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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-7200. You'll find the answers to all your questions on the ICOM IC-7200 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-7200
User guide ICOM IC-7200
Operating instructions ICOM IC-7200
Instructions for use ICOM IC-7200
Instruction manual ICOM IC-7200



HF/50 MHz TRANSCEIVER
IC-7200



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Manual abstract:

q Hand microphone (HM-36)

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..... 1 w power cable (OPC-1457) .

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..... 1 DC e Spare fuse (ATC 5 A)

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... 1 r Spare fuse (ATC 30 A)

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..... @@1 y 3.

5 (d) mm plug

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..... 1 u 6.

3 (d) mm Electronic keyer plug

.....

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.. 1 i Microphone hanger

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.....

..... 1 o Jack cap (for [PHONES])

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..... 1 q w SAVE THIS INSTRUCTION MANUAL. @@@@These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. @@@@Equipment damage may occur.

If disregarded, inconvenience only. @@@@Microsoft, Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other products or brands are registered trademarks or trademarks of their respective holders. i PRECAUTIONS R WARNING 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). DO NOT place the transceiver in excessively dusty environments or in direct sunlight. DO NOT place the transceiver against walls or put anything on top of the transceiver. This will obstruct heat dissipation. Place unit in a secure place to avoid inadvertent use by children. During mobile operation, NEVER place the transceiver where air bag deployment may be obstructed. During mobile operation, DO NOT place the transceiver where hot or cold air blows directly onto it. During mobile operation, DO NOT operate the transceiver without running the vehicle's engine. When the transceiver's power is ON and your vehicle's engine is OFF, the vehicle's battery will quickly become exhausted. Make sure the transceiver power is OFF before starting the vehicle engine.

This will avoid possible damage to the transceiver by ignition voltage spikes. During maritime mobile operation, keep the transceiver and microphone as far

away as possible from the magnetic navigation compass to prevent erroneous indications. BE CAREFUL! The rear panel will become hot when operating the transceiver continuously for long periods. BE CAREFUL! If a linear amplifier is connected, set the transceiver's RF output power to less than the linear amplifier's maximum input level, otherwise, the linear amplifier will be damaged. Use Icom microphones only (supplied or optional). Other manufacturer's microphones have different pin assignments, and connection to the IC-7200 may damage the transceiver. For U.S.A. 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. R WARNING HIGH VOLTAGE! NEVER touch an antenna or internal antenna connector during transmission. This may result in an electrical shock or burn. R WARNING! NEVER operate the transceiver while driving a vehicle. Safe driving requires your full attention--anything less may result in an accident.

R NEVER apply AC power to the [DC13.8V] socket on the transceiver rear panel. This could cause a fire or damage the transceiver. R NEVER apply more than 16 V DC, such as a 24 V battery, to the [DC13.8V] socket on the transceiver rear panel.

This could cause a fire or damage the transceiver. R NEVER let metal, wire or other objects touch any internal part or connectors on the rear panel of the transceiver. This may result in an electric shock or this could cause a fire or damage the transceiver. R NEVER expose the transceiver to rain, snow or any liquids. DO NOT use or place the transceiver in areas with temperatures below 10°C (+14°F) or above +60°C (+140°F). Be aware that temperatures on a vehicle's dashboard can exceed +80°C (+176°F), resulting in permanent damage to the transceiver if left there for extended periods. ii TABLE OF

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. 97 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 iv 1 PANEL DESCRIPTION Front panel Speaker q Function Display (p. 7) w e r t i 7200 NB V/M 1
1.8 NR A/B 2 = 3.5 METER ANF SPLIT 3 7 6 AGC 1 14 15 16 17 18 19 20 21 2 Acts as the RIT control Acts as the memN/A ory channel control (!6 on p. 8)
Disappears After pushing F-INP ENT , push a key on the keyBAND pad to enter a numeric frequency. After entering, push F-INP ENT . (p. 25) BAND · e.g.
To enter 14.195 MHz; Push and F-INP ENT BAND F-INP ENT BAND , 1 1.8 , 4 10 , · GENE , 1 1.8 , 9 28 , 5 14 i MANUAL NOTCH FILTER CONTROL
[MNF] (outer control; p. 51) Rotate to adjust the notch filter frequency to reject an interfering signal while the manual notch function is ON.
· The filter width can be set to narrow, middle or wide in the manual notch filter set mode. High frequency Low frequency . y RIT CONTROL INDICATOR

(pgs. 44, 61) Lights orange when [M-CH] control (u) acts as the RIT control. u M-CH/RIT CONTROL [M-CH] (inner control) While in the set mode/quick set mode, rotate to select the set mode item.

(p. 70) This control can act as the memory channel control or RIT control. · The RIT function should be turned ON in advance to activate this control as RIT control. (p. 44) - " " appears when the RIT function is turned ON. · The RIT control indicator (y) lights orange when this control is activated as the RIT control. 4 What is the Manual Notch Filter? The Manual Notch Filter is an adjustable narrow DSP filter that removes tones from CW, SSB, AM or RTTY signals while preserving the desired signal's frequency response. o M-CH/RIT-SET KEY SET Push to toggle the [M-CH] control activation between memory channel control and RIT control. · The RIT function should be turned ON in advance. (p.

44) · The RIT control indicator (y) lights orange when the [M-CH] control functions as the RIT control. M-CH/RIT During [M-CH] acts as the M-CH control: Rotate to select a memory channel (p. 61). OFF M-CH Channel increases Channel decreases Push and hold for 1 sec. to enter the quick set mode. (p. 70) During quick set mode, push and hold for 1 sec. to enter the set mode (p. 70) During quick set mode or set mode, push to return to normal operation. (p. 70) 1 PANEL DESCRIPTION Front panel (Continued) Function Display (p. 7) Speaker !0 !1 i7200 NB V/M 1 1.8 NR A/B 2 = 3.5 METER ANF SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 7 COMP21 5 M-CL 14 8 SCAN 24 0 MNF 50 MODE TUNER TS FILTER SPCH RIT GENE P.AMP ATT M-CH/RIT.

SET @1 @0 !9 !8 !7 !6 !5 !4 !3 !2 P.AMP !0 MODE KEY MODE (p. 29) Push momentarily to cycle through the operating modes: USB/LSB CW/CW-R RTTY/RTTY-R AM Push and hold for 1 sec. to toggle the following operating modes: USB LSB (p. 33) CW CW-R (Reverse) (p.

35) RTTY RTTY-R (Reverse) (p. 39) · "CW-R" or "RTTY-R" appears on the display when reverse mode is selected. !2 PREAMP/ATTENUATOR KEY ATT (p. 45) Push to turn the preamp ON or OFF. · " " appears on the display. Push and hold for 1 sec. to turn the 20 dB attenuator ON; push momentarily to turn the attenuator OFF. · " " appears on the display. Undesired modes can be inhibited in set mode. (p.

