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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC 2725. You'll find the answers to all your questions on the ICOM IC 2725 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 2725
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DUAL BAND FM TRANSCEIVER
IC-2725E



Icom Inc.



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Manual abstract:

CAUTION NOTE Equipment damage may occur. Recommended for optimum use. No risk of personal injury, fire or electric shock. **WORD D FEATURES** V/V, U/U simultaneous receive capability Independent controls for each left and right bands Separate controller for flexible installation 50 W* of high transmit output power *VHF band; 35 W for UHF Remote control microphone standard New DMS (Dynamic Memory Scan) system i 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. **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** let objects impede the operation of the cooling fan on the rear panel. **DO NOT** push the PTT when not actually desiring to transmit.

DO NOT allow children to play with any radio equipment containing a transmitter. 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 soon become exhausted.

RWARNING! **NEVER** connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

RWARNING! **NEVER** operate the transceiver while driving a vehicle. Safe driving requires your full attention--anything less may result in an accident. **NEVER** connect the transceiver to a power source of more than 16 V DC. This will damage the transceiver. **AVOID** using or placing the transceiver in direct sunlight or in areas with temperatures below 10°C or above +60°C.

BE CAREFUL! The transceiver will become hot when operating it continuously for long periods. **NEVER** connect the transceiver to a power source using reverse polarity. This will damage the transceiver. **AVOID** setting the transceiver in a place without adequate ventilation. Heat dissipation may be affected, and the transceiver may be damaged. **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. **AVOID** the use of chemical agents such as benzine or alcohol when cleaning, as they can damage the transceiver's surfaces.

NEVER expose the transceiver to rain, snow or any liquids. The transceiver may be damaged.

USE Icom microphones only (supplied or optional). Other manufacturer's microphones have different pin assignments and may damage the transceiver if attached. **NEVER** operate or touch the transceiver with wet hands. This may result in an electric shock or damage the transceiver. **NEVER** place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury. **IMPORTANT!** Detailed installation notes for Icom mobile transceivers to be fitted into vehicles are available. Contact your Icom dealer or distributor. ii **SUPPLIED ACCESSORIES** q w e r t y **TABLE OF**

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CONNECTING TO A DC POWER SOURCE Grommet IC-2725E Use a 13.
8 V DC power supply with at least 15 A capacity. Make sure the ground terminal of the DC power supply is grounded. · CONNECTING TO A DC POWER SUPPLY IC-2725E DC power supply 13.8 V red - black Fuses 20 A _ black + red **WARNING! NEVER** remove the fuse holders.



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to an AC outlet - 12 V battery Supplied DC power cable NOTE: Use terminals for the cable connections.

Crimp 12 V Solder - black red Fuses 20 A See p. 72 for fuse replacement. VI Quick reference guide D DC power supply connection QUICK REFERENCE GUIDE D Antenna installation · Antenna location To obtain maximum performance from the transceiver, select a high-quality antenna and mount it in a good location. A nonradial antenna should be used when using a magnetic mount. Roof-mount antenna (Drill a hole or use a magnetic mount.

) Gutter-mount antenna 12 mm solder solder · Antenna connector The antenna uses a PL-259 connector. · PL-259 CONNECTOR 30 mm Trunk-mount antenna q Slide the coupling ring down. Strip the cable jacket and soft solder. w Strip the cable as shown at left. Soft solder the center conductor. e Slide the connector body on and solder it. r Screw the coupling ring onto the connector body. Coupling ring 10 mm (soft solder) 10 mm Soft solder NOTE: There are many publications covering proper antennas and their installation. Check with your local dealer for more information and recommendations. To antenna VII QUICK REFERENCE GUIDE Now that you have your IC-2725E installed in your car or shack, you are probably excited to get on the air.

We would like to take you through a few basic operation steps to make your first "On The Air" an enjoyable experience. The IC-2725E displays 2 frequencies on left and right bands simultaneously. However, transmission, some switches and microphone keys operation are accepted for the main band only. Push the desired band's [MAIN-BAND] 1. Turning ON the transceiver Before powering up your IC-2725E, you may want to make sure the audio volume and squelch level controls are set in 910 o'clock positions. Push the desired band's (left or right) [MAIN-BAND] to select the main band. · "Q" appears for the main band.

Using the HM-133 Set both [VOL] and [SQL] controls to 910 o'clock positions. You can select the main band from the HM-133. Push Although you have purchased a brand new transceiver, some settings may be changed from the factory defaults because of the QC process.

Resetting the CPU is necessary to start from factory default. MAIN TX MAIN TX M M Push [M/CALL-MW] [M/CALL-MW] MAIN TX again MAIN TX While pushing both [M/CALL-MW], turn power ON. M M While pushing both band's [M/CALL-MW], push [PWR] for 1 sec. to reset the CPU. VIII Quick reference guide I Your first contact 2.

Selecting the main band QUICK REFERENCE GUIDE 3. Selecting the operating frequency band The IC-2725E has 2 m and 70 cm bands for each left and right band. The operating band can be exchanged between them, and the same bands, V/V and U/U settings are also possible. Push the desired band's [MAIN-BAND] for 1 sec. [DIAL] Rotate the desired [DIAL].

MAIN TX MAIN TX 4. Tune the frequency The tuning dial will allow you to dial in the frequency you want to operate. Pages 13 and 14 will instruct you on how to set the tuning speed. Using the HM-133 M M You can directly enter the frequency with the HM-133 keypad for the main band. [EXAMPLE]: Setting frequency to 145.3625 MHz. Push MAIN TX Frequency band initial is displayed. Push the desired band's (left or right) [MAIN-BAND] for 1 sec. then rotate the appropriate band's [DIAL]. · Push the [MAIN-BAND] momentarily to return to frequency indication.

