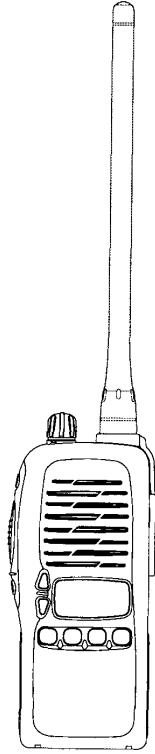
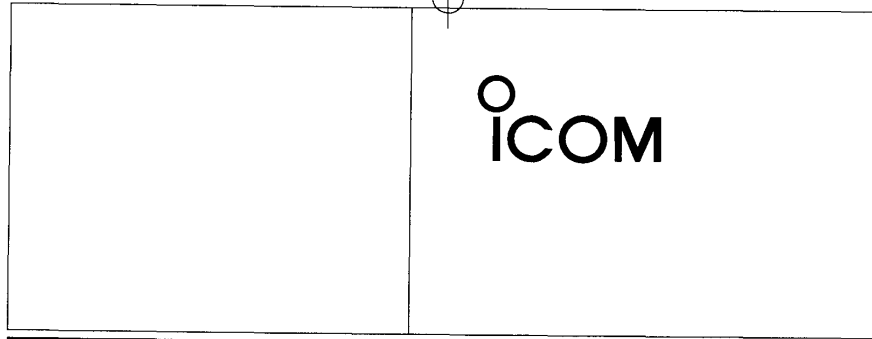


Count on us!



IC-F3GS

A-5621? -1EX  
Printed in Japan  
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INSTRUCTION MANUAL

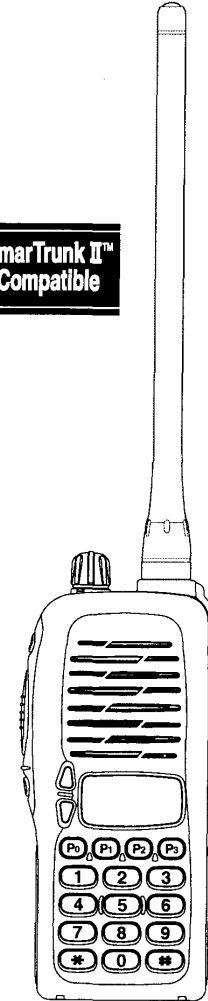
VHF TRANSCEIVER  
**IC-F3GT/GS**  
UHF TRANSCEIVER  
**IC-F4GT/GS**

**SmarTrunk II™**  
Compatible

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Icom Inc.**  
6-9-16 Kamihigashi, Hirano-ku, Osaka 547-0002 Japan

**Icom Inc.**



## FOREWORD

Thank you for purchasing the IC-F3GT/GS,IC-F4GT/GS FM transceiver.

**READ ALL INSTRUCTIONS** carefully and completely before using the transceiver.

**SAVE THIS INSTRUCTION MANUAL**—This instruction manual contains important operating instructions for the transceiver.

## IMPORTANT

⚠ **CAUTION! NEVER** hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 2 to 4 in. (5 to 10 cm) away from the lips and the transceiver is vertical.

⚠ **CAUTION! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels.

⚠ **CAUTION! NEVER** short terminals of the battery pack.

**DO NOT** push the PTT when not actually desiring to transmit.

**AVOID** using or placing the transceiver in direct sunlight or in areas with temperatures below +14°F (−10°C) or above +122°F (+50°C).

**DO NOT** modify the transceiver for any reason.

**KEEP** the transceiver from the heavy rain or **Never** immerse it in the water. Non water proof construction, it's only a **water resistance** construction.

The use of non-Icom battery packs/chargers may impair transceiver performance and invalidate the warranty.

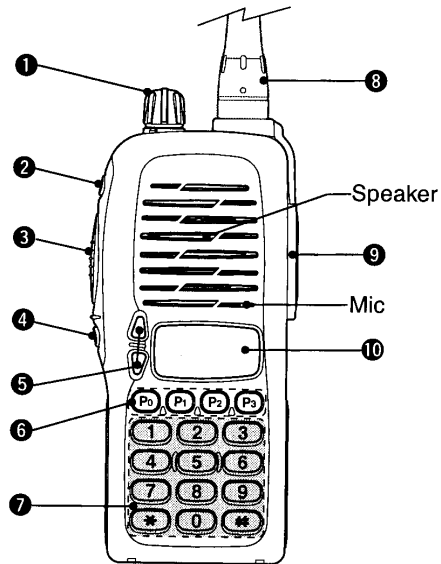
**FCC caution:** Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations.

