

iCOM

INSTRUCTION MANUAL

DESKTOP CHARGER
BC-72

Icom Inc.

FOREWORD

Thank you for purchasing the Icom BC-72* DESKTOP CHARGER. Please read this instruction manual carefully before using the desktop charger.

* There are 5 separate BC-72 versions:

MODEL	VERSION	POWER REQUIREMENT
BC-72A	U.S.A.	120 V 60 Hz AC or 12 V DC
BC-72D	Germany	220 V 50 Hz AC or 12 V DC
BC-72E	Europe	240 V 50/60 Hz AC or 12 V DC
BC-72V	Australia	240 V 50 Hz AC or 12 V DC
BC-72DC	General	12 V DC only

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FEATURES

- The BC-72 charges Icom "S" series handheld battery packs* BP-81 ~ BP-85 for approx. 1 ~ 1.5 hours with rapid charging. These slide-on battery packs may be charged alone or when attached to a handheld transceiver. This charger also charges internal batteries of "SAT/SET" series transceivers.

* The BP-86 BATTERY CASE cannot be charged.

- The built-in full-charge detector circuit prevents over-charging. Rapid charging stops when a battery pack reaches full charge, and trickle charging keeps the battery pack at the full-charge condition.
- This desktop charger can be used with either DC or AC power. (The BC-72DC can be used only with DC power.)

IMPORTANT SAFETY INSTRUCTIONS

1. **SAVE THIS INSTRUCTION MANUAL!**
This manual contains important safety and operating instructions for the BC-72 DESKTOP CHARGER.
2. Read all instructions thoroughly and carefully before using this desktop charger.
3. **CAUTION!** To reduce the risk of injury, charge only specified Icom NiCd rechargeable battery packs. Other types of battery packs may burst, causing damage and personal injury.
4. **DO NOT** expose the desktop charger and the AC adapter to rain, snow or any liquids.
5. **DO NOT** use an accessory which Icom does not sell or recommend, as it could result in a fire hazard or electric shock.

IMPORTANT SAFETY INSTRUCTIONS 1

6. When disconnecting the AC adapter from an AC outlet, pull the plug (not the cord) to reduce the risk of damage to the plug and cord.

7. **DO NOT** use an extension cord unless absolutely necessary. Using unsuitable extension cords may result in a fire hazard or electric shock. If an extension cord must be used, make sure that:
 - the pins of the extension cord plug are identical in number, size, and shape to those of the AC adapter plug.

 - the extension cord is properly wired and in good electrical condition.

 - the gauge of a cord up to 100 feet long is larger than 18AWG; up to 150 feet long, larger than 16AWG.

1 IMPORTANT SAFETY INSTRUCTIONS

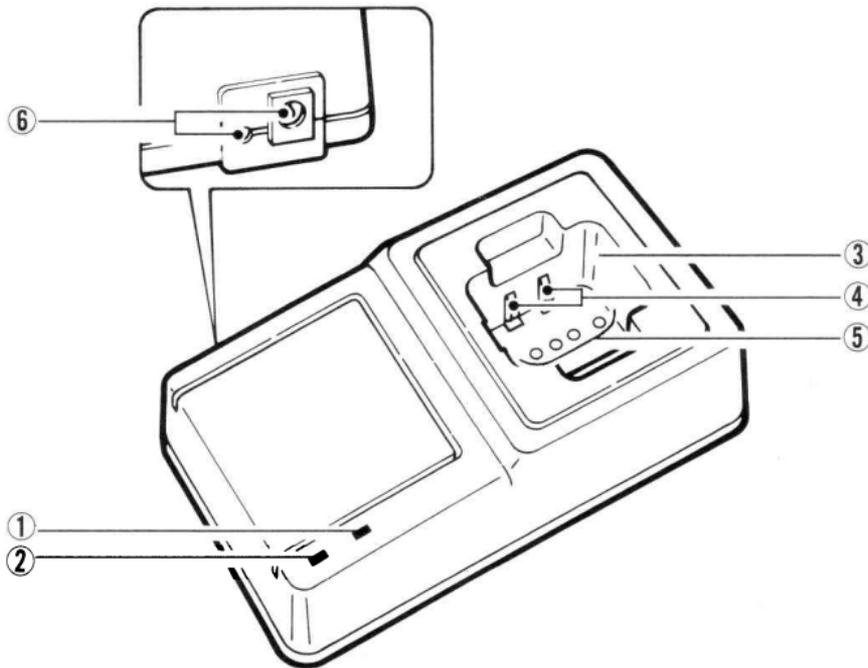
8. Make sure the cord of the AC adapter is placed where it cannot be stepped on, tripped over or subjected to damage.
9. **DO NOT** operate the desktop charger with an AC adapter which has a damaged cord or plug. The AC adapter must be repaired by an authorized Icom Service Center.
10. **DO NOT** operate the desktop charger if it has been dropped or damaged in any way. The desktop charger must be inspected by an authorized Icom Service Center.
11. **DO NOT** disassemble the desktop charger. Incorrect reassembly may result in a fire hazard or electric shock.

IMPORTANT SAFETY INSTRUCTIONS 1

12. To reduce the risk of electric shock, unplug an AC adapter from an AC outlet before maintenance or cleaning.
13. **DO NOT** use the desktop charger with the AC adapter to power other appliances.
14. **DO NOT** let metal, wire, etc., touch any internal part of the desktop charger.
15. **DO NOT** place liquids on or near the desktop charger and the AC adapter.
16. **DO NOT** use the desktop charger with the AC adapter when it is covered by objects which impede heat dispersal.
17. **DO NOT** place the desktop charger and the AC adapter within the reach of babies or children at any time.

