ICOM

INSTRUCTION MANUAL

HF/50 MHz ALL MODE TRANSCEIVER

IC-726

Icom Inc.

CAUTIONS

(1) Before using the IC-726, read all instructions carefully and completely.

(2) **SAVE THIS INSTRUCTION MANUAL** – This instruction manual contains important safety and operating instructions for the IC-726.

(3) **NEVER** connect the DC power cable to an AC outlet. This will ruin the transceiver.

(4) **NEVER** apply more than 16 V DC to the DC POWER SOCKET on the transceiver rear panel. Check the power source voltage before connecting the power cable.

(5) **NEVER** allow children to touch the transceiver during operation.

(6) **NEVER** expose the transceiver to rain, snow or any liquid.

(7) **AVOID** using or storing the transceiver in temperatures below −10°C (+14°F) or over +60°C (+140°F).

OPERATING CAUTIONS

(1) In any mobile operation, **DO NOT** operate the transceiver without running the vehicle's engine. The vehicle's battery will quickly run out if the transceiver power is ON while your vehicle's engine is OFF.

(2) In maritime mobile operation, keep interconnection cables as far away as possible from electronic instruments to prevent instrument malfunctions.

(3) **BE CAREFUL!** If the transceiver is not securely mounted with bolts and nuts, personal injury or transceiver damage could occur due to braking, wave shock, vibrations, etc.

(4) **AVOID** using the transceiver in excessively dusty environments.

(5) **AVOID** placing the transceiver in direct sunlight.

(6) **BE CAREFUL!** The heatsink may become hot when operating the transceiver continuously for long periods.

(7) Transmitting without an antenna may damage the transceiver.

INTRODUCTION

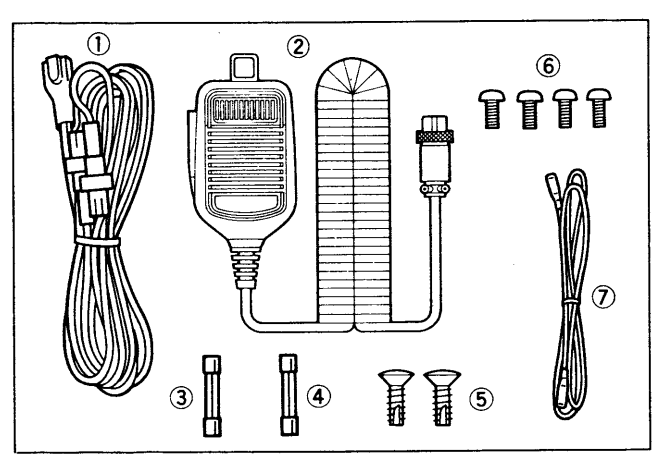
Icom's new IC-726 HF/50 MHz ALL MODE TRANSCEIVER is designed to meet the increasing demand of today's amateur radio users for transceivers with fewer controls and switches, especially for hands-free mobile operation from HF through 50 MHz bands.

The IC-726 has the following advanced features:

- Icom DDS (Direct Digital Synthesizer)
- 26 user-programmable memory channels
- 3 scan types
- Selectable tuning rate in 10, 20 or 50 Hz steps
- Band stacking register capability
- 10 dB preamplifier
- 20 dB attenuator

To thoroughly understand the capabilities of your new IC-726, please read this manual carefully before attempting operation. If you have any questions regarding the operation of the IC-726, feel free to contact your nearest authorized Icom Delaer or Service Center.

UNPACKING



Accessories included with the IC-726:	Qty.
① DC power cable (OPC-025A)	1
② Hand microphone (HM-12)	1
③ Spare fuse (20 A)	1
④ Spare fuse (4 A)	1
⑤ Screws B1 4 x 12 CR (for optional MB-23 installation)	2
⑥ Screws C0 3 x 6 (for optional MB-23 installation)	4
⑦ Jumper wire	1