Push MAIN TX Push MAIN TX Push MAIN TX IX QUICK REFERENCE GUIDE 1. Setting duplex Push desired band's [MAIN-BAND] to select the main band. Push [DUP-MONI] once or twice to select minus duplex or plus duplex. MAIN TX DUP Using the HM-133 Plus or minus duplex selection and the repeater tone setting can be made easily via HM-133. Push [DUP 7(TONE)] for minus duplex; [DUP+ 8(TSQLS)] for plus duplex selection, push [FUNC] then [DUP 7(TONE)] to turn the repeater tone ON. Push MAIN TX DUP Push [DUP-MONI]. Push 2. Repeater tone Push [TONE-DTMF] several times until "T" appears, if the repeater requires a subaudible tone to be accessed. Push MAIN TX DUP T MAIN TX DUP MAIN TX T , then Push [TONE-DTMF]. X Quick reference guide I Repeater operation QUICK REFERENCE GUIDE I Programming memory channels The IC-2725E has a total of 212 memory channels (including 10 scan edges and 2 call channels) for storing often used operating frequency, repeater settings, etc.

Any memory channel can be recalled from either left or right band. 3. Writing a memory channel Push and hold the [M/CALL-MW] for 1 sec. to program. · 3 beeps sound · Return to VFO mode automatically after the program.

· Memory channel number automatically increases when continuing to push the [M/CALL-MW] after programming. 1. Setting a frequency In VFO mode, set the desired operating frequency with repeater, tone and tuning steps, etc. Push the desired band's [V/MHz-SCAN] to select VFO. Rotate the same band's [DIAL] to set the desired frequency.

· Set other data, such as repeater tone, duplex information, tuning step), if desired. 2. Selecting a memory channel Push the same band's [M/CALL-MW] for 1 sec., then rotate the [DIAL] to select the desired memory channel. · "!" indicator and memory channel number blink. MAIN TX M Push [M/CALL-MW] for 1 sec. XI QUICK REFERENCE GUIDE Using the HM-133 q In VFO mode, set the desired operating frequency, including offset direction, tone settings, etc. Push [VFO/LOCK] to select VFO. Push [ENT C(T-OFF)] first, then enter the desired operating frequency via the keypad. · Set other data, such as repeater tone, duplex information, tuning step, if necessary.

w Push [FUNC] then [CLR A(MW)]. · "!" indicator and memory channel number blink. Push then , MAIN TX M 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. XII Quick reference guide I PANEL DESCRIPTION I Front panel-- controller q Function display (pgs. 3, 4) w MAIN BAND V/MHz SCAN M/CALL MW PWR SET MAIN TX DUP T SQL DTCS AM MAIN TX DUP T SQL DTCS AM MAIN BAND V/MHz SCAN M/CALL MW BUSY LOWMID M SKIP BUSY LOWMID M SKIP VOL VOL DUAL BAND FM TRANSCEIVER i2725 DIAL SQL DUP MONI TONE DTMF LOW PRIORITY DIAL SQL *The switches w to t are for the MAIN band only. t r e q POWER SWITCH [PWR] Turns power ON and OFF when pushed for 1 sec.



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w SET-LOCK SWITCH [SET·] Enters set mode when pushed.

(p. 55) Switches the lock function ON and OFF when pushed for 1 sec. (p. 15) e OUTPUT POWER PRIORITY SWITCH [LOW-PRIO] Each push changes the output power selection. (p.

20) Starts priority watch when pushed for 1 sec. (p. 46) r TONE-DTMF SWITCH [TONE-DTMF] Each push selects a tone function. (pgs. 23, 51) · Subaudible tone encoder, pocket beep (CTCSS), tone squelch, pocket beep (DTCS), DTCS squelch or tone function OFF can be selected.

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(pgs. 29, 38, 41) 2 1 PANEL DESCRIPTION 1 Function display Left band q w e DUP T SQL r DTCS AM t q w e DUP T SQL r DTCS AM t Right band MAIN TX y MAIN TX y BUSY LOWMID M SKIP BUSY LOWMID M SKIP !2 !1 !0 oi u !2 !1 !0 oi u *The same indications for both the left and right bands are arranged. q MAIN INDICATOR (p. 11) Indicate the main band for transmit and function control. w TRANSMIT INDICATOR Appears while transmitting. (p. 20) Blinks while transmitting with the one-touch PTT function. (p. 21) e DUPLEX INDICATORS (p. 23) "DUP" appears when plus duplex, "DUP " appears when minus duplex (repeater) operation is selected.

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12, 28) Appears when memory mode is selected. !0 S/R F INDICATORS Shows the relative signal strength while receiving signals. (p. 16) Shows the output power level while transmitting. (p. 20) !1 OUTPUT POWER INDICATORS "LOW" appears when low output power; "MID" appears when middle output power is selected. No indicator appears when high output power is selected. 4 1 PANEL DESCRIPTION w MICROPHONE CONNECTOR [MIC] Connects the supplied or an optional microphone. e q +8 V DC output (Max. 10 mA) w Channel up/down e 8 V control IN r PTT t GND (microphone ground) y MIC (microphone input) u GND i Data IN I Main unit q w i q e CONTROLLER CONNECTOR [CONTROLLER] (p.

V) Connects the controller unit with the supplied cable. r COOLING FAN Rotates while transmitting. Also rotates while receiving depending on the setting in initial set mode. (p. 60) t ANTENNA CONNECTOR [ANT] Connects a 50 antenna with a PL-259 connector and a 50 coaxial cable.

ANTENNA INFORMATION For radio communications, the antenna is of critical importance, to maximize your output power and receiver sensitivity. The transceiver accepts a 50 antenna and less than 1:1.5 of Voltage Standing Wave Ratio (VSWR). High SWR values not only may damage the transceiver but also lead to TVI or BCI problems. r t i y u q DATA SOCKET [DATA] Connects a TNC (Terminal Node Controller), etc.

for data communications. · See p. 6 for connection information. 5 PANEL DESCRIPTION y EXTERNAL SPEAKER JACK 1 [SP-1] Connects an 8 speaker. Outputs both left and right bands audio when no external speaker is connected to [SP-2]. See the table below for details. · Audio output power is more than 2.4 W. 1 1 D DATA JACK PIN ASSIGNMENT q e w r u EXTERNAL SPEAKER JACK 2 [SP-2] Connects an 8 speaker. Outputs right band's audio only.

