t Rotate [DIAL] to select a desired bank channel. y Hold down [S.MW](V/M) for 1 second to erase or transfer the bank contents. · The original memory channel number is automatically displayed, then the " " icon and the memory channel number blink.

27 SCAN OPERATION Scan types Scanning automatically searches for signals and makes it easier to locate new stations. 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 FULL SCAN (p. 29) 100 kHz Scan Jump 1309.995 MHz Repeatedly scans all frequencies over the entire band. Some frequency ranges are not scanned, depending on the frequency coverage of the receiver version.

Repeatedly scans between two user-programmed frequencies. Used to check for frequencies within a specified range, such as repeater output frequencies, etc. SELECTED BAND SCAN Repeatedly scans all frequencies over the entire selected band. PROGRAMMED SCAN (p.

29) Band edge Scan edges xxA Scan Jump Band xxB edge MEMORY (SKIP) SCAN (p. 33) SKIP M1 M0 M 199 M6 M5 M2 M3 M4 SKIP Repeatedly scans memory channels, except those set as skip channels. Skip channels can be turned ON or OFF by pushing [FUNC] + [](V/M) in the memory mode.

ALL/SELECTED BANK SCAN (p. 33) SKIP A00 A99 A98 A05 A04 A01 A02 A03 Repeatedly scans all bank channels or selected bank channels. The skip scan is also selectable. FREQUENCY/MEMORY SKIP FUNCTION (p. 35) Band edge Scan SKIP Jump SKIP Band edge SKIP Skips unwanted frequencies or channels that inconveniently stop scanning. This function can be turned ON or OFF by pushing [FUNC] + [](V/M) in either the VFO or the memory mode. 28 6 SCAN OPERATION Full/band/programmed link/programmed scan q Push [V/M] to select the VFO mode.

· Push [BAND] to select a desired frequency band. t To start the scan, push [SCAN](MODE). · The scan pauses when a signal is received. · Rotate [DIAL] to change the scanning direction. This also resumes scanning. · Push [SCAN](MODE) again to stop the scan. During full/band scan During programmed/ link program scan w Set the squelch level. @@r Rotate [DIAL] to select a desired scanning type. · Select "ALL" for full scan, "BAND" for band scan, "P-LINK x" for programmed link scan (x= 0 to 9), "PROGxx" for programmed scan (xx= 0 to 24; only programmed scan edge numbers are displayed). [DIAL] Hold down for 1 sec.

Rotate · Full scan · Program link scan **NOTE:** Instead of doing steps e to t, while holding down [SCAN](MODE), rotate [DIAL] to select a desired scan type. In this case, the scan starts after releasing [SCAN](MODE). **CONVENIENT!** The memorised skip frequencies can be skipped or scanned during a VFO scan. In the VFO mode, hold down [FUNC], then push [](V/M) to set the skip scan setting ON or OFF. (default: ON) The scan link name or scan name can be displayed instead of "P-LINK x" for program link scan (x= 0 to 9), "PROGxx" for programmed scan (xx= 0 to 24) when scan link name or scan name is programmed.

Scan link name or scan name is not displayed during scan. Selectable between "0" to "9" if programmed (p. 53) · Band scan · Program scan Selectable between "0" to "24" if programmed (p. @@@@q Push [V/M] to select the VFO mode. w Set a desired frequency: Push [BAND] to select a desired band. Rotate [DIAL] to set a desired frequency. Set other data (e.g. frequency offset, duplex direction, tone squelch, etc.), if desired. @@@@ Hold down for 1 sec. @@@@ Hold down for 1 sec. to program. Return to the VFO mode. @@@@ Names can be a maximum of 6 characters.

q Push [V/M] to select the memory mode. w Rotate [DIAL] to select a desired scan edge channel. @@@@ Scan name selection After released. @@@@NOTE: Only one scan name can be programmed into each pair. @@@@ Push [V/M] to select the memory mode. w Rotate [DIAL] to select a desired scan edge channel. @@@@ Scan step selection After released. Receive mode selection After released. @@@@ Set the squelch level. @@@@ · Rotate [DIAL] to change the scanning direction.

This also resumes scanning. · Push [SCAN](MODE) again to stop the scan.



