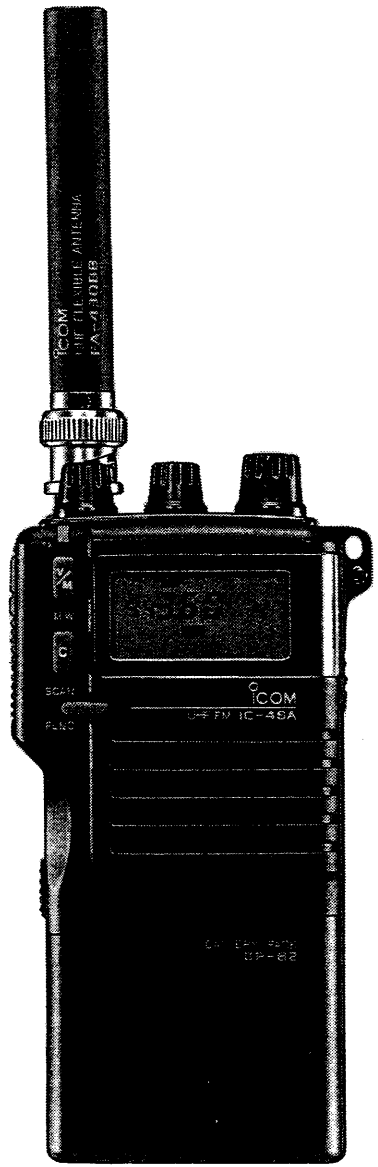
ICOM

INSTRUCTION MANUAL

UHF FM TRANSCEIVER

IC-4SA
IC-4SE

Icom Inc.

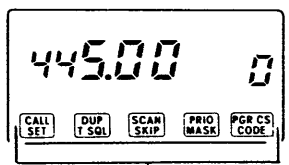


FOREWORD

This instruction manual explains basic operation of the IC-4SA/SE UHF FM TRANSCEIVER. When you require additional information, refer to a separate sheet called "Tech Talk," available from your nearest Icom Dealer or Service Center.

USE IN THE NORMAL CONDITION

If one of the function guides described at right appears during operation or when first applying power, the transceiver may not operate as explained in this instruction manual.



One of these guides

At that time, the transceiver should be set to normal conditions as follows:

1) Turn power OFF.

2) While pushing [LIGHT] and [V/M], turn power ON.
   • Be sure the function guide indicator disappears.

FIRST APPLYING POWER

If the transceiver seems to malfunction when first applying power, the internal rechargeable backup battery may be exhausted. This condition may occur if the transceiver is operated more than 1 week after the attached battery pack is exhausted.

At this time, the transceiver should be reset as follows:

1) Connect the wall charger to the top panel. (Asia version: install batteries into the battery case.)

2) Push and hold [MONITOR] and [LIGHT] then rotate [VOL] to turn ON power.

3) Turn OFF power, then wait until the battery pack is charged. (Not applicable to Asia version)

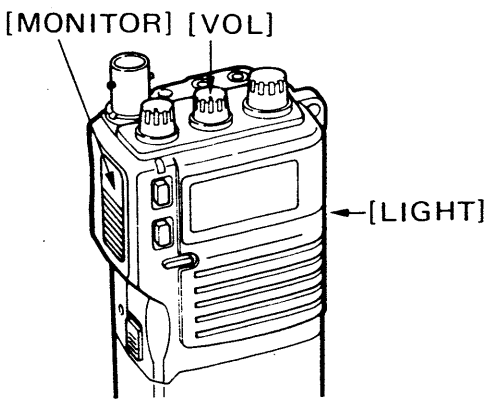
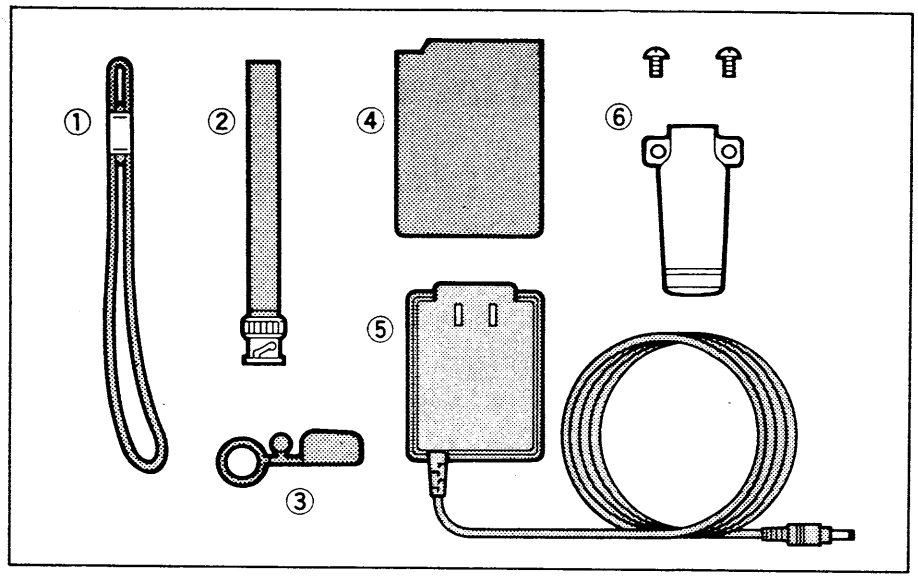


