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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-RX7. You'll find the answers to all your questions on the ICOM IC-RX7 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-RX7
User guide ICOM IC-RX7
Operating instructions ICOM IC-RX7
Instructions for use ICOM IC-RX7
Instruction manual ICOM IC-RX7



WIDEBAND RECEIVER
IC-RX7

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 couple of moments of your time to thank you for making your IC-RX7 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-RX7. **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-RX7. **EXPLICIT DEFINITIONS DEFINITION** Personal injury, fire hazard or electric R **WARNING!** shock may occur. **CAUTION NOTE** Equipment damage may occur. Recommended for optimum use. No risk of personal injury, fire or electric shock. **WORD FEATURES** Covers 0.1501300 MHz* wide frequency range *Some frequency bands are inhibited according to version Splash-resistance construction (IPX4*) *Only when the supplied battery pack (or optional battery case), antenna and jack cover are attached.

External power supply operation 1600 memory channels with 26 categories *Plus 200 auto write channels and 25 program edges Versions of the IC-RX7 which display the "CE" symbol on the serial number seal, comply with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed. Optional PC programming i **PRECAUTIONS** **RWARNING!** NEVER operate the receiver with an earphone, headphones or other audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. @@NEVER operate the receiver while driving a vehicle. @@RWARNING! NEVER connect the receiver directly to an AC outlet.

@@The receiver meets IPX4* requirements for splash resistance. @@*Only when the supplied battery pack (or optional battery case), antenna and jack cover are attached. NEVER operate or touch the receiver with wet hands. This may result in an electric shock or damage the receiver. Even when the receiver power is OFF, a slight current still flows in the circuits.

Remove the battery pack or batteries from the receiver while 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. **RCAUTION!** NEVER connect the receiver to a power source other than the specified Icom products. Such a connection will ruin the receiver. **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). Place the unit in a secure place to avoid inadvertent use by children. **RESPECT** other people's privacy. Information overheard but not intended for you cannot lawfully be used in any way. For U.S.

A. only **CAUTION!**: Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations. **DO NOT** use of chemical agents such as benzene or alcohol when cleaning, as they can damage the receiver's surfaces. 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. **SUPPLIED ACCESSORIES** The following accessories are supplied with the receiver. q Hand strap 1 w Antenna 1 e Belt clip 1 r Battery pack (BP-244) 1 t Battery charger* (BC-149A/D) 1 (The shape of the BC-149A and BC-149D are different.) *Not supplied with some versions.

q w e r t iii **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-RX7 receives RF energy from 0.150 MHz* to 1300 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-RX7 may receive its own oscillated frequency, resulting in no reception or only noise reception, on some frequencies. The IC-RX7 may receive interference from extremely strong signals on different frequencies or when using an external high-gain antenna. Icom, Icom Inc. and the logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia and/or other countries. Microsoft, Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. iv **TABLE OF CONTENTS** FOREWORD i **FEATURES** i **IMPORTANT** i **EXPLICIT DEFINITIONS** i **PRECAUTIONS** ii **FCC INFORMATION** iii **SUPPLIED ACCESSORIES** iii **OPERATING THEORY** iv **OPERATING NOTES** iv **TABLE OF CONTENTS** vii 1 **ACCESSORY ATTACHMENT**

.....13 Antenna 1 Belt clip 1 Hand strap 2 Battery installation 2 Optional battery case 3 2 **PANEL DESCRIPTION**
.....49 Front, top and side panels 4 Function display 7 3 **BATTERY CHARGING**1013
Caution 10 Charging 12 Battery information 13 External DC power operation 13 4 **BASIC OPERATION**1419 Power ON
14 Setting audio volume 14 Setting squelch level 15 Monitor function 15 Operating mode selection 16 Receiving mode selection 19 5 **FREQUENCY SETTING**
.....2023 Setting a frequency 20 Setting a tuning step 23 6 **SEARCH AND SCAN OPERATIONS**2448 Search
and scan types 24 Full search 26 Basic search 26 Band search 27 Program search 28 Program link search 29 Search edges programming 30 Program link
programming 32 Auto write search 34 Skip search 36 Priority watch 37 Other SEARCH menu items 40 Link scan 41 All scan 42 Category scan 42 Group
scan 43 Weather channel operation 44 Skip setting for scanning 45 Priority scan 47 Other SCAN menu items 48 v **TABLE OF CONTENTS** 7 **MEMORY
PROGRAMMING**4958 General description 49 Memory channel programming 50 Memory channel selection 55 Copying
memory contents 56 Changing memory contents 57 Clearing memory contents 58 8 **MENU SCREEN OPERATION**5972 General
59 Menu list 60 **MODE/TS/TONE** menu items 62 D Duplex direction (DUPLEX) 62 D Offset frequency (OFFSET FREQ) 62 D Tuning step (TS) 63 D
Receiving mode (MODE) 63 D Tone squelch/DTCS squelch setting (TONE) 64 D Tone squelch frequency (TSQL FREQ) 64 D DTCS code (DTCS CODE) 65 D
DTCS polarity (DTCS POLARITY) 65 D Voice squelch control (VSC) 65 **SETTING** menu items 66 D AM antenna selection (AM ANTENNA) 66 D FM antenna
selection (FM ANTENNA) 66 D RF gain (RF GAIN) 67 D Auto power OFF (AUTO POWER OFF) 67 D Auto power ON (AUTO POWER ON) 67 D Power
save (POWER SAVE) 67 D Dial acceleration (DIAL SPEED-UP) 68 D Key lock type (LOCK) 68 D CI-V setting (CI-V SET) 69 · CI-V address (ADDRESS) 69
· CI-V baud rate (BAUD RATE) 69 · CI-V transceive (TRANSCIVE) 69 **SOUNDS** menu items 70 D Key-touch beep (KEY-TOUCH BEEP) 70 D Beep output
level (BEEP LEVEL) 70 D AF filter (AF FILTER) 70 D Tone control (TONE CONTROL) 71 · Bass level (BASS) 71 · Treble level (TREBLE) 71 **DISPLAY**
menu items 72 D Display backlighting (BACKLIGHT) 72 D LCD contrast (LCD CONTRAST) 72 D Opening logo (OPENING LOGO) 72 D Font size (FONT
SIZE) 72 9 **OTHER FUNCTIONS**¬9598 vii **ACCESSORY ATTACHMENT** Antenna Screw down the
antenna as shown below.



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NEVER carry the receiver by holding and monitor the operating frequency. (p. 15) After pushing and holding this key for 1 sec., rotate [DIAL] to adjust the squelch level.

