VHF P25 TRANSCEIVERS

IC-F7010T/IC-F7010S

UHF P25 TRANSCEIVERS

IC-F7020T/IC-F7020S IC-F7040T/IC-F7040S

Thank you for choosing this Icom product. **READ ALL INSTRUCTIONS** carefully and completely pefore 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	
△ DANGER!	Personal death, serious injury or an explosion may occur.	
△ WARNING!	Personal injury, fire hazard or electric shock may occur.	
CAUTION	Equipment damage may occur.	
NOTE	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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AMBE+2 is a trademark and property of Digital Voice Systems Inc.

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),

American National Standards Institute (C95.3-1992),

IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields— RF and

The antennas, batteries, belt clips, speaker-microphone,

and other accessories that are listed in "OPTIONS" on the INSTRUCTIONS sheet, are authorized for use

with this product. Use of accessories other than those

specified may result in RF exposure levels exceeding

Health Canada Safety Code 6 - Limits of Human

To ensure that your expose to RF

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

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

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" of the INSTRUCTIONS

sheet when attaching the radio to your belt, or other place, to ensure FCC and IC RF exposure compliance

The information listed above provides the 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

when the LED indicator lights red. You can cause the radio

CAUTION adhere to the following guidelines

the manufacturer for use with this radio.

to transmit by pushing the "PTT" switch.

requirements are not exceeded.

the FCC and IC requirements for wireless RF exposure

Exposure to Electromagnetic Energy in the Frequency Range from 3 kHz to 300 GHz.

electromagnetic energy is within the FCC and IC allowable limits for occupational use, always

IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic

All other products or brands are registered trademarks or trademarks of their respective holders.

Icom Inc.

Count on us!

1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan

Fields. 3 kHz to 300 GHz.

Microwave

A7377H-1EX-2 Printed in Japan © 2017-2018 Icom Inc.

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 transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC

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

A DANGER! NEVER short the terminals of the battery

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

 $\ensuremath{\Delta}$ DANGER! 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.

△ DANGER! NEVER operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

⚠ 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. The transceiver will perform best if the microphone is 5 to 10 cm (2 to 4 inches) away from the lips and the transceiver

⚠ 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.

CAUTION: DO NOT use harsh solvents such as Benzine 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 place or leave the transceiver in excessively dusty environments. This could damage the

CAUTION: DO NOT expose the transceiver to rain, snow or any liquids. The transceiver meets IP68 requirements for dustprotection and splash resistance. However, once the transceiver has been dropped, dust protection and splash resistance cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, and so on.

DO NOT place or leave the transceiver in direct sunlight or in areas outside of the specified temperature range: -30°C (–22°F) ~ +60°C (+140°F)

Keep the transceiver in a secure place to prevent use by unauthorized persons.

♦ Battery caution

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

 \triangle **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

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

 \triangle **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

 △ DANGER! NEVER expose the battery pack to rain. snow, seawater, or any other liquids. Do not charge or use a wet pack. If the pack gets wet, be sure to wipe it dry before using

△ DANGER! NEVER place or leave battery packs near

Fire or heat may cause them to rupture or explode Dispose of used battery packs in accordance with local regulations.

 \triangle **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 go to a doctor

oven, high-pressure container, or in an induction heating cooker. This could cause a fire, overheating, or cause the battery cells to rupture.

 \triangle WARNING! NEVER 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

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

CAUTION: DO NOT use the battery pack out of the specified temperature range for the transceiver (-30° C $\sim +60^{\circ}$ C (-22° F $\sim +140^{\circ}$ F)) and the battery itself (-20° C $\sim +60^{\circ}$ C (-4° F $\sim +140^{\circ}$ F)). Using the battery out of its specified temperature range will reduce its performance and battery cell's life. Please note that the specified temperature range of the battery may exceed that of the transceiver. In such cases, the transceiver may not work properly because it is out of its operating temperature

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:

 $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim +122^{\circ}\text{F}$) (within a month) $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim +104^{\circ}\text{F}$) (within three months) $-20^{\circ}\text{C} \sim +20^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim +68^{\circ}\text{F}$) (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

△ 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.

