



## INSTRUCTION MANUAL

VHF TRANSCEIVER

# IC-F510

UHF TRANSCEIVER

# IC-F610



Icom Inc.

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## IMPORTANT

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

**SAVE THIS INSTRUCTION MANUAL** — This instruction manual contains important operating instructions for the **IC-F510 VHF TRANSCEIVER AND IC-F610 UHF TRANSCEIVER**.

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## EXPLICIT DEFINITIONS

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WORD	DEFINITION
 <b>WARNING</b>	Personal injury, fire hazard or electric shock may occur.
<b>CAUTION</b>	Equipment damage may occur.
<b>NOTE</b>	If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.


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## PRECAUTIONS

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 **WARNING! NEVER** connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

 **WARNING! NEVER** connect the transceiver to a power source of more than 16 V DC such as a 24 V battery. This connection will ruin the transceiver.

 **WARNING! NEVER** cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver might be damaged.

 **WARNING! NEVER** place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury.

**CAUTION! NEVER** allow children to touch the transceiver.

**CAUTION! NEVER** expose the transceiver to rain, snow or any liquids.

**USE** the supplied or optional microphone only. Other microphones have different pin assignments and may damage the transceiver.

**DO NOT** use or place the transceiver in areas with temperatures below  $-25^{\circ}\text{C}$  or above  $+55^{\circ}\text{C}$  or, in areas subject to direct sunlight, such as the dashboard.

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**DO NOT** operate the transceiver without running the vehicle's engine. The vehicle's battery will quickly run out if the transceiver is in transmission while the vehicle's engine OFF.

**DO NOT** place the transceiver in excessively dusty environments.

**DO NOT** place the transceiver against walls. This will obstruct heat dissipation.

**DO NOT** use chemical agents such as benzine or alcohol when cleaning, as they damage the transceiver surfaces.

**BE CAREFUL!** The transceiver will become hot when operating continuously for long periods.

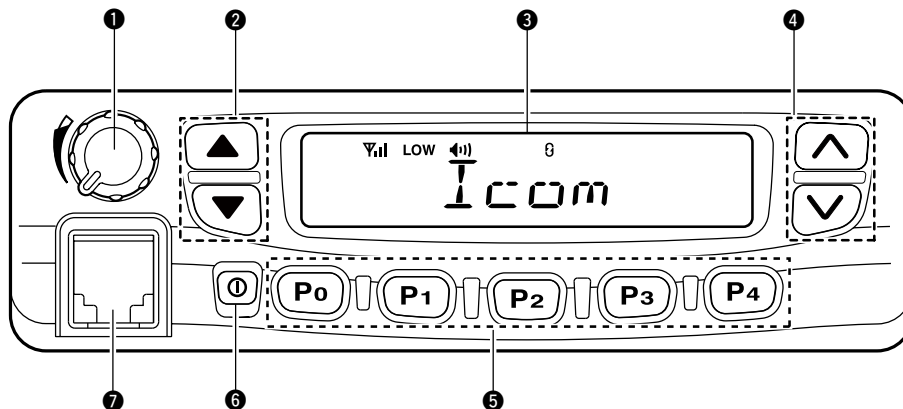
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## ■ Front panel



### ① AF VOLUME CONTROL KNOB

- ➔ Rotate the knob to adjust the audio output level.
  - Minimum audio level is pre-programmed.

### ② LEFT UP/DOWN [▲]/[▼] KEYS

- ➔ One of several functions can be programmed by your Dealer. (Same as [P0] to [P4] keys)

### ③ FUNCTION DISPLAY

- ➔ Displays variety of information, such as an operating channel number/name, 5-tone code, DTMF numbers and audible condition, etc.

**NOTE:** The above functions depend on pre-programming.

### ④ RIGHT UP/DOWN [▲]/[▼] KEYS

- ➔ Push to select the operating channel.
- ➔ Can be programmed for one of several functions by your Dealer. (Same as [P0] to [P4] keys)

## 5 DEALER-PROGRAMMABLE KEYS [P0] to [P4]

- Desired functions can be programmed independently by your Dealer.

## 6 POWER SWITCH [POWER]

- Push to turns the power ON and OFF.
  - The following functions are available at power ON as options:
    - Automatic scan start
    - Password prompt
    - Set mode

## 7 MICROPHONE CONNECTOR

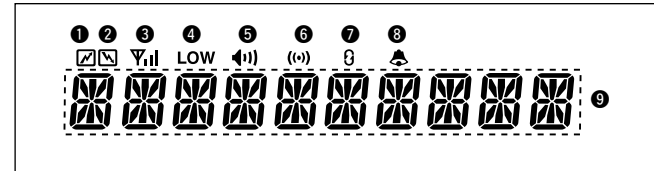
- Connect the supplied or optional microphone.

