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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-2200H. You'll find the answers to all your questions on the ICOM IC-2200H in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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INSTRUCTION MANUAL

VHF TRANSCEIVER

**IC-2200H**



Icom Inc.



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**Manual abstract:**

" Many hours of research and development went into the design of your IC-2200H. **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-2200H. **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** 65 W\* -- high transmit output power (except Korea/Taiwan versions) Tone squelch, DTCS squelch standard Dual color (amber & green) LCD backlight Remote control microphone available (optional for some versions) Optional Digital modulator/demodulator 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 PRECAUTION 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) **NEVER** place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury. **DO NOT** push the PTT when not actually desiring to transmit. @ @ @ @ @ **NEVER** connect the transceiver to an AC outlet. @ @ **NEVER** operate the transceiver while driving a vehicle.

Safe driving requires your full attention--anything less may result in an accident. connect the transceiver to a power source of more than 16 V DC. This will ruin the transceiver. **BE CAREFUL!** The transceiver will become hot when operating it continuously for long periods. **NEVER NEVER AVOID** placing the transceiver against walls or putting anything on the top of the transceiver.

This will obstruct heat dissipation. connect the transceiver to a power source using reverse polarity. This will ruin the transceiver. **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 ii may result in an electric shock or ruin the transceiver. **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).

**AVOID** the use of chemical agents such as benzine or alcohol when cleaning, as they can damage the transceiver's surfaces. **USE** Icom microphones only (supplied or optional). Other manufacturer's microphones have different pin assignments and may damage the transceiver if attached. **SUPPLIED ACCESSORIES AND OPTIONS** Supplied Accessories q Microphone (HM-133V)\* . . . . .

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. . . . . 1 \*HM-118TN DTMF MICROPHONE supplied versions are also available. Some versions are not supplied with a hand microphone. Depending on version. Used for optional unit installation, see p.91 for details.

Options UT-108 DTMF DECODER UNIT UT-118 DIGITAL UNIT HM-118TAN/TN DTMF MICROPHONES HM-118N HAND MICROPHONE HM-133V REMOTE-CONTROL MICROPHONE SP-10 EXTERNAL SPEAKER OPC-440/OPC-647 MIC EXTENSION CABLES OPC-441 SPEAKER EXTENSION CABLE OPC-1132/OPC-347 DC POWER CABLES OPC-589 ADAPTER CABLE CS-2200H CLONING SOFTWARE + OPC-478/OPC-478U CLONING CABLE OPC-474 CLONING CABLE q w e r t y u iii TABLE OF CONTENTS FOREWORD .....

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w Push [FUNC] then [CLR A(MW)]. · "M" indicator and memory channel number blink.

1. Setting a frequency In VFO mode, set the desired operating frequency with repeater, tone and tuning steps, etc. 2. Selecting a memory channel Momentarily push [S.MW MW ], then rotate [DIAL] to select the desired memory channel. · "M" indicator and memory channel number blink. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Push then , DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz YZ e Push [Y]/[Z] to select the desired memory channel. r Push [FUNC] then push [CLR A(MW)] for 1 sec. to program. · 3 beeps sound · Memory channel number automatically increases when continuing to push [CLR A(MW)] after programming.

SET MONI LOW TONE M/CALL V/ MHz [S.MW MW ] [DIAL] 3. Writing a memory channel Push and hold [S.MW MW ] for 1 sec. to program. · 3 beeps sound · Memory channel number automatically increases when continuing to push [S.MW MW ] after programming. VI 1 q w PANEL DESCRIPTION Front panel Function display (p. 3) PWR S.MW MW !3 e BANK OPT r t y u i o !0 !1 !2 q POWER KEY [PWR] Turns power ON and OFF when pushed for 1 sec. w MEMORY WRITE KEY [S.MW MW ] (p. 25) Selects a memory channel for programming. Programs the selected memory channel when pushed for 1 sec. · Continue to hold the key to increment the memory channel automatically.

e MICROPHONE CONNECTOR Connects the supplied microphone. r VOLUME CONTROL [VOL] (p. 13) Adjusts the audio level. t SQUELCH CONTROL [SQL] (p. 13) Varies the squelch level.

· The RF attenuator activates and increases the attenuation when rotated clockwise to the center position and further. 1 PANEL DESCRIPTION y SET-LOCK KEY [SET LOCK ] Enters set mode when pushed. (p. 74) Keys the lock function ON and OFF when pushed for 1 sec. (p. 12) u MONITOR-CHANNEL NAME KEY [MONI ANM ] Push to switch the monitor function ON and OFF. (p. 13) In memory and call channel mode, switches the channel names or number ON and OFF. (p. 29) i OUTPUT POWER-DUPLEX KEY [LOW DUP ] Each push changes the output power selection.

(p. 16) Select DUP, DUP+ and simplex operation when pushed for 1 sec. (p. 17) o TONE-TONE SCAN KEY [TONE T-SCAN ] While in the analog (FM) mode operation. Each push selects a tone function. (pgs. 17, 48) · Tone encoder, pocket beep, tone squelch or tone function OFF can be selected. 1 1 !0 MEMORY/CALL-PRIORITY KEY [M/CALL PRIO ] Push to select and toggle memory, call and weather channel\* modes. (pgs. 24, 35, 83) Starts priority watch when pushed for 1 sec.

(p. 44) !1 VFO/MHz TUNING-SCAN KEY [V/MHz SCAN ] Selects and toggles VFO mode and 1 MHz (or 10 MHz for some versions) tuning when pushed. (p. 9) Starts scan when pushed for 1 sec. (p.

38) · Cancels a scan when pushed during a scan. \*Weather channels available for USA versions only. !2 BANK-OPTION KEY [BANK OPT ] Push to select memory bank condition during memory mode. (p. 32) Push for 1 sec.

to enter the DTMF or option set mode. !3 TUNING DIAL [DIAL] Selects the operating frequency (p. 9), memory channel (p. 24), the setting of the set mode item and the scanning direction (p. 38). D Microphone connector (front panel view) q +8 V DC output (Max. 10 mA) w Channel up/down e 8 V control IN r PTT q i t GND (microphone ground) y MIC (microphone input) u GND i Data IN 2 Push for 1 sec. to start/stop the tone scan function. (p. 51) While in the digital mode operation with the installing an optional Digital unit UT-118.

