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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-A15S. You'll find the answers to all your questions on the ICOM IC-A15S in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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INSTRUCTION MANUAL

VHF AIR BAND TRANSCEIVER

**IC-A15**  
**IC-A15S**

Icom Inc.



▲IC-A15

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**Manual abstract:**

2008 Place and date of issue iA15/iA15S Icom (Europe) GmbH Himmelgeister straÙe 100 D-40225 Düsseldorf Authorized representative name Version (where applicable): This compliances is based on conformity with the following harmonised standards, specifications or documents: i) EN 300 676 v1.3.1 (March 2003) ii) EN 301 489-1 v1.4.1 (August 2002) iii) EN 301 489-22 v 1.3.1 (November 2003) iv) EN 60950-1: 2001 v) vi) H. Ikegami General Manager Signature i FOREWORD Thank you for purchasing this Icom product. The IC-A15/S VHF AIR BAND TRANSCEIVER is designed and built with Icom's state of the art technology and craftsmanship. @@Qty.

@@@@@I r Hand strap .....

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.... I t Battery charger .

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..... I \*Not supplied with the UK versions. q w e IMPORTANT READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL-- This instruction manual contains important operating instructions for the IC-A15/S. 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 t r y\* ii PRECAUTION R WARNING! NEVER hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm away from the lips and the transceiver is vertical. DO NOT using or placing the transceiver in direct sunlight or in areas with temperatures below 20°C or above +55°C. KEEP the transceiver away from the heavy rain, and NEVER immerse it in the water. The transceiver construction is water resistant, not waterproof.

R WARNING! NEVER operate the transceiver with a headset or other audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use. NEVER short the terminals of the battery pack. Also, current may flow into nearby metal objects, such as a necklace, etc.

Therefore, be careful when carrying with, or placing near metal objects, carrying in handbags, etc. NEVER use of non-Icom battery packs/chargers to prevent the loss of the transceiver's good performance and warranty. DO NOT allow children to play with any radio equipment containing a transmitter. DO NOT operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere. 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. iii TABLE OF CONTENTS DOC i FOREWORD ii IMPORTANT ii EXPLICIT DEFINITIONS ii SUPPLIED ACCESSORIES ii PRECAUTION iii TABLE OF CONTENTS iv 1 PANEL DESCRIPTION 15 n Panel description 1 n Function display 5 ACCESSORY ATTACHMENT 67 BASIC OPERATION 8-

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OPTIONS 33 12 OPTIONAL HEADSET CONNECTION 34 4 iv 1 PANEL DESCRIPTION q ANTENNA CONNECTOR [ANT] (p. 6) Connects the supplied antenna. w KEY LOCK SWITCH [ ] (p. 9) Push to turning the key lock function ON. Push and hold for 2 sec. to turning the key lock function OFF. e LIGHT SWITCH [LIGHT] Push to toggles the LCD backlight ON and OFF. (p.

SWITCH [LIGHT] Push to toggles the LCD backlight ON and OFF. (p.

11) !0 Speaker Microphone Function display (p. 5) o i u For IC-A15S only During memory mode, push and hold for 2 sec. to turn the "TAG" setting ON and OFF. (p. 19) r PTT SWITCH [PTT] Push and hold to transmit; release to receive. t SQUELCH UP/DOWN KEYS [SQLY]/[SQLZ] (p. 9) Push either key to select the squelch level. · 10 squelch levels, 110, and squelch open, 0, are available. n Panel description !1 q w e r t y u p/dOWN KEYS [Y]/[Z] Push to change or select the operating frequency, memory channel, set mode setting, etc. (p. 8) While scanning, push to change the scanning direction. (pgs. 18, 19) For IC-A15S only Push and hold for 1 sec. to start scanning. (pgs. 18, 19) 1 PANEL DESCRIPTION 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 2 u KEYPAD (Available with the IC-A15 only; pgs. 3, 4) i MEMORY MODE/MEMORY WRITE KEY [MR]/[MW] Push to select memory mode. (p. 12) For IC-A15 Push [FUNC] then push this key enters select memory write mode. (p. 13) During memory mode, push [FUNC] then push this key to copy the memory content into frequency mode. (p. 16) For IC-A15S Push and hold for 1 sec. to enter select memory write mode. (p. 14) During memory mode, push and hold for 1 sec. to copy the memory content into frequency mode. (p. 16) o CLEAR/HOME SWITCH [CLR]/[HOME] Push to select frequency mode. (p. 8) Push and hold for 2 sec. to resetting the transceiver into the user-default condition without memory contents (home function). (p. 20) !0 EXTERNAL SPEAKER AND MICROPHONE JACKS [MIC/SP] (p. 34) Connects the optional speaker microphone or a headset using with the optional OPC-499 HEADSET ADAPTER, if desired. Jack cover NOTE: Attach the jack cover when the optional equipment is not used. NEVER connect an optional speaker-microphone, headset adapter, etc. while the transceiver power is ON. !1 VOLUME CONTROL KNOB [VOL] Rotate to turn the transceiver power ON/OFF and adjusts the audio level. 1 PANEL DESCRIPTION D KEYPAD (Available with IC-A15 only) Inputs digit "1" for frequency input or memory channel selection, etc. (pgs. 8, 12) Inputs "1," "Q," or "Z" during memory name programming. (p. 15) After pushing [FUNC], turns the ANL (Automatic Noise Limiter) function ON and OFF. (p. 21) Inputs digit "2" for frequency input or memory channel selection, etc. (pgs. 8, 12) Inputs "2," "A," "B," or "C" during memory name programming. (p. 15) After pushing [FUNC], starts the scan. (pgs. 18, 19) Inputs digit "3" for frequency input or memory channel selection, etc. (pgs. 8, 12) Inputs "3," "D," "E," or "F" during memory name programming.