 \triangle 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

Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may

△ WARNING! NEVER 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 outside of the specified temperature range:

BC-214: (16°C ~ 40°C (60.8°F ~ 104°F)) BC-219N: (16°C ~ 40°C (60.8°F ~ 104°F))

Otherwise, the charging time will be longer, but the battery will not reach a full charge. While charging, at a point after the temperature goes out of the specified range, the charging will automatically stop.

Electromagnetic Interference/Compatibility

During transmissions, your loom radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

Occupational/Controlled Use

The radio transmitter is used in situations in which persons are exposed as a consequence of their employment, provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

RECOMMENDATION

CLEAN THE TRANSCEIVER THOROUGHLY IN A BOWL **OF FRESH WATER** after exposure to saltwater, and dry it before operating. Otherwise, the transceiver's keys, switches, and controllers may become unusable, due to salt crystallization, and/or the charging terminals of the battery pack may corrode.

NOTE: If the transceiver's waterproof protection appears defective, carefully clean the transceiver with a soft, damp (fresh water) cloth, then dry it before operating. The transceiver may lose its waterproof protection if the case, jack cap, or connector cover is cracked or broken, or the transceiver has been dropped. Contact your Icom distributor or your dealer for advice.

VOICE CODING TECHNOLOGY

The AMBE+2™ voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to extract, remove, decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form. U.S. Patent Nos. #8,595,002, #8,359,197, #8,315,860, #8,200,497,

#7,970,606, #6,912,495 B2.

ABOUT GPS/GLONASS RECEIVER

An internal GPS or GLONASS receiver may not work if the transceiver transmits or receives in the frequency ranges as shown below. This problem is made in the internal circuit and does not indicate a transceiver malfunction.

For the IC-F7010T/IC-F7010S (Unit: MHz)

	GPS receiver	GLONASS receiver	
Transmit	142.850 ~ 142.860	145.275 ~ 145.945	
	157.135 ~ 157.145	159.805 ~ 160.540	
Receive	146.845 ~ 147.110	149.745 ~ 150.790	

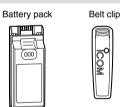
For the IC-F7020T/IC-F7020S (Unit: MHz)

	GPS receiver	GLONASS receiver	
Transmit	392.840 ~ 392.865	399.515 ~ 401.343	
Receive	443.545 ~ 444.065	449.335 ~ 451.425	

(Unit: MHz)

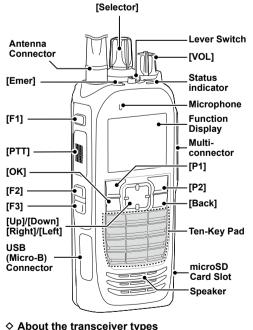
	FOI tile IC-F70401/IC-F70403		(
		GLONASS receiver		
	Transmit	799.0375 ~ 802.6875		
	Receive	856.1815 ~ 859.8375		

SUPPLIED ACCESSORIES



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

PANEL DESCRIPTION



There are 2 types of transceivers. IC-F7010S/IC-F7020S/IC-F7040S: Simple key types IC-F7010T/IC-F7020T/IC-F7040T: Ten-key types

♦ About the Status indicator

- Lights blue, 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.

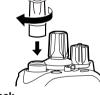
♦ About the Software key functions

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

ATTACHING ACCESSORIES

♦ Flexible antenna Connect the antenna to the antenna connector.

- DO NOT carry the transceiver by holding only the
- DO NOT connect an antenna other than those listed in the INSTRUCTIONS.
- · Transmitting without an antenna may damage the transceiver

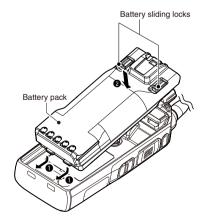


♦ Battery pack

CAUTION: DO NOT attach or detach the battery pack when the transceiver is wet or soiled. This may result in water or dust getting into the transceiver/battery pack and

To attach:

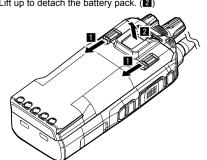
Slide the battery pack in the direction of the arrow. (1)
 Push the battery pack until the battery sliding locks make a 'click' sound. (2)



To detach:

1. Push both battery sliding locks in the direction of the arrow. (11)

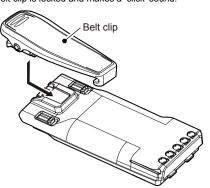
2. Lift up to detach the battery pack. (2)



ATTACHING ACCESSORIES (Continued)

To attach:

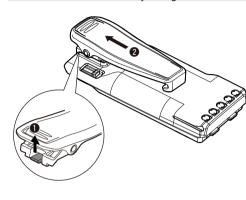
- Remove the battery pack from the transceiver, if it is attached.
- Slide the belt clip in the direction of the arrow until the belt clip is locked and makes a 'click' sound



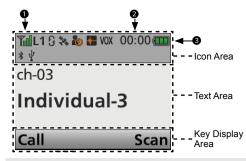
To detach:

Lift the tab up $(\mathbf{0})$, and slide the belt clip in the direction of the arrow $(\mathbf{2})$.