· Audio output power is more than 2.4 W. t y Front panel view i POWER RECEPTACLE [DC13.8V] Accepts 13.8 V DC ±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. D Speaker information Connected speaker No external speakers [SP-1] only [SP-2] only 2 external speakers Left band audio Right band audio Internal speaker (mixed audio) External speaker (mixed audio) Internal speaker External speaker via [SP-1] External speaker External speaker via [SP-2] q DATA IN Input terminal for data transmit. See p. 67 for details on how to toggle data speed between 1200 (AFSK) and 9600 bps (G3RUH, GMSK).

w GND Common ground for DATA IN, DATA OUT and AF OUT. e PTT P PTT terminal for packet operation only. Connect ground to transmit data. r DATA OUT Data out terminal for 9600 bps operation only.



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t AF OUT Data out terminal for 1200 bps operation only.

y P SQL Becomes high (+5 V) when the transceiver receives a signal which opens the squelch. · To avoid unnecessary TNC transmission, connect squelch to the TNC to inhibit transmission when receiving signals. · Keep audio output at a normal level, otherwise a "P SQL" signal will not be output. 6 1 PANEL DESCRIPTION r ACTIVITY INDICATOR Lights red while any key, except [FUNC] and [DTMF-S], is pushed, or while transmitting. Lights green while the one-touch PTT function is in use.

t KEYPAD (pgs. 8, 9) y FUNCTION INDICATOR Lights orange while [FUNC] is activated--indicates the secondary function of switches can be accessed. Lights green when [DTMF-S] is activated--DTMF signals can be transmitted with the keypad. u 2nd FUNCTION SWITCH [FUNC] i DTMF SELECT SWITCH [DTMF-S] (p. 48) o FUNCTION SWITCHES [F-1]/[F-2] (p. 64) Program and recall your desired transceiver conditions. !0 BAND SWITCH [BAND] (p. 11) Push to switches main band between left and right bands. !1 MEMORY/CALL SWITCH [MR/CALL] Push to select memory mode. (p.

12) Push for 1 sec. to select call channel. (p. 37) I Microphone (HM-133*) q w e r t ! ! 0 o i u y Mic element *A different microphone may be supplied depending on version. q VFO/LOCK SWITCH [VFO/LOCK] Push to select VFO mode. (p. 12) Push for 1 sec. to switch the lock function ON and OFF. (p. 15) 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. 21) e UP/DOWN SWITCHES [Y]/[Z] Push either switch to change operating frequency, memory channel, set mode setting, etc. (pgs. 13, 28, 55) Push either switch for 1 sec. to start scanning. (p. 40) 7 Important! All keys on the microphone function for the main band only. PANEL DESCRIPTION 1 1 I Microphone keypad KEY FUNCTION SECONDARY FUNCTION (+key) OTHER FUNCTIONS Switches between opening and closing the In VFO mode enters operating band select(p. 12) squelch.

(p. 16) ing condition. In memory mode enters bank selecting condition. (p. 34) 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. Increases audio output level. (p. 40) Starts and stops tone scanning. (p. 54) (p. 46) Turns the one-touch PTT function ON and OFF. (p. 21) (p.

20) Turns the DTCS squelch ON. (p. 52) (p. 20) Turns the DTCS pocket beep function ON. (p.

52) (p. 20) Turns the DTMF memory encoder function ON. (p. 48) (p. 24) Turns the subaudible tone encoder ON.

(p. 24) (p. 24) Turns the CTCSS pocket beep function ON. (p. 52) (p. 24) Turns the tone squelch function ON. (p. 52) (p. 16) Sends a 1750 Hz tone signal while pushing and holding. (p.

26) After pushing : Transmits the appropriate DTMF code. (pgs. 26, 50) When the DTMF memory encoder is activated, push [0] to [9] to transmit the appropriate DTMF memory contents . (p. 49) 8 1 PANEL DESCRIPTION KEY FUNCTION SECONDARY FUNCTION (+key) OTHER FUNCTIONS Cancels frequency entry. (p. 13) Selects a memory channel for program Cancels the scan or priority watch. ming. (p. 30) (pgs.

40, 46) Advances the memory channel number Exit set mode. (p. 55) when continuously pushed after programming is completed. (p. 30) Enters set mode (p. 55) DTMF memory encoder function OFF. Advances the set mode selection order (p. 49) after entering set mode. (p. 55) Sets the keypad for numeral input. Turns the subaudible tone encoder, pocket After pushing : (p. 13) beep or CTCSS/DTCS tone squelch OFF. Transmits the appropriate Reverses the set mode selection order (pgs. 24, 52) DTMF code. (pgs. 26, 50) after entering set mode. (p. 55) Adjusts the squelch level increments. Mutes the audio. (p.

21) (p. 16) · Mute function is released when any operation is performed. Decreases audio output level. (p. 16) Sends a 1750 Hz tone signal for 0.5 sec. (p. 26) Adjusts the squelch level decrement. Locks the digit keys on the keypad (includ(p. 16) ing the A to D, # and M keys.

(p. 15) 9 PANEL DESCRIPTION 1 1 I Optional Microphones (HM-118N/TN) · HM-118N w q PTT SWITCH Push and hold to transmit; release to receive. ON q e OFF w UP/DOWN SWITCHES [UP]/[DN] Push either switch to change operating frequency, memory channel, set mode setting, etc. Push either switch for 1 sec. to start scanning.

e UP/DN LOCK SWITCH Slide to toggle [UP]/[DN] switches function ON and OFF. r KEYPAD (HM-118TN only) While pushing [PTT], push the desired key to send the DTMF code. · HM-118TN (DTMF) w ON q r e OFF 10 2 SETTING A FREQUENCY D Operating frequency band selection In the default condition, or after resetting the CPU, 2 m band is assigned in the left band, 70 cm band is assigned in the right band. However, the 2 m band can also be assigned into the right, and 70 cm band can also be assigned into the left band. Push the desired band's [MAIN-BAND] for 1 sec.