81) !1 TUNING STEP KEY TS (pgs. 26, 27) Push to turn the programmable tuning step ON or OFF. · "" appears above the 1 kHz indicator when the programmable tuning step is turned ON and the frequency can be changed in programmed kHz steps. 4 What is the preamp? The preamp amplifies signals in the receiver front end (input) circuit to improve the sensitivity. Turn the preamp ON when receiving weak signals. 4 What is the attenuator? The attenuator prevents a strong undesired signal near the desired frequency or near your location, such as from a broadcast station, from causing distortion or spurious signals. !3 MAIN DIAL [DIAL] Changes the displayed frequency and selects values for selected set mode items, etc. !4 FILTER KEY FILTER (p. 47) Push momentarily to cycle the IF filter settings between wide, middle and narrow for the selected operating mode. Push and hold for 1 sec. to enter the filter set mode. While the programmable tuning step is turned ON ("" appears), push and hold for 1 sec. to enter tuning step set mode; push again to return to normal operation. · 0.1, 1, 5, 9 and 10 kHz programmable tuning steps are available.

While the programmable tuning step is turned OFF, push and hold for 1 sec. to turn the 1 Hz step ON and OFF. · 1 Hz indication appears, and the frequency can be changed in 1 Hz steps. 3 PANEL DESCRIPTION 1 !5 SPCH-LOCK KEY SPCH Push to announce the selected frequency and S-meter level by the speech synthesizer. (p.

32) · The parameters to be announced can be selected in the set mode. (p. 77) · When functioning as RF GAIN/SQL control Squelch is open. RF gain adjustable range S-meter squelch threshold Maximum RF gain S-meter squelch Push and hold for 1 sec. to turn the dial lock function ON or OFF. (p. 29) · The dial lock function electronically locks the main dial. " " appears while the dial lock function is ON. · " " When functioning as RF GAIN control (Squelch is fixed open; SSB, CW, RTTY only) Maximum RF gain Adjustable range Minimum RF gain !6 POWER KEY Push to turn power ON. · Turn the DC power supply ON in advance.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 4 Push and hold for 1 sec. to turn power OFF. !7 TUNER KEY (p. 67) Push to turn the automatic antenna tuner function ON or OFF. TUNER · An optional antenna tuner must be connected. · " " appears on the display. · When functioning as SQL control (RF gain is fixed at maximum.) S-meter squelch threshold Squelch is open.



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S-meter squelch Push and hold for 1 sec. to manually tune the antenna tuner.

· An optional antenna tuner must be connected. · When the tuner cannot tune the antenna, the tuning circuit is bypassed automatically after 20 sec. Lowest threshold Highest threshold !8 RF GAIN/SQUELCH CONTROL [RF/SQL] (outer control; p. 30) Adjusts the RF gain and squelch threshold level. !9 AF CONTROL [AF] (inner control; p.

29) Varies the audio output level from the speaker. Audio output increases Audio output decreases The squelch removes noise output from the speaker (closed condition) when no signal is received. · The squelch is available for all modes. · The control can be set as the squelch plus RF gain controls, squelch control only (RF gain is fixed at maximum) or Auto (RF gain control in SSB, CW and RTTY; squelch control in AM) in set mode. MODE SSB, CW RTTY AM SET MODE SETTING AUTO SQL RF + SQL RF GAIN SQL SQL SQL RF GAIN + SQL RF GAIN + SQL @0 HEADPHONE JACK [PHONES] Accepts headphones with 816 impedance.

· Output power: 5 mW with an 8 load. · When headphones are connected, no receive audio comes from the speaker. @1 MICROPHONE CONNECTOR [MIC] Accepts supplied or optional microphone. · See p. 11 for appropriate microphones and microphone connector information. 1 PANEL DESCRIPTION D Keypad @2 NB V/M 1 1.8 @3 A/B 2 = 3.5 @4 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND NR A/B 2 = 3.5 METER ANF V/M 1 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 1.8 4 10 4 MW 10 7 COMP21 5 M-CL 14 8 SCAN 24 0 MNF 50 @5 @8 MW 5 M-CL 14 8 SCAN 24 0 MNF 50 @6 @7 @9 #0 RIT GENE .

7 COMP21 ER SPCH P.AMP ATT M-CH/RIT SET RIT GENE . #2 #1 #3 @2 VFO/MEMORY/1/1.8 MHz BAND KEY V/M Push to toggle the operating mode between VFO mode or memory mode. (pgs. 23, 61) Push and hold for 1 sec. to copy the memory contents to VFO. (p. 63) 1 Push F-INP ENT , then push this key to inBAND 1.8 put the number 1.

' (p. 25) Push and hold F-INP ENT for 1 sec., then BAND push this key to select the 1.8 MHz band. (p.

24) @3 VFO SELECT/EQUALIZATION/2/3.5 MHz BAND KEY A/B Push to toggle between VFO A and VFO B. (p. 22) Push and hold for 1 sec. to equalize the frequency and operating mode of the two VFO's.

(p. 22) = @4 SPLIT/3/7 MHz BAND KEY SPLIT Push to toggle the split function ON and OFF. (p. 58) ." " appears on the display. Push and hold for 1 sec. to activate the P quick split function. (p. 59) · The VFO B frequency and operating mode are set the same as the VFO A frequency and operating mode. · The quick split function can be turned OFF in the set mode. (p.

76) 3 7 Push F-INP ENT , then push this key to inBAND put the number 3.' (p. 25) Push and hold F-INP ENT for 1 sec., then BAND push this key to select the 7 MHz band. (p. 24) · The undisplayed VFO frequency and operating mode are set the same as the displayed VFO frequency and operating mode. 2 3.5 Push F-INP ENT , then push this key to inBAND put the number 2.' (p. 25) Push and hold F-INP ENT for 1 sec.

, then BAND push this key to select the 3.5 MHz band. (p. 24) @5 MEMORY WRITE/4/10 MHz BAND KEY MW Push and hold for 1 sec. to store the displayed VFO frequency and operating mode into the selected memory channel.

(p. 62) 4 Push F-INP ENT , then push this key to inBAND 10 put the number 4.' (p. 25) Push and hold F-INP ENT for 1 sec., then BAND push this key to select the 10 MHz band.

(p. 24) 5 PANEL DESCRIPTION 1 @6 MEMORY CLEAR/5/14 MHz BAND KEY M-CL Push and hold for 1 sec. to clear the displayed memory channel contents in memory mode. (p. 64) ." " appears above the memory channel number. 5 14 Push and hold for 1 sec., to select a default condition or value when in set mode/quick set mode. (p. 70) Push F-INP ENT , then push this key to inBAND put the number 5.' (p.

25) Push and hold F-INP ENT for 1 sec., then BAND push this key to select the 14 MHz band. (p. 24) #0 VOX/9/28 MHz BAND KEY VOX Push to turn the VOX function ON or OFF. (p. 53) Push and hold for 1 sec. to enter VOX set mode; push again to return to normal operation. 9 Push F-INP ENT , then push this key to BAND 28 input the number 9.' (p. 25) Push and hold F-INP ENT for 1 sec.

, BAND then push this key to select the 28 MHz band. (p. 24) 4 What is the VOX function? The VOX function (Voice-Operated Transmission) activates the transmitter when you speak into the microphone and automatically returns to receive when you stop speaking. #1 MANUAL NOTCH FILTER/0/50 MHz BAND KEY MNF Push to turn the manual notch filter function ON or OFF. (p.

