The photo shows the IC-F3GT.
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.

EXPLICIT DEFINITIONS

<table>
<thead>
<tr>
<th>WORD</th>
<th>DEFINITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️ DANGER!</td>
<td>Personal death, serious injury or an explosion may occur.</td>
</tr>
<tr>
<td>⚠️ WARNING!</td>
<td>Personal injury, fire hazard or electric shock may occur.</td>
</tr>
<tr>
<td>CAUTION</td>
<td>Equipment damage may occur.</td>
</tr>
<tr>
<td>NOTE</td>
<td>If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.</td>
</tr>
</tbody>
</table>

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PRECAUTIONS

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

⚠️ **WARNING! 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 5 to 10 cm away from the lips and the transceiver is vertical.

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

**CAUTION: NEVER** use non-Icom battery packs/chargers to prevent the loss of the transceiver’s good performance and warranty.

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

**DO NOT** use or place the transceiver in direct sunlight or in areas with temperatures below –10°C or above +50°C.

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

**KEEP** the transceiver from the heavy rain, and **NEVER** immerse it in the water. The transceiver construction is **water resistant**, not waterproof.

Approved Icom optional equipment is designed for optimal performance when used with an Icom transceiver. Icom is not responsible for the destruction or damage to an Icom transceiver in the event the Icom transceiver is used with equipment that is not manufactured or approved by Icom.
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   ■ Cloning ....................................................................21
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1 PANEL DESCRIPTION

■ Switches, controls, keys and connectors

diamond Programmable key reference

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>S1 (Red)</td>
<td>P0</td>
</tr>
<tr>
<td>S2 (Black)</td>
<td>P1</td>
</tr>
<tr>
<td>▲</td>
<td>P2</td>
</tr>
<tr>
<td>▼</td>
<td>P3</td>
</tr>
</tbody>
</table>
1 VOLUME CONTROL [OFF/VOL]
   Rotate to 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.

6 DEALER-PROGRAMMABLE KEYS [P0]/[P1]/[P2]/[P3]
   Can each be programmed for one of several functions by your Icom Dealer.

7 10-KEY PAD (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 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.
Function display

1 TRANSMIT INDICATOR
   Appears while transmitting.

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 voice scrambler function is activated.

5 KEY LOCK INDICATOR (p. 11)
   Appears while the key lock function is turned ON.

6 BELL INDICATOR
   Appears or blinks when a 2/5Tone call is received.

7 AUDIBLE INDICATOR
   Appears while the monitor function is turned ON. (CTCSS and DTCS mutes are released.)

8 LOW BATTERY INDICATOR
   - When “➕” appears, battery capacity is low and transmitting is impossible.
   - When “➕➕” flashes, battery capacity is nearly exhausted.

9 ALPHANUMERIC INDICATOR
   Displays an operating channel number, channel name, DTMF code, etc.
Accessories

Accessory attachment

Diamond Supplied accessories
The following accessories are supplied. Qty.
- Battery pack ................................................................. 1
- Flexible antenna ............................................................ 1
- Belt clip (with screws) ................................................... 1
- 2251 OPT sheet* .......................................................... 1
* See p. 20 for details.

Diamond 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.

Diamond Belt clip
Attach the belt clip to the transceiver as illustrated below.

Use the supplied screws only.
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.

- Slide the battery release forward, then pull the battery pack upward with the transceiver facing away from you.

◊ BATTERY PACKS

<table>
<thead>
<tr>
<th>Battery pack</th>
<th>Voltage</th>
<th>Capacity</th>
<th>Charging period</th>
<th>Battery life*¹</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>BC-146</td>
<td>BC-119N or BC-121N with AD-101</td>
</tr>
<tr>
<td>BP-208N²</td>
<td>7.2 V</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>BP-209N</td>
<td>7.2 V</td>
<td>1100 mAh</td>
<td>12 hrs.</td>
<td>1.5 hrs.</td>
</tr>
<tr>
<td>BP-210N</td>
<td>7.2 V</td>
<td>1500 mAh (minimum)</td>
<td>18.5 hrs.</td>
<td>2.0 hrs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1650 mAh (typical)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BP-222N</td>
<td>7.2 V</td>
<td>600 mAh</td>
<td>6.5 hrs.</td>
<td>1.0 hrs.</td>
</tr>
</tbody>
</table>

*¹ Operating periods are calculated under the following conditions;
Tx : Rx : standby = 5 : 5 : 90
*² Output power is automatically reduced to 1 W to retain sufficient power in case of emergency, etc.
*³ Operating period depends on the alkaline cells used.
Battery cautions

⚠️ **DANGER! NEVER** short the terminals of the battery pack (or charging terminals of the transceiver). Also, current may flow into nearby metal objects such as a necklace, so be careful when placing battery packs (or the transceiver) in handbags, etc. Simply carrying with or placing near metal objects such as a necklace, etc. may cause shorting. This may damage not only the battery pack, but also the transceiver.