(p. 15) HOLD/VFO KEY [HOLD V] Push to stop searching or scanning temporarily, and push again to return previous condition. (p. 18) Push and hold for 1 sec. to select VFO mode. (p. 16) SCAN KEY [SCAN] Push to start a scan. (p. 18) SCAN Push and hold for 1 sec. to enter SCAN menu. SEARCH KEY [SEARCH] SEARCH Push to start a search. (p. 26) Push and hold for 1 sec. to enter SEARCH menu. (Continue to the next page.

..) 5 NUMERAL KEYS [0] to [9] Enter the frequency in VFO mode or memory programming state. (pgs. 20, 21, 55) After pushing [NO.

DIAL], select the memory name number directly in scan mode. (p. 55) 9 After pushing [- ATT], turn the scan link setting ON and OFF in scan mode. (p. 51) NUMBER/DIAL KEY [NO. DIAL] Push this key then push numeral keys to select the memory channel name (number) in DIAL the memory category directly. (p. 55) Push and hold for 1 sec. to exchange the assigned functions between [DIAL] and [r]/[s].

(p. 77) 2 PANEL DESCRIPTION ENTER/MEMORY WRITE KEY [ENT MW] ENT During VFO mode, search holding state or scan mode, push and hold for 1 sec. to enter MW memory programming state. (pgs. 50, 56, 57) During search operation, push and hold for 1 sec. to turn the auto write search function ON and OFF. (p. 34) During memory programming state, push and hold for 1 sec. to write the operating frequency into the selected memory channel. During menu screen operation or memory programming state, push to enter to the selected set items, etc.

(p. 59) MENU/LOCK KEY [MENU] Push to select menu screen indication ON. MENU (p. 59) Push and hold for 1 sec. to toggle the lock function ON and OFF.

(p. 75)] POWER KEY [Push for 1 sec. to turn the receiver power ON or OFF. (p. 14) ATTENUATOR KEY [- ATT] During VFO mode, push to input MHz digit for ATT frequency entry.

(pgs. 20, 21) During link scan, push this key then push numeral keys to turn the link setting ON and OFF. (p. 51) · Direct key number 0 to 9 can be selected by numeral key only. Push and hold for 1 sec. to turn the attenuator function ON and OFF. (p. 75) SKIP KEY [SKIP] During scan holding state, push to set the SKIP memory channel as the following skip channel in order. (p. 46) · Skip channel -- "SKIP" appears.

· Frequency skip channel -- "PSKIP" appears. · Non-skip channel -- no skip indicator appears. During search operation, push and hold for 1 sec. to program a paused frequency as a skip frequency. (p. 36) During link scan operation, push and hold for 1 sec. to select the group skip setting ON and OFF. (p. 46) 6

PANEL DESCRIPTION LEFT/RIGHT KEY [v]/[w] During VFO mode or search mode, push to select the operating frequency band. (p.

18) During VFO mode, push and hold for 1 sec. to select and toggle 1 MHz and 10 MHz tuning steps. (p. 22) During scan mode, push to select the group. (p. 18) During scan mode, push and hold for 1 sec. to select the category. (p. 18) During menu screen operation, push to select the upper layer or lower layer. (p.

59) UP/DOWN/VOLUME CONTROL KEY [r]/[s] Adjust audio volume level. (p. 14) During menu screen operation, push to select the set items or values. (p.

59) 2 Function display @0 !9 !8 !7 !6 !5 !4 !3 2 q w e r !2 !1 !0 ty u i o The function of tuning control and volume control can be traded. See page 77 for details. q ICON INDICATOR (p. 52) Displays a variety of icon. · Following 23 icons are available for category programming, TRUCK, BUS, CAR, RACE CAR, TAXI, MOTORCYCLE, TRAIN, SHIP, YACHT, AIRCRAFT, GLIDER, HAM, HAM HH, RADIO, TV, EMERGENCY, FIRE, WEATHER, HUMAN,

ANIMAL, BUILDING, HOUSE and PROGRAM SEARCH. (Continue to the next page.

..) 7 2 PANEL DESCRIPTION @0 !9 !8 !7 !6 !5 !4 !3 r FREQUENCY READOUT Displays a variety of information, such as operating frequency, memory names. · The decimal point blinks during search. q w e r !2 !1 !0 ty u i o t RECEIVING MODE INDICATOR (p. 19) Shows the selected receiving mode. · FM, WFM and AM are available, depending on operating band. · "u" appears when auto mode is selected for USA version. y S-METER Shows the relative signal strength while receiving signals. u PRIORITY WATCH INDICATOR (pgs.

38, 39, 47) Appears when priority watch is in use. i SKIP INDICATOR "SKIP" appears when the selected memory channel is set as a skip channel. (pgs. 46, 55) "PSKIP" blinks during skip search operation. (p.

36) o AUTO WRITE SEARCH INDICATOR Blinks during auto write search operation. (p. 34) !0 MEMORY NUMBER INDICATOR Shows the selected memory number. (pgs. 54, 55) w CATEGORY INDICATOR (p.

52) During scan mode, the programmed memory category is displayed. e MEMORY GROUP INDICATOR (p. 53) During scan mode, the programmed memory group is displayed. · This number is assigned to memory name and use this number for memory management in each memory category. Memory organization: Category u Group u Name u Channel · This number is assigned to memory channel for basic search. The basic search can be re-programmed by optional CS-RX7. !1 STATUS INDICATOR Shows the receiver's status such as "HOLD," "SCAN," "SEARCH" or "MEMORY." 8 PANEL DESCRIPTION !2 KEY LOCK INDICATOR (p. 75) Appears when the key lock function is activated. !3 DIAL STATUS INDICATOR (p.

77) "DIAL" appears when [DIAL] is assigned as frequency control. · In this case, [r]/[s] keys are activate for volume control. 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 9 !7 DUPLEX INDICATOR (pgs. 76, 77) "+DUP" appears when plus duplex, "DUP" appears when minus duplex is selected. !8 RF GAIN INDICATOR (p. 74) "RF" appears when the RF gain is adjusted other than "MAX." !9 ATTENUATOR INDICATOR (p. 75) Appears when the RF attenuator is in use. @0 BATTERY INDICATOR (p. 13) When BP-244 is attached " " (battery indicator) appears when the battery pack has ample capacity.

" " appears when the battery pack is nearing exhaustion, and it must be charged. " " blinks before the battery pack is exhausted. The indicator shows " , " " and " (disappears)" in sequence while charging the attached battery pack, and indicator disappears when completely charged. When BP-262 is attached " " (battery indicator) appears when the installed batteries have ample capacity. " " appears when the installed batteries are nearing exhaustion.

" " blinks before the installed batteries are exhausted. "VOL" appears when [DIAL] is assigned as volume control. · In this case, [r]/[s] keys are activate for frequency control. !4 AUTO POWER OFF INDICATOR (p. 84) Appears when the auto power OFF function is in use.