Each push select the digital code (CSQL) squelch function, call sign (DSQL) squelch, pocket beep function (CSQL or DSQL). (p. 67) 1 PANEL DESCRIPTION Function display !7 q w e r t y !6 !5 !4 !3 !2 !1 DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN !0 o i u SET MONI LOW TONE M/CALL V/ MHz q FREQUENCY READOUT Shows the operating frequency, channel names, set mode contents, etc. · Frequency decimal point flashes while scanning. (p. 38) · "d" appears in place of the 1st digit while the DTMF memory function is in use. (p. 45) e AUDIO MUTE INDICATOR (p. 14) Appears when the audio mute function is activated via microphone control. r NARROW MODE INDICATOR (p. 78) Appears when the narrow mode is selected. Narrow mode is not available with some versions. t OUTPUT POWER INDICATORS (p. 16) "LOW" appears when low output power; "MID" and "LOW" appear when mid low output power; "MID" appears when middle output power is selected. · Mid low power is not available with some versions. w TRANSMIT INDICATOR Appears while transmitting. (p. 15) Flashes while transmitting with the one-touch PTT function. (p.

16) 3 PANEL DESCRIPTION y KEY INDICATORS Indicate the function(s) of the front panel keys directly below the function display. u SKIP INDICATOR (p. 41) Appears when the selected memory channel is specified as a skip channel. i MEMORY CHANNEL NUMBER INDICATORS Shows the selected memory channel number. (p. 24) "C" appears when the call channel is selected. (p. 35) o MEMORY INDICATOR (p. 24) Appears when memory mode is selected. !0 S/R F INDICATORS Shows the relative signal strength while receiving signals.

(p. 13) Shows the output power level while transmitting. (p. 16) !1 BUSY INDICATOR (p. 13) Appears when a signal is being received or the squelch is open. Flashes while the monitor function is activated. !2 AUTO POWER-OFF INDICATOR (p. 81) Appears while the auto power-off function is in use. !3 PRIORITY WATCH INDICATOR (p. 44) Appears while the priority watch is activated; blinks while the watch is paused.

!4 DIGITAL INDICATOR (p. 61) Appears when digital mode is selected. !5 LOCK INDICATOR (p. 12) Appears when the lock function is activated. 1 1 !6 TONE INDICATORS While in the analog (FM) mode operation.

" " appears while the subaudible tone encoder is in use. (p. 17) " " appears while the tone (CTCSS) squelch function is in use. (p. 48) " " appears while the tone (DTCS) squelch function is in use.

(p. 48) " " appears with the " " or " " indicator while the pocket beep function (CTCSS or DTCS) is in use. (p. 48) While in the digital mode operation with the installing an optional Digital unit UT-118. " " appears while the digital code (CSQL) squelch function is in use. (p. 67) " " appears while the call sign (DSQL) squelch function is in use. (p. 67) " " appears with the " " or " " indicator while the pocket beep function (CSQL or DSQL) is in use. (p.

67) !7 DUPLEX INDICATORS (p. 17) "+" appears when plus duplex, "-" appears when minus duplex operation is selected. 4 1 PANEL DESCRIPTION Rear panel q w e r q SPEAKER JACK [SP] Accepts an 8 speaker.



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· Audio output power is more than 2.4 W. e POWER RECEPTACLE [DC13.8V] Accepts 13.8 V DC  $\pm 15\%$  with the supplied DC power cable. NOTE: DO NOT use a cigarette lighter socket as a power source when operating in a vehicle. The plug may cause voltage drops and ignition noise may be superimposed onto transmit or receive audio.

r ANTENNA CONNECTOR [ANT] Connects a 50 antenna with a PL-259 connector and a 50 coaxial cable. When making the connection between your transceiver and PC or other device, ensure that the correct connections are made otherwise data communications may fail. w DATA JACK [DATA] Connects to a PC or GPS receiver via an RS-232C cable (D-sub 9-pin) for data communication in the RS-232C format. RS-232C (DB-9 female) to [DATA] jack Tx D GND Rx D 2.5(d) mm 5 1 9 6 Pin 2 (Rx D), Pin 3 (Tx D), Pin 5 (GND) 5 PANEL DESCRIPTION 1 1 Microphone (HM-133V\*) q w e r t ! ! 0 o i u y Mic element e UP/DOWN KEYS [Y]/[Z] Push either key to change operating frequency, memory channel, set mode setting, etc.

(pgs. 10, 24) Push either key for 1 sec. to start scanning. (p. 38) r ACTIVITY INDICATOR Lights red while any key, except [FUNC] and [DTMF-S], is pushed, or while transmitting.

Lights orange while the microphone keypad lock function is activated. Lights green while the one-touch PTT function is in use. t KEYPAD (pgs. 7, 8) y FUNCTION INDICATOR Lights orange while [FUNC] is activated--indicates the secondary function of keys can be accessed. Lights green when [DTMF-S] is activated--DTMF signals can be transmitted with the keypad. u FUNCTION KEY [FUNC] (pgs. 7, 8) i DTMF MEMORY SELECT KEY [DTMF-S] (p. 46) o FUNCTION KEYS [F-1]/[F-2] (p. 84) Program and re-call your desired transceiver conditions. !0 BANK/OPTION KEY [BANK/OPTION] Push to select memory bank condition during memory mode.

(p. 32) Push for 1 sec. to enter the DTMF or option set mode. !1 MEMORY/CALL KEY [MR/CALL] Push to select memory mode. (p. 24) Push for 1 sec. to select call channel. (p. 35) \*A different microphone may be supplied depending on version. q VFO/LOCK KEY [VFO/LOCK] Push to select VFO mode.

(p. 9) Push for 1 sec. to switch the lock function ON and OFF. (p. 12) w PTT SWITCH Push and hold to transmit; release to receive.

Switches between transmitting and receiving while the one-touch PTT function is in use. (p. 16) 6 1 PANEL DESCRIPTION Microphone keypad KEY FUNCTION SECONDARY FUNCTION (+key) OTHER FUNCTIONS Switches between opening and closing the In memory mode switches the channel names squelch. (p. 13) or number indication ON and OFF.

(p. 30) Starts and stops scanning. Starts and stops priority watch. Selects high output power. Selects mid. output power. Selects low output power Selects minus duplex operation. Selects plus duplex operation. Selects simplex operation. No primary function.

(p. 38) Starts and stops tone scanning. (p. 51) (p. 44) Turns the one-touch PTT function ON and OFF. (p. 16) (p. 16) Turns the DTCS squelch ON. \*Turns the DSQL function. (p.

16) (p. 16) (p. 18) (p. 18) : (p. 50) After pushing (p.

67) Transmits the Turns the DTCS pocket beep function ON. (p. 49) appropriate DTMF code. (pgs. 20, 46) \*Turns the DSQL pocket beep function.