**NEVER** connect non-specified microphones. The pin assignments may be different and the transceiver may be damaged.

## MICROPHONE

- The supplied or optional microphone has a PTT switch and a hanger hook.
  - The following functions are available when the microphone is on or off hook:
    - Automatic scan start when hung on.
    - Automatic priority channel selection when hung off.
    - Sets to 'Inaudible' condition (mute condition) when hung on.
    - Sets to 'Audible' condition (un-mute condition) when hung off.

## Function display



### 1 TRANSMIT INDICATOR

- Appears while transmitting or sending a 5-tone code.

### 2 BUSY INDICATOR

- Appears while the channel is in busy.

### 3 SIGNAL STRENGTH METER

- Indicates relative signal strength level.

### 4 LOW POWER INDICATOR

- Appears when low output power is selected.

### 5 AUDIBLE INDICATOR

- Appears when the channel is in the 'Audible' condition (un-mute condition).

### 6 COMPANDER INDICATOR

- Appears when compander function is activated.

# 1 PANEL DESCRIPTION

## ⑦ SCRAMBLER INDICATOR

- ➡ Appears when scrambler function is activated. (Optional UT-109 (#02)/UT110 (#02) SCRAMBLER UNIT is required.)

## ⑧ 2/5TONE INDICATOR

- ➡ Appears when specified 2/5tone call is received.

## ⑨ ALPHANUMERIC DISPLAY

- ➡ Displays the CH number, 5-tone indication, DTMF numbers, Audible indication, etc.

## ■ Programmable function keys

The following functions can be assigned to [P0], [P1], [P2], [P3], [P4], [▲], [▼], [▲] and [▼] programmable function keys.

Consult your Icom Dealer or System operator for details concerning your transceivers programming.

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

[▲]

### **CH UP AND DOWN KEYS**

[▼]

- ➡ Select an operating channel.
- ➡ Select a transmit code channel after pushing the [TX CH] key.
- ➡ Select a DTMF channel after pushing the [DTMF] key.
- ➡ Select a scan group after pushing and holding [SCN A] or [SCN B] for 1 sec.

[BANK]

### **BANK KEY**

Push this key, then select the desired bank using [▲] or [▼].

[PRI A]  
[PRI B] **PRIORITY CHANNEL KEYS**

- ➔ Select Priority A or Priority B channel with each push.
- ➔ Push and hold [PRI A] (**Rewrite**) to reassign the operating channel as priority A channel.

[SCN A]  
[SCN B] **SCAN START/STOP KEY**

- ➔ Push this key to start scanning; and push again to stop.

/// **NOTE:** Place the microphone on hook to start scanning.  
/// Take the microphone off hook to stop scanning.

- ➔ Push and hold this key to indicate the scan group, then push [▲] or [▼] to select the desired group.

[TAG] **SCAN TAG KEY**

Adds or deletes the selected channel to the scan group.

[MR-1]  
[MR-2]  
[MR-3]  
[MR-4] **OPERATING CHANNEL KEYS**

Select an operating channel directly.

[MONI] **MONITOR KEY**

Activates one of (or two of) the following functions on each channel independently:

- 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 the communication is finished to send a 'reset code'.

/// **NOTE:** The unmute condition ('Audible' condition) may automatically return to the mute condition ('Inaudible' condition) after a specified period.

[ P A ] **PUBLIC ADDRESS KEY**

Push to activate the Public Address (PA) function for voice amplification. When the PA function is activated, the audio output can be controlled from the transceiver separately with [VOLUME] control.

- This function is available when the external unit, such as a audio amplifier, speaker, etc. is additionally connected. (pgs. 13, 14, 18)
- Push this key, then speak into the microphone while pushing and holding [PTT].

# 1 PANEL DESCRIPTION

## [RXSP] ***RX SPEAKER KEY***

Push to turn the RX speaker function ON or OFF.

When the RX speaker function is turned ON, the received audio can be heard via the external speaker that is connected to the D-Sub 25-pin.

- This function is available when the external speaker is additionally connected. (pgs. 13, 14, 18)
- This function is useful when you are out of the vehicle.
- The audio output level is linked to the transceiver's volume control.

## [LOCK] ***LOCK KEY***

Electronically locks all programmable keys except the following:

- [CALL] (incl. [CAL A] and [CAL B]), [MONI] and [EMER] keys.

## [H/L] ***OUTPUT POWER SELECTION KEY***

Select the transmit output power temporarily or permanently, depending on the pre-setting.

