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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F3022. You'll find the answers to all your questions on the ICOM IC-F3022 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-F3022
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INSTRUCTION MANUAL

VHF TRANSCEIVERS

IC-F3022T/S

UHF TRANSCEIVERS

IC-F4022T/S

icom Inc.



The photo shows the 10-key version VHF transceiver.



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Manual abstract:

EXPLICIT DEFINITIONS DEFINITION Personal injury, fire hazard or electric shock RWARNING may occur. CAUTION NOTE Equipment damage may occur. If disregarded, inconvenience only. No risk of personal injury, fire or electric shock. WORD DO NOT push [PTT] when not actually desiring to transmit. AVOID using or placing the transceiver in direct sunlight or in areas with temperatures below 25°C or above +55°C. The basic operations, transmission and reception of the transceiver are guaranteed within the specified operating temperature range. However, the LCD display may not be operate correctly, or show an indication in the case of long hours of operation, or after being placed in extremely cold areas. Icom, Icom Inc. and the logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia and/or other countries. i DO NOT modify the transceiver for any reason. @@The transceiver construction is water resistant, not waterproof. @@@@@i TABLE OF CONTENTS

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clip (q), and slide the belt clip in the direction of the arrow (w). w q q Battery release button w 2 ACCESSORIES i Jack cover Attach the jack cover when the optional speaker-microphone or headset is not used. To attach the jack cover: q Attach the jack cover to the [MIC/SP] jack. w Tighten the screws. 1 1 To detach the jack cover: q Unscrew the screws using a phillips screwdriver. w Detach the jack cover for the speaker-microphone or headset connection.

[MIC/SP] jack q q w Jack cover CAUTION! · Attach the jack cover when the optional speaker-microphone or headset is not used. · Use the supplied screws only. 3 2 q w e r t PANEL DESCRIPTION I Front panel !0 e DEALER-PROGRAMMABLE KEY [Side1] Desired function can be programmed by your dealer. (p. 7) r PTT SWITCH [PTT] Push and hold to transmit; release to receive. t DEALER-PROGRAMMABLE KEYS [Side2]/[Side3] Desired functions can be programmed independently by your dealer. (p. 7) y 10-KEYPAD (Depending on version) The keypad allows you to enter digits to: · Select memory channels · Select tone channels · Select DTMF codes (during transmit) · Set TX codes · Start up with the password o Speaker Microphone i u y q ANTENNA CONNECTOR Connects the supplied antenna. w DEALER-PROGRAMMABLE KEY [Emer] Desired function can be programmed by your dealer. (p. 7) u DEALER-PROGRAMMABLE KEYS [P0] to [P3] Desired functions can be programmed independently by your dealer. (p. 7) i FUNCTION DISPLAY (p. 6) Displays a variety of information such as an operating channel number/name, 5-tone code, DTMF numbers, selected function, etc. 4 PANEL DESCRIPTION 2 o EXTERNAL MICROPHONE/SPEAKER JACK Connect an optional speaker-microphone or headset.

NOTE: Connect or disconnect the optional equipment after the transceiver is turned OFF. 2 Jack cover NOTE: Attach the jack cover when the optional equipment is not used. See (p. 3) for details. !0 VOLUME CONTROL [VOL] Rotate to turn the power ON/OFF and adjusts the audio level. 5 2 PANEL DESCRIPTION I Function display qw e r t yu i o !0 y SCRAMBLER INDICATOR Appears when the voice scrambler function is activated. u BELL INDICATOR Appears/blinks when the specific 5-tone code is received, according to the pre-programming. i KEY LOCK INDICATOR Appears during the key lock function is ON. o BATTERY INDICATOR Appears or blinks when the battery power decreases to a specified level. !0 ALPHANUMERIC DISPLAY Displays an operating channel number, channel name, Set mode contents, DTMF code, etc. q TRANSMIT INDICATOR Appears while transmitting. w BUSY INDICATOR Appears while the channel is busy. e SIGNAL STRENGTH INDICATOR Indicates relative signal strength level. r LOW POWER INDICATOR Appears when low output power is selected. · When the battery power decreases to a specified level, low power is selected automatically.

t AUDIBLE INDICATOR Appears when the channel is in the 'audible' (unmute) condition. @@@@CH UP AND DOWN KEYS Push to select an operating channel. @@(p. @@(pgs. 13, 14) Push to select a DTMF channel after pushing [DTMF Autodial]. @@@@In case of transmission during scan, scanning will be cancelled. When the power ON scan function is turned ON; Push to pause scanning, then resumes scanning after passing a specified time period. In case of transmission during scan, scanning will be cancelled. Push and hold this key for 1 sec. to indicate the scan group, then push [CH Up] or [CH Down] to select the desired group.

