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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-E92D. You'll find the answers to all your questions on the ICOM IC-E92D 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-E92D
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VHF/UHF DIGITAL TRANSCEIVER
IC-92AD

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.

Icom Inc.



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Manual abstract:

" The IC-92AD VHF/UHF FM TRANSCEIVER is designed with Icom's superior technology and craftsmanship combining traditional analog technologies with the new digital D-STAR technologies for a balanced packaged. With proper care, this product should provide you with years of trouble-free operation. We want to take a couple of moments of your time to thank you for making your IC-92AD your radio of choice, and hope you agree with Icom's philosophy of

"technology first." FEATURES DV mode (Digital voice + Low-speed data communication) operation ready Text message and call sign exchange Transmitting position data with a thirdparty GPS receiver Waterproof construction (IPX7) GPS receiver connectable Optional HM-175GPS is required Simple band scope Dualwatch operation Optional PC remote control IMPORTANT READ ALL INSTRUCTIONS carefully and completely before using the transceiver. EXPLICIT DEFINITIONS DEFINITION Personal injury, fire hazard or electric R-WARNING! shock may occur. CAUTION NOTE i Equipment damage may occur. Recommended for optimum use. No risk of personal injury, fire or electric shock. WORD SAVE THIS INSTRUCTION MANUAL-- This instruction manual contains important operating instructions for the IC-92AD. PRECAUTIONS RWARNING RF EXPOSURE! This device emits Radio Frequency (RF) energy.

Caution should be observed when operating this device. If you have any questions regarding RF exposure and safety standards please refer to the Federal Communications Commission Office of Engineering and Technology's report on Evaluating Compliance with FCC Guidelines for Human Radio Frequency Electromagnetic Fields (OET Bulletin 65) the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm (2 to 4 inches) away from the lips and the transceiver is vertical. DO NOT mit. operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

DO NOT push the PTT when not actually desiring to transBE CAREFUL! The transceiver will become hot when operating it continuously for long periods. RWARNING! NEVER hold the transceiver so that DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below 20°C (4°F) or above +60°C (+140°F). Place the unit in a secure place to avoid inadvertent use by children. RWARNING! NEVER operate the transceiver with DO NOT use of chemical agents such as benzine or alcohol when cleaning, as they can damage the transceiver's surfaces. For U.

S.A. only an earphone, headphones or other audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use. CAUTION!: Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations. driving a vehicle. Safe driving requires your full attention-- anything less may result in an accident. RWARNING! NEVER operate the transceiver while NEVER connect the transceiver to a power source of more than 16 V DC.

This will ruin the transceiver. NEVER connect the transceiver to a power source using reverse polarity. This will ruin the transceiver. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 ii PRECAUTIONS D Important notes when using GPS receiver · Please do not use the HM-175GPS close the TX antenna. The transmit signal may cause GPS receiver malfunction. · The GPS signal cannot pass through the metal object. When using the HM-175GPS inside a vehicle, you may not receive GPS signal. We recommend to use it window side. Please avoid the areas shown in the following: 1. DO NOT use where it will block the driver's view.

2. DO NOT use where the air bags could deploy. 3. DO NOT use it when becoming the obstacle of driving. · The Global Positioning System (GPS) is built and operated by the U.

S. Department of Defence. The Department is responsible for accuracy and maintenance of the system. Any changes that the Department makes may affect the accuracy and function of the GPS system. · When GPS receiver is activated, please do not cover the HM-175GPS with any object.

· The GPS receiver may not work if used in the following locations: 1. Tunnels or high-rise buildings 2. Underground parking lot 3. Under a bridge or viaduct

4. In remote forested areas 5. Under bad weather condition (rainy or cloudy day) SUPPLIED ACCESSORIES The following accessories are supplied with the transceiver. q Hand strap I w Antenna I e Battery pack (BP-256)

..... I r Battery charger (BC-167A/E) I t Belt clip (with screws) I set q

w e r t iii NOTICES D Using the optional HM-175GPS Noise signals from the HM-175GPS may interfere with the IC-92AD's AM radio or HF band reception.



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In this case, set the HM-175GPS's microphone cable as distant to the antenna as far as possible, or turn off the HM175GPS. D Data output from HM-175GPS The optional HM-175GPS outputs GPS data (position data, etc.) to IC-92AD at intervals while receiving only.

Therefore, the transceiver is not updated GPS data while transmitting. The transceiver transmits GPS data that was received prior to the last IC-92AD DV mode transmit. D About OPC-1797 · NEVER connect the optional OPC-1797 CONNECTION CABLE with non-Icom article specified. · When connecting a monaural plug to 2.5 (d) mm, it acts as short and becomes a cause of failure. · Turn power OFF when connecting or disconnecting the OPC-1797. 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. APRS® is a registered trademark of Mr.

Bob Bruninga in the U.S.A. and other countries. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 iv TABLE OF CONTENTS FOREWORD

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.....140 145 vii ACCESSORY ATTACHMENT Antenna Jack cover 1 1 Hand strap Insert the supplied antenna
into the antenna connector and screw down the antenna as shown at left.*



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NEVER carry the transceiver by holding the antenna. KEEP the jack cover attached when jack is not in use to protect the connector from dust and moisture. Slide the hand strap through the loop on the top of the belt clip as illustrated at left to facilitate carrying the transceiver. Handstrap For your information Third-party antennas may increase transceiver performance. An optional AD-92SMA ANTENNA CONNECTOR ADAPTER is available to connect an antenna with a BNC connector.

Battery pack Attach the Li-Ion battery pack (BP-256) or battery case (BP-257) as illustrated below. · Charge the Li-Ion battery pack before use. (pgs. 10, 11) Battery pack/Battery case CAUTION!: NEVER attach or detach the battery pack when wet. Be careful when releasing the latch. Because the latch is tightly locked, don't use a finger nail to open it-- you may injure yourself. Instead, use something relatively flat, like the edge of a coin or the tip of a screwdriver, to carefully release the latch. Belt clip Supplied screws* *NOTE: USE the supplied screws only. Using screws longer than specified could damage the transceiver. q w Latch 1 2 PANEL DESCRIPTION Front, top and side panels w TX/RX INDICATOR [TX/RX] (p.

