

ICOM

INSTRUCTION MANUAL

WIDEBAND RECEIVER

IC-R7100



Icom Inc.

IMPORTANT

READ THIS INSTRUCTION MANUAL CAREFULLY before attempting to operate the receiver.

SAVE THIS INSTRUCTION MANUAL. This instruction manual contains important safety and operating instructions for the IC-R7100.

EXPLICIT DEFINITIONS

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

PRECAUTIONS

⚠ DISCONNECT the AC power cable from the receiver, and wait for a few minutes before performing AC fuse replacement or any internal work.

⚠ NEVER apply AC voltage that exceeds the suggested voltage for each version. This could cause a fire or ruin the receiver.

⚠ NEVER use non-rated fuses. Non-rated fuses could cause a fire or ruin the receiver.

⚠ NEVER let metal, wire or other objects touch any internal parts.

⚠ NEVER expose the receiver to rain, snow or any liquids.

⚠ NEVER allow children to touch the receiver.

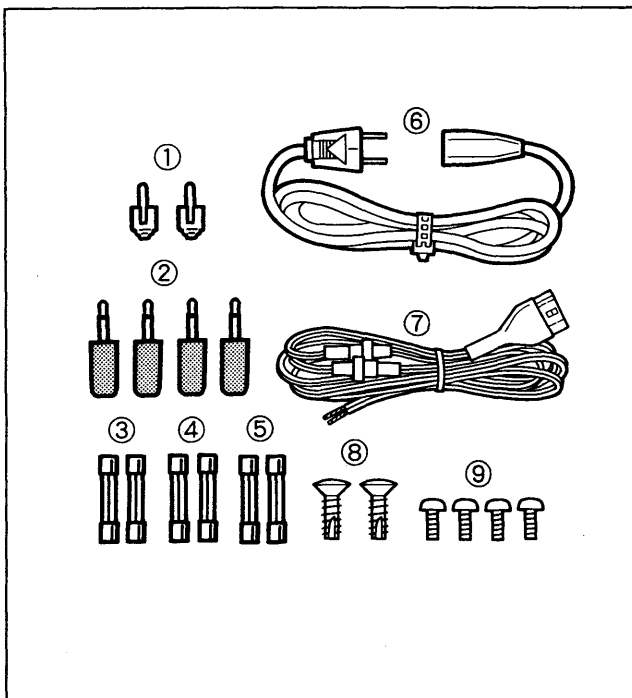
AVOID using or placing the receiver in areas with temperatures below -10°C ($+14^{\circ}\text{F}$) or above $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$).

AVOID placing the receiver in excessively dusty environments or in direct sunlight.

AVOID placing the receiver against walls or putting anything on top of the receiver. This will obstruct heat dissipation.

RESPECT other peoples privacy. Information overhead but not intended for you cannot lawfully be used in any way.

UNPACKING



Accessories included with the IC-R7100: Qty.

① RCA plugs	2
② Mini plugs (3.5 ^o)	4
③ Spare fuses for DC power cable (FGB 3 A)* ¹	2
④ Spare fuses for AC power input* ²	2
⑤ Spare fuses for regulator circuit (FGB 2 A)	2
⑥ AC power cable* ³	1
⑦ DC power cable (OPC-023C)* ¹	1
⑧ 4 × 12 mm self-tapping screws* ⁴	2
⑨ 3 × 6 mm self-tapping screws* ⁴	4

*¹ Except for AC type Germany version

*² AC type : FGB 1 A (U.S.A., U.S.A.-1 versions)
FGB 0.5 A (Europe, France, Australia versions)
FGMT4 0.5 A (Germany version)

*³ AC type : OPC-034 (U.S.A., U.S.A.-1 versions)
OPC-492 (Europe, Germany, France versions)
OPC-085 (Australia version)