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!5 TONE SQUELCH INDICATOR (pgs. 78, 79) Available only when FM mode is selected. "TSQL" appears while the tone squelch function is in use. "TSQL-R" appears while the reverse* tone squelch function is in use. "DTCS" appears while the DTCS squelch function is in use. "DTCS-R" appears while the reverse* DTCS squelch function is in use. "S" appears with the "TSQL" or "DTCS" indicator while the pocket beep function (with CTCSS or DTCS) is in use.
* Reverse tone squelch or reverse DTCS squelch opens when the signal is received with unmatched tone or DTCS. **!6 VOICE SQUELCH CONTROL INDICATOR** (p. 85) Appears when VSC (Voice squelch control) function is in use.

3 BATTERY CHARGING Caution Misuse of Lithium-Ion batteries may result in the following hazards: smoke, fire, or the battery may rupture. Misuse can also cause damage to the battery or degradation of battery performance. · **R DANGER!** Use and charge only specified Icom battery packs with Icom radios. Only Icom battery packs are tested and approved for use with Icom radios. Using third-party or counterfeit battery packs 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 receiver 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. · **WARNING!** Immediately stop using the battery if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your Icom dealer or distributor. · **WARNING!** Immediately wash, using clean water, any part of the body that comes into contact with fluid from inside the battery. **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. **10 BATTERY CHARGING 3** · **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 for the receiver (10°C to +60°C; +14° F to +140°F) and the battery itself (20°C to +60°C; 4°F to +140°F). Using the battery out of its specified temperature range will reduce the battery's performance and battery life. Please note that the specified temperature range of the battery may exceed that of the receiver.

In such cases, the receiver may not work properly because it is out of its operating temperature range. · **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, then keep it safely in a cool dry place with the below temperature range. 20°C (4°F) to +50°C (+122°F) (within a month). 20°C (4°F) to +35°C (+95°F) (within three months). 20°C (4°F) to +20°C (+68°F) (within a year). **D Charging caution** · **R DANGER!** NEVER charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun heated car, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging. · **WARNING!** DO NOT charge or leave the battery in the receiver beyond the specified time for charging.

If the battery is not completely charged by the specified time, stop charging and remove the external DC power from the receiver. Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture. · **CAUTION!** DO NOT charge the battery outside of the specified temperature range: +5°C to +35°C (+41°F to +95°F). Icom recommends charging the battery at +25°C (+77°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. **3 11 3 BATTERY CHARGING** Charging Prior to using the receiver for the first time, the battery pack must be fully charged for optimum life and operation. **D Battery indicator and charging indicator** When the receiver's power is OFF, the charging indicator shows " , " " and " " in sequence with "Charging...

" while charging, and indicator disappears when completely charged. When the receiver's power is ON, the battery indicator shows " , " " and " (disappears)" in sequence while charging, and indicator disappears when completely charged. **q** Insert the battery pack (BP-244) into the receiver. (p. 2) **w** Plug the battery charger (BC-149A/D*) into an AC outlet; or the optional CP-18A/E into a cigarette lighter socket. * Not supplied with some versions. **e** Turn OFF the receiver, then insert the adapter plug into [DC 6V] of the receiver. Optional CP-18A/E Cigarette lighter cable with DC-DC converter to cigarette lighter socket **D Charging note** · Be sure to turn the receiver power OFF. Otherwise the battery pack will not be charged completely or takes longer to charge time periods. to [DC 6V] jack to AC outlet · External DC power operation becomes possible when using an optional CP-18A/E.

The attached battery pack is also charged simultaneously.



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· If your battery pack seems to have no capacity even after being charged, fully charge the battery pack again. If the battery pack still does not retain a charge (or very little), a new battery pack must be purchased. 12 IC-RX7 Turn power OFF. Battery charger BC-149A/D Charging periods: approx. 5 hours CAUTION: BE SURE to disconnect the CP-18A/E from the cigarette lighter socket when charging is finished. A slight current drain from the CP-18A/E will eventually drain the vehicle's battery. BATTERY CHARGING 3 Battery information D Battery life The receiver operates with the BP-244 Li-ion battery pack or BP-262 Battery case as follows. · BP-244: Approx. 8 hours *1 · BP-262: Approx.

16.5 hours *1, *2 (Continuous receiving at rated AF output with backlight OFF) *1 Operating time may differ depending on the operating conditions. *2

Operating time may differ depending on the installed batteries. External DC power operation An optional cigarette lighter cable (CP-18A/E; for 12 V cigarette lighter socket) can be used for external power operation. 3 D Operating note · BE SURE to use CP-18A/E when connecting a regulated 12 V DC power supply.

Use an external DC-DC converter to connect the receiver through optional CP-18A/E to a 24 V DC power source. · The receiver may receive switching noise from the connected switching DC-DC converter (or power supply) depending on the operating frequencies and/or using antenna, etc. · The power save function is deactivated automatically during external DC power operation. Even when the receiver power is OFF, a small current still flows in the receiver.

Remove the battery pack or case from the receiver when not using it for a long time.

Otherwise, the battery pack or installed batteries will become exhausted. D Battery indicator The battery indicator, " " or " " appears when the BP-244 or BP-262 is attached to the receiver, and when the battery indicator, " ," blinks before the BP-244 or BP-262 is exhausted. The battery indicator does not appear during turning power ON when the BP-244 is still connected to the battery charger or an external DC power source. Indication Battery condition The battery pack or case has ample capacity. The battery pack or case is nearing exhaustion. Charging (BP-244) or replacing batteries (BP-262) is necessary. D CP-18A/E fuse replacement If the fuse blows or the receiver stops functioning while operating with the optional CP-18A/E, find the source of the problem if possible, and replace the damaged fuse with a new rated one (FGB 5 A) as shown below. Fuse 5 A 13 4 BASIC OPERATION Setting audio volume] for 1 sec. to turn power ON.] for 1 sec.

to turn power OFF. Power ON Push and hold [· Push and hold [Push [r] or [s] several time to adjust the audio level. · If squelch is closed, push and hold [CLR SQL] for 1 sec. to activate the monitor function ON while setting the audio level. Push [CLR SQL] again to return to normal operating mode. · The display shows the volume level while setting. DIAL NO. MENU CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP . 7 ATT CLR DIAL NO. MENU SQL CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP .

7 ATT Volume level indicator During menu screen operation or memory programming state, audio volume cannot be adjusted. Minimum setting (no audio) Maximum setting Beep level is adjustable in SOUNDS menu. MENU SOUNDS BEEP LEVEL (p. 70) 14 BASIC OPERATION 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 15 Setting squelch level 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 squelch setting.

