

## OPTIONS

### ◇ BATTERY PACKS

- **BP-283<sup>\*1</sup>** Li-ion BATTERY PACK  
Voltage: 7.2 V  
Capacity: 1910 mAh (minimum), 2010 mAh (typical)  
Battery life: Approximately 10.5 hours
  - **BP-284<sup>\*1</sup>** Li-ion BATTERY PACK  
Voltage: 7.2 V  
Capacity: 3070 mAh (minimum), 3210 mAh (typical)  
Battery life: Approximately 16.5 hours
- <sup>\*1</sup> When the power save function is set to "Short," and the operating periods are calculated under the following conditions:  
TX : RX : standby = 5 : 5 : 90

### ◇ CHARGERS

- **BC-219** DESKTOP CHARGER + **BC-123S** AC ADAPTER  
For rapidly charging of battery packs.  
Charging time: Approximately 2.8 hours for the BP-283  
① A power adapter may be supplied, depending on the charger's version.
- **BC-214** MULTI-CHARGER  
+ **BC-157S** AC ADAPTER, **OPC-656** DC POWER CABLE  
For rapidly charging of up to 6 battery packs simultaneously.  
Charging time: Approximately 2.8 hours for the BP-283  
① The AD-130 CHARGER ADAPTER may be needed, depending on the charger's version.  
② The BC-157S AC ADAPTER or OPC-656 DC POWER CABLE must be purchased separately.

### ◇ DC CABLES

- **CP-23L** CIGARETTE LIGHTER CABLE  
Used when charging battery packs through a 12 V cigarette lighter socket. For use with the BC-219.
- **OPC-515L, OPC-656** DC POWER CABLES  
Used when charging battery packs using a 13.8 V DC power source instead of the power adapter.  
OPC-515L: For the BC-219  
OPC-656: For the BC-214

### ◇ BELT CLIPS and BELT HANGERS

- **MB-133** BELT CLIP
- **MB-136** BELT CLIP  
Rotating type.
- **MB-96F, MB-96FL, MB-96N** BELT HANGERS

### ◇ ANTENNAS

- **FA-S81VS, FA-S82VS, FA-S83VS, FA-S81US, FA-S82US** STUBBY ANTENNAS  
Shorter VHF or UHF antennas.  
FA-S81VS: 136 ~ 150 MHz    FA-S82VS: 150 ~ 162 MHz  
FA-S83VS: 160 ~ 174 MHz    FA-S81US: 400 ~ 450 MHz  
FA-S82US: 450 ~ 490 MHz
- **FA-S81V, FA-S82V, FA-S83V, FA-S81U, FA-S82U, FA-S83U** FLEXIBLE ANTENNAS  
VHF or UHF antennas.  
FA-S81V: 136 ~ 150 MHz    FA-S82V: 148 ~ 160 MHz  
FA-S83V: 160 ~ 174 MHz    FA-S81U: 380 ~ 430 MHz  
FA-S82U: 430 ~ 480 MHz    FA-S83U: 470 ~ 520 MHz
- **FA-S67VC, FA-S76UC** CUT ANTENNAS  
FA-S67VC: 136 ~ 174 MHz    FA-S76UC: 380 ~ 520 MHz

### ◇ OTHERS

- **AD-118** ACC ADAPTER  
To connect an accessory. See the AD-118 instruction sheet for details of recommended accessories.  
**CAUTION:** The AD-118 does not have waterproof protection. When it is connected, **NEVER** expose the adaptor and the transceiver to rain, snow or any liquids.
- **LC-184** CARRYING CASE  
For the Simple key types and Ten-key types.
- **LC-186** CARRYING CASE  
For the Non-display types.
- **VS-4MC<sup>\*2</sup>** PTT SWITCH CABLE  
+ **HS-94, HS-95, HS-97** HEADSET  
VS-4MC: Used to connect a headset to a transceiver.  
HS-94: Ear-hook type  
HS-95: Neck-arm type  
HS-97: Throat microphone  
<sup>\*2</sup> Non-waterproof.
- **HM-222** SPEAKER MICROPHONE  
With an Emergency key.  
The HM-222 meets IP68 requirements for waterproof protection.
- **VS-3** Bluetooth<sup>®</sup> HEADSET  
The Bluetooth<sup>®</sup> headset with a [PTT] switch.
- **About the third party Bluetooth<sup>®</sup> headsets:**  
Icom has checked the PTT operation with some 3M Peltor headsets such as the WS Headset XP, WS ProTac XP and WS Alert XP. (Compatibility not guaranteed.)

