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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F33GT. You'll find the answers to all your questions on the ICOM IC-F33GT 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-F33GT  
User guide ICOM IC-F33GT  
Operating instructions ICOM IC-F33GT  
Instructions for use ICOM IC-F33GT  
Instruction manual ICOM IC-F33GT

**ICOM**<sup>®</sup>

INSTRUCTION MANUAL

VHF TRANSCEIVER  
**IC-F33GT/GS**  
UHF TRANSCEIVER  
**IC-F43GT/GS**

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.

**BIIS 1200  
Compatible**



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**Manual abstract:**

*@@NEVER operate the transceiver with a headset or other audio accessories at high volume levels. R CAUTION! NEVER short the terminals of the battery pack. 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 +22°F (30°C) or above +140°F (+60°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. SmarTrunk IITM and SmarTrunk 3GTM are Trademark of SmarTrunk Systems, Inc. i DO NOT modify the transceiver for any reason. KEEP the transceiver from the heavy rain, and Never immerse it in the water.*

*The transceiver construction is water resistant, not waterproof. The use of non-Icom battery packs/chargers may impair transceiver performance and invalidate the warranty. For U.S.A.*

*only CAUTION: Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations. ii TABLE OF CONTENTS IMPORTANT .....*

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(See p. 3 for details) 10-keypad version q ROTARY SELECTOR Rotate to select the pre-programmed memory channels or the operating bank. (Depending on the pre-setting) w VOLUME CONTROL [VOL] Rotate to turn the power ON/OFF and adjusts the audio level. 4 t FUNCTION DISPLAY Displays a variety of information such as an operating channel number/name, 2/5-tone code, DTMF numbers, selected function, etc. y DEALER-PROGRAMMABLE KEYS [P0] to [P3] Desired functions can be programmed independently by your dealer. (p. 7) PANEL DESCRIPTION 2 u 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 · Set SmarTrunk IITM/SmarTrunk 3GTM codes · Set BIIS status number · Input text message for SDM operation · Start up with the password !0 MONITOR KEY Mute and release the CTCSS (DTCS) or 2-tone squelch mute. Open any squelch/deactivate any mute while pushing this key. (LMR operation only) Activates one of (or two of) the following functions on each channel independently. (PMR or BIIS PMR operation only) · Push and hold the key to unmute the channel (audio is emitted; 'audible' condition).

· Push the key to toggle the mute and unmute conditions (toggles 'audible' and 'inaudible'). · Push the key to mute the channel (sets to 'inaudible' only). · Push the key to unmute the channel (sets to 'audible' only). · Push the key after communication is finished to send a 'reset code.' · Push the key after communication is finished to send a 'clear down code' during BIIS operation on an MSK channel.



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i UP/DOWN KEYS Push to select an operating channel. Push to select a TX code channel after pushing [TX CODE CH SELECT]. Push to select a DTMF channel after pushing [DTMF]. Push to select a scan group after pushing and holding [SCAN]. Push to select a BIIS code, status number or SDM after pushing [DIGITAL].

\*Desired functions can be programmed independently by your dealer. (p. 7) NOTE: The unmute condition ( 'audible' conditions) may automatically return to the mute condition ( 'inaudible' condition) after a specified period. \*Desired function can be programmed by your dealer. (p. 7)

o PTT SWITCH [PTT] Push and hold to transmit; release to receive. Push to transmit the call during MSK operation, depending on the setting. !1 ANTENNA CONNECTOR Connects the supplied antenna. 5 2 PANEL DESCRIPTION I Function display q w e r tyu i o !0 !1 !2 !3 y AUDIBLE INDICATOR Appears when the channel is in the 'audible' (unmute) condition. Appears when the specified 2/5-tone/BIIS code is received.

u COMPANDER INDICATOR Appears when the compander function is activated. i SCRAMBLER INDICATOR Appears when the voice scrambler function is activated. o BELL INDICATOR Appears/blinks when the specific 2/5-tone/BIIS code is received, according to the pre-programming. !0 CALL CODE MEMORY INDICATOR Appears when the call code memory is selected. !1 KEY LOCK INDICATOR Appears during the key lock function is ON. !2 BATTERY INDICATOR Appears or blinks when the battery power decreases to a specified level. !3 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 SCROLL INDICATOR Appears when a received SDM including more than 8 characters is displayed.