When the DTMF memory enTurns the DTMF memory encoder function coder is activated, push [0] to ON. (p. 45) [9] to transmit the appropriate Turns the subaudible tone encoder ON. DTMF memory contents. (p. 18) (p. 46) Turns the CTCSS pocket beep function ON.(p. 49) \*Turns the CSQ pocket beep function. (p.

18) Turns the tone squelch function ON. (p. 50) \*Turns the CSQ function. (p. 67) Sends a 1750 Hz tone signal while pushing and holding. (p. 20) \*While in the digital mode operation with the installing an optional Digital unit UT-118. 7 PANEL DESCRIPTION 1 1 KEY FUNCTION SECONDARY FUNCTION (+key) OTHER FUNCTIONS Cancels frequency entry. (p. 10) Selects a memory channel for programming.

(p. 26) Cancels the scan or priority watch. (pgs. 38, 44) Advances the memory channel number when continuously pushed after pro Exit set mode. (p.

74) gramming is completed. (p. 26) Enters set mode (p. 74) DTMF memory OFF. Advances the set mode selection order after entering set mode.

(p. 74) (p. 46) Turns the subaudible tone encoder, pocket Sets the keypad for numeral input. (p. 10) beep or CTCSS/DTCS tone squelch OFF. After pushing : (pgs. 18, 49, 50) Transmits the appropriate Reverses the set mode selection order after entering set mode. (p. 74) \*Turns the pocket beep or CSQ/DSQ OFF. (p.

63) DTMF code. (pgs. 20, 46) Adjusts the squelch level increments. Mutes the audio. (p. 14) (p. 13) · Mute function is released when any operation is performed. No primary function. Sends a 1750 Hz tone signal for 0.5 sec.

(p. 20) Locks the digit keys on the keypad (includAdjusts the squelch level decrement. (p. 12) (p. 13) ing the A to D, # and M keys.

· Lights orange while the microphone keypad lock function is activated. \*While in the digital mode operation with the installing an optional Digital unit UT-118. 8 2 SETTING A FREQUENCY Using the tuning dial q Rotate [DIAL] to set the frequency. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Preparation D Turning power ON/OFF Push [PWR] for 1 sec. to turn power ON and OFF.

Push [PWR] for 1 sec. SET MONI LOW TONE M/CALL V/ MHz [DIAL] · If VFO mode is not selected, push [V/MHz SCAN ] to select VFO mode. · The frequency changes according to the selected tuning steps. (p. 11) D VFO mode selection The transceiver has 2 basic operating modes: VFO mode and memory mode. Push [V/MHz SCAN ] to select VFO mode. wTo change the frequency in 1 MHz (10 MHz for some versions) steps, push [V/MHz SCAN ], then rotate [DIAL]. DIGITAL PRIO AO BUSY MUTE NAR MID LOW DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz · Pushing [V/MHz SCAN ] for 1 sec. starts scan function. If scan starts, push [V/MHz SCAN ] again to cancel it.

SET MONI LOW TONE M/CALL V/ MHz The display shows that the 1 MHz tuning step is selected. Push [VFO/LOCK] to select VFO mode. VFO/LOCK Note that in this manual, sections beginning with a microphone icon (as above), designate operation via the HM133V microphone. 9 SETTING A FREQUENCY 2 Using the keypad The frequency can be directly set via numeral keys on the microphone. z Push [VFO/LOCK] to VFO mode, if necessary. ENT x Push [ENT C(T-OFF)] to activate the keypad for C digit input. Using the [Y]/[Z] keys Y Z Push [Y] or [Z] to select the desired frequency. YZ YZ · Pushing [Y]/[Z] for 1 sec. activates a scan. If scan YZ starts, push [Y]/[Z] again or push [CLR A(MW)] to cancel it.

2 c Push 6 keys to input a frequency. · When a digit is mistakenly input, push [ENT C(T-OFF)] to clear the input, then repeat input from the 1st digit. · Pushing [CLR A(MW)] clears input digits and retrieves the frequency.



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[EXAMPLE]: Setting frequency to 145.3625 MHz.

DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Push SET MONI LOW TONE M/CALL V/ MHz DIGITAL PRIO AO BUSY Push Push MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz DIGITAL PRIO AO BUSY Push MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz 10 2 SETTING A FREQUENCY Tuning step selection Tuning steps are the minimum frequency change increments YZ when you rotate [DIAL] or push [Y]/[Z] on the microphone. The following tuning steps are available. · 5 kHz · 20 kHz · 10 kHz · 25 kHz · 12.5 kHz · 30 kHz · 15 kHz · 50 kHz VFO/LOCK USING SET MODE NOTE: For convenience, select a tuning step that matches the frequency intervals of repeaters in your area. q Push [V/MHz SCAN ] to select VFO mode, if necessary.

[DIAL] 15 kHz tuning step DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN z Push [VFO/LOCK] to select VFO mode, if necessary. x Push [SET B(D-OFF)] to enter set mode. c Push [SET B(D-OFF)] or [ENT C(T-OFF)] several times until "TS" appears. Y Z v Push [Y] or [Z] to select the desired tuning step. b Push [CLR A(MW)] to exit set mode. SET MONI LOW TONE M/CALL V/ MHz w Push [SET LOCK ] to enter set mode. e Push [SET] or [MONI] several times until "TS" appears as shown at left. r Rotate [DIAL] to select the desired tuning step. t Push any key other than indicated function keys to exit set mode. 11 SETTING A FREQUENCY 2 Lock functions To prevent accidental channel changes and unnecessary function access, use the lock function.

The transceiver has 2 different lock functions. D Microphone keypad lock This function locks the microphone keypad. 16KEY-L Z Push [FUNC] then [SQLZ # (16KEY-L)] to switch the microphone keypad lock function ON and OFF. 2 D Frequency lock This function locks [DIAL] and keys electronically and can be used together with the microphone lock function. Push [SET LOCK ] for 1 sec. to turn the lock function ON and OFF. Appears DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz · [PTT], [MONI ANM ], [VOL] and [SQL] can be used while the channel lock function is in use. Also, TONE-1, TONE-2, DTMF tones or DTMF memory contents can be transmitted from the microphone. · Lights orange while the microphone keypad lock function is activated. · [PTT], [VFO/LOCK], [MR/CALL], [BANK/OPY Z TION], [Y], [Z], [F-1], [F-2], [DTMF-S] and [FUNC] on the microphone can be used.