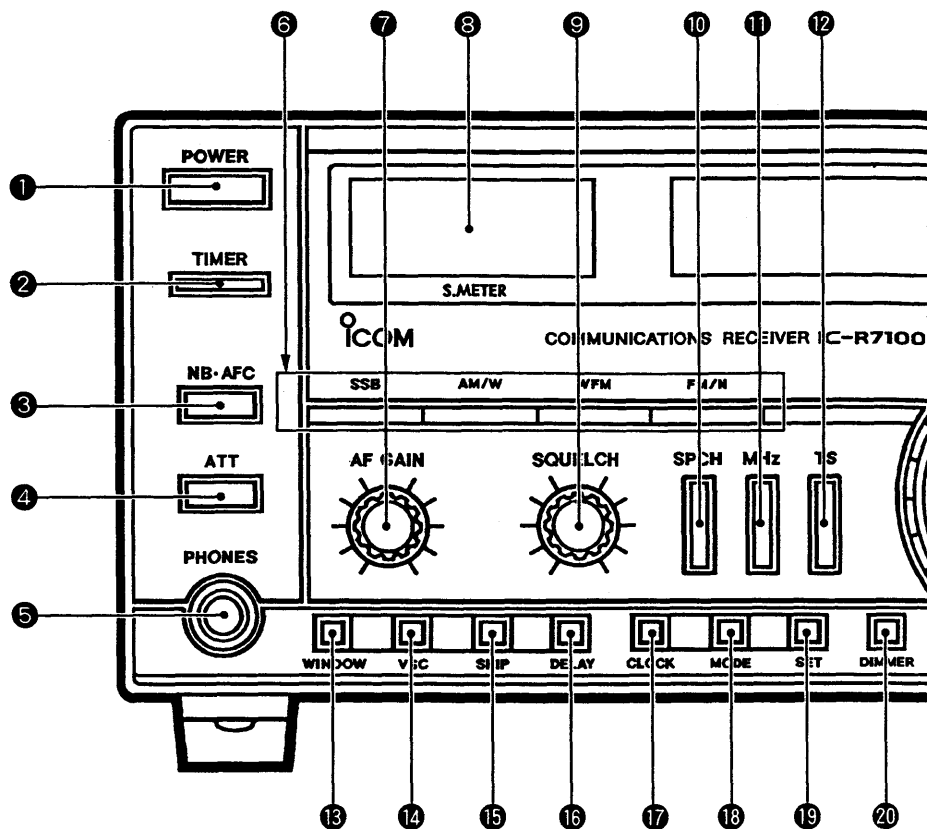
*⁴ For optional MB-23 installation.

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1 CONTROL FUNCTIONS

Front panel



① POWER SWITCH [POWER]
Turns the power ON and OFF.

② TIMER SWITCH [TIMER] (p. 32)
Activates the timer function.

③ NOISE BLANKER/AFC SWITCH [NB-AFC]
(p. 14)
- Activates the noise blanker circuit in SSB (LSB, USB) and AM (or AM-W) modes.
• "NB" appears.
- Activates the automatic frequency control function in FM (or FM-N) and WFM mode.
• "AFC" appears.

④ ATTENUATOR SWITCH [ATT] (p. 14)
Activates the RF attenuator function.

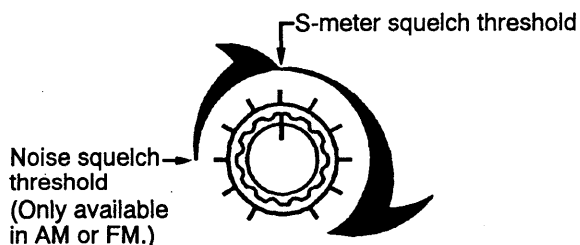
⑤ HEADPHONE JACK [PHONES]
Accepts a headphone connection.
• Headphones with 4 ~ 16 Ω impedance can be used.
• When headphones are connected, the internal speaker does not function.

⑥ MODE SWITCHES (p. 14)
Select the desired receiving mode.
• The selected mode is indicated.

