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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-V85E. You'll find the answers to all your questions on the ICOM IC-V85E 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-V85E
User guide ICOM IC-V85E
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Instruction manual ICOM IC-V85E



FM TRANSCEIVER

IC-V85
IC-V85E
IC-V85-T

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.

Icom Inc.



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Manual abstract:

" Many hours of research and development went into the design of your ICV85. **IMPORTANT READ ALL INSTRUCTIONS** carefully and completely before using the transceiver. **SAVE THIS INSTRUCTION MANUAL--** This instruction manual contains important operating instructions for the IC-V85. **EXPLICIT DEFINITIONS DEFINITION** Personal injury, fire hazard or electric shock **R WARNING!** may occur. **CAUTION NOTE** Equipment damage may occur. Recommended for optimum use. No risk of personal injury, fire or electric shock. **WORD D FEATURES 7 W*--** high transmit output power *7 W : IC-V85 except [THA] version, 5.5 W : IC-V85 [THA] version **CTCSS and DTCS** encoder/decoder standard **Optional DTMF decoder** 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. **i PRECAUTIONS RWARNING RF EXPOSURE!** This device emits Radio Frequency (RF) energy. Extreme 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) **RWARNING! NEVER** connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock. @@This will ruin the transceiver. **RWARNING! @@@@RWARNING! @@Hearing** experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume or discontinue use. **NEVER** cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver may be damaged. **NEVER** expose the transceiver to rain, snow or any liquids. The transceiver may be damaged. **NEVER** operate or touch the transceiver with wet hands. This may result in an electric shock or ruin the transceiver. **RWARNING! NEVER** operate the transceiver while driving a vehicle. Safe driving requires your full attention-- anything less may result in an accident. **NEVER** attempt to charge alkaline or dry cell batteries. Be aware that external DC power connections will charge batteries inside the battery case. This will damage not only the battery case but also the transceiver. **DO NOT** push the PTT when not actually desiring to transmit. **ii PRECAUTIONS--continued DO NOT** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

SUPPLIED ACCESSORIES q Antenna*

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. 1 w Hand strap* . . .

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. . . 1 e 2251 OPT sheet* . . .

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. . . 1 r Battery pack*/Battery case* . .

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. 1 t Belt clip* (with screws)

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. 1 y AC Adapter*

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. 1 *Not supplied with some versions. q w r t **BE CAREFUL!** The transceiver will become hot when operating it continuously for long periods. **AVOID** using or placing the transceiver 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.

AVOID the use of chemical agents such as benzine or alcohol when cleaning, as they can damage the transceiver's surfaces. Even when the transceiver power is OFF, a slight current still flows in the circuits. Remove the battery pack or case from the transceiver when not using it for a long time. Otherwise, the battery pack (Li-Ion: BP-227) or installed batteries will become exhausted. For USA only: Caution: Changes or modifications to this transceiver, not expressly approved by Icom Inc.

, could void your authority to operate this transceiver under FCC regulations. **iii y e OPTION LIST** · BP-226 BATTERY CASE Battery case for 5×AA (LR6) size alkaline batteries. · BP-227 LI-ION BATTERY PACK 7.2 V/1700 mAh Lithium-Ion battery pack. · BC-119N DESKTOP CHARGER + AD-100 CHARGER ADAPTER For rapid charging of battery packs.

An AC adapter is supplied with the charger. Charging time: approx. 22.5 hrs. · BC-121N MULTI-CHARGER + AD-100 CHARGER ADAPTER (6 pcs.) For rapid charging of up to 6 battery packs (six AD-100's are required) simultaneously. An AC adapter may be supplied depending on version. Charging time: approx. 22.5 hrs.

· CP-19R CIGARETTE LIGHTER CABLE WITH NOISE FILTER Used for operation and charging a battery pack connected to transceiver via a DC power source. (11.7 V15.9 V DC) · MB-98 BELT CLIP MB-98: Same as that supplied with the transceiver. · UT-108 DTMF DECODER UNIT Provides pager and

code squelch capabilities. · SP-13 EARPHONE Provides clear receive audio in noisy environments. · FA-B2E WHIP ANTENNA Same as that supplied with transceiver. · HM-75A/HM-131L/HM-158L SPEAKER-MICROPHONES Combination speaker-microphones that provide convenient operation while hanging the transceiver from your belt. HM-75A has 4 function switches for remote control capabilities. HM-131L/HM-158L are equipped with an earphone jack and a revolving clip.

· HM-128L/HM-153L/HM-166L EARPHONE-MICROPHONE You can clip the microphone with PTT switch to your lapel or breast pocket. · HS-85 HEADSET Allows you hands-free operation. Includes VOX, PTT and "one-touch" PTT with time-out timer. · VS-1L PTT/VOX UNIT+HS-94 HEADSET VS-1L PTT/VOX UNIT Required when using the headset. HS-94 EAR-PIECE TYPE HEADSET Earhook headset with flexible boom microphone.

· CS-V85 CLONING SOFTWARE+OPC-478/U/UC CLONING CABLE Provide quick and easy programming of memory channel, memory name etc. · OPC-474 CLONING CABLE For cloning between transceivers. · LC-167 CARRYING CASE Helps protect the transceiver from scratches, etc.. iv TABLE OF CONTENTS FOREWORD .

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.... 47transceiver automatically stops charging the battery pack when the battery pack is fully charged (BP-227's voltage becomes approx. 7.2 V) or the continuous charging time is over 15 hours. · CP-19R (Optional) Turn power OFF while charging the battery pack. · Charging time period: Approx. 1213 hours to cigarette lighter socket (12 V DC) III QUICK REFERENCE GUIDE Now that you have your IC-V85 ready, you are excited to get on the air. We would like to walk you through a few basic operational steps to make your first "On The Air" u 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT FUNC 7 8 9 · Continue to push and hold [MR] for 1 sec. after 3 beeps are emitted, to increment the displayed memory channel number. MR A 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT FUNC 7 8 9 VI Quick reference guide Programming memory channels 1 D Antenna ACCESSORIES Accessory attachment Attach the antenna to the transceiver as illustrated below. Keep the [SP/MIC] cap (SP/MIC jack cover) attached when jacks are not in use to keep the contacts clean. Attach the [SP/MIC] cap.

[SP/MIC] cap 1 ACCESSORIES D Belt clip Conveniently attaches to your belt. Attach the belt clip with the supplied screws using a phillips screwdriver. To attach the belt clip 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 2 D Hand strap Slide the hand strap through the loop on the top of the rear panel as illustrated below. Facilitates carrying. 2 PANEL DESCRIPTION Switches, controls, keys and connectors q CONTROL DIAL !0 ANTENNA CONNECTOR Speaker w PTT SWITCH Microphone o EXTERNAL SPEAKER/ MICROPHONE JACKS e SQUELCH/MONITOR SWITCH r UP/DOWN KEYS t KEYPAD i FUNCTION DISPLAY u POWER KEY y EXTERNAL DC JACK 3 PANEL DESCRIPTION 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 4 q CONTROL DIAL [VOL] (p.