SCAN B KEY Push to start and cancel scanning operation. In case of transmission during scan, scanning will be paused. Then resumes scanning after passing a specified time period. Push and hold this key for 1 sec. to indicate the scan group, then push [CH Up] or [CH Down] to select the desired group.

SCAN ADD/DEL (TAG) KEY Push to add or delete the selected channel to/from the scan group.



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2 7 2 PANEL DESCRIPTION TALK AROUND KEY Push to turn the talk around function ON and OFF. · The talk around function equalizes the transmit frequency to the receive frequency for transceiver-to-transceiver communication. PRIO A/B KEYS Push to select Priority A or Priority B channel. Push and hold [Prio A (Rewrite)] or [Prio B (Rewrite)] for 1 sec.

to reassign the operating channel to Priority A or Priority B channel. MR-CH 1/2/3/4 KEYS Push to select memory channels 1 to 4 in the operating zone directly. MONI KEY Mute and release the CTCSS (DTCS) or 5-tone squelch mute. Open any squelch/deactivate any mute while pushing this key. LOCK KEY Push and hold for 1 sec. to electronically lock all programmable keys except the following: [Call] (incl. Call A and Call B), [Moni] and [Emergency]. Push and hold for 1 sec. again to turn the lock function OFF. HIGH/LOW KEY Push to select the transmit output power temporarily or permanently, depending on the pre-setting.

· Ask your dealer for the output power level for each selection. WIDE/NARROW KEY Push to toggle the IF bandwidth between wide and narrow. DTMF AUTODIAL KEY Push to enter the DTMF channel selection mode. Then select the desired DTMF channel using [CH Up]/[CH Down]. After selecting the desired DTMF channel, push this key to transmit the DTMF code. RE-DIAL KEY Push to transmit the last-transmitted DTMF code. CALL KEYS Push to transmit a 5-tone. · Call transmission is necessary before you call another station depending on your signaling system. · [Call A] and/or [Call B] may be available when your system employs selective 'Individual/Group' calls. Ask your dealer which call is assigned to each key.

C.TONE Cof channel selections are available. Methods may differ according to your system set up. NON-ZONE TYPE: Push [CH Up] or [CH Down] to select the desired operating channel, in sequence; or, push one of [MR-CH 1] to [MR-CH 4] keys to select a channel directly. ZONE TYPE: Push [Zone], then push [CH Up] or [CH Down] to select the desired zone.

AUTOMATIC SCAN TYPE: Channel setting is not necessary for this type. When turning power ON, the transceiver automatically starts scanning. Scanning stops when receiving a call. I Call procedure When your system employs tone signaling (excluding CTCSS and DTCS), the call procedure may be necessary prior to voice transmission. The tone signaling employed may be a selective calling system which allows you to call specific station(s) only and prevent unwary packs with Icom radios or Icom charger.

Only Icom battery packs are tested and approved for use and charge with Icom radios or Icom charger. Using third-party or counterfeit battery packs or charger may cause smoke, fire, or cause the battery to burst. R DANGER! NEVER use or leave battery packs in areas with temperatures above +60°C. High temperature buildup in the battery, such as could occur near fires or stoves, inside a sun heated car, or in direct sunlight may cause the battery to rupture or catch fire. Excessive temperatures may also degrade battery performance or shorten battery life. R DANGER! DO NOT expose the battery to rain, snow, seawater, or any other liquids. Do not charge or use a wet battery. If the battery gets wet, be sure to wipe it dry before using. The battery is not waterproof. R DANGER! NEVER incinerate used battery packs since internal battery gas may cause them to rupture, or may cause an explosion.

R DANGER! NEVER solder the battery terminals or NEVER modify the battery pack. @ @ R DANGER! Use the battery only with the transceiver for which it is specified. @ @ R DANGER! @ @ @ @ DO NOT hammer or otherwise impact the battery. @ @ Battery damage may not be visible on the outside of the case.

@ @ @ @ @ WARNING! @ @ WARNING! @ @ @ @ CAUTION! Always use the battery within the specified temperature range for the transceiver (25°C to +55°C) and the battery itself (20°C to +60°C). Using the battery out of its specified temperature range will reduce the battery's performance and battery life.

Please note that the specified temperature range of the battery may exceed that of the transceiver. In such cases, the transceiver may not work properly because it is out of its operating temperature range. CAUTION! Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above +45°C) for an extended period of time. If the battery must be left unused for a long time, it must be detached from the radio after discharging.

You may use the battery until the battery indicator shows half-capacity, then keep it safely in a cool dry place with the temperature between 20°C to +25°C. D Charging caution R DANGER! NEVER charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun heated car, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging. WARNING! DO NOT charge or leave the battery in the battery charger beyond the specified time for charging. If the battery is not completely charged by the specified time, stop charging and remove the battery from the battery charger.

Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture. WARNING! NEVER insert the transceiver (battery attached to the transceiver) into the charger if it is wet or soiled. This could corrode the battery charger terminals or damage the charger. The charger is not waterproof. CAUTION! DO NOT charge the battery outside of the specified temperature range: BC-160 (0°C to +45°C).

Icom recommends charging the battery at +20°C. The battery may heat up or rupture if charged out of the specified temperature range. Additionally, battery performance or battery life may be reduced. 4 17 4 BATTERY CHARGING I Optional battery chargers See each instruction manual for details of the charger

LED indication, operation, etc. i AD-106 installation q Install the AD-106 desktop charger adapter into the holder space of the BC-119N/BC-121N. w Connect the plugs of the BC-119N/BC-121N to the AD-106 desktop charger adapter with the connector, then install the adapter into the charger with the supplied screws. q AD-106 Connectors i Rapid charging with the BC-160 The optional BC-160 provides rapid charging of optional LiIon battery packs. · An AC adapter (may be supplied with BC-160 depending on version) or the DC power cable (OPC-515L/CP-17L) is additionally required. AC adapter (Not supplied with some versions.) Battery pack Transceiver Turn power OFF w Screws supplied with the charger adapter Plugs Optional OPC-515L (for 13.

8 V power source) or CP-17L (for 12 V cigarette lighter socket) can be used instead of the AC adapter. 18 BATTERY CHARGING i Rapid charging with the BC-119N+AD-106 The optional BC-119N provides rapid charging of battery packs.



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The following items are additionally required. · AD-106 charger adapter · An AC adapter (may be supplied with BC-119N depending on version) or the DC power cable (OPC-515L/CP-17L). Transceiver Turn power OFF Battery pack 4 i Rapid charging with the BC-121N+AD-106 The optional BC-121N allows up to 6 battery packs to be charged simultaneously. The following items are additionally required. · Six AD-106 charger adapters · An AC adapter (BC-157) or the DC power cable (OPC-656) Transceiver Turn power OFF Battery pack AD-106 charger adapters are installed in each slot. 4 AC adapter (Purchase separately) AC adapter (Not supplied with some versions.) Optional OPC-515L (for 13.8 V power source) or CP-17L (for 12 V cigarette lighter socket) can be used instead of the AC adapter.

AD-106 charger adapter is installed in BC-119N. DC power cable (OPC-656) (Connect with the DC power supply; 13.8 V/at least 7 A) 19 4 BATTERY CHARGING IMPORTANT!: Battery charging caution Ensure the guide lobs on the battery pack are correctly aligned with the guide rails inside the charger adapter. (This illustration is described with the BC-160.) Lobs Guide rail 20 BATTERY CASE 1 Optional battery case (BP-240) When using the optional battery case, install 6 × AAA (LR03) size alkaline batteries as illustrated at right.

q Unhook the battery cover release hook (q), and open the cover in the direction of the arrow (w). (Fig.1) w Then, install 6 × AAA (LR03) size alkaline batteries. (Fig.2) · Install the alkaline batteries only. · Be sure to observe the correct polarity. · Do not pin the ribbon under the batteries. 5 4 5 Fig.1 w BP-240 q Fig.2 e Fit the cover in the direction of the arrow (e), then close (r). And hook the battery cover release hook until it makes a 'click' sound (t). @@Also, do not mix new and old batteries together. · Keep battery contacts clean. It's a good idea to clean battery terminals once a week. @@ · Never expose a detached battery case to water.

If the battery case gets wet, be sure to wipe it dry before using it. @@(p. @@And insert the transceiver into the belt clip until the base clip inserted fully into the groove. 1 MB-93 contents Qty. q Belt clip

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..... 1 w Base clip ...

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..... 1 q w I Attaching q Release the battery pack if it is attached. (p. 2) w Slide the base clip in the direction of the arrow until the base clip is locked and makes a 'click' sound.

r Once the transceiver is locked in place, it swivels as illustrated below. Once the transceiver is locked in place, it will swivel 360 degrees. 22 OPTIONAL SWIVEL BELT CLIP 6 I Detaching q Turn the transceiver upside down in the direction of the arrow and pull out from the belt clip. w Release the battery pack if it is attached. (p.