[DIAL] MAIN TX MAIN TX I Preparation D Turning power ON/OFF Push [PWR] for 1 sec. Push [PWR] for 1 sec. to turn power ON and OFF. D MAIN band The IC-2725E can receive 2 m and 70 cm band signals simultaneously. To activate all functions access or to change frequency via the microphone, you must designate one band as the main band. The transceiver transmits a signal on the main band only. Push the desired band's [MAIN-BAND] M M Frequency band initial is displayed. q Push the desired band's [MAIN-BAND] for 1 sec. · Frequency band initial appears. Push the desired band's [MAIN-BAND] to select the main band.

· "Q" indicates the main band. BAND w Rotate the same band's [DIAL] to select the desired frequency band. · Pushing [Y]/[Z] on the microphone also selects the band. Push [BAND] to toggle the main band between left and right bands. e Push the [MAIN-BAND] to return to frequency indication in the selected frequency band. Note that in this manual, sections beginning with a microphone icon (as at left), designate operation via the HM-133 microphone. 11 SETTING A FREQUENCY D VFO and memory modes BANK 2 z Push [BAND] to select main band. x Push [FUNC], the push [BANK I(MONI)] to select frequency band selecting condition. · The frequency band initial is displayed. The transceiver has 2 basic operating modes: VFO mode and memory mode. Select VFO mode first to set an operating frequency. Push [V/MHz-SCAN] to select VFO mode Push [M/CALL-MW] to select memory mode MAIN TX MAIN TX 2 c Push [Y]/[Z] to select the desired frequency [Y]/[Z] band. v Push [CLR A(MW)] to exit the condition, and return to frequency indication. M M VFO mode is selected "!" indicator appears when memory mode is selected Push the desired band's [V/MHz-SCAN] to select VFO mode.



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· When VFO mode is already selected, the digit below 10 MHz (the digit below 1 MHz or 100 kHz disappear depending on versions) disappear. In this case, push [V/MHz-SCAN] again (or twice or 3 times depending on version). Push [M/CALL-MW] to select memory mode. · "!" indicator appears when memory mode is selected. VFO/LOCK Push [MR/CALL] to select memory mode. · The microphone controls the main band only.

Push [BAND] to toggle the main band, then push [VFO/LOCK] or [MR/CALL], if necessary. Push [VFO/LOCK] to select VFO mode. 12 2 SETTING A FREQUENCY I Using the tuning dial q Rotate the desired band's [DIAL] to set the frequency. · If VFO mode is not selected, push the same band's [V/MHz-SCAN] to select VFO mode. · The frequency changes in the selected tuning steps. (p. 14) Push [V/MHz-SCAN] Rotate the tuning dial I Using the keypad The frequency can be directly set via numeral keys on the microphone. ENT C z Push [BAND] to select the desired band (left or right) as the main band. · Push [VFO/LOCK] to select VFO mode, if necessary. x Push [ENT C(T-OFF)] to activate the keypad for digit input.

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. wTo change the frequency in 1 MHz (10 MHz for some versions) steps, push [V/MHz-SCAN], then rotate [DIAL]. · Pushing [V/MHz-SCAN] for 1 sec. starts scan function. If scan starts, push [V/MHz-SCAN] again to cancel it. MAIN TX MAIN TX [EXAMPLE]: Setting frequency to 145.3625 MHz. Push MAIN TX M M While 1 MHz tuning step is selected, the digit below 100 kHz disappear. While 10 MHz tuning step is selected, the digit below 1 MHz disappear. Push MAIN I Using the [Y]/[Z] keys Push [Y] or [Z] to select the desired frequency. YZ · Push [BAND] to select the desired band (left or right) as the main band in advance. · Pushing [Y]/[Z] for 1 sec. activates a scan. If scan starts, push [Y]/[Z] or [CLR A(MW)] to cancel it. Push MAIN TX Push MAIN TX 13 SETTING A FREQUENCY 2 I Tuning step selection [Tuning steps are the minimum frequency change increments when you rotate [DIAL] or push [Y]/[Z] on the microphone. Independent tuning step for the left and right, as well as each frequency bands can be set for individual tuning convenience. The following tuning steps are available. · 5 kHz · 20 kHz · 10 kHz · 25 kHz · 12.

5 kHz · 30 kHz · 15 kHz · 50 kHz rRotate the same band's [DIAL] to select the desired tuning step. tPush [TONE-DTMF] to exit set mode. SET B 2 z Push [BAND] to select the desired band (left or right) as the main band. · Push [VFO/LOCK] to VFO mode, if necessary. NOTE: For convenience, select a tuning step that matches the frequency intervals of repeaters in your area. q Push the desired band's [MAIN-BAND] to select the main band. · Push the same band's [V/MHz-SCAN] 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. v Push [Y] or [Z] to select the desired tuning step.

b Push [CLR A(MW)] to exit set mode. w Push [SET · Push [SET ·]] to enter set mode. [LOW-PRIO] ePush [SET ·] or [LOW-PRIO] several times until "tS" appears as shown below. MAIN TX M 14 2 SETTING A FREQUENCY I Lock functions To prevent accidental frequency 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 D Frequency lock This function locks [DIAL] and switches electronically and can be used together with the microphone lock function. Push [SET · for 1 sec.] Push [FUNC] then [SQLZ D(16KEY-L)] to switch the microphone keypad lock function ON and OFF. · [PTT], [VFO/LOCK], [MR/CALL], [BAND], [Y], [Z], [F-1], [F-2], [DTMF-S] and [FUNC] on the microphone can be used.

· All switches on the transceiver can be used. · The keypad lock function is released when the power is turned OFF then ON again. MAIN TX MAIN TX M M 2 "L"s appear while the lock function is activated. Push [SET · OFF.] for 1 sec. to turn the lock function ON and · [PTT], [DUP-MONI] (monitor function only), [VOL], [SQL] and [MAIN-BAND] (main band selection only) 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. VFO/LOCK Push [VFO/LOCK] for 1 sec. to switch the lock function ON and OFF. 15 BASIC OPERATION I Receiving q Set the audio level for the main band.