After pushing and holding [CLR SQL] for 1 sec., rotate [DIAL] to select the squelch level. · "LEVEL 1" is loose squelch (for weak signals) and "LEVEL 9" is tight squelch (for strong signals). · "AUTO" indicates automatic level adjustment by a noise pulse counting system. · "OPEN" indicates continuously open setting.

· Push [CLR SQL] to return to normal operating mode. [DIAL] Monitor function This function is used to listen to weak signals without disturbing the squelch setting or to open the squelch manually even when mute functions such as the tone squelch are in use. Push and hold [CLR SQL] for 1 sec. to monitor the operating frequency. · Push [CLR SQL] to clear the monitor function. CLR DIAL NO. MENU SQL CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP . 7 ATT The 1st segment blinks CLR DIAL NO. MENU SQL CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP . 7 ATT Automatic squelch The squelch adjustment is available when the monitor function is active.

See details on left. Maximum level 4 BASIC OPERATION Operating mode selection D VFO mode VFO mode is used for the desired frequency setting within the frequency coverage. Push and hold [HOLD V] for 1 sec. to select VFO mode. · When VFO mode is selected, the previous displayed frequency, receiving mode, tuning steps, etc. are copied to VFO mode. D Operating band selection The receiver can receive the AM broadcast, HF bands, 50 MHz, FM broadcast, VHF air, 144 MHz, 300 MHz, 400 MHz, 800 MHz* or 1200 MHz bands. In VFO mode, push [v] or [w] several times to select the desired frequency band. · If VFO mode is not selected, such as a scan mode, or weather channel, push and hold [HOLD V] to select VFO mode first, then push [v] or [w] to select the desired band. (Available for USA and CANADA versions only.

) · Search mode is also selectable operating bands. · VFO mode indication DIAL NO. MENU CLR SQL MW ENT HOLD V HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP . 7 ATT Available frequency bands are different depending on version. See the specification for details. (p. 91) * Some frequency ranges are blocked for the U.S.A. version by regulation.

What is VFO? VFO is an abbreviation of Variable Frequency Oscillator. Frequencies for receiving are generated and controlled by the VFO. Set the attenuator function ON (p. 75) if the received signal is blocked by other radio station when using a third party high-gain antenna. 16 BASIC OPERATION · Available frequency bands 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 17 AM broadcast band HF band 50 MHz band FM broadcast band : Push : Push 1200 MHz band Initial frequencies shown differ according to version. VHF air band 800 MHz band 400 MHz band 300 MHz band 144 MHz band 4 BASIC OPERATION D Scan mode Scan mode searches for signals from the pre-programmed memory channels automatically.



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Scan mode is described in more detail in Section 6--SEARCH AND SCAN OPERATIONS. q Push [SCAN] to start a scan. · Scan pauses when a signal is received. · Rotate [DIAL] to change the scanning direction.

D Search mode Search mode searches for signals for specified tuning steps automatically and makes it easier to locate new stations for listening purpose.

Search mode is described in more detail in Section 6--SEARCH AND SCAN OPERATIONS. q Push [SEARCH] to start a search. · Search pauses when a signal is received. · Rotate [DIAL] to change the searching direction. w Push [v] or [w] several times to select the desired frequency band. e Push [HOLD V] to stop the search temporarily, if desired. · Rotate [DIAL] to change the frequency. · Push [HOLD V] again to restart the search. w Push [HOLD V] to stop the scan temporarily, if desired.

· Push and hold [v] or [w] for 1 sec. @@ · Rotate [DIAL] to select the channel. · Push [HOLD V] again to restart the scan. · Search mode indication · Scan mode indication DIAL NO. MENU CLR SQL MW ENT DIAL NO.

MENU HOLD V SEARCH HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP CLR . 7 ATT HOLD V SCAN SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP . 7 ATT Arrow indicates searching direction About the searching steps: The selected tuning step in each frequency band (in VFO mode) is used during search. 18 Arrow indicates scanning direction During scan holding state, memory channels can be selected by the rotating [DIAL]. BASIC OPERATION 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 19 Receiving mode selection Receiving modes are determined by the modulation of the radio signals.

The receiver has 3 operating modes: FM, WFM and AM modes. The mode selection is stored independently for each operating band and memory channels. (Auto mode is available for USA version only.) Typically, AM mode is used for the AM broadcast stations (0.4951.620 MHz) and air band (118136.995 MHz), and WFM is used for FM broadcast stations (76107.9 MHz). DIAL [DIAL] Push MENU MENU NO. MENU CLR q Enter "MODE" in MODE/TS/TONE.

.. menu. MENU MODE/TS/TONE MODE (p. 63) (Push [MENU]), (Push [r]/[s], then push [ENT MW].) SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW . 7 ATT w Push [r]/[s] (or rotate [DIAL]) to set the mode. e Push [ENT MW] (or [v]) to return to MODE/TS/TONE...

menu, and push [CLR SQL] to return to frequency indication. ENT Push MW 5 FREQUENCY SETTING Setting a frequency D Via the keypad (Direct frequency entry) The frequency can be directly set via numeric keys. · If a frequency outside the frequency range is entered, the previously displayed frequency is automatically recalled after editing last digit. q Push and hold [HOLD V] to select VFO mode, if necessary. w Enter the desired frequency via the keypad. · Pushing [ENT MW] omits the entry of 100 kHz and below, when you want to edit to those digits "0." · When a digit is mistakenly input, push [CLR SQL] to abort input. Depending on the tuning step setting, it may not be possible to input a 1 kHz digit. In this case, enter "0" as 1 kHz digit, then rotate [DIAL] to set the desired frequency. CLR SQL DIAL NO.

MENU CLR SQL MW ENT MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP 1 4 2 5 8 0 3 6 9 . 7 ATT . 7 ATT 20 FREQUENCY SETTING 5 D Display example · Entering 0.820 MHz 0 · Entering 1260 MHz 1 · Changing 100 kHz and below. Editing 1260.000 MHz to 1260.240 MHz 5 . ATT 2 . ATT 8 6 2 2 0 4 0 MW ENT 0 21 5 FREQUENCY SETTING D Via the dial q Push and hold [HOLD V] for 1 sec. to select VFO mode, if necessary.

w Push [v] or [w] to select the desired frequency band. e Rotate [DIAL] to select the desired frequency. · The frequency changes according to the preset tuning steps. See the next page for setting the tuning step. [DIAL] CONVENIENT! (MHz tuning step mode) Push and hold [v] or [w] for 1 sec. then rotate [DIAL] to change the frequency in 1 MHz steps, or push [v] again then rotate [DIAL] to change the frequency in 10 MHz steps. (After entering MHz tuning step mode, pushing [v] or [w] selects 10 MHz tuning steps or 1 MHz tuning steps, respectively.) DIAL NO. MENU CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP . 7 ATT [DIAL] changes the frequency according to the selected tuning step.

