

ICOM INSTRUCTIONS

VHF DIGITAL TRANSCEIVERS

IC-F3210D

UHF DIGITAL TRANSCEIVERS

IC-F4210D

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

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.

EXPLICIT DEFINITIONS

WORD	DEFINITION
⚠ <b>DANGER!</b>	Personal death, serious injury or an explosion may occur.
⚠ <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.

Icom is not responsible for the destruction damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:

- Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

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**CAUTION: DO NOT** expose the battery pack to rain, snow, saltwater, or any other liquids. Do not charge or use a wet pack. If the pack gets wet, be sure to wipe it with a clean dry cloth before using.

**CAUTION:** Always use the battery within the specified temperature range, −20°C ~ +60°C (−4°F ~ +140°F). Using the battery out of its specified temperature range will reduce the battery's performance and battery life.

**CAUTION: DO NOT** leave the pack fully charged, completely discharged, or in an excessive temperature environment (above 50°C, 122°F) for an extended period of time. If the battery pack must be left unused for a long time, it must be detached from the transceiver after discharging. You may use the battery pack until the remaining capacity is about half, then keep it safely in a cool and dry place at the following temperature range:

−20°C ~ +50°C (−4°F ~ +122°F) (within a month)  
−20°C ~ +40°C (−4°F ~ +104°F) (within three months)  
−20°C ~ +20°C (−4°F ~ +68°F) (within a year)

**BE SURE** to replace the battery pack with a new one approximately five years after manufacturing, even if it still holds a charge. The material inside the battery cells will become weak after a period of time, even with little use. The estimated number of times you can charge the pack is between 300 and 500. Even when the pack appears to be fully charged, the operating time of the transceiver may become short when:

- Approximately 5 years have passed since the pack was manufactured.
- The pack has been repeatedly charged.

◇ Charging caution  
(for the BP-265 Li-ion BATTERY)

⚠ **DANGER! NEVER** charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun-heated vehicle, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging.

⚠ **WARNING! NEVER** charge the transceiver during a lightning storm. It may result in an electric shock, cause a fire or damage the transceiver. Always disconnect the power adapter before a storm.

⚠ **WARNING! NEVER** charge or leave the battery in the battery charger beyond the specified time for charging. If the battery is not completely charged by the specified time, stop charging and remove the battery from the battery charger.  
Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture.

⚠ **WARNING!** Occasionally observe the battery pack condition while charging. If any abnormal condition occurs, discontinue using the battery pack.

**CAUTION: DO NOT** insert the transceiver (battery attached to the transceiver) into the charger if it is wet or soiled. This could corrode the battery charger terminals or damage the charger. The charger is not waterproof.

**CAUTION: DO NOT** charge the battery pack outside of the specified temperature range: 10°C ~ 40°C (50°F ~ 104°F). Icom recommends charging the pack at 25°C (77°F). The pack may heat up or rupture if charged out of the specified temperature range. Additionally, pack's performance or battery cell life may be reduced.

FCC INFORMATION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**CAUTION:** Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations.

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

PRECAUTIONS

⚠ **WARNING! NEVER** use or charge Icom battery packs with non-Icom transceivers or non-Icom chargers. Only Icom battery packs are tested and approved for use with Icom transceivers or charged with Icom chargers. Using third-party or counterfeit battery packs or chargers may cause smoke, fire, or cause the battery to burst.

⚠ **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.

⚠ **WARNING! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels. The continuous high volume operation may cause a ringing in your ears. If you experience the ringing, reduce the volume level or discontinue use.

⚠ **WARNING! NEVER** operate the transceiver while driving a vehicle. Safe driving requires your full attention—anything less may result in an accident.

**CAUTION: DO NOT** short the terminals of the battery pack. Shorting may occur if the terminals touch metal objects such as a key, so be careful when placing the battery packs (or the transceiver) in bags, and so on. Carry them so that shorting cannot occur with metal objects. Shorting may damage not only the battery pack, but also the transceiver.

**CAUTION: DO NOT** use harsh solvents such as Benzene or alcohol when cleaning. This could damage the equipment surfaces. If the surface becomes dusty or dirty, wipe it clean with a soft, dry cloth.

**CAUTION: DO NOT** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

**CAUTION: DO NOT** use or place the transceiver in direct sunlight or in areas with temperatures below −30°C (+22°F) or above +60°C (+140°F).

