ICOM

BASIC MANUAL

HF ALL BAND TRANSCEIVER

IC-718



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

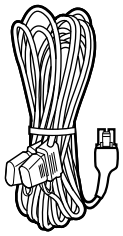
Icom Inc.

Thank you for choosing this Icom product. This product was designed and built with Icom's state of the art technology and craftsmanship. With proper care, this product should provide you with years of trouble-free operation.

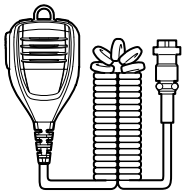
IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.
SAVE THIS INSTRUCTION MANUAL— This instruction manual contains basic operating instructions for the IC-718.

SUPPLIED ACCESSORIES



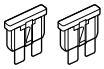
DC power cable
(3 m: 9.8 ft)



Microphone



Spare fuse (BFLP 58 V 5 A)
Internal fuse



Spare fuses (ATQ 32 V 25 A)
for the DC power cable

ⓘ Some accessories are not supplied, or the shape is different, depending on the transceiver version.

About weld lines
This product's surfaces may have streaks called "weld lines," that occur during the molding process, and are not cracks or flaws.

Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:

- Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, or other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

EXPLICIT DEFINITIONS

WORD	DEFINITION
⚠ **DANGER!**	Personal death, serious injury or an explosion may occur.
⚠ **WARNING!**	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	Recommended for optimum use. No risk of personal injury, fire or electric shock.

PRECAUTIONS

⚠ **DANGER HIGH VOLTAGE! NEVER** touch an antenna or antenna connector while transmitting. This could cause an electrical shock or burn.

⚠ **DANGER! NEVER** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere. This could cause an explosion and death.

⚠ **DANGER! NEVER** place the transceiver where air bag deployment may be obstructed during mobile operations.

⚠ **WARNING RF EXPOSURE!** This transceiver emits Radio Frequency (RF) energy. Extreme caution should be observed when operating this transceiver. If you have any questions regarding RF exposure and safety standards, please refer to the Federal Communications Commission Office of Engineering and Technology's report on Evaluating Compliance with FCC Guidelines for Human Radio Frequency Electromagnetic Fields (OET Bulletin 65).

⚠ **WARNING! NEVER** operate the transceiver with earphones or other audio accessories at high volume levels. The continuous high volume operation may cause a ringing in your ears. If you experience ringing, reduce the volume level or discontinue use.

⚠ **WARNING! NEVER** apply AC power to the [DC 13.8 V] socket on the transceiver rear panel. This could cause a fire or damage the transceiver.

⚠ **WARNING! NEVER** apply more than 16 V DC to the [DC 13.8 V] socket on the transceiver rear panel. This could cause a fire or damage the transceiver.

⚠ **WARNING! NEVER** reverse the DC power cable polarity. This could cause a fire or damage the transceiver.

⚠ **WARNING! NEVER** remove the fuse holder on the DC power cable. Excessive current caused by a short could cause a fire or damage the transceiver.

⚠ **WARNING! NEVER** let metal, wire, or other objects contact the transceiver inside or make incorrect contact with connectors on the rear panel. This could cause an electric shock or damage the transceiver.

⚠ **WARNING! NEVER** operate or touch the transceiver with wet hands. This could cause an electric shock or damage the transceiver.

⚠ **WARNING! NEVER** operate the equipment if you notice an abnormal odor, sound, or smoke. Immediately turn OFF the power and/or remove the DC power cable. Contact your Icom dealer or distributor for advice.

⚠ **WARNING! NEVER** operate the transceiver during a lightning storm. It may result in an electric shock, cause a fire or damage the transceiver. Always disconnect the power source and antenna before a storm.

⚠ **WARNING! NEVER** place the transceiver where the vehicle's normal operation may be hindered or where it could cause bodily injury.

⚠ **WARNING! NEVER** put the transceiver in an unstable place where the transceiver may suddenly move or fall. This could cause an injury or damage the transceiver.

CAUTION: DO NOT operate the transceiver while driving a vehicle. Safe driving requires your full attention—anything less may result in an accident.

CAUTION: DO NOT expose the transceiver to rain, snow or any liquids. They could damage the transceiver.

CAUTION: DO NOT change the internal settings of the transceiver. This may reduce transceiver performance and/or damage to the transceiver. The transceiver warranty does not cover any problems caused by unauthorized internal adjustments.

CAUTION: DO NOT install or place the transceiver in a place without adequate ventilation, or block any cooling vents on the top, rear, sides or bottom of the transceiver. Heat dissipation may be reduced and damage the transceiver.

CAUTION: DO NOT use harsh solvents such as benzine or alcohol to clean the transceiver, as they will damage the transceiver's surfaces. If the transceiver becomes dusty or dirty, wipe it clean with a soft, dry cloth.

CAUTION: DO NOT leave the transceiver in areas with temperatures below –10°C (+14°F) or above +60°C (+140°F), or in areas subject to direct sunlight, such as the dashboard.

CAUTION: DO NOT place the transceiver in excessively dusty environments. This could damage the transceiver.

BE CAREFUL! The transceiver may become hot after continuously transmitting for long periods of time.

CAUTION: DO NOT set the transceiver's RF output power to more than a connected linear amplifier's maximum input level. Otherwise, the linear amplifier will be damaged.

CAUTION: DO NOT use non-Icom microphones. Other microphones have different pin assignments, and may damage the transceiver.

NEVER place the transceiver in an insecure place to avoid inadvertent use by unauthorized persons.

During mobile operation, **NEVER** place the transceiver where hot or cold air blows directly onto it.

CAUTION: DO NOT operate the transceiver without running the vehicle's engine. The vehicle's battery will quickly run out when the transceiver is used while the vehicle's engine is OFF.

CAUTION: DO NOT start the vehicle engine when the transceiver's power is ON. Ignition voltage spikes can damage the transceiver.

NOTE: During maritime mobile operations, keep the transceiver and microphone as far away as possible from the magnetic navigation compass to prevent erroneous indications.

Operate the transceiver that complies with your local laws and regulations.

Depending on countries and/or regions, transceiver's output power and/or operations on specific frequencies may be restricted to avoid interferences with existing radio stations or services.

ABOUT SPURIOUS SIGNALS

Spurious signals may be received near the following frequencies. These are made in the internal circuit and does not indicate a transceiver malfunction:

- 1.9564 MHz
- 3.8394 MHz
- 3.9135 MHz
- 7.6795 MHz
- 11.2187 MHz
- 11.5188 MHz
- 12.2874 MHz
- 15.3594 MHz
- 19.6601 MHz
- 24.5752 MHz
- 29.4904 MHz

FCC INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations.

◇ Supplier's Declaration of Conformity

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- **Responsible Party**
  Company Name: Icom America Inc.
  Address: 12421 Willows Road NE, Kirkland, WA 98034
- **U.S. Contact Information**
  800-USA-ICOM (800-872-4266)
  Monday – Friday 7 AM to 5 PM PST

For Canada:
This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada (ISED)'s licence exempt RSS(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

DISPOSAL



The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.

ABOUT CE AND DOC

Hereby, Icom Inc. declares that the versions of IC-718 which have the "CE" symbol on the product, comply with the essential requirements of the Radio Equipment Directive, 2014/53/EU, and the restriction of the use of certain hazardous substances in electrical and electronic equipment Directive, 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address:
https://www.icomjapan.com/support/

ABOUT UKCA DOC

To obtain the UKCA Declaration of Conformity, please contact Icom UK Limited by email at info@icomuk.co.uk or alternatively call + 44(0) 1227 741741.

ABOUT THE MANUALS

You can use the following manuals to understand and operate this transceiver. (As of April 2026)

TIP: You can download each manual and guide from the Icom website.
https://www.icomjapan.com/support/
Enter “IC-718” into the Search box in the site.

- **Basic manual (This manual)**
  Instructions for basic operations.

- **Advanced manual (PDF type)**
  Instructions for advanced operations in English. This manual also includes the control commands used in remote control operation (serial communication with CI-V.)

For Reference

- **HAM Radio Terms (PDF type)**
  A glossary of HAM radio terms in English.

To read the manuals or Guide, Adobe® Acrobat® Reader® is required. If you have not installed it, please download the Adobe® Acrobat® Reader® and install it to your PC. You can download it from Adobe Systems Incorporated’s website.

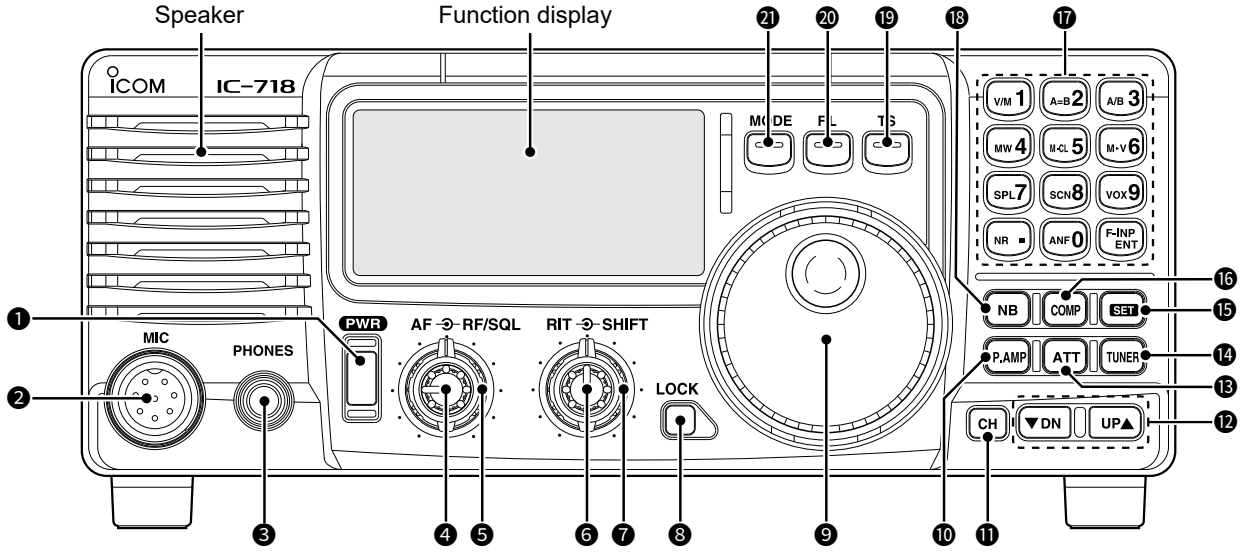
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1 PANEL DESCRIPTION

Front panel



❶ POWER SWITCH [PWR]
- Push to turn ON the transceiver.
  ⓘ Confirm the external DC power supply is ON.
- Hold down for 1 second to turn OFF.
- While holding down [SET], push [PWR] to enter the Initial Set mode. (p. 18)

❷ MICROPHONE CONNECTOR [MIC] (p. 3)
Connect the supplied or an optional microphone.