Push CLR SQL Push and hold or for 1 sec. Push Push 22 FREQUENCY SETTING 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 23 Setting a tuning step The tuning step can be selected for each frequency band. The following tuning steps are available for the IC-RX7. (Auto tuning step is available for USA version only.) · 5.

0 kHz · 6.25 kHz · 7.5 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 [DIAL] Push MENU Appears for the VHF air band only.

Appears for the AM broadcast band only. DIAL MENU NO. MENU CLR SQL MW ENT D Tuning step selection q Push and hold [HOLD V] for 1 sec. to select VFO mode, if necessary. w Push [v] or [w] to select the desired frequency band. e Enter "TS" in MODE/TS/TONE... menu. MENU MODE/TS/TONE TS (p.

63) (Push [MENU]), (Push [r]/[s], then push [ENT MW].) HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW . 7 ATT r Push [r]/[s] (or rotate [DIAL]) to select the tuning step. t Push [ENT MW] (or [v]) to return to MODE/TS/TONE..

· menu, and push [CLR SQL] to return to frequency indication. ENT Push MW 6 SEARCH AND SCAN OPERATIONS Search and scan types The IC-RX7's search and scan types are powerful tools for finding new stations, fast. FULL SEARCH (p. 26) Repeatedly searches all frequencies over the entire band. Some frequency ranges are not searched according to the frequency coverage of the receiver's version. 150 kHz Search Jump 1300.000 MHz PROGRAM SEARCH (p. 28) Repeatedly searches between two user-programmed frequencies. Used for checking for frequencies within a specified range such as repeater output frequencies, etc. Band edge Edges LOW Search Jump Band HIGH edge BASIC SEARCH (p. 26) Repeatedly searches all frequencies over the preprogrammed band by the optional cloning software CS-RX7. Air, Marine, Ham, Racing, Broadcast, and etc. are available (default setting). Band edge Category (Programmed band) Search Jump Band edge PROGRAM LINK SEARCH (p.

29) Repeatedly searches userprogrammed frequencies selected at PROGRAM LINK item in the SEARCH menu.



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All program searches are linked in default settings. Edges LOW No.01 Search Band edge HIGH LOW Jump Jump Edges HIGH No.02 Search Band edge Band edge When the program search No.1 and No.2 are linked. BAND SEARCH (p. 27) Repeatedly searches all frequencies over the entire selected band. Band edge Search Jump Band edge AUTO WRITE SEARCH (p.

34) The frequencies that the search pauses on are automatically stored into memory channels. Edge Search Pause Jump Pause 002 001 000 Auto write Edge channels 199 24 SEARCH AND SCAN OPERATIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 25 NOTE: Search or scan operation can be stopped temporarily by pushing [HOLD V], but they cannot be cancelled. ALL SCAN (p. 42) Repeatedly scans all memory channels. HAM AIR AIR F1 F1 Category HAM HAM F1 Group GROUP SCAN (p.

43) Repeatedly scans all memory channels in the group. GROUP: Team1 Ricky Tom CREW John Name CATEGORY SCAN (p. 42) Repeatedly scans all memory channels in the category. CATEGORY: F1 Team2 Team2 Team1 Team1 Team3 Team3 Team3 Team1 Name Group LINK SCAN (p. 41) Repeatedly scans all memory channels in the category/ group which selected in the category/group settings.

Category (AIR) is set to link-OFF TV LINK ON HAM LINK ON LINK OFF AIR Category F1 LINK ON FREQUENCY/MEMORY SKIP FUNCTION (pgs. 36, 45, 46) Skips unwanted frequencies or memory channels that inconveniently stop searching (or scanning). This can be turned ON/OFF by each memory channel/name/group/category. Band Edge Search SKIP Jump SKIP Band Edge AIR HAM HAM SKIP HAM Group F1 SKIP AIR Category F1 F1 Example: All scan Example: Band search 6 SEARCH AND SCAN OPERATIONS Full search q Push [SEARCH] to start the full search. · Search pauses when a signal is received. · Rotate [DIAL] to change the searching direction. Basic search q Enter "BASIC SEARCH" in SEARCH menu. MENU SEARCH BASIC SEARCH (Push [MENU]), (Push [r]/[s], then push [ENT MW].) · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec. · 1st category appears.

w Push [v] or [w] several times to select the desired frequency band. e Push [HOLD V] to stop the search temporarily, if desired. · Push [HOLD V] again to restart the search. w Push [r]/[s] (or rotate [DIAL]) to select the desired category, then push [ENT MW] to start the search. · Search pauses when a signal is received. · Rotate [DIAL] to change the searching direction. Arrow indicates searching direction DIAL e Push [HOLD V] to stop the search temporarily, if desired. · Push [HOLD V] again to restart the search. NO. MENU CLR SQL MW ENT HOLD V SEARCH HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP . 7 ATT MENU "ALL" indicator appears during full search HOLD V DIAL NO. MENU CLR SQL MW ENT HOLD SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW . 7 ATT About the searching steps: The selected tuning step in each frequency band (in VFO mode) is used during search. ENT Push MW "BASIC" and selected category appear The frequencies of the basic search are changed by optional CS-RX7. 26 SEARCH AND SCAN OPERATIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 27 Band search q Enter "BAND SEARCH" in SEARCH menu.

MENU SEARCH BAND SEARCH (Push [MENU]), (Push [r]/[s], then push [ENT MW].) · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec. · Band selection screen appears. MENU DIAL w Push [r] or [s] several times (or rotate [DIAL]) to select the desired frequency band, then push [ENT MW] to start the search. · Search pauses when a signal is received.

· Rotate [DIAL] to change the searching direction. · After started the search, searching frequency band can be changed by pushing [v] or [w]. NO. MENU CLR SQL MW ENT HOLD V 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW HOLD V SCAN SEARCH . 7 ATT e Push [HOLD V] to stop the search temporarily, if desired. · Push [HOLD V] again to restart the search. Last used frequency in each band is displayed on band selection screen. ENT Push MW "BAND" indicator appears during band search 6 SEARCH AND SCAN OPERATIONS Program search q Enter "PROGRAM SEARCH" in SEARCH menu. MENU SEARCH PROGRAM SEARCH (Push [MENU]), (Push [r]/[s], then push [ENT MW].) MENU DIAL · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec.