⚠️ **DANGER! NEVER** incinerate used battery packs. Internal battery gas may cause an explosion.

⚠️ **WARNING! 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 rust or miss contact.

**Keep** battery terminals 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 only very little charge), a new battery pack must be purchased. (p. 5)
Battery charging

◊ Rapid charging with the BC-144N
The optional BC-144N provides rapid charging of the battery pack. The following items are additionally required:
• AD-99N* and an AC adapter (not supplied with some versions).
  *Supplied with the charger.

Insert together with the AD-99N.
Check the orientation of the AD-99N for correct charging.

The BC-144N cannot be used in a vehicle, because the charger requires 16 V DC input.

◊ Spacer combination.
• Be sure to attach the spacer (Spacer B/C) to the adapter (Spacer A) with the orientation as illustrated in the diagram at right.
• Attach the spacer (Spacer B/C) to the adaptor with the orientation of the stamp “B” pointing up.

NOTE: Push the notch carefully when removing the spacer from the adaptor.
◊ Rapid charging with the BC-121N+AD-101
The optional BC-121N allows up to 6 battery packs to be charged simultaneously.
The following items are additionally required:
• Six AD-101 (The spacer is supplied with the AD-101.)
• An AC adapter (purchase separately).

◊ Regular charging with the BC-137 #11/BC-146
The optional BC-137 #11 or BC-146 provides regular charging of the battery pack. The following item is additionally required:
• AD-99N* and an AC adapter (purchase separately).
  *Supplied with the charger.

Turn power OFF.

Insert together with the spacer. Check the orientation of the spacer for correct charging.

AC adapter (Purchase separately)

Charge indicator (each indicator functions independently)

Turn power OFF.

Insert together with AD-99N. Check the orientation of AD-99N for correct charging.

BC-137 #11 or BC-146
3 BATTERY PACKS

■ Charging caution

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:
  Between +10°C and +40°C.
- Use the optional charger (BC-119N/BC-121N/BC-144N for rapid charging, BC-137 #11/BC-146 for regular charging) only. NEVER use other manufacturers’ chargers.

The battery pack contains a rechargeable battery. Charge the battery pack before first operating the transceiver, or when the battery pack becomes exhausted.

If you want to prolong the battery life, the following points should be observed:

- Avoid over charging. The charging period should be less than 20 hours.
- Use the battery pack 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 case (Option)

When using the optional battery case, install 6 × AA (LR6) size alkaline batteries as illustrated below.

**NOTE:** Output power is automatically reduced to 1 W to retain sufficient power in case of emergency, etc.

**CAUTIONS:**
- When installing batteries, make sure they are all the same brand, type and capacity. Also, do not mix new and old batteries together.
- Keep the battery terminals clean. It’s a good idea to clean the battery terminals once a week.
- 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 it.
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 for the lock function).

Push and hold the [LOCK] switch for 1 sec. to toggle the lock function ON and OFF.
• “ khoá” 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.
• “PRIIO” 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 checks all pre-programmed channels then returns to the “Power-save function” again.
◊ HIGH/LOW OUTPUT POWER
This function selects high or low output power for a channel.

Push the [HIGH/LOW] switch to toggle the transmit output power between high and low.
- “LOW” appears when low output power is selected.

◊ SCRAMBLER FUNCTION
(An 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 groups × 255) code numbers are available.

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

⚠️ NOTE: NEVER use #02 High AF level version of the scrambler unit, 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:

**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.

**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.
◊ 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.
- The emergency call is repeatedly transmitted at pre-programmed intervals.
4 PROGRAMMABLE FUNCTIONS

◊ DISPLAY LIGHTING
The function display has 3 backlight conditions.

OFF : No backlight.
AUTO : When any key is pushed, the backlight turns ON for 5 sec. automatically.
CONTINUOUS : Backlight stays ON continuously.
CONVENTIONAL OPERATION

Receiving and transmitting

CAUTION: Transmitting without an antenna may damage the transceiver. See p. 4 for antenna attachment.

Turn power ON as described on p. 2.

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.
1. 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.
2. Release [PTT] to return to receive.

IMPORTANT: To maximize the readability of your transmitted signal, pause a few sec. after pushing [PTT], hold the microphone 5 to 10 cm from your mouth and speak at a normal voice level.
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.
■ 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 selective calling function (p. 17).

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 selective calling 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 selective calling function to transmit the 5-tone code.
- The digit to be edited blinks.

■ Transmitting notes

◇ TIME-OUT TIMER
After continuously transmitting past a pre-programmed time 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 OTHER FUNCTIONS

DTMF PAGER/CODE SQUELCH

When you install optional the 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 “嘟” flashes and shows the called stations code number.
• Called stations code number are memorised automatically, and are 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 a problem. The function is similar to a CTCSS tone squelch.

In order to use the 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.
Optional unit installation

You can install an optional unit in the transceiver.

1. Remove the optional connector access cover (named 2251 OPT sheet).
   • Insert a screwdriver into the hollow of the chassis, then lift and take away the cover. (The cover can not be used again.)

2. Install the desired optional unit. Insert tightly to avoid a bad connection.
3. Remove the paper backing of 2251 OPT sheet supplied as an accessory.
4. Attach the new 2251 OPT sheet to the service window.
5. Program the necessary information with the cloning software before operation. Please ask your dealer or system operator for details.
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 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 [P0] and [▲], turn the transceiver’s power on to enter cloning mode (For both the master transceiver and slave transceiver).
   - “CLONE” appears and the transceiver enters the clone standby condition.
   - “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.

**NOTE:** Transceiver-to-transceiver cloning can not be done between 40CH version and 100CH version, or CPU Rev.1.x and Rev.2.0.

- While pushing [P3] and [▲], turn the transceiver’s power on to enter CPU version check mode. CPU revision is displayed (“100CH” display for 100CH version only).
◊ **PC-to-transceiver cloning**
Please refer to the HELP file that comes with the CS-F3G CLONING SOFTWARE.

**CAUTION:** Imprudent cloning operation causes a cloning error. In such a case, memory contents may be lost. Cloning must then be repeated.
9 OPTIONS

◊ BATTERY PACKS
  • **BP-208N** BATTERY CASE
    Battery case for 6 × AA (LR6) cells
  • **BP-209N** Ni-Cd BATTERY PACK
    Voltage : 7.2 V
    Capability : 1100 mAh
  • **BP-210N** Ni-MH BATTERY PACK
    Voltage : 7.2 V
    Capability : 1500 mAh (minimum)/1650 mAh (typical)
  • **BP-222N** Ni-Cd BATTERY PACK
    Voltage : 7.2 V
    Capability : 600 mAh

◊ REGULAR CHARGERS
  • **BC-137 (#11)** BATTERY CHARGER + **BC-122** AC ADAPTOR
  • **BC-146** BATTERY CHARGER + **BC-147S** AC ADAPTOR

◊ RAPID CHARGERS
  • **BC-144N** DESKTOP CHARGER + **BC-145S** AC ADAPTOR
  • **BC-121N** MULTI-CHARGER + **AD-101** CHARGER ADAPTER (6 pcs.)
    + **BC-157S** AC ADAPTER
  • **BC-119N** DESKTOP CHARGER + **AD-101** CHARGER ADAPTER
    + **BC-145S** AC ADAPTER

◊ INTERNAL UNITS
  • **UT-96** 5TONE UNIT
  • **UT-108** DTMF DECODER UNIT
  • **UT-109/UT-110** VOICE SCRAMBLER UNITS
OTHER OPTIONS

• **HM-131L SPEAKER-MICROPHONE**
• **HS-51 HEAD SET**
  Allows you hands-free operation. Includes PTT and TOT.
• **VS-1L VOX/PTT CASE + HS-94/HS-95/HS-97**
  HS-94 : Ear hook type
  HS-95 : Neck-arm type
  HS-97 : Throat microphone
• **SP-13 EARPHONE**
• **MB-103/MB-86 BELT CLIPS**
  MB-103 : Same as that supplied with the transceiver.
  MB-86 : Swivel belt clip
• **MB-96N/MB-96F BELT HANGERS**
  MB-96N : Swivel belt hanger.
  MB-96F : Standard type hanger.
  FA-SC25V : 136–150 MHz
  FA-SC25U : 400–430 MHz
  FA-SC72U : 470–520 MHz
  FA-SC55V : 150–174 MHz
  FA-SC57U : 430–470 MHz
• **FA-SC56VS/FA-SC57VS/FA-SC73US STUBBY ANTENNAS**
  FA-SC56VS : 150–162 MHz
  FA-SC73US : 450–490 MHz
  FA-SC57VS : 160–174 MHz
• **AD-98FSC ANTENNA CONNECTOR ADAPTER**
  Allows you to connect a BNC-type antenna.
• **CS-F3G CLONING SOFTWARE + OPC-478 CLONING CABLE**
  Allows you to clone the memory contents of an IC-F3GT/GS, IC-F4GT/GS by PC editing.
• **OPC-474 CLONING CABLE**
  Cloning cable for transceiver to transceiver

Some options may not be available in some countries. Please ask your dealer for details.
The photo shows the IC-F3GS.