r SIGNAL STRENGTH INDICATOR Indicates relative signal strength level. t LOW POWER INDICATOR Appears when low output power is selected. · When the battery power decreases to a specified level, low power is selected automatically. 6 PANEL DESCRIPTION 2 I Programmable function keys The following functions can be assigned to [UP], [DOWN], [P0], [P1], [P2], [P3], [RED] and [MONITOR] programmable function keys. Consult your Icom dealer or system operator for details concerning your transceivers programming. If the programmable function names are bracketed in the followings selective Individual/Group' calls. Ask your dealer which call is assigned to each key. 2 TX CODE ENTER KEY (PMR or BIIS PMR operation only) Push to enter the direct ID code edit mode, for both 5-tone and MSK. Then set the desired digit using [CH Up]/[CH Down]/[TX Code CH Up]/[TX Code CH Down] or 10-keypad.\* (p. 14) \*Depending on version TX CODE CHANNEL SELECT KEY Push to enter the direct ID code channel selection mode. Then set the desired channel using [CH Up]/[CH Down]/[TX Code CH Up] or [TX Code CH Down]. (p. 13) While in ID code channel selection mode, push for 1 sec. to enter the ID code edit mode for 5-tone and MSK. Then set the desired digit using [CH Up]/[CH Down]/[TX Code CH Up]/[TX Code CH Down] or 10-keypad.\* (p. 14) \*Depending on version TX CODE CHANNEL UP/DOWN KEYS Push to select a TX code channel directly. ID MEMORY READ KEY (PMR or BIIS PMR operation only) Recalls detected ID codes. · Push this key, then push [CH Up]/[CH Down] for selection. · Up to 5 ID's are memorized. EMERGENCY KEYS Push and hold to transmit an emergency call. When [Emergency Single (Silent)] or [Emergency Repeat (Silent)] is pushed, an emergency call is transmitted without a beep emission and LCD indication change. · If you want to cancel the emergency call, push (or push and hold) the key again before transmitting the call. · The emergency call is transmitted one time only or repeatedly until receiving a control code depending on the pre-setting. Push and hold to erase the selected memorized ID's. VOICE SCRAMBLER FUNCTION Push to toggle the voice scrambler function ON and OFF. 9 2 PANEL DESCRIPTION D For SmarTrunk operation only TRUNKING GROUP KEY Push to select the Trunking group. TURBO SPEEDIAL A/B/C/D KEYS Push to automatically dial a commonly used number with one push. CALL/CLEAR-DOWN KEYS Functions as [M] and [#] keys on the 10-keypad.

· Push [M] for call, push [#] for clear-down. COMPANDER KEY Push to toggle the compander function ON and OFF. The compander function reduces noise components from the transmitting audio to provide clear communication. USER SET MODE KEY Push and hold to enter user set mode. · During user set mode, push this key to select an item, and push [CH Up]/[CH Down] to change the value or condition. Push and hold this key again to exit user set mode. OPT OUT KEYS Push to control the optional unit connector output signal level. DIGITAL KEY (BIIS operation only) Push to select the call ID list, transmit message and standby condition. Toggles between queue channel and received message record indication after queue channel is selected. Push and hold to select queue channel indication.

STATUS UP/DOWN KEYS (BIIS operation only) While in the standby condition, push to display the transmit status indication and select a status number. When a received SDM is displayed, push to cancel the automatic scroll and scroll the message manually. When an SDM that contains more than 8 characters is displayed, push to scroll the message manually. TRUNKING CALLER ID KEY Push [Trunking Caller ID SW] to display the received ID record in sequence (while in SmarTrunk 3GTM operation). 10 BASIC OPERATION I Turning power ON q Rotate [VOL] to turn the power ON. · If the transceiver is programmed for a start up password, input the digit codes as directed by your dealer. · 10-keypad can be used for password input depending on version: · The keys in the table below can be used for password input: · The transceiver detects numbers in the same block as identical. Therefore "01234" and "56789" are the same. 3 I Channel selection Several types of channel selections are available. Methods may differ according to your system set up.