24) Lights green while receiving a signal or when the squelch is open; lights red while transmitting. e PTT SWITCH [PTT] (p. 24) Push and hold to transmit, release to receive. r SQUELCH KEY [SQL] Push and hold to open the squelch temporarily and monitor the operating frequency. (p. 22) While pushing and holding this key, rotate [DIAL] to adjust the squelch level. (p. 21) t MAIN/DUAL KEY [MAIN/DUAL] Push to toggle the main band between A and B bands. (p. 26) Push and hold for 1 sec.

to toggle the dualwatch function ON and OFF. (p. 25) y POWER KEY [PWR] Push and hold for 1 sec. to turn the transceiver power ON and OFF. (p. 20) u BAND KEY [BAND] During VFO mode operation, push to select an operating frequency band. (pgs. 16, 17) During memory bank mode, push to select a memory bank. (p. 76) Enters or sends the DTMF code 'D'.

(pgs. 117, 118) !6 q w e r t y u i MAIN DUAL !5 !4 Function display Internal microphone !3 MENU PWR D BAND CLR SCOPE 1 4 2 SCAN 3 A/a LOW REC MODE VFO A MHz B DUP 5 SKIP 6 M.NAME CS DTMF.M 0 CQ # CD T.SCAN MR S.MW 7DSQ TONE 8 TS 9 . CALLC RX CS Speaker !2 !1 !0 o q ANTENNA CONNECTOR (p. 1) Connects the supplied antenna. · An optional AD-92SMA adapter (p. 137) is available for connecting an antenna with a BNC connector.

2 PANEL DESCRIPTION 2 i KEYPAD (pgs. 4, 5) o CALL/RXCS KEY [CALL]/[RXCS](CALL) Push to select the call channel/TV channel/weather channel. (pgs. 16, 28, 128) During DV mode operation, push and hold for 1 sec. to set the received call signs (station and repeaters) for operation. (p. 47) Enters or sends the DTMF code 'C'. (pgs. 117, 118) !0 MEMORY/SELECT MEMORY WRITE KEY [MR]/[S.MW](MR) Push to select memory mode.

(p. 15) During memory mode operation, push to toggle between memory and memory bank mode. (p. 76) Push and hold for 1 sec. to enter select memory write mode.

(p. 74) Enters or sends the DTMF code 'B'. (pgs. 117, 118) !1 VFO/MHz KEY [VFO]/[MHz](VFO) Push to toggle select VFO mode. (p. 15) During VFO mode operation, push and hold for 1 sec. to select and toggle 1 MHz and 10 MHz tuning steps. (p. 18) Enters or sends the DTMF code 'A'. (pgs. 117, 118) !2 MENU/LOCK KEY [MENU/LOCK] Push to toggle menu screen indication ON and OFF. (p. 93) Push and hold for 1 sec. to toggle the lock function ON and OFF. (p.

25) !3 EXTERNAL DC IN JACK [DC IN] Connects the supplied wall charger, BC-167A/D, to charge the attached battery pack. (p. 10) Connect an external DC power supply through the optional CP-12L, CP-19R or OPC-254L for external DC operation. (p. 13) !4 VOLUME CONTROL [VOL] Rotate to adjust the audio output level. (p. 20) !5 CONTROL DIAL [DIAL] Rotate to tune the operating frequency. (p. 18) During memory mode, rotate to select the memory channel. (pgs.

15, 72) While pushing and holding [BAND], selects the operating band in VFO mode. (p. 18) While scanning, changes the scanning direction. (p. 83) While pushing and holding [SQL], sets the squelch level.

(p. 21) While pushing and holding [BAND], selects the programmed bank in memory mode. (p. 75) The assigned function for [VOL] and []/[] can be exchanged in initial set mode. (p.

99) !6 EXTERNAL SPEAKER/MICROPHONE JACK [DATA/SP/MIC] Connect a communication cable, optional speaker microphone or headset, if desired. See page 137 for a list of available options. 2 3 2 PANEL DESCRIPTION D KEYPAD KEY CLR SCOPE Pushed momentarily Pushed and held for 1 sec. 1 · Inputs digit '1' for frequency input, memory channel selection, · Displays the simple band scope for a single sweep. (p. 23) · Displays the simple band scope for continuation sweep. (p. 23) etc. · While pushing [PTT], this key sends the DTMF code "1." · Inputs digit '2' for frequency input, memory channel selection, · Starts a scan.

(p. 83) etc. · While pushing [PTT], this key sends the DTMF code "2." · Inputs digit '3' for frequency input, memory channel selection, · Toggles the transmit output power between high, mid, low and etc. S-low (p. 24). · While pushing [PTT], this key sends the DTMF code "3." · While pushing and holding this key, with [DIAL] rotation selects the output power. · Inputs digit '4' for frequency input, memory channel selection, · Activates the following duplex functions in order. etc.

- Minus duplex operation-- "DUP" appears. · While pushing [PTT], this key sends the DTMF code "4." - Plus duplex operation-- "+DUP" appears. - Simplex operation-- no duplex indicator appears. · While pushing and holding this key, [DIAL] rotation selects the duplex function.

· Inputs digit '5' for frequency input, memory channel selection, · Turn the frequency skip function ON and OFF in VFO mode, or etc. set the memory channel as the following skip channel in mem. While pushing [PTT], this key sends the DTMF code "5." ory mode in order (p. 87). - Skip channel-- "SKIP" appears.

- Frequency skip channel-- "PSKIP" appears. - Non-skip channel-- no skip indicator appears. · Inputs digit '6' for frequency input, memory channel selection, · Turn the memory or bank name indication ON and OFF. (p. 78) · Memory name (normal), memory name (large), bank name and etc. OFF are selectable. ·

While pushing [PTT], this key sends the DTMF code "6." 2 SCAN 3 A/a LOW 4 DUP 5 SKIP 6 M.NAME 4 PANEL DESCRIPTION 2 KEY Pushed momentarily Pushed and held for 1 sec. DSQ TONE 7 8 TS CS DTMF.