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5 MHz emergency frequency (Available with the IC-A15 only) The IC-A15 can set to the 121.5 MHz emergency frequency quickly. This function can be activated even when the key lock function is in use. q Push [FUNC] then [121.5](0) to call the emergency frequency. w Push [CLR] to return to frequency mode.

· ANL setting · Key touch beep · Squelch level · Side tone level · Microphone gain · Internal microphone usage · Time-Out timer setting The default condition can be modified to suits your preference using with the optional cloning software, CS-A14. Push and hold [CLR] for 2 sec. to return the transceiver into the default setting. Emergency initial, "E," appears with the frequency [CLR] [121.5](0) [FUNC] \*for IC-A15 only 6 OTHER FUNCTIONS n Key touch beep tone The beep tone, which sounds at the push of a switch can be set, if desired.

For IC-A15 Push [FUNC] then push [BEEP](8) to turn the key touch beep tone ON and OFF. · Key touch beep setting is displayed briefly. n ANL function The ANL (Automatic Noise Limiter) function reduces noise components such as that caused by engine ignition systems while receiving. For IC-A15 Push [FUNC] then push [ANL](1) to turn the ANL function ON/OFF. · "ANL" indicator appears when the ANL function is ON.

For IC-A15S q Rotate [VOL] to turn the transceiver power OFF. w hile pushing and holding [Y]/[Z], rotate [VOL] to enter W set mode. P e ush [MR] several times to select the key touch beep item, "BEEP." r Push [Y]/[Z] to select the desired condition from ON and OFF. t Push [CLR] to return to frequency mode.

"ANL" indicator appears when the ANL function is in use. For IC-A15S q Rotate [VOL] to turn the transceiver power OFF. w hile pushing and holding [Y]/[Z], rotate [VOL] to enter W set mode. P e ush [MR] several times to select the ANL item, "ANL." r Push [Y]/[Z] to select the desired condition from ON and OFF.

· "ANL" indicator appears when the ANL function is ON. t Push [CLR] to return to frequency mode. 21 OTHER FUNCTIONS 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 22 n Set mode setting Set mode is used for programming infrequently changed values or conditions of functions. D Set mode items · ANL-- ANL function (available with IC-A15S only) Sets the ANL (Automatic Noise Limiter) function that reduces noise components such as that caused by engine ignition systems while receiving. D Entering set mode q Rotate [VOL] to turn the transceiver power OFF. w While pushing and holding [Y] and [Z], turn [VOL] to enter set mode. e Push [MR] several times to select the desired set mode item. [Y] r Push [Y]/ [Z] to select the [Z] desired condition or value for the item. t Push [CLR] to return to frequency mode. [VOL] [MR] [CLR] · BEEP-- Key touch beep (available with IC-A15S only) The beep tone which sounds at the push of a switch can be set, if desired.

For IC-A15 only Push [FUNC] then push and hold [SET](ENT) for 1 sec. to also enters into set mode. For your information: The default value of the set mode items can be changed with the optional cloning software, CS-A14. And the default settings are re-called by the home function. · MIC-- Microphone gain The internal microphone gain can be selected to suits your communicating style.

"H" (High gain), "M" (Middle gain) and "L" (Low gain) selections are available. 6 OTHER FUNCTIONS · I.MIC-- Internal microphone usage The internal microphone can be deactivated for headset operation. @@@@Sets the timer within 20 to 180 (sec.) in 10 sec. steps and OFF. @@@@R DANGER! @@@@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! @@@@DANGER! NEVER solder the battery terminals or NEVER modify the battery pack. @@@@DANGER! Use the battery only with the transceiver for which it is specified. @@@@DANGER! If fluid from inside the battery gets in your eyes, blindness can result. Rinse your eyes with clean water, without rubbing them, and see a doctor immediately. WARNING! Immediately stop using the battery if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your Icom dealer or distributor.