19) Rotate to adjust the volume level. YZ The assigned function for [VOL] and [Y]/[Z] can be exchanged in INITIAL SET MODE (pgs. 18, 53). w PTT SWITCH [PTT] Push and hold to transmit; release to receive. e SQUELCH/MONITOR SWITCH [MONI] (p. 19) Push and hold to open the squelch temporarily and monitor the operating frequency. Y Z While pushing and holding this key, push [Y] or [Z] to adjust the squelch level. YZ The assigned function for [VOL] and [Y]/[Z] can be exchanged in INITIAL SET MODE (pgs. 18, 53). YZ r UP/DOWN KEYS [Y]/[Z] (p.

18) Selects the operating frequency, set mode items, etc. YZ The assigned function for [VOL] and [Y]/[Z] can be exchanged in INITIAL SET MODE (pgs. 18, 53). t KEYPAD (pgs. 5, 6) Used to enter operating frequency, the DTMF codes, etc. y EXTERNAL DC JACK [DC 11V] Connect an external DC power supply through the optional CP-19R for external DC operation. (p. 16) Connect the supplied (or optional) wall charger, BC167A/D, to charge the attached battery pack. (p. 13) u POWER KEY [PWR] (p.

17) Push and hold for 1 sec. to turn the power ON and OFF. i FUNCTION DISPLAY (pgs. 7, 8) o EXTERNAL SPEAKER/MICROPHONE JACKS [SP/MIC] Connect an optional speaker-microphone or headset, if desired. The internal microphone and speaker will not function when a connector is inserted. See page iv for a list of available options. !0 ANTENNA CONNECTOR (p. 1) Connects the supplied antenna. 2 PANEL DESCRIPTION D Keypad A B C D TONE FUNC TONE CALL P.BEEP MR T.

SCAN CLR BANK 1 1 DUP 2 SCAN 3 SKIP OPT [1-TONE] Input digit "1" during frequency input, memory channel selection, etc. (pgs. 17, 26) After pushing [FUNC], selects the subaudible tone function. (pgs. 22, 39) [2-P.BEEP] Input digit "2" during frequency input, memory channel selection, etc. (pgs. 17, 26) After pushing [FUNC], turns the pocket beep function ON and OFF. (p. 41) [3-T.

SCAN] Input digit "3" during frequency input, memory channel selection, etc. (pgs. 17, 26) After pushing [FUNC], starts tone scanning. (pgs. 24, 42)
[4-DUP] Input digit "4" during frequency input, memory channel selection, etc. (pgs. 17, 26) After pushing [FUNC], selects duplex function (duplex, +duplex, simplex). (p. 22) [5-SCAN] Input digit "5" during frequency input, memory channel selection, etc. (pgs. 17, 26) After pushing [FUNC], starts scanning. (p. 35) 4 P_{RIO} 5 SET 6 H/M/L 0 ENT P.BEEP 7 A 8 9 2 FUNC [FUNC] Access to secondary function. [CALL] Selects the call channel.
(p. 26) [MR] Selects a memory mode. (p. 26) After pushing [FUNC], enter into memory programming/editing mode. (pgs. 27-29) After pushing [FUNC], programs/transfers VFO/memory or call channel contents into memory channel/VFO when pushed and held for 1 sec. (pgs. 27-29) [CLR] Selects VFO mode, aborts direct frequency input, or cancels scanning, etc. (pgs. 17, 35) T.SCAN 3 B CALL DUP C MR 4 SCAN 5 D CLR 5
PANEL DESCRIPTION 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 6 SKIP 6 [6-SKIP] Input digit "6" during frequency input, memory channel selection, etc. (pgs. 17, 26) After pushing [FUNC], sets and cancels skip setting for memory scan during memory mode. (p. 37) [7-P_{RIO}] Input digit "7" during frequency input, memory channel selection, etc.
(pgs. 17, 26) After pushing [FUNC], starts priority watch. (p. 38) [8-SET] Input digit "8" during frequency input, memory channel selection, etc. (pgs. 17, 26) After pushing [FUNC], enters into SET MODE. (p. 47) [9-H/M/L] Input digit "9" during frequency input, memory channel selection, etc. (pgs. 17, 26) After pushing [FUNC], switches transmit power between high, middle and low output power.
(p. 19) When the transceiver becomes hot during high or middle output power operation, the built-in protection circuit activates to reduce the transmit output power to 3 W (approx.). OPT 0 [0-OPT] Input digit "0" during frequency input, memory channel selection, etc. (pgs. 17, 26) After pushing [FUNC], selects an optional function mode, such as pager or code squelch operation. (pgs. 45, 46) [#-BANK] After pushing [FUNC], enters a memory bank selection.



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(p. 30) [ENT·] Sets the frequency even if the full 6 digits of frequency have not been entered.

(p. 17) After pushing [FUNC], switches key lock function ON and OFF when pushed and held for 1 sec. Lock all keys, except [PWR], [PTT], [MONI] and audio level adjustment. (p. 20) PRIO BANK 7 ENT SET 8 H/M/L 9 2 PANEL DESCRIPTION Function display qw e r qq q q !4 !3 !2 t q y u q io qq !0 !1 q BUSY INDICATOR Appears when a signal is being received or the squelch is open. Blinks while the monitor function is activated. (p. 19) w SIGNAL INDICATOR Shows receiving signal strength as below. e TRANSMIT INDICATOR (p. 19) Appears during transmit.

r PAGER CALL INDICATOR (p. 46) Blinks when a pager call is received. (This indicator appears only when an optional UT-108 DTMF DECODER UNIT is installed.) t DUPLEX INDICATOR (p. 23) "+" appears when plus duplex, "-" appears when minus duplex is selected. Weak RX Signal level Strong Shows the output power level while transmitting. Low Middle High 7 PANEL DESCRIPTION y TONE INDICATOR " " appears while the subaudible tone encoder is in use. (p. 23) " " appears while the tone (CTCSS) squelch function is in use. (p. 39) " " appears with the " " or " " indicator while the pocket beep function (CTCSS or DTCS) is in use. (p. 41) u OUTPUT POWER INDICATOR (p.