NON-BANK TYPE: Push [UP] or [DOWN], or rotate [ROTARY SELECTOR]\* 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. · Up to 16 pre-programmed channels can be selected via [ROTARY SELECTOR].\* KEY NUMBER 0 5 1 6 2 7 3 8 DOWN 4 9 BANK TYPE: Push [BANK], then push [UP] or [DOWN] or rotate [ROTARY SELECTOR]\* to select the desired bank. 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. \*Depending on the pre-setting. e When the "PASSWORD" indication does not clear after inputting 4 digits, the input code number may be incorrect. Turn the power off and start over in this case.



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**11 3 BASIC OPERATION 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 signalling employed may be a selective calling system which allows you to call specific station(s) only and prevent unwanted stations from contacting you. q Select the desired TX code channel or 2/5-tone code according to your System Operator's instructions. · This may not be necessary depending on programming. · Refer to pgs. 13 or 14 for selection. I Receiving and transmitting NOTE: Transmitting without an antenna may damage the transceiver. See p. 1 for antenna attachment. Receiving: q Rotate [VOL] to turn the power ON. w Push [UP] or [DOWN], or rotate [ROTARY SELECTOR]\* to select a channel, in sequence.

\*Depending on the pre-setting. w Push the call key (assigned to one of the dealer programmable keys: [Up], [Down], [P0], [P1], [P2], [P3], [Emergency] and [Monitor]) or [PTT]. e After transmitting a 2/5-tone code, the remainder of your communication can be carried out in the normal fashion. Selective calling Non-selective calling e When receiving a call, adjust the audio output level to a comfortable listening level. Transmitting: Wait for the channel to become clear to avoid interference.

q While pushing and holding [PTT], speak into the microphone at a normal voice level. w Release [PTT] to return to receive. IMPORTANT: To maximize the readability of your signal; 1. Pause briefly after pushing [PTT]. 2.

Hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth, then speak into the microphone at a normal voice level. 12 BASIC OPERATION 3 D Transmitting notes · Transmit inhibit function The transceiver has several inhibit functions which restrict transmission under the following conditions: - The channel is in mute condition ( 'Inaudible' condition; " " does not appear.) - The channel is busy. - Un-matched (or matched) CTCSS is received. (Depending on the pre-setting.) D TX code channel selection If the transceiver has [TX Code CH Select] assigned to it, indication can be toggled between the operating channel number (or name) and TX code channel number (or name). When the TX code channel number (or name) is displayed, [UP]/[DOWN] selects the TX code channel. TO SELECT A TX CHANNEL: q Push [TX Code CH Select]-- a TX code channel appears. w Push [UP] or [DOWN] to select the desired TX code channel. e Push [Call] (or [PTT] during MSK operation) to transmit the selected TX code.

r Push [TX Code CH Select] again to return to the operating channel number indication. FOR TX CODE CHANNEL TYPE: If the transceiver has a [TX Code

CH Up] or [TX Code CH Down] key assignment, the programmed TX code channel can be selected directly. - The selected channel is a 'receive only' channel. · Time-out timer After continuous transmission for the pre-programmed time period, the time-out timer is activated, causing the transceiver to stop transmitting. · Penalty timer Once the time-out timer is activated, transmission is further inhibited for a period determined by the penalty timer. 13 3 BASIC OPERATION D TX code number edit (PMR or BIIS PMR operation only) If the transceiver has [TX Code CH Select] or [TX Code Enter] assigned to it, TX code contents can be edited within the allowable digits. TO EDIT A TX CODE VIA [TX CODE CH SELECT] KEY: q Push [TX Code CH Select] to enter the TX code channel selection mode. · Select the desired channel using [UP] or [DOWN] if necessary. TO EDIT A TX CODE VIA [TX CODE ENTER] KEY: q Select the desired TX code channel via [TX Code CH Up] or [TX Code CH Down]. w Push [TX Code Enter] to enter the TX code edit mode.

e Push [TX Code Enter] to select the desired digit to be edited. r Set the desired digit using [UP], [DOWN], [TX Code CH Up] or [TX Code CH Down] or 10-keypad\*. \*Depending on version. w Push [TX Code CH Select] for 1 sec. to enter the TX code edit mode. e Push [TX Code CH Select] to select the desired digit to be edited. r Set the desired digit using [UP], [DOWN], [TX Code CH Up], [TX Code CH Down] or 10-keypad.\* \*Depending on version. t Push [TX Code Enter] to set the digit. The editable digit will move to the right automatically.