· Program number selection screen appears. NO. MENU w Push [r] or [s] several times (or rotate [DIAL]) to select the desired program number, then push [ENT MW] to enter the program. · A total of 25 program numbers (No. 00 to No. 24) are available. CLR SQL MW ENT HOLD V 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW HOLD V SCAN SEARCH . 7 ATT e Push [ENT MW] again to start the search. · Search pauses when a signal is received. · Rotate [DIAL] to change the searching direction.

· After started the search, program number can be changed by pushing [v] or [w]. ENT Push MW r Push [HOLD V] to stop the search temporarily, if desired. · Push [HOLD V] again to restart the search. NOTE: Program searches can be customized, see pages 30, 31 for programming details. ENT Push MW Selected program number appears 28 SEARCH AND SCAN OPERATIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 29 Program link search q Enter "PROGRAM LINK SEARCH" in SEARCH menu.

MENU SEARCH PROGRAM LINK SEARCH (Push [MENU]), (Push [r]/[s], then push [ENT MW].) · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec. · Program link number selection screen appears. w Push [r] or [s] several times (or rotate [DIAL]) to select the desired program link number, then push [ENT MW] to enter the link edit state. · A total of 10 program link numbers (No. 0 to No. 9) are available. DIAL NO. MENU CLR SQL MW ENT HOLD V 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW HOLD V SEARCH SCAN SEARCH . 7 ATT e Push [ENT MW] again to start the search. · Search pauses when a signal is received. · Rotate [DIAL] to change the searching direction. · After started the search, program link number can be changed by pushing [v] or [w]. ENT Push MW r Push [HOLD V] to stop the search temporarily, if desired. · Push [HOLD V] again to restart the search.

NOTE: All program searches are linked in default settings. Program links can be customized, see pages 32, 33 for programming details. ENT Push MW Selected link number appears 6 SEARCH AND SCAN OPERATIONS Search edges programming Search edges programming can be stored frequency edges, receiving mode, tuning steps, attenuator ON/OFF and search name.



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Any other items than the frequency edges are not necessary to program. In this case, settings of each frequency band are used to the search. q Enter "PROGRAM SEARCH" in SEARCH menu. MENU SEARCH PROGRAM SEARCH (Push [MENU]), (Push [r]/[s], then push [ENT MW].) · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec. · Program number selection screen appears. · EDIT e Push [s] once (or rotate [DIAL]) to select "EDIT," then push [ENT MW] (or [w]).

r Set the desired edge frequencies either "LOW" or "HIGH." · Push [s] once or twice (or rotate [DIAL]) to select the item. · Other items cannot be programmed until these frequencies are input. w Push [r] or [s] several times (or rotate [DIAL]) to select the desired program number, then push [ENT MW] to enter the program. LOW/HIGH q Push [ENT MW] (or [w]) to enter the frequency input.

MENU DIAL w Edit the desired frequency with keypad (pgs. 20, 21). Push MW NO. MENU CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT . 7 ATT e Push [r] or [s] to select another edge, then edit different frequency.

30 SEARCH AND SCAN OPERATIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 31 t Set the other items, if desired. · Push [r] or [s] several times (or rotate [DIAL]) to select the item, then push [ENT MW]. TS/MODE/ATT q ush [ENT MW] (or [w]) to edit the tuning step setting. P NAME q ush [ENT MW] (or [w]) to edit the name programP ming. w otate [DIAL] to select the desired character. R · The selected character blinks. · Push [r] or [s] to select the character group from "ABC" (alphabetical characters; capital letters), "abc" (alphabetical characters; lower case letters), "123" (numbers) or "!"#" (symbols). See next page for available characters details. · Push [v] or [w] to move the cursor left or right, respectively. · Push [CLR SQL] to clear the selected character.

· Push and hold [CLR SQL] to repeat clearing continuously. w ush and hold [r]/[s] (or rotate [DIAL]) to select the P desired setting. e ush [ENT MW] (or [w]) to set the setting. P r et the mode or attenuator settings as same as steps S q to e. · CLEAR Continue from previous page's step w. e Push [s] twice (or rotate [DIAL]) to select "CLEAR," then push [ENT MW] (or [w]). · "CLEAR?" window appears. e ush [ENT MW] to set the name and return to the proP gram edge edit state. r Push [r] (or rotate [DIAL]) to select "YES," then push [ENT MW]. · Select "NO," then push [ENT MW] to cancel clearing.

t Push [v] to finish the search edges clearing and return to the program number selection screen. 6 SEARCH AND SCAN OPERATIONS Program link programming Each program link can be programmed by linking program searches (No. 00 to No. 24), and can be programmed with an alphanumeric link name for easy recognition. 10 kinds of links are available.

q Enter "PROGRAM LINK" in SEARCH menu. MENU SEARCH PROGRAM LINK (Push [MENU]), (Push [r]/[s], then push [ENT MW].) · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec. · Program link number selection screen appears. e Push [s] several time (or rotate [DIAL]) to select the following operations.

NAME q ush [ENT MW] (or [w]) to edit the link name programP ming. w otate [DIAL] to select the desired character. R · Selected character blinks. · Push [r] or [s] to select the character group from "ABC" (alphabetical characters; capital letters), "abc" (alphabetical characters; lower case letters), "123" (numbers) or "!"#" (symbols). · Push [v] or [w] to move the cursor left or right, respectively. · Push [CLR SQL] to clear the selected character. · Push and hold [CLR SQL] to repeat clearing continuously. w Push [r] or [s] several times (or rotate [DIAL]) to select the desired program link number, then push [ENT MW] to enter the link edit state. MENU DIAL NO. MENU CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW e ush [ENT MW] to set the name and return to the link P edit state.

· Available characters ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789 ! " # \$ % & ' () * + , . / : ; < = > ? @ [\] ^ _ ` { | } ~ (Space) . 7 ATT 32 SEARCH AND SCAN OPERATIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 33 CLEAR q ush [ENT MW] (or [w]) to edit the link clearing. P · If all program searches are already cleared in the selected program link number, this item cannot be edited. ADDITION q ush [ENT MW] (or [w]) to edit the adding link. P · If all program searches are already linked in the selected program link number, this item cannot be edited. w ush [r] or [s] (or rotate [DIAL]) to select the proP gram search to be unlinked. e ush [ENT MW] (or [w]) to unlink the program search. P · "CLEAR?" window appears. r ush [r] (or rotate [DIAL]) to select "YES," then push P [ENT MW].

· Select "NO," then push [ENT MW] to cancel clearing. w ush [r] or [s] (or rotate [DIAL]) to select the deP sired program search. e ush [ENT MW] to set the link. P r ush [v] to finish the adding link and return to the link P edit state. DETAIL q ush [ENT MW] (or [w]) to enter the program link deP tails.