· All keys on the transceiver can be used. · The keypad lock function is released when the power is turned OFF then ON again. VFO/LOCK Push [VFO/LOCK] for 1 sec. to switch the lock function ON and OFF. 12 3 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 [MONI ANM ] to open the squelch. · "BUSY" blinks. · Push [MONI ANM ] again to cancel the function. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Receiving q Push [PWR] for 1 sec. to turn power ON. w Set the audio level. Push [MONI ANM ] to open the squelch. Rotate the [VOL] control to adjust the audio output level. Push [MONI ANM ] again to close the squelch. e Set the squelch level. Rotate [SQL] fully counterclockwise in advance. Rotate [SQL] clockwise until the noise just disappears. When interference is received, rotate [SQL] clockwise again for attenuator operation. (p. 14) r Set the operating frequency.

(pgs. 9, 10) t When receiving a signal on the set frequency, squelch opens and the transceiver emits audio. Appears when receiving a signal. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz · "BUSY" appears and the S/RF indicator shows the relative signal strength for the received signal. Push [MONI 1(ANM)] to open the squelch. MONI 1 · Push [MONI 1(ANM)] again to cancel the function. SET MONI LOW TONE M/CALL V/ MHz CONVENIENT! The squelch level can also be adjusted with SQLY [SQLY D(MUTE)] and [SQLZ # (16KEY-L)]. Y Z D DIGITAL PRIO AO BUSY SQLZ # MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN NOTE: When [SQL] adjustment is set too far clockwise, (12/7 o'clock position) the squelch attenuator is activated. To monitor weak signals on the operating frequency, deactivate the squelch attenuator function. See p.

82 for details. SET MONI LOW TONE M/CALL V/ MHz 13 BASIC OPERATION 3 Audio mute function This function temporarily mutes the audio without disturbing the volume setting. MUTE Squelch attenuator The transceiver has an RF attenuator related to the squelch level setting. Approx. 10 dB attenuation is obtained at maximum setting.

Rotate [SQL] clockwise past the 12 o'clock position to activate the squelch attenuator. · Attenuation level can be adjusted up to 10 dB (approx.) between 12 o'clock and fully clockwise position. · When setting the squelch from the microphone, a level greater than '19' activates the squelch attenuator. Noise squelch Squelch threshold Squelch is open.

Shallow Squelch attenuator 3 Push [FUNC] then audio signals. Y [SQLY D(MUTE)] to mute · "MUTE" appears. · Push [CLR A(MW)] (or any other key) to cancel the function. Appears DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz Deep NOTE: The squelch attenuator functions even when the monitor function is in use. Thus set the [SQL] within 10 to 12 o'clock position (12 to 19 level when setting with the HM-133V) is recommended when using the monitor function. 14 3 BASIC OPERATION S-meter squelch USING Transmitting INITIAL SET MODE CAUTION: Transmitting without an antenna will damage the transceiver. NOTE: To prevent interference, listen on the channel before transmitting by pushing [MONI ANM ], or [MONI 1(ANM)] on the microphone. q Set the operating frequency. (pgs. 9, 10) · Select output power if desired.

See section at right for details. The transceiver has an S-meter squelch. The S-meter squelch allows you to set minimum signal level needed to open the squelch. q Turn the transceiver power OFF. w While pushing [SET LOCK ], push [PWR] for 1 sec. to enter initial set mode. w Push and hold [PTT] to transmit. · "\$" appears. · The S/RF indicator shows the output power selection.



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· A one-touch PTT function is available.

See p. 16 for details. [PWR] [SET LOCK] e Speak into the microphone using your normal voice level. · DO NOT hold the microphone too close to your mouth or speak too loudly. This may distort the signal.

e Push [SET] or [MONI] to select "SSQ" (S-meter squelch) item. r Rotate [DIAL] to set the S-meter level or OFF. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN r Release [PTT] to return to receive. IMPORTANT! (for 65 W transmission): The IC-2200H is equipped with current detector circuit to protect the power amplifier circuit from high current flowing. When a high SWR (Standing Wave Ratio) antenna or no antenna is connected, or when the connected power supply's voltage includes, the transceiver reduces transmit output power to 1020 W (approx.

) automatically. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz S-meter squelch OFF (default) S2 level (2 indicator level) t Push [PWR] to exit initial set mode. 15 BASIC OPERATION

3 Selecting output power The transceiver has 4\* output power levels to suit your operating requirements. Low output powers during short-distance communications may reduce the possibility of interference to other stations and will reduce current consumption. \*The Taiwan version has only 3 levels. One-touch PTT function The PTT switch can be operated as a one-touch PTT switch (each push switches between transmit/receive). Using this function you can transmit without pushing and holding the PTT switch. To prevent accidental, continuous transmissions with this function, the transceiver has a time-out timer. See p. 80 for details.

z Push [FUNC] then [PRIO 3(PTT-M)] to turn the one-touch PTT function ON. · The activity indicator lights green. 3 Push [LOW DUP] several times to select the output power. S/R F INDICATOR High: Mid.: Mid. Low: Low: POWER OUTPUT Taiwan 65 W (50 W) 25 W\* 10 W\* 5 W\* 24 W 10 W\* NA 5 W\*

PTT-M x Push [PTT] to transmit and push again to receive. · Two beeps sound when transmission is started and a long beep sounds when returning to receive. · "\$" flashes when transmitting with the one-touch PTT function. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN \*approx., Korea version · The output power can be changed while transmitting.

The microphone can also be used to select output power. Push [HIGH 4(DTCS)] for high output power; HIGH S [MID 5(DTCS)] for middle output power 4 (push again for mid. low output power); and [LOW 6(DTMF)] for low output power. MID 5 · The output power can be changed via the microphone during receive only. SET MONI LOW TONE M/CALL V/ MHz c Push [FUNC] then [PRIO 3(PTT-M)] to turn the one-touch PTT function OFF.

· The activity indicator goes out. LOW 6 16 4 REPEATER OPERATION Accessing a repeater q Set the receive frequency (repeater output frequency). (pgs. 9, 10) w Push [LOW DUP] for 1 sec., once or twice, to select minus duplex or plus duplex.

· "" or "+" appears to indicate the transmit frequency for minus shift or plus shift, respectively. · When the auto repeater function is turned ON (available for the USA version only), steps w and e are not necessary. (p. 23) Either "" or "+" appears. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP

T-SCAN PRIO SCAN r Push and hold [PTT] to transmit. · The displayed frequency automatically changes to the transmit frequency (repeater input frequency). · If "OFF" appears, confirm that the offset frequency (p. 21) is set correctly. t Release [PTT] to receive. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz While receiving While transmitting SET MONI LOW TONE M/CALL V/ MHz e Push [TONE T-SCAN] several times to turn ON the subaudible tone encoder, according to repeater requirements.