· When the 10-keypad is used to set, the editable digit will move to the right automatically without pushing [TX Code CH Select]. y Repeat r and t to input all allowable digits. u Push [Call] or [PTT] to transmit the edited TX code. i Push [TX Code CH Select] to set the digit. The editable digit will move to the right automatically. · When the 10-keypad is used to set, the editable digit will move to the right automatically without pushing [TX Code CH Select]. y Repeat r and t to input all allowable digits. u Push [Call] or [PTT] to transmit the edited TX code. 14 BASIC OPERATION D DTMF transmission If the transceiver has [DTMF Autodial] assigned to it, the automatic DTMF transmission function is available. Up to 8 DTMF channels are available.

TO SELECT A TX CODE: q Push [DTMF Autodial]-- a DTMF channel appears. w Push [UP] or [DOWN] to select the desired DTMF channel. e Push [DTMF Autodial] to transmit the DTMF code in the selected DTMF channel. 3 I User set mode User set mode is accessed with [User Set Mode] and allows you to set seldom-changed settings. In this case you can "customize" the transceiver operation to suit your preferences and operating style. Entering the user set mode: q Push and hold [User Set Mode] to enter user set mode. Push [User Set Mode] momentarily to select the item. Then push [UP] or [DOWN] to set the desired level/condition. · Available set mode functions are Backlight, Beep, SQL Level, Mic Gain and Battery Voltage. w Push and hold [User Set Mode] to exit user set mode.

I Scrambler function The voice scrambler function provides private communication between stations. The frequency inversion type is equipped to all versions, moreover, the optional Rolling or Non-rolling type can be available. q Push [Scrambler] to turn the scrambler function ON. · " " appears. w Push [Scrambler] again to turn the scrambler function OFF.

· " " disappears. 15 4 BIIS OPERATION I Receiving a call D Individual call q When an individual call is received; · Beeps sound. · " " appears and the mute is released. @@ · " " appears or blinks depending on the setting. I Default setting The following functions are assigned to each programmable key as the default.

However, the assigned function can be changed by your dealer. Ask your dealer for details. NOTE: [TX Code Enter] must be assigned to any key. · Push to transmit a 5-tone/BIIS call when the selected channel is a 5tone or MSK channel, respectively. [P1]; Digital : Push to select the call list ID/transmit message, or to display the receive message record for selection. [P3]; TX Code Enter : Push to enter the direct ID code edit mode for both 5-tone and MSK.



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[UP]/[DOWN]; CH Up/Down : While in the standby condition, selects the operating channel. After pushing [Digital] or [TX Code CH Select], selects call list or TX code channel, respectively. [MONITOR]; Moni(Audi): Push this key after the communication to send a 'Clear down' signal during MSK channel operation. [P2]/[RED]; Null : No function is assigned.

@@@@" is displayed for 2 sec. (approx.). @@" appears and the mute is released. @@@@@" is displayed for 2 sec. @e Push [P1] (Digital) for 1 sec. @ to enter the queue memory channel selection mode. @@@@@" Push [PTT] to transmit; release to receive. @@@@" Push [PTT] to transmit; release to receive. t Push [MONITOR] (Moni(Audi)) to send the 'Clear down' signal.

@i Push [MONITOR] (Moni(Audi)) to send the 'Clear down' signal. @y Push [P0] (Call) or [PTT]\* to call. \*PTT call can be made only when PTT call capability is permitted. NOTE: When no answer back is received, the transceiver repeats the call 3 times (default) automatically, and "" is displayed during each call. @19 4 BIIS OPERATION I Receiving a message D Receiving a status message q When a status message is received; · Beeps sound.

· The calling station ID (or text) and the status message is displayed alternately, depending on the setting. D Receiving an SDM q When an SDM is received; · Beeps sound. · The calling station ID (or text) and the SDM is displayed alternately, depending on the setting. w Push [MONITOR] (Moni(Audi)) to return to the standby condition. NOTE: Only the calling station ID (or text) is displayed (no message is displayed alternately) when the scroll timer is set to OFF.