❸ HEADPHONE JACK [PHONES]
Connects to standard stereo headphones. (8 Ω)
ⓘ When headphones are connected, the internal or external speaker does not function.

❹ AF CONTROL [AF] (Inner control) (p. 7)
Rotate to adjust the audio output level.

❺ RF GAIN/SQUELCH CONTROL [RF/SQL] (Outer control) (pp. 10, 20)
Rotate to adjust the squelch threshold level.

❻ RIT CONTROLS [RIT] (Inner control) (p. 11)
Rotate to shift the receive frequency without changing the transmit frequency. Rotate clockwise to increase the frequency or counterclockwise to decrease.

❼ IF SHIFT CONTROLS [SHIFT] (Outer control) (p. 12)
Rotate to shift the center frequency of the receiver's IF passband. Rotate clockwise to shift the center frequency higher or counterclockwise to shift it lower.

❽ LOCK SWITCH [LOCK] (p. 9)
- Push to turn the Dial Lock function ON or OFF.
  ⓘ The Dial Lock function electronically locks the [MAIN DIAL].
- Hold down for 1 second to announce the S-meter value, operating frequency, and operating mode.

❾ MAIN DIAL [MAIN DIAL]
- Rotate to change the operating frequency.
- Selects an option in the Quick/Initial set mode, and so on.

❿ PREAMP SWITCH [P.AMP] (p. 11)
Push to turn the preamp ON or OFF.

⓫ CH SWITCH [CH] (p. 16)
Push to turn the Memory Channel Select function ON or OFF.

⓬ MEMORY CHANNEL (BAND) UP/DOWN SWITCHES [▼DN]/[UP▲] (pp. 8, 16, 18)
- Push to select a band.
- Push several times to select a Memory channel while "MEMO" is blinking.
- Push to select an item in the Quick/Initial Set mode.

⓭ ATTENUATOR SWITCH [ATT] (p. 11)
Push to turn the 20 dB Attenuator function ON or OFF.

Front panel

⓮ TUNER SWITCH [TUNER] (p. 20)
- Push to turn the Automatic Antenna Tuner function ON or OFF.
- Hold down for 1 second to manually start the tuner.

ⓘ An optional antenna tuner must be connected.

⓯ SET SWITCH [SET]
- Hold down for 1 second to enter the Quick Set mode. (p. 18)
- While holding down [SET], push [PWR] to enter the Initial Set mode. (p. 18)
- Push to select the Meter function. (p. 10)

⓰ MIC COMPRESSOR SWITCH [COMP] (p. 15)
Toggles the Microphone Compressor function ON or OFF.

⓱ KEYPAD (p. 9)
Used for direct frequency input, selecting Memory channel or secondary functions.
See the table to the right for the secondary functions of each key.

⓲ NOISE BLANKER SWITCH [NB] (p. 11)
- Push to turn the Noise Blanker ON or OFF.
- Hold down [NB] for 1 second to enter the Noise Blanker Level Setting mode.

⓳ QUICK TUNING STEP SWITCH [TS] (p. 9)
- Selects a Quick Tuning step or turns OFF the Quick Tuning step.
  - While the Quick Tuning icon "▼" is displayed, Changes the operating frequency in kHz steps.
- While the Quick Tuning step is OFF, hold down for 1 second to turn the 1 Hz step ON or OFF.
- While the kHz Quick Tuning step is selected, hold down for 1 second to enter the Tuning Step Set mode.

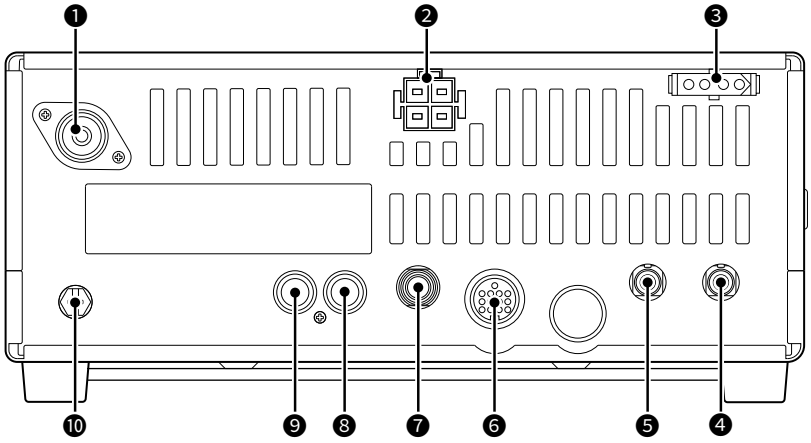
⓴ FILTER SWITCH [FIL] (p. 13)
Push to select the preset normal, wide or narrow IF filters for the selected operating mode.

㉑ MODE SWITCH [MODE] (p. 8)
Push to select an operating mode.
- In the SSB mode, holding down [MODE] for 1 second toggles between LSB and USB.
- In the CW mode, holding down [MODE] for 1 second toggles between CW and CW Reverse.
- In the RTTY mode, holding down [MODE] for 1 second toggles between RTTY and RTTY Reverse.

The secondary functions for the numeric keys

No./ Secondary function		Description
1	V/M	**VFO/MEMORY** (pp. 8, 16) Push to toggle the operating mode between the VFO mode and the Memory mode.
2	A=B	**VFO EQUALIZATION** (p. 8) Push to equalize the VFO frequency and operating mode to the other VFO settings.
3	A/B	**VFO SELECT** (p. 8) • In the VFO mode, push to toggle between VFO A and B. • When the Split Frequency function is ON, push to toggle between the transmit and the receive frequency.
4	MW	**MEMORY WRITE** (p. 16) Hold down for 1 second to enter the current frequency and operating mode into the selected Memory channel.
5	M=CL	**MEMORY CLEAR** (PDF) In the Memory mode, hold down for 1 second to clear the selected Memory channel content. • "Blank" is displayed above the Memory channel number.
6	M•V	**MEMORY ► VFO** (p. 16) Hold down for 1 second to copy the memory content to the VFO.
7	SPL	**SPLIT** (p. 14) Push to turn the Split Frequency function ON or OFF.
8	SCN	**SCAN** (p. 17) • In the VFO mode, push to Start or stop the Programmed Scan. • In the Memory mode, push to start or stop the Memory Scan.
9	VOX	**VOX** (p. 15) Push to turn the VOX function ON or OFF.
0	ANF	**AUTOMATIC NOTCH FILTER** (p. 14) In the SSB and AM modes, push to turn the Automatic Notch Filter function ON or OFF.
.	NR	**NOISE REDUCTION** (p. 14) • Push to turn the Noise Reduction function ON or OFF. This function can be used in all modes. • Hold down for 1 second to enter the Noise Reduction Level Set mode.
ENT	F-INP	**FREQUENCY INPUT** (p. 9) • Push to enter the Direct Frequency Input mode. • In the Memory mode, after pushing [CH], push to enter the Direct Memory Number Selection modes.

Rear panel



❶ ANTENNA CONNECTOR [ANT] (p. 5)
Connects to a 50 Ω antenna with a PL-259 PLUG CONNECTOR and a 50 Ω coaxial cable.

❷ DC POWER SOCKET [DC 13.8V] (p. 6)
Connects to a 13.8 V DC source through the supplied DC power cable.

❸ TUNER CONTROL SOCKET [TUNER] (PDF)
Connects to the control cable from an optional automatic antenna tuner.

❹ CI-V REMOTE CONTROL JACK [REMOTE] (PDF)
Connects to a PC for remote controlling the transceiver.

❺ EXTERNAL SPEAKER JACK [EXT SP] (PDF)
Connects to an 8 Ω external speaker.
- When an external speaker is connected, the internal speaker is disabled.

❻ ACCESSORY SOCKET [ACC] (PDF)
Connects to external equipment such as a linear amplifier, an automatic antenna tuner, a TNC for data communications, and so on.

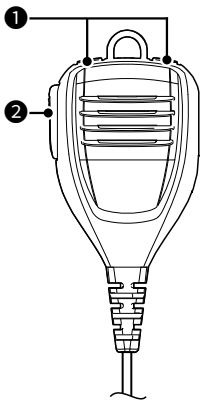
❼ ELECTRONIC KEYER JACK [KEY] (p. 20)
Accepts a key or paddle connector for the internal electronic keyer.
- You can select the keyer type between the internal electronic keyer and straight key operation in the Initial Set mode.