**CAUTION: DO NOT** modify the transceiver. The transceiver warranty does not cover any problems caused by unauthorized modification.

**CAUTION: DO NOT** place or leave the transceiver in excessively dusty environments. This could damage the transceiver.

SAFETY TRAINING INFORMATION



Your Icom radio generates RF electromagnetic energy while transmitting. This radio is designed for and classified as for "Occupational Use Only." This means it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the "General Population" in an uncontrolled environment. This radio has been tested and complies with the FCC and IC RF exposure limits for "Occupational Use Only". In addition, your Icom radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

- FCC KDB Publication 447498 D03, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields— RF and Microwave.
- The antennas, batteries, belt clips, speaker-microphone, and other accessories that are listed in "OPTIONS" on this sheet, are authorized for use with this product. Use of accessories other than those specified may result in RF exposure levels exceeding the FCC and IC requirements for wireless RF exposure.
- Health Canada Safety Code 6 - Limits of Human Exposure to Electromagnetic Energy in the Frequency Range from 3 kHz to 300 GHz.



To ensure that your expose to RF electromagnetic energy is within the FCC and IC allowable limits for occupational use, always adhere to the following guidelines:

- **DO NOT** operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC and IC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.
- **DO NOT** transmit for more than 50% of the total radio use time ("50% duty cycle"). Transmitting more than 50% of the time can cause FCC and IC RF exposure compliance requirements to be exceeded. The radio is transmitting when the status indicator lights red. You can cause the radio to transmit by pushing the "PTT" switch.
- **ALWAYS keep** the antenna at least 2.5 cm (1 inch) away from the body when transmitting, and only use the Icom belt-clips listed in "OPTIONS" on this sheet when attaching the radio to your belt, or other place, to ensure FCC and IC RF exposure compliance requirements are not exceeded. The information listed above provides t he user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates within the FCC and IC RF exposure limits of this radio.

**CAUTION: MAKE SURE** the flexible antenna and battery pack are securely attached to the transceiver, and that the antenna and battery pack are dry before attachment. Exposing the inside of the transceiver to water will result in serious damage to the transceiver.

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

**KEEP** the transceiver away from heavy rain, and never immerse it in the water. The transceiver meets IP54\* requirements for dust-protection and splash resistance. However, once the transceiver has been dropped, dust-protection and splash resistance cannot be guaranteed because of possible damage to the transceiver's case or the waterproof seal.

\* Only when the battery pack/case and jack cover are attached.

Even when the transceiver power is OFF, a slight current still flows in the circuits. Remove the battery pack or batteries from the transceiver when not using it for a long time. Otherwise, the installed battery pack or batteries will become exhausted, and will need to be recharged or replaced.

**MAKE SURE** to turn the transceiver power OFF before connecting the supplied/optional equipment.

◇ Battery caution  
(for the BP-264 Ni-MH BATTERY)

⚠ **DANGER! NEVER** short terminals (or charging terminals) of the battery pack. 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.

⚠ **DANGER! 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.

**CAUTION:** Always use the battery within the specified temperature range, −5°C ~ +60°C (23°F ~ 140°F). Using the battery out of its specified temperature range will reduce the battery's performance and battery life.

**CAUTION:** Shorter battery life could occur if the battery is left completely discharged, or in an excessive temperature environment (above 55°C: 131°F) for an extended period of time. If the battery must be left unused for a long time, it must be detached from the radio after charging. Keep it safely in a cool dry place at the following temperature range:

−20°C ~ +45°C (−4°F ~ +113°F) (up to a month)  
−20°C ~ +35°C (−4°F ~ +95°F) (up to six months)  
−20°C ~ +25°C (−4°F ~ +77°F) (up to a year\*)

\* We recommend charging the battery pack every 6 months.

**Clean** the battery terminals to avoid rust or misscontact.

**Keep** the battery terminals clean. It's a good idea to occasionally clean them.

If your Ni-MH 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.  
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 ~ 40°C (rapid charge: with BC-191) or between 0°C ~ 45°C (regular charge: with BC-192)
- Use the supplied charger or optional charger (BC-191 for rapid charging, BC-192 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 time by the BC-192 should be less than 48 hours.
- Use the battery pack until it becomes almost completely exhausted, under normal conditions. We recommend battery charging after transmitting becomes impossible.