· " " appears · 88.5 Hz is set as the default; refer to p. 19 for tone frequency settings. · When the repeater requires a different tone system, see p. 20. Appears DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN y Push [MONI ANM] to check whether the other station's transmit

signal can be received directly. u To return to simplex operation, push [LOW DUP] for 1 sec., once or twice, to clear the "" or "+" indicator. i To turn OFF the subaudible tone encoder, push [TONE T-SCAN] several times until no tone indicators appear. SET MONI LOW TONE M/CALL V/ MHz 17 REPEATER OPERATION z Set the receive frequency (repeater output frequency).

(pgs. 9, 10) x Push [DUP 7(TONE)] to select minus duplex; S push [DUP+ 8(TSQLS)] to select plus duplex. Push DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN 4 DUP 7 DUP+ 8 SIMP 9 m Push [SIMP 9(TSQL)] to return to simplex operation. · "+" or "" indicator disappears. · To turn OFF the subaudible tone encoder, push [FUNC] then [ENT C(T-OFF)].

4 SET MONI LOW TONE M/CALL V/ MHz Push DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz c Push [FUNC] then [DUP 7(TONE)] to turn ON the subaudible tone encoder according to repeater requirements. · Refer to p. 19 for the tone frequency setting. · When the repeater requires a different tone system, see p. 20.

Push then . , MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN DIGITAL PRIO AO BUSY SET MONI LOW TONE M/CALL V/ MHz v Push and hold [PTT] to transmit. b Release [PTT] to receive. n Push [MONI 1(ANM)] to check whether the other station's transmit signal can be received directly. 18 4

REPEATER OPERATION z Set the mode/channel you wish to set the subaudible tones to, such as VFO mode or memory/call channel. · The subaudible tone frequency is independently programmed into each mode or channel. Subaudible tones (Encoder function) D Subaudible tones USING SET MODE SET B q

Select the mode/channel you wish to set the subaudible tones to, such as VFO mode or memory/call channel. w Push [SET LOCK] to enter set mode. e Push [SET] or [MONI] several times until " " and "rt" appears; or until " " and "Ct" appears for tone squelch or pocket beep use. · When "d" is displayed in place of the 100 MHz digit, cancel the DTMF memory encoder in advance.

(p. 46) DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN x Push [SET B(D-OFF)] to enter set mode.



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c Push [SET B(D-OFF)] or [ENT C(T-OFF)] several times until " " and "rt" appears; or until " " and "Cr" appears for tone squelch or pocket beep use. · When "d" is displayed in place of the 100 MHz digit, cancel the DTMF memory encoder in advance. (p. 46) DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz Push SET MONI LOW TONE M/CALL V/ MHz r Rotate [DIAL] to select and set the desired subaudible frequency. t Push any key other than [SET] or [MONI] to exit set mode. NOTE: The subaudible tone encoder frequency can be set in a memory/call channel temporarily. However, the set frequency is cleared once another memory channel or VFO mode is selected. To store the tone frequency permanently, overwrite the channel information.

Y Z v Push [Y] or [Z] to select and set the desired subaudible tone frequency. YZ · Push and hold [Y]/[Z] to change the above tones continuously. b Push [CLR A(MW)] to exit set mode. · Subaudible tone frequency list 67.0 69.

3 71.9 74.4 77.0 79.7 82.

5 85.4 88.5 91.5 94.8 97.4 100.0 103.5 107.2 110.9 114.

8 118.8 123.0 127.3 131.8 136.5 141.3 146.2 151.4 156.7 159.

8 162.2 165.5 167.9 171.3 173.

8 177.3 179.9 183.5 186.2 189.

9 192.8 196.6 199.5 (unit: Hz) 203.5 206.5 210.7 218.1 225.7 229.1 233.

6 241.8 250.3 254.1 19 REPEATER OPERATION D DTMF tones Push [DTMF-S], then push the keys of the deDTMF-S sired DTMF digits. · The function indicator lights green. · 09, AD, M(E) and #(F) are available. · When "d" is displayed in place of the 100 MHz digit, cancel the DTMF memory encoder in advance. (p. 46) · Push [DTMF-S] again to return the keypad to normal function control. · The transceiver has 10 DTMF memory channels for autopatch operation.

See p. 45 for details. Push , then or . 4 D 1750 Hz tone The microphone has 1750 Hz tone capability, used for ring tone when calling, etc. z Push [FUNC]. TONE-1 · The function indicator lights orange. 4 M x Push [M(TONE-1)] to transmit a 1750 Hz tone call signal for 0.5 sec.; push and hold TONE-2 [O(TONE-2)] to transmit a 1750 Hz tone call signal for an arbitrary period. · The function indicator goes out automatically.

Push , then push desired keys. 20 4 REPEATER OPERATION Offset frequency USING SET MODE Repeater lockout USING When communicating thorough a repeater, the transmit frequency is shifted from the receive frequency by an amount determined by the offset frequency. q Push [SET LOCK ] to enter set mode. w Push [SET] or [MONI] until "±" and offset frequency appear. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN 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. q Push [PWR] to turn power OFF. w While pushing [SET LOCK ], turn power ON to enter initial set mode. SET MONI LOW TONE M/CALL V/ MHz [DIAL] e Rotate [DIAL] to set the desired offset frequency. · Push [V/MHz] to select the 1 MHz tuning steps.

r Push any key other than indicated function keys to exit set mode. SET B [PWR] [SET LOCK ] z Push [SET B(D-OFF)] to enter set mode. x Push [SET B(D-OFF)] or [ENT C(T-OFF)] until "±" and offset frequency appear. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN e Push [SET] or [MONI] several times until the "RLO" display appears as shown below. r Rotate [DIAL] to turn the repeater lockout function to "RP," "BU" or OFF. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz Push SET MONI LOW TONE M/CALL V/ MHz · "RP": Transmit is inhibited when a signal with un-matched subaudible tone is received. · "BU": Transmit is inhibited when a signal is received. Y Z c Push [Y] or [Z] to set the desired offset. · Direct frequency entry from the keypad is not possible. t Push [PWR] to exit initial set mode.

v Push [CLR A(MW)] to exit set mode. 21 REPEATER OPERATION 4 Reversed duplex mode USING SET MODE SET B 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 : 145.30 MHz Direction : (negative) Offset frequency : 0.

