

ICOM

INSTRUCTION MANUAL

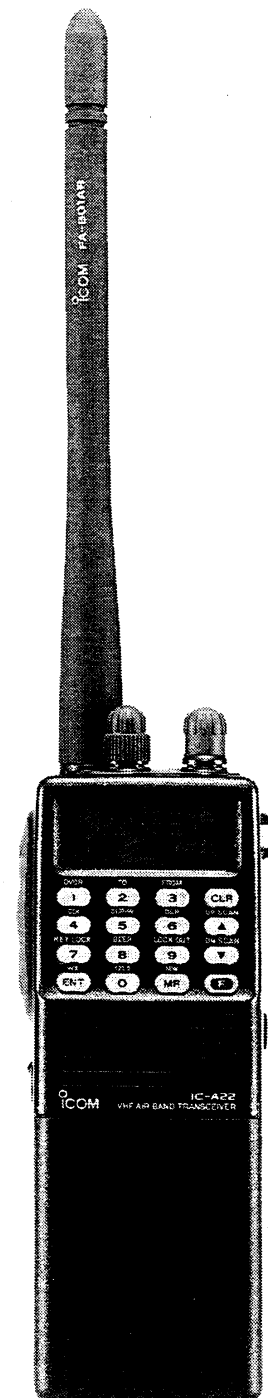
VHF AIR BAND TRANSCEIVER

IC-A22

IC-A22E

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Icom Inc.



The IC-A22 and IC-A22E VOR functions are supplemental aids to navigation only and are not intended to be a substitute for accurate VOR equipments.

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-A22 and IC-A22E.

EXPLICIT DEFINITIONS

WORD	DEFINITION
CAUTION	Equipment damage may occur.
NOTE	If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.

CAUTIONS

12 V ONLY! NEVER connect the transceiver to a 24 V socket or to an AC outlet. More than 15 V DC will damage the transceiver.

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 ($+14^{\circ}\text{F}$) or above $+50^{\circ}\text{C}$ ($+122^{\circ}\text{F}$).

BE CAREFUL! When transmitting for a long time, the rear panel will become hot.

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

UNPLUG the external DC plug immediately when "OVER V" is displayed as shown at right, indicating more than approx. 18 V DC is connected.

OVER V

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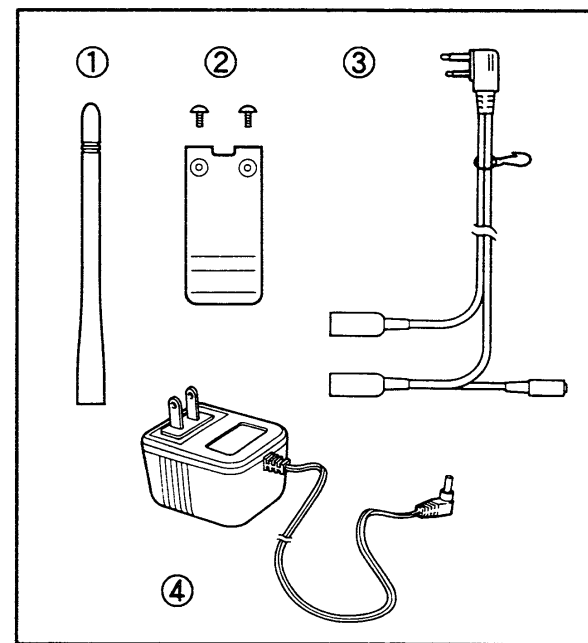
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UNPACKING



- Included accessories:**
- | | Qty. |
|---|-------------|
| ① Antenna (FA-B01AR) | 1 |
| ② Belt clip and screws | 1 set |
| ③ Headset adapter cable (OPC-499)* | 1 |
| ④ Wall charger* | 1 |
| • Ni-Cd battery pack* (CM-166)
(attached to the transceiver) | 1 |
| • Carrying case (LC-122)* | 1 |
| • Charger adapter cable (OPC-507)* | 1 |

* Not included with some versions.

1

PANEL DESCRIPTION

■ Front and side panels

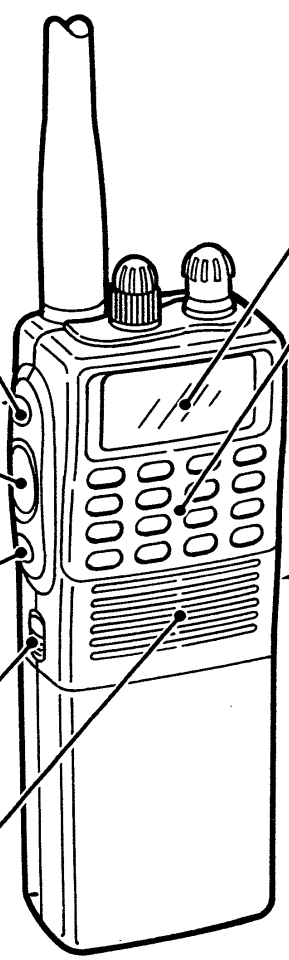
ANL SWITCH [ANL] (p. 13)
Activates the automatic noise limiter function.
• The function reduces pulse noise such as ignition noise.

PTT SWITCH [PTT] (p. 13)
Push and hold to transmit; release to receive.

LIGHT SWITCH [LIGHT] (p. 13)
Turns the display and keypad lighting ON and OFF.