' In this case, push [Status Up]/[Status Down] to display the status message manually. w When the received SDM includes more than 8 characters, "" appears and the message scrolls automatically, when the automatic scroll function is activated. · Push [Status Up]/[Status Down] to scroll the message manually. e Push [MONITOR] (Moni(Audi)) to return to the standby condition. 20 BIIS OPERATION 4 D Received message selection The transceiver memorizes the received messages for record. Up to 6 messages for status and SDM, or 95 character SDM's can be memorized. The oldest message is erased when the 7th message is received. However, once the transceiver is powered OFF, all messages are cleared. q Push [P1] (Digital) for 1 sec. · Displays queue memory.

e Push [UP] or [DOWN] to select the desired message. · When selecting the SDM that includes more than 8 characters, "" appears and the message scrolls automatically, when the automatic scroll function is activated. · Push [Status Up]/[Status Down] to scroll the message manually. r Push [P1] (Digital) for 1 sec. again to return to the standby condition. · When no operation is performed for 30 sec., the transceiver returns to the standby condition automatically. w Push [P1] (Digital) momentarily. · Displays message memory. When a message is available When no message is available 21 4 BIIS OPERATION I

Transmitting a status D General The status message can be selected with the programmed text, and the message text is also displayed on the function display of the called station. Up to 24 status types (1 to 24) are available, and the status messages 22 and 24 have designated meanings. Status 22: Emergency\* Status 24: GPS request \*The status 22 can also be used as a normal status message by disabling the designated meaning. However, the status 24 is fixed. D Transmitting a status q

While in the standby condition, push [P1] (Digital), then push [UP] or [DOWN] to select the desired station/group code. w Push [P1] (Digital) again, then push [UP] or [DOWN] to select the desired status message. Or, you can select the desired status message using [Status Up]/[Status Down] key directly. The status call can be sent with both individual and group calls. Status message is displayed. e Push [P0] (Call) or [PTT]\* to transmit the status message to the selected station/group. \*PTT call can be made only when PTT call capability is permitted.

· 2 beeps will sound and the transceiver returns to the standby condition automatically when the transmission is successful. 22 BIIS OPERATION 4 I Transmitting an SDM D General The short data message, SDM, can be sent to an individual station or group stations. Also, 8 SDM memory channels are available and the messages can be edited via PC programming. D Transmitting an SDM q While in the standby condition, push [P1] (Digital), then push [UP] or [DOWN] to select the desired station/group code. w Push [P1] (Digital) again, then push [UP] or [DOWN] to select the desired SDM. Or, you can select the desired SDM using [Status Up]/[Status Down] key directly. SDM is displayed. e Push [P0] (Call) or [PTT]\* to transmit the SDM to the selected station/group. \*PTT call can be made only when PTT call capability is permitted. · 2 beeps will sound and the transceiver returns to the standby condition automatically when the transmission is successful.

23 4 BIIS OPERATION D Programming an SDM memory (10-keypad version is required) q During standby condition, push [P1] (Digital) twice, then push [UP] or [DOWN] to select the desired SDM to be edited. w Push [M] or [#] to enter the message editing condition. · The first character blinks when [#] is pushed, the last character blinks when [M] is pushed as below. · Available characters Key [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] (0) ( ) (&) (2) (3) (4) (5) (6) (7) (8) (9) (.) ( ) (Space) (%) (A) (D) (G) (J) (M) (P) (T) (W) (!) ( ) (#) (\$) (B) (E) (H) (K) (N) (Q) (U) (X) Characters (?) (<) ( ) (@) (C) (F) (I) (L) (O) (R) (V) (Y) (') (>) (/) (^) (a) (d) (g) (j) (m) (S) (t) (Z) ('") (l) (+) (b) (e) (h) (k) (n) (p) (u) (w) (.) (l) (--)(c) (f) (i) (l) (o) (q) (v) (x) (;) (=) (:)) ( e Push the appropriate digit key, [0] to [9], to enter the desired character. · See the table at right for the available characters. · Pushing [UP] also enters space, pushing [DOWN] deletes the selected character. (r) (y) (s) (z) r Push [#] to move the cursor to the right, push [M] to move the cursor to the left. t Repeat steps e and r to set the desired text message. y Push [P1] (Digital) for 1 sec.

to overwrite the set content into the memory. · Push [P1] (Digital) momentarily to cancel the editing and return to the original message indication. NOTE: Once the pre-programmed character including a decimal point is rewrote with the 10-keypad, the decimal point cannot be displayed again. 24 BIIS OPERATION 4 I Position data transmission When the optional cable and a GPS receiver is connected to the transceiver, the position (longitude and latitude) data can be transmitted automatically.