❽ ALC INPUT JACK [ALC]
Connects to the ALC output jack of a non-Icom linear amplifier.

❾ SEND CONTROL JACK [SEND]
Goes to ground while transmitting to control external equipment such as a liner amplifier.
- Maximum control level: 16 V DC/2 A

❿ GROUND TERMINAL [GND] (p. 5)
Connects to ground to prevent electrical shock, TVI, BCI and other problems.

Microphone



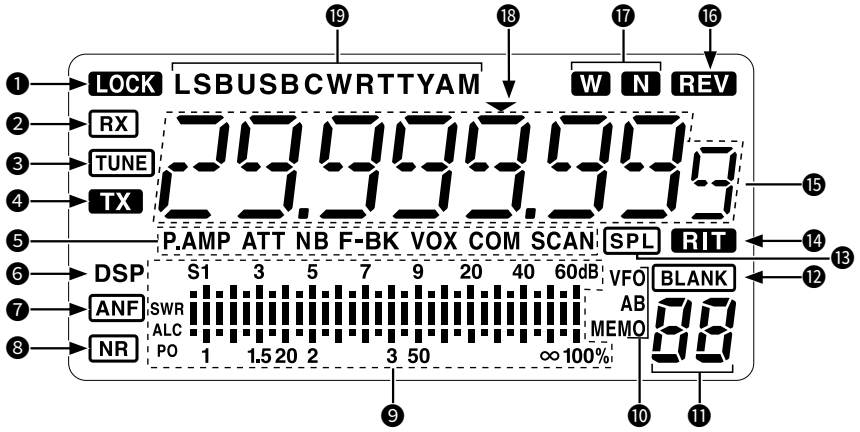
❶ UP/DOWN SWITCHES [UP]/[DN]
- Push to change the operating frequency or Memory channel.
- Holding down to continuously change the frequency or Memory channel.

ⓘ The [UP]/[DN] keys can simulate a key paddle. Set the Key Type (CW PADDLE) item in the Initial Set mode. (p. 20)

❷ PTT SWITCH
Push to transmit, release to receive.

NOTE: To maximize the readability of your signal, hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth, and then speak at your normal voice level.

Function display



❶ LOCK ICON LOCK (p. 9)
Displayed when the Dial Lock function is ON.

❷ RECEIVE ICON RX (p. 7)
Displayed while receiving a signal or when the squelch is open.

❸ TUNE ICON TUNE
Displayed when the Automatic Tuning function is ON.

❹ TRANSMIT ICON TX
Displayed while transmitting.

❺ FUNCTION ICONS
Displayed in the following conditions:

Icon	Status
P.AMP	The antenna preamplifier is ON.
ATT	The Attenuator function is ON.
NB	The Noise Blanker function is ON.
BK	The Semi Break-in function is ON.
F-BK	The Full Break-in function is selected in the CW mode.
VOX	The VOX function is ON.
COM	The Microphone Compressor function is ON in the SSB mode.
SCAN	• The Scan function is ON. • Blinks when a Scan is paused.

❻ DSP UNIT ICON "DSP"
Continuously displayed.

❼ AUTOMATIC NOTCH FILTER ICON ANF (p. 14)
Displayed when the Automatic Notch Filter function is ON.

❽ NOISE REDUCTION ICON NR (p. 14)
Displayed when the Noise Reduction function is ON.

❾ SIGNAL/SQL/RF-GAIN METER
- Displays the signal strength while receiving.
- Displays the relative output power, ALC, or SWR levels while transmitting. (p. 10)

❿ VFO/MEMORY ICON (p. 8)
- VFO A or VFO B Displayed when the VFO mode is selected.
- MEMO: Displayed when the Memory mode is selected.

⓫ MEMORY CHANNEL NUMBER READOUT (p. 16)
Displays the selected Memory channel number.

⓬ BLANK ICON BLANK (p. 16)
In the VFO and Memory modes, indicates that the selected Memory channel has no content.

⓭ SPLIT ICON SPL (p. 14)
Displayed when the Split function is ON.

⓮ RIT ICON RIT (p. 11)
Displayed when the RIT function is in use.

⓯ FREQUENCY READOUT
Displays the operating frequency.

⓰ REVERSE ICON REV (p. 8)
Displayed when the CW Reverse or RTTY Reverse mode is selected.

⓱ WIDE/NARROW FILTER ICONS (p. 13)
- W : Displayed when the wide IF filter is selected.
- N : Displayed when the narrow IF filter is selected.

⓲ QUICK TUNING STEP ICON
Displayed when you select the Quick Tuning step.

⓳ MODE ICONS (p. 8)
Displays the selected operating mode.

2 INSTALLATION AND CONNECTIONS

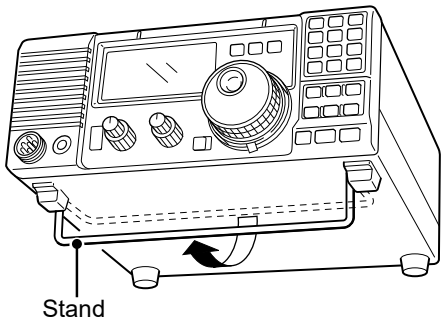
Selecting a location

Select a location for the transceiver that allows adequate air circulation, free from extreme heat, cold, or vibration, and other electromagnetic sources.

Never place the transceiver in areas such as:
- Out of the specified temperature range (–10°C ~ +60°C, +14°F ~ +140°F).
- An unstable place that slopes or vibrates.
- In direct sunlight.
- High humidity and temperature environments.
- Dusty environments.
- Noisy environments.

Using the desktop stand

The transceiver has a stand for desktop use.

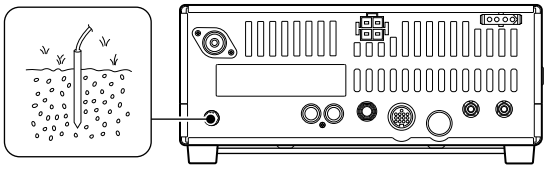


NOTE: DO NOT hold the stand, dials, or controls when you carry the transceiver. This may damage them.

Grounding

To prevent electrical shock, television interference (TVI), broadcast interference (BCI) and other problems, ground the transceiver through the GROUND terminal [GND] on the rear panel.

For best results, connect a heavy gauge wire or strap to a long ground rod. Make the distance between the [GND] terminal and ground as short as possible.

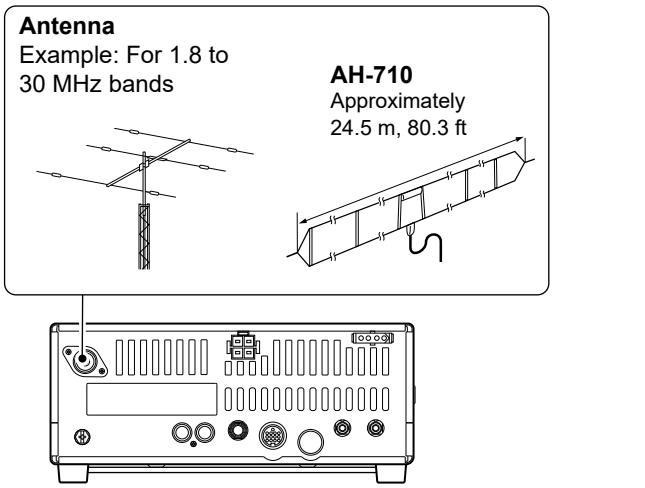


⚠ **WARNING! NEVER** connect the [GND] terminal to a gas or electric pipe, since the connection could cause an explosion or electric shock.

Connecting an antenna

For radio communications, the antenna is of critical importance, along with output power and receiver sensitivity.
Select antenna(s), such as a well-matched 50 Ω antenna, and feedline. A Voltage Standing Wave Ratio (VSWR) of 1.5:1 or less is recommended for your desired band.

NOTE: A lightening arrestor may offer some protection from static electricity.

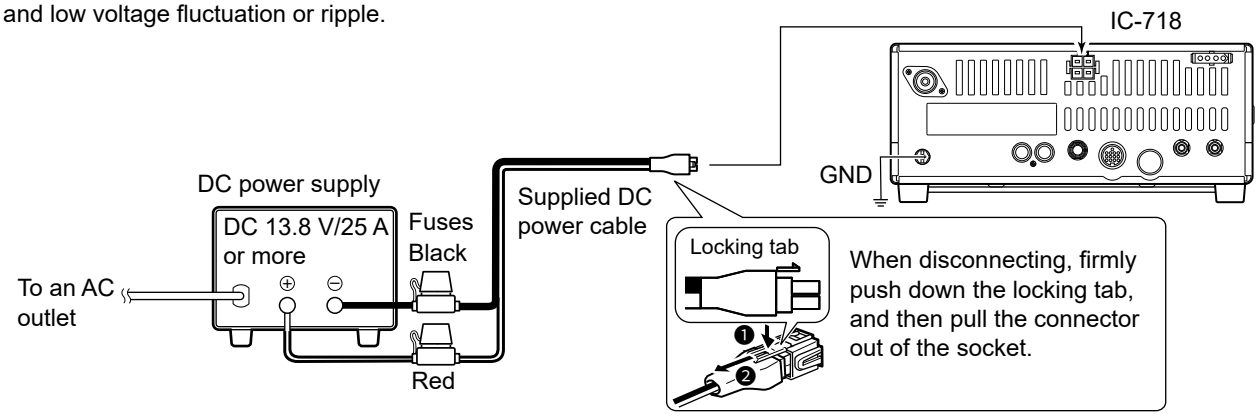


Antenna SWR
Each antenna is tuned for a specified frequency range and SWR may increase out of that range. When the SWR is higher than approximately 2.0:1, the transceiver's power drops to protect the final transistor.
In this case, an antenna tuner is helpful to match the transceiver and antenna. The IC-718 has an SWR meter to continuously monitor the antenna SWR.