⑦ AF GAIN CONTROL [AF GAIN] (p. 13)
Varies the audio output level.
• The audio level of the beep is automatically shifted depending on the value of the audio output level.

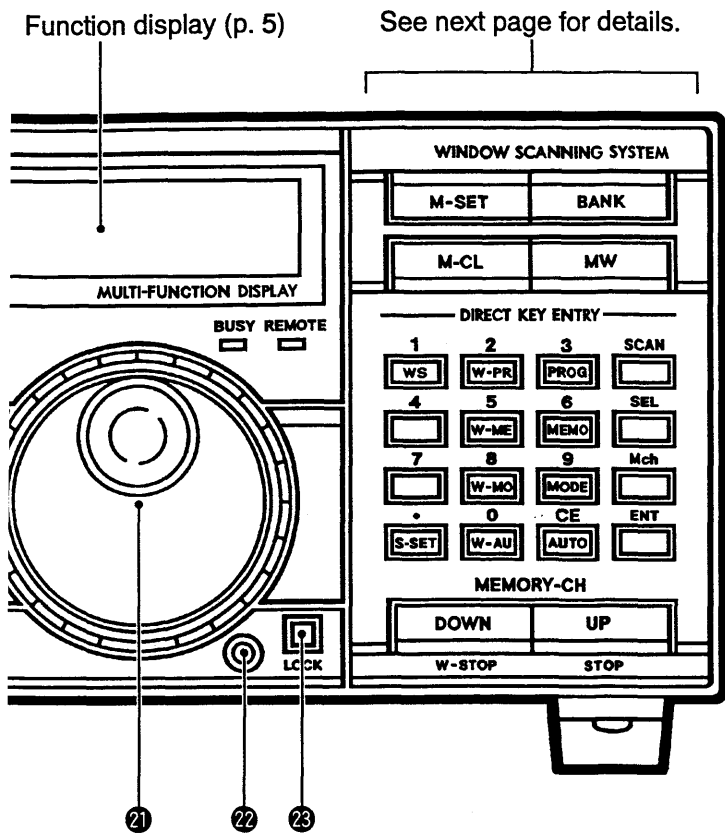
⑧ S-METER [S.METER]
- Shows the strength of the receiving signal.
- Shows the S-meter squelch threshold level.

⑨ SQUELCH CONTROL [SQUELCH] (p. 13)
Varies the squelch threshold level.



⑩ SPEECH SWITCH [SPCH]
Announces the displayed frequencies in English or Japanese when an optional UT-36 VOICE SYNTHESIZER UNIT is installed.

⑪ MHz TUNING STEP SWITCH [MHz] (p. 11)
Sets the tuning step of the main dial in MHz steps.
• "▼" appears on the MHz digit.

**12 TUNING STEP SWITCH [TS]** (p. 11)

Selects the tuning step of the main dial.

- 100 Hz, 1 kHz, 5 kHz, 10 kHz, 12.5 kHz, 20 kHz, 25 kHz, and 100 kHz tuning steps are available.

13 WINDOW SWITCH [WINDOW] (p. 18)

Changes the window.

14 VSC SWITCH [VSC] (p. 21)

Activates the voice scan control function.

- "VSC" appears when the function is activated.

15 SKIP SWITCH [SKIP] (p. 21)

Turns the skip function ON and OFF for scanning.

- "SKIP" appears when the function is activated.
- When this function is activated, skip channels or skip frequencies are skipped during scan operation.

16 DELAY SWITCH [DELAY] (p. 22)

Selects a scan resume condition.

- "▲" indicates the selected scan resume condition.

17 CLOCK SWITCH [CLOCK] (p. 29)

Selects the clock and timer mode.

18 CLOCK MODE SWITCH [MODE] (p. 29)

Selects the clock or one of the timers in the clock and timer mode.

19 CLOCK SET SWITCH [SET] (p. 29)

- Sets the timers and clock time.

- Turns the selected timer condition ON or OFF.