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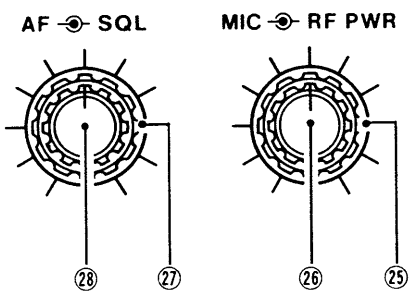
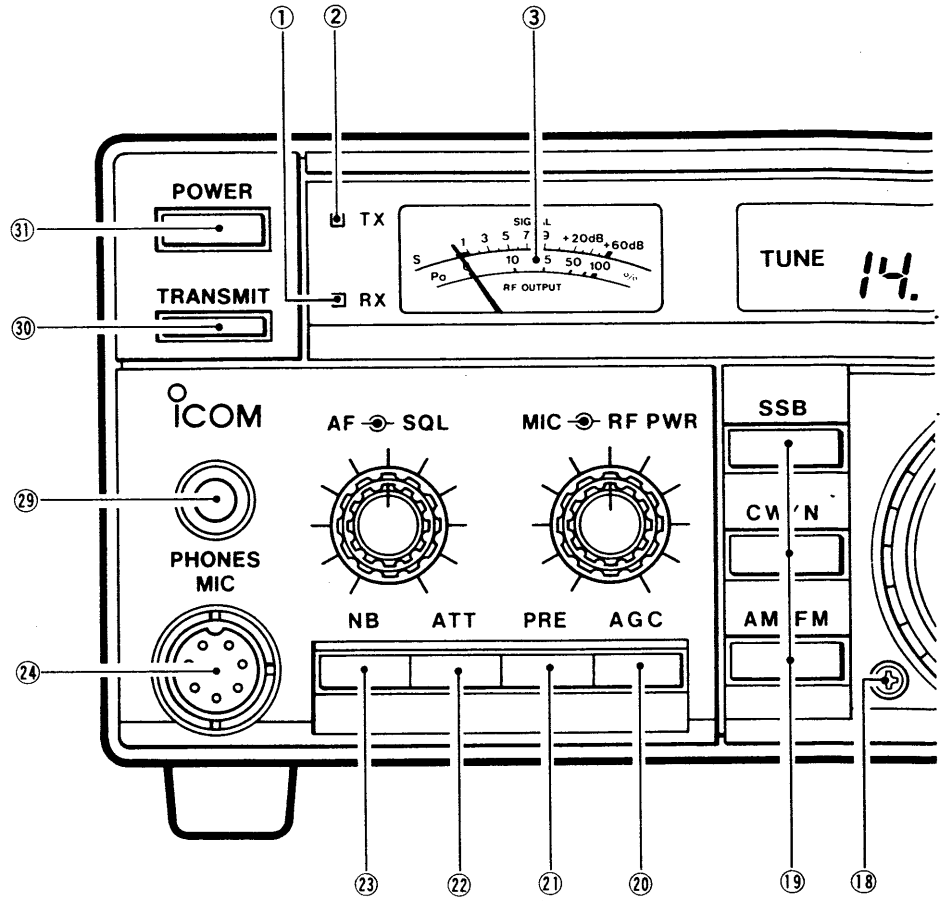
Tech Talk from Icom

1 CONTROL FUNCTIONS

1-1 FRONT PANEL





① **RECEIVE INDICATOR**
Indicates that the squelch is open.

② **TRANSMIT/ALC INDICATOR (p. 16)**
Lights when the transceiver is transmitting.

③ **METER**
Shows the strength of a received signal and relative output power while transmitting.

④ **VFO SWITCH [VFO] (pgs. 14, 22)**
Selects VFO A or VFO B for tuning purposes.

⑤ **SPLIT SWITCH [SPLIT] (p. 21)**
Selects split operation.

⑥ **MEMORY CHANNEL UP/DOWN SWITCHES [UP] [DOWN] (p. 22)**
Changes memory channels.

⑦ **MEMORY WRITE SWITCH [MW] (p. 22)**
Stores the displayed frequency and mode into the displayed memory channel.

⑧ **MEMORY READ SWITCH [MEMO] (p. 22)**
Selects MEMORY CHANNEL mode.

