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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F34GT GS. You'll find the answers to all your questions on the ICOM IC-F34GT GS 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-F34GT GS  
User guide ICOM IC-F34GT GS  
Operating instructions ICOM IC-F34GT GS  
Instructions for use ICOM IC-F34GT GS  
Instruction manual ICOM IC-F34GT GS



INSTRUCTION MANUAL

VHF TRANSCEIVER  
**IC-F34GT/GS**  
UHF TRANSCEIVER  
**IC-F44GT/GS**

Icom Inc.

**BIIS 1200  
Compatible**



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**Manual abstract:**

*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 25°C or above +55°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. @@@@The transceiver construction is water resistant, not waterproof.*

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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.

\*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.



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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 following explanations, the specific key is used to activate the function depends on the programming. CH UP AND DOWN KEYS Push to select an operating channel. Push to select a transmit code channel after pushing [TX Code CH Select]. Push to select a DTMF channel after pushing [DTMF Autodial]. Push to select a scan group after pushing and holdin 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 emerge9;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 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. @@@@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.

@@@@Push [User Set Mode] momentarily to select the item. @@@@· " " appears and the mute is released.

@@@@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.

@@@@@ [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.



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@@to enter the queue memory channel selection mode. @@@@However, an error beep sounds and " " is displayed when no answer back is received after the calls. r Push [PTT] to transmit; release to receive. t Push [MONITOR] (Moni(Audi)) to send the 'Clear down' signal. NOTE: When no answer back is received, the transceiver repeats the call 3 times (default) automatically, and " " is displayed during each call. However, an error beep sounds and " " is displayed when no answer back is received after the calls. r Push [PTT] to transmit; release to receive. t Push [MONITOR] (Moni(Audi)) to send the 'Clear down' signal. 18 BIIS OPERATION 4 D Direct code entry q While in the standby condition, push [P3] (TX Code Enter) to enter the TX code edit mode. · Editable code digit blinks.

u Push [PTT] to transmit; release to receive. i Push [MONITOR] (Moni(Audi)) to send the 'Clear down' signal. For your information When the "UpDate" setting for the call code is enabled, the set code is overwritten into the call code memory. w Push [P3] (TX Code Enter) to select the desired digit to be edited. · Editable digit differs according to the setting. e Set the desired digit using [CH Up]/[CH Down]/[TX Code CH Up]/[TX Code CH Down] or 10-keypad. \* Depending on version r Push [P3] (TX Code Enter) to set the digit, then 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 [P3] (TX Code Enter). t Repeat e and r to input all allowable digits. 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. However, an error beep sounds and " " is displayed when no answer back is received after the calls. 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.

@@@@@ 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. @@@@ 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.



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: 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 SpeedDial To automatically dial a commonly used number with one push: · Push one of the turbo SpeedDials ([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 SpeedDial. 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 SpeedDial 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 it's 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.



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(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 · 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. AC adapter (Not supplied with some versions.) BP-231 TRANSCEIVER 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 Connectors 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 BP-231 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 AC adapter (Not supplied with some versions.) BP-231 AC adapter (Purchase separately) AD-106 charger adapters are installed in each slot.

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 lobes on the battery pack are correctly aligned with the guide rails inside the charger adapter. @@@@ @1 q w 8 e Clip the belt clip to a part of your belt. @@(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. 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 Battery pack BP-230 BP-231 BP-232 Voltage 7.4 V 7.4 V 7.4 V Capacity 800 mAh 1150 mAh 2000 mAh Battery life\* 6 hrs. IC-F34GT/GS IC-F44GT/GS 16 hrs.



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9 hrs. 8 hrs. 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. @@@@ · UT-117/117S\* SmarTrunk 3GTM LOGIC BOARD Provides SmarTrunk 3GTM capabilities. \*In addition to SmarTrunk 3GTM capabilities, UT-117S supports the voice scrambler capability. \* Operating periods are calculated under the following conditions; TX : RX : standby = 5 : 5 : 90 D CHARGERS · BC-119N DESKTOP CHARGER + AD-106 CHARGER ADAPTER + BC-145 AC ADAPTER For rapid charging of battery packs. An AC adapter is supplied with the charger depending on versions. Charging time: approx. 2 hours when BP-231 is attached.

· BC-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER (6 pcs.) + BC-124 AC ADAPTER For rapid charging of up to 6 battery packs (six AD-106's are required) simultaneously. An AC adapter should be purchased separately. Charging time: approx. 2 hours when BP-231 is attached. · BC-160 DESKTOP CHARGER + BC-145 AC ADAPTER For rapid charging of battery packs. 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. · HS-94/HS-95/HS-97 HEADSET + VS-1L VOX/PTT CASE HS-94: Ear-hook type HS-95: Neck-arm type HS-97: Throat microphone VS-1L: VOX/PTT switch box for hands-free operation, etc.

· FA-SC73US STUBBY ANTENNA Shorter UHF antenna. Frequency range: 450490 MHz · FA-SC56VS STUBBY ANTENNA Shorter VHF antenna. Frequency range: 150162 MHz · FA-SC57VS STUBBY ANTENNA Shorter VHF antenna. Frequency range: 160174 MHz Some options may not available in some countries. Please ask your dealer for details.

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Japan 1-1-32, Kamiminami, Hirano-ku Osaka 547-0003, Japan Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed. Kind of equipment: Type-designation: UHF TRANSCEIVER 0168 Düsseldorf 30th Apr. 2004 Place and date of issue iC- f44gt/gS 400 470 MHz 12.5 kHz/20 kHz/25 kHz Authorized representative name Version (where applicable): This compliance is based on conformity with the following harmonised standards, specifications or documents: i) ii) iii) iv) v) vi) EN 301 489-1 v1.3.1 (Sept 2001) EN 301 489-5 (August 2000) EN 60950 (August 1992+A11) EN 300 086-2 (March 2001) EN 300 219-2 (March 2001) EN 300 113-2 (March 2001) Signature 42 < Intended Country of Use > GER AUT GBR IRL NOR FRA NED BEL LUX ESP POR ITA GRE SWE DEN FIN SUI A-6362H-1EU-q Printed in Japan © 2004 Icom Inc. 1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan .



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