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# 1 PANEL DESCRIPTION

## ■ Switches, controls, keys and connectors



### ◇ aikomuProgrammable key reference

S1 (Red)		P0	
S2 (Black)		P1	
▲		P2	
▼		P3	

## PANEL DESCRIPTION 1

### ① VOLUME CONTROL [OFF/VOL]

Turns power ON and adjusts the audio level.

### ② DEALER-PROGRAMMABLE KEY [S1 (Red)]

### ③ PTT SWITCH [PTT]

Push and hold to transmit; release to receive.

### ④ DEALER-PROGRAMMABLE KEY [S2(Black)]

### ⑤ UP/DOWN KEYS [▲]/[▼]

- Push to select the operating channel.

- Can be programmed as [ \* ]/[ # ]. (SmarTrunk mode only)

### ⑥ DEALER-PROGRAMMABLE KEYS [P0]/[P1]/[P2]/[P3]

Can each be programmed for one of several functions by your Icom Dealer.

### ⑦ 10 KEYPAD (IC-F3GT/IC-F4GT only)

Used to enter DTMF codes, the operating channel, etc.

### ⑧ ANTENNA CONNECTOR

Connects the supplied antenna.

### ⑨ [SP]/[MIC] JACK

Connect optional speaker-microphone.

### ⑩ FUNCTION DISPLAY

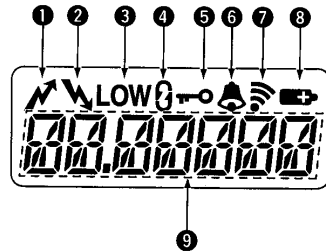
Displays the following the information:

- CH number.
- 5-tone indication.
- Low-battery indication.
- DTMF numbers.
- Low-power indication.
- Skip-ch indication.
- Audible indication.

/// **NOTE:** Above functions depend on pre-setting.

1 PANEL DESCRIPTION

■ Function display



- ① **TRANSMIT INDICATOR**  
Appears during PTT on.
- ② **BUSY INDICATOR**  
Appears while receiving a signal or when the squelch is open.
- ③ **LOW POWER INDICATOR** (p. 12)  
Appears when low output power is selected.
- ④ **SCRAMBLER INDICATOR**  
Appears while the scrambler function is operating.
- ⑤ **KEY LOCK INDICATOR** (p. 12)  
Appears during key lock function ON.
- ⑥ **BELL INDICATION**  
Appears or binks when the optional 2/5Tone call is received.
- ⑦ **AUDIBLE INDICATOR**  
Appears when monitor function is turned ON. (CTCSS and DTCS mutes are released.)
- ⑧ **LOW BATTERY INDICATOR** [ ]  
-When appears, battery capacity is becoming low and transmitting is impossible.  
- When flashes, battery capacity is nearly exhausted.
- ⑨ **ALPHANUMERIC INDICATOR**

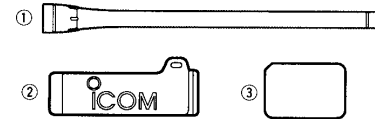
ACCESSORIES 2

■ Accessory attachment

◇ Supplied accessories

The transceiver comes supplied with the following accessories.

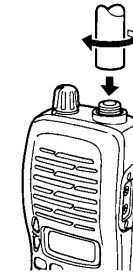
- ① Flexible antenna
- ② Belt clip
- ③ 2251 OPT sheet  
(See p. 26)



◇ Antenna

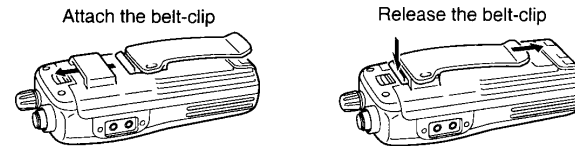
The antenna screws onto the transceiver as illustrated right.