- Ask your Dealer or System Operator for the output power level for each selection.

## [TONE] ***C. TONE CHANNEL ENTER KEY***

Push this key then select a continuous tone memory channel number using the [^] or [v] keys to change the tone frequency.

## [T A] ***TALK AROUND KEY***

Turns the talk around function ON and OFF.

- The talk around function equalizes the transmit frequency to the receive frequency for mobile-to-mobile communication.

## [W/N] ***WIDE/NARROW KEY***

Push to toggle the IF bandwidth between wide or narrow.

## [DTMF] ***DTMF AUTODIAL KEY***

Push this key, then select the desired DTMF channel using the [^] or [v] keys.

Push the key to transmit the selected DTMF code.

## [DTMF] ***DTMF RE-DIAL KEY***

Push to transmit the last-transmitted DTMF code.

## [CALL] ***CALL KEYS***

[CAL A]  
[CAL B]  
Transmit a 5-tone code.

- Call transmission is necessary before you call another station depending on your signaling system.
- The [CAL A] and/or [CAL B] keys may be available when your system employs selective 'Individual/Group' calls. Ask your Dealer which call is assigned to each key.

[EMER]

### EMERGENCY KEY

Push and hold to transmit an emergency call.

- If you want to cancel the emergency call, push (or push and hold) the key again before transmitting the call.
- The emergency call is transmitted one time only or repeatedly until receiving a control code depending on the pre-setting.

[CODE]

### TX CODE ENTER KEY (p. 10)

Push to directly enter the TX code edit mode. Then, set the desired digit using [▲] or [▼].

[TX CH]

### TX CODE CH SELECT KEY (p. 10)

- ➔ Push to enter the TX code channel selection mode. Then, select the desired channel using [▲] or [▼].
- ➔ Push and hold this key for 1 sec. to enter the TX code edit mode. Then, set the desired digit using [▲] or [▼].

[CH UP]

### TX CODE CH UP/DOWN KEYS (p. 10)

[CH DN]

Push to select a TX code channel directory.

[ID MR]

### ID-MR SELECT KEY

- ➔ Recalls detected ID codes.
  - Push this key, then select the ID code using [▲] or [▼].
  - Up to 5 ID's are memorized.
- ➔ Push and hold this key to erase all memorized IDs.

[SCRM]

### SCRAMBLER KEY

- ➔ Push and hold to turn the voice scrambler function ON.
- ➔ Push to turn the voice scrambler function OFF.

#### NOTE:

- Optional UT-109 (#02) or UT-110 (#02) VOICE SCRAMBLER UNIT is required.
  - UT-109: Non-rolling type. 32 codes are available.
  - UT-110: Rolling type. Provides higher communication security. 1020 (4 groups × 255) codes are available.
- This transceiver requires version #02 unit, do not install version #01, as they are not compatible.
- UT-109 and UT-110 require some PC board modifications. Please refer '■ Optional UT-109/UT-110 installation'. (p. 17)
- Please contact your Dealer for details.

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# 1 PANEL DESCRIPTION

- [COMP]      *MIC COMPANDER KEY***  
Push to toggle the mic compander function ON or OFF.
- [HOOK]      *HOOK SCAN KEY***  
When the on hook scan function is activated, push this key to stop scanning temporarily. Push this key again to re-start scanning.
- [SET]      *USER SET MODE KEY***  
Changes the contents of the items in the User Set mode.
- Push and hold **[SET]** for 1 sec. to enter set mode, then push **[SET]** momentarily to select the item. Push **[▲]/[▼]** to set the desired level/condition. Push and hold **[SET]** again to exit set mode.
  - User set mode also available via the 'Power ON function'. Please refer p. 12 also.
- [OPT]      *OPT 1/2/3 KEYS***  
Push to control the output signal level from the optional unit connector.

## ■ Turning power ON

- ① Push **[POWER]** to turn the power ON.
  - A power-up alert tone sounds for about 1 sec. and an opening message may appear.
- ② If the transceiver is programmed for a start up passcode, input digit codes as directed by your Dealer.
  - The keys in the table below can be used for password input:
  - The transceiver detects numbers in the same block as identical. Therefore “01234” and “56789” are the same.

KEY	[P0]	[P1]	[P2]	[P3]	[P4]
NUMBER	0 5	1 6	2 7	3 8	4 9

- ③ When the “PASSWORD” indication does not clear after inputting 4 digits, the input code number may be incorrect. Turn power off and start over in this case.

## ■ Channel selection

Several types channel selections are available, methods may differ according to your system set up.