TABLE OF CONTENTS

UNPACKING



① Handstrap 1
② Antenna 1
③ Rainproof cap 1
④ Battery pack (BP-82)*1 1
⑤ Wall charger*2 1
⑥ Belt clip and screws . . . . . 1 set

*1 Battery case for Asia version
*2 BC-74A for U.S.A. version
BC-74V for Australia version
BC-73D for Europe and Italy versions
No charger included for Asia version

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important safety and operating instructions for the IC-4SA/SE.

OPERATING NOTES

BE CAREFUL! When transmitting for a long time with high output power, the rear panel may become hot.

When using the BP-90 (battery case) or BP-81 (smallest battery pack), we recommend operating with low output power. Battery power will be reduced quickly if the transceiver is operated continuously using high output power.

CAUTIONS

NEVER connect the transceiver via the [DC 13.8 V] jack to an AC outlet or to a power source of more than 16 V DC. These connections will ruin the transceiver.

NEVER connect the transceiver to a power source using reverse polarity. This connection will harm internal transceiver circuitry.

NEVER allow children to touch the transceiver.

NEVER use a non-recommended charger for charging. Suggested chargers are described on p. 3.

AVOID using or placing the transceiver in areas with temperatures below −10°C (+14°F) or over +60°C (+140°F).

AVOID placing the transceiver in direct sunlight.

SLIM AND UNBELIEVABLY COMPACT

Transceiver dimensions are just 49 mm (1.9")W x 103.5 mm (4.1")H x 33 mm (1.3"). These are dimensions that include the BP-82 BATTERY PACK! And the rounded body design gives you a feeling of even smaller transceiver dimensions.

CONVENIENT, SIMPLE OPERATION

The IC-4SA/SE's uncomplicated design includes just 6 switches and 3 controls. This design ensures easy operation. Also, no double controls are incorporated, making operation even easier.

EXTERNAL DC POWER JACK

Another Icom innovation. Even though the IC-4SA/SE is incredibly small, we've equipped it with an external DC power jack. Operate the transceiver either with a battery pack or an external power source such as a power supply, cigarette lighter socket in a vehicle, etc. No optional DC-DC converter is necessary. And battery charging can also be performed via this jack.

5 W OUTPUT POWER

It's hard to imagine 5 W of output power coming from such a small transceiver. Yet the IC-4SA/SE achieves this when connected to a 13.8 V DC power source. Also, 3 selectable low output power levels give you amazing versatility when transmitting.

AUTO POWER OFF AND POWER SAVE FUNCTION

The IC-4SA/SE has an advanced power saver design for conserving battery pack power. When no signal is received or no switch is pushed for 5 seconds, the power save function reduces current consumption to approx. 1/4. And after 60 minutes, power is automatically turned OFF by the auto power off function.

48 MEMORY CHANNELS

The transceiver has 48 fully-programmable memory channels and one call channel. Each memory and call channel stores an operating frequency and duplex (repeater) information. Your favorite frequency can be recalled immediately.