**Keep** the jack cover attached when jacks are not in use to avoid bad contacts.



◇ Belt clip

Attach the belt clip to the transceiver as illustrated below.

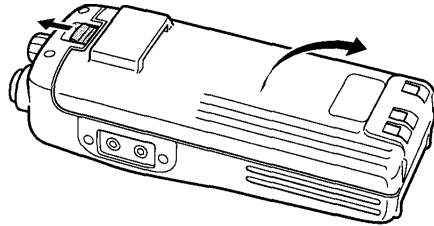


### 3 BATTERY PACKS

#### ■ Battery pack replacement

Before replacing the battery pack, the volume control **MUST** be rotated fully counterclockwise, until a click is heard, to turn the power OFF.

- Pull the battery release forward, then pull the battery pack upward with the transceiver facing you.



#### ◇ BATTERY PACKS

Battery pack	Voltage	Capacity	Charging period		Operating period*1
			BC-137	BC-119 or BC-121 with AD-94	
BP-208	Battery case for AA (R6) × 6 alkaline			N/A	
BP-209	7.2 V	1100 mAh	15 hrs	1.5 hrs	8 hrs
BP-210	7.2 V	1650 mAh	15 hrs	2.0 hrs	11 hrs

\*1 Operating periods are calculated under the following conditions;  
Tx : Rx : standby = 5 : 5 : 90

\* Operating period depends on alkaline cells used.

#### ■ Battery cautions

- **CAUTION! NEVER** short terminals of the battery pack (or charging terminals of the transceiver). Also, current may flow into nearby metal objects such as necklace. So be careful when placing battery packs (or the transceiver) in handbags, etc. Simply carrying with or placing near metal objects such as necklace, etc. causes shorting. This will damage not only the battery pack but also the transceiver.
- **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.
- **Clean** the battery terminals to avoid the rust or miss contact.
- **Keep** battery contacts clean. It's a good idea to clean battery terminals once a week.

If your battery pack seems to have no capacity even after being charged, completely discharge it by leaving the power ON overnight. Then, fully charge the battery pack again. If the battery pack still does not retain a charge (or very little), a new battery pack must be purchased.

#### ◇ Recycling information (U.S.A. only)



The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Call 1-800-822-8837 for battery recycling options in your area or contact your dealer.

**3 BATTERY PACKS**

**Battery charging**

Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation.

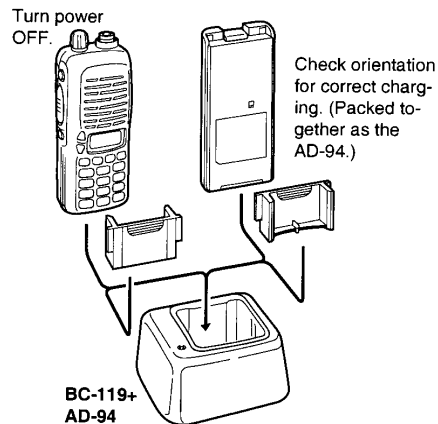
- Recommended temperature range for charging: +10°C to +40°C (50°F to 140°F).
- Use the supplied charger or optional charger (BC-119/BC-121 for rapid charging) only. **NEVER** use other manufacturers' chargers.

◇ **Rapid charging with the BC-119+AD-94**

The optional BC-119 provides rapid charging of optional battery packs.

The following are additionally required:

- One AD-94.
- An AC adapter (may be supplied with the BC-119 depending on version).

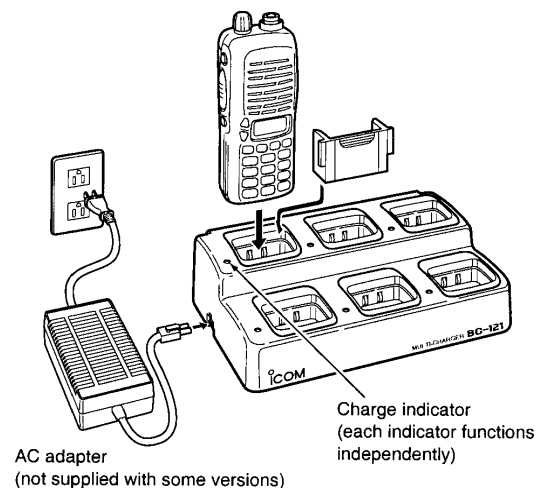


**BATTERY PACKS 3**

When using the BC-119 in the vehicle: If the charge indicator flashes orange, the vehicle battery voltage is low and charging may not be performed. Check the vehicle battery voltage in this case. If the charge indicator flashes red, there may be a problem with the battery pack (or charger). Re-insert the battery pack or contact your dealer.

