ICOM

INSTRUCTIONS ②

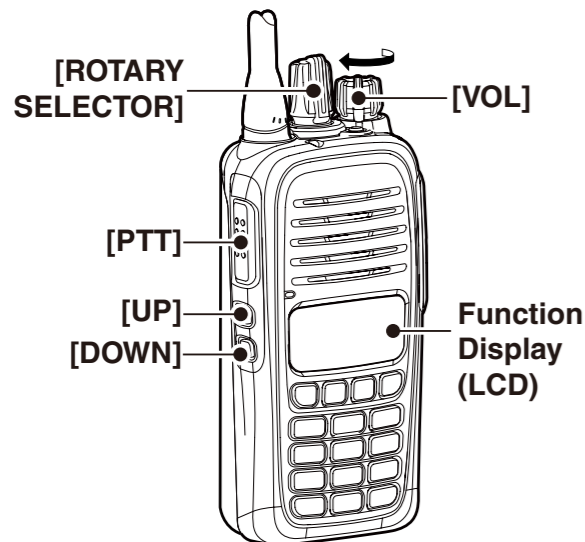VHF TRANSCEIVER

IC-V88

UHF TRANSCEIVER

IC-U88

> Thank you for choosing the IC-V88 VHF TRANSCEIVER or IC-U88 UHF TRANSCEIVER.
> **READ ALL INSTRUCTIONS** carefully and completely before using the transceiver.

BASIC OPERATION

◇ Turning power ON

Before using the transceiver for the first time, the battery must be fully charged for optimum life and operation. See **BATTERY CHARGING** described in INSTRUCTIONS ①.

Rotate **[VOL]** to turn ON the power.

[ROTARY SELECTOR]
[VOL]
[PTT]
[UP]
[DOWN]
Function Display (LCD)

◇ Receiving and Transmitting

CAUTION:
Attach an antenna before transmitting.
Transmitting without an antenna may damage the transceiver.

Receiving:
① Rotate **[ROTARY SELECTOR]** to select a channel.
② When receiving a call, rotate **[VOL]** to adjust the audio output level to a comfortable listening level.

Transmitting:
Wait until the channel is clear to avoid interference.
① While holding down **[PTT]**, speak at a normal voice level.
② Release **[PTT]** to receive.

IMPORTANT:
To maximize the readability of your signal:
1. After pushing **[PTT]**, pause briefly before you start speaking.
2. Hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth, then speak at a normal voice level.

ABOUT THE FRONT PANEL PROGRAMMING

The following settings can be changed in the Front Panel Programming mode without a PC. This is a convenient function to immediately change some settings when you operate the transceiver in the field.

• RX and TX frequencies
• RX and TX CTCSS tone frequencies
• RX and TX DTCS codes
• Channel name

NOTE:
• While you are in the Front Panel Programming mode, you cannot receive or transmit.
• To exit the Front Panel Programming mode, turn OFF the transceiver, and then turn it ON again.

See the back page for details.

OPTIONS

◇ BATTERY PACKS

• **BP-278/BP-279** BATTERY PACK

Battery pack	Voltage	Capacity	Battery life*
BP-278	7.2 V	1130 mAh (minimum) 1190 mAh (typical)	10 hours
BP-279		1485 mAh (minimum) 1570 mAh (typical)	14 hours

* When the power save function is turned ON, and the operating periods are calculated under the following conditions:
    TX:RX:standby = 5:5:90

◇ CHARGERS

• **BC-213** DESKTOP CHARGER + **BC-123S** AC ADAPTER
To rapid charge a battery pack.

• **BC-214** MULTI CHARGER + **BC-157S** AC ADAPTER
To rapid simultaneously charge up to 6 battery packs.

◇ DC CABLES

• **CP-23L** CIGARETTE LIGHTER CABLE
Use when charging the battery pack from a 12 V cigarette lighter socket. (Use with the BC-213)

• **OPC-656** DC POWER CABLE
Use with a 13.8 V power source instead of a power adapter. (Use with the BC-214)

◇ ANTENNAS

• **FA-SC25V/FA-SC55V/ FA-SC62V/FA-SC63V** VHF ANTENNAS
FA-SC25V: 136–150 MHz
FA-SC55V: 150–174 MHz
FA-SC62V: 150–160 MHz
FA-SC63V: 155–165 MHz

• **FA-SC56VS/FA-SC57VS** VHF STUBBY ANTENNAS
FA-SC56VS: 150–162 MHz
FA-SC57VS: 160–174 MHz

• **FA-SC61VC** VHF CUT ANTENNA
FA-SC61VC: 136–174 MHz

• **FA-SC01U/FA-SC02U** UHF ANTENNAS
FA-SC01U: 350–400 MHz
FA-SC02U: 330–380 MHz

• **FA-SC61UC** UHF CUT ANTENNA
FA-SC61UC: 380–520 MHz

◇ OTHERS

• **MB-130** MOBILE BRACKET
Mounts the BC-213 DESKTOP CHARGER in a variety of places in your vehicle.

• **MB-133** BELT CLIP

• **HM-158LA/HM-159LA/HM-168LWP**
SPEAKER MICROPHONE
Combination speaker-microphone that provides convenient operation while the transceiver is hanging on your belt.