WARNING! Immediately wash, using clean water, any part of the body that comes into contact with fluid from inside the battery. D Battery caution R DANGER! DO NOT hammer or otherwise impact the battery. Do not use the battery if it has been severely impacted or dropped, or if the battery has been subjected to heavy pressure. Battery damage may not be visible on the outside of the case. Even if the surface of the battery does not show cracks or any other damage, the cells inside the battery may rupture or catch fire. R DANGER! NEVER use or leave battery 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. 7 BATTERY PACKS 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! NEVER 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-179 (0°C to +40°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.

WARNING! NEVER put the battery in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause a fire, overheating, or cause the battery to rupture. CAUTION! Always use the battery within the specified temperature range for the transceiver (20°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.



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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 remaining capacity is about half, then keep it safely in a cool dry place with the temperature between 20°C to +50°C for a month storing, between 20°C to +35°C for three months storing and between 20°C to +20°C for a year storing. 25 BATTERY PACKS 7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 26 n Charging the battery D Regular charging with the BC-179+BC-174 The BC-179 provides regular charging of battery packs.

The following are additionally required. · An AC adapter (may be supplied with the transceiver depending on versions) or the optional cigarette lighter cable (CP-22). CP-22 (for 1224 V; optional) electric shock. · DO NOT modify the CP-22. A modification could cause a fire or · BE CAREFUL not to cut or fray the CP-22's power cable when disconnecting/connecting the CP-22 from/to the cigarette lighter socket. CAUTION! Turn power OFF · Charging period Approx.

12 hrs. (with BP-232N) · Charging indicator color information Orange : During charge Green : Charging is completed Orange or green (blink) : The inserted battery pack or the charger has problem. To the cigarette lighter socket AC adapter (Optional for some versions) Charging indicator Be sure to turn the transceiver power OFF, when charging the battery pack with the transceiver. 7 BATTERY PACKS D Rapid charging with the BC-119N+AD-106 The optional BC-119N provides rapid charging of battery packs.

The following are additionally required. · AD-106 charger adapter. · An AC adapter (may be supplied with BC-119N depending on versions) or the DC power cable (OPC-515L). @@@@ · An AC adapter (BC-157) or the DC power cable (OPC-656). @@@@ Master Sub Master transceiver's indication during clone Sub transceiver's indication during clone ePush [PTT] on the master transceiver.

· "CL.OUT" appears in the master transceiver's display. · "CL.IN" appears automatically in the sub transceiver's display. to the speaker connector to the speaker connector rWhen cloning is finished, turn power OFF, then ON again to exit cloning mode.

NOTE: Transceiver to transceiver cloning between IC-A15 and IC-A15S cannot be performed. OPC-474 wWhile pushing and holding [MR], rotate [VOL] to enter cloning mode (for operating the master transceiver only). · "CLONE" appears and the transceivers enter the clone standby condition. 29 CLONING D

Cloning using PC Data can be cloned to and from a PC (Microsoft® Windows® 2000/XP and Windows Vista™) using the optional CS-A14 CLONING SOFTWARE and the optional OPC-478 (RS-232C type) or OPC-478UC (USB type) CLONING CABLE. Consult the CS-A14 CLONING SOFTWARE HELP file for details. 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 30 D Cloning error When the display as below appears, a cloning error has occurred.

@@@@ · Bad connection for the battery pack. · Squelch level is too deep. · Volume level is too low. · The battery is exhausted.

@@@SOLUTION · Recharge the battery pack. · Check the connection to the transceiver. · Set squelch to the threshold point. · Set [VOL] to a suitable level. · Recharge the battery pack. · Push and hold [ function OFF. REF. pgs. 2628 p. 7 p.

9 pgs. 2628 No power comes on. No sound comes from the speaker. Transmitting impossible. Operating frequency or memory channel can not be changed.

Scan does not start. ] for 2 sec. to turn the lock p. @@ · Squelch is open. · There is not more than 2 memorized channels · Beep tones turned OFF.