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@@@@q Start a VFO scan. Push [V/M] to select the VFO mode. Set the squelch level.
 @@@@. Push [SCAN](MODE) to stop the scan. @@@@. These are useful to speed up the scan time. q Select a memory channel:
 Push [V/M] to select the memory mode. @@@@e Push [MODE] repeatedly to select the "SKIP" item. · While holding down [MODE], rotating [DIAL] can
 also select the "SKIP" item.
 [DIAL] · Skip setting "SKIP" appears "PSKIP" appears r While holding down [FUNC], rotate [DIAL] to select the skip option from "SKIP," "PSKIP" or
 "OFF," for the selected channel. · SKIP : The channel is skipped during a memory or bank scan. · PSKIP : The channel is skipped during a memory/bank
 scan. The programmed frequency is skipped during a VFO scan, such as a programmed scan. · OFF : The channel or programmed frequency is scanned
 during any scan. t Hold down [S.MW](V/M) for 1 second to store the skip status. · The "SKIP" or "PSKIP" icon appears, according to the skip selection in
 step r. · Skip channel setting · Program skip setting CONVENIENT! The skip setting can also be set using the following steps, for easy setting. q Select a
 desired memory channel to be set as a skip channel/frequency.
 w While holding down [FUNC], push [](V/M) to select the skip status from "SKIP," "PSKIP" or "OFF (no indication)." 35 SCAN OPERATION 6 D Storing
 the skip frequencies during a VFO scan During a VFO scan, the skip frequencies can be stored into the highest blank memory channel which is automatically
 selected with the following operation. q Start a VFO scan. Push [V/M] to select the VFO mode. Set the squelch level. @@ Rotate [DIAL] to select a desired
 scanning type. · Select "ALL" for full scan, "BAND" for band scan, "P-LINK x" for programmed link scan (x= 0 to 9), "PROG:xx" for programmed scan (xx= 0
 to 24; only programmed scan edge numbers are displayed). 6 Push [SCAN](MODE) to start the scan. w When the scan pauses and you want to set the paused
 frequency as a skip frequency. old down [FUNC], then push and hold [S.
 MW](V/M) H for 1 second to store the paused frequency into the highest blank memory channel. · While holding down [FUNC], the scan pauses; and after
 writing the frequency, the scan resumes. 36 6 SCAN OPERATION Scan resume setting D Scan pause timer The scan pauses when receiving signals,
 according to the scan pause time. It can be set from 220 seconds, or unlimited. q Hold down [SET](TS) for 1 second to enter the Set mode.
 w Rotate [DIAL] to select the "EXPAND" item. e While holding down [FUNC], rotate [DIAL] to turn the Expand set mode selection ON. r Rotate [DIAL] to
 select the "PAUSE" item. t While holding down [FUNC], rotate [DIAL] to set a desired scan pausing time from 220 seconds (2 seconds steps) or "HOLD." ·
 "2SEC""20SEC" : The scan pauses 220 seconds while receiving a signal.
 · "HOLD" : The scan pauses on a received signal until it disappears. using EXPAND SET MODE D Scan resume timer The scan resumes after a signal
 disappears, according to the resume time. It can be set from 05 seconds, or unlimited. q Hold down [SET](TS) for 1 second to enter the Set mode. w Rotate
 [DIAL] to select the "EXPAND" item. e While holding down [FUNC], rotate [DIAL] to turn the Expand set mode selection ON. r Rotate [DIAL] to select the
 "RESUME" item. t While holding down [FUNC], rotate [DIAL] to set a desired scan pausing time from 05 seconds (1 second steps) or "HOLD." : The scan
 resumes immediately after the signal disappears. · "1SEC""5SEC" : The scan resumes 15 seconds after the signal disappears.
 · "HOLD" : The scan resumes only by rotating [DIAL]. · "0SEC" y Push [SET](TS) to exit the Set mode. [DIAL] y Push [SET](TS) to exit the Set mode. After
 1 sec. After 1 sec. The scan resume timer must be set shorter than the scan pause timer, otherwise this timer will not be activated. 37 PRIORITY WATCH
 Priority watch types Priority watch checks for signals on a frequency every 5 seconds, while operating on a VFO frequency or scanning. The receiver has
 four priority watch types to suit your needs. The watch resumes according to the selected scan resume setting. See page 37 for details.
 NOTE: If the pocket beep function is activated, the receiver automatically selects the tone squelch or DTCS squelch function, when priority watch starts. 7
 Mch 000 MEMORY SCAN WATCH While operating on a VFO frequency, priority watch sequentially checks for signals on each memory channel. · The
 memory skip function and/or memory bank scan is useful to speed up the scan. 5 seconds VFO frequency SKIP Mch 001 Mch 002 Mch 1299 6 7 VFO SCAN
 WATCH D About the priority beep function When receiving a signal on the priority frequency, you can be alerted with beeps and a blinking "S." This function
 is activated when setting the priority watch function ON.
 While scanning in the VFO mode, priority watch checks for signals on the selected memory channel every 5 seconds. 5 seconds VFO scan Memory channel
 MEMORY CHANNEL WATCH While operating on a VFO frequency, priority watch checks for a signal on the selected memory channel every 5 seconds. · A
 memory channel with skip information can be watched. VFO/MEMORY SCAN WATCH 5 seconds VFO frequency Memory channel While scanning in the
 VFO mode, priority watch sequentially checks for signals on each memory channel every 5 seconds. · The memory skip function and/or memory bank scan is
 useful to speed up the scan.
 5 seconds VFO scan Mch 000 SKIP Mch 001 Mch 002 Mch 1299 38 7 PRIORITY WATCH Priority watch operation D Memory channel/memory scan watch q
 Select the VFO mode; then, set an operating frequency. w Select the channel(s) to be watched. For a memory channel watch: Select a desired memory
 channel. For a memory scan watch: Push [V/M] to select the memory mode. @@@@e Hold down [SET](TS) for 1 second to enter the Set mode. r Rotate
 [DIAL] to select the priority watch set item. t While holding down [FUNC], rotate [DIAL] to select "ON." · Select "BELL" if the priority beep function is
 desired. y Push [SET](TS) to exit the Set mode and start the watch. · The "PRIO" icon appears.
 · The receiver checks the memory/bank channel(s) every 5 seconds. @@(p. @@For a memory channel watch: Select a desired memory channel. For a
 memory scan watch: Push [V/M] to select the memory mode. @@@@w Hold down [SET](TS) for 1 second to enter the Set mode. e Rotate [DIAL] to select
 the priority watch set item. @@@@(p.