M 9 0 CQ # CD T.SCAN . REC MODE · Inputs digit '7' for frequency input, memory channel selection, · During FM/FM-N mode operation, selects repeater tone, tone etc.



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sqelch, tone squelch reverse, DTCS squelch, DTCS squelch re · While pushing [PTT], this key sends the DTMF code "7." *verse and no tone operation in sequence.* (p. 124) · During DV mode operation, selects digital call sign squelch, digital code squelch and no squelch operation in sequence. (p. 124) · Inputs digit '8' for frequency input, memory channel selection, · Selects tuning step selection. (p. 18) etc. · While pushing [PTT], this key sends the DTMF code "8." · Inputs digit '9' for frequency input, memory channel selection, · Select DTMF memory mode. (p. 117) etc. (Push and hold for 2 sec. while operating DV mode.) · While pushing [PTT], this key sends the DTMF code "9." · During DV mode operation, CALL SIGN setting mode is displayed. (pgs. 38, 48) · Inputs digit '0' for frequency input, memory channel selection, · During DV mode operation, set "CQCQCQ" for station's call sign etc. for operation. · While pushing [PTT], this key sends the DTMF code "0." · Inputs MHz digit for frequency input. · During FM/FM-N mode operation, starts tone scan function. · While pushing [PTT], this key sends the DTMF code "F (#)." (p. 126) · During DV mode operation, RX CALL SIGN is displayed. (p. 46) · During DV mode operation, selects the record track for voice · Selects the operating mode. (p. 21) memory. (p. 66) · While pushing [PTT], this key sends the DTMF code "E (.)" 2 5 2 PANEL DESCRIPTION Function display · Single band indication q !7 !6 !5 !4 !3 w e r ty EMR -DUP DSQL DV PRIO B MemoName PSKIP LOW ATT 439 43 706 μ !1 i e 25 u i o !0 q BATTERY INDICATOR (pgs. 10, 12) " (battery indicators) appear when the battery pack is attached. " " appears when the battery cells/pack must be changed/charged. The indicators show " , " " " and " " in sequence while charging the attached battery pack. w DUPLEX INDICATOR (p. 29) "+DUP" appears when plus duplex, "DUP" appears when minus duplex is selected. e PRIORITY WATCH INDICATOR (p. 90) Appears when priority watch is in use. 000 !2 · Dualwatch indication !6 !7 q o PS 88 100 y !6 !1 25 PRIO μ 000 t !0 w r !4 !8 eo PS i !7 !3 -DUP DTCS 439 43 706 !2 !1 75 PRIO EM μ 000 u !0 !4 !8 r TONE INDICATOR · While operating in FM/FM-N mode; "TONE" appears while the subaudible tone encoder is in use. (pgs. 29, 124) "TSQL" appears while the tone squelch function is in use. (p. 124) "TSQL R" appears while the reverse tone squelch function is in use. (p. 124) "DTCS" appears while the DTCS squelch function is in use. (p. 124) "DTCS R" appears while the reverse DTCS squelch function is in use. (p. 124) "S" appears with the "TSQL" or "DTCS" indicator while the pocket beep function (with CTCSS or DTCS) is in use. (p. 125) 6 PANEL DESCRIPTION · While operating in DV mode; "DSQL" appears while the digital call sign squelch function is in use. (p. 124) "CSQL" appears while the digital code squelch function is in use. (p. 124) "S" appears with the "DSQL" or "CSQL" indicator while the pocket beep function (with digital call sign or digital code squelch) is in use. (p. 125) t KEY LOCK INDICATOR (pgs. 25, 127) Appears when the key lock function is activated. y AUTO POWER OFF INDICATOR (p. 96) Appears when the auto power OFF function is in use. u EMR/BK MODE INDICATOR (pgs. 51, 56, 107) Appears "EMR" when the EMR mode operation is selected. (p. 56) Appears "BK" when the break-in communication is selected. (pgs. 51, 107) i FREQUENCY READOUT Displays a variety of information, such as operating frequency, set mode contents, memory names. · The decimal point blinks during scan. 2 "C" appears when the call channel is selected. (pgs. 16, 73) "WX" appears when the weather channel is selected. (pgs. 16, 128) "TV" appears when the TV channel is selected. (pgs. 16, 28) !1 S/R/METER Shows the relative signal strength while receiving signals. Shows the output power level while transmitting. (p. 24) !2 ATTENUATOR INDICATOR (p. 22) Appears when the RF attenuator is in use. !3 POWER INDICATOR (p. 24) "LOW" appears when low power is selected. "SLO" appears when S-low power is selected. "MID" appears when middle power is selected. No indicator appears when high power is selected. !4 MEMORY INDICATOR (p. 72) Appears when memory mode is selected. !5 NAME INDICATOR (p. 78) During memory mode operation, the programmed memory or memory bank name is displayed. !6 MAIN BAND INDICATOR (p. 14) Shows which operating band, "A" or "B," is selected for the main band. !7 OPERATING MODE INDICATOR (p. 21) Shows the selected operating mode. · DV, FM, FM-N, WFM and AM are available, depending on operating band. 2 o SKIP INDICATOR (pgs. 87, 88) "SKIP" appears when the selected memory channel is set as a skip channel. "PSKIP" appears when the displayed frequency is set as a skip frequency. !0 MEMORY CHANNEL NUMBER INDICATOR Shows the selected memory channel number. (pgs. 72, 73) 7 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 transceiver for which it is specified. Never use a battery with any other equipment, or for any purpose that is not specified in this instruction manual. · R DANGER! If fluid from inside the battery gets in your eyes, blindness can result. Rinse your eyes with clean water, without rubbing them, and see a doctor immediately. · WARNING! Immediately stop using the battery if it emits an abnormal odor, heats up, or is discolored or deformed.



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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. **8 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, 20°C to +60°C (4°F to +140°F). Using the battery out of its specified temperature range will reduce the battery's performance and battery life.

