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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F3S. You'll find the answers to all your questions on the ICOM IC-F3S 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

SmarTrunk II™
Compatible

VHF TRANSCEIVER
IC-F3/S
UHF TRANSCEIVER
IC-F4/S

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Icom Inc.



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Manual abstract:

Operation is subject to the condition that this device does not cause harmful interference. IMPORTANT READ ALL INSTRUCTIONS carefully and completely before using the transceiver. SAVE THIS INSTRUCTION MANUAL. This manual contains important safety and operating instructions for the IC-F3, IC-F3S, IC-F4 and IC-F4S. TABLE OF CONTENTS IMPORTANT

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.2 3 DEALER-PROGRAMMABLE FUNCTIONS

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beep tones when pushing switches. To toggle the function ON and OFF: Push the [BEEP] switch. 4 DEALER-PROGRAMMABLE FUNCTIONS D MONITOR AUDIBLE FUNCTION The monitor function allows you to open the transceiver's squelch manually to check whether a channel is busy or not.

The transceiver has 2 conditions for receive standby: Audible condition: This condition mutes audio ONLY when no carrier is present. You can receive (or monitor) any signals on a channel. · Push and hold the [MONI/AUDI], switch to select the audible condition. Any audio mute functions are cancelled while pushing the [MONI/AUDI] switch. 3 D TALK AROUND The talk around function changes duplex channels to simplex channels. · Duplex allows you to contact your base station, repeaters, etc. · Simplex allows you to contact other portable transceivers directly (portable-to-portable contact). To toggle the talk around function ON and OFF: Push the [TALK AROUND] switch one or more times. D DTMF TRANSMISSION This function allows you to send a pre-programmed DTMF code to control a repeater, open another transceiver's squelch, etc. Manual transmission: Push desired digit keys in sequence while pushing [PTT].

· Pushing [PTT] may not be necessary depending on programming. P0 1 4 7 P1 2 5 8 0 P2 3 6 9 P3 A B C D All signals are received P0 1 4 7 P1 2 5 8 0 P2 3 6 9 P3 A B C D Only signals containing the proper tone are received Inaudible condition: This condition mutes ALL signals except those directed to you. Therefore you should check a channel's condition (busy or not) with the monitor function before transmitting. · Push the [MONI/AUDI] switch momentarily to select the inaudible condition. Automatic pre-programmed transmission: q Push the [DTMF] switch to select DTMF autodial mode then push [Y] or [Z] to select the desired channel.

w Push the [DTMF] switch once more to send a DTMF code.



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5 3 DEALER-PROGRAMMABLE FUNCTIONS · The emergency call is repeatedly transmitted at pre-programmed intervals. D DTMF RE-DIAL FUNCTION This function allows you to transmit the last-used DTMF code at the push of a key. To activate the function: Push the [DTMF RE-DIAL] switch momentarily. · The previously transmitted DTMF code is automatically transmitted.

· If no code has been transmitted since turning the power ON, this function does not activate. D DISPLAY LIGHTING The function display has 3 backlight conditions. OFF: No backlight is available. AUTO: When any key is pushed, the backlight turns ON for 5 sec. automatically. CONTINUOUS: Backlight turns ON continuously after power ON. D SmarTrunk IITM functions This transceiver provides SmarTrunk IITM functions. (Optional UT-105 SmarTrunk IITM Logic Board is required.) The optional UT-105 allows communication over conventional channels or SmarTrunk IITM channels. Select a channel bank for SmarTrunk IITM before trunking operation.

To toggle SmarTrunk IITM channels and conventional channels. Push the [Bank Up] switch one or more times. · Scanning starts when a channel bank for SmarTrunk IITM is selected. · Contact your dealer for channel bank details. (See p.9 for more detailed operation.) D HIGH/LOW POWER OUTPUT This function selects high or low power for a channel. To toggle between high and low power: Push the [HIGH/LOW] switch. · "LOW" appears when low output power is selected. D EMERGENCY FUNCTION The emergency function allows you to send your ID quickly and easily to your Base Station, etc. in case of emergency. To activate the emergency function: Push and hold the [EMERGENCY] switch for 1 sec. · The transceiver selects a pre-programmed channel, then sends an emergency signal to your Base Station. · The pre-programmed channel remains selected until a control signal is received from the Base Station or power is turned OFF. 6 CONVENTIONAL OPERATION I Receiving and transmitting NOTE: Transmitting without an antenna may damage the transceiver.