Push the desired band's [MAIN-BAND]. Push [DUP-MONI] for 1 sec. to open the squelch. Rotate the main band's [VOL] to adjust the audio level. Push the [DUP-MONI] for 1 sec. to close the squelch. w Set the squelch level. Rotate the main band's [SQL] fully counterclockwise in advance, then rotate the [SQL] clockwise until the noise just disappears. · When interference is received, rotate the [SQL] clockwise again for attenuator operation. (p.

17) 3 2 3 I Monitor function This function is used to listen to weak signals without disturbing the squelch setting. Push [DUP-MONI] for 1 sec. MAIN TX MAIN TX BUSY M M e Set the operating frequency in the main band. (pgs. 1113) rWhen receiving a signal on the set frequency, squelch opens and the transceiver emits audio. MAIN TX Push [DUP-MONI] for 1 sec. to open the squelch. · Push [MIN-BAND] to select the desired band (left or right) as the main band in advance. · "BUSY" blinks. · Push [DUP-MONI] for 1 sec. again to cancel the function. BUSY M · "BUSY" appears and the S/Rf indicator shows the relative signal strength for the received signal. Appears when receiving a signal. Push [MONI I(BANK)] to open the squelch. MONI I · Push [BAND] to select the desired band (left or right) as the main band in advance. · Push [MONI I(BANK)] again to cancel the function. CONVENIENT! The main band's audio and squelch level can also SQLY/Z be adjusted with [VOLY(TONE-1)]/[VOLZ 0(TONE-2)] D/# and [SQLY D(MUTE)]/[SQLZ #(16KEY-L)], respectively. · "VOL" for audio or "Sql" for squelch appears during set. VOLY/Z Show set level. M/O M NOTE: When the [SQL] adjustment is set too far clockwise, (125 o'clock position) the squelch attenuator is activated.



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To monitor weak signals on the operating frequency, deactivate the squelch attenuator function. See pg. 17 for details. 16 3 BASIC OPERATION I Squelch attenuator The transceiver has an RF attenuator related to the squelch level setting. Approx. 10 dB attenuation is obtained at maximum setting. The squelch attenuator allows you to set a minimum signal level needed to open the squelch. The attenuator function can be deactivated in initial set mode. 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 D Squelch attenuator setting USING INITIAL SET MODE q Turn the transceiver power OFF. wWhile pushing [SET·], turn the power ON to enter initial set mode. While pushing [SET·] push [PWR] to enter initial set mode ePush [SET·] or [LOW-PRIO] to select "Att-On" (squelch attenuator) item. r Rotate the left band's [DIAL] to toggle the function ON and OFF. · Select "OF" to deactivate the squelch attenuator function. MAIN TX MAIN TX M M t Push [PWR] to exit initial set mode. Deep NOTE: The squelch attenuator functions even when the monitor function is in use.

Thus set the [SQL] control within 10 to 12 o'clock position is recommended when using the monitor function. 17 BASIC OPERATION 3 I V/V, U/U simultaneous receive (Para-watch) The IC-2725E can simultaneously receive two signals on the same band, such as 144 MHz band, using the para-watch function. MAIN TX MAIN TX M M qPush either the left or right band's [MAIN-BAND] for 1 sec. to select the frequency band selecting condition. wRotate the same band's [DIAL] to select the desired frequency band.

e Push the [MAIN-BAND] to return to frequency indication. r Set the desired frequency. t Repeat the steps q to r for the other band (left or right). To activate the para-watch function from the HM-133, enter the desired frequencies for each the left and right bands using the direct frequency input capability via the keypad; or perform the following operation. BANK 3 Can be switched between VHF and UHF MAIN TX DUP MAIN TX z Push [FUNC], the push [BANK I(MONI)] to select frequency band selecting condition.

· The frequency band initial appears on the main band. M M [Example] MAIN TX MAIN TX x Push [Y]/[Z] to select the desired frequency band band. [Y]/[Z] c Push [CLR A(MW)] to exit the condition, and return to frequency indication. v Push [VFO/LOCK] to change main band, then repeat the steps z to c for the other band. M M While transmitting on the main band, the sub band's memory channel readout shows the current condition and "Si" indication alternately.

NOTE: · Memory channels are common for the left and right band. · Transmitting during the para-watch operation is possible. However, the sub band's reception is deactivated during transmit as shown in the example at left. 18 3 BASIC OPERATION I Sub band mute/sub band busy beep The sub band mute function automatically cuts out sub band audio signals when both main and sub band signals are received simultaneously. While operating on the main band, a beep sounds to inform you that a signal was received on the sub band.

MAIN TX USING INITIAL SET MODE e Rotate the left band's [DIAL] to select the condition. DISPLAY SUB BAND MUTE BUSY BEEP Sub-OF OFF OFF SUB-OF S OFF ON Sub-On ON OFF SUB-On S ON ON rPush [PWR] momentarily, to exit initial set mode and return to the previous indications. M The display shows that the sub band mute is turned ON and sub band busy beep is turned ON. qWhile pushing [SET· initial set mode. While pushing [SET·] push [PWR] to enter initial set mode], push [PWR] for 1 sec. to enter wPush [SET·] or [LOW-PRIO] until "Sub" appears in the display as shown above. 19 BASIC OPERATION 3 I Transmitting CAUTION: Transmitting without an antenna will damage the transceiver. NOTE: To prevent interference, listen on the channel before transmitting by pushing [DUP-MONI] for 1 sec., or [MONI I(BANK)] on the microphone. q Select the main band.

(p. 11) w Set the operating frequency. (pgs. 1113) · Select output power if desired. See section at right for details.

I Selecting output power The transceiver has 3 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. Push [LOW-PRIO] once or twice to select the output power. S/R F INDICATOR High: Mid: Low: 3 POWER OUTPUT VHF/UHF 50 W/35 W 15 W*/15 W* 5 W*/5 W* *approx. e Push and hold [PTT] to transmit.