· If no program searches are linked in the selected program link number, this item cannot be entered. Link clear t ush Cancel clearing link clearing and return to the P [v] to finish the link edit state. w ush [r] or [s] to select the program search. P e ush [ENT MW] (or [w]) to enter the program search. P r ush [v] to return to the link edit state.

P 6 SEARCH AND SCAN OPERATIONS Auto write search This search is useful for searching a specified frequency range and automatically storing busy frequencies into memory channels. The auto write search is performed with any search types. A total of 200 independent channels are available for storing auto write memory. q Push [SEARCH] to start the full search. · Any other searches are also available (see pages 26 to 29). · Search pauses when a signal is received. · Rotate [DIAL] to change the searching direction. D During auto write searching: · When a signal is received, search pauses and the frequency is stored into auto write channel group (CH000 CH199). - 2 short beeps sound when stored. · Search resumes after frequency storing.

· When all channels are stored, the search is cancelled automatically and 1 long beep sounds. w Push and hold [ENT MW] for 1 sec. to turn the auto write function ON and OFF.



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· "AW" indicator blinks. · During auto write search DIAL NO. MENU CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT . 7 ATT "AW" indicator blinks during auto write search. e Push [HOLD V] to stop the auto write search. 34 SEARCH AND SCAN OPERATIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 35 D Recalling the stored frequencies: q Enter "AUTO WRITE CH" in SEARCH menu. MENU SEARCH AUTO WRITE CH (Push [MENU]), (Push [r]/[s]), then push [ENT MW].

) · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec. · Auto write channel appears. D Clearing the stored frequencies: q Select the auto write channel group. w Push and hold [SKIP] for 1 sec. to clear the all channel contents. · 1 short and 1 long beeps sound. DIAL NO. MENU MENU DIAL CLR SQL MW ENT HOLD V SCAN 1 4 2 5 8 0 3 6 9 SKIP NO. MENU CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW SEARCH . 7 ATT SKIP .

7 ATT "AW" indicator appears w Rotate [DIAL] to select the desired channel. NOTE: The auto write channel contents CANNOT be cleared by an independent channel. Thus it is a good idea to copy the contents into regular memory channel. 6 SEARCH AND SCAN OPERATIONS Skip search During search operation, you can store the paused frequency into memory channel as a skip channel which is skipped during search. This setting is useful to speed up the search rate. D Operation q Push [SEARCH] to start the full search. · Any other searches are also available (see pages 26 to 29). · "PSKIP" indicator blinks. · Search pauses when a signal is received. · Rotate [DIAL] to change the searching direction.

D Setting q Enter "PROGRAM SKIP" in SEARCH menu. MENU SEARCH PROGRAM SKIP (Push [MENU]), (Push [r]/[s]), then push [ENT MW].) · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec. w When search pauses and you want to set the paused frequency as a skip frequency. Push and hold [SKIP] for 1 sec. to store the frequency into skip channel group in program search category. · Program search (category)/PSKIP (group) are made automatically when first skip channel is stored. · 1 long beep and 2 short beeps sound when stored. w Push [r]/[s] (or rotate [DIAL]) to select the program skip setting ON or OFF. e Push [ENT MW] (or [v]) to return to SEARCH menu, and push [CLR SQL] to return to frequency indication. · During Program skip search DIAL NO. MENU CLR SQL MW ENT HOLD V 1 4 2 5 8 0 3 6 9 SKIP MENU DIAL SCAN SEARCH NO. MENU CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW . 7 ATT SKIP . 7 ATT "PSKIP" indicator blinks during program skip search.

e After that, stored frequencies are skipped during search. · This setting can be turned OFF by entering "PROGRAM SKIP" in SEARCH menu (see details on left). 36 SEARCH AND SCAN OPERATIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 37 Priority watch D Priority watch types Priority watch checks for signals on the memory channel(s) every 5 sec. while operating on VFO mode or searching. The receiver has 3 priority watch type to suit your needs.

The watch resumes according to the selected search resume condition. See page 40 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. MEMORY CHANNEL WATCH While operating on a VFO frequency, priority watch checks for a signal on the selected memory channel every 5 sec. · A memory channel with skip information can be watched. 5 sec. VFO frequency Memory channel MEMORY CHANNEL WATCH DURING SEARCH During search operation, priority watch checks for signals on the selected memory channel every 5 sec. 5 sec. Search Memory channel · About priority beep function When receiving a signal on the priority frequency, you can be alerted with beeps and a blink "S." This function can be activated when setting the priority watch function ON.

SCAN WATCH DURING SEARCH During search operation, priority watch checks for signals on each memory channel in sequence. · The memory skip function and/or category/group scan is useful to speed up the scan. 5 sec. Search Mch 001 SKIP Mch 002 Mch 003 Mch 1600 6 SEARCH AND SCAN OPERATIONS D Memory channel watch q Select the watching memory channel. Push [SCAN] to start a scan, then push [HOLD V] to hold the scan. Rotate [DIAL] to select the channel. · Push and hold [v] or [w] for 1 sec. to change the category, or push [v] or [w] to change the group. t Push [CLR SQL] to return to VFO mode and start the watch. · "PRIO" indicator appears.

· The receiver checks the priority channel every 5 sec. @@40), or push [CLR SQL] to resume manually. · Memory channel watch w Select VFO mode and set the operating frequency, etc. Push and hold [HOLD V] for 1 sec. to select VFO mode.

Set the operating frequency and receiving mode (pgs. 1922). e Enter "PRIORITY" in SEARCH menu. MENU SEARCH PRIORITY (Push [MENU]), (Push [r]/[s]), then push [ENT MW].) · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec.

Monitors VFO frequency for 5 sec. Pauses on a priority channel when a signal is received. · Memory channel watch with priority beep r Push [r]/[s] (or rotate [DIAL]) to select "ON." · Select "BELL" if the priority beep function is desired. Emits beep and blinks "S" indicator when a signal is received on a priority channel. y Push [CLR SQL] to cancel the priority watch. 38 SEARCH AND SCAN OPERATIONS D Memory channel watch or scan watch during search q Select the watching memory channel or scan. For memory channel watch during search: Push [SCAN] to start a scan, then push [HOLD V] to hold the scan. Rotate [DIAL] to select the channel. · Push and hold [v] or [w] for 1 sec.

to change the category, or push [v] or [w] to change the group. · Priority watch during search 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 39 For scan watch during search: Select the desired scan (pgs. 4143). · Push and hold [v] or [w] for 1 sec. to change the category, or push [v] or [w] to change the group. Searches frequencies for 5 sec. Pauses on a priority channel when a signal is received. w Enter "PRIORITY" in SEARCH menu. MENU SEARCH PRIORITY (Push [MENU]), (Push [r]/[s]), then push [ENT MW].) · SEARCH menu can also be entered by pushing and holding [SEARCH] for 1 sec.