The optional BC-121 allows up to 6 battery packs to be charged simultaneously. The following are additionally required.

- Six AD-94s.
- An AC adapter (may be supplied with the BC-121 depending on version).



### 3 BATTERY PACKS

#### ■ Charging NOTE

The optional BP-209 or BP-210 battery packs include rechargeable Ni-Cd(Ni-MH: BP-210) batteries and can be charged approx. 300 times. Charge the battery pack before first operating the transceiver or when the battery pack becomes exhausted.

If you want to charge the battery pack more than 300 times, the following points should be observed:

- Avoid over charging. The charging period should be less than 48 hours.
- Use the battery until it becomes almost completely exhausted under normal conditions. We recommend battery charging after transmitting becomes impossible.

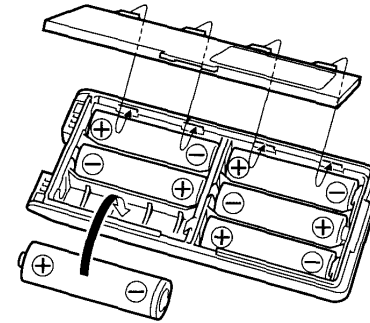
#### ◇ Battery pack life

When the operating period becomes extremely short even after charging the battery pack fully, a new battery pack is needed.

### BATTERY PACKS 3

#### ■ Battery case (Option)

When using a BP-208 OPTIONAL BATTERY CASE attached to the transceiver, install 6 AA (R6) size alkaline batteries as illustrated below.



#### ◇ CAUTIONS

- Use **ALKALINE** batteries only.
  - **Make sure** all battery cells are the same brand, type and capacity.
  - **Never** mix old and new batteries.  
Either of the above may cause a fire hazard or damage the transceiver.
  - **Never** incinerate used battery cells since internal battery gas may cause them to rupture.
  - **Never** expose a detached battery case to water.
- If the battery case gets wet, be sure to wipe it dry before using.



## 4 PROGRAMMABLE FUNCTIONS

### ■ General


In the following explanations, programmable function names are bracketed, the specific switch used to activate the function depends on programming.

#### ◆ KEYPAD LOCK FUNCTION

This function locks access to all programmable switches (except the switch assigned the lock function).

:

Push and hold the [LOCK] switch for 1 sec. to toggle the lock function ON and OFF.

- “” appears while the lock function is ON.
- This function may be inhibited on some channels.

#### ◆ PRIORITY CHANNEL

This function is used to select a pre-programmed channel at the push of a switch.

Push the [PRIORITY] switch to select the priority channel.

- “PRIO” appears briefly, then the priority channel is automatically selected.

#### ◆ SCAN FUNCTION

The scan function allows you to search a pre-programmed group of channels for signals.

Push the [SCAN] switch to start/stop scan.

- Scan pauses on a channel when receiving a signal.
- Depending on programming, a message may appear while scanning.
- “Lockout SCAN” (pre-programmed list SCAN) or “Priority SCAN” can be pre-programmed.
- When the “Power-save function” is activated, the transceiver

### PROGRAMMABLE FUNCTIONS 4

checks all pre-programmed channels then returns to the “Power-save function” again.

#### ◆ HIGH/LOW POWER OUTPUT

This function selects high or low power for a channel.

Push the [HIGH/LOW] switch to toggle between high and low power.

- “LOW” appears when low output power is selected.

#### ◆ SCRAMBLER FUNCTION (optional UT-109 #01\* or UT-110 #01\* is required.)

This function provides higher communication security.

UT-109: Non-rolling type. 32 code numbers are available.

UT-110: Rolling type. 1020 (4 group × 255) code numbers are available.

Push the [SCRM] switch to toggle the function ON and OFF.