· "\$" appears. · The S/R F indicator shows the output power selection. · A one-touch PTT function is available. See p. 21 for details. · "Si" may blink instead of the sub band's memory channel number indication according to the selected frequency band. · The output power can be changed while transmitting. r 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.

The microphone can also be used to select output power. HIGH 4 MID 5 LOW 6 t Release [PTT] to return to receive. IMPORTANT! (for 50/35 W transmission): The IC-2725E is equipped with protection circuit to protect the power amplifier circuit from high SWR (Standing Wave Ratio) and temperature. When a high SWR antenna or no antenna is connected, or when the transceiver temperature becomes extremely high, the transceiver reduces transmit output power to 15 W (approx.) automatically. Push [HIGH 4(DTCS)] for high output power; [MID 5(DTCSS)] for middle output power; and [LOW 6(DTMF)] for low output power. · The output power can be changed via the microphone during receive only. 20 3 BASIC OPERATION I One-touch PTT function The PTT switch can be operated as a one-touch PTT switch (each push toggles 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. 61 for details. z Push [FUNC] then [PRIO 3(PTT-M)] to turn the one-touch PTT function ON. · The activity indicator lights green. I Audio mute

function This function temporarily mutes the audio without disturbing the volume setting.

MUTE Push [FUNC] then [SQLY D(MUTE)] to mute audio signals.



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· The memory channel number indicator shows the current condition and "Si" indications alternately. · Push [CLR A(MW)] (or any other key) to cancel the function. MAIN TX MAIN TX PTT-M x Push [PTT] to transmit and push again to receive. · A beep sounds when transmission is started and a long beep sounds when returning to receive.

· "\$" blinks when transmitting with the one-touch PTT function. MAIN TX BUSY M M Shows the current condition and "Si" indication alternately. M TX indicator blinks c Push [FUNC] then [PRIO 3(PTT-M)] to turn the one-touch PTT function OFF. · The activity indicator goes out. 21 REPEATER OPERATION I General · Repeater operation flow chart Repeaters allow you to extend the operational range of your radio because a repeater has much higher output power than the typical transceiver. Normally, a repeater has independent frequencies for each receiver and transmitter. A subaudible tone may also be required to access a repeater Reference amateur radio hand books and local ham magazines for details of local repeaters such as repeater input/output frequencies and locations. Repeater example; Receives the 145.950 MHz signal and the detected audio signals are transmitted on 145.30 MHz simultaneously.

4 3 4 Setp 1: Set the desired band to operate the repeater. Setp 2: Set the desired receive frequency (repeater output frequency). Setp 3: Set the duplex (shifting) direction (duplex or +duplex). - Set the offset frequency (shifting value), if required. Setp 4: Set the subaudible tone (repeater tone) encoder function ON. - Set the subaudible tone frequency, if required. · Repeater settings can be stored into a memory channel. Station A: Tx: 145.350 MHz Rx: 145.950 MHz Station B: Tx: 145.350 MHz Rx: 145.950 MHz 22 4 REPEATER OPERATION I Accessing a repeater q Set the receive frequency (repeater output frequency) on the main band. (pgs. 1113) w Push [DUP-MONI] one or two times, to select minus duplex or plus duplex. · "DUP" or "DUP" appears to indicate the transmit frequency for minus shift or plus shift, respectively.

MAIN TX DUP 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. 27) is set correctly. t Release [PTT] to receive.

MAIN TX DUP T MAIN TX DUP T M M M While receiving "DUP" or "DUP" appear Push [DUP-MONI] once or twice While transmitting e Push [TONE-DTMF] several times to turn ON the subaudible tone encoder, according to repeater requirements. · "T" appears · 88.5 Hz is set as the default; refer to p. 25 for tone frequency settings. · When the repeater requires a different tone system, see p. 26. MAIN TX DUP T y Push [DUP-MONI] to check whether the other station's transmit signal can be received directly. u To return to simplex operation, push [DUP-MONI] once or twice, to clear the "DUP" or "DUP" indicator. i To turn OFF the subaudible tone encoder, push [TONE-DTMF] several times until no tone indicators appear. M "T" appears Push [TONE-DTMF] once or twice 23 REPEATER OPERATION z Set the receive frequency (repeater output frequency) on the main band.

(pgs. 1113) x Push [DUP 7(TONE)] to select minus duplex; push [DUP+ 8(TSQLS)] to select plus duplex. Push MAIN TX DUP 4 DUP 7 DUP+ 8 SIMP 9 m Push [SIMP 9(TSQL)] to return to simplex operation. · "DUP" or "DUP" indicator disappears. , To turn OFF the subaudible tone encoder, push [FUNC] then [ENT C(T-OFF)]. 4 DUP Push MAIN TX c Push [FUNC] then [DUP 7(TONE)] to turn ON the subaudible tone encoder according to repeater requirements. · Refer to p. 25 for the tone frequency setting. · When the repeater requires a different tone system, see p. 26.

Push then . , MAIN TX DUP T v Push and hold [PTT] to transmit. b Release [PTT] to receive. n Push [MONI 1(BANK)] to check whether the other station's transmit signal can be received directly. 24 4 REPEATER OPERATION z Set the main band, 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. I Subaudible tones (Encoder function) D Subaudible tones USING SET MODE SET B q Select the main band, mode/channel you wish to set the subaudible tones to, such as VFO mode or memory/call channel. w Push [SET-] to enter set mode. e Push [SET-] or [DUP-MONI] several times until "T" and "rt" appear; or until "T SQL" and "Ct" appear 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. 49) MAIN TX T x Push [SET B(D-OFF)] to enter set mode. c Push [SET B(D-OFF)] or [ENT C(T-OFF)] several times until "T" and "rt" appears; or until "T SQL" 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. 49) MAIN TX T Push M M "T" and "rt" appear [SET-] r Rotate the main band's [DIAL] to select and set the desired subaudible frequency. t Push [TONE-DTMF] 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.