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· Priority watch with priority beep during search e Push [r]/[s] (or rotate [DIAL]) to select "ON." · Select "BELL" if the priority beep function is desired. Emits beep and blinks "S" indicator when a signal is received on a priority channel without pausing on the channel. r Push [ENT MW] (or [v]) to return to SEARCH menu. t Push [r]/[s] (or rotate [DIAL]) to select the desired search, then start the search.

· "PRIO" indicator appears. · The receiver checks the priority channel(s) every 5 sec. @@@@· OFF : The stop beep is turned OFF. @@· 0 SEC : Search resumes when a received signal disappears. · 15 SEC : Search pauses 15 sec. after a received signal disappears. @@@@· 220 SEC : Search pauses for 220 sec. on a received signal in 2 sec. steps. @@Rotate [DIAL] to resume manually. @@@@· Rotate [DIAL] to select the channel. @@See pages 52, 53 for details. @@@@· q Enter "ALL SCAN" in SCAN menu. @@· Scan pauses when a signal is received. @@· q Enter "CATEGORY SCAN" in SCAN menu.

@@@@· q Select the category that includes the desired group to be scanned. Push [SCAN] to start a scan, then push [HOLD V] to hold the scan. Push and hold [v] or [w] for 1 sec. to select the category. w Enter "GROUP SCAN" in SCAN menu. @@@@· for the announcement. @@@· q Select the desired weather channel. w Enter "WEATHER ALERT" in SCAN menu. @@@· "WX" and the weather channel number appear. w Push [HOLD V] to stop scanning.

e Rotate [DIAL] to select the desired weather channel. r Push and hold [HOLD V] for 1 sec. to return to VFO mode. [DIAL] e Push [r]/[s] (or rotate [DIAL]) to select "ON" or "OFF." MENU DIAL NO.

MENU CLR SQL MW ENT HOLD V 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW HOLD V SCAN SEARCH . 7 ATT r Push [ENT MW] (or [v]) to return to SCAN menu, and push [CLR SQL] to return to the weather channel indication. 44 SEARCH AND SCAN OPERATIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 45 Skip setting for scanning t Set the desired stand-by condition. · Select VFO or memory channel. · Search, scan or priority watch operation can also be selected.

Memory category/group/name can be set to be skipped during scan operation. In addition, memory channels can be set to be skipped during search or scan operation. This is useful to speed up the search or scan rate. q Enter "SKIP" in SCAN menu. MENU SCAN SKIP (Push [MENU]), (Push [r]/[s], then push [ENT MW].) · SCAN menu can also be entered by pushing and holding [SCAN] for 1 sec. y When the alert is detected, a beep sounds and the following indication will be displayed. u Turn the weather alert function OFF in SCAN menu. NOTE: While receiving a signal (on a frequency other than the weather alert ON frequency), the receiving signal or audio will be interrupted momentarily every 5 sec. (approx.

) in the case that the alert function is turned ON. This symptom is caused by the WX alert function. To cancel these symptoms, set the weather alert item OFF in SCAN menu. MENU DIAL NO. MENU CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW . 7 ATT 6 SEARCH AND SCAN OPERATIONS w Push [v]/[w] once or twice to to select "CATEGORY," "GROUP" or "NAME." CONVENIENT! (Group skip setting) The group skip setting can be set with the following operation during a scan or scan holding state. q Select the desired memory group to be skipped. Push [SCAN] to start a scan, then push [HOLD V] to hold the scan. Push [v] or [w] to select the desired group.

· Push and hold [v] or [w] for 1 sec. to change the category. e Push [r]/[s] (or rotate [DIAL]) to select the category (group/name) to be skipped. r Push [SKIP] to set the skip state. · Push [SKIP] again to cancel the skip state.

w Push and hold [SKIP] for 1 sec., and rotate [DIAL] to select the skip setting for the selected group from "ON (skip)" and "OFF," then push [ENT MW]. CONVENIENT! (Channel skip setting) The channel skip setting can be set with the following operation during scan holding state. q Select the desired memory channel to be skipped. Push [SCAN] to start a scan, then push [HOLD V] to hold the scan.

Rotate [DIAL] to select the desired channel. · Push and hold [v] or [w] for 1 sec. to change the category, or push [v] or [w] to change the group. t Push [ENT MW] (or [v]) several times to return to SCAN menu, and push [CLR SQL] to return to frequency indication. w Push [SKIP] several times to select the skip setting for the selected channel from "SKIP," "PSKIP" and "OFF (no indication)." 46 SEARCH AND SCAN OPERATIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 47 Priority scan During scan operation, priority scan checks for signals on the (preprogrammed) priority channels* every 5 sec. Only this function is activate when the scan pauses other than priority channels for 5 sec. (* See p. 55 for priority channel programming details.) q Push [SCAN] to start the link scan.

· Any other scans are also available (see pages 41 to 43). · Scan pauses when a signal is received. · Rotate [DIAL] to change the scanning direction. r Push [ENT MW] (or [v]) to return to SCAN menu, and push [CLR SQL] to exit the menu screen operation and start the watch. · "PRIO" indicator appears. · The receiver checks the priority channel(s) after the scan pauses for 5 sec. · The watch resumes according to the selected scan resume condition (p. 48), or push [CLR SQL] to resume manually. w Enter "PRIORITY" in SCAN menu. MENU SCAN PRIORITY (Push [MENU]), (Push [r]/[s], then push [ENT MW].)

) Pauses on a priority channel when a signal is received. CH-999 CH-400 CH-000 e Push [r]/[s] (or rotate [DIAL]) to select "ON." Scan operation CH-300 CH-001 MENU DIAL Priority channels CH-200 CH-010 CH-101 scan paused after 5 sec. CH-002 NO. MENU CLR SQL MW ENT HOLD V SCAN SEARCH 1 4 2 5 8 0 3 6 9 SKIP MW ENT ENT Push MW CH-100 CH-024 CH-003 .

7 ATT CH-006 CH-005 CH-004 t Turn the priority watch function OFF in SCAN menu. 6 SEARCH AND SCAN OPERATIONS Other SCAN menu items D Stop beep (STOP BEEP) Selects the stop beep setting for scan. · OFF : The stop beep is turned OFF. (default) · ON : The receiver emits a long beep when a scan pauses with signal is received. D Scan resume timer (RESUME) Selects the scan resume time from a pause after the received signal disappears.

· 0 SEC : Scan resumes when a received signal disappears. · 15 SEC : Scan pauses 15 sec. after a received signal disappears.



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