19) "L" appears when the low output power is selected. "M" appears when the middle output power is selected. "H" appears when high output power is selected. i KEY LOCK INDICATOR (p. 20) Appears when the key lock function is ON.

o FUNCTION INDICATOR Appears while a secondary function is being accessed. !0 AUTO POWER OFF INDICATOR (p. 52) Appears while the auto power OFF function is activated. !1 FREQUENCY READOUT Shows operating frequency, channel number or channel names, depending on display type (p. 20). !2 MEMORY CHANNEL INDICATOR (p. 26) Shows the selected memory channel number. "C" appears when the call channel is selected. 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 8 !3 MEMORY MODE INDICATOR (p. 26) Appears while in memory mode or channel number indication mode.

!4 SKIP CHANNEL INDICATOR (p. 37) Appears when the selected memory channel is specified as a skip channel. 3 BATTERY PACKS D Battery packs Battery pack BP-226 BP-227 Voltage Capacity Battery life*1 --*2 7 hrs. Battery pack replacement q Before replacing the battery pack, push and hold [PWR] for 1 sec. to turn the power OFF. Battery case for AA (LR6)×5 alkaline 7.2 V 1700 mAh PWR A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK PWR 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 *1 Operating periods are calculated under the following conditions; Tx : Rx : standby =1 : 1 : 8, power save function: auto setting is activated *2 Operating period depends on the alkaline cells used. w Push the battery release button in the direction of the arrow as shown below.

The battery pack is then released. Battery pack Battery release button 9 BATTERY PACKS 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 D Battery case-- optional for some versions When using a BP-226 BATTERY CASE attached to the transceiver, install 5 AA (LR6) size alkaline batteries as illustrated at right. q Hook your finger under the latch, and open the cover in the direction of the arrow (q). (Fig.1) w Then, install 5 × AA (LR6) size alkaline batteries. (Fig.2) · Install the alkaline batteries only. · Be sure to observe the correct polarity. · Do not pin the ribbon under the batteries. e Close the cover with fitting in the direction of the arrow (w) first, then firm the latch in place (e).

(Fig.1) · Be sure to the gasket and the ribbon are set correctly, and do not protrude out of the battery case. (Fig.3) Fig.1 BP-226 q Latch w e Fig.2 Ribbon R CAUTION! · When installing batteries, make sure they are all the same brand, type and capacity. Also, do not mix new and old batteries together. · Keep battery contacts clean. It's a good idea to clean battery terminals once a week. Fig.

3 Gasket Ribbon 3 BATTERY PACKS Cautions 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 an 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. 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 build up 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. 11 BATTERY PACKS 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 12 · WARNING! NEVER put the battery in a microwave oven, high-pressure container, or in an induction heating cooker.



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This could cause a fire, overheating, or cause the battery to rupture. · CAUTION! Always use the battery within the specified temperature range for the transceiver (10°C to +60°C; +14°F to +140°F) and the battery itself (10°C to +60°C; +14°F to +140°F). Using the battery out of its specified temperature range will reduce the battery's performance and battery life. · CAUTION! Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above +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 becomes about half-capacity, then keep it safely in a cool dry place with the temperature between 20°C to +35°C (4°F to +95°F). 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: 10°C to +40°C (+50°F to +104°F). Icom recommends charging the battery at +20°C (+68°F). The battery may heat up or rupture if charged out of the specified temperature range. Additionally, battery performance or battery life may be reduced. 3 BATTERY PACKS Regular charging When using a BP-227 BATTERY PACK attached to the transceiver, prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation.

Transceiver · BC-167A/D D Charging note · Be sure to turn the transceiver power OFF. Otherwise the battery pack will not be charged completely or takes longer charging time periods. to [DC 11V] to AC outlet · External DC power operation becomes possible when using an optional CP-19R. The attached battery pack is also charged simultaneously, except during transmit. (see p.

16 for more details) Even through there is no indication during regular charging, the transceiver automatically stops charging the battery pack when the battery pack is fully charged (BP-227's voltage becomes approx. 7.2 V) or the continuous charging time is over 15 hours. · CP-19R (Optional) Turn power OFF while charging the battery pack. · Charging time period: Approx. 1213 hours to cigarette lighter socket (12 V DC) 13 BATTERY PACKS 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 14 Rapid charging D AD-100 installation Install the AD-100 desktop charger adapter into the holder space of the BC-119N/121N. Connect the plugs of the BC-119N/121N to the AD-100 desktop charger adapter with the connector, then install the adapter into the charger with the supplied screws. Desktop charger adapter AD-100 Screws supplied with the charger adapter Connectors Plugs BC-119N 3 BATTERY PACKS D Rapid charging with the BC-121N+AD-100 The optional BC-121N allows up to 6 battery packs to be charged simultaneously. The following items are additionally required. · Six AD-100 (Charger Adapter).

· An AC adapter (BC-157; may be supplied with the BC-121N depending on version) or the DC power cable (OPC-656). Transceiver Turn power OFF. Turn power OFF. AC adapter (Not supplied with some versions.) AD-100 charger adapter is installed in BC-119N. AC adapter (purchased separately) AD-100 charger adapters are installed in each slot. Battery pack D Rapid charging with the BC-119N+AD-100 The optional BC-119N provides rapid charging of battery packs. The following items are additionally required. · AD-100 (Charger Adapter). · An AC adapter (may be supplied with the BC-119N depending on version) or the DC power cable (OPC-515L/CP-17L).

Transceiver Battery pack MUL TI-C HARG ER OPC-515L or CP-17L Optional OPC-515L (for 13.8 V power source) or CP-17L (for 12 V cigarette lighter socket) can be used instead of the AC adapter. Charge indicator (each indicator functions independently) DC power cable (OPC-656) (Connect with the DC power supply; 13.8 V at least 7 A) 15 BATTERY PACKS 3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 16 External DC power operation An optional cigarette lighter cable (CP-19R; for 12 V cigarette lighter socket) can be used for external power operation. D Operating note · BE SURE to use optional CP-19R when connecting a regulated 12 V DC power supply into the [DC 11V] jack of the transceiver.

· The voltage of the external power supply must be within 11.715.9 V DC when using CP-19R. · NEVER CONNECT OVER 16 V DC through CP19R. @@@@Otherwise, the vehicle battery will become exhausted.

@@@@@@@@@@@@@@@@@@@@The tuning step is selectable in SET MODE. qPush [FUNC] then [SET](8) to enter SET MODE. @r Push [ENT] (or [CLR]) to exit SET MODE. [VOL] is assigned as AF volume control. [VOL] is assigned as tuning dial. r To exit INITIAL SET MODE, push [ENT] (or [CLR]). 4 BASIC OPERATION Setting audio/squelch level D To set the audio level Rotate [VOL] to set the desired audio level while receiving a signal. · When no signal is received, push and hold [MONI] while setting the audio level. · When [VOL] is assigned as tunYZ ing dial, push [Y]/[Z] to adjust the audio output level. (pgs.

18, 53) [VOL] Receive and transmit q Push and hold [PWR] for 1 sec. to turn the power ON. w Adjust audio volume to the desired level. e Set the frequency. @@ · Signal indicator shows the relative signal strength level. @@ · "H" appears when high power is selected. · "M" appears when middle power is selected. · "L" appears when low power is selected. t Push and hold [PTT] to transmit, then speak into the microphone. · "\$" appears.

@@This may distort the signal. @@@@ (pgs. @@ Push and hold [MONI] to monitor the operating frequency. The [MONI] key can be set to 'sticky' operation in SET MODE. @@The display type is selected in INITIAL SET MODE (p. 53). @@In this display pre-programmed memory channel names are displayed. VFO mode is selectable.



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Displays operating frequency. @@@@In this type only preprogrammed memory channel numbers are displayed.

@@- Scan function (p. 35) - Output power setting (p. 19) - DTMF memory function (p. @@@@Push [FUNC] then push and hold [] (ENT) for 1 sec. @@@@q Select the desired weather channel. w Turn the weather alert function ON in SET MODE. Push [FUNC] and [SET](8) to enter SET MODE. @@ push [ENT] (or [CLR]) to exit SET MODE. @@@@ for the announcement. @@@@ (approx.

) in case the alert function is turned ON. This is caused by the WX alert function. To eliminate the interruptions, set the weather alert item OFF in SET MODE. 21 REPEATER OPERATION General When using a repeater, the transmit frequency is shifted from the receive frequency by the offset frequency. It is convenient to program repeater information into memory channels. q Set the receive frequency (repeater output frequency). w Push [FUNC] and [DUP](4) several times to select "" or "+." "" indicates the transmit frequency is shifted down; "+" indicates the transmit frequency is shifted up. · Blinking "" or "+" indicates the reversed duplex mode is selected in SET MODE (p. 48).

5 SET MODE Reversed duplex mode USING When the reversed duplex mode is selected, the receive frequency shifts. (Transmit frequency shifts in normal duplex mode.) Each receive and transmit frequency is shown in the table below with the following conditions; Input frequency Direction Offset frequency : 145.30 MHz : (negative) : 0.6 MHz ePush [FUNC] and [TONE](1) several times to activate the subaudible tone encoder, if required. " " appears. · Select the desired subaudible tone frequency, if necessary. (p. 23) q Push [FUNC], then push [SET](8) to enter SET MODE. Y Z w Push [Y] or [Z] several times until "REV" appears.

Reversed OFF ON Rx freq. 145.30 MHz 144.70 MHz Tx freq. 144.70 MHz 145.30 MHz r Push and hold [PTT] to transmit. · The displayed frequency automatically changes to the transmit frequency (repeater input frequency). · If "OFF" appears, check the offset frequency (see next page for details) and direction. e Rotate [VOL] to turn the reversed duplex mode ON or OFF.

r Push [ENT] (or [CLR]) to exit SET MODE. t Release [PTT] to receive. y Push and hold [MONI] to check whether the other station's transmit signal can be directly received. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 22 5 REPEATER OPERATION Offset frequency USING SET MODE Subaudible tones USING SET MODE When communicating through a repeater, the transmit frequency is shifted from the receive frequency by an amount determined by the offset frequency. q Push [FUNC], then push [SET](8) to enter SET MODE. Y Z w Push [Y] or [Z] several times until "±" and offset frequency appear. Some repeaters require subaudible tones to be accessed. Subaudible tones are added to your normal signal and must be set in advance. q Push [FUNC], then push [SET](8) to enter SET MODE. Y Z w Push [Y] or [Z] several times until "rt" appears.

e Rotate [VOL] to select the desired offset frequency. · Selectable steps are the same as the pre-set tuning steps. · The unit of the displayed offset frequency is "MHz." e Rotate [VOL] to select the desired subaudible tone. r Push [ENT] (or [CLR]) to set the selected tone and exit SET MODE.

r Push [ENT] (or [CLR]) to set the offset frequency and exit SET MODE. · Available subaudible tone frequencies 67.0 69.3 71.9 74.

4 77.0 79.7 82.5 85.4 88.5 91.5 94.8 97.4 100.0 103.

5 107.2 110.9 114.8 118.8 123.0 127.3 131.8 136.5 141.3 146.

2 151.4 156.7 159.8 162.2 165.

5 167.9 171.3 173.8 177.3 179.

9 183.5 186.2 189.9 192.8 196.6 199.5 203.5 206.5 (unit: Hz) 210.7 254.

1 218.1 225.7 229.1 233.6 241.8 250.3 23 REPEATER OPERATION D Tone information Some repeaters require different tone system to be accessed. DTMF TONES While pushing [PTT], push the desired DTMF keys ([0][9], [A], [B], [C], [D], [#] and [J]) to transmit DTMF tones. · [J] transmits tone "E," [#] transmits tone "F." · The transceiver has 16 DTMF memory channels (p.

32). 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 24 Repeater lockout USING INITIAL SET MODE This function helps prevent interference to other stations by inhibiting your transmission when a signal is received. The transceiver has two inhibiting conditions, repeater and busy. @@ Y Z w Push [Y] or [Z] several times until "RLO" appears. @@@@ Reset these frequencies, if necessary.

@@ Y Z w Push [Y] or [Z] several times until "Rpt" appears. @@@@17, 18), duplex direction (p. 22) and offset (p. @@@23, 40) and skip information* (p. 37).

*except for scan edge memory channels. 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 26 In addition, a total of 10 memory banks, A to J, are available for usage by group, etc. Selecting a memory channel q Push [MR] to select memory mode. · "X" appears. C Selecting the call channel Push [CALL] to select the call channel. · "C" is displayed instead of the memory channel number. · Push [CLR] or [MR] to select VFO or memory mode, respectively. B Push MR w Enter 2 digits to select the desired memory channel (or YZ push the [Y]/[Z] keys). · The memory channels 09 are preceded by a "0." · When [VOL] is assigned as tuning dial, rotate [VOL] to select the memory channel.

(pgs. 18, 53) TONE DUP Push CALL "C" appears Push 1 4 (Selection example: Memory channel 14) 6 MEMORY/CALL OPERATION Programming the memory/call channels q Push [CLR] to select VFO mode, if necessary. w Set the desired frequency. e Set other information, such as tone, duplex, as desired. r Push [FUNC], then [MR] momentarily. · "X" and memory channel number blink. y Push [FUNC], then push and hold [MR] for 1 sec., when 3 beeps will sound to program the information into the selected memory channel and return to VFO. C MR PWR C A FUNC TONE B CALL P.BEEP C MR T.

SCAN D CLR BANK A MR PWR A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK 1 DUP 2 SCAN 3 SKIP OPT FUNC A 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 1 DUP 2 SCAN 3 SKIP OPT FUNC 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 · After 3 beeps are emitted, continue to hold [MR] to increment the displayed memory channel number. Y Z t Push [Y] or [Z] to select the desired memory channel. · When programming the call channel, select "C."

" · When [VOL] is assigned as tuning dial, rotate [VOL] to select the memory channel. (pgs. 18, 53) PWR A B C D FUNC TONE CALL P.BEEP MR T.SCAN CLR BANK 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 27 MEMORY/CALL OPERATION 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 28 Channel name programming q Select a "Channel Name Indication" type in MODE (p.



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53). wPush [MR] to select memory mode, if necessary. ePush [FUNC], then push [SET](8) to enter to the channel name programming mode. · The character to be edited blinks. INITIAL SET Memory transfers This function transfers a memory channel's contents to VFO (or another memory/call channel). This is useful when searching for signals around a memory channel frequency and for recalling the offset frequency, subaudible tone frequency etc. [VOL] D Memory/call VFO C rRotate [VOL] to select a character. A FUNC TONE B CALL P.BEEP C MR T.SCAN PWR D CLR BANK MR A 1 DUP 2 SCAN 3 SKIP OPT FUNC 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 ENT qSelect the memory (call) channel to be transferred: Push [MR] (or [CALL]) to select memory (call channel) mode.

YZ Push [Y] or [Z] to select the memory channel. · When [VOL] is assigned as tuning dial, rotate [VOL] to select the memory channel. (pgs. 18, 53) PWR A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK [VOL] Y tPush [Y] to move the cursor to Z right, [Z] to move the cursor to left. C SET MR B 8 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT CALL A · Up to 5 characters can be used for channel name. · Usable characters are AZ, 09, "space," +, , =, , /, [,] and :. y Push [ENT] (or [CLR]) to set the name and exit the channel name programming mode. wPush [FUNC], then push and hold [MR] for 1 sec.

to transfer the selected memory contents to the VFO. · VFO mode is selected automatically. 7 8 9 FUNC 6 MEMORY/CALL OPERATION D Clearing a memory [VOL] D Memory/call memory/call qSelect the memory (call) channel to be transferred: Push [MR] (or [CALL]) to select the memory (call channel) mode. YZ Push [Y] or [Z] to select the memory channel. · When [VOL] is assigned as tuning dial, rotate [VOL] to select the memory channel. (pgs. 18, 53) PWR A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK qPush [CLR] to select VFO mode, if necessary. wPush [FUNC], then push [MR] to enter the memory transfer mode.

· "X" and a memory channel number blink. YZ ePush [Y] or [Z] to select the memory channel to be cleared. C MR B 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT CALL A wPush [FUNC], then push [MR] momentarily. · "--" and "X" blink. 7 8 9 · When [VOL] is assigned as tuning dial, rotate [VOL] to select the memory channel. (pgs. 18, 53) · The call channel cannot be cleared. C PWR A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK MR A 1 DUP 2 SCAN 3 SKIP OPT FUNC YZ ePush [Y] or [Z] to select the target memory.

· When [VOL] is assigned as tuning dial, rotate [VOL] to select the target channel. (pgs. 18, 53) r Push [FUNC], then push and hold [MR] for 1 sec. · Memory mode is selected and the contents are transferred to the target memory. rPerform the following operation within 1 sec, otherwise the transceiver returns to the memory mode without clearing the memory. - Push [FUNC], then push [MR] momentarily. - Push [FUNC], then push and hold [MR] for 1 sec.

4 5 6 0 PRIO SET H/M/L FUNC 7 8 9 ENT · The contents of the selected memory are cleared. t Push [CLR] to return to regular operation. 29 MEMORY/CALL OPERATION 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 30 Memory bank selection The IC-V85 has a total of 10 banks (A to J). Each memory channel, 0 to 99, may be assigned to one of the banks for easy memory management. q Push [MR] to select memory mode. C Memory bank setting q Push [MR] to select memory mode, then select the desired Y Z memory channel via [Y] or [Z]. C Push MR Push MR w Push [FUNC] and [BANK](#) to enter memory bank selection. · Bank indicator blinks.

[VOL] w Push [FUNC] and [SET](8) to enter SET MODE. YZ e Push [Y] or [Z] several times until "bAk" appears. [VOL] PWR A B CALL P.BEEP C MR T.SCAN D CLR BANK A e Rotate [VOL] to select the desired bank, A to J.

· Banks that have no programmed contents are skipped. PWR A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK BANK r Rotate [VOL] to select the desired bank. FUNC TONE FUNC 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 ENT SET 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT 8 ENT 7 8 9 r Push [ENT] (or [CLR]) to select the bank. · Indicator stops blinking. A FUNC Y Z t Push [Y] or [Z] to select the channel in the bank. · No channel numbers are displayed for memory bank operation. t Push [ENT] (or [CLR]) to assign the channel to the bank and return to regular memory condition. y Repeat steps q to t to assign another memory channel to the same or another bank.

NOTE: Display type setting (pgs. 20, 53) in INITIAL SET must be selected "FR," otherwise the memory bank operation cannot be performed. y To return to regular memory condition, push [FUNC] and [BANK](#) to enter memory bank mode, then push [ENT] (or [CLR]). MODE 6 MEMORY/CALL OPERATION Transferring bank contents Contents of programmed memory banks can be cleared or transferred to another bank. INFORMATION: Even if the memory bank contents are cleared, the memory channel contents still remain programmed. q Select the desired bank contents to be transferred or erased. Push [MR] to select memory mode. Push [FUNC] and [BANK](#), then rotate [VOL] to select the desired memory bank. · Bank indicator blinks. [VOL] w Push [FUNC] and [SET](8) to enter SET MODE.

YZ e Push [Y] or [Z] several times until "bAk" appears. · Bank indicator appears. [VOL] PWR A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK A FUNC r Rotate [VOL] to select the desired bank to receive the transferred information or erase the bank contents. · Select " " indication when erasing the contents from the bank. 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 ENT SET 8 Push [ENT] (or [CLR]) to select the bank then push [Y] Z and [Z] to select the desired contents. · Bank indicator stops blinking. PWR A FUNC TONE B CALL P.BEEP C MR T.

SCAN D CLR BANK BANK 1 DUP 2 SCAN 3 SKIP OPT t Push [ENT] (or [CLR]) to transfer or erase, and return to regular memory mode. y Repeat steps q to t for transferring or erasing an another bank's contents. 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 ENT A FUNC 31 DTMF MEMORY Programming a DTMF code sequence The transceiver has 16 DTMF memory channels (d0 to dF) for storage of often-used DTMF code sequence of up to 24 digits. DTMF memories are used to store phone numbers or control codes.