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

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# ICOM INSTRUCTIONS

## VHF DIGITAL TRANSCEIVERS

### IC-F3400D series IC-F3400DP series

## UHF DIGITAL TRANSCEIVERS

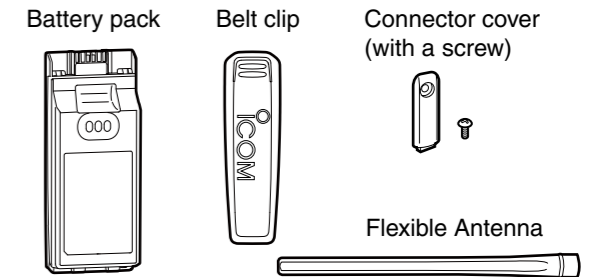
### IC-F4400D series IC-F4400DP series

## IMPORTANT

This instruction sheet includes some functions that are usable only when they are preset by your dealer. The transceiver may have other functions and operations that are not described in this instruction sheet. Ask your dealer for preset function details.

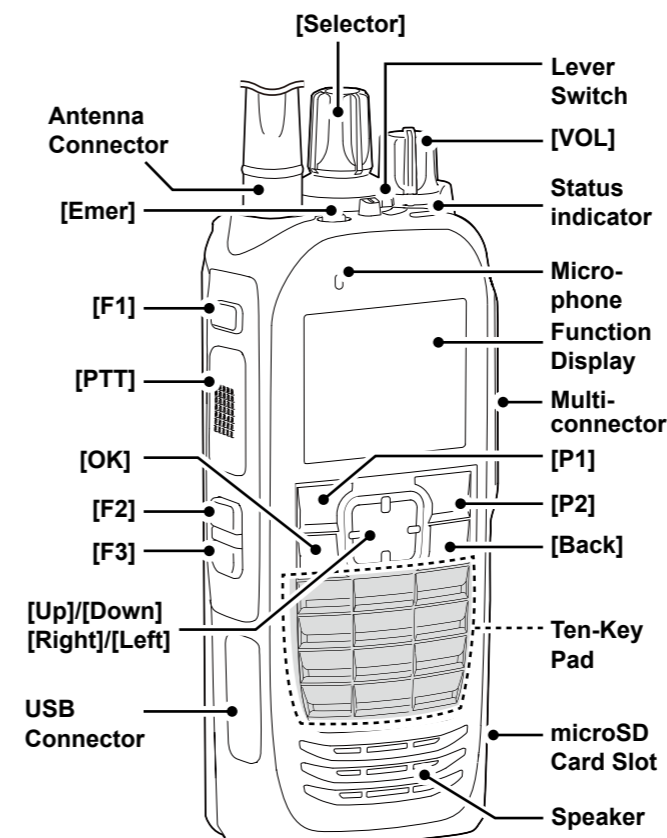
Thank you for choosing this Icom product.  
**READ ALL INSTRUCTIONS** carefully and completely before using this product.

## SUPPLIED ACCESSORIES



**NOTE:** Some accessories are not supplied, or the shape is different, depending on the transceiver version.

## PANEL DESCRIPTION



The illustration is of the Ten-key type transceiver.

### ◇ About the transceiver types

There are 3 types of transceivers.  
**IC-F3400D, IC-F4400D, IC-F3400DP, IC-F4400DP:**  
Non-display types  
**IC-F3400DS, IC-F4400DS, IC-F3400DPS, IC-F4400DPS:**  
Simple key types  
**IC-F3400DT, IC-F4400DT, IC-F3400DPT, IC-F4400DPT:**  
Ten-key types

### ◇ About the Status indicator

- Lights white, then blinks red, yellow, and green when turning ON the transceiver.
- Lights red while transmitting.
- Lights green while receiving a signal, or when the squelch is open.
- Blinks magenta when the battery is exhausted.