51) ." " appears on the display. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 6 @7 AGC/6/18 MHz BAND KEY AGC Push to toggle the time constant for the AGC circuit fast and slow. (p. 45) · "F.AGC" appears on the display when fast AGC is selected; no indication appears when slow AGC is selected Push and hold for 1 sec.

to turn the AGC function OFF. · "AGC-OFF" appears on the display. 6 18 Push F-INP ENT , then push this key to BAND input the number 6.' (p. 25) Push and hold F-INP ENT for 1 sec., BAND then push this key to select the 18 MHz band. (p. 24) Push and hold for 1 sec. to enter the manual notch set mode; push again to return to normal operation. (p.

52) · Before entering the set mode, the manual notch filter function is turned ON. 0 50 @8 SPEECH COMPRESSOR/7/21 MHz BAND KEY COMP Push to turn the speech compressor function ON or OFF. (p. 57) ." " appears on the display. Push F-INP ENT , then push this key to inBAND put the number 0.' (p.

25) Push and hold F-INP ENT for 1 sec., then BAND push this key to select the 50 MHz band. (p. 24) 7 21 Push and hold for 1 sec.

to enter the speech compression level set mode; push again to return to normal operation. Push F-INP ENT , then push this key to inBAND put the number 7.' (p. 25) Push and hold F-INP ENT for 1 sec., then BAND push this key to select the 21 MHz band.

(p. 24) #2 RIT-/GENERAL BAND KEY RIT Push to turn the RIT (Receiver Incremental Tuning) function ON or OFF. (p. 44) ." " appears on the display. · RIT frequency can be adjusted with [M-CH] control when RIT mode is selected.

Push and hold for 1 sec. to add the RIT shift frequency to the operating frequency. (p. 44) · Available only when the XFC (transmit frequency check function) is turned OFF. (p. 76) · GENE @9 SCAN/8/24 MHz BAND KEY SCAN Push to start/stop the programmed/ memory scan in VFO/memory mode. (p. 66) ." " appears on the display during scanning. 8 24 Push F-INP ENT , then push this key to inBAND put the number ` (decimal point).' (p.

25) Push and hold F-INP ENT for 1 sec., then BAND push this key to select the general coverage band.



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(p. 24) Push F-INP ENT, then push this key to BAND input the number 8. (p. 25) Push and hold F-INP ENT for 1 sec., BAND then push this key to select the 24 MHz band. (p. 24) #3 FREQUENCY INPUT/ENTER/BAND KEY F-INP ENT Push to enter the direct frequency in BAND put condition. (p. 25) Push and hold for 1 sec., then push a key on the keypad to select the operating band. (p. 24) · · GENE selects the general coverage band. 1 PANEL DESCRIPTION Function display q w e r t !4 !3 !2 !1 q TRANSMIT INDICATOR Appears while transmitting.

w MODE INDICATORS Shows the selected operating mode. · " " appears when SSB/AM data mode is selected. (p. 71) y u i !0 i SIGNAL/SQL/RF-GAIN METER Shows receiving signal strength while receiving. Shows either transmit power meter (Po), SWR or ALC while transmitting.

(p. 30) o NOTCH INDICATORS (p. 51) " " appears when the automatic notch function is activated. " " appears when the manual notch function is activated. !0 NOISE REDUCTION INDICATOR (p. 50) Appears when the noise reduction is activated. !1 NOISE BLANKER INDICATOR (p. 49) Appears when the noise blanker is activated. !2 TUNE INDICATOR (p. 67) Appears when the optional automatic antenna tuner is activated.

Blinks while tuning. !3 RECEIVE INDICATOR Appears while receiving a signal or when the squelch is open. !4 FREQUENCY READOUT Shows the operating frequency. · "-R" appears when CW reverse or RTTY reverse mode is selected. (pgs. 29, 35, 39) e IF FILTER INDICATORS (p. 47) Shows the selected IF filter. " " appears when the wide IF filter is selected. " " appears when the normal IF filter is selected. " " appears when the narrow IF filter is selected.

r LOCK INDICATOR (p. 29) Appears when the dial lock function is activated. t MEMORY INDICATOR (p. 61) Appears when memory mode is selected. y MEMORY CHANNEL NUMBER READOUT (p. 61) Shows the selected memory channel number. u BLANK INDICATOR (p. 62) Appears when the selected memory channel is blank. · This indicator appears both in VFO and memory mode. 7 PANEL DESCRIPTION 1 !5 !6 !7 !8 @0 1 2 !9 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 8 !5 PROGRAMMABLE TUNING STEP INDICATOR A ppears when the programmable tuning step is selected.

(p. 26) !6 RIT INDICATOR (p. 44) Appears when the RIT function is activated. !7 VFO INDICATORS (p. 22) "VFO A" or "VFO B" appears when VFO mode is selected. !8 FUNCTION INDICATORS " " appears when the speech compressor is activated in SSB mode. " " appears when the VOX function is activated. " " appears during split frequency operation. " " appears when preamp is activated. " " appears when the attenuator function is activated.

" " appears during scan. · Blinks when scan is paused. !9 AGC INDICATORS (p. 45) Shows the selected AGC time constant. · "F.AGC" for AGC fast; "AGC-OFF" for AGC OFF; no indicator; for AGC slow. @0 BREAK-IN INDICATORS (p. 55) "BK" appears when the semi break-in function is activated. "F-BK" appears when the full break-in function is activated. 1 PANEL DESCRIPTION Rear panel o !0 !1 q REMOTE E X T SP w e r KEY SEND ALC ANT TUNER GND DC 13.

8V ACC i q USB JACK [] Connect an USB cable to be used for the modulation input (p. 20), the transceiver operation with PC and the received audio import to the PC. CAUTION: For Windows® XP/2000: NEVER install the driver before connecting an USB cable between the transceiver and PC. For Windows Vista™: NEVER connect an USB cable until the driver installation has been complete. About the USB driver: Icom HP (<http://www.icom.co.jp/world/support/index.html>) gives the USB driver and the installation guide download service. The following items are required: PC · Microsoft® Windows® XP/2000 or Microsoft® Windows Vista™ installed · With USB port Other items · USB cable (third party's) · PC software About the modulation input: Select "U" (USB) in the set mode item Modulation input (Data OFF)' or Modulation input (Data ON)'. And the modulation input level from USB jack can be set in the set mode item USB Level.' (p. 77) w EXTERNAL SPEAKER JACK [EXT SP] (pgs. 14, 93) Connect a 48 ø external speaker, if desired. · When an external speaker is connected, the internal speaker does not function. u y t e CI-V REMOTE CONTROL JACK [REMOTE] (pgs. 14, 88) Designed for use with a PC for remote control of the transceiver functions. Used for transceiver operation with another Icom CI-V transceiver or receiver. r ANTENNA CONNECTOR [ANT] (p. 13) Accepts a 50 antenna with a PL-259 connector and a 50 coaxial cable.

t ALC INPUT JACK [ALC] (p. 17) Connects to the ALC output jack of a non-Icom linear amplifier. y SEND CONTROL JACK [SEND] (p. 17) Goes to ground while transmitting to control external equipment such as a linear amplifier. · Max. control level: 16 V DC/0.5 A u ELECTRONIC KEYS JACK [KEY] Accepts a key or paddle connector for the internal electronic keyer. · The keyer type selection between the internal electronic keyer and straight key operation can be made in set mode. When connecting a straight key () When connecting a paddle (dot) (com) (dash) If you use an external electronic keyer, make sure the output voltage of the keyer is less than 0.4 V when keying the transmitter.