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q Push [FUNC], then push [OPT](0) to enter OPTION SET MODE. · Rotate [VOL] to select "dtm.OF," if necessary. A OPT 7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 32 Enter the desired DTMF code sequence by pushing the digit keys, [A], [B], [C], [D], [#] and [], in the desired sequence. · A maximum of 24 digits can be input. · [] enters tone "E", [#] enters tone "F".

" · If a digit is mistakenly input, push [MONI] or [PTT] momentarily then repeat from step q. Push FUNC 0 w Push and hold [OPT](0) for 1 sec. to select the DTMF memory. · One of "d0" to "dF" appears. OPT A B C D FUNC CALL P.BEEP MR T.SCAN CLR BANK MONI PWR A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK TONE Push 0 for 1 sec. 1 DUP 2 SCAN 3 SKIP OPT 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT 4 PRIO 5 SET 6 H/M/L 0 ENT eRotate [VOL] to select the desired DTMF memory.

rPush and hold [OPT](0) for 1 sec. to enter the DTMF programming mode. · " _ _ _ _ " appears. · Programmed memories can be cleared in this way. OPT 7 8 9 7 8 9 yPush [MONI] or [PTT] to save the digits and exit the DTMF programming mode.

· Programmed DTMF code sequence sounds when [MONI] is pushed. · Or after 24th digit is input, the transceiver automatically saves the digits and returns to step w. Push 0 for 1 sec. 7 DTMF MEMORY Transmitting a DTMF code sequence · DTMF memory indication The DTMF memory consists of 5 pages that are 1st to 5th, 6th to 10th, 11th to 15th, 16th to 20th and 21st to 24th digits. · 1st page indication · 2nd page indication D Using a DTMF memory channel q Push [FUNC], then push [OPT](0) to enter OPTION SET MODE.

· Rotate [VOL] to select "dtm.OF," if necessary. A OPT Push FUNC 0 w Push and hold [OPT](0) for 1 sec. to select the DTMF memory. Appears · 3rd page indication · 4th page indication Push OPT 0 for 1 sec. e Rotate [VOL] to select the desired memory. r Push [MONI] or [PTT] to exit the DTMF memory mode. Appears · 5th page indication Appears · Selected DTMF code sequence sounds when [MONI] is pushed. tWhile pushing [PTT], push [MONI] to transmit the selected DTMF memory. · After the DTMF code sequence is transmitted, the transceiver returns to receive automatically.

Blinks 33 DTMF MEMORY 7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 34 DTMF transmission rate D Manual DTMF code transmission While pushing [PTT], push digit keys, [A], [B], [C], [D], [#] and [] to transmit a DTMF code sequence manually. · [] transmits tone "E", [#] transmits tone "F." USING INITIAL SET MODE When slow DTMF transmission rates are required with DTMF memory transmission (as for some repeaters), the transceiver's rate of DTMF transmission can be adjusted. Y qWhile pushing and holding [Y] Z and [Z], turn the power ON to enter INITIAL SET MODE. Y Z wPush [Y] or [Z] several times until "dtd" appears. eRotate [VOL] to select the desired DTMF transmission rate. · Four rates are available: "1" (100 msec. intervals) is the fastest; "5" (500 msec. intervals) is the slowest. A FUNC TONE B CALL P.

BEEP C MR T.SCAN [VOL] A B C D FUNC PWR A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK CALL P.BEEP MR T. SCAN CLR BANK TONE 1 DUP 2 SCAN 3 SKIP PWR D CLR BANK PWR OPT 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 7 8 9 7 8 9 ENT rPush [ENT] (or [CLR]) to exit INITIAL SET MODE. 8 Band edge SCAN OPERATION Programmed scan End 1b 2b 3b Scan types PROGRAMMED SCAN Start 1A 2A 3A Scan edges Scan Jump Programmed scan P1 scans between 1A and 1b, P2 scans between 2A and 2b, and P3 scans between 3A and 3b frequencies. Band edge Programmed scan repeatedly scans between two user programmed frequencies (memory channels "1A3A" and "1b3b") or scans between upper and lower band edges. This scan is useful for checking for signals within a specific frequency range such as repeater output frequencies, etc. Scans between lower (start) and high (stop) frequency.

q Push [CLR] to select VFO mode, if necessary. wPush [FUNC] and [SCAN](5) to start a scan. A SCAN MEMORY (SKIP) SCAN Mch 1 Mch 0 Mch 99 Mch 10 Mch 2 Mch 3 Mch 4 Mch 5 Push FUNC 5 SKIP Mch 9 Mch 8 SKIP Mch 7 Mch 6 ePush [FUNC] and [SET](8) several times to select the desired scan edge, "P1," "P2," "P3" or "AL." · "AL" for full scan, "P1", "P2" and "P3" for programmed scan between the programmed scan edge channels as "1A" "1b," "2A" "2b" and "3A" "3b." Y Z · To change the scan direction, push [Y] or [Z]. · When [VOL] is assigned as tuning dial, rotate [VOL] to change the scan direction. (pgs. 18, 53) A SET PRIORITY WATCH Priority memory channel watch VFO frequency 145.20 MHz 5 sec. Mch 3 Priority channel 50 msec.

Mch 3 Priority memory channel scan Mch 2 VFO frequency 145.20 MHz 5 sec. Memory scan Priority channels Mch 4 Mch 5 Mch 6 Push FUNC 8 Mch 1 50 msec. Mch 99 SKIP r Push [CLR] to stop the scan. 35 SCAN OPERATION 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 36 Memory scan NOTE: Scan edges, 1A3A/1b3b, must be programmed in advance. Program them in the same manner as regular memory channels. (p. 27) If identical frequencies are programmed into the scan edges, programmed scan will not proceed. Memory scan repeatedly scans all programmed memory channels, except those set as skip channels. q Push [MR] to select memory mode, if necessary.

· "X" appears. · See below to select bank scan. w Push [FUNC] and [SCAN](5) to start the scan. Y Z · To change the scan direction, push [Y] or [Z]. · When [VOL] is assigned as tuning dial, rotate [VOL] to change the scan direction.

(pgs. 18, 53) A SCAN Push PWR A PWR FUNC 5 B C D FUNC A FUNC TONE B CALL P.BEEP C MR T.SCAN D CLR BANK CALL P.BEEP MR T. SCAN CLR BANK TONE e Push [CLR] to stop the scan. 1 DUP 2 SCAN 3 SKIP OPT 1 DUP 2 SCAN 3 SKIP OPT 4 PRIO 5 SET 6 H/M/L 0 ENT 4 PRIO 5 SET 6 H/M/L 0 ENT 7 8 9 7 8 9 · Bank scan --Select the desired bank in step q above. q Push [FUNC] and [BANK](#) to select memory bank mode. w Rotate [VOL] to select the desired bank, A to J.