### **NON-BANK TYPE:**

Push **[▲]** or **[▼]** to select the desired operating channel, in sequence; or, push one of the **[MR-CH 1]** to **[MR-CH 4]** to select a channel directly.

### **BANK-TYPE:**

Push **[BANK]**, then push **[▲]** or **[▼]** to select the desired bank channel.

### **AUTOMATIC SCAN TYPE:**

Channel setting is not necessary for this type. When turning the power ON, the transceiver automatically starts scanning. Scanning stops when receiving a call or when taking the microphone off hook.

# ■ Receiving and transmitting

### RECEIVING:

- ① Push [**POWER**] to turn the power ON.
- ② Push [**▲**] or [**▼**] to select a channel.
- ③ When receiving a call, adjust the audio output level to a comfortable listening level.

### TRANSMITTING:

- ① Take the microphone off hook.
  - 5-tone mute may be released (the 'audible' condition is selected and "☐" appears).
  - A priority channel may be selected automatically.
- ② Wait for the channel to become clear.
  - The channel is busy when "☐" appears.
- ③ Push the [**CALL**] key when initiating a call from your side.
  - Coded audio may be heard from the transceiver, then "⏏" appears.
  - This operation may not be necessary depending on your signaling system. Ask your Dealer.
- ④ While pushing and holding [**PTT**], speak into the microphone at your normal voice level.
- ⑤ Release [**PTT**] 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.

### ◇ 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).
- Channel is busy.
- No matched (or matched) CTCSS is received.
- The selected channel is a 'receive only' channel.

#### • 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.

### ◇ Tx code channel selection

If the transceiver has a **[TX CH]** key, display 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, the **[▲]** or **[▼]** keys select the Tx code channel.

#### **USING [TX CH] KEY:**

- ① Push **[TX CH]** — a Tx code channel appears.
- ② Push **[▲]** or **[▼]** to select the desired Tx code channel.
- ③ After selecting, push **[TX CH]** to set.
  - Returns to the stand-by mode.
- ④ Push **[CALL]** to transmit the selected Tx code.

#### **USING [CH UP]/[CH DN] KEYS:**

If the transceiver has a **[CH UP]** or **[CH DN]** key assignment, the programmed TX code channel can be selected directly when pushed.

### ◇ Tx code number edit

If the transceiver has a **[CODE]** or **[TX CH]** key, Tx code contents can be edited within the allowable digits.

#### **TO EDIT A TX CODE:**

- ① Push **[CODE]** (or push and hold **[TX CH]**) to enter the TX code edit mode.
  - The digit to be edited blinks.
- ② Push **[CODE]** (or push **[TX CH]**) to select the desired digit to be edited.
- ③ Push **[▲]** or **[▼]** to select the desired digit.
- ④ Push **[CODE]** (or push **[TX CH]**) to set. The digit to the right will blink automatically.
- ⑤ Repeat ③ and ④ to edit all allowable digits.
- ⑥ After editing, push **[CODE]** (or push **[TX CH]**) to set.
  - Return to the stand-by mode.
- ⑦ Push **[CALL]** to transmit the edited Tx code.

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## 2 OPERATION

### ◇ DTMF transmission

If the transceiver has a **[DTMF]** key, the automatic DTMF transmission function is available. Up to 7 DTMF channels are available.

- ① Push **[DTMF]** — a DTMF code channel appears.
- ② Push **[^]** or **[v]** to select the desired DTMF channel.
- ③ Push and hold **[DTMF]** to transmit the selected DTMF.

### ◇ Scrambler function

UT-109 (#02) or UT-110 (#02) optional voice scrambler unit provides high performance private communication between stations with the same scrambler codes.

- ① Push and hold **[SCRM]** to turn the scrambler function ON.
  - “G” appears.
- ② Push **[SCRM]** to turn the function OFF.
  - “G” disappears.

### ◇ User set mode

User set mode is accessed at power ON and allows you to set seldom-changed settings. In this case you can “customize” transceiver operation to suit your preferences and operating style.

#### *Entering the user set mode:*

① While pushing and holding [**▲**] and [**▼**], push [**POWER**] to enter user set mode ON, allowing you to set seldom-changed settings.

② Push and hold [**P0**] to enter user set mode. Push [**P0**] momentarily to select the item.

Then push [**▲**] and [**▼**] to set the desired level/condition.