9 PANEL DESCRIPTION 1 i ACCESSORY SOCKET [ACC] Enables connection to external equipment such as a TNC for data communications, a linear amplifier or an automatic antenna tuner, etc. · See below for socket wiring information. o TUNER CONTROL SOCKET [TUNER] (p. 16) Accepts the control cable from an optional AH-4 hf/50 mhz automatic antenna tuner. !1 DC POWER SOCKET [DC 13.8V] (p. 15) Accepts 13.8 V DC through the supplied DC power cable. Rear panel view !0 GROUND TERMINAL [GND] (p. 12) Connect this terminal to a ground to prevent electrical shocks, TVI, BCI and other problems.

1 D ACC socket information · ACC socket ACC PIN No. 1 13 9 10 11 12 5678 1234 2 DESCRIPTION SPECIFICATIONS ----- : 8 V ± 0.3 V : Less than 10 mA ----- Ground level Output current Input current (Tx) : 0.5 V to 0.8 V : Less than 20 mA : Less than 200 mA ----- : 0 to 8.0 V : 4 V to 0 V : More than 10 k ----- : Max. 1 A ----- "High" level "Low" level Output current Input impedance Input level : More than 2.4 V : Less than 0.6 V : Less than 2 mA : 10 k : Approx. 100 mV rms NAME NC (8 V*) GND HSEND BDT 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 10 (*If the modification (p. 97) is performed, regulated 8 V output.) Output voltage Output current Connects to ground. Input/output pin. Grounded when transmits. Data line for the optional AT-180. 2 3 4 5 6 7 8 9 10 11 12 13 Rear panel view q brown w red e orange r yellow t green y blue u purple i gray o white !0 black !1 pink !2 light blue !3 light green NC (*If the modification (p.



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97) is (BAND*) performed, band voltage output.) Output voltage ALC NC 13.8 V TKEY FSKK MOD AF SQLS ALC voltage input. ----- 13.
 8 V output when power is ON. Output current Key line for the optional AT-180. Controls RTTY keying Modulator input. Control voltage Input impedance
 Color refers to the cable strands of the supplied cable. AF detector output.
 Output impedance : 4.7 k Fixed level, regardless of the Output level : 100300 mV rms [AF] control position. Squelch output. Grounded when squelch opens.
 SQL open SQL closed : Less than 0.
 3 V/5 mA : More than 6.0 V/100 µA · When connecting the ACC conversion cable (OPC-599) !3 o !0 !1 !2 tyui qwer Connect to ACC socket ACC 1 4 1 6 2 8
 ACC 2 5 3 7 4 1 6 2 5 3 7 q FSKK w GND e SEND r MOD t AF y SQLS u 13.8 V i ALC q NC (8 V*) t ALC w GND y NC u 13.8 V e SEND r NC (BAND*) *
 See p. 97 for details. 1 PANEL DESCRIPTION Microphones D HM-36 q q UP/DOWN SWITCHES [UP]/[DN] Change the selected readout frequency or
 memory channel. · Pushing the switch continuously changes the frequency or memory channel number continuously. · The [UP]/[DN] switch can simulate a
 key paddle. Select in set mode (U/D KEY; Mic Up/Down Keyer). (p.

80) · While pushing and holding RIT *, push the [UP]/[DN] switch to control the transmit readout frequency while in split frequency operation. * Available
 only when the XFC (transmit frequency check) function is turned ON. (p. 76) w D SM-20 (Option) w PTT SWITCH Push and hold to transmit; release to
 receive. e PTT LOCK SWITCH (SM-20 only) Push to lock the PTT switch to the transmission condition. e q w · MICROPHONE CONNECTOR (Front view) i
 AF output (varies with [AF]) q Microphone input w +8 V DC output e Frequency up/down u GND (Microphone ground) y GND (PTT ground) t PTT r
 Squelch switch [MIC] FUNCTION PIN NO. +8 V DC output w Frequency up e Frequency down Squelch open r Squelch close DESCRIPTION Max. 10 mA
 Ground Ground through 470 "LOW" level "HIGH" level CAUTION: DO NOT short pin 2 to ground as this can damage the internal 8 V regulator. DC
 voltage is applied to pin 1 for microphone operation. Use caution when using a non-Icom microphone.
 · HM-36 SCHEMATIC DIAGRAM MICROPHONE 2k ϕ + MICROPHONE CABLE MICROPHONE PLUG 0.33µF 4700pF MIC ELEMENT + 1k ϕ 10µF q w i
 r u y t DOWN UP e PTT RECEIVE TRANSMIT 470 ϕ 11 INSTALLATION AND CONNECTIONS Unpacking After unpacking, immediately report any damage
 to the delivering carrier or dealer. Keep the shipping cartons. For a description and a diagram of accessory equipment included with the IC-7200, see
 Supplied accessories' on p. i of this manual.

2 Antenna connection For radio communications the antenna is of critical importance for output power and sensitivity. Use well-matched 50 ϕ antennas and
 coaxial feedline. An SWR (standing wave ratio) of 1.5:1 or lower is recommended when transmitting. CAUTION: Protect your transceiver from lightning by
 using a lightning arrestor.
 PL-259 CONNECTOR INSTALLATION EXAMPLE q 30 mm Selecting a location Select a location for the transceiver that allows adequate air circulation,
 free from extreme heat, cold, or vibrations, and away from TV sets, TV antenna elements, radios and other electromagnetic sources. The base of the
 transceiver has an adjustable stand for desktop use. Set the stand to one of two angles depending on your operating conditions. Coupling ring 10 mm (soft
 solder) 10 mm Slide the coupling ring down. Strip the cable jacket and soft solder. Strip the cable as shown at left. Soft solder the center conductor. Slide the
 connector body on and solder it. Screw the coupling ring onto the connector body. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 12 w Soft solder 12
 mm e solder solder r 30 mm Stand (9/8 in)10 mm (3/8 in)12 mm (1/16 in) Grounding To prevent electrical shock, television interference (TVI), broadcast
 interference (BCI) and other problems, ground the transceiver through the GROUND terminal on the rear panel.

For best results, connect a copper or copper-plated ground rod driven into the earth. Make the distance between the [GND] terminal and ground as short and
 straight as possible. Antenna SWR Each antenna is tuned for a specified frequency range and SWR may be increased out-of-range. When the SWR is higher
 than approx. 2.0:1, the transceiver's power drops to protect the final transistor. In this case, an optional antenna tuner is useful to match the transceiver and
 antenna. Low SWR allows full power for transmitting even when using the antenna tuner. The IC-7200 has an SWR meter to monitor the antenna SWR
 continuously. R WARNING: NEVER connect the [GND] terminal to a gas or electric conduit, since the connection could cause an explosion or electric shock.
 [GND] 2 INSTALLATION AND CONNECTIONS Required connections · Front panel MICROPHONES (p. 11) i7200 NB V/M 1 1.8 NR A/B 2 = 3.5 METER
 ANF SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 7 COMP21 5 M-CL 14 8 SCAN 24 0 MNF 50 MODE TUNER TS FILTER SPCH RIT GENE
 P.AMP ATT M-CH/RIT .