Connecting an external DC power supply

Confirm that the transceiver is OFF before connecting the DC power cable.

ⓘ The transceiver needs:
- DC 13.8 V (Capacity: At least 20 Amps)
- A power supply with an over current protective line, and low voltage fluctuation or ripple.

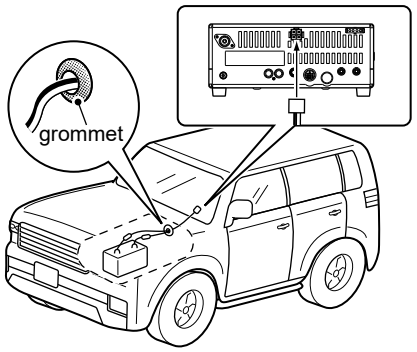


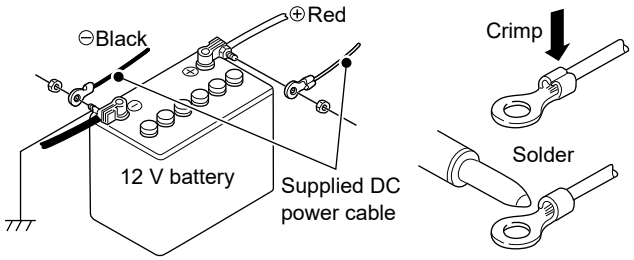
◇ When connecting to a vehicle's battery

⚠ **WARNING! NEVER** connect to a battery without using a DC fuse, otherwise a fire hazard could occur or damage to the transceiver.
- **NEVER** connect the transceiver to a 24 V battery.

NOTE:
- **DO NOT** use a cigarette lighter socket as a power source when operating in a vehicle. The plug may cause voltage drops and ignition noise may be superimposed onto transmit or receive audio.
- The transceiver may not receive well on some frequencies when installed in a hybrid vehicle, or any type of electric vehicle (fuel cell vehicle). This is because vehicle's electric components, such as the inverter system, generate a lot of electrical noise.

NOTE: Use a rubber grommet when passing the DC power cable through a metal plate to prevent a short circuit.





3 BASIC OPERATION

When first applying power

Before turning ON your transceiver for the first time, make sure all connections are correctly made.

TIP: When you turn OFF the transceiver, it memorizes the current settings. Therefore, when you turn ON the transceiver again, it restarts with the same settings.

◇ Resetting the settings

A resetting **CLEARS** all Memory channel programming and returns all Quick Set mode and Initial Set mode settings to their factory defaults.

1. Make sure the transceiver power is OFF.
2. While holding down [UP▲] and [▼DN], hold down [PWR] for 1 second to turn ON the transceiver.
   - The internal CPU is reset.
   - The transceiver displays its initial VFO frequencies when reset has been completed.
3. All the Quick Set mode and the Initial Set mode settings return to their default values. (p. 18)

NOTE: In cooler temperatures, the display may be dark and unstable after turning ON the transceiver. This is normal and does not indicate any equipment malfunction.

◇ Initializing the controls and switches

After resetting the transceiver, set the controls and switches as shown below:

- [METER]: Po
- [PWR]: OFF
- [AF]: Maximum counter clockwise
- [RF/SQL]: 12 o'clock
- [RIT]: Center
- [IF SHIFT]: Center
- [LOCK]: OFF
- [NB]: OFF
- [COMP]: OFF
- [P.AMP]: OFF
- [ATT]: OFF

Turn ON the transceiver, and then check the display. If any of the following icons is displayed, turn them OFF by operating as follows:

- Quick tuning step icon (▼): Push [TS].
- 1 Hz frequency readout: Hold down [TS] for 1 second. (When the Quick Tuning step is OFF.)
- RIT icon (RIT): Set the [RIT] control to the center position.
- Split icon (SPL): Push [SPL].

Turning power ON or OFF

- Push [PWR] to turn ON the transceiver.
- Hold down [PWR] for 1 second to turn OFF the transceiver.

Adjusting the volume level

Rotate [AF] to adjust the volume level.

Selecting the mode

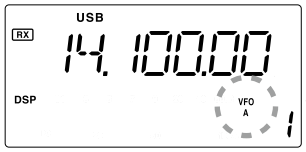
VFO mode
Set the desired frequency by rotating [MAIN DIAL], directly entering with keypad, or reading from a Memory channel with the Memory Copy function.

Memory mode
Enter contents into the desired channel in the Memory list.

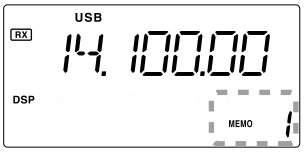
Selecting the VFO mode or Memory mode

Push [V/M] to select VFO or Memory mode.
- "VFO A" or "VFO B" is displayed in the VFO mode, or "MEMO" and current Memory channel number is displayed in the Memory mode.

VFO mode
(Example: VFO A)



Memory mode
(Example: Memory channel 1)



[V/M]

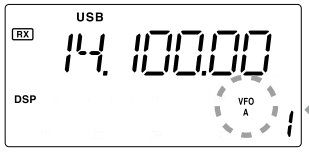
Using the VFO mode

The IC-718 has 2 Variable Frequency Oscillators (VFO), "A" and "B." Having 2 VFOs is convenient to quickly toggle between 2 frequencies, or for split frequency operation (p. 14). You can use either of the VFOs to operate on a frequency and mode.

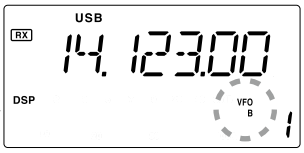
◇ Selecting VFO A or VFO B

In the VFO mode, push [A/B] to toggle between VFO A and B.

VFO A



VFO B



[A/B]

◇ Equalizing VFO A and VFO B

You can set the displayed VFO's frequency to the other VFO.
Push [A=B] to equalize the VFO A and VFO B frequency and mode.

Selecting the operating band

All HF ham bands and a general coverage receiver band are usable on the IC-718.
Push [UP▲] or [▼DN] several times to select an operating band.

Selecting the operating mode

You can select an operating mode from the SSB (LSB/USB), CW, CW reverse, RTTY, RTTY reverse, and AM modes.

1. Push [MODE] several times to select a mode.
2. In the selected mode, hold down [MODE] for 1 second to toggle the operating mode.

Operating mode selection list

Mode (Push [MODE])	Operating mode (Hold down [MODE] for 1 second)	
SSB	USB	LSB
CW	CW	CW REV (reverse)
RTTY	RTTY	RTTY REV (reverse)
AM	AM	

ⓘ You can inhibit some modes from the selection, if you do not usually operate them. (p. 20)

TIP: About the Band Stacking Register
The Band Stacking Register automatically stores the previously operated frequency and mode for each band.
See the table below about the usable bands and the default setting of each register.

Band	Frequency	Mode
1.9 MHz	1.91000 MHz	CW
3.5 MHz	3.55000 MHz	LSB
7 MHz	7.05000 MHz	LSB
10 MHz	10.12000 MHz	CW
14 MHz	14.10000 MHz	USB
General	15.10000 MHz	USB
18 MHz	18.10000 MHz	USB
21 MHz	21.20000 MHz	USB
24 MHz	24.95000 MHz	USB
28 MHz	28.50000 MHz	USB
29 MHz	29.50000 MHz	USB

ⓘ The General coverage frequency is automatically positioned, according to the previously operated frequency.

Setting the frequency

◇ Using the Main Dial

1. Select the desired operating band and operating mode.
2. Rotate [MAIN DIAL].
   - The frequency changes according to the selected Tuning Step.

For General coverage receiver use
The transceiver has a general coverage receiver band.
- Push [UP▲] or [▼DN] to select the general coverage receiver band.

Band Edge Beep
Even if you select a ham band, you can select a General coverage frequency. A band edge beep sounds when entering and exiting a ham band, depending on the Band edge beep setting.(p. 20)
ⓘ You can change the Band Edge Beep settings in the Initial Set mode.
ⓘ If "Beep Level" is set to "1," no beep sounds.

◇ Entering with the keypad

You can directly enter a desired frequency with the numeric keypad.
1. Push [F-INP/ENT].
   - the decimal points on the screen blink.
2. Enter an operating frequency.
   ⓘ Push [•] to enter decimal point between the MHz and kHz digits.
   ⓘ To cancel the input, push [SET] or a key other than the keypad keys.
   ⓘ You can omit the MHz digits entry if you do not need to change it.
3. Push [F-INP/ENT] to set the entered frequency.

Entry examples
- 21.025 MHz:
  [2], [1], [•], [0], [2], [5], [F-INP/ENT]
- 706 kHz (0.706 MHz):
  [0], [•], [7], [0], [6], [F-INP/ENT]
- 7 MHz:
  [7], [F-INP/ENT]
- Changing from 14.195 MHz to 14.850 MHz:
  [•], [8], [5], [0], [F-INP/ENT]

Dial Lock function

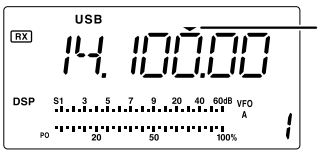
The Dial Lock function prevents frequency changes caused by accidentally moving [MAIN DIAL].
ⓘ This function electronically locks the dial.

Push [LOCK] to turn the Dial Lock function ON or OFF.