Available set mode functions:

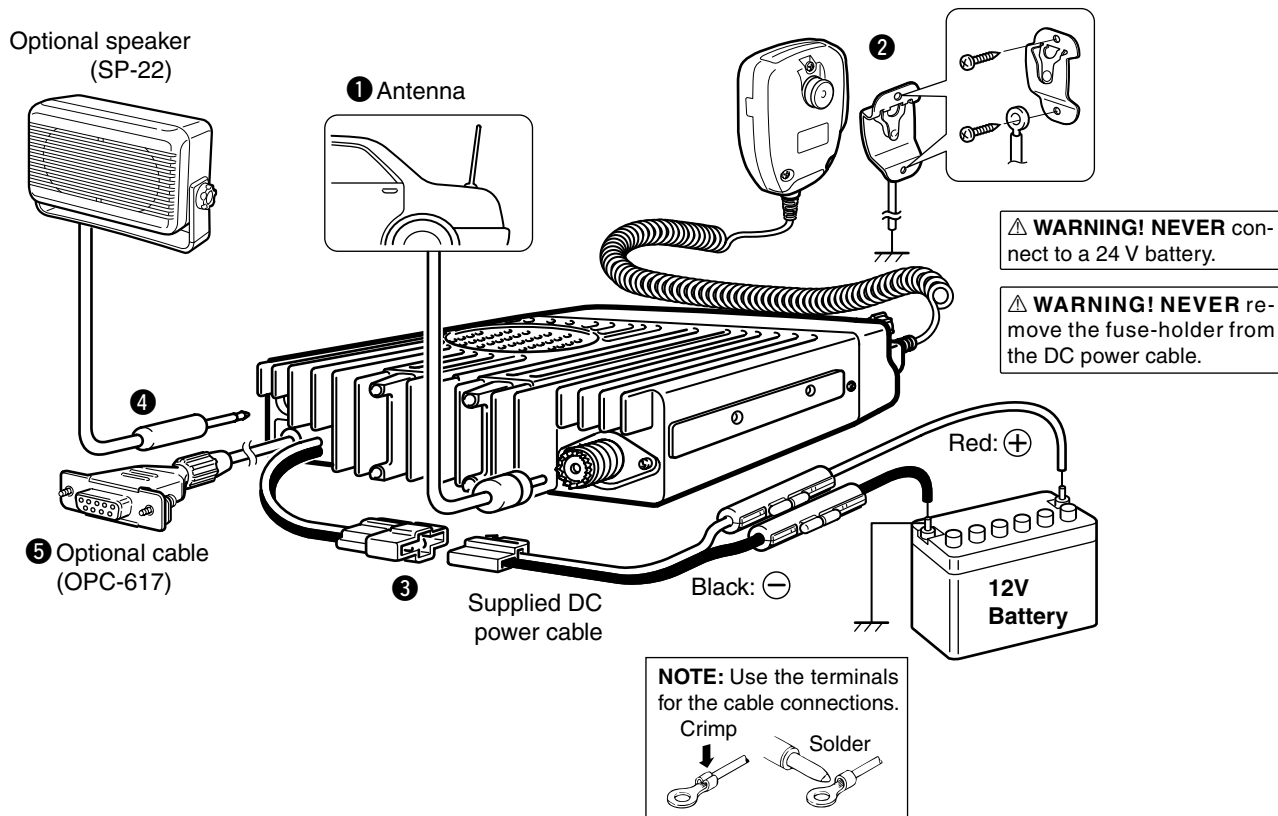
- Backlight : AUTO, DIM, OFF or ON
- Beep : ON or OFF
- Beep Level : 1 to 5 or Link (links to audio output level)
- SQL Level : 0 to 255
- AF Min level : 0 to 255
- Audio Filter : 3000, 3400, 0 or 300
- Mic Gain : 1 to 5

③ Push [**POWER**] (or push and hold [**P0**]) again to exit set mode.

User set mode also available via the programmable key. Please refer p. 7 [**SET**] section.

[**SET**] is allowed for the quick item selection. Set “Enable” for the often used items with the CS-F500 CLONING SOFTWARE.

## ■ Rear panel and connection



### 1 ANTENNA CONNECTOR

Connects to an antenna. Ask your Dealer about antenna selection and placement.

### 2 MICROPHONE HANGER

Connect the supplied microphone hanger to the vehicle's ground for microphone on/off hook functions. (See p. 2)

### 3 DC POWER RECEPTACLE

Connects to a **12 V DC** battery. Pay attention to polarities.