**NOTE: NEVER use #02** High AF level version, as they are not compatible

#### ◆ BEEP FUNCTION

This function provides confirmation beep tones when pushing switches.

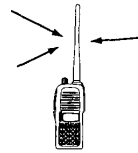
Push the [BEEP] switch to toggle the function ON and OFF.



**4** PROGRAMMABLE FUNCTIONS

**◇ MONITOR AUDIBLE FUNCTION**

The monitor function allows you to open the transceiver's squelch manually to check whether a channel is busy or not. The transceiver has 2 conditions for receive standby:

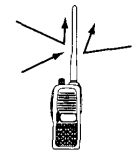


All signals are received

**Audible condition:**

This condition mutes audio ONLY when no carrier is present. You can receive (or monitor) any signals on a channel.

- Push and hold the [MONI/AUDI], switch to select the audible condition. Any audio mute functions are cancelled while pushing the [MONI/AUDI] switch.



Only signals containing the proper tone are received

**Inaudible condition:**

This condition mutes ALL signals except those directed to you. Therefore you should check a channel's condition (busy or not) with the monitor function before transmitting.

- Push the [MONI/AUDI] switch momentarily to select the inaudible condition.

**◇ TALK AROUND**

The talk around function changes duplex channels to simplex channels.

- **Duplex** allows you to contact your base station, repeaters, etc.
- **Simplex** allows you to contact other portable transceivers directly (portable-to-portable contact).

Push the [TALK AROUND] switch one or more times to toggle the function ON and OFF.

PROGRAMMABLE FUNCTIONS **4**

**◇ DTMF TRANSMISSION**

This function allows you to send a pre-programmed DTMF code to control a repeater, open another transceiver's squelch, etc.

**Manual transmission:**

Push desired digit keys in sequence while pushing [PTT].

- Pushing [PTT] may not be necessary depending on programming.

**Automatic pre-programmed transmission:**

- ① Push the [DTMF] switch to select DTMF autodial mode then push [▲] or [▼] to select the desired channel.
- ② Push the [DTMF] switch once more to send a DTMF code.

**◇ DTMF RE-DIAL FUNCTION**

This function allows you to transmit the last-used DTMF code at the push of a key.

Push the [DTMF RE-DIAL] switch momentarily to activate the function.

- The previously transmitted DTMF code is automatically transmitted.
- If no code has been transmitted since turning the power ON, this function does not activate.

**◇ EMERGENCY FUNCTION**

The emergency function allows you to send your ID quickly and easily to your Base Station, etc. in case of emergency.

Push and hold the [EMERGENCY] switch for 1 sec. to activate the emergency function.

- The transceiver selects a pre-programmed channel, then sends an emergency signal to your Base Station.
- The pre-programmed channel remains selected until a control signal is received from the Base Station or power is turned OFF.

#### 4 PROGRAMMABLE FUNCTIONS

- The emergency call is repeatedly transmitted at pre-programmed intervals.

##### ◆ DISPLAY LIGHTING

The function display has 3 backlight conditions.

**OFF** : No backlight is available.

**AUTO** : When any key is pushed, the backlight turns ON for 5 sec. automatically.

**CONTINUOUS** : Backlight turns ON continuously.

##### ◆ SmarTrunk II™ functions

This transceiver provides SmarTrunk II™ functions.

(Optional UT-105 SmarTrunk II™ Logic Board is required.)

The optional UT-105 allows communication over conventional channels or SmarTrunk II™ channels. Select a channel bank for SmarTrunk II™ before trunking operation.

To toggle SmarTrunk II™ channels and conventional channels.

Push the [Bank Up] switch one or more times.

- Scanning starts when a channel bank for SmarTrunk II™ is selected.
- Contact your dealer for channel bank details.  
(See p.21 for more detailed operation.)

## CONVENTIONAL OPERATION

## 5

### ■ Receiving and transmitting

- NOTE:** Transmitting without an antenna may damage the transceiver. See p.1 for antenna attachment.  
Turn power ON as described on p. 1.

Receiving:

- ① Push [▲]/[▼] to select a channel.
- ② Listen for a transmission and adjust [VOL] to a comfortable listening level.
  - When no transmission is heard, push and hold monitor while adjusting [VOL] (your transceiver may not be programmed with the monitor function).

The transceiver is now set to receive desired calls on the selected channel.

Transmitting:

Wait for the channel to become clear to avoid interference.

- ③ While pushing and holding [PTT], speak into the microphone at a normal voice level.
  - When a tone signalling system is used, the call procedure described at right may be necessary.
- ④ Release [PTT] to return to receive.

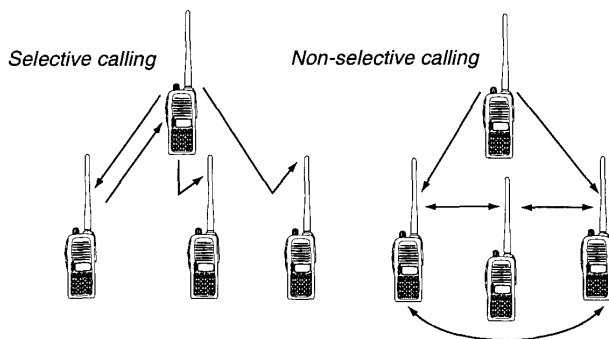
**IMPORTANT:** To maximize the readability of your transmitted signal, pause a few secs. after pushing [PTT], hold the microphone 10 to 15 cm from your mouth and speak at a normal voice level.

**5** CONVENTIONAL OPERATION

**■ Call procedure**

When your system employs tone signalling (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.

- ① Select the desired Tx code channel or 5-tone code according to your System Operator's instructions.
  - This may not be necessary depending on programming.
  - Refer to the next page for selection.
- ② Push the call switch (assigned to one of the dealer programmable switches: [P0], [P1], [P2], [P3], [S1] and [S2]).
- ③ After transmitting a 5-tone code, the remainder of your communication can be carried out in the normal fashion.



CONVENTIONAL OPERATION **5**

**■ Tx code channel selection**

Your radio may be programmed for Tx code channel selection. In this case, you can choose a Tx code channel to be transmitted when using the call function (p. 7).

Push the Tx code channel switch (assigned to one of the dealer-programmable switches) to activate the function, then enter digits via the keypad to select the desired Tx code channel.

- The selected code channel (containing a pre-programmed 5-tone code) is transmitted when using the call function.

**■ Manual 5-tone codes**

Depending on programming, you may be able to send 5-tone codes manually.

Push the Tx code switch to activate the function, then enter the desired transmit code (up to 7 digits) using the keypad.

- Activate the call function to transmit the 5-tone code.
- Blinking indicates keypad entry is acceptable.

**■ Transmitting notes**

**◆ TIME-OUT TIMER**

After continuous transmission for a pre-programmed period, the time-out timer is activated, causing the transceiver to stop transmitting and automatically select receive.

**◆ PENALTY TIMER**

Once the time-out timer is activated, transmission is further inhibited for a period determined by the penalty timer.

## 6 SmarTrunk II™ OPERATION

SmarTrunk II™ OPERATION 6

### ■ Basic operation

These features are enabled by your Dealer or System operator and may not be available in your system. Contact your Dealer for details.

Push the [Bank Up] switch one or more times to select a channel bank for conventional channels or SmarTrunk II™ channels.

- Scanning starts when a channel bank for SmarTrunk II™ is selected.

#### ◆ PTT dispatch operation <sup>\*1</sup>

- ① Push [PTT] once (without dialing) to initiate a dispatch call.
- ② Begin talking after you hear three beeps (one short, high-pitched, two very-short, low-pitched).
- ③ Receiving a dispatch call is indicated by the same three-beep sequence.
  - It is not necessary to push [\*] to answer a dispatch call.

#### ◆ System busy indication

If all channels are busy, three low beeps sound after you initiate a call. Try the call again later.

#### ◆ Receiving a subscriber-to-subscriber call <sup>\*1</sup>

When you hear ringing, push [\*] 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.

#### ◆ Receiving a landline-to-subscriber call <sup>\*1</sup>

When you hear ringing, push [\*] 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.

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#### ◆ Terminating a call <sup>\*1</sup>

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.

#### ◆ Last number redial <sup>\*1</sup>

- Push [\*], [\*] to automatically redial the last number called.
- A high-pitched beep indicates that the number is accepted.

<sup>\*1</sup>: This function is available for the IC-F3GS/IC-F4GS when the [▲]/[▼] keys are assigned the [\*]/[#] key functions.

#### ◆ Turbo SpeedDial

To automatically dial a commonly used number with one push:

- Push one of the turbo SpeedDial.

#### ◆ Programming memory speed dial

- ① Push and hold [\*] until you hear a high-pitched beep.
- ② Enter the memory location (0–9, A, B, C, D), the telephone or subscriber number, then [1], [\*] (or [3], [\*] if for another system subscriber).
  - A high-pitched beep indicates successful programming.
  - Memories [A]–[D] are used for the Turbo SpeedDial.

/// **NOTE:** This function is available for the IC-F3GT/IC-F4GT only.

#### ◆ Memory speed-dialing <sup>\*2</sup>

To automatically dial a commonly used number from memory:

- Push [\*] followed by the memory location (0–9).

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## 6 SmarTrunk II™ OPERATION

### ◆ 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 [ \* ], [ \* ] immediately to redial the last number.

### ◆ Emergency call \*2

Push [0], [ \* ] to initiate an emergency call.

- Contact your Dealer for details.

### ◆ Placing a telephone call \*2

Enter the phone number followed by [1], [ \* ].

- 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.

### ◆ Calling another local system subscriber \*2

Enter the subscriber number followed by [3], [ \* ].

- 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.

\*1: This function is available for the IC-F3GS/IC-F4GS when the [▲]/[▼] keys are assigned the [ \* ]/[ # ] key functions.

\*2: This function is available for the IC-F3GT/GS, IC-F4GT/GS only.

Use the Turbo Speedial function instead.

**For additional operating instructions, contact your Dealer or System Operator.**

## OTHER FUNCTION

## 7

### ■ DTMF PAGER/CODE SQUELCH

When you install optional UT-108 DTMF DECODER UNIT into the transceiver, DTMF pager function or code squelch function will be available.

#### ◆ DTMF pager

This function uses DTMF tones for calling and can be used as a "common pager" to inform you that one of your group has called even if the operator is temporarily away from the transceiver.

- When the connection code is received, a beep sounds, then "🔔" flashes and shows the called stations code number.
- Called stations code number memorised automatically, and easy to re-call with "ID-MR select function".

#### ◆ Code squelch

This conveniently eliminates unwanted audio and is useful in group activities or security related activities where unwanted output can be problem. The function similar to a CTCSS tone squelch.

In order to use above functions, cloning is necessary via a PC using the optional CS-F3G cloning software. Using this software, the transceiver's model, individual RX code CH, TX code CH, Special Tone Link2 (must be 'E') on 5Tone screen, 5Tone signaling Form on Memory-CH screen, Log, RX C-No, Key&Display, Common AutoReset TimerB, and other settings related to operation can be set. Refer to the HELP file that comes with the CS-F3G CLONING SOFTWARE for available settings.

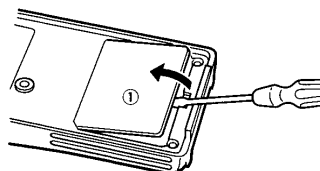
## 8 MAINTENANCE

### Optional UT-96/UT-105/UT-108/UT-109 and UT-110 and UT-111 installation

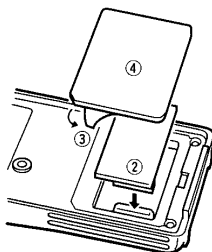
You can install one of the OPTIONAL signaling unit from UT-96 2Tone/5Tone unit, UT-105 SmarTrunk(TM) logic board, UT-108 DTMF decoder unit or UT-109/UT-110 Scrambler unit.

- ① Take off the optional connector access cover (named 2251 OPT sheet).

- Put the screwdriver into the hollow of the chassis, then lift and take away the cover. (The cover will not use later.)



- ② Attach the desired optional unit. Insert the connector tightly to avoid bad contact.
- ③ Remove the paper backing of 2251 OPT sheet supplied as accessory.
- ④ Put the new 2251 OPT sheet on to the service window.
- ⑤ Program the necessary informations with the cloning software before operation. Please ask your dealer or system operator for detail.



## CLONING 9

### Cloning

Cloning allows you to quickly and easily transfer the programmed contents from one transceiver to another transceiver; or data from PC to a transceiver using the optional CS-F3G CLONING SOFTWARE.

#### ◆ Transceiver-to-transceiver cloning

- ① Connect the optional OPC-474 CLONING CABLE with adapter plugs to the [SP] jack of the master and slave transceivers.
  - The master transceiver is used to send data to the slave transceiver.
- ② While pushing [P3], push [▲] to enter cloning mode(master transceiver only—power on only for slave transceiver).
  - “CLONE” appears and the transceiver enter the clone standby condition.
- ③ Push [PTT] on master transceiver.
  - “CLOUT” appears in the master transceiver’s display.
  - “CL IN” appears automatically in the slave transceiver’s display.
  - When cloning is finished, “CLONE” appears in the master transceiver’s display.

**NOTE: DO NOT** push the [PTT] on the slave transceiver during cloning, This will cause a cloning error.
- ④ When cloning is finished, turn power off, then on again to return to normal operation.

#### ◆ PC-to-transceiver cloning

Please refer to the HELP file that comes with the CS-F3G CLONING SOFTWARE.

**CAUTION:** Imprudent cloning operation cause a cloning error. In such a case, memory contents may lose. Cloning must then be repeated.

## 9 OPTIONS

### Options

#### ◆ BATTERY PACKS

##### • BP-208\* BATTERY CASE

Allows a set of Alkaline batteries to operate the handheld when charging rechargeable battery or in emergencies, etc. 6 AA (R6) cells are required.

##### • BP-209\* Ni-Cd BATTERY PACK

7.2 V/1100 mAh Ni-Cd battery pack, allows more than 8 hours\* operation.

##### • BP-210\* Ni-MH BATTERY PACK

7.2 V/1650 mAh Ni-MH battery pack, allows approx. 11 hours\* operation.

##### • BP-211\* Li-Ion BATTERY PACK

Lithium Ion battery pack (will be available later)

#### ◆ CHARGER

##### • BC-119 DESKTOP CHARGER

For rapid charging of battery packs. An AC adapter is supplied with the charger. Charging time: 1.5 to 2 hrs.

##### • BC-121 MULTI-CHARGER

For rapid charging up to 6 battery packs simultaneously. An AC adapter may be supplied depending on version. Six AD-94's are necessary. Charging time: 1.5 to 2 hrs.

##### • AD-94 CHARGER ADAPTOR

##### • BC-137 DESKTOP CHARGER

For regular charging to BP-209 (Ni-Cd) and BP-210 (Ni-MH).

##### • BC-138\* BATTERY CHARGER

Regularly charges a battery pack, BP-213, with/without transceiver.

#### ◆ OTHER OPTIONS

##### • UT-96 2/5TONE UNIT

Provides 2/5Tone capabilities.

##### • UT-105 SmarTrunkII(TM) Logic Board

Provides SmarTrunkII(TM) capabilities.

##### • UT-108 DTMF DECODER UNIT

Provides ANI operation.

##### • UT-109/UT-110 SCRAMBLER UNIT

Non-rolling type(UT-109)/ Rolling type voice scrambler unit provides higher communication security.

##### • UT-111 TRUNKING BOARD

Provides trunking operation.

##### • HM-46L/HM-75 SPEAKER-MICROPHONES

Combination speaker-microphone that provides convenient operation while hanging the transceiver from your belt clip.

##### • HS-51 HEAD SET

Allows you hands-free operation. Includes VOX, PTT and TOT.

##### • SP-13 EARPHONE

Provides clear receive audio in noisy environments.

##### • MB-74 BELT CLIP

Exclusive belt clip for IC-F\*\*G series.

##### • CS-F3G CLONING SOFTWARE

Allows you to clone the memory contents of an IC-F\*\*G series between transceivers or to a PC editing.

##### • OPC-474 CLONING CABLE

Cloning cable for transceiver to transceiver

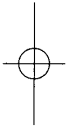
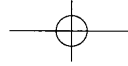
##### • OPC-478 CLONING CABLE

Cloning cable for PC to transceiver.

**ALL stated specifications are subject to change without notice or obligation.**

**10** MEMO

MEMO **10**



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