

## FOREWORD

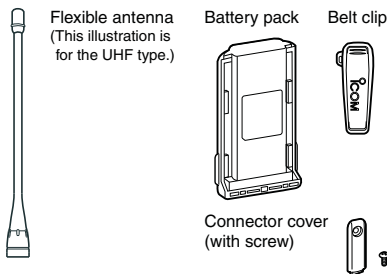
This instruction sheet includes some functions which are usable only when they are preset by your dealer. Ask your dealer for details.

See the operating instructions for details of other functions, and IDAS™ NXDN™ system operations. Ask your dealer for details.

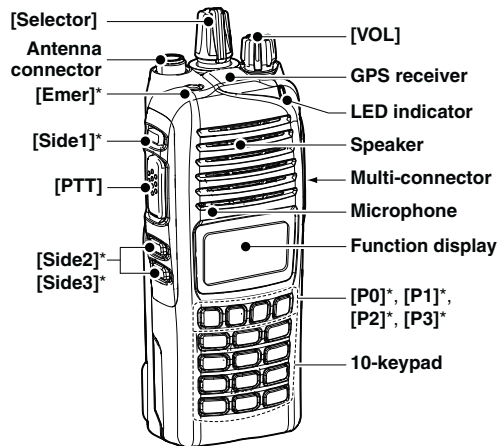
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Thank you for choosing the IC-F3360DT/IC-F3360DS VHF DIGITAL TRANSCEIVERS or IC-F4360DT/IC-F4360DS UHF DIGITAL TRANSCEIVERS.  
**READ ALL INSTRUCTIONS** carefully and completely before using your transceiver.

## SUPPLIED ACCESSORIES



## PANEL DESCRIPTION



The illustration is of the 10-key type transceivers.

\* Dealer assignable

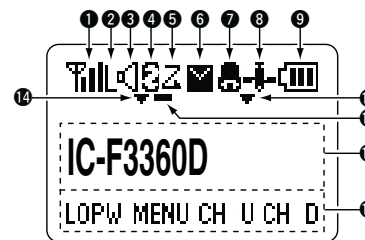
### ◇ About the LED indicator

- Lights red while transmitting.
- Lights green while receiving a signal, or when the squelch is open.
- Blinks red when the battery is exhausted.

### ◇ About the Multi-connector

- CAUTION: Attach the connector cover when an optional accessory is not used.

## FUNCTION DISPLAY



### 1 SIGNAL STRENGTH INDICATOR

Displays the relative receive signal strength.

### 2 LOW POWER ICON

Appears when low output power is selected.

- When the battery charge decreases to a specified level, low power is automatically selected.

### 3 AUDIBLE ICON

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

- Appears when a matched signal is received.

### 4 SCRAMBLER ICON

Appears when the Voice Scrambler function is ON.

### 5 SCAN ICON

Appears while scanning.

### 6 MESSAGE ICON

Appears when a received message (Short Data Message or Status Message) is stored in the stack memory.

- Blinks when an unread message is in the stack memory.

### 7 BELL ICON

Appears when a matched signal is received, depending on the presetting.

### 8 GPS ICON

Appears when position data is received.

### 9 BATTERY ICON

Appears or blinks when the battery charge decreases to a specified level.

Indication				
Battery level	Full	Mid	Charging required	Exhausted Battery

blinks when the battery is over charged.

blinks when the battery is exhausted.

- This icon may not be displayed, depending on the presetting.

### 10 SCAN TARGET CHANNEL ICON

Appears when the scan target channel is selected.

### 11 VOX ICON

Appears when the VOX function is ON.

### 12 ALPHANUMERIC READOUT

Displays the operating channel number, channel name, Menu contents, DTMF code, and so on.

- The display mode automatically switches between one line and two lines.

### 13 KEY ICONS

Displays the assigned function of the [P0], [P1], [P2] and [P3] front panel keys.

### 14 SCAN TARGET ZONE ICON

Appears when the scan target zone is selected.

## BASIC OPERATION

### ◇ Turning power ON

Before using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. See the back page of this sheet.

- Rotate [VOL] to turn ON the power.

### ◇ Receiving and Transmitting

Receiving:

- Select a channel.
  - Rotate [Selector].
  - Push [CH U] or [CH D].
  - Push one of the direct channel select keys, [DR 1] to [DR 5].
  - Push the ([1] to [9] or [0]) digit keys to enter the channel number when the Channel Entry function is assigned to the keypad, or after pushing [CHEN].
- When receiving a call, rotate [VOL] to adjust the audio output level to a comfortable listening level.