**⚠ WARNING! NEVER** connect to a **24 V** battery. This could damage the transceiver.

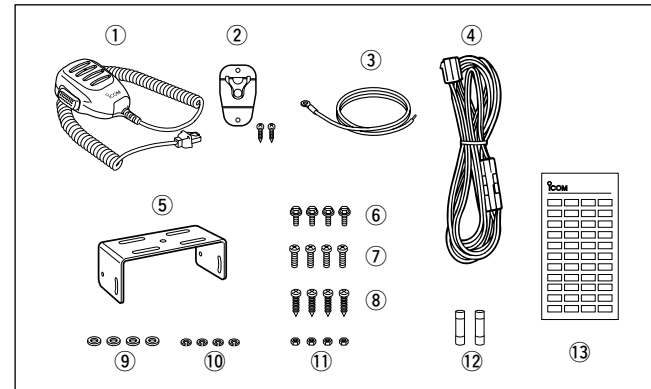
### 4 EXTERNAL SPEAKER JACK

Connect a 4–8 Ω external speaker, if desired.

### 5 OPTIONAL CABLE (OPC-617)

Connect an external modem unit, LCD backlight control, etc.

## ■ Supplied Accessories



① Microphone .....	1	⑧ Self-tapping screws (M5×20) .....	4
② Microphone hanger and screw set .....	1 set	⑨ Flat washers .....	4
③ Microphone hanger cable ...	1	⑩ Spring washers .....	4
④ DC power cable .....	1	⑪ Nuts .....	4
IC-F510/F610: OPC-345		⑫ Fuses .....	2
⑤ Mounting bracket .....	1	IC-F510/F610: 15 A	
⑥ Bracket bolts .....	4	⑬ Function name stickers* (1705 LCD SEAL) .....	1
⑦ Mounting screws (M5×12) ...	4		

#### \*Function name stickers

There are no names on the programmable function keys since the needed functions can be assigned to these keys.

Attach the supplied function name stickers above the appropriate keys.

## 3 CONNECTION AND MAINTENANCE

### ■ Mounting the transceiver

The front panel can be inverted for correct viewing while leaving the built-in speaker facing away from the mounting surface.

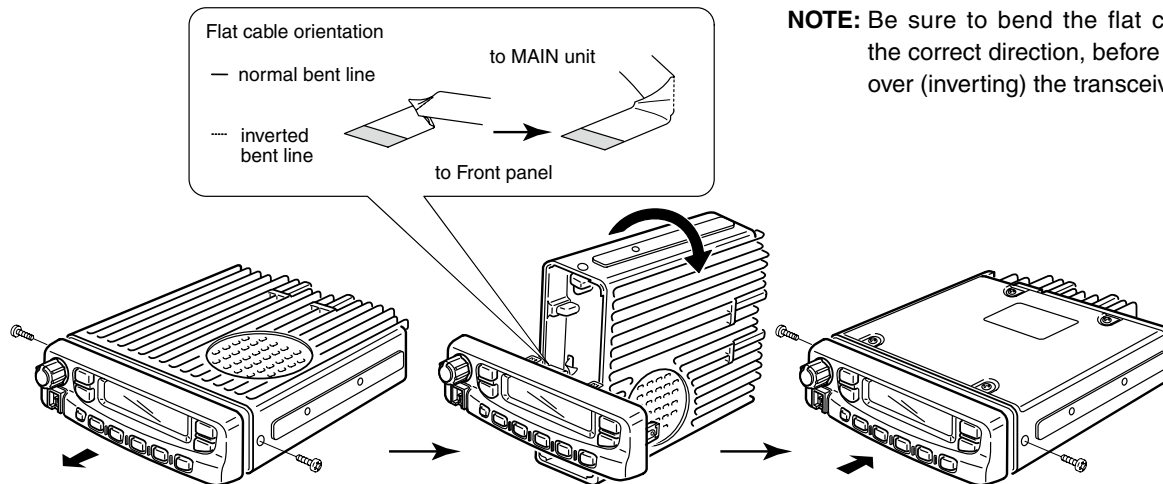
#### ◇ Inverting the Front panel

- ① Unscrew the 2-side screws.
- ② Detach the Front panel forward from the transceiver.
- ③ Bent the flat cable between Front panel and main unit as shown in the following diagram.

- ④ Invert the transceiver 180 degrees clockwise as below.
- ⑤ Re-attach the Front panel to the transceiver.
- ⑥ Tighten the 2 screws.

