ICOM

INSTRUCTION MANUAL

VHF AIR BAND TRANSCEIVER

IC-A110

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.

FOREWORD

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important operating instructions for the IC-A110.

EXPLICIT DEFINITIONS

The explicit definitions below apply to this instruction manual.

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

CAUTIONS

⚠ **WARNING! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use.

NEVER connect the transceiver to an AC outlet or to a power source of more than 27 V DC. Such a connection will damage the transceiver.

NEVER connect the transceiver to a power source that is DC fused at more than 5 A. Accidental reverse connection will be protected by this fuse, higher fuse values will not give any protection against such accidents and the transceiver will be ruined.

DO NOT operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

DO NOT connect the transceiver to a power source using reverse polarity. This connection will not only blow fuses but also may damage the transceiver.

DO NOT place unit in a non-secure place to avoid inadvertent use by children.

DO NOT push the PTT when not actually desiring to transmit.

AVOID using or placing the transceiver in direct sunlight or in areas with temperatures below –30°C (–22°F) or above +60°C (+140°F).

AVOID placing the transceiver in excessively dusty environments.

AVOID placing the transceiver against walls. This will obstruct heat dissipation.

AVOID the use of chemical agents such as benzine or alcohol when cleaning, as they damage the transceiver surfaces.
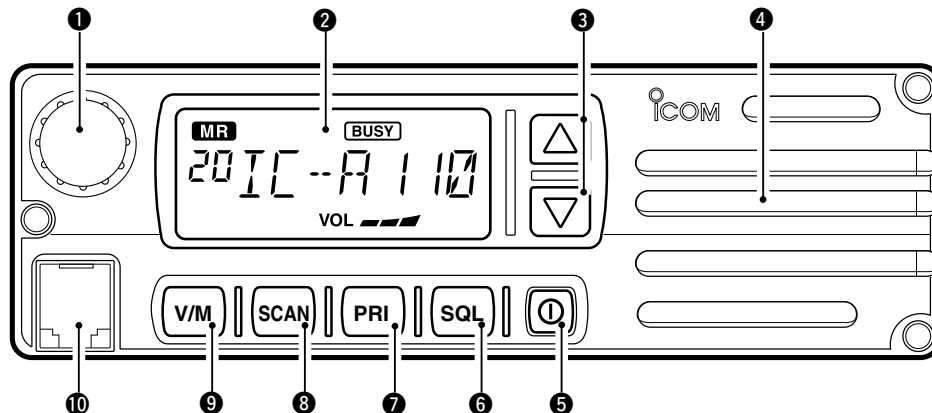
BE CAREFUL! The transceiver will become hot when operating continuously for long periods.

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1 PANEL DESCRIPTION

■ Panel description

❶ TUNING [DIAL(TS)]
➥ Changes the operating frequency; memory channel in memory mode; set mode contents in set mode, etc.
➥ Push to toggle the dimmer control OFF, Low and High.
➥ Push and hold for 1 sec. to select the Tuning Step [TS]; 1 MHz or 10 kHz are available. (p. 5)

❷ FUNCTION DISPLAY (p. 3)
Displays the operating frequency, memory channel name, etc.

❸ VOLUME UP [▲] DOWN [▼] KEY
Adjusts the audio output level.

❹ LOUD SPEAKER
Front mounted loud speaker.

❺ POWER SWITCH [POWER]
Push and hold 500 m sec. to turn the power ON and OFF.
➥ The following functions are available at power ON as options:
 • Initial set mode (p. 10)
 • Cloning mode (p. 14)

➏ SQL SWITCH [SQL]
➥ Push to turn on the squelch adjust mode. (p. 6)
➥ Push and hold this switch for 1 sec. to turn ON/OFF the both internal and external speaker output. (p. 4)

➐ PRIORITY SWITCH [PRI]
Push to select priority channel. (p. 11)
•"Pr" appears on the display.

➑ SCAN SWITCH [SCAN]
➥ Starts and stops the scan function:
•VFO mode: VFO scan function.
•Memory mode: Memory channel scan function. (p. 6)
➥ Push and hold this switch for 5 sec. to set the displayed channel as a memory lock-out channel. (p. 8)
•"LOCK OUT" appears on the display.

➒ VFO/MEMORY SWITCH [V/M]/[MW]
➥ Push to toggle the VFO mode or the Memory mode. (p. 4)
•"▥▣" and memory channel number appear when memory mode is selected.
• The transceiver has 99 memory channels.
➥When VFO mode is selected;
•Push and hold this switch for 5 sec. to program the VFO frequency to memory channel. (p. 8)
➥When Memory mode is selected;
•Push and hold this switch for 5 sec. to turn the "Memory name write mode" ON.

