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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F4. You'll find the answers to all your questions on the ICOM IC-F4 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-F4
User guide ICOM IC-F4
Operating instructions ICOM IC-F4
Instructions for use ICOM IC-F4
Instruction manual ICOM IC-F4



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

.....
.....
.....

.....
.....
.....
.....

.....
.....

...i CAUTIONS ..

.....
.....
.....
.....
.....
.....
.....
.....
.....

...i TABLE OF CONTENTS

.....
.....
.....
.....
.....
.....

.i 1 GETTING STARTED

.....
.....
.....

.....
.....
.....

.....1 2 PANEL DESCRIPTION ..

.....
.....
.....
.....

.....
.....
.....

.2 3 DEALER-PROGRAMMABLE FUNCTIONS

.....36 `General..

.....
.....
.....
.....
.....

.....
.....
.....
.....
.....
.....
3`Functions.....

.....
.....
.....
.....
.....
.....
.....
.....4 4 CONVENTIONAL OPERATION .

.....
.....
.....
.....
.....
.....
.....78 5 SmarTrunk IITM OPERATION

.....
.....
.....
.....
.....
.....
..910 6 OPTIONAL INSTALLATION..

.....
.....
.....
.....
.....
.....
.....11 7 BATTERY PACKS

.....
.....
.....
.....
.....
.....
....1216`Battery pack replacement.

.....
.....
.....
.....
.....
.....
.12`Cautions

.....
.....
.....
.....
.....
.....
.....12`Charging.

.....
.....
.....
.....

..14 8 SPECIFICATIONS AND OPTIONS ...

.....
.....
.....
.....

17 `Specifications

.....
.....
.....
.....

17 `Options

.....
.....
.....
.....

.....
.....
.....
.....

17 CAUTIONS NEVER allow the antenna to come close to, or touch, exposed body parts, especially the face or eyes while transmitting. NEVER disassemble the transceiver. Incorrect reassembly may result in a fire hazard or electric shock. NEVER operate the transceiver near unshielded electrical blasting caps or in an explosive area. AVOID the use of chemical agents such as benzene or alcohol when cleaning--use a water-dampened cloth only. For U.S.A. @@@@ · A power-up alert tone sounds for about 2 sec. and an opening message may appear.

(Above functions depend on pre-setting.) Then a channel number appears on the display. MR w e Channel number may differ from this. q D BELT CLIP Attach the belt clip to the transceiver as illustrated below. Attach the belt-clip Release the belt-clip NOTE: If the power-up alert tone does not sound or a channel number does not appear on the display, turn the transceiver OFF, check the battery, then turn the transceiver back ON.

If the power-up tone still does not sound or a channel number does not appear, charge the battery or replace it. NOTE: To increment or decrement the displayed channel, push [Y] or [Z] keys. @@w PTT SWITCH [PTT] Push and hold to transmit; release to receive. e UP/DOWN KEYS [Y]/[Z] · Push to select the operating channel. · Can be programmed as [M]/[#] .

@@t KEYPAD Used to enter DTMF codes, the operating channel, etc. y ANTENNA CONNECTOR Connects the supplied antenna. u [SP]/[MIC] JACK Connect optional speaker-microphone. i ACTIVITY LED Lights red while transmitting. @@ · 5-tone indication. · Low-battery indication. · DTMF numbers. · Low-power indication. · Skip-ch indication. @@When available, programmed functions are assigned to [P0], [P1], [P2], [P3], YZ [A]*1, [B]*1, [C]*1, [D]*1, []*1, []*1, []*2 and [Y]/[Z]*3.

*1: IC-F3/IC-F4 only. *2: IC-F3S/IC-F4S only. *3: SmarTrunk II mode when assigned [M]/[#] functions only. D Programmable key reference. IC-F3/IC-F4 [Y] [Z] [P0] [P1] [P2] [P3] IC-F3S/IC-F4S [Y] [Z] [] [P0] [P1] [P2] [P3] 3 [] [] [A] [B] [C] [D] NOTE: Above functions depend on presetting. 3 DEALER-PROGRAMMABLE FUNCTIONS D SCAN FUNCTION The scan function allows you to search a pre-programmed group of channels for signals. To start/stop scan: Push the [SCAN] switch. · Scan pauses on a channel when receiving a signal. · Depending on programming, a message may appear while scanning. @@@@ 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. 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. @@@@Select a channel bank for SmarTrunk IITM before trunking operation. To toggle SmarTrunk IITM channels and conventional channels. @@ · Contact your dealer for channel bank details. @@@@in case of emergency. @@@@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.



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· 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. @@When installing dry cell or alkaline batteri. 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. @@@@. 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 enviroments. 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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