For your reference:

- [CHEN]: Channel Entry
- [CH U]: CH/GID Up [CH D]: CH/GID Down
- [DR 1]: Direct CH/GID 1 [DR 5]: Direct CH/GID 5
- See the operating instructions for details.

Transmitting:

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

Wait until the channel is clear to avoid interference.

- While holding down [PTT], speak at a normal voice level.
- Release [PTT] to receive.

IMPORTANT:

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

## BATTERY CHARGING

### ◇ Charging with the BC-160/BC-171

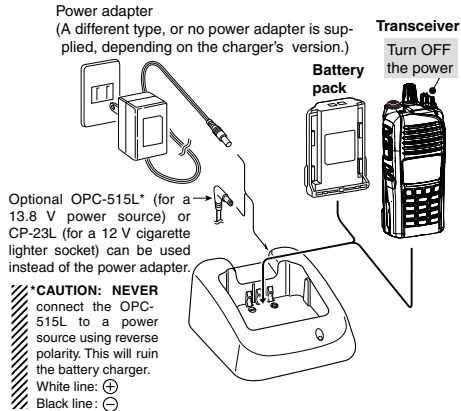
You can rapidly charge the Li-ion battery pack with the BC-160, or regularly charge the pack with the BC-171.

#### • Charging time

BC-160: Approximately 3.5 hours for the BP-232WP  
BC-171: Approximately 11 hours for the BP-232WP

The following items are additionally required:

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



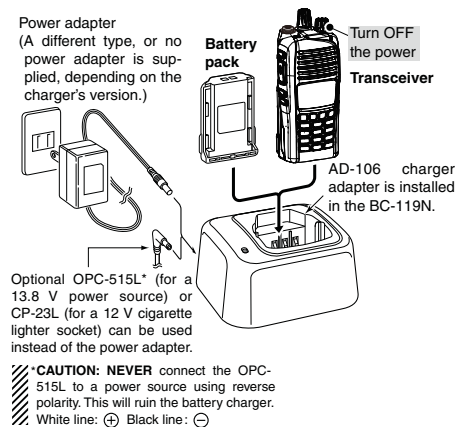
### ◇ Rapid charging with the BC-119N+AD-106

You can rapidly charge the Li-ion battery pack with the optional BC-119N.

Charging time: Approximately 3.5 hours for the BP-232WP

The following items are additionally required.

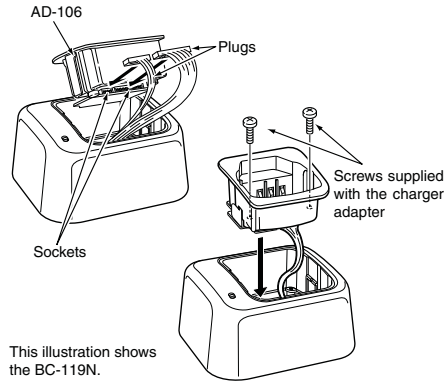
- AD-106 charger adapter (purchase separately)
- A power adapter (may be supplied with BC-119N, depending on the charger version) or the OPC-515L/CP-23L DC power cable.



### ◇ AD-106 installation

You must install the AD-106 CHARGER ADAPTER into the BC-119N DESKTOP CHARGER or BC-121N MULTI-CHARGER before charging any batteries.

- ① Connect the AD-106 and the BC-119N/BC-121N.
- ② Install the AD-106 into the holder space of the BC-119N/BC-121N with the supplied screws.



This illustration shows the BC-119N.

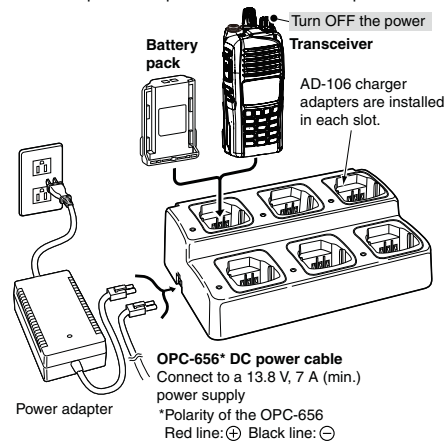
### ◇ Rapid charging with the BC-121N+AD-106

You can charge up to 6 battery packs with the optional BC-121N.