◇ Battery caution  
(for the BP-265 Li-ion BATTERY)

Misuse of Li-ion batteries may result in the following hazards: smoke, fire, or the battery may rupture. Misuse can also cause damage to the battery or degradation of battery performance.

⚠ **DANGER! NEVER** solder the battery terminals, or NEVER modify the battery pack. This may cause heat generation, and the battery may burst, emit smoke or catch fire.

⚠ **DANGER! NEVER** place or leave battery packs in areas with temperatures above 60°C (140°F). High temperature buildup in the battery cells, such as could occur near fires or stoves, inside a sun-heated vehicle, or in direct sunlight for long periods of time may cause the battery cells to rupture or catch fire. Excessive temperatures may also degrade the battery pack's performance or shorten the battery cell's life.

⚠ **DANGER! NEVER** strike or otherwise impact the battery pack. Do not use the battery pack if it has been severely impacted or dropped, or if the pack has been subjected to heavy pressure. Battery pack damage may not be visible on the outside of the case. Even if the surface of the battery does not show cracks or any other damage, the cells inside the battery may rupture or catch fire.

⚠ **DANGER! NEVER** place battery packs near a fire. Fire or heat may cause them to rupture or explode. Dispose of used battery packs in accordance with local regulations.

⚠ **DANGER! NEVER** let fluid from inside the battery get in your eyes. This can cause blindness. Rinse your eyes with clean water, without rubbing them, and immediately get medical treatment from an eye doctor.

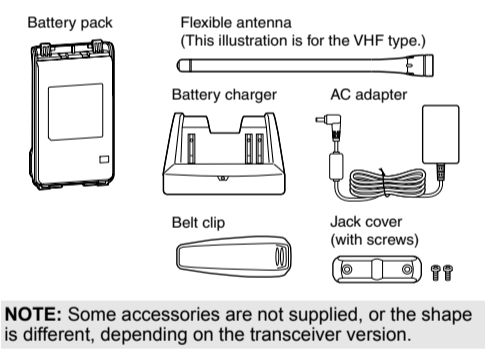
⚠ **WARNING! NEVER** put the battery pack in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause a fire, overheating, or cause the battery cells to rupture.

⚠ **WARNING! NEVER** let fluid from inside the battery cells come in contact with your body. If it does, immediately wash with clean water.

⚠ **WARNING! NEVER** use deteriorated battery packs. They could cause a fire.

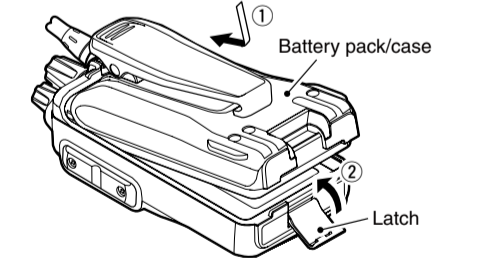
**CAUTION: DO NOT** continue to use the battery pack if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your Icom dealer or distributor.

SUPPLIED ACCESSORIES



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

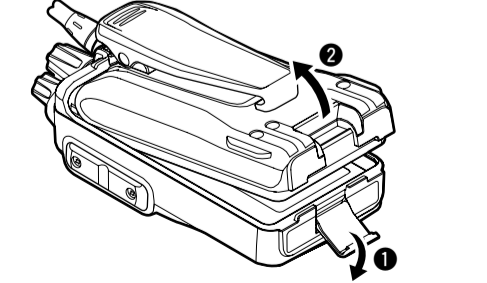
- ◇ Battery pack or case
- Attaching:**
1. Fit the battery pack/case in the direction of the arrow, then close it. (①)
  2. Hook the latch until it makes a 'click' sound. (②)



**Detaching:**

**BE CAREFUL!** The latch is tightly locked, so use caution when releasing it. **DO NOT** use your finger nail. Use the edge of a coin or screwdriver tip to carefully release it.

1. Unhook the latch. (①)
2. Lift up the battery pack/case in the direction of the arrow. (②)

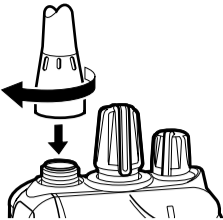


**NEVER** remove or attach the battery pack/case when the transceiver is wet or soiled. This may result in water or dust getting into the transceiver, battery pack/case, and may result in them being damaged.

**NOTE:** Keep the battery terminals clean. It's a good idea to occasionally clean them.

◇ Flexible antenna

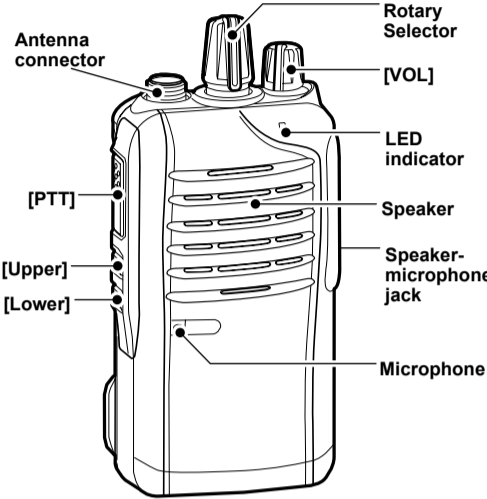
Connect the flexible antenna to the antenna connector.



**CAUTION:**

- **DO NOT** carry the transceiver by holding only the antenna.
- **DO NOT** connect an antenna other than those listed in the "OPTION" section.
- Transmitting without an antenna may damage the transceiver.

PANEL DESCRIPTION



◇ Status indicator

Lights red: Transmitting.  
Lights green: Receiving or squelch is open.  
Lights or blinks orange: A status call is received.  
Slowly blinks green: The battery should be charged.  
Blinks green fast: The battery must be charged.

◇ Speaker microphone jack

**CAUTION: DO NOT** use the transceiver without the jack cover or the optional equipment attached.  
The transceiver meets IP54\* requirements for dust-protection and splash resistance only when the battery pack/case and jack cover are attached.

◇ Rapid charging with the BC-197

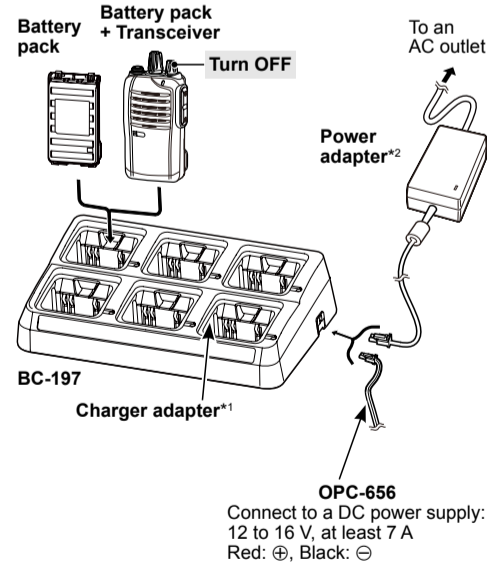
You can rapidly charge the Li-ion battery pack (BP-264 or BP-265) with the BC-197.

**Charging time:**  
Approximately 2 hours for the BP-264  
Approximately 2.5 hours for the BP-265

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

- A power adapter (not supplied with some versions) or the DC power cable (OPC-656).

**CAUTION: DO NOT** reverse the polarity when connecting the OPC-656 to a power source. This will ruin the battery charger.  
Red: ⊕, Black: ⊖



\*1 Charger adapter's shape may differ, depending on the charger version.  
\*2 A different type, or no power adapter is supplied, depending on the charger version.

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.

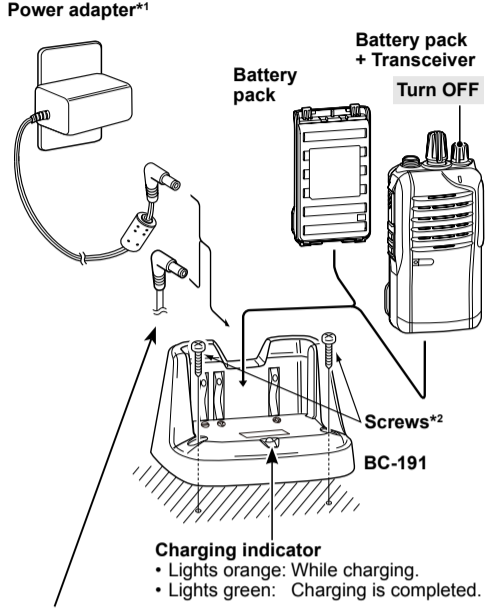
◇ Rapid charging with the BC-191

You can rapidly charge the Ni-MH battery pack (BP-264 only) with the BC-191.

**Charging time:**  
Approximately 2 hours for the BP-264

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

- A power adapter (not supplied with some versions) or the DC power cable (OPC-515L/CP-23L).



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

**CAUTION: NEVER** connect the OPC-515L to a power source using reverse polarity. This will ruin the battery charger. White line: ⊕, Black line: ⊖

\*1 A different type or no power adapter is supplied, depending on the version.  
\*2 Self tapping screw: M3.5 × at least 30 mm  
Purchase separately. Using screws is recommended to secure the charger.

**NOTE:** If the charging indicator alternately blinks green and orange, remove the battery pack or the transceiver from the charger, then reinsert it.

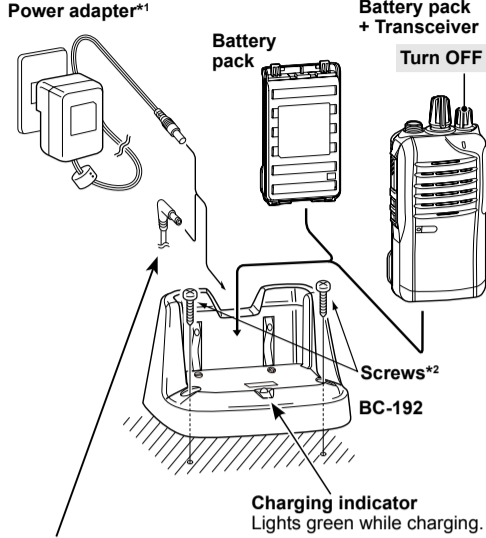
◇ Regular charging with the BC-192

You can regularly charge the Ni-MH battery pack (BP-264 only) with the BC-192.

**Charging time (with BC-147S):**  
Approximately 16 hours for the BP-264

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

- A power adapter (not supplied with some versions) or the DC power cable (OPC-515L)



The OPC-515L (for power source) can be used instead of the AC adapter.

**CAUTION: NEVER** connect the OPC-515L to a power source using reverse polarity. This will ruin the battery charger. This will ruin the battery charger. White line: ⊕, Black line: ⊖

\*1 A different type or no power adapter is supplied, depending on the version.  
\*2 Self tapping screw: M3.5 × at least 30 mm  
Purchase separately. Using screws is recommended to secure the charger.

**NOTE:** If the charging indicator alternately blinks green and orange, remove the battery pack or the transceiver from the charger, then reinsert it.

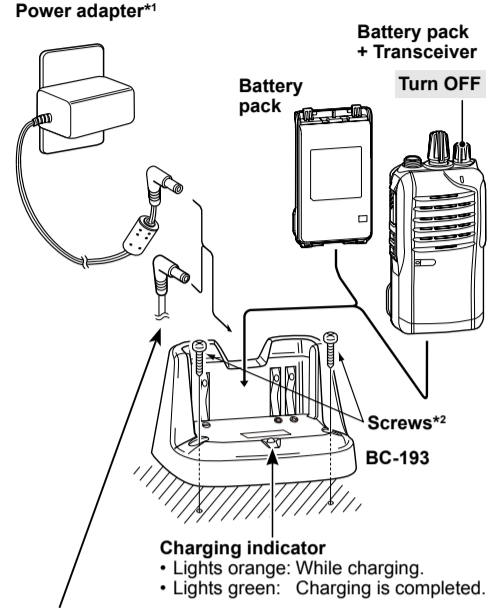
◇ Rapid charging with the BC-193

You can rapidly charge the Li-ion battery pack (BP-265 only) with the BC-193.

**Charging time:**  
Approximately 2.5 hours for the BP-265

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

- A power adapter (not supplied with some versions) or the DC power cable (OPC-515L/CP-23L).



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

**CAUTION: NEVER** connect the OPC-515L to a power source using reverse polarity. This will ruin the battery charger. White line: ⊕, Black line: ⊖

\*1 A different type or no power adapter is supplied, depending on the version.  
\*2 Self tapping screw: M3.5 × at least 30 mm  
Purchase separately. Using screws is recommended to secure the charger.