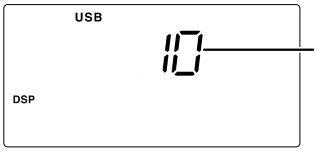
◇ Quick Tuning Step

When the Quick Tuning function is ON, you can change the tuning step to 0.1, 1, 5, 9, 10, or 100 kHz.

1. Push [TS] to turn ON the Quick Tuning function.
   - "▼" is displayed.



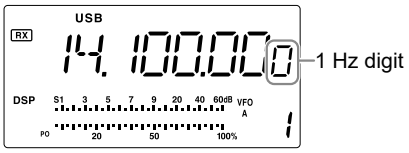
2. Hold down [TS] for 1 seconds to enter the Tuning Step Set mode.
3. Rotate [MAIN DIAL] to select a tuning step.



4. Push [TS] to exit the mode.
5. Rotate [MAIN DIAL] to change the frequency by the set tuning steps.
6. Push [TS] to turn OFF the Quick tuning function.
   - "▼" disappears.

◇ About the 1 Hz step Fine Tuning function

You can use the minimum tuning step of 1 Hz for fine tuning.
1. Confirm that the Quick Tuning function is OFF ("▼" is not displayed.)
2. Hold down [TS] for 1 second to toggle the tuning step between 1 Hz and 10 Hz.
   - When the tuning step is set to 1 Hz, the 1 Hz digit is displayed.



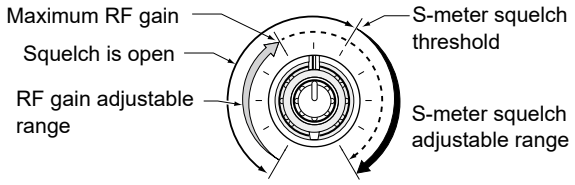
   - Rotating [MAIN DIAL] increases or decreases the frequency by the set tuning steps.

◇ About the Auto Tuning Step function

The tuning step automatically changes, depending on the rotation speed of [MAIN DIAL].
ⓘ You can change the Auto Tuning Step function settings in the Initial Set mode. (p. 20)

RF gain and SQL level

The transceiver uses the same control [RF/SQL] to adjust either the RF gain and the squelch.
By default, when the control is set to the 12 o'clock position, rotating the control counterclockwise adjusts the RF gain, and clockwise adjusts the squelch level as shown below.



ⓘ The function of the [RF/SQL] control can be customized in the Initial Set mode. (p. 20)

◇ RF gain

You can adjust the receive sensitivity.

If a strong interfering signal is received, rotate [RF/SQL] counterclockwise to reduce the RF gain.

NOTE: We recommend setting the RF Gain control to the 12 o'clock position since this sets RF gain to the maximum.

◇ Squelch (SQL) level

The S-meter squelch mutes the audio output from the speaker or headphones when the received signal is weaker than the specified S-meter squelch level.
Rotate the [RF/SQL] clockwise from the 12 o'clock position to increase the S-meter threshold level.
ⓘ The meter segments display the S-meter squelch level.

Meter display selection

The meter displays the signal strength level while receiving a signal. You can display one of the transmit parameters for your convenience.

Push [SET] several times to select one of the meters.

Meter functions

PO: Displays the relative RF output power.

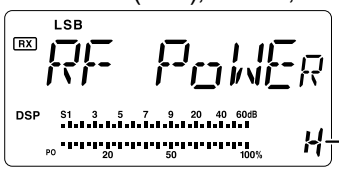
ALC: Displays the ALC level. When the meter movement shows the input signal level exceeds the allowed level, the ALC limits the RF power. In such cases, decrease the microphone gain level.

SWR: Displays the SWR of the antenna at the displayed frequency.

Adjusting the transmit output power

Before transmitting, monitor your selected operating frequency to make sure you do not cause interference to other stations on the same frequency.

1. Hold down [SET] for 1 second.
   • Enters the Quick Set mode.
2. Push [UP▲]/[▼DN] to select "RF Power."
3. Rotate [MAIN DIAL] to set the output power to between L (Low), 1 ~ 99, and H (High).



4. Push [SET] to exit the Quick Set mode.

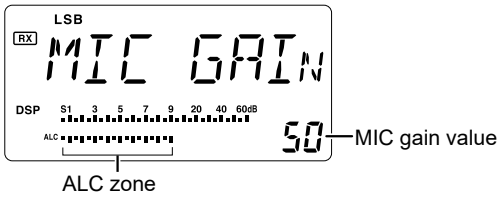
The usable power
SSB/CW/RTTY: 2 (or less) ~ 100 W
AM: 1 (or less) ~ 35 W (Career power)

Adjusting the microphone gain

Properly adjust the microphone gain to prevent distort your transmitted signal.

1. Set the operating band and mode to SSB or AM.
2. Hold down [SET] for 1 second.
   • Enters the Quick Set mode.
3. Push [UP▲]/[▼DN] to select "MIC GAIN."
4. Hold down [PTT] and adjust the microphone gain.

ⓘ Information
- Hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth, then hold down [PTT] on the microphone and speak at your normal voice level.
- In the SSB mode, set the meter to the ALC meter, and rotate [MAIN DIAL] to adjust the microphone gain until the meter reading does not peak past the ALC zone.



- In the AM mode, check the audio clarity with another station.

5. Release [PTT].
6. Push [SET] to exit the Quick Set mode.

Preamplifiers

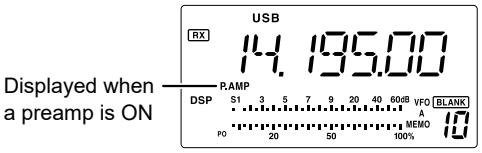
Below the 1.59999 MHz bands

The preamp amplifies received signals in the receiver front end to improve the signal-to-noise (S/N) ratio and sensitivity. A preamp is used when receiving weak signals.

The preamplifier functions below the 1.59999 MHz bands, however, the sensitivity may be reduced.

ⓘ Each band memorizes the Preamplifier setting.

1. Select the operating band.
2. Push [P.AMP] to turn the preamplifier ON or OFF.
   - "P.AMP" is displayed when the function is ON.



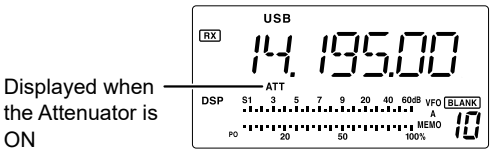
NOTE: When you use the preamp while receiving strong signals, the receiving signal may be distorted. In such case, turn OFF the preamp.

Attenuator

The Attenuator prevents a desired signal from becoming distorted when a very strong signal is near the frequency, or when a very strong electric field, such as from a broadcasting station, is near your location.

ⓘ Each band memorizes the Attenuator setting.

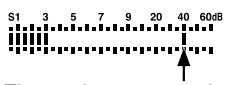
1. Select the operating band.
2. Push [ATT] to turn the 20 dB attenuator ON or OFF.
   - "ATT" is displayed when the function is ON.



Meter peak hold

The meter peak hold function keeps the highest displayed bar segment in any meter function for about 0.5 seconds so that you can read the meter indication easier.

This function can be turned ON or OFF in the Initial Set mode.



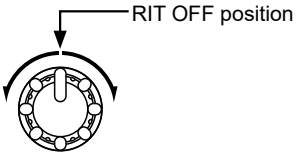
The peak meter remains for 0.5 seconds

RIT function

The Receiver Incremental Tuning (RIT) function compensates for differences in frequencies of other stations.

The function shifts your receive frequency up to ±1.2 kHz without shifting the transmit frequency.

1. Rotate the [RIT] control to set the RIT frequency to match the received station's transmit frequency.
   - "RIT" is displayed while RIT frequency is set.
   - The transmit frequency on the screen does not change.
2. To cancel the RIT function, rotate [RIT] to the 12 o'clock position.
   - "RIT" disappears.



Noise Blanker

The Noise Blanker eliminates pulse-type noise, such as the noise from car ignitions.

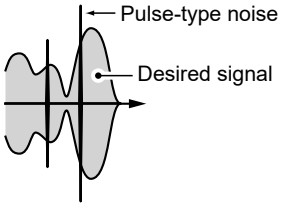
- Push [NB] to turn the Noise Blanker ON or OFF.
  - "NB" is displayed while the Noise Blanker function is ON.

Adjusting the Noise Blanker level

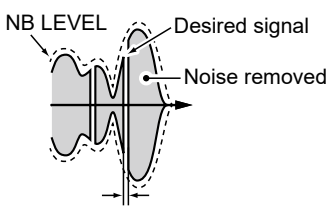
1. Hold down [NB] for 1 second to enter the Noise Blanker level set mode.
2. Rotate [MAIN DIAL] to adjust the Noise Blanker level.
3. Push [NB] to exit the set mode.

NOTE:
- When using the Noise Blanker, received signals may be distorted if they are excessively strong, or the noise is other than a pulse type. In that case, turn OFF the Noise Blanker.
- You can turn the Noise Blanker function in the AM mode ON or OFF in the Initial set mode. (p. 20)

NB is OFF



NB is ON (Effective)

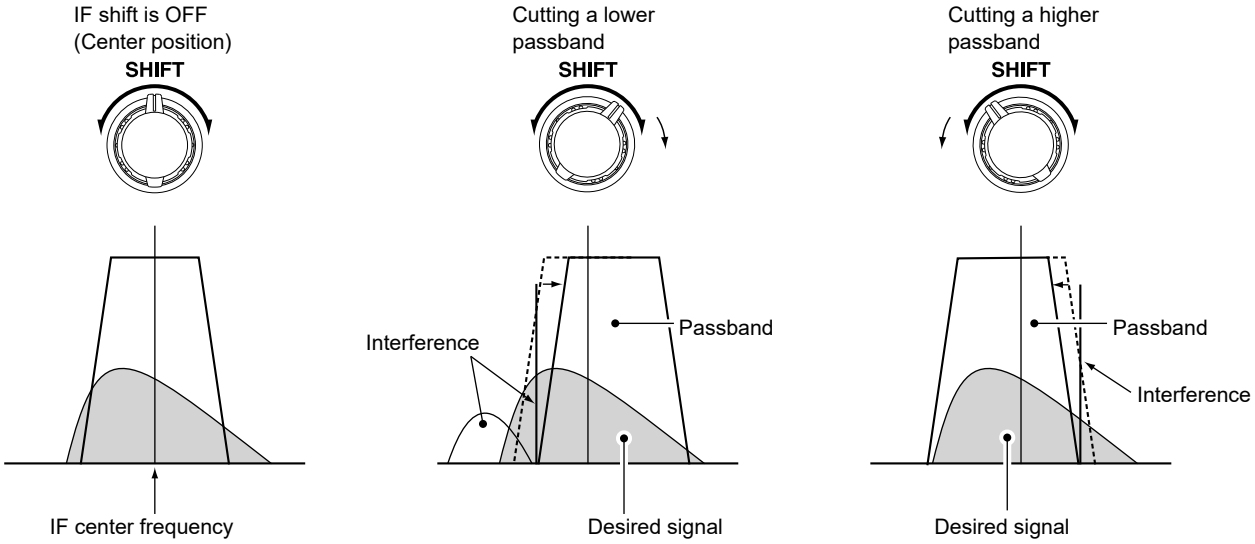


IF Shift function

The IF Shift function electronically narrows the passband frequency of the intermediate frequency (IF) and cuts out higher or lower frequency components of the IF to reject interference.
The function shifts the IF frequency up to ±1.2 kHz in the SSB/CW/RTTY modes and up to ±250 Hz in the CW-narrow/RTTY narrow modes.
The IF shift is not selectable in the AM mode.

IF shift operation example:

- Adjust the [SHIFT] control for minimum interference.
- When IF shift is used, the audio tone may change.
- Set the IF shift control to the center position when there is no interference.

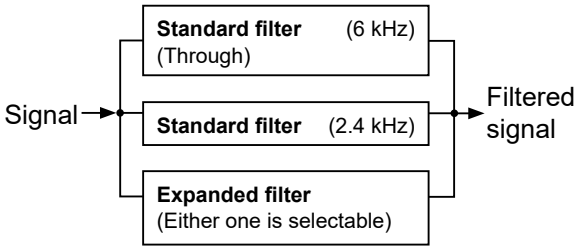


Selecting the IF filter

The IF filter selection adjusts the IF bandpass width, as shown below.
ⓘ Each operating mode memorizes Digital IF filter setting.

Filter		Band width	Mode
Standard		6 kHz	SSB/CW/RTTY: Wide AM: Normal
		2.4 kHz	SSB/CW/RTTY: Normal AM: Narrow
Expanded	52A	500 Hz/–6 dB	CW/RTTY: Narrow
	53A	250 Hz/–6 dB	CW/RTTY: Narrow
	96	2.8 kHz/–6 dB	SSB: Wide
	222	1.8 kHz/–6 dB	SSB: Narrow
	257	3.3 kHz/–6 dB	SSB: Wide

Filter image



1. Select the desired mode with the mode keys.
2. Push [FIL] several times to select the desired filter combination.
   - **W** or **N** is not displayed when using the Normal (standard) IF filter.
   - **W** is displayed when the Wide IF filter is selected.
   - **N** is displayed when the Narrow IF filter is selected.

Filter selection table (Unit: Hz)

Mode	Filter width	Expanded filter	Expanded filter setting					
			None	52A	53A	96	222	257
SSB	WIDE	OFF	–			2.8 k	–	3.3 k
		ON	6 k					
	NORMAL	OFF/ON	2.4 k					
	NARROW	OFF	–				1.8 k	–
		ON	–	500	250	–		
CW RTTY	WIDE	OFF	–			2.8 k	–	3.3 k
		ON	6 k					
	NORMAL	OFF/ON	2.4 k					
	NARROW	OFF/ON	–	500	250	–	1.8 k	–
AM	WIDE	OFF/ON	–					
	NORMAL	OFF/ON	6 k					
	NARROW	OFF	2.4 k					
		ON	2.4 k	500	250	2.8 k	1.8 k	3.3 k

◇ Setting the filter

The optional filter is not selected by default.
To use an Expanded filter, set the items in the Initial Set mode.

1. Turn OFF the transceiver.
2. While holding down [SET], push [PWR].
   - Enters the Initial set mode.
3. Push [UP▲] or [▼DN] to select “FIL” and rotate [MAIN DIAL] to select an Expanded filter.
4. Push [UP▲] to select “EXP FIL” and rotate [MAIN DIAL] to set the expanded filter, if necessary.
   ⓘ When the expanded filter is ON, you can select an expanded filter in each operating mode, as described below.
5. When the setting has been finished, push [PWR] to exit the Initial Set mode and turn OFF the transceiver.
6. Turn ON the transceiver to operate with new settings.

Setting the Wide or Narrow filter

1. In the Initial Set mode, push [UP▲] or [▼DN] to select “WIDE” (Wide) or “NAR” (Narrow).
2. Push [MODE] to select an operating mode.
3. Rotate [MAIN DIAL] to select a filter.
   - For the Wide filter, “THU” (Through) selects the 6 kHz standard filter.
   - For the Narrow filter in the AM mode, “NoR” (Normal) selects the 2.4 kHz standard filter.
4. Repeat steps 2 and 3 to select IF filters in other operating modes, if necessary.
   ⓘ The filter selection is memorized in each operating mode.

Noise Reduction

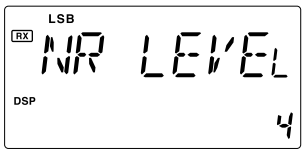
The Noise Reduction function reduces random noise components and enhances signal audio.

Push [NR] to turn the Noise Reduction function ON or OFF.
• [NR] is displayed when the function is ON.

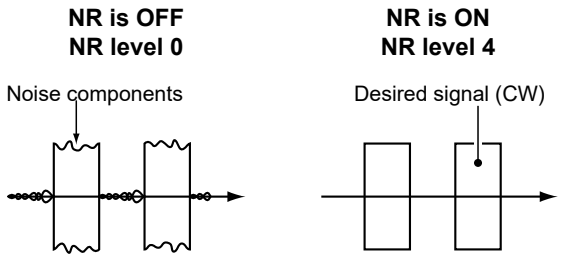
◇ Adjusting the Noise Reduction level

Adjust the Noise Reduction level to where noise is reduced but the received signal is not distorted.

1. Hold down [NR] for 1 second.
   • Enters the Noise Reduction level set mode.



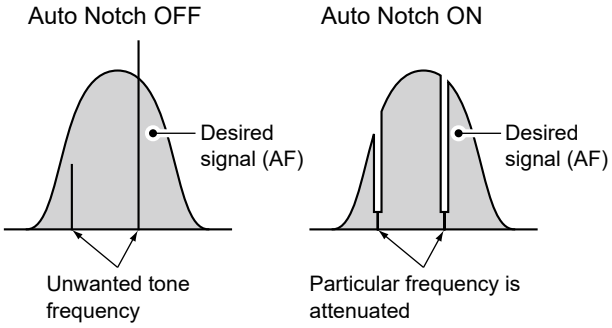
2. Rotate [MAIN DIAL] to adjust the Noise Reduction level.
   ⓘ Adjust to a higher level to increase the reduction level, and a lower level to decrease it.
3. Push [NR] to exit the level set mode.



Automatic Notch Filter (ANF)

SSB mode
Auto Notch automatically attenuates more than 3 beat tones, tuning signals, and so on, even if they are moving.

1. Select the SSB mode.
2. Push [ANF] to turn the Automatic Notch Filter function ON or OFF.
   • "ANF" is displayed when the function is ON.

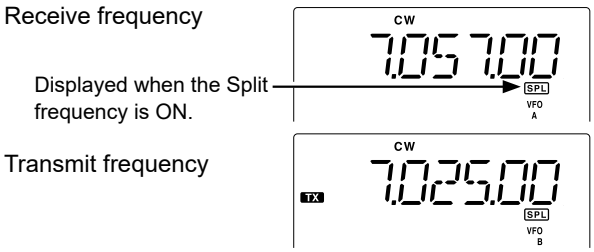


Split frequency operation

Split frequency operation enables you to transmit and receive on different frequencies in the same band.

Use the receive and transmit frequencies set to VFO A and VFO B.

1. Select VFO B, and then set the receive frequency and the operating mode.
   (Example: 7.025 MHz in the CW mode)
2. Push [A/B] to select VFO A.
3. Set VFO A's receive frequency and operating mode. (Example: 7.057 MHz in the CW mode)
4. Push [SPL] to turn ON the Split function.



   ⓘ Rotate [MAIN DIAL] while receiving to change the receiving frequency, and while transmitting to change the transmit frequency.
   ⓘ Push [A/B] to toggle the transmit and receive frequencies.
5. Push [SPL] to turn the Split function OFF.

Microphone Compressor

SSB mode

The Speech Compressor increases the average RF output power, improving readability at the receiving station. This function compresses the transmitter audio input to increase the average audio output level.

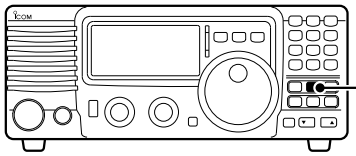
ⓘ The function is effective for long-distance communication, or when propagation conditions are poor.

Setting before using the Microphone Compressor function

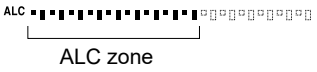
1. Select the SSB mode. (Example: USB)
2. Push [SET].
   - Enters the Quick Set mode.
3. Push [UP▲] or [▼DN] to select “MIC GAIN.”
4. Adjust the microphone gain by rotating [MAIN DIAL].
   ⓘ Be sure the microphone gain is in the range of 20 to 50.
5. Push [SET] to exit the Quick Set mode.

Using the Microphone Compressor function

1. Push [COMP] to turn ON the microphone compressor.



   ⓘ “COM” is displayed while the function is ON.
2. Push [SET] until the ALC meter is displayed.
   ⓘ Pushing [SET] toggles the meter to Po, SWR, ALC.
3. While speaking into the microphone at your normal voice level, rotate [MAIN DIAL] to adjust the Speech Compressor level to where the ALC meter reads within the ALC zone.

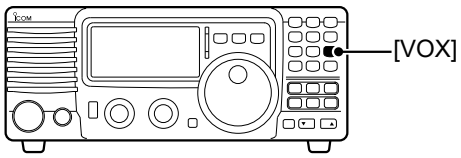


   ⓘ If the ALC meter peaks exceed the ALC zone, your transmitted voice may be distorted.

VOX function

The Voice-operated Transmission (VOX) function switches between transmit and receive with your voice. This function enables hands-free operation.

Push [VOX] to turn the VOX function ON or OFF.



- “VOX” is displayed while the VOX function is ON.

◇ Adjusting the VOX function

Before using the VOX function, adjust the following items in the Quick Set mode.

- VOX Gain (p. 19)
- VOX Delay (p. 19)
- Anti VOX Level (p. 19)

1. Push [VOX] to turn the VOX function ON.
2. Push [SET] to enter the Quick Set mode.
3. Push [UP▲] or [▼DN] to select “VOX GAIN.”
4. While speaking at your normal voice level, rotate [MAIN DIAL] to adjust the VOX gain until the transceiver transmits.
5. Push [UP▲] or [▼DN] to select “VOX Delay.”
6. While speaking at your normal voice level, rotate [MAIN DIAL] to adjust the VOX delay to between 0 and 2 seconds.
7. Push [UP▲] or [▼DN] to select “Anti VOX” (AN-VoX.)
8. Adjust the Anti VOX level to prevent unwanted VOX activation from the speaker or other sounds.
9. Push [SET] to exit the Quick Set mode.

Memory channel operation

The transceiver has 101 Memory channels, 99 of regular memory channels and P1 and P2 for the Programmed Scan edge.
The Memory mode is useful for quickly changing to often-used frequencies. The entered frequency can be temporarily tuned by rotating [MAIN DIAL].

◇ Writing a Memory channel

1. In the VFO mode, set the operating mode and frequency.
   ⓘ Preamp setting, attenuator ON or OFF, and AGC settings can also be entered into a Memory channel.
2. Push [CH], and then [UP▲] or [▼DN] to select a Memory cannel number you want to set.
   • "MEMO" blinks.
   • "BLANK" is displayed if the channel is blank.
3. Hold down [MW] for 1 second to write the current operating mode and frequency into the Memory channel.
   • 3 beeps sound.
4. Push [CH] to exit the Memory Channel Select mode.

◇ Selecting a Memory channel

1. Push [V/M] to select the Memory mode.
   • "MEMO" and a Memory channel number is displayed.
2. Push [CH] to enter the Memory Channel Select mode.
   • "MEMO" blinks.
3. Select a Memory channel by:
   • Pushing [UP▲] or [▼DN].
   ⓘ Hold down the key to scroll up or down.
   • Entering the channel number with the keypad.
4. Push [CH] to exit the Memory Channel Select mode.

ⓘ You can clear content of a Memory channel by holding down [M-CL] for 1 second in Step 3 above.

◇ Transferring a Memory channel to the VFO

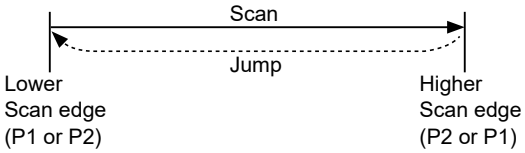
You can transfer the Memory channel content to the VFO mode.

1. Push [V/M] to select the VFO mode.
2. Push [CH] to enter the Memory Channel Select mode.
   • "MEMO" blinks.
3. Select a Memory channel by:
   • Pushing [UP▲] or [▼DN].
   ⓘ Hold down the key to scroll up or down.
   • Entering the channel number with the keypad.
4. Hold down [M►V] for 1 second to transfer the settings.
   • The transferred operating mode and frequency is displayed.
5. Push [CH] to exit the Memory Channel Select mode.

Scan operation

◇ Programmed scan

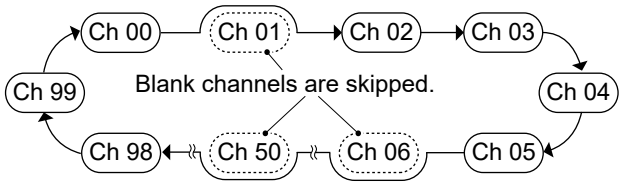
Repeatedly scans between two scan edge frequencies.
Enter scan edge frequencies into the P1 and P2 memory channels.



1. Push [V/M] to select the VFO mode.
2. Push [SCN] to start or stop the Programmed scan.
   • The scan continues until it is manually stopped.

◇ Memory scan

Repeatedly scans all entered Memory channels (except P1 and P2).
Enter two or more Memory channels to use the Memory scan.



ⓘ Blank (not entered) Memory channels are skipped.

1. Push [V/M] to select the Memory mode.
2. Push [SCN] to start or stop the Memory scan.

TIP: You can set the Scan speed and Scan Resume function in the Initial Set mode. (p. 20)

◇ Squelch condition

When the scan starts with the squelch open:

- In the VFO mode, the scan continues until it is manually stopped— it does not pause, even if signals are detected.
- In the Memory mode, the scan pauses on each step when the Scan Resume function is ON. It does not pause when the function is OFF.

When the scan starts with the squelch closed:

- The scan stops when a signal is detected.
- When the Scan Resume function is ON, the scan pauses for 10 seconds after detecting a signal, then resumes 2 seconds after the signal disappears.

Set mode description

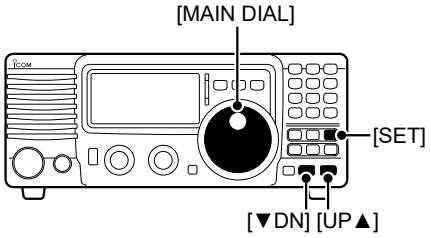
You can use the Set mode to set infrequently changed values or function settings.
The transceiver has 2 set modes, the Quick Set mode and the Initial Set mode.

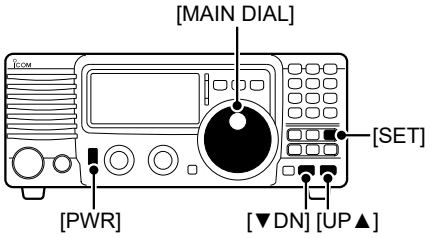
◇ Quick Set mode operation

1. While the transceiver is ON, hold down [SET] for 1 second.
   - Enters the Quick Set mode, and a setting item is displayed.
2. Push [UP▲] or [▼DN] to select an item.
3. Rotate the [MAIN DIAL] to set a value or option for the selected item.
4. Repeat steps 2 and 3 to set other items.
5. Push [SET] to exit the Quick Set mode.

◇ Initial Set mode operation

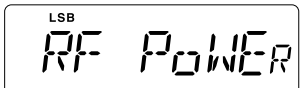
1. Turn OFF the transceiver.
2. While holding down [SET], push [PWR] to turn ON the transceiver.
   - Enters the Initial Set mode and a setting item is displayed.
3. Push [UP▲] or [▼DN] to select an item.
4. Rotate the [MAIN DIAL] to set a value or option for the selected item.
5. Repeat steps 2 and 3 to set other items.
6. Hold down [PWR] for 1 second to turn OFF the transceiver.
7. Push [PWR] to turn ON the transceiver with the revised settings.





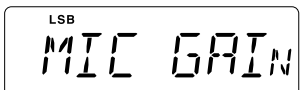
Quick Set mode items

NOTE: The default settings described below are for the USA version transceiver. The default settings may differ, depending on your transceiver version.



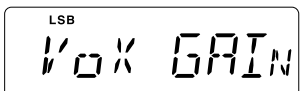
RF Power (Default: H)

Sets the RF output power.
- Range: L (minimum), 1 ~ 99, H (maximum)



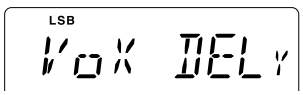
Mic Gain (Default: 50)

Adjusts the microphone gain.
- Range: 0 ~ 99, H (maximum)



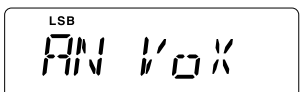
VOX Gain (Default: 50)

Adjusts the VOX gain for the VOX (Voice Activated transmit) function.
- Range: 1 ~ 99, H (maximum)



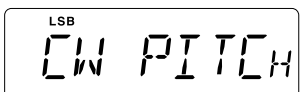
VOX Delay (Default: 10 (1.0 second))

Adjusts the VOX delay time.
- Range: 0 ~ 20 (2.0 seconds) in 0.1 second steps.