BE CAREFUL! DO NOT break your fingernail



FUNCTION DISPLAY



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

Indicators

SIGNAL STRENGTH INDICATOR

Displays the relative receive signal strength level.

Displays the current time.

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

8 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 L2 H "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

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 a matching signal is received, depending on the presetting.

In the Analog mode:
Displayed when the Voice Scrambler function is ON.

SCRAMBLER/ENCRYPTION ICON

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

RECORD ICON 🔤 😘

- Displayed when the Record function is ON.
 Blinks while recording audio.
- ① "M" is displayed when there is no microSD card free space and audio cannot be recorded.

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 VOX

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 a microSD card is inserted into the card "m" is displayed when the microSD card has not been formatted.

USB ICON 🖞 Displayed when a USB device is connected.

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]. Ask your dealer about the assigned Software key

♦ CHARGERS
• BC-219N DESKTOP CHARGER + BC-123S

AC ADAPTER
To rapidly charge the battery pack.
Charging time: Approximately 4.5 hours for the BP-284

A power adapter may be supplied, depending on the

+ BC-157S AC ADAPTER, OPC-656 DC POWER

simultaneously.

Charging time: Approximately 4.6 hours for the BP-284

The AD-132N charger adapter may be needed,

must be purchased separately.

BC-225 INTELLIGENT DESKTOP CHARGER +

charger's version.

① An USB (Micro-B) cable is required to connect the BC-

225 and a PC with the RS-BC225 installed. BC-227 RAPID CHARGER

+ BC-123S AC ADAPTER, OPC-515L DC POWER CABLE

♦ DC CABLES

Used when charging battery packs using a 13.8 V DC

♦ BELT CLIPS and BELT HANGERS MB-133 belt clip

- · MB-136 belt clip
- Rotating type.
 MB-96F, MB-96FL, MB-96N BELT HANGERS

FA-S81VS, FA-S82VS, FA-S83VS,
 FA-S81US, FA-S82US STUBBY ANTENNAS

FA-S81V, FA-S82V, FA-S83V, FA-S81U, FA-S82U, FA-S83U FLEXIBLE ANTENNAS

VHF or UHF antennas. FA-S81V: 136 ~ 150 MHz FA-S83V: 160 ~ 174 MHz FA-S82U: 430 ~ 480 MHz FA-S81U: 380 ~ 430 MHz FA-S83U: 470 ~ 520 MHz

• FA-S67VC, FA-S76UC CUT ANTENNAS FA-S67VC: 136 ~ 174 MHz FA-S76UC: 380 ~ 520 MHz • FA-S100U ANTENNA 760 ~ 870 MHz

BATTERY CHARGING

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-219N/BC-225 You can rapidly charge the Li-ion battery pack with the BC-219N or BC-225.

Charging time:

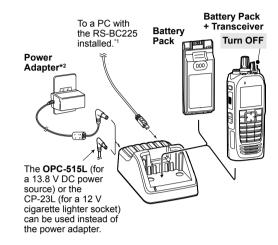
BC-219N: Approximately 4.5 hours for the BP-284 BC-225: Approximately 4.3 hours for the BP-284

- 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.

 A LISP code for the power of the power power in the power in the
- A USB cable to connect the PC and BC-225 when using

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

White line: ⊕, Black line: ⊝



*1 The RS-BC225 is usable for only with the BC-225.

*2 A different type, or no power adapter is supplied, depending on the charger version.

♦ OTHERS

MB-130 CHARGER BRACKET

AD-118 ACC ADAPTER
To connect an accessory. See the AD-118 instruction sheet

CAUTION: The AD-118 does not have waterproof protection. When it is connected, NEVER expose the adapter and the transceiver to rain, snow or any liquids.