See p.1 for antenna attachment. Turn power ON as described on p.1. Receiving: q Push [Y]/[Z] to select a channel.

@@@ after pushing [PTT], hold the microphone 10 to 15 cm from your mouth and speak at a normal voice level. P0 1 4 7 P1 2 5 8 0 P2 3 6 9 P3 A B C D P0 1 4 7 P1 2 5 8 0 P2 3 6 9 P3 A B C D P0 1 4 7 P1 2 5 8 0 P2 3 6 9 P3 A B C D P0 1 4 7 P1 2 5 8 0 P2 3 6 9 P3 e subscriber answers. @@@ Push [M], [M] immediately to redial the last number. @@@@ A high-pitched beep indicates successful programming. @*2: This function is available for the IC-F3/IC-F4 only. @@ Contact your Dealer for details. @@q Remove the battery pack from the transceiver as shown in Fig. 1. w Remove the service cover. (Fig.

2) e Take out the protective sponge. (Fig. @@1) r Connect the optional unit as shown in Fig. 2. t Replace the service cover. w e r (Fig. @@Internal battery gas may cause an explosion. NEVER immerse the battery pack in water. @@NEVER short terminals of the battery pack. @@@@Then, fully charge the battery pack again.

If the battery pack still does not retain a charge (or very little), a new battery pack must be purchased. I Battery pack replacement Before replacing the battery pack, the volume control MUST be rotated fully counterclockwise, until a click is heard, to turn the power OFF. · TO REMOVE the battery pack from the transceiver: Push and hold the battery release downwards, then pull the battery pack upwards with the transceiver facing you. · TO ATTACH the battery pack to the transceiver: Mate the notched ends of the battery pack and the transceiver, and push the battery pack until it clicks into place. D Recycling information (U.

S.A. only) The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its life, under various state and local Ni-Cd laws, it may be illegal to dispose of this battery into the municipal waste stream.

Call 1-800-8-BATTERY for battery recycling options in your area or contact your dealer. RB RC 12 BRC BATTERY PACKS 7 I Battery case When using a BP-194 OPTIONAL BATTERY CASE attached to the transceiver, install 8 AA (R6) size alkaline or Ni-Cd batteries as illustrated below. D Battery case cautions When installing Ni-Cd batteries: · Make sure all Ni-Cd cells are the same brand, type and capacity. · Never mix old and new batteries. Either of the above may cause a fire hazard or damage the transceiver. When installing dry cell or alkaline batteries: · Never connect DC power to the transceiver. Such a connection always charges the installed batteries and will damage the transceiver. For both Ni-Cd and dry cell batteries: · Never incinerate used battery cells since internal battery gas may cause them to rupture. · Never expose a detached battery case to water. If the battery case gets wet, be sure to wipe it dry before using.

13 7 BATTERY PACKS D Rapid charging with the BC-119 The optional BC-119 provides rapid charging of optional NiCd battery packs. The following are additionally required: · One AD-81. · An AC adapter (may be supplied with the BC-119 depending on version). I Battery charging Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. CAUTION: To avoid damage to the transceiver, turn it OFF while charging. · Recommended temperature range for charging: +10°C to +40°C (50°F to 140°F). · Use the supplied charger or optional charger (BC-119/BC121 for rapid charging) only. NEVER use other manufacturers' chargers. · An optional cable OPC-254L (for 13.8 V power source) or CP-12L (for 12 V cigarette lighter socket) can be used instead of the AC adapters supplied with the above chargers.

Turn power OFF. Check orientation for correct charging. (Packed together as the AD-81.) BC-119+ AD-81 When using the BC-119: If the charge indicator flashes orange, the vehicle battery voltage is low and charging may not be performed. Check the vehicle battery voltage in this case.