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@ @ @ @ @ Other frequencies and codes can be selected as desired. q Hold down [SET](TS) for 1 second to enter the Set mode. w Rotate [DIAL] to select the "EXPAND" item.

@ @ @ @ @ The receiver mutes the squelch when a signal with the matched tone or code is received. "T SQL-R" / "DTCS -R" is displayed when the reverse tone squelch/reverse DTCS squelch is set. D Pocket beep These functions use 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 receiver. After 1 sec. DTCS code selection After 1 sec.

t While holding down [FUNC], rotate [DIAL] to select a desired subaudible tone frequency or DTCS code. · See the next page for details of available tone frequencies or DTCS codes. y Push [SET](TS) to exit the Set mode. 41 TONE SQUELCH AND POCKET BEEP 8 D DTCS polarity setting · Available 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 As well as the code setting, the polarity setting is also available for DTCS operation. When a different polarity is set, the DTCS never releases the audio mute, even if a signal with matched code number is received.

q Hold down [SET](TS) for 1 second to enter the Set mode. w Rotate [DIAL] to select the "EXPAND" item. @ @ r Rotate [DIAL] to select the "DTCS P" item. [DIAL] NOTE: The receiver has 50 tone frequencies and consequently their spacing is narrow compared to units having 38 tones. Therefore, some tone frequencies may receive interference from adjacent tone frequencies.

· Available DTCS codes 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 8 After 1 sec. t While holding down [FUNC], rotate [DIAL] to select either normal (NORMAL) and reverse (REV) polarity. Normal polarity Reverse polarity y Push [SET](TS) to exit the Set mode. 42 8 TONE SQUELCH AND POCKET BEEP Tone/DTCS squelch operation q Set a desired frequency in the

FM mode. w Hold down [SET](TS) for 1 second to enter the Set mode.