SET HM-36 SM-20 · Rear panel DC POWER SUPPLY (p.15) AC outlet A DC power supply 13.8 V; at least 22 A Red Black + _ HF/50 MHz ANTENNA
 GROUND (p. 12) Use the heaviest gauge wire or strap available and make the connection as short and straight as possible. Grounding prevents electrical
 shocks, TVI and other problems.

CW KEY A straight key can be used when the internal electronic keyer is turned OFF in initial set mode. (p. 80) 13 INSTALLATION AND CONNECTIONS 2
 Advanced connections · Front panel i7200 NB V/M 1 1.8 NR A/B 2 = 3.5 METER ANF SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 7
 COMP21 5 M-CL 14 8 SCAN 24 0 MNF 50 MIC The AFSK modulation signal can be input from [MIC]. (p. 19) MODE TUNER TS FILTER SPCH RIT GENE
 P.AMP ATT M-CH/RIT . SET HEADPHONES 1 2 3 4 · Rear panel 5 6 REMOTE (p. 88) Used for computer control and transceive operation.

with 7 8 9 10 11 12 13 14 15 AH-4 (p. 16) AH-2b or long wire EXTERNAL SPEAKER (p. 93) SP-21 ACC SOCKET (p. 10) [SEND], [ALC] (p. 17) Used for
 connecting a non-Icom linear amplifier. 16 17 18 19 20 21 14 2 INSTALLATION AND CONNECTIONS Power supply connections Use a DC power supply
 with a 22 A capacity when operating the transceiver with AC power. Refer to the diagrams below. CAUTION: Before connecting the DC power cable, check
 the following important items. Make sure: · The switch is OFF. · Output voltage of the power source is 1215 V.
 · DC power cable polarity is correct. Red : Positive + terminal Black : Negative _ terminal Connecting the DC Power Supply AC outlet A DC power supply

13.



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8 V; at least 22 A Red Black + _ Transceiver R CAUTION! The rear panel will become hot when operating the transceiver continuously for long periods. To DC power socket BE CAREFUL when disconnecting the DC power cable because the connector is tightly locked. Use a small tool, such as a flat-bladed screwdriver, to disengage the locking tab.

30 A fuses AC cable Supplied DC power cable Battery connections · RWARNING NEVER connect to a battery without supplying a DC fuse, otherwise a fire hazard occurs. · N EVER connect the transceiver to a 24 V battery. The transceiver may not receive well on some frequencies when installed in a hybrid vehicle, or any type of electric vehicle (fuel cell vehicle). This is because vehicle's electric components such as the inverter system generate a lot of electric noise. CONNECTING A VEHICLE BATTERY · 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. · se a rubber grommet when passing the DC U power cable through a metal plate to prevent a short circuit. The IC-7200 is not certified for vehicle installation in European countries. Note: Use terminals for the cable connections. Crimp Grommet black red Solder 12 V battery Supplied DC power cable 15 INSTALLATION AND CONNECTIONS 2 External antenna tuners CONNECTING THE AH-4 Coaxial cable IC-7200 [ANT] (from the AH-4) Long wire or optional AH-2b AH-4 [TUNER] Ground Ground 1 CONNECTING THE AT-180 ACC cable supplied with the AT-180 Coaxial cable supplied with the AT-180 [ACC] IC-7200 [ANT] [ANT] AT-180 [ACC] HF to 6 m antenna 2 3 4 5 6 [TRANSCEIVER] Either of the two external connectors 7 Ground Ground 8 9 10 11 12 13 14 15 16 17 18 19 20 21 16 · Turn the IC-7200's power OFF when connecting the AT-180, otherwise, the CPU may malfunction and the AT-180 may not function properly. 2 INSTALLATION AND CONNECTIONS Linear amplifier connections CONNECTING THE IC-PW1/EURO To an antenna [ACC-1] Remote control cable (supplied with the IC-PW1/EURO) ACC cable (supplied with the IC-PW1/EURO) 7-pin side [ANT] [REMOTE] OPC-599 conversion cable [ACC] [INPUT1] [GND] [REMOTE] EXCITER 1 1&2 Transceiver Coaxial cable (supplied with the IC-PW1/EURO) [GND] [ANT] IC-PW1/EURO Ground (Non-European versions :: 100-120/220240 V) European version 230 V CONNECTING A NON-ICOM LINEAR AMPLIFIER To AC outlet R WARNING: · Set the transceiver output power and linear amplifier ALC output level by referring to the linear amplifier instruction manual. Be sure the linear amplifier keying circuit control voltage is compatible with the IC-7200, before connecting to the [SEND] connector. · The ALC input level must be in the range +0 V to 4 V, and the transceiver does not accept positive voltage. Non-matched ALC and RF power settings could cause a fire or damage the linear amplifier. To an antenna The IC-7200 SEND line is rated at 16 V/200 mA DC.

If this level is exceeded, a larger external relay must be used. 50 φ coaxial cable Transceiver [ANT] RF OUTPUT RF INPUT SEND ALC Non-Icom linear amplifier [SEND] [ALC] 17 INSTALLATION AND CONNECTIONS 2 Connections for CW Rear panel KEY Set mode settings (p. 80) Normal ACC Paddle polarity: Normal R ev e r s e l 13 9 10 11 12 5678 1234 For no break-in operation: Connect an external switch such as a foot switch; or use the RTTY SEND terminal for all bands. (See p. 19) Paddle Paddle polarity: Reverse Bug 2 3 4 5 6 7 Keyer type: Bug-key Keyer type: Straight-key Straight key * When connecting an external electronic keyer, set the keyer type to 'St' (straight-key). 8 9 10 11 12 MIC Mic Up/Down keyer: ON See p. 82 for connection details: Paddle operation from the [MIC] connector. Microphone (HM-36) 13 14 15 16 17 18 19 20 21 18 2 INSTALLATION AND CONNECTIONS [EXT SP] 2-conductor 1/8" plug Connections for RTTY D Connections for RTTY (FSK) Rear panel AF GND [ACC] TNC or PC interface for the RTTY software Colors refer to the wires in the supplied ACC cable. 13 9 10 11 12 5678 1234 SQL* (light green) FSKK (black) AF out (light blue) HSEND (orange) GND (red) PC *Connect SQL line when required. (Rear panel view) D Connections for RTTY (AFSK) Front panel (Front panel view) [MIC] y GND r SQL* i AF out u GND t PTT q MIC TNC or PC interface for the RTTY software PC *Connect SQL line when required.

19 INSTALLATION AND CONNECTIONS 2 Connections for SSTV or PSK31 D When connecting to the [ACC] socket Rear panel [ACC] 13 9 10 11 12 5678 1234 SQL* (light green) AF in (pink) AF out (light blue) HSEND (orange) GND (red) TNC or PC interface for the software Colors refer to the wires in the supplied ACC cable. PC 1 2 3 4 5 6 7 8 9 *Connect SQL line when required. (Rear panel view) D When connecting to the [MIC] connector Front panel (Front panel view) [MIC] 10 11 12 13 14 15 16 17 18 19 20 21 20 y GND r SQL* i AF out u GND t PTT q MIC TNC or PC interface for the software PC *Connect SQL line when required. D When connecting to the [USB] jack Connect an USB cable (third party's) between the transceiver's USB jack and PC. (p.

9) · Icom HP (<http://www.icom.co.jp/world/support/index.html>) gives the USB driver and the installation guide download service.

3 BASIC OPERATION Before first applying power Before first applying power, make sure all connections required for your system are complete by referring to Chapter 2. After all connections have been done, set controls and switch as shown in the figure below. [TWIN PBT]: Center i7200 NB V/M 1 1.8 NR A/B 2 = 3.5 METER ANF SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 7 COMP21 5 M-CL 14 8 SCAN 24 0 MNF 50 [AF]: Max. CCW* [RF/SQL]: Center MODE TUNER TS FILTER SPCH RIT GENE P.AMP ATT M-CH/RIT . SET * CCW: counterclockwise [POWER]: OFF Applying power (CPU resetting) First applying power: Reset the transceiver using the following procedure. Resetting CLEARS all programmed contents in memory channels and returns the quick set mode/set mode to default values. q Make sure the transceiver power is OFF.

w While pushing and holding F-INP ENT and BAND push to turn power ON. MODE TS TUNER FILTER SPCH NB V/M 1 1.8 4 10 NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND MW 5 M-CL 14 7 8 COMP21 SCAN 24 RIT GENE P.AMP ATT M-CH/RIT . 0 MNF 50 SET 5 M-CL 14 F-INP ENT BAND M-CL , · The internal CPU is reset. · The transceiver displays its initial VFO frequencies when resetting is complete. e All quick set mode/set mode settings are returned to the default values.



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(p. 70) Normal applying power: Push to turn power ON, then check the display.

If any of indicators appear, turn them OFF if necessary. (See the appropriate page for details). Under cooler temperatures, the LCD may appear dark and unstable after turning power ON. This is normal and does not indicate any equipment malfunction. 21 BASIC OPERATION 3 VFO description VFO is an abbreviation of Variable Frequency Oscillator, and traditionally refers to an oscillator.

The IC-7200 VFO can store a frequency and an operating mode. You can call up a desired frequency to the VFO with the keypad or the memory copy function (p. 63). You can also change the frequency with [DIAL] and select an operating mode with MODE or call up previously accessed frequency and modes with the band stacking register (p. 24).

The IC-7200 has two VFOs, specially suited for split frequency operation. The VFOs are called VFO A and VFO B. You can use the desired VFO to call up a frequency and operating mode for operation. Select VFO Change DIAL Transfer Transfer MEMORY CHANNEL 7.001 MHz BAND 21.295 MHz 1 2 3 4 5 6 VFO operation D Selecting the VFO A/B = Push A/B to toggle VFO A or VFO B. Either " " or " " appears. NB V/M 1 1.8 7 8 NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 7 COMP21 5 M-CL 14 8 SCAN 24 0 MNF 50 9 10 11 12 13 14 15 MODE TS RIT GENE P.

AMP ATT M-CH/RIT . TUNER FILTER SPCH SET D VFO equalization Push and hold A/B for 1 sec. to set the undisplayed VFO frequency and mode to the displayed VFO frequency . 3 beeps sound when the VFO equalization is completed. CONVENIENT Use two VFOs as a quick memory When you find a new station, but you wish to continue searching, the two VFO systems can be used for quick memory storage. q Push and hold A/B for 1 sec. to store the displayed frequency into the undisplayed VFO. w Continue searching for stations. e Push A/B to retrieve the stored frequency. r To continue searching for a station, push A/B again. = = = Push and hold for 1 sec.

then push 16 again. 17 18 19 20 21 22 3 BASIC OPERATION Selecting VFO/memory mode Push V/M to toggle between VFO and memory modes. NB V/M 1 1.8 NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.

AMP ATT M-CH/RIT . 0 MNF 50 TUNER FILTER SPCH SET D Differences between VFO mode and memory mode VFO MODE Each VFO shows a frequency and operating mode. If the frequency or operating mode is changed, the VFO automatically memorizes the new frequency or operating mode. When the VFO is selected from another VFO or memory mode, the last used frequency and operating mode for that VFO appears. MEMORY MODE (pgs.

6164) Each memory channel shows a frequency and operating mode like a VFO. Even if the frequency or mode is changed, the memory channel does not memorize the new frequency or operating mode. When the memory channel is selected from another memory channel or VFO mode, the memorized frequency and operating mode appear even if the memory channel settings, frequency and mode, are changed before selecting another memory channel or VFO mode.

[EXAMPLE] VFO is selected. Memory channel 1 is selected. [EXAMPLE] The frequency is changed. The frequency is changed. Memory mode is selected. Another memory channel is selected. VFO is selected again.

Changed frequency (14.123 MHz) appears. Memory channel 1 is selected again. Changed frequency (14.123 MHz) does not appear and memorized frequency (14.100 MHz) appears instead. 23 BASIC OPERATION 3 Selecting an operating band The transceiver has a band stacking register. This function automatically memorizes the last operating frequency and mode used on a particular band. This is convenient for contest operation. MODE TS Band keys NB V/M 1 1.

8 NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 5 M-CL 14 7 8 COMP21 SCAN 24 RIT GENE P. AMP ATT M-CH/RIT . 0 MNF 50 See the table below for a list of the bands available and the default settings for each register. BAND 1.

8 MHz 3.5 MHz 7 MHz 10 MHz 14 MHz 18 MHz REGISTER 1.900000 MHz CW 3.550000 MHz LSB 7.050000 MHz LSB 10.

120000 MHz CW 14.100000 MHz USB 18.100000 MHz USB BAND 21 MHz 24 MHz 28 MHz 50 MHz General TUNER FILTER SPCH SET REGISTER 21.200000 MHz USB 24.950000 MHz USB 28.500000 MHz USB 50.100000 MHz USB 15.000000 MHz USB 1 2 3 4 5 6 D Using the band stacking register q Push and hold for 1 sec. to enter the band selection mode. 5 w Push 14 to select 14 MHz band.

The last operated frequency and mode are memorized. F-INP ENT BAND [Example]: 14 MHz band V/M 1 1.8 10 21 A/B 2 = 3.5 14 24 SPLIT 3 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 24 7 e Push MODE to select an operating mode; rotate [DIAL] to select an operating frequency. MW 4 M-CL 5 AGC 6 VOX 18 28 9 COMP 7 RIT SCAN 8 MNF 0 GENE . 50 F-INP ENT BAND 3 BASIC OPERATION Frequency setting The transceiver has several tuning methods for convenient frequency tuning. D Using the main dial q After pushing and holding F-INP ENT for 1 sec., push BAND the desired band key to select the corresponding band. When you push band is selected. GENE If the dial lock function is activated, " " (lock indicator) appears, and [DIAL] does not function.

Push and hold for 1 sec. to deactivate the lock function. (see p. 29 for details) SPCH , the general coverage receiver NB V/M 1 1.8 4 10 NR METER ANF A/B 2 = 3.

5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND MW 5 M-CL 14 8 SCAN 24 0 MNF 50 w Rotate [DIAL] to set the desired frequency. 7 COMP21 MODE TS RIT GENE P. AMP ATT M-CH/RIT . TUNER FILTER SPCH SET [DIAL] Band keys D Direct frequency entry with keypad The transceiver has a keypad for direct frequency entry as described at right. V/M 1.

8 10 21 1 A/B = 3.5 14 24 50 2 SPLIT 3 7 q Push F-INP ENT . BAND w Input the desired frequency with the numeral keys on the keypad. Push GENE to input " . (decimal point)" between the MHz digits and kHz digits. MW COMP RIT 4 M-CL SCAN MNF 5 AGC VOX 18 28 6 7 8 0 9 GENE . F-INP ENT BAND e Push F-INP ENT BAND to set the input frequency. M-CH/RIT SET . To cancel the input, push keypad). (or any key except [EXAMPLE] . 14.025 MHz F-INP ENT BAND V/M 1.8 1 MW 10 4 RIT GENE .

MNF 50 0 A/B = 3.5 2 M-CL 14 5 F-INP ENT BAND . 706 kHz F-INP ENT BAND MNF 50 0 RIT GENE . COMP 21 7 MNF 50 0 AGC 18 6 F-INP ENT BAND . 21.280 MHz 21.



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245 MHz. F-INP ENT RIT BAND GENE A/B = 3.5 2 MW 10 4 M-CL 14 5 F-INP ENT BAND 25 BASIC OPERATION 3 D Programmable tuning steps The operating frequency can be changed in steps of (0.1, 1, 5, 9 or 10 kHz selectable) for quick tuning. NB V/M 1 1.8 q Push TS to turn the programmable tuning function ON.

"Z" appears. Programmable tuning step indicator NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 7 COMP21 5 M-CL 14 8 SCAN 24 0 MNF 50 MODE TS RIT GENE P.AMP ATT M-CH/RIT. TUNER FILTER SPCH SET [DIAL] w Rotate [DIAL] to change the frequency in programmed kHz steps.

e Push TS again to turn the programmable tuning function OFF. "Z" disappears. 1 2 3 4 5 6 7 8 9 10 r Rotate [DIAL] for normal tuning, if desired. D Selecting the programmable tuning step Programmable tuning steps are available to suit your operating requirements. These tuning steps are: · Selectable from 0.

1, 1, 5, 9 and 10 kHz NB V/M 1 1.8 q Push TS to turn the programmable tuning function ON. "Z" appears. Programmable tuning step indicator NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.AMP ATT M-CH/RIT. 0 MNF 50 TUNER FILTER SPCH SET w Push and hold step set mode. TS for 1 sec. to enter the tuning 11 12 13 [DIAL] e Rotate [DIAL] to select the desired tuning step from 0.1, 1, 5, 9 or 10 kHz.

r Push TS to exit the tuning step set mode. t Rotate [DIAL] to change the frequency according to the set tuning step. y Push TS to turn the programmable tuning function OFF. "Z" disappears. 14 15 16 17 18 19 20 21 26 3 BASIC OPERATION D 1 Hz and 10 Hz tuning steps When the programmable tuning step "Z" disappears, rotating [DIAL] changes the frequency in increments of 1 or 10 Hz. NOTE: The frequency is changed in 50 Hz step when the [UP]/[DN] switches of the microphone are used for the frequency setting (when the programmable tuning step is not selected; "Z" disappears.) NB V/M 1 1.8 4 10 Push and hold TS for 1 sec. to toggle between the 1 Hz and 10 Hz step settings. · When the 1 Hz step is selected, the 1 Hz digit appears in the frequency indication; when the 10 Hz step is selected, the 1 Hz digit disappears from the frequency indication.

· Rotating [DIAL] changes the frequency in 1 Hz or 10 Hz tuning step. 10 Hz tuning NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND MW 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.AMP ATT M-CH/RIT. 0 MNF 50 Rotating [DIAL] changes the frequency in 10 Hz steps.

1 Hz tuning Push and hold TS TUNER FILTER SPCH SET for 1 sec. [DIAL] Appears Rotating [DIAL] changes the frequency in 1 Hz steps. D TS switch flow chart Programmable tuning step indicator Push 10 Hz tuning 1 sec. Push and hold 1 sec. TS momentarily Programmable step tuning (0.

1 kHz 10 kHz) 1 sec. Push momentarily 1 Hz tuning Appears Tuning step set mode 27 BASIC OPERATION 3 D Auto tuning step function When rotating the tuning dial rapidly, the tuning speed accelerates automatically as selected. q Push and hold M-CH/RIT for 1 sec. twice to enter SET the set mode. w Rotate [M-CH] to select "Auto TS." e Rotate [DIAL] to select the desired tuning speed from HI (High), Lo (Low) and oF (OFF). · HI : Approx. 5 times faster when the tuning step is set to 1 kHz or smaller steps; approx. 2 times faster when the tuning step is set to 5 kHz or larger steps. · Lo : Approx.

2 times faster · oF : Auto tuning step is turned OFF · Push and hold M-CL for 1 sec. to select a default condition or value. NB V/M 1 1.8 4 10 NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND MW 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.AMP ATT M-CH/RIT. 0 MNF 50 TUNER FILTER SPCH SET [DIAL] [M-CH] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 28 When "HI" is selected (default) r Push to exit the set mode and return to normal operation. M-CH/RIT SET D ¼ tuning function (SSB data/CW/RTTY only) While operating in SSB data/CW/RTTY, the ¼ tuning function is available for critical tuning. Dial sensitivity is reduced to ¼ of normal when the ¼ function is in use. q Push and hold M-CH/RIT for 1 sec. twice to enter SET the set mode. w Rotate [M-CH] to select "DIAL ¼." e Rotate [DIAL] to select the ¼ tuning function ON and OFF. · Push and hold ditton or value. NB V/M 1 1.

8 M-CL for 1 sec. to select a default con- NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.AMP ATT M-CH/RIT. 0 MNF 50 TUNER FILTER SPCH SET When "OFF" is selected (default) [M-CH] [DIAL] r Push M-CH/RIT to exit the set mode and return to SET normal operation.

NOTE: This function is only available when the programmable tuning step is OFF (p. 26). D Band edge warning beep When selecting a frequency that lies outside of a band's specified frequency range, a warning beep sounds. This function can be turned OFF in set mode, if desired. q Push and hold M-CH/RIT for 1 sec. twice to enter SET the set mode. w Rotate [M-CH] to select "BAND BEP." e Rotate [DIAL] to select the band edge warning beep function ON and OFF. · Push and hold ditton or value. NB V/M 1 1.

8 4 10 M-CL for 1 sec. to select a default con- NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND MW 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.AMP ATT M-CH/RIT. 0 MNF 50 TUNER FILTER SPCH SET When "ON" is selected (default) [M-CH] [DIAL] r Push to exit the set mode and return to normal operation. M-CH/RIT SET 3 BASIC OPERATION Volume setting Rotate the [AF] control clockwise to increase; counterclockwise to decrease the audio output level. · Set a suitable audio level. NB V/M 1 1.8 NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.

AMP ATT M-CH/RIT. 0 MNF 50 Audio output increases Audio output decreases TUNER FILTER SPCH SET [AF] Operating mode selection The following modes are available in the IC-7200: SSB (USB/LSB), SSB data (USB data/LSB data), CW, CW-R (CW Reverse), RTTY, RTTY-R (RTTY Reverse), AM and AM data modes. NB V/M 1 1.8 NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.



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AMP ATT M-CH/RIT . 0 MNF 50 TUNER FILTER SPCH SET Push MODE one or more times to select desired operation mode. Push and hold MODE for 1 sec. to toggle between USB and LSB. (SSB mode only) Push and hold MODE for 1 sec.

to toggle between CW and CW Reverse or RTTY and RTTY Reverse. (CW and RTTY mode only) SSB data (USB data/LSB data) or AM data mode can be selected in the quick set mode. (p. 71) · The selected mode is indicated in the function display. OPERATING MODE SELECTION USB CW RTTY AM LSB CW-R RTTY-R Push MODE NOTE: If a desired operating mode cannot be selected, it may be disabled in the set mode. (p. 81) momentarily Push and hold MODE for 1 sec. Dial lock function The dial lock function prevents accidental changes caused by [DIAL]. NB V/M 1 1.8 ush and hold P for 1 sec.

to turn the dial lock function ON and OFF. ." " appears while the dial lock function is activated. Appears SPCH NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.AMP ATT M-CH/RIT . 0 MNF 50 TUNER FILTER SPCH SET 29 BASIC OPERATION 3 RF gain and Squelch The [RF/SQ] control adjusts the RF gain and squelch threshold level. The squelch stops noise output from the speaker (closed position) when no signal is received. · The 12 o'clock position is recommended for any setting of the [RF/SQ] control. · The [RF/SQ] control can be set as the RF gain control only (squelch is fixed open) or squelch control (RF gain is fixed at maximum) in the set mode (p. 75). See the table as below. MODE SSB, CW RTTY AM SET MODE SETTING SQL RF + SQL SQL SQL RF GAIN + SQL RF GAIN + SQL NB V/M 1 1.8 4 10 NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND MW 5 M-CL 14 8 SCAN 24 0 MNF 50 7 COMP21 MODE TS RIT GENE P.AMP ATT M-CH/RIT .

TUNER FILTER SPCH SET [RF/SQ] AUTO RF GAIN SQL 1 · When functioning as RF GAIN/SQ control Squelch is open. RF gain adjustable range S-meter squelch threshold Maximum RF gain S-meter squelch 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Adjusting RF gain (Receive sensitivity) Normally, the [RF/SQ] control is set to the 12 o'clock position. Rotate the [RF/SQ] control to the 11 o'clock position for maximum sensitivity. · Rotate the [RF/SQ] control clockwise to increase, counterclockwise to decrease the receiver sensitivity. · The S-meter indicates receive sensitivity.

· When functioning as RF GAIN control Maximum RF gain Adjustable range Minimum RF gain Adjusting squelch (Removing non-signal noise) Rotate the [RF/SQ] control to the 1 o'clock position to invoke the S-meter squelch-- this allows you to set the minimum signal level needed to open the squelch. · A segment appears in the S-meter to indicate the S-meter squelch level. · When functioning as SQL control S-meter squelch threshold Squelch is open. Lowest Threshold S-meter squelch Highest Threshold Meter function The transceiver has 3 transmit meter functions for your convenience. Select the desired meter from RF power (Po), ALC and SWR. Push and hold for 1 sec. to toggle between RF power (Po), SWR and ALC. · The display indication changes as the following table. DISPLAY INDICATION Po NB V/M 1 1.8 ANF METER 16 17 18 19 20 21 30 MEASUREMENT Indicates the relative RF output power.

Indicates the SWR on the transmission line. Indicates the ALC level. When the meter movement shows the input signal level exceeds the allowable level, the ALC limits the RF power. In such cases, reduce the MIC gain setting (see p. 31) in the quick set mode. NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 5 M-CL 14 SWR 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.AMP ATT M-CH/RIT . 0 MNF 50 TUNER FILTER SPCH SET ALC 3 BASIC OPERATION Basic transmit operation Before transmitting, monitor your selected operating frequency to make sure transmitting won't cause interference to other stations on the same frequency. It's good Amateur practice to listen first.

On the HF bands, even if nothing is heard, ask "is the frequency in use" once or twice, before you begin operating on that frequency. D Transmitting q Push [PTT] (microphone) to transmit. ." ." appears. " disappears. Appears while transmitting w Release [PTT] (microphone) to return to receive.

D Output power and Microphone gain settings If a linear amplifier is connected such as the IC-PW1/EURO, set the output power using the ALC meter (see at "Microphone gain setting" as below) to the ALC zone (ALC meter reading should be within this zone), otherwise the linear amplifier will not work properly. NB V/M 1 1.8 NR METER ANF A/B 2 = 3.5 SPLIT 3 7 6 AGC 18 9 VOX 28 F-INP ENT BAND 4 MW 10 5 M-CL 14 7 8 COMP21 SCAN 24 MODE TS RIT GENE P.AMP ATT M-CH/RIT .

0 MNF 50 TUNER FILTER SPCH SET Output power setting q Push and hold M-CH/RIT for 1 sec. to enter the SET quick set mode. w Rotate [M-CH] to select "RF POWER." e Rotate [DIAL] to select the desired output setting. · Output power is displayed in 101 steps (Low, 1100.) [DIAL] [M-CH] r Push M-CH/RIT to exit the quick set mode and reSET turn to normal operation. · Available power SSB/CW/RTTY : 2100 W AM : 125 W* When maximum output power "100" is selected (default) (*Carrier power) Microphone gain setting Microphone gain must be adjusted properly so that your signal does not distort when transmitted. q Select SSB or AM mode. ANF w Push and hold METER for 1 sec. several times to select the ALC meter.

e Push and hold M-CH/RIT for 1 sec. to enter the SET quick set mode. r Rotate [M-CH] to select "MIC GAIN." t Push [PTT] (microphone) to transmit. · Speak into the microphone at your normal voice level. y While speaking into the microphone, rotate [DIAL] so that the ALC meter reading does not go outside the ALC zone. · Microphone gain is adjusted in 1% steps (0% to 100%). When "50" is selected (default) u Release [PTT] (microphone) to return to receive. i Push M-CH/RIT to exit the quick set mode and reSET turn to normal operation. 31 ALC zone BASIC OPERATION 3 Voice synthesizer function The IC-7200 has a voice synthesizer.

This function announces the S-meter level, operating frequency and mode (S-meter level's announcement can be deactivated--p. 77) in a clear, electronically generated voice, in English (or Japanese). NB V/M 1 1.8 q Select the desired parameters to be announced, such as Audio level, speed, language, contents, in the set mode. (p.

77) w Push SPCH to announce the selected contents. · Push again to stop the announcement.



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