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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F33GS. You'll find the answers to all your questions on the ICOM IC-F33GS 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-F33GS
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ICOM[®]

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. @@@@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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.... 4142 5 6 7 8 9 10 ACCESSORIES I Supplied accessories The following accessories are supplied: Qty.
q Flexible antenna

.1 w Battery pack

.....1 e Belt clip ..

.1 r Unit cover (double-sided tape)*

....1 t Jack cover (with screws) .

1 set *Use the unit cover as a spare. Ask your dealer for details. 1 I Accessory attachments D Flexible antenna Connect the supplied flexible antenna to the antenna connector. CAUTION! · NEVER HOLD by the antenna when carrying the transceiver. · Transmitting without an antenna may damage the transceiver. q w e t r 1 1 ACCESSORIES D Belt clip To attach the belt clip: q Release the battery pack if it is attached. w Slide the belt clip in the direction of the arrow until the belt clip is locked and makes a 'click' sound. i Battery pack To attach the battery pack: Slide the battery pack in the direction of the arrow (q), then lock it with the battery release button. · Slide the battery pack until the battery release button makes a 'click' sound. To release the battery pack: Push the battery release button in the direction of the arrow (w) as shown below.

The battery pack is then released. NEVER release or attach the battery pack when the transceiver is wet or soiled. This may result water or dust getting into the transceiver/battery pack and may result in the transceiver being damaged. To detach the belt clip: q Release the battery pack if it is attached. w Pinch the clip (q), and slide the belt clip in the direction of the arrow (w). w q q w 2 ACCESSORIES i Jack cover Attach the jack cover when the optional speaker-microphone is not used. To detach the jack cover: To attach the jack cover: q Attach the jack cover on q Unscrew the screws with a Phillips screwdriver. the [SP]/[MIC] jack. w Detach the jack cover for w Tighten the screws. the speaker-microphone connection.

1 w q q w 3 2 !1 !0 o PANEL DESCRIPTION I Front panel q w e DEALER-PROGRAMMABLE KEY [RED] Desired function can be programmed by your dealer. (p. 7) r [SP]/[MIC] JACK Connect the optional speaker-microphone. r i t y u [SP]/[MIC] jack cover NOTE: Attach the [SP]/[MIC] jack cover when the optional speaker-microphone is not used. (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. 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.



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**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 we 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 followoys 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-keying (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.



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· 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. @@ Ask your dealer or system operator for connection details. @@@@ PTT is released When 'Send with Logoff' is enabled. @@ After sending an SDM When 'Send with SDM' is enabled. @@@@ 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. @@ 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] 2 times 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. 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.



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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.

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 7 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-124) or the DC power cable (OPC-656) TRANSCEIVER BP-231 BP-231 AC adapter (Purchased separately) AD-106 charger adapters are installed in each slot. 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) 35 7 BATTERY CHARGING IMPORTANT!: Battery charging 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 36 SWIVEL BELT CLIP I MB-93 contents Qty. q Belt clip

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..... 1 w Base clip

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..... 1 q w 8 e Clip the belt clip to a part of your belt. And insert the transceiver into the belt clip until the base clip inserted fully into the groove. 1 To attach 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.



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37 8 SWIVEL BELT CLIP I To detach 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.

2) e Pinch the clip (q), and slide the base clip in the direction of the arrow (w). q w CAUTION! HOLD THE TRANSCEIVER TIGHTLY, WHEN HANGING OR DETACHING THE TRANSCEIVER FROM THE BELT CLIP. Otherwise the transceiver may not be attached to the holder or swivel properly if the transceiver is accidentally dropped and the base clip is scratched or damaged. 38 OPTIONS D BATTERY PACK · BP-230 Li-Ion BATTERY PACK 7.4 V/800 mAh Li-Ion battery pack, allows more than 6 hours operation.

· BP-231 Li-Ion BATTERY PACK 7.4 V/1150 mAh Li-Ion battery pack, allows more than 8 hours operation. The same as supplied with the transceiver. · BP-232 Li-Ion BATTERY PACK 7.4 V/2000 mAh Li-Ion battery pack, allows more than 16 hours operation. 9 D BELT CLIPS · MB-93 SWIVEL BELT CLIP · MB-94 BELT CLIP Exclusive alligator-type belt clip. The same as supplied with the transceiver. · MB-96N/96F LEATHER BELT HANGER D OPTIONAL UNITS · UT-108 DTMF DECODER UNIT Provides pager and code squelch capabilities. · UT-109 (#02)/UT-110 (#02) SCRAMBLER UNITS Non-rolling type (UT-109)/Rolling type (UT-110) voice scrambler unit provides higher communication security. · UT-113 MAN DOWN UNIT Provides a measure of safety when working in a hazardous environment, etc.

· UT-105 SmarTrunk IITM LOGIC BOARD Provides SmarTrunk IITM capabilities. @@@@An AC adapter is supplied with the charger depending on versions. Charging time: approx. 2 hours when BP-231 is attached. @@An AC adapter should be purchased separately. Charging time: approx. 2 hours when BP-231 is attached. @@@An AC adapter is supplied with the charger depending on versions. Charging time: approx. 2 hours when BP-231 is attached. 39 9 OPTIONS 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 D OTHER OPTIONS · SP-13 EARPHONE Provides clear receive audio in noisy environment. · HM-131L SPEAKER-MICROPHONE Combination speaker-microphone that provides convenient operation while hanging the transceiver from your belt. @@ · FA-SC73US STUBBY ANTENNA Shorter UHF antenna. @@@@Please ask your dealer for details. 40 SAFETY TRAINING INFORMATION Your Icom radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as "Occupational Use Only", meaning it must be used only during the W ARN ING course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the "General Population" in an uncontrolled environment.

This radio has been tested and complies with the FCC RF exposure limits for "Occupational Use Only". In addition, your Icom radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans: · FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.

· American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. · 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 AU 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. 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. 42 A-6360H-1EX-q Printed in Japan © 2004 Icom Inc. 1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan .



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