6 MHz Reversed Rx frequency Tx frequency OFF 145.30 MHz 144.70 MHz ON 144.70 MHz 145.30 MHz z Push [SET B(D-OFF)] to enter set mode.

x Push [SET B(D-OFF)] or [ENT C(T-OFF)] until "REV" appears. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN 4 Push SET MONI LOW TONE M/CALL V/ MHz q Push [SET LOCK ] to enter set mode. w Push [SET] or [MONI] several times until the "REV" display appears as shown below. e Rotate [DIAL] to turn the reversed duplex mode ON or OFF. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Y Z c Push [Y] or [Z] to set the reversed duplex mode ON and OFF. v Push [CLR A(MW)] to exit set mode. SET MONI LOW TONE M/CALL V/ MHz r Push any key other than [SET] or [MONI] to exit set mode. 22 4 REPEATER OPERATION Auto repeater (U.S.A.

version only) The USA version automatically activate the repeater settings (DUP or DUP+ and tone encoder ON/OFF) when the operating frequency falls within the general repeater output frequency range and deactivate them when outside of the range. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN USING INITIAL SET MODE r Rotate [DIAL] to turn the auto repeater function to "R1," "R2" or OFF. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN D Setting the auto repeater function ON/OFF q Push [PWR] to turn power OFF. w While pushing [SET LOCK ], turn power ON to enter initial set mode. SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz Auto repeater function is Auto repeater function is ON, turned OFF. tone encoder is ON. · "R1": auto repeater is ON, tone encoder is OFF. · "R2": auto repeater is ON, tone encoder is ON. t Push [PWR] to exit initial set mode. D Frequency range and offset direction [PWR] [SET LOCK ] Frequency range 145.

200145.495 MHz 146.610146.995 MHz 147.000147.

395 MHz Duplex direction "" appears "+" appears e Push [SET LOCK ] several times until the "RPT" display appears as shown above right.



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23 MEMORY OPERATION General description The transceiver has 207 memory channels including 6 scan edge memory channels (3 pairs), and 1 call channel. Each of these channels can be individually programmed with operating frequency (pgs. 9, 10), duplex direction (p. 17) and offset (p. 21), subaudible tone encoder or tone squelch and its tone frequency (pgs. 19, 4850) and skip information\* (p. 41). In addition, a total of 10 memory banks, A to J, are available for usage by group, etc. \*except for scan edge memory channels. 5 4 5 D Using the [Y]/[Z] keys z Push [MR/CALL] to select memory mode. MR/CALL x Push [Y] or [Z] to select and set the desired YZ memory channel. YZ YZ · Pushing [Y]/[Z] for 1 sec. activates a scan. YZ · If scan is activated, push [Y]/[Z] again or push [CLR A(MW)] to stop it.

D Using the keypad z Push [MR/CALL] to select memory mode. MR/CALL x Push [ENT C(T-OFF)] to activate the keypad YZ Memory channel selection D Using the tuning dial q Push [M/CALL PRIO ] once or twice to select memory mode. w Rotate [DIAL] to select Appears the desired memory channel. PRIO SCAN for numeral input. c Push 3 appropriate digit keys to input a channel number. · When inputting non-programmed channel numbers, the previous memory channel appears. · Push only 1 appropriate digit key, [MONI 1(ANM)], [SCAN 2(T-SCAN)] or [PRIO 3(PTT-M)], then push M Z [M(TONE-1)] or [SQLZ #(16KEY-L)] to select scan M edge channels. "M" and "#" can be used for "A" and "b" respectively. [DIAL] · "M" indicator appears. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN SET MONI LOW TONE M/CALL V/ MHz · Programmed memory channels only can be selected. 24 5 MEMORY OPERATION Programming a memory channel VFO settings, including the set mode contents such as subaudible tone frequency, etc., can be programmed into a memory channel. q Set the desired frequency in VFO mode. Push [V/ MHz SCAN ] to select VFO mode. Set the frequency using [DIAL].

Set other data (e.g. tone frequency, duplex information, etc.) if required. w Push [S. MW MW ] momentarily. · "M" indicator and the memory channel number blink. e Rotate [DIAL] to select the memory channel to be programmed. · Memory channels not yet programmed are blank. r Push [S.MW MW ] for 1 sec. to program. · 3 beeps sound. · Memory channel number automatically increases when continuing to push [S.MW MW ] after programming.

CONVENIENT Memory programming can be performed in versatile ways e.g. memory channel to the same (or different) memory channel, memory channel to the call channel, etc. [EXAMPLE]: Programming 145.870 MHz into memory channel 20 (blank channel) via the front panel. Push MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN ( ) SCAN S.MW MW V/ MHz Rotate DIGITAL PRIO AO BUSY for setting frequency, etc. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Push MUTE NAR MID LOW LOCK momentarily. DIGITAL PRIO AO BUSY ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz S.MW MW Rotate DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Push for 1 sec.

and continue to push MUTE NAR MID LOW LOCK ANM DUP T-SCAN " PRIO SCAN DIGITAL PRIO AO BUSY SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz " "Beep Beep " Beep " DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz 25 MEMORY OPERATION D Programming a memory channel via the microphone The microphone can also be used to program memMW ory channels. 5 z Set the desired frequency in VFO mode. Push [VFO/LOCK] to select VFO mode. Set the frequency using the keypad. Set other data (e.

g. offset frequency, duplex direction, subaudible tone encoder ON/OFF and its frequency), if necessary. x Push [FUNC] then [CLR A(MW)] momentarily. c Select the memory channel to be programmed. YZ Push [Y] or [Z] to select the memory channel (direct numeral input cannot be used).

v Push [FUNC] then [CLR A(MW)] for 1 sec. to program. 3 beeps may sound and the VFO contents (including the subaudible tone frequency, etc.) are programmed. Memory channel number increases when continuing to push [CLR A(MW)] after programming. 5 [EXAMPLE]: Programming 145.870 MHz into memory channel 20 (blank channel) via the microphone. Push DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN

Push DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Push MUTE NAR MID LOW LOCK then momentarily. DIGITAL PRIO AO BUSY ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz Push DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Push then 1 sec. and continue to push MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN DIGITAL PRIO AO BUSY SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz "Beep " Beep " Beep " DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz 26 5 MEMORY OPERATION Transferring memory contents This function transfers a memory channel's contents to VFO (or another memory/call channel).

This is useful when searching for signals around a memory channel frequency and for recalling the offset frequency, subaudible tone frequency etc. D Memory/callVFO q Select the memory/call channel to be transferred. Push [M/CALL PRIO ] to select memory mode, then rotate [DIAL] to select the desired memory channel. Push [M/CALL PRIO ] for 1 sec. to select the call channel. w Push [S.MW MW ] for 1 sec. to transfer the selected memory/call channel contents to the VFO. · VFO mode is selected automatically. MR/CALL MW [Y]/[Z] z Select the memory/call channel to be transferred.