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e Push [ENT] (or [CLR]) to select the bank. 8 SCAN OPERATION Skip channels In order to speed up the scan rate, you can select memory channels you don't wish to scan as skip channels. q Push [MR] to select memory mode, if necessary. · "X" appears. Scan resume condition USING SET MODE w Select a memory channel to set as a skip channel. e Push [FUNC] and [SKIP](6) to toggle the skip setting ON and OFF.

· "SKIP" appears when the channel is set as a skip channel. "SKIP" appears A SKIP When a signal is received during scanning, the scan resume condition determines what action the transceiver takes. The transceiver has 2 scan resume conditions available as illustrated below. Use SET MODE to select the one which best suits your needs. q Push [FUNC], then push [SET](8) to enter SET MODE. Y Z w Push [Y] or [Z] several times until "SCP" or "SCt" appears. e Rotate [VOL] to select the desired scan resume condition. · Pause scan: When receiving a signal, scan pauses on the signal until it disappears. Resumes 2 sec. after the signal disappears.

Pause scan · Timer scan: When receiving a signal, scan pauses on the signal for 5 sec., 10 sec. or 15 sec., then resumes. Push FUNC 6 r Push [ENT] (or [CLR]) to set and Timer scan exit SET MODE.

37 SCAN OPERATION 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 38 Priority watch Priority watch checks for signals on "priority channels" while operating on a VFO frequency. D Memory scan watch While operating on a VFO frequency, memory scan watch monitors for signals in each memory channel in sequence, every 5 sec. q Push [MR] to select memory mode, if necessary. · "X" appears. D Memory or call channel watch While operating on a VFO frequency, memory or call channel watch monitors for signals in the selected memory or call channel every 5 sec.

q Select the desired memory channel or the call channel. w Push [CLR] to select VFO mode. e Push [FUNC], then push [PRIO](7) to start watching. · VFO is displayed, then the decimal point ".", on the frequency readout blinks. · The priority channel is monitored every 5 sec. · When the signal is detected on the priority channel, the watching is suspended according to the setting of the scan resume condition. VFO frequency Memory channel w Push [FUNC], then push [SCAN](5) to start the memory scan. e Push [FUNC], then push [PRIO](7) to start the watching. · VFO is displayed, then the decimal point "

", on the frequency readout blinks. · When the signal is detected on the priority channel, the watching is suspended according to the setting of the scan resume condition. VFO frequency Mch 3 Mch 2 Mch 1 Memory scan Priority channel Mch 4 Mch 5 Mch 6 5 sec. 5 sec. 50 msec. Mch 99 SKIP 50 msec. r Push [CLR] to stop watching. r Push [CLR] to stop the watching. 9 SUBAUDIBLE TONES Tone squelch D Operation The tone squelch opens only when receiving a signal containing a matching subaudible tone. You can wait for calls from group members using the same tone and not hear other signals.

q Set the operating frequency. · Set the volume and squelch to the desired level as the normal operation. NOTE: The transceiver has 50 tone frequencies and consequently their spacing is narrow compared to units having 38 tones. Therefore, some tone frequencies may receive interference from adjacent tone frequencies. To prevent interference from adjacent tone frequencies, using the frequencies as in the following table, is recommended.

· Recommended CTCSS frequencies 67.0 69.3 71.9 74.4 77.
0 79.7 82.5 85.4 88.5 91.5 94.8 97.4 100.0 103.5 107.

2 110.9 114.8 118.8 123.0 127.3 131.8 136.5 141.3 146.2 151.
4 156.7 162.2 167.9 173.8 179.

9 w Set the desired subaudible tone in SET MODE. · See page 40 for programming. (Unit: Hz) 186.2 192.8 203.

5 210.7 218.1 225.7 233.6 241.8 250.3 e Push [FUNC], then push [TONE](1). · Repeat several times until " " appears when selecting CTCSS, or " D " appears when selecting DTCS. Push A FUNC TONE 1 CTCSS DTCS · Recommended DTCS codes 023 025 026 031 032 043 047 051 054 065 071 072 073 074 114 115 116 125 131 132 134 143 152 155 156 162 165 172 174 205 223 226 242 244 245 251 261 263 265 271 306 311 315 331 343 346 351 364 365 371 411 412 413 423 431 432 445 464 465 503 506 516 532 546 565 606 612 624 627 631 632 654 662 664 703 712 723 731 732 734 743 754 r When the received signal includes a matching tone, squelch opens and the signal can be heard. · When the received signal's tone does not match, tone squelch does not open, however, the S-indicator shows signal strength.

· To open the squelch manually, push and hold [MONI]. t Transmit in the normal way. y To cancel the tone squelch, push [FUNC] and [TONE](1). · Repeat several times until " " or " D " disappears. 39 SUB AUDIBLE TONES D Setting subaudible tones for tone squelch operation Separate tone frequencies can be select for tone squelch operation rather than repeater operation (the same range of tones is available-- see right below). Like the repeater tones, these are set in SET MODE. q Select VFO or memory channel. w Push [FUNC], then push [SET](8) to enter SET MODE. Y Z e Push [Y] or [Z] several times until " Ct " appears when selecting CTCSS, or " dt " appears when selecting DTCS. · " " blinks when selecting CTCSS, or " D " blinks when selecting DTCS.

9 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 40 When SET MODE is selected from memory mode. The tone squelch frequency is not stored in the selected memory channel unless you follow steps y and u. y Push [FUNC], then push and hold [MR] for 1 sec. to transfer the contents to VFO. · 3 beeps are emitted.

· VFO mode is selected automatically. u Push [FUNC], then push and hold [MR] for 1 sec. · 3 beeps are emitted. · Available CTCSS tone frequency 67.0 69.
3 71.9 74.4 77.0 79.7 82.5 85.4 88.5 91.5 94.8 97.

4 100.0 103.5 107.2 110.9 114.8 118.8 123.0 127.3 131.8 136.
5 141.3 146.2 151.4 156.7 159.
8 162.2 165.5 167.9 171.3 173.
8 177.3 179.9 183.5 186.2 189.9 192.8 196.6 199.5 203.5 206.

5 (unit: Hz) 210.7 218.1 225.7 229.1 233.6 241.8 250.3 254.1 CTCSS DTCS r Rotate [VOL] to select the desired subaudible tone. t Push [ENT] (or [CLR]) to program the selected tone and exit SET MODE.