· Set the "TAG" settings of desired channels. · Set the squelch level to tighten. · Program 2 or more memory channels. p. 19 p. 9 pgs. 13, 14 No beep sounds. · Turn the beep tone ON; IC-A15: Push [FUNC], then push [BEEP](8). p. 21 IC-A15S: Turn the beep tone ON in set mode.

pgs. 21, 22 D CP-22 fuse replacement If the fuse blows or the receiver stops functioning while operating with the optional CP-22 cigarette lighter cable, find the source of the problem if possible, and replace the damaged fuse with a new rated one (FGB 8 A) as shown right. Fuse 8 A 31 SPECIFICATIONS D

General · Frequency coverage · Mode · Channel spacing · Number of memory channels IC-A15 IC-A15S · Power supply requirement · Usable temperature range · Current drain (at 7.4 V DC) Tx Rx at stand by at AF max. · Antenna connector · Dimensions (projections not included) 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 32 D Transmitter : 118.000 to 136.975 MHz : 6K00A3E : 25 kHz : 200 (20 CH × 10 BANKS) 100 : Specified Icom's battery packs 7.4 V DC standard : 20°C to +55°C : 1.5 A 50 mA typical 500 mA : BNC 50 (nominal) : 53(W) × 120(H) × 36.9(D) mm : Approx.

180 g : 5.0 W (PEP) typical 1.5 W (CW) · Modulation : Low level modulation · Modulation depth : 85% · Frequency stability : ±5 ppm · Audio harmonic distortion : Less than 10% (at 85%+3 dB mod.) · Harmonic spurious emissions : Less than 36 dBm (except operating frequency ±1 MHz range) · Output power · External MIC connector : 3-conductor 2.5(d) mm (1/10)/ 150 D Receiver · Receive system : Double conversion superheterodyne · Intermediate frequencies : 1st 46.

35 MHz, 2nd 450 kHz · Sensitivity (12 dB SINAD) : 3 dBμ typical · Squelch sensitivity (threshold) : Less than 0 dBμ · Selectivity : 6 dB (More than 7.5 kHz) 60 dB (Less than 25 kHz) · Spurious response rejection : More than 70 dB · Audio output power : More than 700 mW (internal SP) (at 10% distortion with an 8 More than 500 mW (external SP) load, 30% mod.) · Weight (Without the battery pack and antenna.) · Hum and noise · External SP connector : More than 40 dB at 90% mod. : 3-conductor 3.

5 (d) mm (1/8) All stated specifications are subject to change without notice or obligation. 11 OPTIONS D BELT CLIPS · MB-94 belt clip Alligator type belt clip. · MB-96F leather belt hanger Attaches with the supplied belt clip (Fixed type). D BATTERY PACKS · BP-230N Li-Ion battery pack 7.4 V/980 mAh Li-ion battery pack. · BP-232N Li-Ion battery pack 7.4 V/2000 mAh Li-ion battery pack.



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*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.*

*3 hours when BP-232N 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. 3 hours when BP-232N is attached. · BC-160 desktop charger + BC-145 ac adapter For rapid charging of BP-230N and BP-232N (Li-ion). · BC-171 desktop charger + BC-147 ac adapter For regular charging of BP-230N and BP-232N (Li-ion). · BC-179 desktop charger + BC-174 ac adapter For regular charging of BP-230N and BP-232N (Li-ion). D DC CABLES · CP-22 cigarette lighter cable DC-DC converter is built-in.*

*Charges the battery pack using 12/24 V DC power source instead of the AC adapter for BC-171/179. · OPC-515L dc power cable for BC-119N Charges the battery pack using 13.8 V power source instead of the AC adapter for BC-119N. · OPC-656 dc power cable for BC-121N Charges the battery pack using 13.8 V power source instead of the AC adapter for BC-121N.*

*D OTHER OPTIONS · CS-A14 cloning software + OPC-478/UC cloning cable Provides quick and easy programming of items, such as memory channels or set mode contents, from a PC using the cloning cable, OPC-478 (RS-232C; DB-9 type) or OPC-478UC (USB type). · OPC-499 headset adapter cable When using an optional headset (3rd party products) via the adapter, the transceiver outputs your transmitted voice to the headset for monitoring. · OPC-474 cloning cable For data cloning between transceivers. D MICROPHONE · HM-173 speaker microphone Combination speaker and microphone. Available options may differ according to countries.*

*Ask your authorized dealer for details. 33 OPTIONAL HEADSET CONNECTION D OPC-499 (HEADSET ADAPTER) connection 12 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 34 When using a headset (3rd party products) via the OPC-499 HEADSET ADAPTER, the transceiver outputs your transmitted voice to the headset for monitoring. See "n Side tone function" (p. 11) when setting the side tone level. PTT PTT switch Use a PTT switch with a 3.5 mm (1/8) diameter plug, if required. OPC-499 HEADSET (Must be purchased separately) NOTICE! Transceiver Some headsets do not work properly when used with the IC-A15/S. Therefore, ask your dealer for details about headsets compatible for operation with the IC-A15/S with the headset. AT FI IT PL GB RO < Intended Country of Use > BE FR LV PT IS TR CY DE LT SK LI HR CZ GR LU SI NO DK HU MT ES CH EE IE NL SE BG A-6632H-1EU Printed in Japan*

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