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PANEL DESCRIPTION



① **CHARGING INDICATOR [CHARGE]**

Lights up in green during charging. Automatically turns OFF when charging is completed.

② **POWER INDICATOR [POWER]**

Lights up in red when the power plug is inserted. Indicates that power is ON.

③ **BATTERY PACK CHARGING SLOT**

Insert the battery pack into the slot with the front of the battery pack facing you.

④ **CHARGING TERMINALS**

Charge the battery pack through these terminals.

⑤ **MICROSWITCHES**

These switches select the correct current for each battery pack.

⑥ **POWER CONNECTORS**

For connection to the AC adapter.

- If a car battery is connected, an optional CP-12 CIGARETTE LIGHTER CABLE WITH NOISE FILTER must be used.
- If DC power is connected, an optional OPC-235 MINI DC POWER CABLE must be used.

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CHARGING PRECAUTIONS

- Icom rechargeable battery packs can be charged about 300 times. After 300 charges, a new battery pack should be purchased. The internal batteries of the battery pack are not replaceable.
- **DO NOT** charge a fully charged battery pack.
- **DO NOT** obstruct the small holes on the bottom of the battery pack.
- Keep the desktop charger away from TV sets or radios to prevent interference.
- **AVOID** charging in extreme cold (under 0°C; +32°F) or extreme heat (over +40°C; +104°F).
- Be sure to unplug the AC adapter from an AC outlet when the desktop charger is not in use.

CHARGING PRECAUTIONS 3

- To clean the cabinet, wipe gently with a moist soft cloth, and then pat dry. **DO NOT** use alcohol, thinner, benzine or any other liquid which may damage the finish.

BATTERY MEMORY EFFECT:

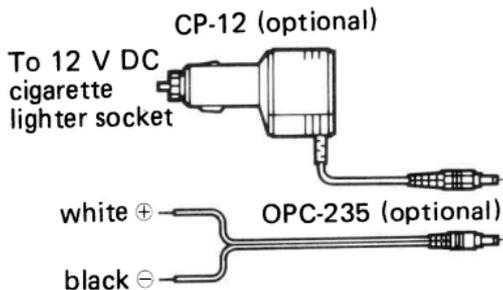
The full charge capacity of NiCd rechargeable batteries may be reduced if repeatedly charged with only partial discharge periods. This is called the battery memory effect. If the battery capacity seems lower than new, discharge the battery pack through normal use, then charge fully using the proper charger.

4 CHARGING OPERATIONS

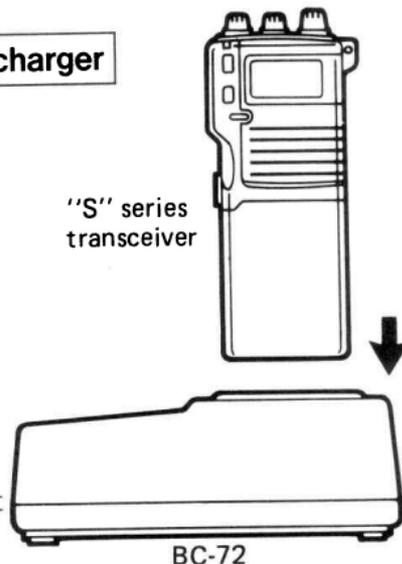
Supplied AC adapter

(The adapter in the diagram may differ depending on versions.)

USE ONLY one charger



"S" series transceiver



NOTE: To charge the internal batteries of an "SAT/SET" series transceiver, an optional BA-12 BATTERY CHARGE ADAPTER is necessary.

(1) CHARGING

- 1) Connect to a domestic AC power outlet through the supplied AC adapter or to a DC power supply as shown in the diagram at left (p. 10).
 - The red [POWER] indicator lights when the power plug is inserted into the desktop charger.

- 2) Insert the battery pack into the charging slot.
 - The green [CHARGE] indicator lights when the battery pack is inserted.
 - If the battery pack is inserted improperly, the green [CHARGE] indicator disappears after 1 sec.

- 3) When charging is finished, the green [CHARGE] indicator automatically disappears.
 - If a fully charged battery pack is inserted, the green [CHARGE] indicator disappears after about 5 min.

NOTE: DO NOT turn ON power while charging a battery pack attached to a transceiver as malfunctions may occur.

4 CHARGING OPERATIONS

(2) CHARGING NOTE

When the green [CHARGE] indicator disappears immediately after inserting the battery pack into the charging slot:

- Check the direction of the battery pack.
- Check that the terminals of the battery pack and the desktop charger are not dirty.

Then re-insert the battery pack.

MALFUNCTIONS:

If the green [CHARGE] indicator does not disappear after 2 hrs. charging, the battery pack may need checking.

In that case, the battery pack should be checked by an authorized Icom Dealer or Service Center. We recommend that you have the desktop charger and the AC adapter checked, too.

SPECIFICATIONS 5

• Power requirement : BC-72 (Main body) 12 V DC (13.8 V \pm 15% DC)

: AC adapter

MODEL	VERSION	VOLTAGE (AC)
BC-72A	U.S.A.	120 V 60 Hz
BC-72D	Germany	220 V 50 Hz
BC-72E	Europe	240 V 50/60 Hz
BC-72V	Australia	240 V 50 Hz

• Charging current and time :

BATTERY PACK	CHARGING CURRENT	CHARGING TIME
BP-81	150 mA	1 hr.
BP-82	400 mA	1 hr.
BP-83	700 mA	1 hr.
BP-84	1000 mA	1 hr.
BP-85	250 mA	1.5 hrs.

• Dimensions : 160(W) x 60(H) x 90(D) mm
(Projections not included) 6.3(W) x 2.4(H) x 3.5(D) in

• Weight : 310 g (11 oz)

Count on us!

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