· **CAUTION!** Keep the battery back below temperature range conditions while non use for a long time. 20°C (4°F) to +45°C (+113°F) (within a month). - 20°C (4°F) to +35°C (+95°F) (within three months). 20°C (4°F) to +25°C (+77°F) (More than a year). · **CAUTION!** Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above +45°C; +113°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 temperature between 20°C to +25°C (4°F to +77°F). **NOTE:** When the desktop charger's charging indicator blinks orange for 10 sec. since the battery pack (with the transceiver) to the charger, charge the BP-256 only (without the transceiver), or charge the battery pack regularly (using with the battery charger, cigarette lighter cable, etc.).

D Charging caution · R DANGER! NEVER charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun heated car, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging. · WARNING! DO NOT charge or leave the battery in the battery charger beyond the specified time for charging. If the battery is not completely charged by the specified time, stop charging and remove the battery from the battery charger. Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture. · WARNING! NEVER insert the transceiver (battery attached to the transceiver) into the charger if it is wet or soiled. This could corrode the battery charger terminals or damage the charger. The charger is not waterproof. · CAUTION! DO NOT charge the battery outside of the specified temperature range: 0°C to +40°C (+32°F to +104°F). Icom recommends charging the battery at +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 9 3

BATTERY CHARGING Regular charging Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. · **BC-167A/D D Battery indicators** The indicators show " , " " and " " in sequence while charging (the transceiver's power OFF), and indicators disappear when completely charged. Transceiver to AC outlet · **CP-12L (Optional)** to [DC IN] to cigarette lighter socket (12 V DC) · **CP-19R (Optional)** **D Charging note** · Be sure to turn the transceiver power OFF. Otherwise the battery pack will not be charged completely or takes longer to charge time periods. · External DC power operation becomes possible when using an optional CP-12L, CP-19R or OPC-254L. The attached battery pack is also charged simultaneously, except during transmit. (see p. 11 for more details) · The external DC power supply voltage must be between 10 16 V to charge the battery pack and for operation when using an optional OPC-254L.

BP-256 Turn power OFF while charging the battery pack. · Charging time period: Approx. 6 hours · OPC-254L (Optional) to 12 V DC (power supply) Black: _ White: + 10 BATTERY CHARGING 3 Rapid charging The optional BC-177 provides rapid charging of the battery pack. · Charging period: approx. 2. 5 hours (with BP-256) Transceiver (with battery pack) Turn power OFF. to AC outlet CP-12L OPC-254L to [DC 13.5V] AC adapter (supplied with BC-177) to [AC ADAPTER] Charging indicator Charging : Orange Finished : Green Charging terminal Battery pack 3 **D Charging note** · Be sure to turn the transceiver power OFF. Detach the battery pack from the transceiver then charge the battery pack by itself, or charge the battery with regular charging when the transceiver power cannot be turned OFF. Otherwise the battery pack will not be charged (charging indicator on the BC-177 blinks orange about 10 sec. after the battery pack is installed in BC-177). · The desktop charger, BC-177, can only charge BP-256 battery packs. Other types of rechargeable battery, Ni-Cd or Ni-MH cannot be charged. · If the charging indicator blinks orange, there may be a problem with the battery pack (or charger). In this case, the battery pack is charged alone (without the transceiver) or regular charge is carried out. Contact your dealer when the battery pack isn't charged. · The optional CP-12L and OPC-254L can be used instead of the supplied AC adapter. Connect one of these to the [DC 13.5V] jack in this case. BC-177 (optional) Desktop charger 11 3 **BATTERY CHARGING Optional battery case** Install 2 × LR6 (AA) size alkaline batteries into the optional BP-257 BATTERY CASE.

Battery information D Battery life The transceiver operates with the BP-256 Li-ion as follows. However, when operating in DV mode, operating time may be shortened by one-half hour. · VHF band : Approx. 6 hours · UHF band : Approx. 5.5 hours (Tx: Rx: Stand-by=1: 1: 8) Even when the transceiver power is OFF, a small current still flows in the radio.



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Remove the battery pack or case from the transceiver when not using it for a long time. Otherwise, the battery pack or installed batteries will become exhausted. The battery protection function sets to S-Low (0.5 W) automatically while using 0°C (+32°F).
Transmit power selection is also disable. · Be sure to observe the correct polarity. A built-in step-up converter in the BP-257 increases the voltage to 5 V DC. Approx. 100 mW of output power is possible with the BP-257 operation.

Also, no transmit output power selection is available. Keep battery contacts clean. It's a good idea to clean battery terminals once a week. D Battery indicator The battery indicator, " ", appears only when the BP-256 Li-ion is attached to the transceiver. The battery indicator does not appear when turning power ON after charging is completed without disconnecting the battery charger or external DC power.

Indication Battery condition The battery has ample capacity. The battery is nearing exhaustion. Charging is necessary. D Battery information The batteries may seem to have low capacity when used in low temperatures such as 10°C (+14°F) or below. Keep the battery case or pack warm in this case. D Battery replacement When the batteries become exhausted, the function display may blink or have a lower contrast. In these cases, replace all batteries with new, same brand, alkaline batteries. 12 BATTERY CHARGING 3 External DC power operation An optional cigarette lighter cable (CP-12L or CP-19R; for 12 V cigarette lighter socket) or external DC power cable (OPC-254L) can be used for external power operation. · CP-12L (Optional) 3 Transceiver D Operating note · Power supply voltage must be between 10.016.

0 V DC. NEVER CONNECT OVER 16 V DC directly into the [DC IN] jack of the transceiver. · BE SURE to use CP-12L, CP-19R or OPC-254L when connecting a regulated 12 V DC power supply. Use an external DC-DC converter to connect the transceiver through optional CP-12L, CP-19R or OPC-254L to a 24 V DC power source. · The voltage of the external power supply must be within 1016 V DC when using either CP-12L, CP-19R or OPC254L, otherwise, use the battery pack. · Disconnect the power cables from the transceiver when not using it. Otherwise, the vehicle battery will become exhausted. · The power save function is deactivated automatically during external DC power operation. to [DC IN] to cigarette lighter socket (12 V DC) · CP-19R (Optional) · OPC-254L (Optional) to 12 V DC (power supply) Black: _ White: + NOTE: Up to 5 W (approx.) of maximum output power is available when using external DC power.