If the charge indicator flashes red, there may be a problem with the battery pack (or charger). Re-insert the battery pack or contact your dealer. BC-119+ AD-81 Check orientation for correct charging. (Packed together as the AD-81.) 14 BATTERY PACKS D Multiple charging with the BC-121 The optional BC-121 allows up to 6 Ni-Cd batteries to be charged simultaneously.

The following are additionally required. · Six AD-81s. · An AC adapter (may be supplied with the BC-121 depending on version). 7 D Charging with the BC-110A/D/V CAUTION: Only Ni-Cd batteries can be charged. NEVER connect a wall charger when dry cell or alkaline batteries are installed in the BP-194 OPTIONAL BATTERY CASE--the transceiver and/or battery case may be damaged.



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Connect the optional BC-110A/D/V to the [CHARGE] jack on the transceiver. · Approx. charging period: 15 hr. · DO NOT turn power ON while connecting the BC-110A/D/V. Current capacity is insufficient.

BC-110A/D/V MULT I-CH ARG ER To [CHARGE] Charge indicator (each indicator functions independently) AC adapter (not supplied with some versions) 15 7 BATTERY PACKS D Charging with an optional cables The optional CP-12L CIGARETTE LIGHTER CABLE with noise filter or OPC-254L DC POWER CABLE with a 12 to 16 V DC power source can also be used to charge the battery packs (except the BP-194 with installed dry cell or alkaline batteries).

Connect an optional charger or cable to the transceiver as illustrated below. Be careful of battery overcharging as the connected battery is charged simultaneously. CAUTION: Even if the power source has enough capacity, the [CHARGE] jack can be used for charging purposes only. You can not operate the transceiver without an internal power source. I Optional battery pack The optional BP-195 or BP-196 battery packs include rechargeable Ni-Cd batteries and can be charged approx. 300 times. Charge the battery pack before first operating the transceiver or when the battery pack becomes exhausted. If you want to charge the battery pack more than 300 times, the following points should be observed: 1. Avoid over charging.

The charging period should be less than 48 hours. 2. Use the battery until it becomes almost completely exhausted under normal conditions. We recommend battery charging after transmitting becomes impossible. CP-12L (optional) To [CHARGE] white OPC-254L black (optional) To a 12 to 16 V DC power source D Battery pack life When the operating period becomes extremely short even after charging the battery pack fully, a new battery pack is needed.

@ @ 1.5 hours Approx. @ @ @ @ Charging time: 1.5 to 2 hours. An AC adapter is supplied with the chargers (depending on version).

BC-121 rapidly charges up to 6 battery packs at once. @ @ · CP-12L CIGARETTE LIGHTER CABLE Used for charging via a vehicle's cigarette lighter socket (12 V). · OPC-254L DC POWER CABLE Used for charging with an external power supply. · UT-80 2-TONE UNIT Provides 2-tone capabilities. · UT-96 5-TONE UNIT Provides 5-tone capabilities. · UT-105 SmarTrunk IITM Logic Board Provides SmarTrunk IITM operation. · BP-194 BATTERY CASE Takes eight (8) AA (R6) size batteries. External DC-jack on the transceiver can be used to charge the Ni-Cd battery cells. · SP-13 EARPHONE Provides clear audio in noisy environments. Mode Usable temperature range EIA ETS, CEPT Dimensions (projections not included) Weight (with BP-196) · TRANSMITTER Output power · RECEIVER Sensitivity (12 dB SINAD)* (* Typical) Intermodulation rejection ratio Spurious response rejection ratio Adjacent channel selectivity Audio output power : IC-F3/S : IC-F4/S 5W 4W : IC-F3/S 0.

25 μ V : IC-F4/S 0.3 μ V : More than 65 dB : More than 70 dB : More than 70 dB (wide) More than 60 dB (narrow) : 500 mW (at 10% distortion with an 8 load) All stated specifications are subject to change without notice or obligation. 17 A-5452H-1EX-w Printed in Japan Copyright 1997 by Icom Inc. 1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003 Japan .



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