ICOM INSTRUCTIONS

MULTI CHARGER

BC-197

Thank you for purchasing the **BC-197** MULTI CHARGER. The BC-197 is designed to charge Ni-MH or Li-ion battery packs.

Please read these instructions thoroughly before using the BC-197.

PRECAUTIONS

⚠ **DANGER!** Charge only specified Icom battery packs with Icom chargers. Only Icom battery packs are tested and approved to be charged with Icom chargers. Charging third-party or counterfeit battery packs may cause smoke, fire, or cause the battery to burst.

⚠ **DANGER! NEVER** incinerate a used battery pack since internal battery gas may cause it to rupture, or may cause an explosion.

⚠ **WARNING! NEVER** attempt to charge alkaline or dry cell battery packs. The BC-197 charges only Icom specified Ni-MH or Li-ion battery packs.

⚠ **WARNING! NEVER** disassembly the multi charger and/or AC adapter. Incorrect reassembly may result in a fire hazard or electric shock.

USE INDOORS ONLY! NEVER expose the multi charger and the AC adapter to rain, snow or any liquids.

CAUTION: NEVER insert a battery pack (with/without the transceiver) in a wet or soiled condition into the multi charger. This may result in corrosion of the charger terminals or damage to the charger. The charger is not waterproof and water can easily get into it.

NEVER let metal, wire, etc. touch any internal part of the multi charger.

NEVER use the multi charger or AC adapter when it is covered by objects which impede heat dispersion.

NEVER allow children to touch the multi charger. Place the charger in a secure place to avoid inadvertent use by children.

DO NOT operate the multi charger and/or AC adapter if it has been dropped or damaged in any way. The charger or AC adapter must be inspected by an authorized service center in such cases.

DO NOT charge in conditions of extreme cold (under +10°C; +50°F) or extreme heat;
Ni-MH battery pack: over +35˚C; +95˚F
Li-ion battery pack: over +40˚C; +104˚F
or unusual conditions like overvoltage. Otherwise, the safety/protection circuit in the charger will activate, and stop charging.

Keep the charger away from TV sets or radios to prevent interference.

Make sure battery and charger contacts are always clean; otherwise the battery packs may not properly charge.

SAVE THESE INSTRUCTIONS. These instructions contain important safety and operating details for the **BC-197**.

NOTE: BE SURE to disconnect the BC-157S from the AC outlet when the multi charger is not used, otherwise the radio may receive switching noise from the AC adapter, depending on the operating frequencies and/or antenna used.

FCC INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ABOUT CE

CE Versions of the BC-197 which display the “CE” symbol on the serial number label comply with the essential requirements of the 2004/108/EC directive for Electromagnetic Compatibility.
This compliance is based upon the harmonised CENELEC generic standard EN 61000-3-2:2006/A1:2009+A2:2009, EN 61000-3-3:2008, EN61000-6-1: 2007 and EN61000-6-3: 2007.

SUPPLIED ACCESSORY

Item	Qty.
• AC adapter (BC-157S)*	1

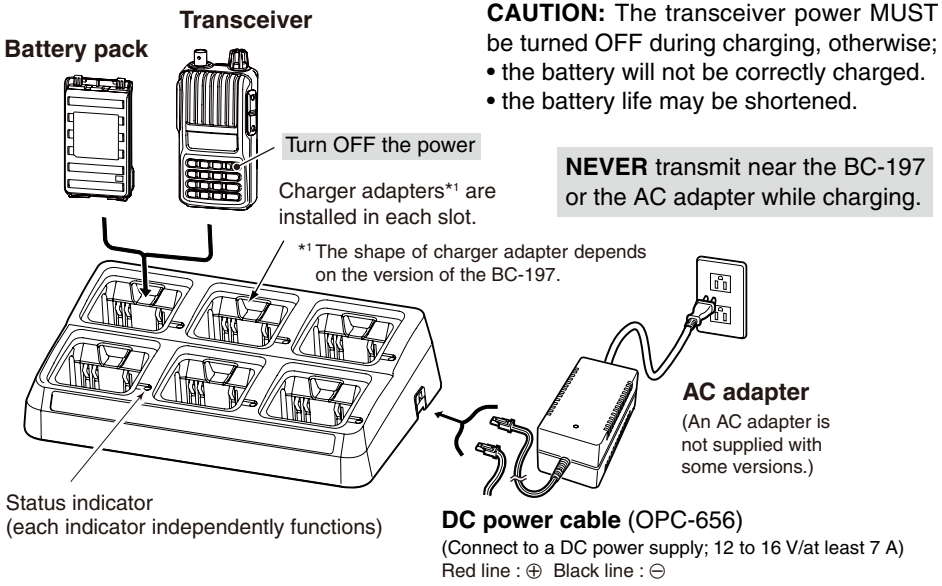
* Different types or no AC adapter is supplied, depending on the BC-197 version.

CHARGING OPERATION

① Connect the BC-157S AC adapter, or an optional OPC-656 DC power cable, to the BC-197, as illustrated below.
- No status indicator lights up.

② Insert a battery pack with (or without) the transceiver into a BC-197 charging slot.
- The corresponding status indicator lights up in orange.

③ When the status indicator changes to GREEN, battery charging is completed.
- But it is still charging in the Ni-MH battery pack trickle charge mode.



DC power cable (OPC-656)
(Connect to a DC power supply; 12 to 16 V/at least 7 A)
Red line : ⊕ Black line : ⊖

CAUTION: The transceiver power MUST be turned OFF during charging, otherwise;
- the battery will not be correctly charged.
- the battery life may be shortened.

NEVER transmit near the BC-197 or the AC adapter while charging.

STATUS INDICATOR

❍ Lights orange : While charging
❍ Lights green : Charging has completed.
❍ Blinks red :
- ● There is a problem with the inserted battery pack and/or the charger.
- ● The protector is activated (not a malfunction) such as when;
  - The battery pack temperature exceeds +45°C (+113˚F).
    - Remove and cool down the battery pack.
  - The end of the battery pack's working life.
    - When the indicator blinks within 1 hour from the start of the charging, charge the battery pack without a transceiver or with a powered-off transceiver. In case the status indicator still blinks red, replace it will a brand new battery pack.

When the status indicator does not light, even after a battery pack is properly inserted, the battery pack may have a problem.

INFORMATION

There are four types of BC-197 chargers; one is for Ni-MH battery packs, and the other three are for Li-ion battery packs.
Check your battery type, and then be sure to choose the suitable charger.

BC-197 Charger Type	Chargeable Battery pack
With AD-120* charger adapters	Ni-MH battery pack: BP-264
With AD-121* charger adapters	Li-ion battery pack : BP-265
With AD-122* charger adapters	Li-ion battery pack : BP-230N, BP-232N, BP-232FM
With AD-124* charger adapters	Li-ion battery pack : BP-275

* The adapter model, AD-120, AD-121, AD-122 or AD-124 is printed on the inside bottom of the charger adapter. On the AD-120 and AD-121, the type of battery they hold is printed on the top right corner of the adapter.

Charging Li-ion battery packs:
To protect the battery, BC-197 will charge a Li-ion battery pack to only about 90% of it's fully charged capacity. Also the operating time of a transceiver with the battery pack will be shorter. If you would like to fully charge the battery pack, use the BC-193 or BC-160 instead of the BC-197.

NOTE:
After charging has completed, the BC-197 will automatically recharge a Li-ion battery pack when the battery voltage decreases to 8 V. When the battery pack is often left in the BC-197 for long periods, the battery life cycle will be shortened.

Charging period (approximately)
BP-264 : 2 hours
BP-265 : 2.5 hours
BP-232N : 2.5 hours
BP-275 : 2.2 hours

SPECIFICATIONS

Dimensions (projection is not included)	: 303.2(W)×179.7(D)×78.2(H) mm; 11.9(W)×7.5(D)×3.1(H) in.
Weight	: Approximately 1170 g; 2 lb 9 oz (with six charger adapters/without AC adapter)
Charging temperature range	: +10˚C to +35˚C; +50˚F to +95˚F (Ni-MH battery pack) +10˚C to +40˚C; +50˚F to +104˚F (Li-ion battery pack)
Power supply requirement	: 12 to 16 V DC or the specified Icom AC adapter (BC-157S)
Charging current	: 840 mA±10% (rapid charge) 30 mA±15 mA (Trickle charge for Ni-MH battery pack)

All stated specifications are subject to change without notice or obligation.

Icom Inc.
1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan.
Count on us!
A-6869H-1EX-① Printed in Japan