➓ MICROPHONE CONNECTOR
Connects the supplied microphone or optional.
NEVER connect other microphones. The pin assignments may be different and the transceiver may be damaged.

MICROPHONE
The supplied microphone has a PTT switch and a cradle. The following functions are available when the microphone is taken off from the hook or put back on hook:
➥ Automatic scan starts when putting on hook. (p. 7)
➥ Automatic scan stops when taken off hook. (p. 7)

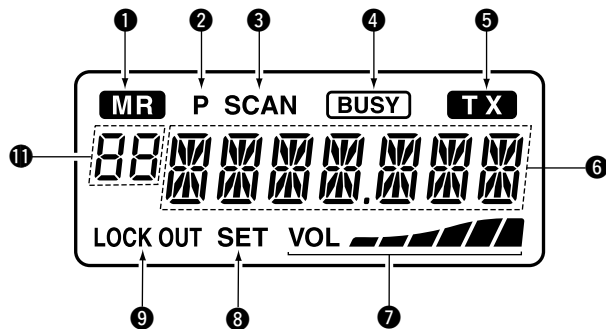**NOTE:** Optional functions vary with transceiver version. In this manual, optional functions are indicated by " OPTION " Icon.
Please contact your dealer for details.

■ **Function display**

❶MEMORY MODE INDICATOR (p. 5)
Appears when memory mode is selected.

❷DUALWATCH INDICATOR (p. 7)
Indicates when the dualwatch function is activated.

❸SCAN INDICATOR (p. 8)
Indicates when the scan function is selected.

❹BUSY INDICATOR (p. 6)
"BUSY" appears when receiving a signal or when the squelch is open. (p. 6)

❺ TX INDICATOR (p. 5)
Appears while transmitting.

❻ FREQUENCY DISPLAY (p. 11)
➟Shows the operating frequency.
➟Shows the channel name when the memory name function is selected. (p. 10)

❼ VOLUME LEVEL INDICATORS
➟Shows the AF volume level(while receiving).

❽ SET MODE INDICATOR
➟Appears when the Initial set mode is selected. (p. 12)

❾ LOCK OUT INDICATOR
➟Appears when the channel is set as a 'LOCK OUT' channel. (p. 8)

❿ MEMORY CHANNEL INDICATOR
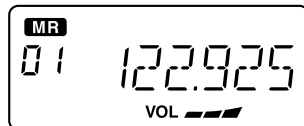➟Indicates the selected memory channel number
➟'Pr' appears when the priority channel is selected.

OPTION

*NOTE: The VFO/memory switch [V/M] and the memory write switch [M/W] functions may not be available depending on version.

■ Power ON

① Push [POWER] to turn power ON.

```
MR
01    122.925
              VOL ▬▬◢
```

② Operate the transceiver as indicated in the following sections.

③ Select the desired memory channel (or VFO frequency) with the [V/M] keys.
- When receiving a signal, **BUSY** appears and audio is emitted from the speaker.
- Further adjustment of audio level may be necessary at this point.
- Push [SQL] to adjust the squelch level. (p. 6)
- Push and hold the tuning dial for 1 sec. to select the [TS], each push increments/decrements to the frequency are either 10 kHz or 1 MHz. (p. 7)

④ Push and hold [PTT] to transmit, then speak into the microphone.
- Transmit indicator **T X** lights.

⑤ Release [PTT] to receive.

■ Channel selection

◇ VFO/Memory selection

① Push [V/M] to select memory mode or VFO mode.
➡ Rotate the dial to select a desired frequency/channel.

```
126.825
        VOL ▬▬◢
```

② During memory mode operation, push the [V/M] key to transfer the memory contents to VFO.
- Push [V/M] to select VFO mode.

```
MR
06    126.835
              VOL ▬▬◢
```
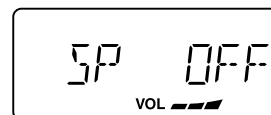
NOTE: Only frequency data is transferred even if the memory channel has a memory name.

◇ External speaker output control

External speaker output can be turned OFF, if desired.
① Push and hold [SQL] for 1 sec.
② Rotate the dial to select "SP OFF".
③ Push [SQL] to turn to the previous mode.

NOTE: This function available for both internal and external speakers.

```
SP    OFF
              VOL ▬▬◢
```

Count on us!

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