Push [MR/CALL] to select memory mode, then select the desired memory channel YZ via [Y]/[Z] or keypad. Push [MR/CALL] for 1 sec. to select the call channel. x Push [FUNC], then [CLR A(MW)] for 1 sec. to transfer the selected memory/call channel contents to the VFO. · VFO mode is selected automatically. [EXAMPLE]: Transferring memory channel 30 contents to VFO. Front panel operation: (M/CALL) to select memory mode. Push PRIO Rotate MUTE NAR MID LOW for setting memory channel. DIGITAL PRIO AO BUSY S.

MW MW Push MUTE NAR MID LOW for 1 sec. DIGITAL PRIO AO BUSY DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN LOCK ANM DUP T-SCAN PRIO SCAN LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz HM-133V operation: Push to select memory mode.



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Select memory channel. Push then push for 1 sec. 27 MEMORY OPERATION D Memory/callcall/memory q Select the memory/call channel to be transferred. Push [M/CALL PRIO ] to select memory mode, then rotate [DIAL] to select the desired memory channel. Push [M/CALL PRIO ] for 1 sec. to select the call channel. w Push [S.MW MW ] momentarily.

· "M" indicator and " " indication blink, and shows VFO conditions. 5 MR/CALL MW [Y]/[Z] z Select the memory/call channel to be transferred. Push [MR/CALL] to select memory mode, then select the desired memory channel YZ via [Y]/[Z] or keypad. Push [MR/CALL] for 1 sec. to select the call channel. x Push [FUNC], then [CLR A(MW)] momentarily. · "M" indicator and " " indication blink, and shows VFO conditions. 5 e Rotate [DIAL] to select the target memory channel. · "C" blinks when the call channel is selected. · Scan edge channels, 1A/1b, 2A/2b, 3A/3b, can also be selected. r Push [S.MW MW ] for 1 sec. to transfer the selected memory/call channel contents to the target memory. · The targeted memory and transferred contents are indicated. YZ c Push [Y]/[Z] to select the target memory channel. · "C" blinks when the call channel is selected. · Scan edge channels can also be selected. · The keypad cannot be used for the selection. v Push [FUNC] then push [CLR A(MW)] for 1 sec. to transfer the selected memory/call channel contents to the target memory. · The targeted memory and transferred contents are indicated. [EXAMPLE]: Transferring memory channel 30 contents to channel 31. Front panel operation: S.MW Select the memory channel, then push . MW S.MW MW Select the target channel. DIGITAL PRIO AO BUSY MUTE NAR MID LOW Push MUTE NAR MID LOW for 1 sec. DIGITAL PRIO AO BUSY DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN AO BUSY PRIO SCAN LOCK ANM DUP T-SCAN PRIO SCAN LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW TONE M/CALL V/ MHz HM-133V operation: Select the memory channel, push then push . Push then push for 1 sec. 28 5 MEMORY OPERATION Programming channel names Each memory channel and the call channel can be programmed with an alphanumeric channel name for easy recognition and can be indicated independently by channel.

Names can be a maximum of 6 characters-- see the table below for available characters. (space) (1) (B) (L) (V) (+) (2) (C) (M) (W) ( ) (3) (D) (N) (X) (=) (4) (E) (O) (Y) ( ) (5) (F) (P) (Z) ( / ) (6) (G) (Q) ( ) (7) (H) (R) ( ) (8) (I) (S) (l) (9) (J) (T) (0) (A) (K) (U) r Push [SET LOCK ] to select the channel name programming condition. · Frequency readouts disappear. t Rotate [DIAL] to select the desired character. · The selected character blinks. y Push [SET] or [MONI] to move the cursor to left or right, respectively. u Repeat steps t and y until the desired channel names are displayed. i Push any key other than [SET] or [MONI] to program the name and exit the channel name programming condition. o Push [MONI ANM ] for 1 sec. to return to frequency indication if desired.

IMPORTANT!: Once channel name indication mode is selected, always access the channel name programming condition when [SET LOCK ] is pushed. When set mode accessing is necessary, cancel the channel name indication by pushing [MONI ANM ] for 1 sec., then access to set mode. Push ( SET ) or to move the cursor. LOCK q Push [M/CALL PRIO ] to select memory mode. w Rotate [DIAL] to select the desired memory channel. e Push [MONI ANM ] for 1 sec. to select channel name indication mode. · 1 short and 1 long beep sound. [EXAMPLE]: Programming "CLUB" into memory channel 1.

Select memory channel 15, then push (MONI) for 1 sec. ANM Rotate to select the character. MUTE NAR MID LOW ( ) ANM MONI DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN MUTE NAR MID LOW ANM DUP LOCK ANM DUP Repeat previous steps. Push any other keys than ( SET ) or (MONI) . LOCK ANM DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN LOCK SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW SET MONI LOW SET MONI LOW TONE M/CALL V/ MHz 29 MEMORY OPERATION Channel names can also be programmed via the microphone. z Select the memory/call channel to be assigned memory names. Push [MR/CALL] to select memory mode, then select YZ the desired memory channel via [Y]/[Z] or keypad. · Scan edge channels can also be selected. 5 Push [MR/CALL] for 1 sec. to select the call channel.

x Push [FUNC], then [MONI I(ANM)] momentarily. c Push [SET B(D-OFF)]. · Frequency readouts disappear. b Push [SET B(D-OFF)] or [ENT C(T-OFF)] to move the cursor to left or right, respectively. n Repeat steps v and b until the desired channel names are displayed. m Push [CLR A(MW)] to program the name and exit the channel name programming condition. , Push [FUNC], then push [MONI I(ANM)] to return to frequency indication if desired. 5 YZ v Push [Y]/[Z] to select the desired character. · The selected character blinks. [EXAMPLE]: Programming "CLUB" into memory channel 15.

Select memory channel 15, push , then push . DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN Push MUTE NAR MID LOW LOCK to select the character. Push or the cursor. MUTE NAR MID LOW to move Repeat previous steps. DUP Push MUTE NAR MID LOW LOCK ANM .

DIGITAL PRIO AO BUSY ANM DUP LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/ MHz SET MONI LOW SET MONI LOW SET MONI LOW TONE M/CALL V/ MHz 30 5 MEMORY OPERATION Memory clearing Contents of programmed memories can be cleared (blanked), if desired. q Push [V/MHz SCAN ] to select VFO mode. w Push [S.MW MW ] momentarily. · "M" indicator and the memory channel number blink. r Push [S.MW MW ] momentarily, then push [S.MW MW ] again for 1 sec. This operation must be performed within 1.5 sec. · 3 beeps sound, then the frequency is cleared. · "M" indicator blinks continuously. · When clearing the call channel, the current VFO conditions are re-programmed into the call channel automatically. e Rotate [DIAL] to select the memory channel to be cleared. · Memory channels not yet programmed are blank.

t Push any key, except [S.MW MW ], to return to VFO mode. NOTE: Be careful!-- the contents of cleared memories CANNOT be recalled. [EXAMPLE]: Clearing memory channel 20. Push MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN ( ) to select VFO. SCAN S.