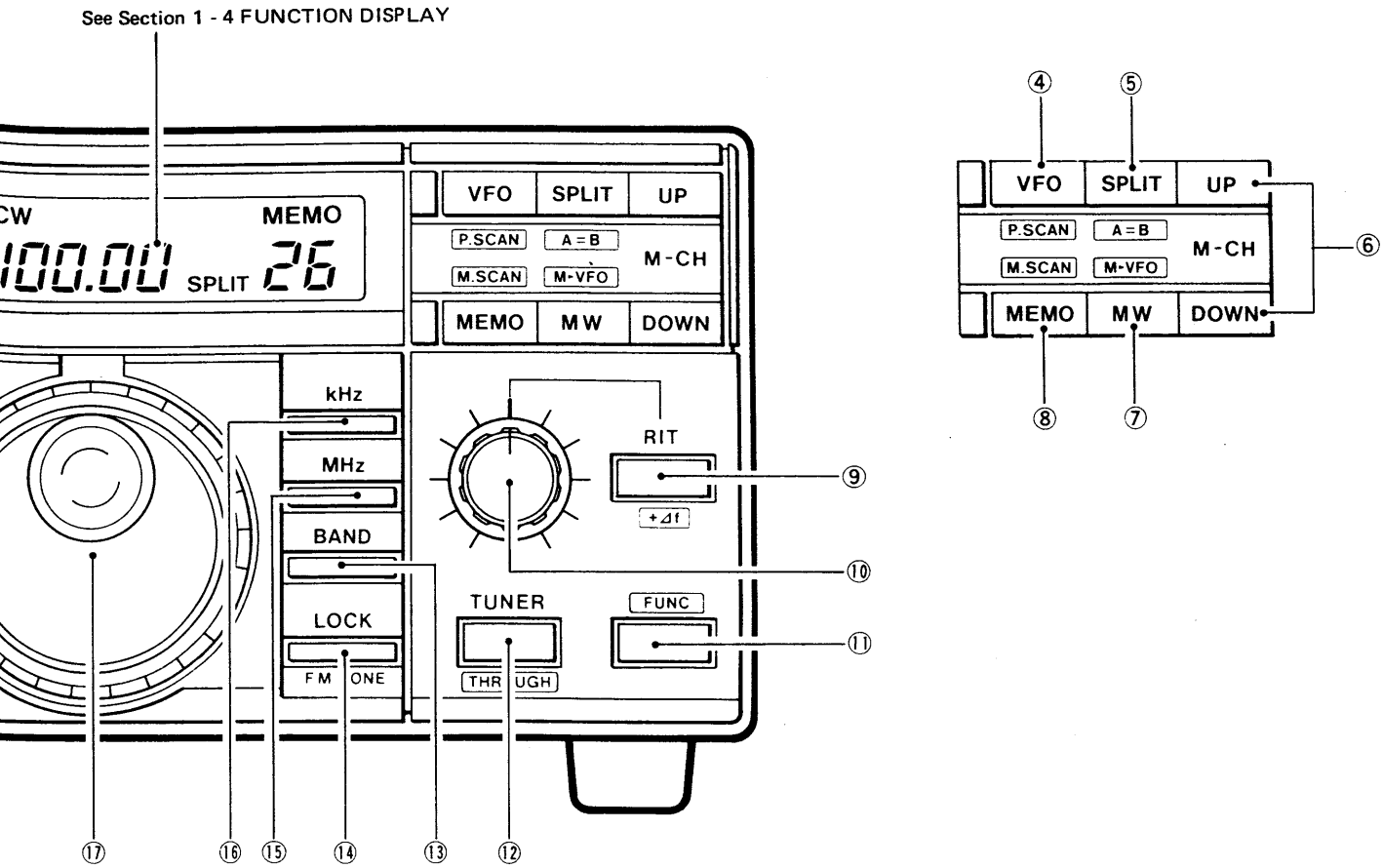
⑨ **RIT SWITCH [RIT] (pgs. 15, 21)**
Turns ON and OFF the RIT circuit.

⑩ **RIT CONTROL (pgs. 15, 21)**
Shifts the receive frequency when the RIT function is ON.

⑪ **FUNCTION SWITCH [FUNC]**
Activates the secondary switch functions.