· The recommended CTCSS frequencies or DTCS codes are shown at previous page. · Available DTCS codes 023 025 026 031 032 036 043 047 051 053 054 065 071 072 073 074 114 115 116 122 125 131 132 134 143 145 152 155 156 162 165 172 174 205 212 223 225 226 243 244 245 246 251 252 255 261 263 265 266 271 274 306 311 315 325 331 332 343 346 351 356 364 365 371 411 412 413 423 431 432 445 446 452 454 455 462 464 465 466 503 506 516 523 526 532 546 565 606 612 624 627 631 632 654 662 664 703 712 723 731 732 734 743 754 9 SUBAUDIBLE TONES Pocket beep operation This function listens for subaudible tones and can be used as a "common pager" to inform you that someone has called when you were away from the transceiver.



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t When a signal with the matching tone is received, the transceiver emits beep tones and blinks " " . Beep tones sound for 30 sec. and " " blinks. To stop the beeps manually, push any key. " " continues blinking until step y is operated. D Waiting for a call from a specific station q Set the operating frequency. w Set the desired CTCSS tone frequency or DTCS code in SET MODE. · See p. 40 for programming details. e Push [FUNC], then push [TONE](1). · Repeat several times until " " appears when CTCSS, or " D " appears when DTCS is selected. Push A FUNC TONE CTCSS y Push [PTT] to answer. DTCS : " " disappears and cancels the pocket beep function automatically. 1 CTCSS DTCS r Push [FUNC], then push [P.BEEP](2) to activate the pocket beep function. · " " appears. Push A FUNC P.BEEP 2 CTCSS DTCS 41 SUB AUDIBLE TONES 9 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 42 Tone scan By monitoring a signal on a repeater, or using pocket beep or tone squelch function, you can determine the tone frequency necessary to access a repeater or open the squelch.

q Set the frequency to be checked for a tone frequency or code. w Push [FUNC], then push [TONE](1). · Repeat several times to select the type of tone to be scanned. (One of " , " " or " D " appears) · Tone scan may be used even if the tone condition or type is not selected. A TONE r When the CTCSS tone frequency or DTCS code is matched, the squelch opens and the tone frequency or code is temporarily programmed into the selected mode such as memory or call channel. · The tone scan pauses when a CTCSS tone frequency or 3-digit DTCS code is detected. · The decoded CTCSS tone frequency or 3-digit DTCS code is used for the tone encoder or tone encoder/decoder depending on the selected tone condition or type in step w. - No indication : Cannot be used for operation. - " " : CTCSS tone encoder - " " : CTCSS tone encoder/decoder - "D " : DTCS tone encoder/decoder Push FUNC 1 e Push [FUNC], then push [T.SCAN](3) to start the tone scan.

YZ · To change the scanning direction, push [Y] or [Z]. A T.SCAN i Push [CLR] to stop the scan. Push FUNC 3 10 PAGER/CODE SQUELCH Requires Optional UT-108 Pager function This function uses DTMF codes for paging and can be used as a "message pager" to confirm you of a caller's identification even when you leave the transceiver temporarily unattended. Pager selective code (push [PTT]) Code programming D Before programming The pager and code squelch functions require ID codes and a group code.

These codes are 3-digit DTMF codes and must be written into the code channels before operation. q Decide the ID code of each transceiver and a group code for your group. w Decide whether you want to return to normal operation or code squelch operation after a connection is made. e Program the ID code, group code and transmit codes (other station's codes) as below. Beep Beep Beep Answer back (manual) D Code channel assignment ID OR CODE CHANNEL GROUP CODE NUMBER "RECEIVE ACCEPT" OR "RECEIVE INHIBIT" "Receive accept" only "Receive inhibit" should be programmed in each channel.

"Receive accept" must be programmed in one channel. "Receive inhibit" only. eep pB Bee Beep Your ID code Other parties' ID code Group code Memory space* 0 16 P Set both transceivers to either code squelch or non-coded operation Communication *Channel CP automatically memorizes an ID code when receiving a pager call. The contents in channel CP cannot be changed manually. 43 Optional UT-108 is required when using the pager/code squelch functions. PAGER/CODE SQUELCH D Code programming Your ID code MUST be programmed into code channel C0. Up to 6 transmit codes (codes that you transmit) are programmable into code channels, C1 to C6, if required. q Push [FUNC], then push [OPT](0) to enter MODE. OPTION SET 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 44 y Enter the desired 3-digit transmit code via the keypad. · Rotate [VOL] to select "dtm.

PG" or "dtm.CS," if "dtm.OF" appears. u Push [FUNC], then push [SKIP](6) to set the channel to "receive inhibit" or "receive accept." · When "receive inhibit" is set, "SKIP" appears as below. · Code channel C0 cannot be set as "receive inhibit." · See the table for "receive accept" and "receive inhibit" details (p. 43). or w Push and hold [OPT](0) for 1 sec. to enter the code selection mode.

· One of either "CP" or "C0" to "C6" blinks. · "C0" is your ID code and "C1" to "C6" are transmit codes. i Repeat steps t and y to set additional transmit code channels, if desired. o Push [ENT] (or [CLR]) to exit code selection mode. · Receive accept/receive inhibit "Receive accept" ("SKIP" indicator does not appear) accepts pager calls when the transceiver receives a signal with a code the same as that in the code channel.

"Receive inhibit" ("SKIP" indicator appears) ignores calls even when the transceiver receives a code the same as that in the code channel. Transmit codes should therefore be programmed for "receive inhibit," otherwise the transceiver will not reject unnecessary calls. YZ e Rotate [VOL] (or push [Y]/[Z]) to select code channel C0. · Each transceiver should have a different ID code. r Enter the desired 3-digit ID code via the keypad.

t Rotate [VOL] (or push YZ [Y]/[Z]) to select a transmit code channel from C1 to C6. 10 PAGER/CODE SQUELCH Pager operation D Calling a specific station q Program the code channel in advance (p. 44). w Set the operating frequency. · Set the volume and squelch to the desired level as in normal operation. u After confirming a connection, push [FUNC] and [OPT](0) to enter OPTION SET MODE, then rotate [VOL] to select the code squelch operation "dtm.CS," or non-selective calling system "dtm.OF." · DO NOT push any digit keys while code channels C0 to C6 are displayed, otherwise code channel contents will be changed. e Push [FUNC], then push [OPT](0).

· Rotate [VOL] to select "dtm.PG," if "dtm.CS" or "dtm.OF" appears. A OPT i Communicate with the other party as normal: push [PTT] to transmit; release to receive. Push FUNC 0 D Waiting for a call from a specific station q Set the operating frequency. w Push [FUNC], then push [OPT](0). Rotate [VOL] to select "dtm.PG," if "dtm.CS" or "dtm.OF" appears. Push [ENT] (or [CLR]) to return to previous mode.



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