• **HM-153LA/HM-166LA** EARPHONE-MICROPHONE
Ideal for hands-free operation. Clip the HM-153LA or HM-166LA (with integrated PTT SWITCH) to your lapel or breast pocket.

• **HS-94/HS-95/HS-97** HEADSET
+ **VS-4LA** PTT SWITCH CABLE
HS-94:   Ear-hook type
HS-95:   Neck-arm type
HS-97:   Throat microphone
VS-4LA: To connect to headsets

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

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.

◊ Entering the Front Panel Programming mode (Step 1)

① Rotate **[VOL]** to turn OFF the transceiver.
② While pushing **[P0]** and **[UP]** at the same time, turn ON the transceiver.
• "SET MODE" is displayed.

```
SETMODE
```

③ Push **[P0]** to enter the Front Panel Programming mode.
• A zone number and a channel number are displayed.

```
1 CH001
```

To Exit the Front Panel Programming mode and return to normal operation:

➥ Turn OFF the transceiver, and then turn it ON again.

◊ Selecting a channel to program (Step 2)

① Push **[P3]** to enter the Channel Selection mode.
• The channel number blinks.
② Push **[P1]** to select a zone.
③ Push **[UP]** or **[DOWN]** to select a channel you want to program.
④ Push **[P3]** again to set the channel.
• The cursor stops blinking.

◊ Editing the RX and TX frequencies (Step 3)

① Push **[UP]** to first select the RX frequency, or push again to select the TX frequency.
• The LED indicator lights green when you select the RX frequency, and lights red when you select the TX frequency.
② Push **[P3]** to enter the Frequency Edit mode.
• The cursor blinks at the first digit.
③ Enter a desired frequency by pushing the keys on the 10-key pad.
④ After you finish entering all digits, the frequency will automatically be saved.
• The cursor stops blinking.

◊ Selecting the RX and TX tones (Step 4)

① Push **[UP]** to first select the RX tones or push again to select the TX tones.
• The LED indicator lights green when you select the RX tones, and lights red when you select the TX tones.
② Push **[P2]** to select the CTCSS OFF, CTCSS tone frequency, or DTCS code screen.
③ Push **[P3]** to enter the CTCSS Tone Frequency or DTCS Code Selection mode.
• The frequency or the first digit code blinks.

Setting the CTCSS tone frequency:
④ Push **[UP]** or **[DOWN]** to select the frequency.
⑤ Push **[P3]** again to set the frequency.
• The frequency stops blinking.

Setting the DTCS code:
④ Push **[UP]** or **[DOWN]** to select the code.
⑤ Push **[P3]** to move the cursor to the next digit.

⑥ Repeat steps ④ and ⑤ until you finish selecting the code.
⑦ Push **[P1]** to toggle the DTCS code's polarity while the cursor is blinking.
• You can select Normal or Inverse polarity.

Normal   **Inverse**

```
TD   023N  ⟳  TD   023I
```

⑧ Push **[P3]** again to save the code.
• The cursor stops blinking.

◊ Editing the channel name (Step 5)

You can display the name instead of the channel number.

① Push **[UP]** to display the channel name.
• If no channel name is programmed, nothing is displayed.
② Push **[P3]** to enter the Channel Name Edit mode.
• The cursor blinks at the first digit.
③ Enter a character by pushing **[UP]** or **[DOWN],** or the keys on the 10-key pad.

When using the 10-key pad:
➥ Repeatedly pushing **[2]**, for example, first selects the number "2." Continuing to push it selects capital letters "A," then "B," then "C," and then selects lower case letters "a," then "b," then "c."
• To enter a space, push **[1]** twice. The cursor blinks, and then push **[P3]** to move to the next digit.
• **[0]** and **[1]** also select other symbols.
• **[∗]** and **[#]** are used to move the cursor to the left or to the right.
④ Push **[P3]** to move the cursor to the next digit.

⑤ Repeat steps ③ and ④ until you finish entering the name.
⑥ Push **[P3]** again to save the channel name.
• The cursor stops blinking.

◊ Other settings (Step 6)

To deactivate or activate the channel:
➥ Select a desired zone and the channel to deactivate and then push **[P2]**.
• "∗" is displayed.
• The channel cannot be used until you re-activate it.
➥ To activate the channel, push **[P2]**.

To toggle between Wide and Narrow channel pass-band width:
➥ Select a RX frequency, and then push **[P1]**. (You cannot toggle if the cursor is blinking.)
• "WIDE" or "NARROW" is briefly displayed.

To clear the RX frequency memory:
➥ Select a RX frequency, and then push **[P2]**. (You cannot clear the RX frequency memory if the cursor is blinking.)
• The channel will be cleared and you have to set the RX frequency again to use the channel.

To Inhibit or allow transmission:
➥ Select a TX frequency, and then push **[P2]**. (You cannot inhibit transmission if the cursor is blinking.)
• "TX INH" is displayed.
➥ To allow transmission, push **[P2]**.

◊ Programming outline

Entering the Front Panel Programming mode (Step 1)

NOTE:
∗1: Once you clear the RX frequency memory, you have to set the RX frequency again to use the channel.
∗2: Settable in the same way for both RX and TX.
∗3: The CTCSS OFF, a CTCSS tone frequency or a DTCS code screen is displayed.