SWITCH	FUNCTION
[FUNC] + [VFO]	Activates programmed scan. (p. 23)
[FUNC] + [SPLIT]	Equalizes the frequency and mode of operation of the two VFOs.
[FUNC] + [MEMO]	Activates memory scan. (p. 23)
[FUNC] + [MW]	Activates the frequency transfer function. (p. 22)
[FUNC] + [RIT]	Adds the RIT shift frequency to the displayed frequency. (p. 21)
[FUNC] + [TUNER]	Bypasses the AH-3 HF AUTOMATIC ANTENNA TUNER (optional). (p. 10)
[FUNC] + [kHz]	Changes the tuning step. (p. 14)
[FUNC] + [BAND]	Turns ON and OFF the 10 Hz digit on the frequency display. (p. 14)
[FUNC] +[LOCK] +[MEMO]	Activates the mode selected memory scan. (p. 23)
[FUNC] +[AM/FM]	Turns ON and OFF the auto tuning step function. (p. 14)

⑫ **ANTENNA TUNER SWITCH [TUNER] (p. 10)**
Tunes the AH-3 AUTOMATIC ANTENNA TUNER (optional).



⑬ **BAND SWITCH [BAND] (p. 13)**
Allows the MAIN DIAL to select bands only.

⑭ **DIAL LOCK SWITCH [LOCK]**
Deactivates the MAIN DIAL and transmits a subaudible tone signal in FM mode.

⑮ **MHz TUNING RATE SWITCH [MHz] (p. 14)**
Sets the tuning steps at 1 MHz.

⑯ **kHz TUNING RATE SWITCH [kHz] (p. 14)**
Sets the tuning rate for 1 kHz steps.

⑰ **MAIN DIAL**
Changes the displayed frequency.

⑱ **BRAKE ADJUSTMENT SCREW (p. 27)**
Adjusts MAIN DIAL tension.

⑲ **MODE SWITCHES (pgs. 17 ~ 20)**
Selects the desired operating mode.

⑳ **AGC SWITCH [AGC] (p. 15)**
Changes the time constant of the AGC circuit.

㉑ **PREAMP SWITCH [PRE] (p. 15)**
Activates the built-in 10 dB gain RF preamplifier.

㉒ **ATTENUATOR SWITCH [ATT] (p. 15)**
Activates the 20 dB attenuator.

㉓ **NOISE BLANKER SWITCH [NB] (p. 15)**
Activates the noise blanker circuit.

㉔ **MIC CONNECTOR [MIC] (p. 10)**
Accepts Icom hand or desk microphones. Refer to Section 13 OPTIONS.

㉕ **RF POWER CONTROL [RF PWR] (p. 16)**
Adjusts RF output power.

㉖ **MIC GAIN CONTROL [MIC] (p. 16)**
Adjusts microphone input gain.

㉗ **SQUELCH CONTROL [SQL] (p. 15)**
Adjusts the squelch threshold level.

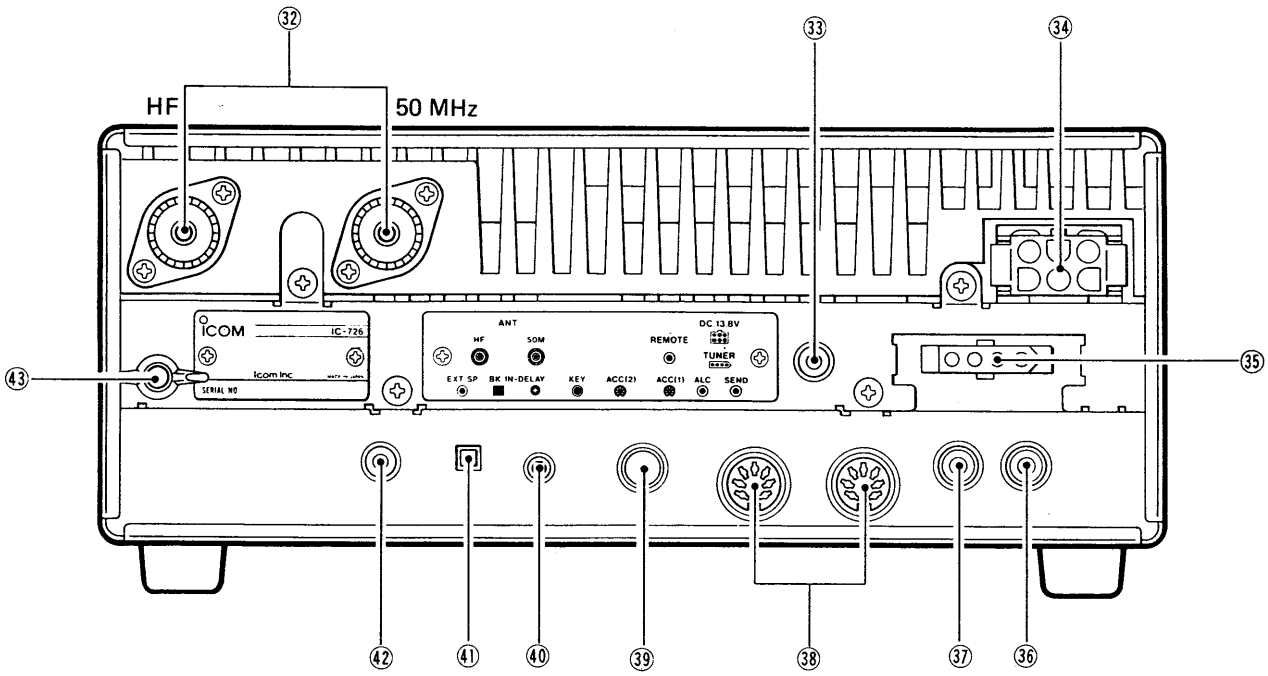
㉘ **AF GAIN CONTROL [AF] (p. 15)**
Adjusts audio output level.