+ HS-94, HS-95, HS-97 HEADSET VS-4MC: Used to connect a headset to a transceiver.

HS-97: Throat microphone
• HM-222 SPEAKER MICROPHONE

With an Emergency key. The HM-222 meets IP68 requirements for waterproof

The Bluetooth® headset with a [PTT] switch.

• About the third party Bluetooth® headsets: Icom has checked the PTT operation with some 3M Peltor headsets such as the WS Headset XP, WS ProTac XP and

O For only the IC-F7040T/IC-F7040S • VS-5MC PTT SWITCH CABLE

+ HS-94, HS-95, HS-97 HEADSET
VS-5MC: Used to connect a headset to a transceiver. HS-94: Ear-hook type

+ EH-15B EARPHONE, SP-28 EAR HOOK TYPE **EARPHONE** • SP-32 TUBE TYPE EARPHONE ADAPTER For use with EH-15B.

SP-27 TUBE EARPHONE, SP-29 EAR HOOK TYPE EARPHONE, SP-40 EARPHONE + AD-135

multi-connector.

Some options may not be available in some countries. Ask your dealer for details. Icom, Icom Inc. and the Icom logo are registered

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BATTERY CHARGING (Continued)

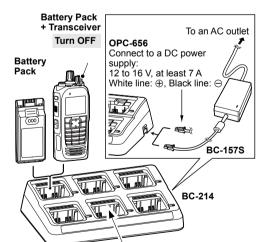
♦ Rapid charging with the BC-214 You can rapidly charge up to 6 battery packs with the optional BC-214.

Approximately 4.6 hours for the BP-284 Additionally needed item (purchase separately):
• The BC-157S AC ADAPTER or the OPC-656 dc power

 The AD-132N 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 White line: ⊕, Black line: ⊝

Charging time:



Charger adapter's shape may differ, depending on the charger version.

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

① Rotate [Selector] or push [Up] or [Down], depending

on the presetting.
When receiving a call, rotate [VOL] to adjust the audio

Rotate [VOL] to turn ON the transceiver. Receiving and Transmitting

Receiving: Select a channel.

output level to a comfortable listening level. Transmitting:

CAUTION: Attach an antenna before transmitting.

Transmitting without an antenna may damage the

- Wait until the channel is clear to avoid interference. While holding down [PTT], speak at your normal voice
- 3. Release [PTT] to receive.

IMPORTANT:

To maximize the readability of your signal:

1. 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 your normal voice level.

OPTIONS

♦ BATTERY PACKS BP-283 LI-ION BATTERY PACK

Voltage: 1950 mAh (minimum), 2010 mAh (typical) Capacity Approximately 9 hours (IC-F7010T/IC-F7010S) Battery life:

Voltage:

Approximately 14 hours* (IC-F7010T/IC-F7010S)

operating periods are calculated under the following

• BP-284 LI-IÒN BATTERY PACK

Capacity: Battery life: 3120 mAh (minimum), 3210 mAh (typical)

*1 When the power save function is set to "Short," and the

TX : RX : standby = 5 : 5 : 90

charger's version.

BC-214 MULTI-CHARGER

For rapidly charging of up to 6 battery packs

depending on the charger's version.

① The BC-157S ac adapter or OPC-656 dc power cable

BC-123S AC ADAPTER +
RS-BC225 READER SOFTWARE

To rapidly charge the battery pack.
You can check the charging status using the RS-BC225.
Charging time: Approximately 4.3 hours for the BP-284

(i) A power adapter may be supplied, depending on the

To rapidly charge the battery pack.
Charging time: Approximately 4.3 hours for the BP-284

OPC-515L DC POWER CABLE must be purchased

separately

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

FA-S82V: 148 ~ 162 MHz

for details of recommended accessories.

• LC-184 CARRYING CASE For the Simple key types and Ten-key types.
• VS-4MC PTT SWITCH CABLE

HS-94: Ear-hook type HS-95: Neck-arm type

protection. VS-3 Bluetooth® HEADSET

WS Alert XP. (Compatibility not guaranteed.)

HS-95: Neck-arm type HS-97: Throat microphone

• HM-163MC TIEPIN TYPE MICROPHONE

EARPHONE ADAPTER
AD-135: Used To connect an earphone to the transceiver's

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