#### CAUTION:

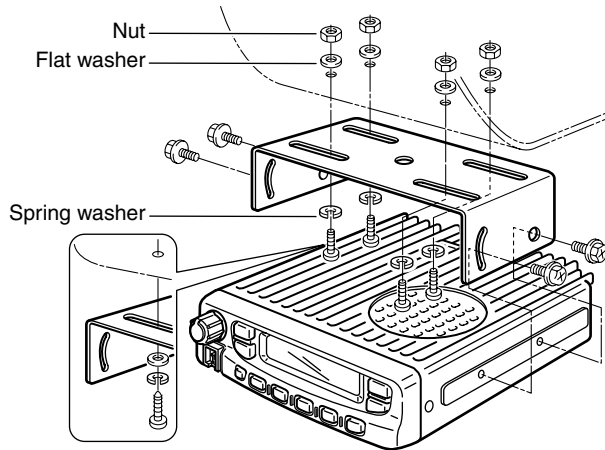
- **NEVER** rotate the transceiver more than 180 degrees.
- **DO NOT** bent the flat cable too much. Damage may occur.



### ◇ Mounting the transceiver

The universal mounting bracket supplied with your transceiver allows overhead mounting.

- Mount the transceiver securely with the 4 supplied screws to a thick surface which can support more than 1.5 kg.

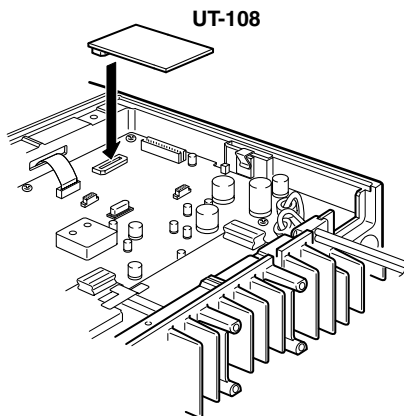


### 3 CONNECTION AND MAINTENANCE

#### ■ Optional UT-108 installation

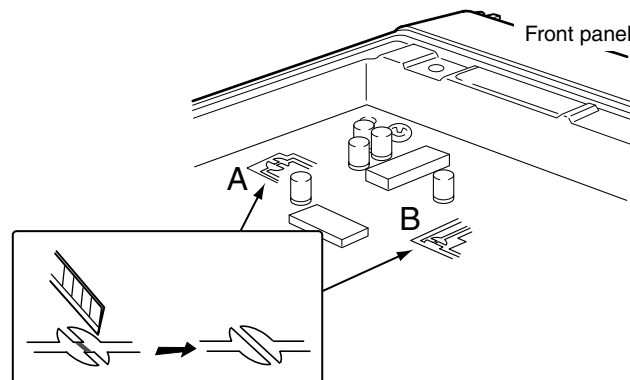
The optional UT-108 unit install as follows:

- ① Turn power OFF, then disconnect the DC power cable.
- ② Unscrew the 4 screws, then remove the bottom cover.
- ③ Install the unit as shown in the diagram below.
- ④ Replace the bottom cover and screws, then the DC power cable.

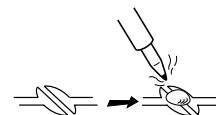


#### ■ Optional UT-109 or UT-110 installation

- ① Turn power OFF, then disconnect the DC power cable.
- ② Unscrew the 4 screws, then remove the bottom cover.
- ③ Cut the print pattern on the PCB at the TX mic circuit (A) and RX AF circuit (B) as shown in the following figure.
- ④ Install the scrambler unit as shown in the left.
- ⑤ Return the bottom cover and screws to the original position.

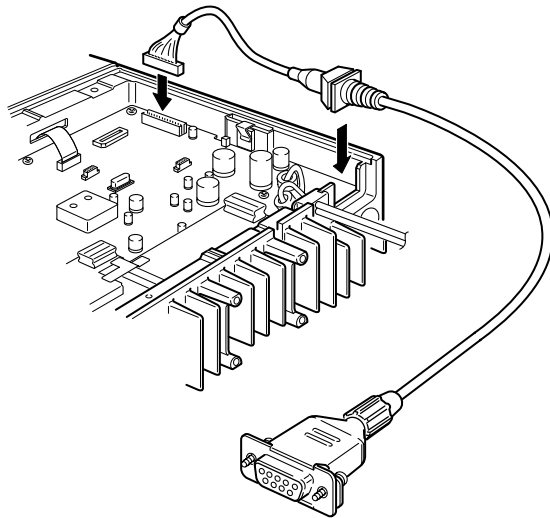


**NOTE:** Be sure to re-solder above disconnected points, otherwise no TX modulation or AF output is available when you remove the scrambler units.

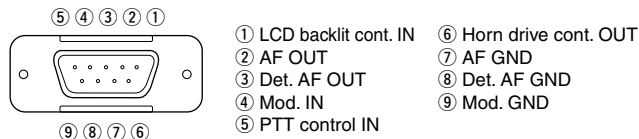


## ■ Optional OPC-617 installation

Install the OPC-617 as shown below.



### OPTIONAL CABLE PIN ASSIGNMENT



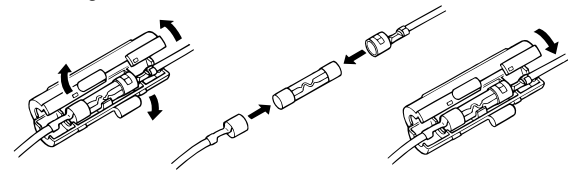
## ■ Antenna

A key element in the performance of any communication system is an antenna. Ask your Dealer about antennas and the best places to mount them.

## ■ Fuse replacement

Two fuses are installed in the supplied DC power cable. If a fuse blows or the transceiver stops functioning, track down the source of the problem, if possible, and replace the damaged fuse with a new rated one.

□ Fuse rating IC-F510/F610: 15 A



## ■ Cleaning

If the transceiver becomes dusty or dirty, wipe it clean with a dry, soft cloth.



**AVOID** the use of solvents such as benzene or alcohol, as they may damage transceiver surfaces.

**SP-22 EXTERNAL SPEAKER**

Compact and easy-to-install.

Input impedance : 4  $\Omega$

Max. input power : 5 W

**HM-152/HM-152T/HM-148G/HM-148T** HAND MICROPHONES

- HM-152 : Hand microphone
  - HM-152T : DTMF microphone
  - HM-148G : Self ground heavy duty microphone
  - HM-148T : Self ground heavy duty DTMF microphone
- The 10-keypad of this microphone can be used for the DTMF code transmission only.

**SM-25**

Desktop microphone.

**UT-108 DTMF DECODER UNIT**

Provides pager and code squelch capabilities.

**UT-109 (#02)/UT-110 (#02) VOICE SCRAMBLER UNIT**

- UT-109 : Non-rolling type (max. 32 codes)
- UT-110 : Rolling type (max. 1020 codes)

**OPC-617 ACC CABLE**

Allows you to connect to an external terminal.

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.

Some options may not be available in some countries. Please ask your dealer for details.



# DECLARATION OF CONFORMITY

We Icom Inc. 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: **UHF TRANSCEIVER**

Type-designation: **IC-F610**

440-490 MHz 12.5 KHz/ 25 KHz  
440-490 MHz 12.5 KHz/ 20 KHz  
400-430 MHz 12.5 KHz/ 25 KHz

## Version (where applicable):

This compliance is based on conformity with the following harmonised standards, specifications or documents:

- i) EN 300 279 (February 1999)
- ii) EN 60950 August 1992, A11 1997
- iii) EN 300 086 (March 2001)
- iv) EN 300 219 (March 2001)
- v) EN 300 113 (March 2001)

**CE0168** ⓘ

Düsseldorf 10 Apr. 2002  
Place and date of issue

Icom (Europe) GmbH  
Himmelgeisterstraße 100  
D-40225 Düsseldorf

Authorized representative name

T. Maebayashi  
General Manager

  
Signature  
Icom Inc.



# DECLARATION OF CONFORMITY

We Icom Inc. 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: **VHF TRANSCEIVER**

Type-designation: **IC-F510**

136-174 MHz 12.5 KHz/ 25 KHz  
136-174 MHz 12.5 KHz/ 20 KHz

## Version (where applicable):

This compliance is based on conformity with the following harmonised standards, specifications or documents:

- i) EN 301 489-1 v1.2.1 (2000-8)
- ii) EN 301 489-5 v1.2.1 (2000-8)
- iii) EN 60950 August 1992, A11 1997
- iv) EN 300 086-2 v1.1.1 (March 2001)
- v) EN 300 219 (March 2001)
- vi) EN 300 113-2 v1.1.1 (March 2001)

**CE0168** ⓘ

Düsseldorf 15 Feb. 2002  
Place and date of issue

Icom (Europe) GmbH  
Himmelgeisterstraße 100  
D-40225 Düsseldorf

Authorized representative name

T. Maebayashi  
General Manager

  
Signature  
Icom Inc.

**CE** Versions of the IC-F510/IC-F610 which display the “CE” symbol on the serial number label, comply with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/EC.



This warning symbol indicates that this equipment operates in non-harmonised frequency bands and/or may be subject to licensing conditions in the country of use. Be sure to check that you have the correct version of this radio or the correct programming of this radio, to comply with national licensing requirement.

**Count on us!**

**< Intended Country of Use >**

☐ GER ☐ FRA ☐ ESP ☐ SWE  
☐ AUT ☐ NED ☐ POR ☐ DEN  
☐ GBR ☐ BEL ☐ ITA ☐ FIN  
☐ IRL ☐ LUX ☐ GRE ☐ SUI