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MW MW V/MHz Push MUTE NAR MID LOW LOCK momentarily. DIGITAL PRIO AO BUSY Rotate for selecting memory channel.. DIGITAL PRIO AO BUSY MUTE NAR MID LOW DIGITAL PRIO AO BUSY ANM DUP T-SCAN PRIO SCAN LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/MHz SET MONI LOW TONE M/CALL V/MHz SET MONI LOW TONE M/CALL V/MHz S.

MW MW S.MW MW S.MW MW Push momentarily, then push MUTE NAR MID LOW LOCK ANM DUP again for 1 sec. DIGITAL PRIO AO BUSY Push any other keys than . T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/MHz "Beep " Beep " Beep " DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/MHz 31 MEMORY OPERATION 5 Memory bank selection The IC-2200H has a total of 10 banks (A to J).

Regular memory channels, 0 to 199, are assigned into the desired bank for easy memory management. q Push [M/CALL PRIO ] to select memory mode. w Push [BANK OPT ] to select memory bank condition. · Bank initial blinks [DIAL] DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN z Push [MR/CALL] to select memory mode. BANK/OPTION x Push [BANK/OPTION] to select memory bank condition. · Bank initial blinks YZ c Push [Y]/[Z] to select the desired bank, A to J. · Only programmed memory bank can be selected. [Y]/[Z] 5 v Push [CLR A(MW)] to set the bank. · Initial stops blinking. SET MONI LOW TONE M/CALL V/MHz YZ b Push [Y]/[Z] to select the desired contents in the bank. · No channel numbers are displayed for memory bank operation. [BANK OPT ] e Rotate [DIAL] to select the desired bank, A to J. · Banks that have no programmed contents are skipped. r Push [BANK OPT ] to set the bank. · Initial stops blinking.

n To return to regular memory condition, push [BANK/OPTION] then [CLR A(MW)]. t Rotate [DIAL] to select the contents in the bank. · No channel numbers are displayed for memory bank operation. y To return to regular [BANK OPT ] twice. memory condition, push 32 5 MEMORY OPERATION Memory bank setting q Push [M/CALL PRIO ] to select memory mode, then select the desired memory channel via [DIAL]. w Push [SET LOCK ] enter the set mode. e Push [SET] or [MONI] several times until "BAK" appears. · " " indication blinks as follows. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN MR/CALL SET [Y]/[Z] MONI LOW TONE M/CALL V/MHz SET r Rotate [DIAL] to select the desired bank to be set. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN z Push [MR/CALL] then select the desired YZ memory channel via [Y]/[Z] or keypad.

x Push [SET B(D-OFF)] to enter set mode. c Push [SET B(D-OFF)] or [ENT C(T-OFF)] several times until "BAK" appears. YZ v Push [Y] or [Z] to select the desired bank to be set. b Push [CLR A(MW)] to set the channel into the bank and exit set mode. n Repeat steps z to b to set an another memory channel into the same or another bank.

SET MONI LOW TONE M/CALL V/MHz [DIAL] t Push any key other than [SET] or [MONI] to set the channel into the bank and return to regular memory condition. y Repeat steps q to t to set another memory channel into the same or another bank. 33 MEMORY OPERATION 5 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 [M/CALL PRIO ] to select memory mode. Push [BANK OPT ] then rotate [DIAL] to select the desired memory bank. · Bank initial blinks. y Repeat steps q to t for transferring or erasing an another banks contents. z Select the desired bank contents to be transferred or erased. Push [MR/CALL] to select memory mode. Push [BANK/OPTION], then select the deSET YZ sired memory bank via [Y]/[Z]. Push [CLR A(MW)] to select the bank then YZ select the desired contents via [Y]/[Z]. [Y]/[Z] x Push [SET B(D-OFF)] to enter set mode. c Push [SET B(D-OFF)] or [ENT C(T-OFF)] several times until "BAK" appears.

YZ v Push [Y]/[Z] to select the desired bank initial to transfer or erase. BANK · Select "-- --" indication when erasing the contents from the bank. 5 Push [BANK OPT ] to select the bank then rotate [DIAL] to select the desired contents. · Bank initial stops blinking. w Push [SET LOCK ] enter the set mode. e Push [SET] or [MONI] several times until "BAK" appears. · Bank initial appears. DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN SET MONI LOW TONE M/CALL V/MHz b Push [CLR A(MW)] to set the bank and exit set mode. n Repeat steps z to b for transferring or erasing an another banks contents. r Rotate [DIAL] to select the desired bank initial to transfer or erase.

· Select " " indication when erasing the contents from the bank. t Push any key other than [SET] or [MONI] to transfer or erase. and return to regular memory condition. 34 6 CALL CHANNEL OPERATION Call channel transferring q Push [M/CALL PRIO ] several times to select the call channel. · "C" appears. Call channel selection Push [M/CALL PRIO ] once or twice to select the call channel. Appears DIGITAL PRIO AO BUSY MUTE NAR MID LOW LOCK ANM DUP T-SCAN PRIO SCAN · "C" appears instead of memory channel number indication. · Push [M/CALL PRIO ] to return to memory mode, or push [V/MHz SCAN ] to select VFO mode. w Push [S.MW MW ] momentarily, then rotate [DIAL] to select the memory channel to transfer the contents to. · "M" indicator and memory channel number blink. @@@@MW z Push [MR/CALL] for 1 sec. to select the call channel. @@@@q Set the desired frequency in VFO mode. Push [V/MHz SCAN ] to select VFO mode. Set the frequency using [DIAL]. Set other data as desired. w Push [S.MW MW ] momentarily. @@@@ Push [VFO/LOCK] to select VFO mode.

Set the frequency. Set other data as desired. x Push [FUNC], then [CLR A(MW)] momentarily. YZ c Select the call channel via [Y] or [Z]. v Push [FUNC] then [CLR A(MW)] for 1 sec. @@@@Used as the simplest scan without any preliminary settings necessary. PROGRAMMED SCAN (p. 38) Band edge Scan edges Band edge Scan Jump Jump Repeatedly scans between two user-programmed frequencies. Used for checking for frequencies within a specified range such as repeater output frequencies, etc. 3 pairs of scan edges are available.

MEMORY SCAN (p. 38) SKIP M1 M0 M 199 M6 M5 M2 M3 M4 SKIP Repeatedly scans memory channels except those set as skip channels.



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