@@@The same as supplied with the transceiver. @@ · UT-109R/UT-110R* VOICE SCRAMBLER UNITS Non-rolling type (UT-109R)/Rolling type (UT-110R)* voice scrambler unit provides higher communication security. *You can use the UT-110R as Non-rolling type. *1 Operating periods are calculated under the following conditions; TX : RX : standby = 5 : 5 : 90 *2 Operating period depends on the alkaline cells used. D CHARGERS ·BC-119N DESKTOP CHARGER + AD-106 CHARGER ADAPTER + BC-145 AC ADAPTER For rapid charging of battery packs.

An AC adapter is supplied with the charger depending on versions. Charging time: approx. 2 hours when BP-231 is attached. ·BC-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER (6 pcs.) + BC-157 AC ADAPTER For rapid charging of up to 6 battery packs (six AD-106's are required) simultaneously. An AC adapter should be purchased separately. Charging time: approx. 2 hours when BP-231 is attached. ·BC-160 DESKTOP CHARGER + BC-145 AC ADAPTER For rapid charging of battery packs. An AC adapter is supplied with the charger depending on versions.

Charging time: approx. 2 hours when BP-231 is attached. 24 D DC CABLES · CP-17L CIGARETTE LIGHTER CABLE Allows charging of the battery pack through a 12 V cigarette lighter socket. (For BC-119N) · OPC-515L/OPC-656 DC POWER CABLES Allows charging of the battery pack using a 13.8 V power source instead of the AC adapter. OPC-515L: For BC-119N OPC-656 : For BC-121N OPTIONS D OTHER OPTIONS · SP-13 EARPHONE Provides clear receive audio in noisy environment. · HM-158L/159L SPEAKER-MICROPHONE Combination speaker-microphone that provides convenient operation while hanging the transceiver from your belt. · HS-94/HS-95/HS-97 HEADSET + VS-1L VOX/PTT CASE HS-94 : Ear-hook type HS-95 : Neck-arm type HS-97 : Throat microphone VS-1L : VOX/PTT switch box for hands-free operation, etc. · FA-SC25V/FA-SC55V/ FA-SC25U/FA-SC57U/FA-SC72U ANTENNAS FA-SC25V: 136150 MHz FA-SC55V: 150174 MHz FA-SC25U: 400430 MHz FA-SC57U: 430470 MHz FA-SC72U: 470520 MHz · FA-SC56VS/FA-SC57VS/FA-SC73US STUBBY ANTENNAS FA-SC56VS: 150162 MHz FA-SC57VS: 160174 MHz FA-SC73US: 450490 MHz Some options may not available in some countries. Ask your dealer for details.

7 7 25 8 DOC DECLARATION OF CONFORMITY We Icom Inc. Japan 1-1-32, Kamiminami, Hirano-ku Osaka 547-0003, Japan Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed. Kind of equipment: Type-designation: VHF PMR TRANSCEIVER 0168 3rd Mar. 2006 Place and date of issue iC- f3022t/f3022s Authorized representative name Version (where applicable): This compliance is based on conformity with the following harmonised standards, specifications or documents: i) EN 60950-1 2001 ii) EN 301 489-1 V1.4.

1 (August 2002) iii) EN 301 489-5 V1.3.1 (August 2002) iv) EN 300 086-2 (March 2001) v) EN 300 219-2 (March 2001) vi) EN 300 113-2 (April 2002) vii) H. Ikegami General Manager Signature CE versions of the IC-F3022T/S and the IC-F4022T/S which display the "CE" symbol on the serial number seal, comply

with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/EC. 26 DOC 8 DECLARATION OF CONFORMITY We Icom Inc.

Japan 1-1-32, Kamiminami, Hirano-ku Osaka 547-0003, Japan Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed. Kind of equipment: Type-designation: UHF PMR TRANSCEIVER 0168 21th Apr. 2006 Place and date of issue 8 Authorized representative name iC- f4022t/f4022s 400 470 MHz 6.25 kHz/12.5 kHz/ 20 kHz/25 kHz Version (where applicable): This compliance is based on conformity with the following harmonised standards, specifications or documents: i) EN 60950-1 2001 ii) EN 301 489-1 V1.



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4.1 (August 2002) iii) EN 301 489-5 V1.3.1 (August 2002) iv) EN 300 086-2 (March 2001) v) EN 300 219-2 (March 2001) vi) EN 300 113-2 (April 2002) vii) EN 301 166-2 V1.1.

I (December 2001) H. Ikegami General Manager Signature This warning symbol indicates that this equipment operates in non-harmonised frequency bands and/or may be subject to licensing conditions in the country of use. Be sure to check that you have the correct version of this radio or the correct programming of this radio, to comply with national licensing requirement. 27 < Intended Country of Use > GER AUT GBR IRL NOR FRA NED BEL LUX ESP POR ITA GRE SWE DEN FIN SUI A-6507D-1EU-q Printed in Japan © 2006 Icom Inc. 1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan .



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