BATTERY PACK RELEASE BUTTON
Opens the latch for battery pack removal when pushed upwards. (p. 9)

SPEAKER AND MICROPHONE



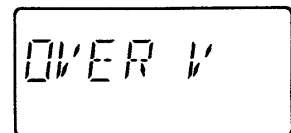
FUNCTION DISPLAY (p. 5)

KEYPAD (p. 3)

EXTERNAL DC POWER JACK [DC 12V] (p. 9)
Allows operation with a 12 V DC power source using the optional cables, CP-17L or OPC-515L.

NOTE: Operation with an external DC power source simultaneously charges the battery pack. This may cause battery overcharging and shorten the life of the battery pack.

CAUTION: When the following indication appears, unplug the connector from this jack. More than approx. 18 V DC has been connected, so the transceiver may need checking at a service center.

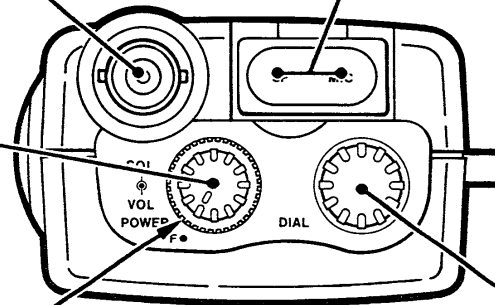


■ Top panel

ANTENNA CONNECTOR (p. 10)
Connects the supplied antenna.

VOLUME CONTROL [VOL] (p. 13)
Turns the power ON and OFF, and adjusts the audio level.

SQUELCH CONTROL [SQL] (p. 13)
Varies the squelch threshold point for noise mute.



EXTERNAL SPEAKER AND MICROPHONE JACKS [SP]/[MIC]

Connect a headset of the David Clark Co. via the OPC-499, if desired. The transmit voice can be monitored from the headset. The internal speaker will not function when connected. Note that previous headset adapters, the HS-61 and HS-20SB, cannot be used.

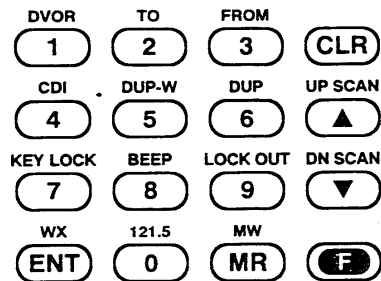
TUNING DIAL [DIAL]

- Sets an operating frequency, memory channel, weather channel* or duplex frequency.*
- Sets the 1 MHz digit after pushing [F] in frequency mode.
- Functions as an omni bearing selector (changes course indicator) in CDI mode.

* Weather channel and duplex function: U.S.A. version only.

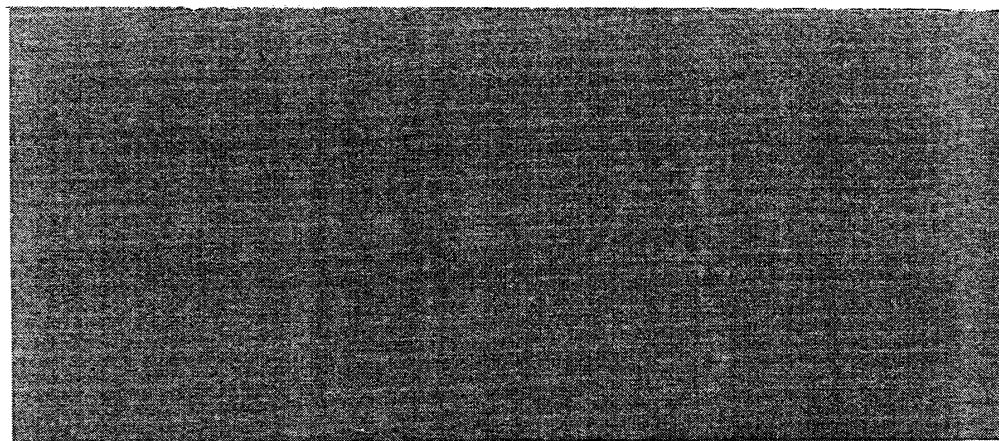
1 PANEL DESCRIPTION

Keypad



KEY	FUNCTION	SECONDARY FUNCTION (After pushing [F])
DVOR 1	- Sets the desired frequency or channel. (pgs. 11, 12, 14) - Selects the desired character for memory channel comments while programming a memory channel. (p. 15) - Inputs the degrees of the desired course in CDI mode. (p. 21)	Selects the DVOR display from the CDI display in NAV band. (p. 19)
TO 2		- Changes the course indicator characteristics to "TO" flag in the DVOR display in NAV band. (p. 19) - Corrects the deviation while using "TO" flag. (p. 23)
FROM 3		- Changes the course indicator characteristics to "FROM" flag in the DVOR display in NAV band. (p. 19) - Corrects the deviation while using "FROM" flag. (p. 23)
CDI 4		Selects the CDI display from the DVOR display in NAV band. (p. 19)
DUP-W 5		Sets the duplex frequency* in NAV band. (p. 25)
DUP 6		Turns the duplex function* ON and OFF in NAV band. (p. 25)
KEY LOCK 7		Turns the lock function ON and OFF. (p. 12)
BEEP 8		Turns the beep tone ON and OFF. (p. 13)
LOCK OUT 9		Sets the displayed memory or weather* channel as a lockout channel. (p. 18)
121.5 0		Selects the 121.5 MHz emergency frequency. (p. 11)

Count on us!



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