### ◇ About the Multi-connector

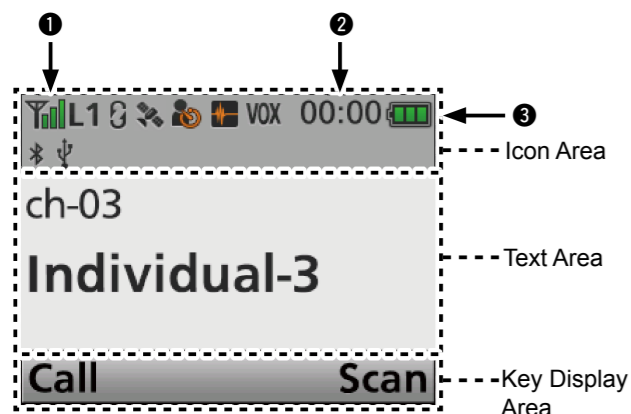
Connects to an optional speaker microphone or headset.

**CAUTION: DO NOT** use the transceiver without the connector cover or the optional equipment attached. The transceiver meets IP68 requirements for dust-tight and waterproof protection only when the connector cover or the optional HM-222 is attached.

### ◇ About the Software key functions

**NOTE:** Your dealers can assign the Software key functions to the keys, keypads, and the Lever switch.

## FUNCTION DISPLAY



**NOTE:** The screen capture is an example. The displayed position of each icon may differ, depending on the function being used.

### ◇ Icon Area

#### Indicators

##### ① SIGNAL STRENGTH INDICATOR

Displays the relative receive signal strength level.

##### ② CLOCK

Displays the current time.

① "AM" or "PM" is displayed beside the time display when 12 hour display format is selected.

##### ③ BATTERY INDICATOR

Displayed or blinks to indicate the battery status.

Indication				
Battery status	Full	Mid	Charging required	Battery exhausted

blinks when the battery is exhausted.

#### Icons

The following icons are displayed in the Icon Area.

#### POWER ICON

- "L1" is displayed when the output power is set to Low.
- "L2" is displayed when the output power is set to Mid.
- "H" is displayed when the output power is set to High.

#### AUDIBLE ICON

Displayed when the channel is in the 'audible' (unmute) mode.

#### MESSAGE ICON

- Blinks after Messages (Message or Status Message) have been received.
- Stops blinking when the screen is changed, or any key is pushed, but is displayed if unread messages are still in the Message memory.
- Disappears when all messages in the Message memory have been read.

#### BELL ICON

Displayed when a matching signal is received, depending on the presetting.

#### SCAN ICON

- Displayed when a scan is paused.
- Blinks while scanning.

#### SCAN TARGET CHANNEL ICON

Displayed when the channel is selected as a scan target channel.

#### SCRAMBLER ICON

**In the Analog mode:**

- Displayed when the Voice Scrambler function is ON.

**In the Digital mode:**

- Displayed when the Voice Encryption function is ON.
- Blinks when decoding an encrypted signal.

#### GPS ICON

- Displayed when valid position data is received.
- Blinks when searching for satellites or calculating position data.

#### RECORD ICON

- Displayed when the Record function is ON.
- Blinks while recording audio.

① is displayed when there is no microSD card's free space and cannot record audio.

#### TALK AROUND ICON

Displayed when the Talk Around function is ON.

#### PHONE ICON

- Displayed when the transceiver is connected to a telephone network on the selected channel.
- Blinks while receiving a phone call.

#### SITE LOCK ICON

Displayed when the Site Lock function is ON.

#### LONE WORKER ICON

Displayed when the Lone Worker function is ON.

#### MOTION SENSOR ICON

Displayed when the Motion Sensor function is ON.

#### NOISE CANCEL ICON

Displayed when the Noise Cancel function is ON.

#### SURVEILLANCE ICON

Displayed when the Surveillance function is ON.