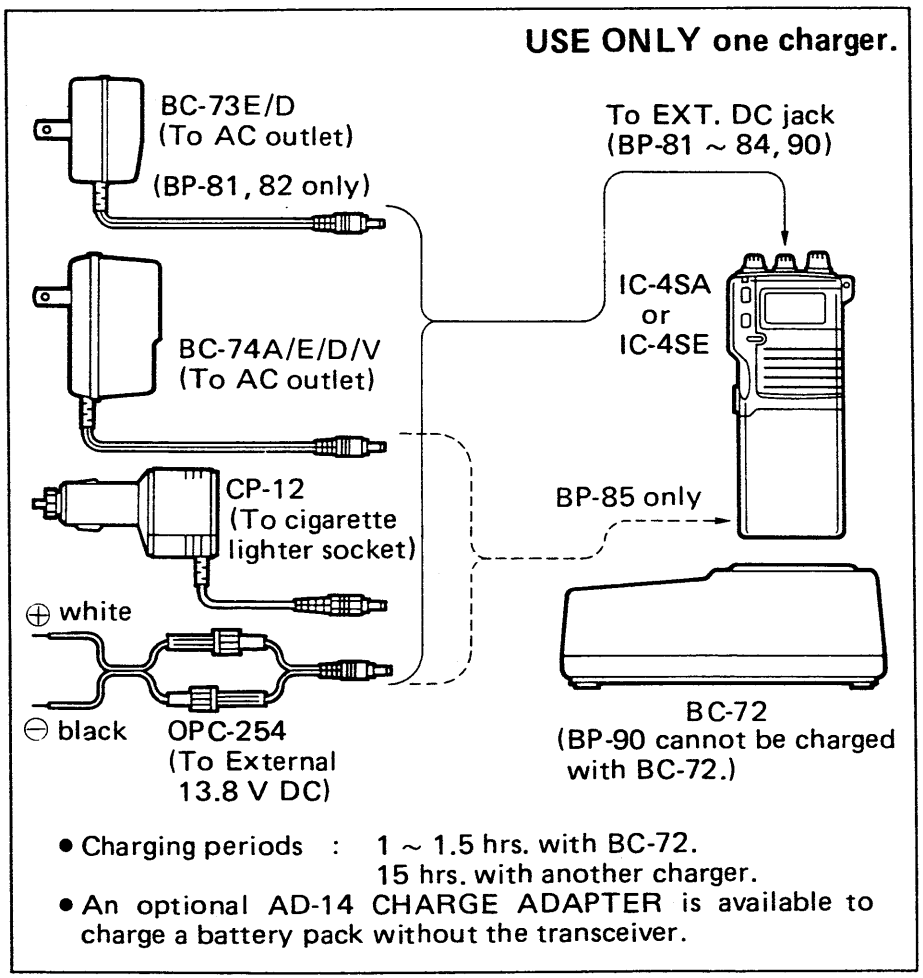
CONVENIENT SCAN FUNCTIONS

The transceiver is equipped with 2 scan functions, VFO scan and memory scan. The scan functions repeatedly scan the entire 2 m band or all programmed memory channels. In addition, the frequency skip function skips undesired frequencies during VFO scan.

2 PRE-OPERATION

(1) CHARGING CONNECTION

Charge any new battery pack or battery packs not used for 2 months or more.



- Charging periods : 1 ~ 1.5 hrs. with BC-72.
  15 hrs. with another charger.
- An optional AD-14 CHARGE ADAPTER is available to charge a battery pack without the transceiver.

(2) BATTERY PACK CAUTIONS

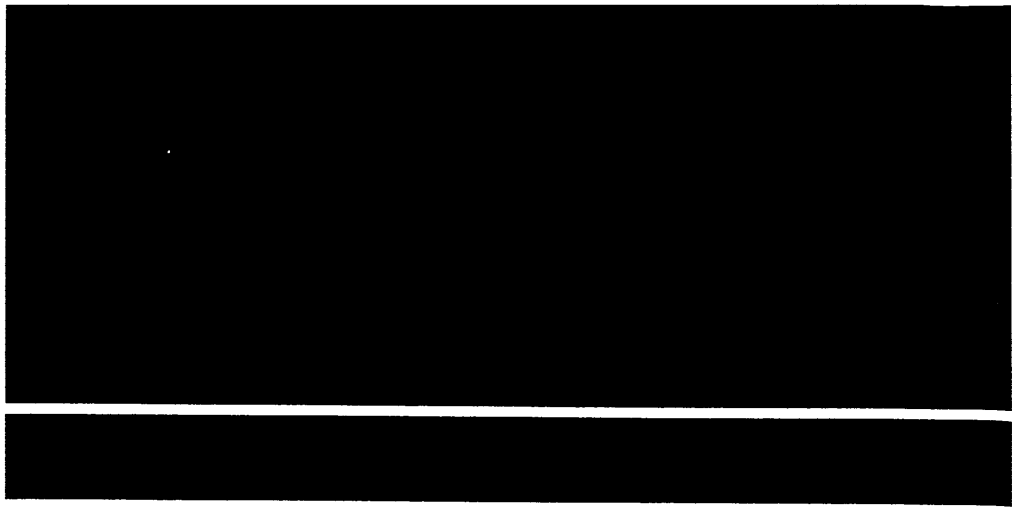
1. **NEVER** throw the battery pack into fire.
2. **NEVER** disassemble the battery pack.
3. **AVOID** operating or charging the battery pack in places below 0°C (+32°F) or over +45°C (+113°F).
4. **NEVER** obstruct the holes on the bottom of the battery pack when charging with the BC-72.
5. **NEVER** charge dry batteries with the BP-90.
6. **AVOID** shorting the terminals.

(3) USING THE BATTERY PACK WISELY

The battery pack is designed to withstand recharging periods longer than 1 week or more and can be fully discharged. However, overcharging or complete discharging shorten the life of a battery. The battery pack can be recharged about 300 times but its battery life can be lengthened to about 500 times as follows:

1. Avoid overcharging. Charging times should be less than 48 hours.
2. Use battery capacity almost completely. We recommend battery charging after transmitting becomes impossible.

Count on us!



A-5080S-1EX-①
Printed in Japan

Icom Inc.
6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan