ICOM

INSTRUCTION MANUAL

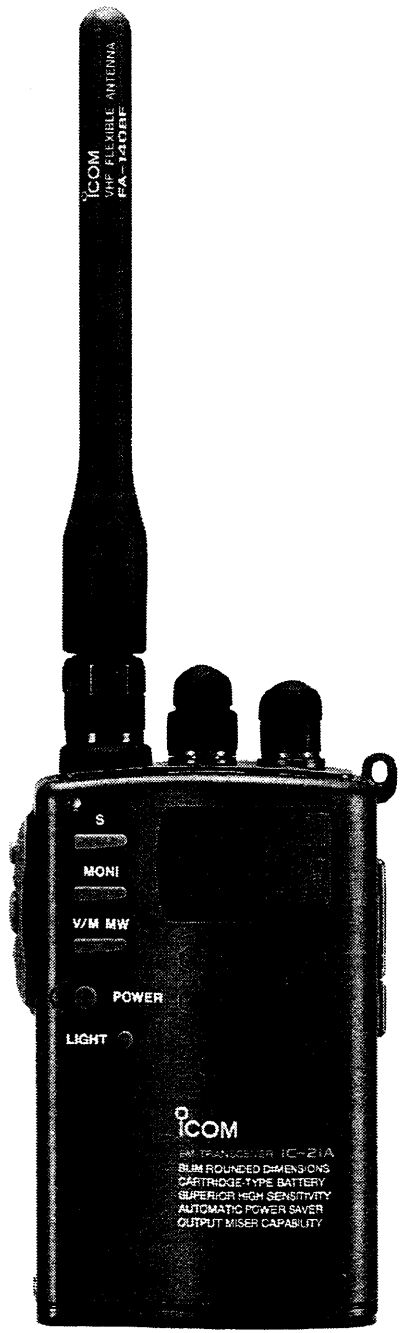
144 MHz FM TRANSCEIVER

IC-2iA
IC-2iE

UHF FM TRANSCEIVER

IC-4iA
IC-4iE

Icom Inc.



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-2iA/E and IC-4iA/E.

Note that this instruction manual applies only to those functions accessible in it's factory-shipped state. For operating more advanced functions, a booklet titled "Tech Talk" is available from your Icom Dealer.

EXPLICIT DEFINITIONS

CAUTION : Equipment damage may occur.

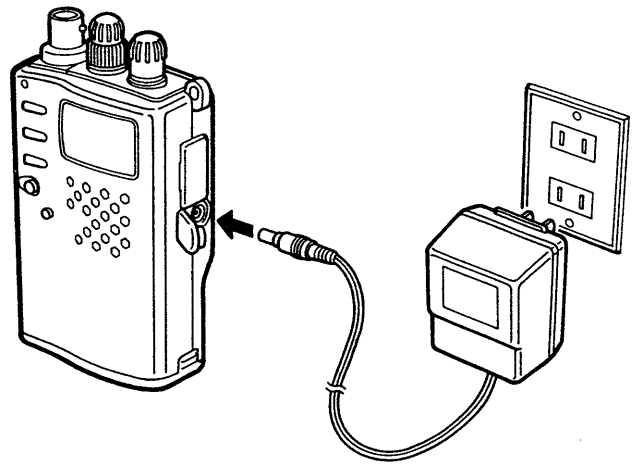
NOTE : If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.

WHEN FIRST APPLYING POWER

◇ Battery pack charging

Connect the supplied charger to the transceiver as shown in the figure below.

- DO NOT turn power ON while charging.
- Charging period is approx. 15 hrs.
- The internal rechargeable backup battery will be charged at the same time.

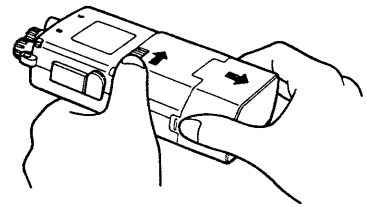


◇ Installing batteries into the battery case

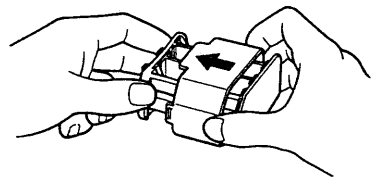
Install six dry cell batteries as shown in the figures below.

- Pay attention to the polarities.

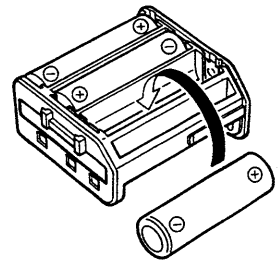
(Fig. 1)



(Fig. 2)



(Fig. 3)



◇ Power ON

Push and hold [POWER] for 1 sec. to turn power ON.

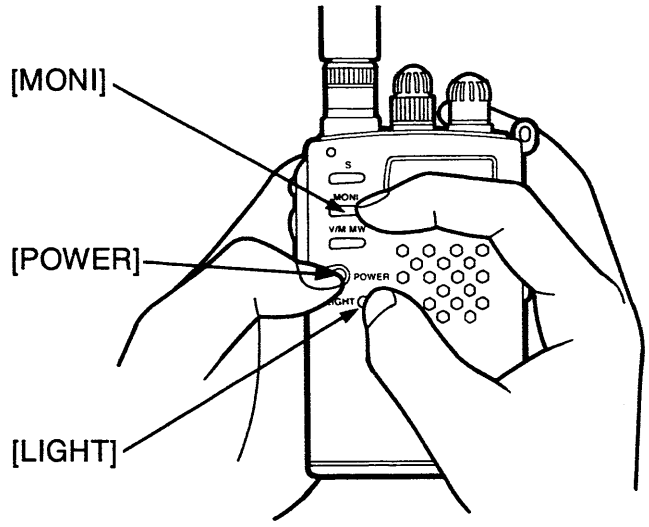
The power key may not function when the transceiver has not been operated for 2 months or more as the internal rechargeable backup battery may have become empty. In this case, activate the CPU as described below.

Push and hold [POWER] for 1 sec. again to turn power OFF.

◇ Resetting the transceiver

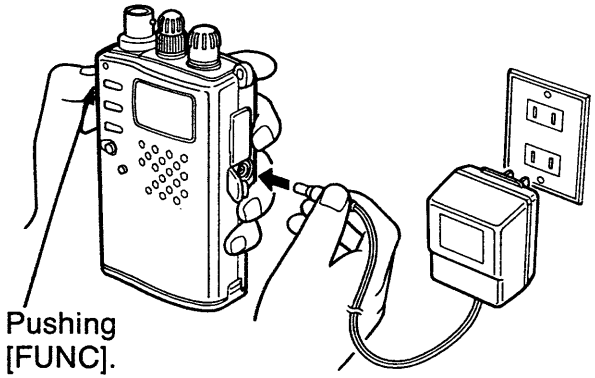
Reset the transceiver before operating for the first time, or when the internal CPU mulfunctions.

① Turn power OFF.
② While pushing [MONI] and [LIGHT], push and hold [POWER] for 1 sec. to reset the CPU.

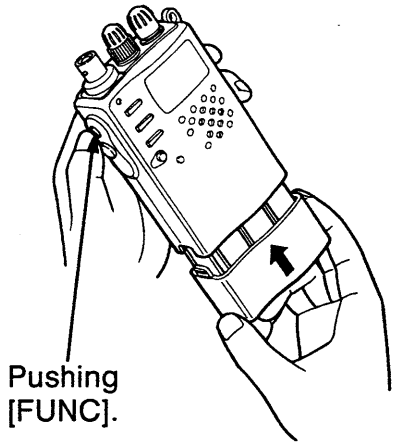


• **Activating the CPU** (when the power does not come on)

For the battery pack type:
While pushing the [FUNC] key, insert the DC plug of the supplied charger into a [DC12.5V] jack.



For the battery case type:
While pushing the [FUNC] key, attach the battery case.



CAUTIONS

NEVER connect the transceiver to an AC outlet or to a power source of more than 16 V DC.

NEVER connect the transceiver to a power source using reverse polarity. This connection will ruin the transceiver.

NEVER allow children to touch the transceiver.

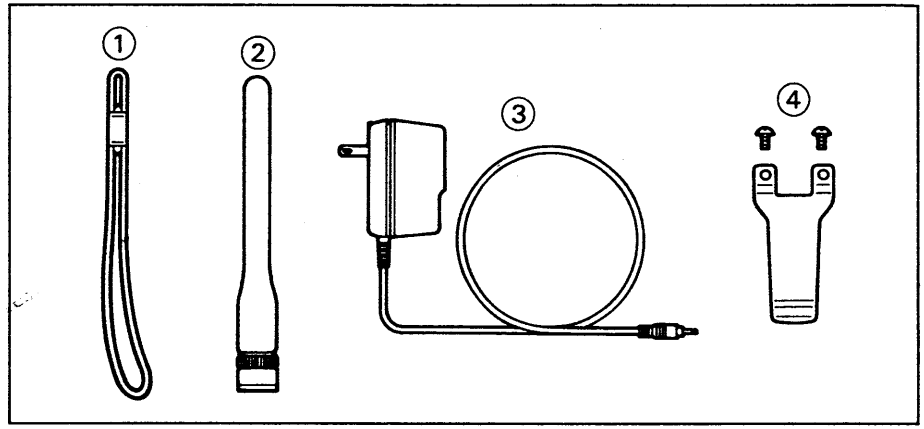
AVOID using or placing the transceiver in direct sunlight or in areas with temperatures below −10°C (+14°F) or above +60°C (+140°F).

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

The use of non-Icom battery packs/chargers may impair transceiver performance and invalidate the warranty.

Even when the transceiver power is OFF, a slight current still flows in the circuits. Remove the battery pack or case from the transceiver when not using the transceiver for a long time. Otherwise, the battery pack or installed dry cell batteries in the battery case will become exhausted.

UNPACKING



Accessories included with the transceiver:	Qty.
① Handstrap	1
② Antenna	1
③ Wall charger*	1
④ Beltclip and screws	1 set
Battery pack (BP-121) or battery case (BP-120) (attached with the transceiver)	1

*Not included with versions which have a battery case.

This instruction manual uses the IC-2iA/E for the example displays. Please note that only the frequency differs from the IC-4iA/E.

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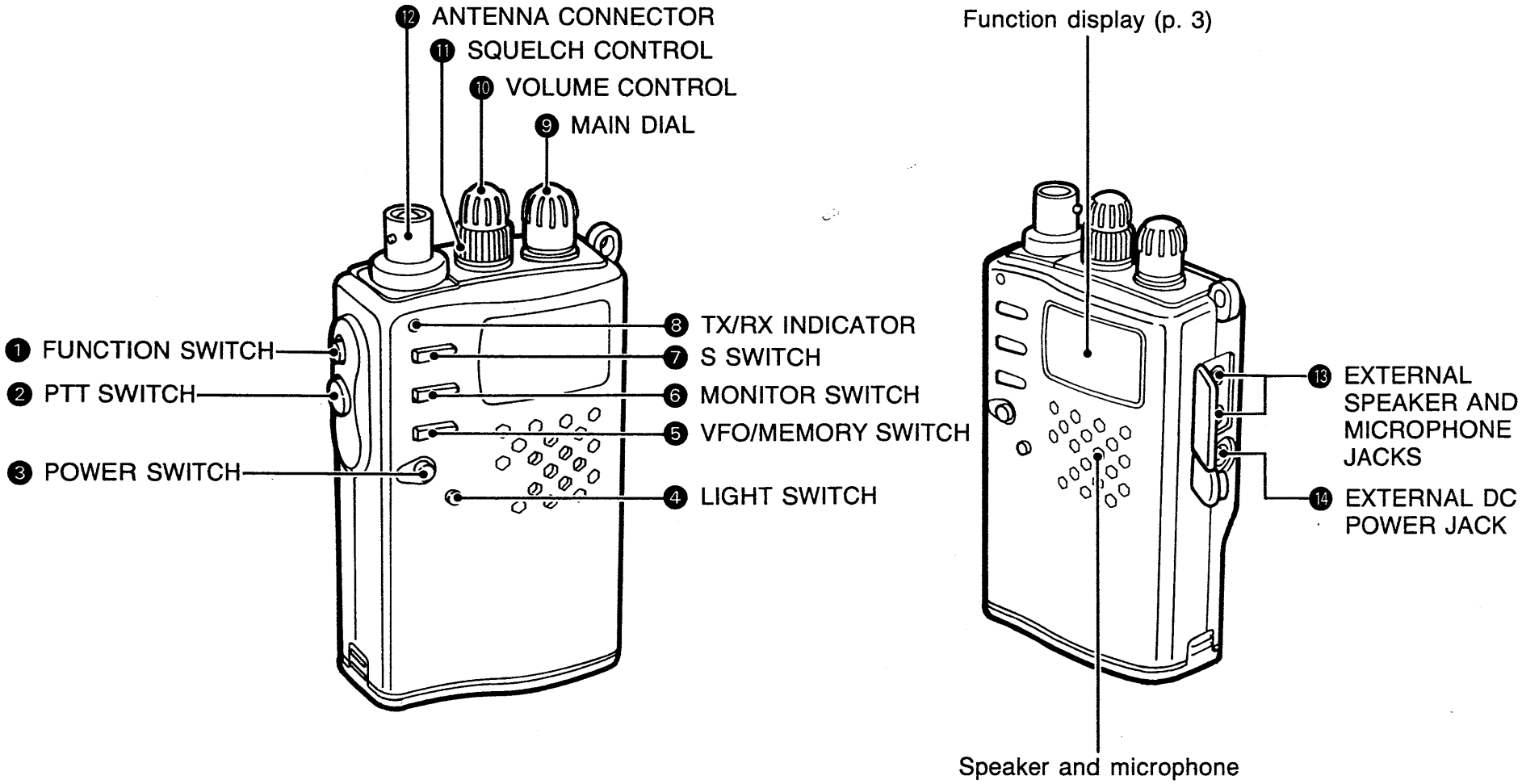
1 PANEL DESCRIPTION

■ Panel description



❶ FUNCTION SWITCH [FUNC]
While pushing this switch, other switches and the main dial perform secondary functions.
- "Push [FUNC] + [LIGHT]" means "while pushing the [FUNC] switch, push the [LIGHT] switch."

❷ PTT SWITCH [PTT] (p. 10)
Push and hold to transmit; release to receive.
Selects high or low output powers while pushing [FUNC].

❸ POWER SWITCH [POWER] (p. ii)
Turns power ON and OFF when pushed for 1 sec.

❹ LIGHT SWITCH [LIGHT] (p. 9)
Turns the LCD lighting ON and OFF.
Turns the lock function ON and OFF while pushing [FUNC].

❺ VFO/MEMORY SWITCH [V/M MW]
Changes the mode, VFO and MEMORY. (p. 8)
Programs the displayed frequency into a memory channel while pushing [FUNC] in VFO mode. (pgs. 11, 12)
Transfers a programmed frequency to VFO while pushing [FUNC] in MEMORY mode. (p. 12)

❻ MONITOR SWITCH [MONI]
Manually opens the squelch and monitors the transmit frequency. (p. 10)
Alters the dial select tuning step while pushing [FUNC]. (p. 9)

❼ S SWITCH [S] (pgs. 13, 14)
Starts and stops scanning.
Enters the clock setting condition while pushing [FUNC].

❽ TX/RX INDICATOR
Lights up in green while the squelch is open. Lights up in red while transmitting.

❾ MAIN DIAL [DIAL] (pgs. 8, 9)
Selects operating frequency, memory channel etc.

❿ VOLUME CONTROL [VOL] (p. 10)
Adjusts the audio output level.

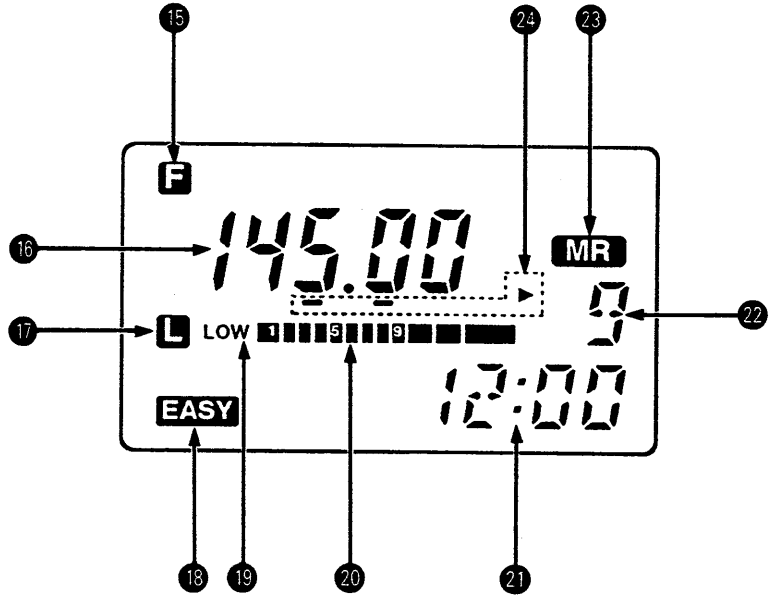
⓫ SQUELCH CONTROL [SQL] (p. 10)
Varies the squelch threshold point for noise mute.

⓬ ANTENNA CONNECTOR (p. 7)
Connects the supplied antenna.

⓭ EXTERNAL SPEAKER AND MICROPHONE JACKS [MIC]/[SP]
Connect an optional speaker-microphone or headset, if desired. The internal speaker and microphone will not function when either is connected.

⓮ EXTERNAL DC POWER JACK [DC12.5V] (pgs. 5, 6)
Connects the supplied wall charger for charging the battery pack.
Allows operation with a 12.5 V DC power source using the optional cables, CP-13L or OPC-288L.

■ Function display



⑮ FUNCTION INDICATOR
Appears while the [FUNC] switch is pushed.

⑯ FREQUENCY READOUT
Shows the operating frequency.

⑰ LOCK INDICATOR (p. 9)
Appears while the lock function is activated.

⑱ EASY MODE INDICATOR
Constantly displayed during regular use of the transceiver.

⑲ LOW POWER INDICATOR (p. 10)
Appears while low output power is selected.

⑳ S/RF INDICATOR (p. 10)
Shows the relative signal strength while receiving.
Shows the selected output power while transmitting.

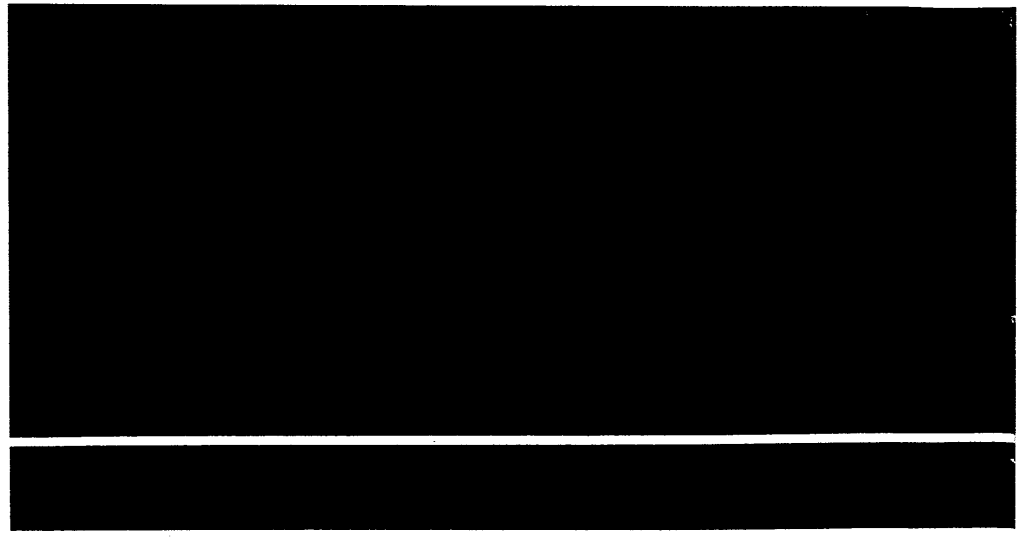
㉑ CLOCK INDICATOR (p. 14)
Shows the time.

㉒ MEMORY CHANNEL READOUT (p. 11)
Indicates a memory channel number or scan edge channel number.

㉓ MEMORY MODE INDICATOR (p. 8)
Appears while MEMORY mode is selected.

㉔ DIAL SELECT TUNING INDICATORS (p. 9)
One indicator appears while the [FUNC] switch is pushed.
It shows the selected dial select tuning step.

Count on us!



A-5212S-1EX
Printed in Japan

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