However, when the supplied voltage exceeds 14 V, the built-in protection circuit activates to reduce the transmit output power to 2.5 W (approx.). 13 4 FREQUENCY AND CHANNEL SETTING Main band selection The IC-92AD has two independent operating bands; A band (VFO A) and B band (VFO B). A band (VFO A) can operate 0.

495 MHz to 999.990 MHz*, and B band (VFO B) can operate 118 MHz to 174 MHz and 350 MHz to 470 MHz. *Some frequency ranges are blocked for the U.S.A.

D How to change the main band Push [MAIN/DUAL] to toggle between A and B band. Push and hold [MAIN/DUAL] for 1 sec. to turn the dualwatch operation ON and OFF. · While in dualwatch operation, the display indicates A band in the upper half and B band in the lower half. NOTE:

When in dualwatch mode, transmission is available on the MAIN band only. Single band operation · Selecting A band +DUP DTCS FM PRIO WX EMR During dualwatch operation, push [MAIN/DUAL] to toggle between A band or B band as the main operating band. Dualwatch operation · Selecting upper side as main band +DUP DTCS W PS PRIO A MemoName LOW ATT 146 14 010 μ 146 14 010 FM μ 000 PSKIP 000 Push PRIO EM 440 44 000 μ 000 FM +DUP DTCS W PS Push · Selecting B band +DUP DTCS FM PRIO WX EMR Push for 1 sec. · Selecting lower side as main band B MemoName LOW ATT 440 44 000 μ 146 14 010 FM +DUP DTCS μ W PS PRIO 000 PSKIP 000 PRIO EM 440 44 000 μ 000 FM +DUP DTCS W PS 14 FREQUENCY AND CHANNEL SETTING 4 Mode selection D VFO mode VFO mode is used to set the desired frequency. Push [VFO] to select VFO mode.

D Memory mode Memory mode is used for operation on memory channels which store programmed frequencies. q Push [MR] to select memory mode. · "μ · VFO mode indication +DUP DTCS FM PRIO WX EMR 4 " appears when memory mode is selected. · Memory mode indication +DUP DTCS FM PRIO WX EMR A MemoName VFO A LOW ATT 146 14 010 μ PSKIP A 000 MR B MHz MemoName LOW ATT 433 43 000 μ PSKIP 001 S.MW Appear What is VFO?

VFO is an abbreviation of Variable Frequency Oscillator. Frequencies for both transmitting and receiving are generated and controlled by the VFO. w Rotate [DIAL] to select the desired memory channel. · Only programmed memory channels can be selected. · Enter the memory channel directly to select the desired memory channel. (p.

72) · See p. 74 for memory programming details. Set the attenuator function ON (p. 22) if the received signal is blocked by other radio station when using a third party high-gain antenna. 15 4 FREQUENCY AND CHANNEL SETTING D Call/TV*/Weather channels Call channels are used for quick recall of most-often used frequencies.

Appears only when TV channels are programmed via the optional RS-92. Also available for A band operation only. Available for the U.S.A. version only. q Push [CALL] several times to select call channels/TV channels (A band only)/Weather channels. · Call/TV/Weather channels can be selected in sequence. Operating band selection The transceiver can receive the AM broadcast, HF bands, 50 MHz, FM broadcast, VHF air, 144 MHz, 300 MHz, 400 MHz or 800 MHz bands. (Some bands are not selectable for B band operation. See next page for details.) In VFO mode, push [BAND] several times to select the desired frequency band. · If VFO mode is not selected, such as a memory channel/call channel/TV channel/Weather channel, push [VFO] to select VFO mode first, then push [BAND] to select the desired band. w Rotate [DIAL] to select the desired channel. [DIAL] · Call channel indication +DUP DTCS FM PRIO WX EMR A MemoName P LOW ATT 145 14 000 μ While pushing and holding [BAND], rotating [DIAL] also selects the frequency band.

[DIAL] SKIP C0 · TV channel indication CALL C +DUP DTCS FM PRIO WX EMR +DUP DTCS WFM PRIO WX EMR A RX CS A MemoName P LOW ATT 10 ch 25 μ MemoName D 145 14 000 μ PSKIP SKIP TV BAND LOW ATT 000 · Weather channel indication +DUP DTCS PRIO WX EMR A MemoName P LOW ATT 1 ch μ 25 WX SKIP Available frequency bands are different depending on version.



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See the specification for details. (pgs. 135, 136) *Some frequency ranges are blocked for the U.S.A. version by regulation. 16 FREQUENCY AND CHANNEL SETTING · Available frequency bands · A band +DUP DTCS AM PRIO WX EMR +DUP DTCS AM PRIO WX EMR +DUP DTCS FM PRIO WX EMR +DUP DTCS WFM PRIO WX EMR 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 17 A MemoName 001 00 620 A PSKIP MemoName HF band 005 00 000 A PSKIP MemoName 50 MHz band 051 000 A PSKIP MemoName 076 000 PSKIP AM broadcast band FM broadcast band +DUP DTCS FM PRIO WX EMR A MemoName 800 MHz band 850 85 000 +DUP DTCS FM PRIO WX EMR A PSKIP MemoName 146 14 010 144 MHz band +DUP DTCS AM PRIO WX EMR A PSKIP MemoName VHF air band 118 11 000 PSKIP +DUP DTCS FM PRIO WX EMR A MemoName 400 MHz band 440 44 000 +DUP DTCS AM PRIO WX EMR A PSKIP MemoName 300 MHz band 370 37 000 : Push D BAND D PSKIP : Rotating [DIAL] while pushing BAND Initial frequencies shown differ according to version. · B band +DUP DTCS AM PRIO WX EMR A B MemoName VHF air band 118 11 000 +DUP DTCS FM PRIO WX EMR A B PSKIP MemoName 144 MHz band 146 14 010 +DUP DTCS FM PRIO WX EMR A B PSKIP MemoName 300 MHz band 370 37 000 +DUP DTCS FM PRIO WX EMR A B PSKIP MemoName 400 MHz band 440 44 000 PSKIP 4 FREQUENCY AND CHANNEL SETTING Setting a tuning step The tuning step can be selected for each frequency band. The following tuning steps are available for the IC-92AD.

· 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 * Appears for below the 600 MHz bands only. Appears for the VHF air band only. Appears for the AM broadcast band only. Setting a frequency D Using the dial q Push [VFO] to select VFO mode, if necessary. w Select the desired frequency band with [BAND]. · Or, while pushing and holding [BAND], rotate [DIAL] 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 left-hand side of the page to set the tuning step. · Push and hold [MHz](VFO) for 1 sec. then rotate [DIAL] to change the frequency in 1 MHz steps, or push and hold for 1 sec. again then rotate [DIAL] to change the frequency in 10 MHz steps. (Each pushing and holding for 1 sec. toggles 1 MHz or 10 MHz tuning steps. Push [MHz](VFO) to cancel it.) [DIAL] +DUP DTCS FM PRIO WX EMR D Tuning step selection q Push [VFO] to select VFO mode, if necessary.

w Push [BAND] to select the desired frequency band. · Or, while pushing and holding [BAND], rotate [DIAL] to select the desired frequency band. e Push and hold [TS](8) for 1 sec. to enter tuning step set mode. r Rotate [DIAL] to select the desired tuning step.

t Push [TS](8) (or [VFO]) to return to VFO mode. [DIAL] +DUP DTCS FM PRIO WX EMR · While pushing and holding [TS](8), rotate [DIAL] is also available to select tuning step. A 146 14 01025 [DIAL] changes the frequency according to the selected tuning step. D BAND VFO A A MHz +DUP DTCS FM PRIO WX EMR 146 14 01025 PSKIP A 146 14 01025 μ 000 SET-TS:5.0kHz SET TS:5.

0kHz 5 kHz tuning step 8 TS After pushing and holding [MHz](VFO) for 1 sec., [DIAL] changes the frequency in 1 MHz/10 MHz steps. 18 FREQUENCY AND CHANNEL SETTING D Using the keypad 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. 4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 19 · Entering 433.580 MHz +DUP DTCS FM PRIO WX · Entering 80.200 MHz 8 TS +DUP DTCS FM PRIO WX · Changing 100 kHz and below. Editing 433.520 MHz to 433.140 MHz # CD T.

SCAN 4 A DUP 25 430 000 A 25 830 000 q Push [VFO] to select VFO mode, if necessary. w Enter the desired frequency via the keypad. 3 A/a LOW +DUP DTCS FM PRIO WX A 430 43 000 25 0 CQ +DUP DTCS FM PRIO WX A 800 80 000 25 . +DUP DTCS FM PRIO WX A 25 433 43 140 3 A/a LOW +DUP DTCS FM PRIO WX A 25 433 43 580 # CD T.SCAN . +DUP DTCS FM PRIO WX A 25 080 200 CLR SCOPE 1 +DUP DTCS FM PRIO WX A 25 433 40 43 140 5 SKIP +DUP DTCS FM PRIO WX A 25 433 80 43 580 2 SCAN +DUP DTCS FM PRIO WX A 25 080 200 00 4 +DUP DTCS FM PRIO WX A DUP 433 140 43 14 25 8 TS A CLR SCOPE +DUP DTCS FM PRIO WX A 433 580 43 58 25 0 CQ +DUP DTCS FM PRIO WX A 080 20 25 200 080 20025 0 CQ +DUP DTCS FM PRIO WX A 433 43 14025 6 M.NAME 1 2 SCAN 3 A/a LOW REC MODE VFO · Editing to 684 kHz 0 +DUP DTCS FM PRIO WX MHz B A 4 7 DUP 5 SKIP 6 M.NAME CS DTMF.M 0 CQ # CD T.SCAN MR CQ 433 580 43 58 25 0 CQ +DUP DTCS FM PRIO WX A 0 CQ # CD T. SCAN . 8 TS 4 DUP S.MW DSQ TONE 8 TS 9 . CALLC RX CS 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.

5 BASIC OPERATION Setting audio volume Rotate [VOL] to adjust the audio level. · If squelch is closed, push and hold [SQL] while setting the audio level. · The display shows the volume level while setting. +DUP DTCS FM PRIO WX EMR Receiving Make sure a charged battery pack (BP-256) or brand new alkaline batteries (BP-257) are installed (pgs. 1, 12).

q Push and hold [PWR] for 1 sec. to turn power ON. w Rotate [VOL] to set the desired audio level. · The frequency display shows the volume level while setting. See the section at right for details. e Set the receiving frequency. (p. 18) r Set the squelch level. (p. 21) · While pushing and holding [SQL], rotate [DIAL].

· The first click of [DIAL] indicates the current 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. · Push and hold [SQL] to open the squelch manually. [SQL] [VOL] A MemoName LOW ATT 145 14 00025 PSKIP μ 000 PSKIP μ 000 VOL t When a signal is received: · Squelch opens and audio is output. · The S/Rf-meter shows the relative signal strength level. r Push for setting the squelch (Push to monitor) e Set frequency r Set squelch level w Set audio level Volume level indicator PSKIP μ 000 VOL Minimum setting (no audio) PSKIP μ 000 VOL Maximum setting q [PWR] e Select band 20 BASIC OPERATION 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 21 Setting squelch level The squelch circuit mutes the received audio signal depending on the signal strength.



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The receiver has 9 squelch levels, a continuously open setting and an automatic squelch setting. While pushing and holding [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).

· "AUTO" indicates automatic level adjustment by a noise pulse counting system. · "OPEN" indicates continuously open setting. [DIAL] +DUP DTCS FM PRIO WX EMR Operating mode selection Operating modes are determined by the modulation of the radio signals. The transceiver has total 5 operating modes (A band: FM, WFM and AM modes, B band FM, FM-N, AM and DV modes). The mode selection is stored independently for each band and memory channel.

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).

WFM mode cannot be selected above 810 MHz for U.S.A. version. Push and hold [MODE](REC) for 1 sec. several times to select the desired operating mode.

· While pushing and holding [MODE](REC), rotate [DIAL] is also available to select operating mode. A MemoName LOW ATT 145 14 00025 PSKIP μ 000 Display example FM [SQL] PSKIP A 145 14 00025 PSKIP μ 000 FM mode WFM SQUELCH:AUTO Automatic squelch PSKIP A 145 14 00025 PSKIP μ 000 REC MODE WFM mode AM SQUELCH:LEVEL9 Maximum level A 145 14 00025 PSKIP AM mode 5 BASIC OPERATION 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 [SQL] to monitor the operating frequency. · The 1st segment of the S-meter blinks.

Attenuator function The attenuator prevents distortion of a desired signal by very strong signals near the desired frequency or when very strong electric fields, such as from a broadcasting station, are present at your location. The attenuation is about 10 dB. q Enter "ATTENUATOR" in set mode. (p. 96) MENU screen SET MODE ATTENUATOR J) (Rotate [DIAL], then push [J(5).) (Push [MENU/ +DUP DTCS FM PRIO WX EMR A MemoName [SQL] LOW ATT 146 14 01025 PSKIP w Rotate [DIAL] to select "ON" or "OFF." e Push [J(5) (or [J(4)) to return to set mode, and push] to return to frequency indication. [MENU/ · "ATT" appears on the function display when "ON" is selected. [DIAL] +DUP DTCS FM PRIO WX EMR μ 000 The 1st segment blinks A MemoName MENU LOW ATT 146 14 01025 PSKIP μ 000 The [SQL] key can be set to 'sticky' operation in set mode. See page 97 for details.

5 SKIP Appears. [DIAL] [J(2)/ [J(8) [J(5) [J(6) 22 BASIC OPERATION 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 23 Band scope The band scope function allows you to visually check a specified frequency range around the center frequency. About the sweep steps: The specified tuning step in each frequency band (in VFO mode) or programmed tuning step (in memory mode) is used during sweep. Single watch mode display +DUP DTCS FM PRIO WX EMR D Continuous sweep q Set the desired frequency as band scope center frequency. · Push [MAIN/DUAL] to select "MAIN band" during dual watch. w Push and hold [SCOPE](1) for 3 sec. to start continuous sweep. · 2 short beeps sound after 1 short and 1 long beeps. · Signal conditions (strengths) appear starting from the left of the range. · Pushing [SQL] also cancels sweep.

e Push and hold [SCOPE](1) for 1 sec. to cancel sweep. r Push [VFO] to return to normal operation. A B 145 14 780 μ 25 PSKIP 000 +DUP DTCS FM PRIO WX EMR A B Band scope indication Sweep marker [SQL] 145 14 78025 μ PSKIP 000 D Single sweep 1CLR SCOPE q Set the desired frequency as band scope center frequency. · Push [MAIN/DUAL] to select "MAIN band" during dual watch. w Push and hold [SCOPE](1) for 1 sec. to start a single sweep. · 1 short and 1 long beeps sound. · Signal conditions (strengths) appear starting from the left of the range. e Rotate [DIAL] to set the highlighted cursor to the desired signal and set the frequency of the signal.

r Push [VFO] to return to normal operation. · The receive audio during sweeping can be muted in sounds set mode. See p. 115 for details. · We recommend setting the tuning step to less than 20 kHz when using band scope function. · Even if a strong signal is present, it may not be displayed on the band scope if the tuning step is set to wide (ex. 125 kHz, 200 kHz, etc) · The display frequency's audio sounds for single watch operation within 118174MHz and 350470MHz regardless "Scope AF Output" setting in the MENU screen. · If ghost waveform or audio appear, operate follow to avoid those. "tuning step changing," "selecting dualwatch," or "changing non sweep frequency if dualwatch operating". 5 BASIC OPERATION Transmitting CAUTION: Transmitting without an antenna will damage the transceiver.

NOTE: To prevent interference, listen on the channel before transmitting by pushing and holding [SQL]. qSet the operating frequency. (pgs. 18, 19) · Transmission is available on the 144 MHz/440 MHz amateur bands only. · Select output power if desired.

See the section at right for details. Transmit power selection The transceiver has four output power levels to suit your operating requirements. S-Low output power during shortrange communications may reduce the possibility of interference to other stations and will reduce current consumption. Push and hold [LOW](3) for 1 sec. to toggle the transmit output power between High (5W*), Mid (2.

5 W*), Low (0.5 W*) and S-Low (0.1 W*). *approx. +DUP DTCS FM PRIO WX EMR A MemoName 146 14 01025 PSKIP Appears LOW ATT μ 000 w Push and hold [PTT] to transmit. · Tx/Rx indicator lights red. · S/RF meter shows the output power level. [SQL] SLO 3 A/a LOW S-Low power transmission LOW e Speak into the microphone using your normal voice level. r Release [PTT] to return to receive. Tx/Rx indicator Microphone Low power transmission ONLY S-Low power operation is available while using BP-257.

MID · DO NOT hold the transceiver too close to your mouth or speak too loudly. This may distort your speech. While pushing and holding [MODE](REC), rotate [DIAL] is also available to select transmit power. High power transmission LOW Mid. power transmission WARNING! NEVER continuously transmit for long periods of time. When the transceiver is used for continuous prolonged transmission at high power, the transceiver radiates heat to protect itself from overheating and transceiver's chassis will become hot.



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This may cause a burn. DO NOT operate the transceiver in a situation that will obstruct heat dissipation, especially if the transceiver is operated with an external power supply. Heat dissipation may be affected, and it may cause a burn, warp the casing or damage the transceiver. NOTE: Transmit power set 2.5 W (MID) automatically when the transceiver radiates heat. CONNECT the rated range voltage when using external power supply. 24 BASIC OPERATION 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 25 Lock function To prevent accidental frequency changes and unnecessary function access, use the lock function. Push and hold [MENU/function ON and OFF.] for 1 sec.

to turn the lock Dualwatch operation Dualwatch operation monitors two frequencies simultaneously. The IC-92AD has two independent receiver circuits as A band and B band (available frequency bands and operating mode are different depending on bands). ." " appears while the lock function is activated. · [PWR], [PTT] and [MENU/] is operatable while the lock function is activated. · The squelch control and volume control can be used while the lock function is in use with default setting.