25 v Push [Y] or [Z] to select and set the desired subaudible tone frequency. · 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 REPEATER OPERATION D DTMF tones DTMF-S 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. Push [DTMF-S], then push the keys of the desired 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.



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(p. 49) · Push [DTMF-S] again to return the keypad to normal function control. Push , 4 M x Push [M(TONE-1)] to transmit a 1750 Hz tone call signal for 0.5 sec.; push and hold TONE-2 [0(TONE-2)] to transmit a 1750 Hz tone call signal for an arbitrary period. · The function indicator goes out automatically. Push then , or . then push desired keys. For your convenient! The transceiver has 14 DTMF memory channels for autopatch operation. See p. 47 for details. 26 4 REPEATER OPERATION I Offset frequency USING SET MODE SET B When communicating through a repeater, the transmit frequency is shifted from the receive frequency by an amount determined by the offset frequency. Independent offset frequencies can be set for each operating frequency. q Push [MAIN-BAND] to select the desired band (left or right) as the main band. · Push [MAIN-BAND] for 1 sec. then rotate the [DIAL] to select the desired frequency band if necessary. z Push [BAND] to select the desired band (left or right) as the main band. · Enter the desired frequency via the keypad if necessary. x Select the desired mode/channel you wish to set the offset frequency to, such as VFO mode or memory/call channel. · The offset frequency can be independently programmed into each mode or channel. w Select the desired mode/channel you wish to set the offset frequency to, such as VFO mode or memory/call channel. · The offset frequency can be independently programmed into each mode or channel. c Push [SET B(D-OFF)] to enter set mode. v Push [SET B(D-OFF)] or [ENT C(T-OFF)] until "DUP" and offset frequency appear. MAIN TX DUP e Push [SET.] to enter set mode. r Push [SET.] or [LOW-PRIO] until "DUP" and offset frequency appear. MAIN TX DUP Push M b Push [Y] or [Z] to set the desired offset. M · Direct frequency entry from the keypad is not possible. [LOW-PRIO] [SET.] "DUP" and offset frequency appear n Push [CLR A(MW)] to exit set mode. NOTE: The offset 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 offset frequency permanently, overwrite the channel information. t Rotate the main band's [DIAL] to set the desired offset frequency. @@@@1113, duplex direction (p. 23) and offset (p. @@@23, 25, 51, 52) and skip information* (p. 44). @@x Push [MR/CALL] to select memory mode. @@ activates a scan. @@x Push [MR/CALL] to select memory mode. c Push [ENT C(T-OFF)] to activate the keypad for numeral input. @@@@q Set the desired frequency in the desired band (left or right). Push the desired band's [V/MHz-SCAN] to select VFO mode. Set the frequency using the same band's [DIAL]. Set other data (e. g. tone frequency, duplex information, etc.) if required. @@@@v Push [FUNC] then [CLR A(MW)] for 1 sec. to program. @@@@ Push [VFO/LOCK] to select VFO mode. Set the frequency using the keypad. Set other data (e.g. @@x Push [FUNC] then [CLR A(MW)] momentarily. c Push [Y] or [Z] to select the memory channel. @@@@w Push [M/CALL-MW] for 1 sec. @@x Select the memory/call channel to be transferred. @@ Push [MR/CALL] for 1 sec. then push [Y]/[Z] to select the call channel.

c 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: Push M/CALL to select memory mode. Rotate MW MAIN TX for selecting memory channel. MAIN TX DUP T Push M/CALL MW for 1 sec. MAIN TX DUP T M M M HM-133 operation: Push to select memory mode. Select memory channel. Push then push for 1 sec.

31 MEMORY OPERATION D Memory/call/memory q Select the memory/call channel to be transferred. @@w Push the same band's [M/CALL-MW] for 1 sec. · "!" 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] for 1 sec. then push [Y]/[Z] to select the desired call channel. x Push [FUNC], then [CLR A(MW)] momentarily. · "!" indicator and " " indication blink, and shows VFO conditions. 5 e Rotate the [DIAL] to select the target memory channel. · "C1" or "C2" blinks when the call channel is selected. · Scan edge channels, 1A/1b, 2A/2b, 3A/3b, 4A/4B, 5A/5b can also be selected. c Push [Y]/[Z] to select the target memory channel. · "C1" or "C2" blinks when the call channel is selected. · Scan edge channels can also be selected. · The keypad cannot be used for the selection. r Push the [M/CALL-MW] for 1 sec. to transfer the selected memory/call channel contents to the target memory. · The targeted memory and transferred contents are indicated. 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: Select the memory channel, then push MAIN TX DUP T MAIN TX DUP T M/CALL MW for 1sec. Select the target channel. MAIN TX Push M/CALL MW for 1 sec. MAIN TX DUP T M M M M HM-133 operation: Select the memory channel, push then push . Push then push for 1 sec. 32 5 MEMORY OPERATION I Memory clearing Contents of programmed memories can be cleared (blanked), if desired. q Push [V/MHz-SCAN] to select VFO mode in the desired band (left or right). w Push the same band's [M/CALL-MW] for 1 sec. · "!" indicator and the memory channel number blink. r Push the same band's [M/CALL-MW] momentarily, then push the [M/CALL-MW] again for 1 sec. This operation must be performed within 1.5 sec. · 3 beeps sound, then the frequency is cleared. · "!" indicator and the channel number blink continuously. · When clearing the call channel, the current VFO conditions are re-programmed into the call channel automatically. e Rotate the same band's [DIAL] to select the memory channel to be cleared. · Memory channels not yet programmed are blank. t Push the same band's [MAIN-BAND] or [V/MHz-SCAN], to return to VFO mode.

NOTE: Be careful!-- the contents of cleared memories CANNOT be recalled. [EXAMPLE]: Clearing memory channel 20. Push V/MHz SCAN to select VFO. Push M/CALL MW for 1 sec. MAIN TX Rotate for selecting memory channel. MAIN TX MAIN TX M M M Push M/CALL MW momentarily, then push M/CALL MW again for 1 sec.