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Ask your dealer or system operator for connection details.

The position data is transmitted when; · Status 24 message is received \*When the status 24 message, GPS request, is received. I Printer connection When the optional cable is connected to the transceiver, a printer can be connected to print out the received SDM content and the ID of the station who sent the message. Ask your dealer or system operator for connection details. I Digital ANI The own ID can be transmitted each time the PTT is pushed (log-in) or released (log-off) during individual or group call communications. By receiving the ANI, the communication log can be recorded when using a PC dispatch application.

In addition, when using the ANI with log-in, the PTT side tone function can be used to inform you that the ID is sent and voice communication can be performed. · Fully automatic When automatic position transmission is enabled, send the position data according to 'Time Marker' and 'Interval Timer' settings. · PTT is released When 'Send with Logoff' is enabled. · Set the 'Log-In/Off' item as 'L-OFF.' · After sending a status message When 'Send with Status' is enabled. · After sending an SDM When 'Send with SDM' is enabled. · After sending status 22 (Emergency) When 'Send with Emergency' is enabled. 25 4 BIIS OPERATION I Auto emergency transmission When [Emergency Single (Silent)] or [Emergency Repeat (Silent)] is pushed, an emergency signal is automatically transmitted for the specified time period. The status 22 (Emergency) is sent to the selected ID station, and the position data is transmitted after the emergency signal when a GPS receiver is connected to the transceiver. The emergency transmission is performed on the emergency channel, however, when no emergency channel is specified, the signal is transmitted on the previously selected channel.

There is no change in the function display or beep emission during automatic emergency transmission. I BIIS indication The following indications are available for the BIIS operation on an MSK channel. · Individual/group call is successful. · Message (status or SDM) transmission is successful. · No answer back is received. · Appears during retry of the call (2nd call). · End the communication. · Operating channel is in the busy condition. I Priority A channel selection When one of the following operations is performed, the transceiver selects the Priority A channel automatically. Priority A is selected when; · Clear down signal is received/transmitted - Set the 'Move to PrioA CH' item as 'Clear down.

' · Turning the power ON The Priority A channel is selected each time the transceiver power is turned ON. · Status call The Priority A channel is selected when transmitting a status call. · Enable the 'Send Status on PrioA CH' item in the MSK configuration. I Stun function When the specified ID, set as a killer ID, is received, the stun function is activated. When the killer ID is received, the transceiver switches to the password required condition.

Entering of the password via the keypad is necessary to operate the transceiver again in this case. 26 BIIS OPERATION 4 I Man Down Emergency Call The optional UT-113 MAN DOWN UNIT is required for this function. The man down emergency call function transmits an emergency call automatically, when the transceiver has been left in a horizontal position. This function can be performed for both 5-tone and MSK channels. After the emergency call, the transceiver performs transmission and reception alternately with the following conditions: · Transmits the microphone signals.

· Receives the signal and emits audio. When the emergency reset signal is received, the function is cancelled. IMPORTANT: Set an emergency channel individually, to provide certain emergency call operation is recommended. 27 5 OPTIONAL SmarTrunk OPERATION I SmarTrunk IITM and SmarTrunk 3GTM operation These features are enabled by a Dealer and may not be available in your system. Contact your Dealer for details. I SmarTrunk IITM, SmarTrunk 3GTM and conventional modes This transceiver is capable of SmarTrunk IITM/SmarTrunk 3GTM functions. The optional

UT-105/UT-117/UT-117S allow communications in conventional channels, SmarTrunk IITM/SmarTrunk 3GTM channels. Select a channel bank for SmarTrunk IITM/SmarTrunk 3GTM before trunking operation. · Push [BANK] several times to select a channel bank for conventional channels or SmarTrunk IITM/SmarTrunk 3GTM channels. · Scanning starts when a channel bank for SmarTrunk IITM/ SmarTrunk 3GTM operation is selected.

· Contact your Dealer for channel bank details. D Receiving a call\*1 When you hear ringing, push [M] to answer. · For a group call, you hear a short ring followed by two short beeps. You do not have to answer a group call to hear it over the air. D Terminating a call\*1 After completing a call, push [#] to disconnect (hang up). IMPORTANT: If one person in the conversation terminates a call, all participants will be cut off. D Last number re-dial\*1 Push [M] 2times to automatically re-dial the last called number. · A high-pitched beep indicates that the number is accepted. D Clear channel alerting\*1 If all channels are busy, the transceiver automatically begins searching for an open channel and beeps every ten seconds. When two short beeps (low-pitched, then high-pitched) are heard, a channel is available.

Push [M], [M] immediately to redial the last number. 28 OPTIONAL SmarTrunk OPERATION D PTT dispatch operation\*1 q Push [PTT] once (without dialling) to initiate a dispatch call. w Begin talking after you hear three beeps (one short, highpitched, two very-short, low-pitched). e Receiving a dispatch call is indicated by the same threebeep sequence. · It is not necessary to push [M] to answer a dispatch call.

5 D Turbo Speedial To automatically dial a commonly used number with one push: · Push one of the turbo Speedials ([A], [B], [C] or [D]). D Programming memory speed dial q Push and hold [M] until you hear a high-pitched beep. w Enter the memory location (09, A, B, C, D), the telephone or subscriber number, then [1], [M] (or [3], [M] if for another system subscriber). · A high-pitched beep indicates successful programming. · Memories [A][D] are used for the Turbo Speedial.

D Placing a telephone call\*2 Enter the phone number followed by [1], [M]. · A high-pitched beep indicates that the number is accepted. · When the called party answers, push the [PTT] switch to talk, and release it to listen. D Calling another local system subscriber\*2 Enter the subscriber number followed by [3], [M]. · A high-pitched beep indicates that the number is accepted. · You hear ringing, then two short beeps when the subscriber answers. · If the other subscriber is on another call or out of range, you hear a fast busy signal and the call terminates automatically.



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D System busy indication If all channels are busy, three low beeps sound after you initiate a call. Try the call again later. D Displaying the received ID record (Available for SmarTrunk 3GTM only) Push [Trunking Caller ID SW] to display the received ID record in sequence.

The latest received ID is displayed at first. The record is cleared when the transceiver is turned OFF. \*1 D Memory speed-dialling\*2 To automatically dial a commonly used number from memory: Push [M] followed by the memory location (09). D Emergency call\*2 Push [0], [M] to initiate an emergency call.

Contact your dealer for details. Available for 4-key version when the [M] or [#] key function is assigned to any programmable key. \*2 Available for 10-keypad version only. Use the Turbo Speedial function instead. NOTE: For additional operating instructions, contact your Dealer. 29 6 OPTIONAL UNIT INSTALLATION I Optional unit installation Install the optional unit as follows: q Rotate [VOL] to turn the power OFF, and remove the battery pack.

(p. 2) w Remove the unit cover. NOTE: Use a flat head screw driver or a similar flat instrument, and insert into the hollow of the chassis, then lift and take away the unit cover. Use the supplied spare unit cover! Do not use the cover that has been removed once. Water or dust may get into the transceiver because the cover may be bent or has lost its adhesion.

This may result in the transceiver being damaged. r Replace the unit cover and the battery pack, then rotate [VOL] to turn the power ON. NOTE: The optional UT-109/UT-110 SCRAMBLER UNITS, UT-105 SmarTrunk IITM LOGIC BOARD or UT-117/UT-117S SmarTrunk 3GTM LOGIC BOARD requires some PC board modifications. Please refer to the additional installation as shown on pgs. 31 and 32.

e Install the unit as shown below. \*This illustration is described with the UT-113. 30 OPTIONAL UNIT INSTALLATION 6 I UT-109 and UT-110 installation The following PC board modification is required when installing the optional UT-109 or UT-110: q Rotate [VOL] to turn the power OFF, and remove the battery pack. (p. 2) w Remove the unit cover as shown on p. 30 (Optional unit installation). e Cut the pattern on the PCB at the TX mic circuit (MIC) and RX AF circuit (DISC) as shown below. r Install the scrambler unit as described in the Optional unit installation (p. 30). t Replace the unit cover and the battery pack, then rotate [VOL] to turn the power ON.

NOTE: When uninstalling the scrambler unit Be sure to re-solder the disconnected points at left, otherwise no TX modulation or AF output is available. 31 6 OPTIONAL UNIT INSTALLATION I UT-105, UT-117 and UT-117S installation The following PC board modification is required when installing the optional UT-105, UT-117 or UT-117S: q Rotate [VOL] to turn the power OFF, and remove the battery pack. (p. 2) w Remove the unit cover as described in the Optional unit installation (p. 30). e Cut and solder the pattern on the PCB at the RX AF circuit as shown at right. The next step r is necessary for the UT-117S installation. Go to step t to install the UT-105 or UT-117. r Cut the pattern on the PCB at the TX mic circuit (MIC) and RX AF circuit (DISC) as shown at right. t Install the UT-105/UT-117/UT-117S as described in the Optional unit installation (p.

30). y Replace the unit cover and the battery pack, then rotate [VOL] to turn the power ON. e A B C r UT-117S only NOTE: When uninstalling the smarTrunk 3GTM unit Be sure to un-solder A and B, and re-solder B and C as shown below, otherwise no AF output is available. Moreover, the UT-117S is required to re-solder the TX mic circuit (MIC) and RX AF circuit (DISC) (p. 31).

A Remove C B 32 BATTERY CHARGING 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 the power OFF while charging. Recommended temperature range for charging: +10°C to +40°C (+50°F to +104°F) Use the specified chargers (BC-119N, BC-121N and BC160). NEVER use another manufacture's charger. Use the specified AC adapter.

NEVER use another manufacture's adapter. 7 I Battery caution R DANGER Charge the specified Icom batteries only. Only tested and approved for use with genuine Icom batteries. Fire and/or explosion may occur when a third party battery pack or counterfeit product is charged. CAUTION! NEVER insert battery pack/transceiver (with the battery pack attached) in a wet or soiled condition into the charger. This may result in corrosion of the charger terminals or damage to the charger. The charger is not waterproof and water can easily get into it. NEVER incinerate used battery packs. Internal battery gas may cause an explosion. NEVER immerse the battery pack in water.

If the battery pack becomes wet, be sure to wipe it dry BEFORE attaching it to the transceiver. 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. Recommendation: Charge the supplied battery pack for a maximum of up to 10 hours. Li-Ion batteries are different from NiCd batteries in that it is not necessary to completely charge and discharge them to prolong the battery life. Therefore, charging the battery in intervals, and not for extended periods is recommended. AVOID leaving the battery pack in a fully charged, or completely discharged condition for long time. It causes shorter battery life. In case of leaving the battery pack unused for a long time, it must be kept safely after discharge, or use the battery until the battery indicator appears, then remove it from the transceiver.

If your battery pack seems to have no capacity even after being charged, fully charge the battery pack again. If the batteries still do not retain a charge (or very little), new battery pack must be purchased. 33 7 BATTERY CHARGING I Optional battery chargers 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. BP-231 AC adapter (Not supplied with some versions).

) TRANSCEIVER Connectors 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 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. w Screws supplied with the charger adapter Plugs 34 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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· American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields RF and Microwave. · The following accessories are authorized for use with this product. Use of accessories other than those specified may result in RF exposure levels exceeding the FCC requirements for wireless RF exposure.; Belt Clip (MB-94), Rechargeable Li-Ion Battery Pack (BP-231) and Speakermicrophone (HM-131L). 10 To ensure that your expose to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines: C A U T I O N · DO NOT operate the radio without a proper antenna attached, as this may damaged the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or antenna specifically authorized by the manufacturer for use with this radio. · DO NOT transmit for more than 50% of total radio use time ("50% duty cycle"). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded.



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*The radio is transmitting when the " " (TX indicator) lights.*

*You can cause the radio to transmit by pressing the "PTT" switch. · ALWAYS keep the antenna at least 2.5 cm (1 inch) away from the body when transmitting and only use the Icom beltclips listed on page 39 when attaching the radio to your belt, etc., to ensure FCC RF exposure compliance requirements are not exceeded. To provide the recipients of your transmission the best sound quality, hold the antenna at least 5 cm (2 inches) from your mouth, and slightly off to one side.*

*The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio. 41 10 SAFETY TRAINING INFORMATION Electromagnetic Interference/Compatibility During transmissions, your Icom radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites. Occupational/Controlled Use The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.*

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