Either or both the squelch control and volume control can also be locked in set mode. (pgs. 98, 127) D Dualwatch operation Push and hold [MAIN/DUAL] for 1 sec. to turn the dualwatch operation ON and OFF. · While in dualwatch operation, the display indicates A band in the upper side and B band in the lower side. +DUP DTCS FM PRIO WX EMR A Appears +DUP DTCS FM PRIO WX EMR MemoName LOW ATT 146 14 01025 PSKIP μ 000 A MENU MemoName LOW ATT 145 14 00025 PSKIP MAIN DUAL PRIO 146 14 010 25 000 μ PRIO EM 440 44 000 50 000 μ FM FM +DUP DTCS +DUP DTCS W PS μ 000 W PS 5 BASIC OPERATION D Setting audio volume The audio level for dualwatch operation can be adjusted both on upper side band and lower side band simultaneously (default). This setting can be set separately for each band in sounds set mode. q Push and hold [MAIN/DUAL] for 1 sec. to enter the dualwatch operation, if necessary. w Rotate [VOL] to adjust the audio level for the main band.

· If squelch is closed, push and hold [SQL] to verify the audio level. · The display shows the volume level while setting. [VOL] PRIO 146 14 010 μ 000 PRIO EM 440 44 000 μ 000 FM FM +DUP DTCS +DUP DTCS W PS D Main band selection Push [MAIN/DUAL] to select upper side band or lower side band as the main operating band alternately. PRIO 146 14 010 μ 000 PRIO EM 440 44 000 μ 000 FM FM +DUP DTCS +DUP DTCS W PS W PS MAIN DUAL 146 14 010 μ FM +DUP DTCS FM +DUP DTCS W PS PRIO 000 PRIO EM 440 44 000 μ 000 W PS W PS +DUP DTCS 146 14 010 25 μ VOL 75 440 44 000 μ FM +DUP DTCS W PS PRIO 000 W PS PRIO EM 000 Setting for A band (upper side) PRIO 25 146 14 010 μ 000 +DUP DTCS W PS FM +DUP DTCS 440 44 00075 μ VOL W PS PRIO EM 000 Setting for B band (lower side) 26 BASIC OPERATION D Volume setting for dualwatch The volume setting for dualwatch can be set for both bands simultaneously or for each band separately in set mode. q Enter "VOLUME SELECT" in sounds set mode. (p. 115) MENU screen SOUNDS VOLUME SELECT (Push [MENU/]) (Rotate [DIAL], then push [](5).) 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 27 D Setting squelch level q Push and hold [MAIN/DUAL] for 1 sec. to enter the dualwatch operation, if necessary w While pushing and holding [SQL], rotate [DIAL] to adjust the main band's squelch level. · "LEVEL 1" is loose squelch and "LEVEL 9" is tight squelch.

· "AUTO" indicates automatic level adjustment with a noise pulse count system. · "OPEN" indicates continuously open setting. [DIAL] PRIO 146 14 010 μ 000 PRIO EM 440 44 000 μ 000 FM FM +DUP DTCS +DUP DTCS W PS w Rotate [DIAL] to select "BOTH" or "SEPARATE." e Push [](5) (or [](4)) to return to sounds set mode, and push [MENU/LOCK] to return to frequency indication. W PS [SQL] MAIN DUAL +DUP DTCS 146 14 010 25 μ +DUP DTCS W PS PRIO 000 SQUELCH:AUTO PRIO EM 75 440 44 000 μ 000 W PS FM Setting for A band (Upper side) PRIO 25 146 14 010 μ 000 +DUP DTCS W PS FM +DUP DTCS 440 44 000 75 μ W PS PRIO EM 000 SQUELCH:LEVEL6 Setting for B band (Lower side) [DIAL] [](2)/[](8) [](5) [](6) 5 BASIC OPERATION TV channel operation TV channel operation is available only when TV channels are programmed using the optional RS-92. (p. 137) Also available for A band operation only. w Rotate [DIAL] to select the channel to be skipped. · To clear the skip setting, rotate [DIAL] while pushing and holding [BAND] to select a skip channel. D TV channel receiving q Push [CALL] several times to select TV channels.

· "TV" and channel number appear. e Push and hold [SKIP](5) for 1 sec. to toggle the skip setting ON and OFF. · "SKIP" appears when the channel is set as skip channel. [DIAL] w Rotate [DIAL] to select the desired channel. · While pushing and holding [BAND], rotating [DIAL] selects the all channels including skip channel. [DIAL] A Appears +DUP DTCS WFM PRIO WX EMR TV mode indication Channel indication +DUP DTCS WFM PRIO WX EMR D MemoName CALL C 12 25 P SKIP BAND LOW ATT μ TV 5 SKIP RX CS A MemoName P CALLC RX CS 10 25 SKIP LOW ATT μ TV D Automatic TV channel programming TV channels can be programmed automatically. q Push [CALL] several times to select TV channels. +DUP DTCS WFM PRIO WX EMR D Skip channel setting Unwanted channels can be skipped for rapid selection, etc. q Push [CALL] several times to select TV channels.

· "TV" and channel number appear. · "TV" and channel number appear. A MemoName LOW ATT 2 25 P SKIP w Push [SCAN](2) to start TV channel programming. μ TV · The programming will automatically stop after scanning all channels. 28 REPEATER AND DUPLEX OPERATIONS Repeater operation When using a repeater, the transmit frequency is shifted from the receive frequency by the offset frequency. (p. 110) This is called duplex operation. It is convenient to program repeater information into memory channels. (p. 74) Repeater 144. 700 MHz; 144.700 MHz; Uplink (transmitting freq.) Downlink (receiving freq.) 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 29 e Push and hold [TONE](7) for 1 sec. to activate the subaudible tone encoder, according to repeater requirements. · "TONE" appears. Refer to p. 121 for tone frequency settings. [SQL] DSQ TONE 145.300 MHz; 145.



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