#### VIBRATION ICON

Displayed when the Vibration function is ON.

#### VOX ICON

Displayed when the VOX function is ON.

#### Bluetooth® ICON

- Displayed when Bluetooth® is activated.
- Lights Blue when a Bluetooth® device is connected.
- Does not light when no Bluetooth® device is connected.

#### microSD ICON

Displayed when the microSD card is inserted into the card slot.

① is displayed when the microSD card has not been formatted.

#### USB ICON

Displayed when a USB device is connected.

### ◇ Text Area

Displays the selected Zone number, Channel number, and Channel name, if set.

### ◇ Key Display Area

Displays the names of the function assigned to [P1] and [P2].

① Ask your dealer about the assigned Software key functions.

## BASIC OPERATION

### ◇ Turning ON the transceiver

**NOTE:** Before using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. See the BATTERY CHARGING section of this sheet.

Rotate [VOL] to turn ON the transceiver.

### ◇ Receiving and Transmitting

#### Receiving:

1. Select a channel.
  - Rotate [Selector].
  - Push [Up] or [Down].
2. When receiving a call, rotate [VOL] to adjust the audio output level to a comfortable listening level.

#### Transmitting:

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

1. Wait until the channel is clear to avoid interference.
2. While holding down [PTT], speak at your normal voice level.
3. 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 your normal voice level.

## BATTERY CHARGING

#### NOTE:

- Before detaching or attaching a battery pack, **BE SURE** to turn OFF the transceiver by rotating [VOL] fully counter clockwise, until it makes a "click" sound. Otherwise, a transceiver malfunction could occur.
- The internal clock will be reset to 00:00 if an exhausted battery is left in the transceiver, or the battery pack is detached, for long periods of time.

### ◇ Rapid charging with the BC-219

You can rapidly charge the Li-ion battery pack with the BC-219.

#### Charging time:

Approximately 2.8 hours for the BP-283

#### Additionally needed item (purchase separately):

- A power adapter (may be supplied with the charger, depending on the charger version) or the OPC-515L/CP-23L DC POWER CABLES.

**CAUTION: NEVER** reverse the polarity when connecting the OPC-515L to a power source. This will ruin the battery charger.

White line: ⊕, Black line: ⊖

### ◇ Rapid charging with the BC-214

You can rapidly charge up to 6 battery packs with the optional BC-214.

#### Charging time:

Approximately 2.8 hours for the BP-283

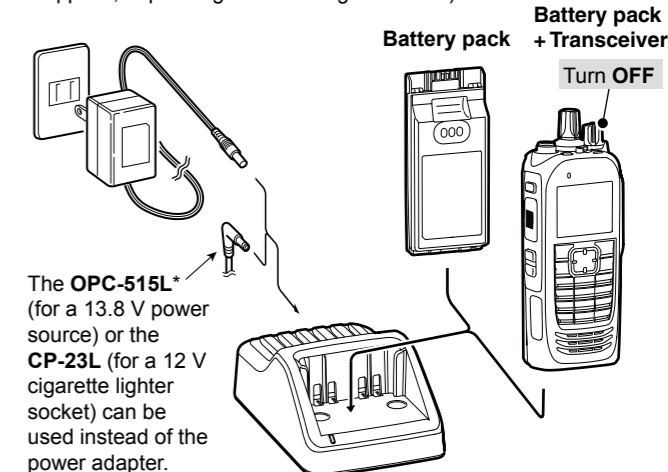
#### Additionally needed items (purchase separately):

- The BC-157S AC ADAPTER or the OPC-656 DC POWER CABLE
- The AD-130 CHARGER ADAPTER (may be supplied with the charger, depending on the charger version)

**CAUTION: NEVER** reverse the polarity when connecting the OPC-656 to a power source. This will ruin the battery charger.

Red line: ⊕, Black line: ⊖

#### Power adapter (A different type, or no power adapter is supplied, depending on the charger version.)



The OPC-515L\* (for a 13.8 V power source) or the CP-23L (for a 12 V cigarette lighter socket) can be used instead of the power adapter.