㉙ **HEADPHONES JACK [PHONE]**
Accepts a standard 1/4 inch plug from 4 ~ 16 Ω mono or stereo headphones.

㉚ **TRANSMIT/RECEIVE SWITCH [TRANSMIT]**
Selects transmit or receive.

㉛ **POWER SWITCH [POWER]**
Turns the power ON and OFF.

1-2 REAR PANEL



㉜ ANTENNA CONNECTORS (pgs. 5, 6)
Connect a 50 Ω antenna with a PL-259 plug to each connector.

㉝ CI-V REMOTE CONTROL JACK (p. 12)
Designed for use with a personal computer for remote operation of transceiver functions.

㉞ DC POWER SOCKET (p. 7)
Accepts 13.8 V DC using the supplied DC cable.

㉟ TUNER CONTROL SOCKET (p. 9)
Accepts the optional AH-3 HF AUTOMATIC ANTENNA TUNER control cable.

㊱ SEND CONTROL JACK (p. 8)
Goes to ground when transmitting.

㊲ ALC INPUT JACK (p. 8)
Connects to the ALC output jack of a non-Icom linear amplifier.

㊳ ACCESSORY SOCKETS (p. 11)
Input and output connections for external equipment.

㊴ CW KEY JACK (pgs. 6, 18)
Accepts a straight key or electronic keyer with a standard 1/4 inch 3-conductor plug.

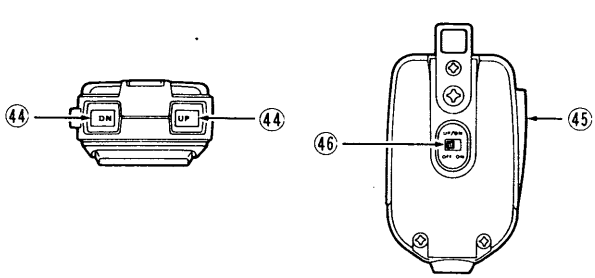
㊵ CW BREAK-IN DELAY CONTROL (p. 18)
Adjusts the transmit-to-receive switching delay time for CW semi break-in operation.

㊶ CW SEMI BREAK-IN SWITCH (p. 18)
Turns ON and OFF the CW semi break-in operation.

㊷ EXTERNAL SPEAKER JACK (p. 6)
Connect a 4 ~ 16 Ω speaker here, if required.

㊸ GROUND TERMINAL (pgs. 5, 6)
To prevent electrical shocks, TVI, BCI and other problems, connect this terminal to ground.

1-3 MICROPHONE (HM-12)



㊹ UP/DOWN SWITCHES
Changes the operating frequency or memory channel. Push and hold either of these switches to change the frequency or memory channel continuously.

㊺ PTT SWITCH
Push to transmit.

㊻ UP/DOWN ON/OFF SWITCH
Prevents accidental changes of the [UP] and [DN] switches.

Count on us!

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