**NOTE:** If the charging indicator alternately blinks green and orange, remove the battery pack or the transceiver from the charger, then reinsert it.

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.

- Rotate [VOL] to turn ON the transceiver.

◇ Receiving and Transmitting

**Receiving:**

1. Select a channel.
  - Ⓢ Rotate [Rotary Selector] or push one of memory channel keys [MR-CH1] or [MR-CH4], depending on the presetting.
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 ~ 10 cm (2 ~ 4 inches) from your mouth, then speak at your normal voice level.

OPTIONS

◇ BATTERY PACKS

- BP-263/BP-264/BP-265 BATTERY PACKS

Battery pack	Voltage	Capacity	Approximate Battery life*1	
BP-263	Battery case for 6 AA (LR6) alkaline		—*2	
BP-264	7.2 V	1400 mAh (typical)	VHF	12 hours
			UHF	11 hours
BP-265	7.4 V	1900 mAh (minutes) 2000 mAh (typical)	VHF	17.5 hours
			UHF	16 hours

\*1 When the power save function is turned ON, and the operating periods are calculated under the following conditions.  
TX : RX : standby = 5 : 5 : 90  
\*2 The average operating time depends on the alkaline cells used.

◇ CHARGERS

- BC-191 DESKTOP CHARGER + BC-123S AC ADAPTER  
To rapidly charge a Ni-MH battery pack.
- BC-192 DESKTOP CHARGER + BC-147S AC ADAPTER  
To regularly charge a Ni-MH battery pack.
- BC-193 DESKTOP CHARGER + BC-123S AC ADAPTER  
To rapidly charge a Li-ion battery pack.
- BC-197 MULTI CHARGER  
To rapidly charge up to 6 battery packs. An AC adapter may be supplied with the charger, depending on the charger version. There are two types of BC-197 chargers for the IC-F3210D/IC-F4210D series.

BC-197 Charger Type	Chargeable Battery	Charging time
With AD-120*	BP-264 Ni-MH battery	Approximately 2 hours
	BP-265 Li-ion battery	Approximately 2.5 hours

\* Either the AD-120 or AD-121 charger adapters are installed in the BC-197, depending on the chargeable battery pack.

◇ DC CABLES

- CP-23L CIGARETTE LIGHTER CABLE  
Used when charging battery packs through a 12 V cigarette lighter socket. For use with the BC-191/BC-193.
- 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-191/BC-192/BC-193  
OPC-656: For the BC-197

◇ ANTENNAS

- FA-SC73US/FA-SC56VS/FA-SC57VS STUBBY ANTENNAS  
FA-SC73US: 450 ~ 490 MHz  
FA-SC56VS: 150 ~ 162 MHz  
FA-SC57VS: 160 ~ 174 MHz
- FA-SC03U/FA-SC25U/FA-SC57U/FA-SC72U/FA-SC25V/FA-SC55V/FA-SC62V/FA-SC63V ANTENNAS  
FA-SC03U: 380 ~ 430 MHz  
FA-SC25U: 400 ~ 430 MHz  
FA-SC57U: 430 ~ 470 MHz  
FA-SC72U: 470 ~ 520 MHz  
FA-SC25V: 136 ~ 155 MHz  
FA-SC55V: 146 ~ 174 MHz  
FA-SC62V: 155 MHz  
FA-SC63V: 160 MHz
- FA-SC61VC/FA-SC61UC CUT ANTENNAS  
FA-SC61VC: 136 ~ 174 MHz  
FA-SC61UC: 380 ~ 520 MHz

◇ OTHERS

- AD-98FSC ANTENNA CONNECTOR CONVERTER  
Allows you to connect an external antenna with a BNC connector.
- HM-158L/HM-159L SPEAKER MICROPHONE  
Combination speaker-microphone that provides convenient operation while the transceiver is on your belt.
- HM-171GP SPEAKER MICROPHONE  
GPS speaker-microphone for the digital mode operation.
- HS-94/HS-95/HS-97 HEADSET + OPC-2004 PLUG ADAPTER CABLE  
HS-94: Ear hook type  
HS-95: Neck-arm type  
HS-97: Throat microphone  
OPC-2004: Allows you to connect the HS-94/HS-95/HS-97 to the transceiver. After connection, the VOX function can be used.
- SP-27 TUBE EARPHONE  
Provides clear audio in noisy environments.

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