e Rotate [DIAL] to select the "EXPAND" item. r While holding down [FUNC], rotate [DIAL] to turn the Expand set mode ON. t Rotate [DIAL] to select the "TSQL" item. y While holding down [FUNC], rotate [DIAL] to select a desired subaudible tone setting from "TSQLS," "TSQL," "DTCSS," "DTCS," "T SQL-R," "DTCS-R" or "OFF." u Push [SET](TS) to exit the Set mode. · Either "S T SQL," "T SQL," "SDTCS," "DTCS," "T SQL-R" or "DTCS -R" appears, according to the tone selection in step y. Tone squelch with pocket beep DTCS squelch Tone squelch Tone squelch with pocket beep DTCS squelch Tone squelch (reverse) Tone squelch Tone squelch (reverse) DTCS squelch with pocket beep DTCS squelch (reverse) DTCS squelch with pocket beep DTCS squelch (reverse) i When a signal with the matched tone is received, the squelch opens and audio is heard. When the pocket beep function is activated, the receiver also emits beep tones and blinks "S." · Beep tones sound and "S" blinks for 30 seconds. o Push [FUNC] to manually stop the beeps and blinking.

· "S" disappears and the pocket beep function is deactivated. !0 To cancel the tone squelch or DTCS, set the "TSQL" item to "OFF" in the Expand set mode, as described in step y. 43 TONE SQUELCH AND POCKET BEEP 8 Tone scan By monitoring a signal that is being operated with pocket beep, tone or DTCS squelch function, you can determine the tone frequency or DTCS code necessary to open a squelch. q Set the frequency to be checked for a tone frequency or code. w Turn a desired tone type, tone squelch or DTCS ON in the Expand set mode. · One of "TSQL" or "DTCS" appears. · Even the pocket beep function is activated, the function is cancelled when starts the tone scan. r When the CTCSS tone frequency or 3-digit DTCS code is matched, the squelch opens and the tone frequency or code is temporarily programmed into the selected condition, such as memory channel. · The tone scan pauses when a CTCSS tone frequency or 3-digit DTCS code is detected. e While holding down [FUNC], push [] the tone scan.

[DIAL] (MODE) to start NOTE: The decoded tone frequency or code is programmed temporarily when a memory channel is selected. However, this will be cleared when the other memory channel is selected. 8 · To change the scanning direction, rotate [DIAL]. Tone squelch scan DTCS squelch scan For your convenient! Even no tone type is selected, either tone squelch or DTCS, pushing [] (MODE) while holding down [FUNC] also start tone scan. In this case, the tone scan searching for tone squelch frequency only.

44 9 SET MODE D Expand set mode ON/OFF and operation q Hold down [SET](TS) for 1 second to enter the Set mode. w Rotate [DIAL] to select the "EXPAND" item. General The Set mode is used for programming infrequently changed values or options of the receiver's functions. In addition, the IC-R6 has the Expand set mode which is used for programming even more infrequently changed values or options of the functions. When turning the Expand set mode OFF, only half of the Set mode items are displayed, for simple operation.

D Set mode entering and operation q Hold down [SET](TS) for 1 second to enter the Set mode. w Rotate [DIAL] to select a desired item. e While holding down [FUNC], rotate [DIAL] to select a desired value or option. r Push [SET](TS) to exit the Set mode, or repeat steps w and e to set other items. [DIAL] e While holding down [FUNC], rotate [DIAL] to turn the Expand set mode ON or OFF. Expand set mode OFF Expand set mode ON r Rotate [DIAL] to select a desired item. t While holding down [FUNC], rotate [DIAL] to select a desired value or option. y Push [SET](TS) to exit the Set mode, or repeat steps r and t to set other items. 45 SET MODE 9 Set mode items The following items are available in the Set mode and the Expand set mode. D Expand set mode items Guide LOCK SPEED MONI AP OFF PAUSE RESUME STOP B OFFSET DUP TSQL TONE CODE DTCS P VSC B-LINK P-LINK CONT WX ALT AF FIL CHARGE CIVADR CIVBAU CIVTRN Available Item name Key lock effect Dial speed acceleration Monitor switch action Auto power OFF Scan pause timer Scan resume timer Scan stop beep Frequency offset Duplex direction Tone squelch Tone frequency DTCS code DTCS polarity Voice squelch control Memory bank link function Program scan link function LCD contrast Weather alert function AF filter Charge CI-V address CI-V baud rate CI-V transceive in only the USA version.



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