- Selects the clock and timer setting condition when pushing the switch for 2 sec.

20 DIMMER SWITCH [DIMMER]

Changes the brightness of the function display backlighting and of the meter backlighting.

21 MAIN DIAL

- Changes the operating frequency and memory channel number.

- Changes the time of the clock and timers.

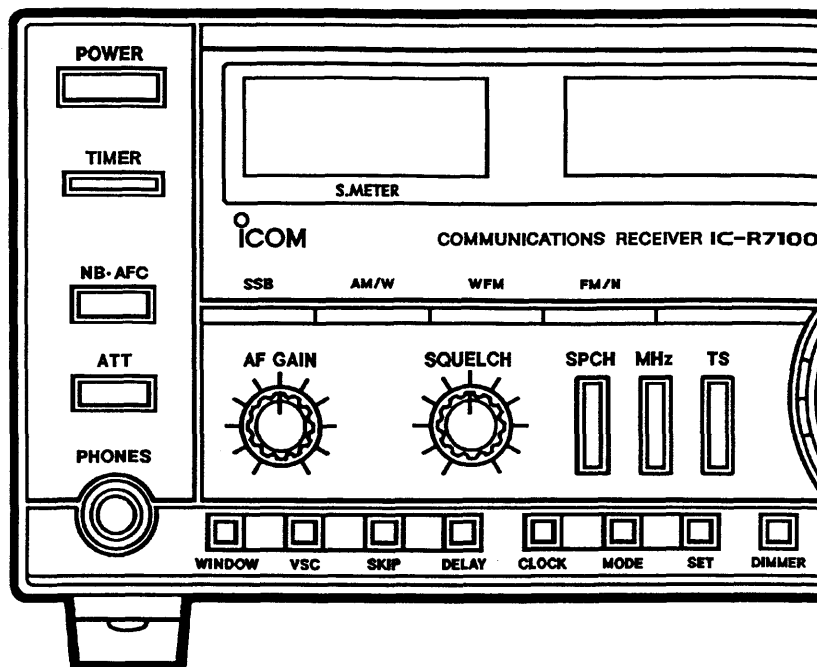
22 BRAKE ADJUSTMENT SCREW (p. 35)

Adjusts the main dial tension.

23 DIAL LOCK SWITCH [LOCK] (p. 14)

Locks the main dial electronically.

1 CONTROL FUNCTIONS



24 BUSY INDICATOR [BUSY]

Lights up in green when the squelch is open.

25 REMOTE INDICATOR [REMOTE]

Lights up in red while controlling AF gain using the CI-V system.

- The indicator goes off when the [AF GAIN] control is rotated.

26 MEMORY CONTENTS CLEAR SWITCH [M-CL] (p. 18)

Clears the contents from the displayed memory channel when pushing the switch for 2 sec.

27 MEMORY CHANNEL NUMBER SET SWITCH [M-SET] (p. 18)

Hold the contents on the function display while this switch is pushed.

- While pushing this switch, the memory channel number can be changed with the main dial, [UP]/[DOWN] switches or the keyboard.
- To store the contents after changing the memory channel number, push and hold [MW].

28 BANK SWITCH [BANK] (p. 16)

- Selects a bank of memory channels.
 - The hundreds' digit changes in the channel number display.
- Designates a bank when holding the switch for 2 sec.
 - "BANK" appears.
 - Only memory channels in the designated bank can be selected in this condition.

29 MEMORY WRITE SWITCH [MW] (p. 17)

Stores the displayed frequency, mode and tuning step in the displayed memory channel when pushing the switch for 2 sec.

30 MEMORY CHANNEL DOWN SWITCH [DOWN] (W-STOP) (p. 16)

- Changes the memory channel number downward.
- Stops advanced scans and the window scan.

31 MEMORY CHANNEL UP SWITCH [UP](STOP) (p. 16)

- Changes the memory channel number upward.
- Stops all basic scans except for window scan.

Count on us!