Charging time: Approximately 3.5 hours for the BP-232WP

The following items are additionally required. (purchase separately)

- Six AD-106 charger adapters
- BC-157S power adapter or the OPC-656 DC power cable



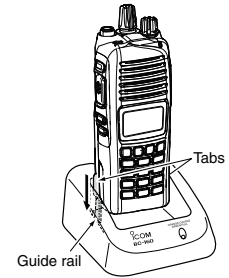
## BATTERY CHARGING (Continued)

#### IMPORTANT: Battery charging caution

Ensure the guide tabs on the battery pack are correctly aligned with the guide rails inside the charger adapter. This illustration is for the BC-160.

#### CAUTION:

**When using the OPC-656 DC power cable**  
**NEVER** reverse the polarity when connecting the OPC-656 to a power source. This will ruin the battery charger.  
OPC-656: Red line: ⊕, Black line: ⊖



## OPTIONS

### ◇ BATTERY PACKS

- **BP-232WP** Li-ion BATTERY PACK

Voltage: 7.4 V, Capacity: 2250 mAh (min.) 2300 mAh (typical)  
Battery life: (Digital mode) Approximately 14.5 hours  
(Analog mode) Approximately 13 hours

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

- **BP-240** BATTERY CASE  
Battery case for six AAA (LR03) alkaline batteries
- **BP-261** BATTERY CASE  
Battery case for six AA (LR6) alkaline batteries

### ◇ DC CABLES

- **CP-23L** CIGARETTE LIGHTER CABLE  
Used when charging battery packs through a 12 V cigarette lighter socket. For use with the BC-119N/BC-160/BC-171 chargers.
- **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-119N  
OPC-656: For the BC-121N

### ◇ CHARGERS

- **BC-119N** DESKTOP CHARGER + **AD-106** CHARGER ADAPTER + **BC-145S** POWER ADAPTER

For rapidly charging of battery packs.  
A power adapter may be supplied, depending on the charger's version.

Charging time: Approximately 3.5 hours

- **BC-121N** MULTI-CHARGER + **AD-106** CHARGER ADAPTER (6 pcs.) + **BC-157S** POWER ADAPTER

For rapidly charging of up to 6 battery packs simultaneously.  
Six AD-106s are required.  
A power adapter or a DC power source must be purchased separately.

Charging time: Approximately 3.5 hours

- **BC-160** DESKTOP CHARGER + **BC-145S** POWER ADAPTER

For rapidly charging of battery packs.  
A power adapter may be supplied, depending on the charger's version.

Charging time: Approximately 3.5 hours

- **BC-171** DESKTOP CHARGER + **BC-147S** POWER ADAPTER

For regularly charging of battery packs.  
A power adapter may be supplied, depending on the charger's version.

Charging time: Approximately 11 hours

### ◇ BELT CLIPS

- **MB-93** SWIVEL BELT CLIP
- **MB-94/MB-94R** BELT CLIP  
Alligator-type belt clip.
- **MB-96N/MB-96F** LEATHER BELT HANGER

### ◇ ANTENNAS

- **FA-SC56VS/FA-SC57VS/FA-SC73US** STUBBY ANTENNAS  
Shorter VHF or UHF antennas.
- **FA-SC56VS**: 150–162 MHz      **FA-SC57VS**: 160–174 MHz  
**FA-SC73US**: 450–490 MHz
- **FA-SC25V/FA-SC55V/FA-SC25U/FA-SC57U/FA-SC72U** FLEXIBLE ANTENNAS  
VHF or UHF antennas.
- **FA-SC25V**: 136–150 MHz      **FA-SC55V**: 150–174 MHz  
**FA-SC25U**: 400–430 MHz      **FA-SC57U**: 430–470 MHz  
**FA-SC72U**: 470–520 MHz
- **FA-SC61VC/FA-SC61UC** CUT ANTENNAS  
**FA-SC61VC**: 136–174 MHz      **FA-SC61UC**: 380–520 MHz
- **FA-SC62V/FA-SC63V** HIGH GAIN ANTENNAS  
**FA-SC62V**: 150–160 MHz      **FA-SC63V**: 155–165 MHz

### ◇ OTHERS

- **AD-118** ACC ADAPTER  
Allows you 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.
- **HM-184/HM-184H** SPEAKER MICROPHONE  
Rugged type speaker microphone.  
The HM-184 and HM-184H meet IP67 requirements for waterproof protection.
- **VS-4MC** 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  
The VS-4MC meets IP54 requirement for splash resistance. When it is connected, the transceiver corresponds to IP54.
- **MB-130** VEHICLE CHARGER BRACKET  
Mounts the BC-160 DESKTOP CHARGER in variety of places in the vehicle.

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.