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Push any switch, except MAIN TX M/CALL MW. "Beep" Beep" Beep" 33 MAIN TX M M MEMORY OPERATION 5 I Memory bank selection The IC-2725E has a total of 10 banks (A to J). Regular memory channels, 000 to 199, are assigned into the desired bank for easy memory management. q Push the desired band's [M/CALL-MW] several times to select memory mode, if desired.

w Push the same band's [MAIN-BAND] for 1 sec. to select memory bank condition. · Bank initial blinks BANK z Push [MR/CALL] to select memory mode, if desired. x Push [FUNC] then [MONI 1(BANK)] to select memory bank condition. · Bank initial blinks c Push [Y]/[Z] to select the desired bank, A to J. [Y]/[Z] · Only programmed memory bank can be selected. 5 v Push [CLR A(MW)] to set the bank. · Initial stops blinking. Push [MAIN-BAND] for 1 sec. to select memory bank.

MAIN TX b Push [Y]/[Z] to select the desired contents in the bank. · No channel numbers are displayed for memory bank operation. M e Rotate the same band's [DIAL] to select the desired bank, A to J. · Banks that have no programmed contents are skipped. n To return to regular memory condition, push [FUNC], [MONI 1(BANK)] then push [CLR A(MW)].

Bank initial appears r Push the [MAIN-BAND] to set the bank. · Initial stops blinking. t Rotate the [DIAL] to select the contents in the bank. · No channel numbers are displayed for memory bank operation. y To return to regular memory condition, push the [MAIN-BAND] for 1 sec.

then push the [MAIN-BAND] momentarily again. 34 5 MEMORY OPERATION I Memory bank setting q Push the desired band's [M/CALL-MW] several times to select memory mode, then select the desired memory channel via the same band's [DIAL]. w Push the same band's [MAIN-BAND] for 1 sec. · " " indication blinks as follows. MAIN TX y Push the [MAIN-BAND] for 1 sec. then push the [MAIN-BAND] momentarily again to return to regular memory condition. u Repeat steps q to y to set another memory channel into the same or another bank. z Push [MR/CALL] then select the desired memory channel via [Y]/[Z] or keypad. · Push [BAND] to select the desired band (left or right) as the main band, in advance. MW BANK M e Push the [MAIN-BAND] again to set the channel to bank setting stand-by condition.

· " " indication blinking stops. x Push [FUNC] then [MONI 1(BANK)]. · " " indication blinks. r Push the [M/CALL-MW] for 1 sec. then rotate the [DIAL] to select the desired bank to be set. · Bank initial blinks as follows. MAIN TX c Push [CLR A(MW)] to set the channel to bank [Y]/[Z] setting stand-by condition.

· " " indication stops blinking. v Push [FUNC] then [CLR A(MW)] then push [Y]/[Z] to select the desired bank to be set. · Bank initial blinks. b Push [CLR A(MW)] to set the channel into the bank. M · "!" and bank initial stops blinking. t Push the [M/CALL-MW] again to set the channel into the bank. · "!" and bank initial blinking stops. n Push [FUNC], [MONI 1(BANK)] then [CLR A(MW)] to return to regular memory channel condition.

m Repeat steps z to n to set an another memory channel into the same or another bank. 35 MEMORY OPERATION 5 I 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 in the desired band (left or right). Push the desired band's [M/CALL-MW] several times to select memory mode.

Push the same band's [MAIN-BAND] for 1 sec. then rotate the same band's [DIAL] to select the desired memory bank. · Bank initial blinks. r Push the [M/CALL-MW] again. · Bank initial or " " indication stops blinking. t Push the [MAIN-BAND] for 1 sec. then push the [MAIN-BAND] momentarily again to return to regular memory condition. y Repeat steps q to t for transferring or erasing an another banks contents. z Select the desired bank contents in the main band. Push [MR/CALL] to select memory mode.

Push [FUNC], [MONI 1(BANK)] then select MW the desired memory bank via [Y]/[Z]. Push [CLR A(MW)] to select the bank then select the desired contents via [Y]/[Z]. [Y]/[Z] x Push [FUNC] then [CLR A(MW)]. BANK · Bank initial blinks. 5 Push the [MAIN-BAND] to select the bank then rotate the [DIAL] to select the desired contents. · Bank initial stops blinking. w Push the [M/CALL-MW] for 1 sec. · Bank initial blinks. MAIN TX c Push [Y]/[Z] to select the desired bank initial to transfer or erase. · Select " " indication when erasing the contents from the bank.

v Push [CLR A(MW)]. · Bank initial or " " indication stops blinking. M e Rotate the [DIAL] to select the desired bank initial to transfer or erase. · Select " " indication when erasing the contents from the bank. b Push [FUNC], [MONI 1(BANK)] then [CLR A(MW)] to return to regular memory condition.

n Repeat steps z to b for transferring or erasing an another banks contents. 36 6 CALL CHANNEL OPERATION I Call channel transferring q Push the desired band's [M/CALL-MW] several times then rotate the same band's [DIAL] to select the desired call channel. · "C1" or "C2" appears. I Call channel selection Call channel is pre-programmed memory channel that can be accessed by simply pushing call channel button. Push [M/CALL-MW] several times to select the call channel mode then rotate the same band's [DIAL] to select the dePush [M/CALL-MW] several times sired call channel.

to select call channel. MAIN TX w Push the [M/CALL-MW] for 1 sec., then rotate the [DIAL] to select the memory channel to transfer the contents to. · "!" indicator and memory channel number blink. · To transfer to the VFO, select " " with the [DIAL] then push the [M/CALL-MW] for 1 sec. M "C1" or "C2" appears · "C1" or "C2" appears instead of memory channel number indication. · Push the [M/CALL-MW] several times to select memory mode, or push the same band's [V/MHz;SCAN] to select VFO mode. e Push the [M/CALL-MW] for 1 sec. to transfer the contents. z Push [MR/CALL] for 1 sec.

then push [Y]/[Z] to select the desired call channel in the main band. x Push [FUNC], [CLR A(MW)] momentarily, then push [Y]/[Z] to select the memory channel to transfer the contents to.



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