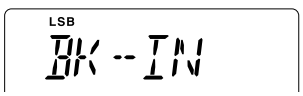
Anti VOX Level (Default: 50)

Adjusts Anti-VOX gain for the VOX operation.
- Range: 0 ~ 99, H (maximum)



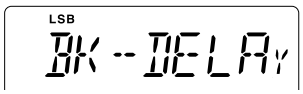
CW Pitch (Default: 60 (600 Hz))

Sets the CW tone pitch
- Range: 30 (300 Hz) ~ 90 (900 Hz) in 10 Hz steps.



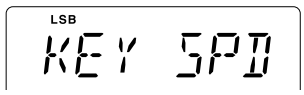
BK-IN (Default: oF)

Sets the Break-in type for the CW operation.
- Options: oF (OFF), SE (Semi break-in), FL (Full break-in)



BK-IN Delay (Default: 7)

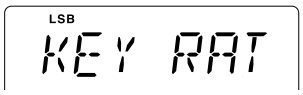
Sets the Break-in delay time for the CW semi break-in operation.
- Range: 2 ~ 13 (dots.)



Key Speed (Default: 20)

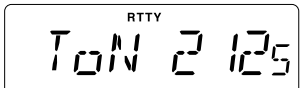
Adjusts the CW keying speed.
- Range: 6 ~ 60 (wpm.)

ⓘ Some values cannot be set between 6 and 60.



Key Ratio (Default: 30 (3.0))

Sets the CW key ratio (or weight.)
- Range: 28 (2.8) ~ 45 (4.5.)



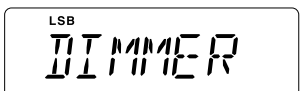
RTTY Mark Tone (Default: 2125)

Selects the Mark tone frequency for RTTY operation.
- Options: 1275, 1615, 2125 (Hz)



RTTY Shift (Default: 170)

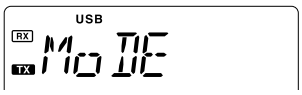
Selects the RTTY shift frequency.
- Options: 170, 200, 425, 850 (Hz)



Dimmer (Default: HI)

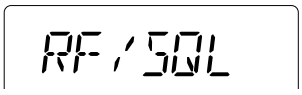
Selects the display backlight brightness.
- Options: oF (OFF), Lo (Dim), HI (Bright)

Initial Set mode items



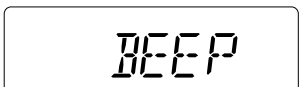
Mode Select (Default: All the operating modes are ON)

Displays or inhibits the mode selection by pushing [MODE]. Push [MODE] to select an operating mode you want to set, and then rotate [MAIN DIAL] to set it ON or OFF.
- Options: RX/TX (Receive and transmit), RX (Receive only), and no icon (OFF)



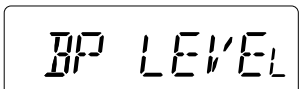
RF/SQL Control Action (Default: rS)

Selects the function of the [RF/SQL] control.
- Options: Sq (Squelch), At (Squelch in the AM modes and RF/Squelch in the SSB, CW, and RTTY modes), rS (RF/Squelch)



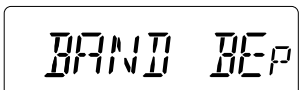
Beep (Default: on)

Turns the confirmation beep sound ON or OFF.



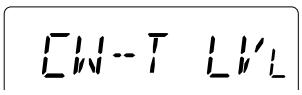
Beep Level (Default: 50)

Adjusts the confirmation beep level.
- Range: 1 ~ 99



Band Edge Beep (Default: on)

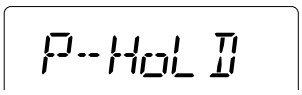
Turns the Band Edge Beep ON or OFF.



Side Tone Level (Default: 30)

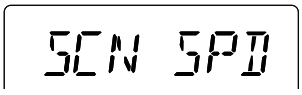
Adjusts the CW side-tone output level.
- Range: 1 ~ 99

ⓘ Make sure the Break-in function is OFF, and SQLS is set to Low to use the CW side-tone.



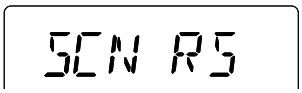
Meter Peak Hold (Default: on)

Turns the Meter Peak Hold function ON or OFF.



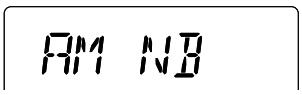
SCAN Speed (Default: HI)

Sets the Scan speed.
- Options: Lo (Low), HI (High)



SCAN Resume (Default: on)

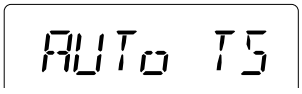
Turns the Scan Resume function ON or OFF. A scan pauses for 10 seconds if the signal is detected, 2 seconds after the signal disappears, the scan resumes.



AM Noise Blanker (Default: on)

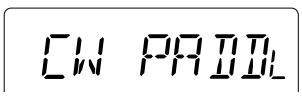
Turns the Noise Blanker function in the AM mode ON or OFF.

ⓘ The Noise Blanker function may degrade the audio, such as regular AM radio broadcasts.



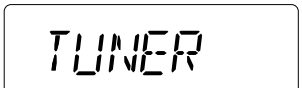
Auto TS (Default: on)

Sets the Auto Tuning Step function for [MAIN DIAL]. When rapidly rotating [MAIN DIAL], the tuning step automatically changes according to the rotation speed.



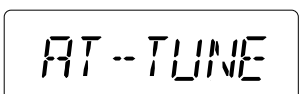
Key Type (Default: n)

Selects the CW paddle type.
- Options: n (Normal), r (Reverse), oF (for a straight key), ud (Uses microphone's [UP]/[DN] keys instead of the paddle.)



Tuner Type (TUNER) (Default: no)

Selects the tuner type when an optional antenna tuner is connected.
- Options: no (No tuner), 4 (AH-730 or AH-740), 18 (AT-180)

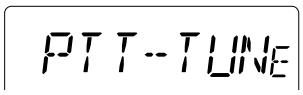


Auto Tune (Default: oF)

Turn the AT-180's automatic tune ON or OFF if the SWR is poor (1.5–3).

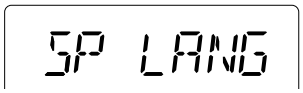
ⓘ When the function is ON, an automatic tune starts even when the tuner is turned OFF.

Initial Set mode items



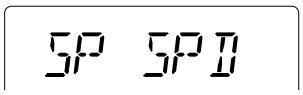
PTT Tune (Default: oF)

Select whether or not an optional AH-4, AH-740, or AT-180 AUTOMATIC ANTENNA TUNER automatically starts tuning when the [PTT] is pushed.



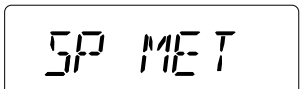
Speech Language (Default: En)

Select the speech language.
- Options: JP (Japanese), En (English)



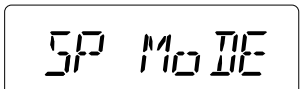
Speech Speed (Default: HI)

Select the voice announce speed.
- Options: HI (Fast), Lo (Slow)



Speech S-meter Level (Default: on)

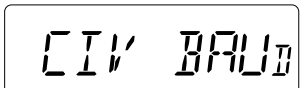
Set whether or not to announce the S-meter level.
- oF: The operating frequency and the operating mode are announced.
- on: The signal strength level, the operating frequency, and the operating mode are announced.



Speech Mode (Default: oF)

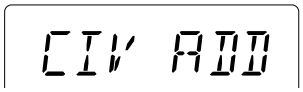
Set whether or not to announce the operating mode when it is changed.

ⓘ Regardless of this setting, holding down [LOCK] for 1 second announces the signal strength level (if Speech S-meter Level is set to ON), frequency, and operating mode.



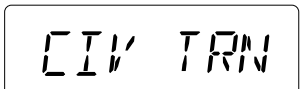
CI-V Baud Rate (Default: At)

Sets the baud rate for the CI-V data transferring.
- Options: 3 (300 bps), 12 (1200 bps), 48 (4800 bps), 96 (9600 bps), HI (19200 bps), At (Auto)



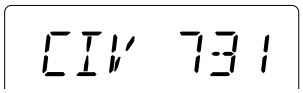
CI-V Address (Default: 5E)

Sets the CI-V Icom standard address in hexadecimal code.
- Options: 01 ~ 7F



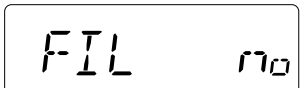
CI-V Transceive (Default: on)

Turns the CI-V transceive function ON or OFF.



CI-V 731 Mode (Default: oF)

Converts the CI-V operating frequency data length from 5 bytes to 4 bytes.
- Options: on (4 bytes), oF (5 bytes)



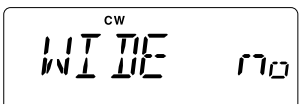
Expanded Filter (Default: no)

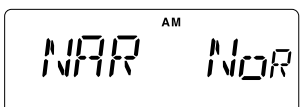
Select an Expanded IF filter you want to use.
- Options: no, 52A (500 Hz), 53A (250 Hz), 96 (2.8 kHz), 222 (1.8 kHz), 257 (3.3 kHz)



Expanded Filter Selection (ON/OFF) (Default: oF)

Turns the Expanded filter (Wide or Narrow) ON or OFF.
Push [MODE] several times to select an operating mode you want to set, and then rotate [MAIN DIAL] to set the expanded filter ON or OFF.





Filter Selection (WIDE/NAR) (Default: WIDE=no, NAR=NoR)

Select an IF filter for the Wide or Narrow bandwidth in each operating mode.
Push [MODE] several times to select an operating mode you want to set, and then rotate [MAIN DIAL] to select a filter.

ⓘ Settable only in the mode that the Expanded Filter Selection is ON.

ⓘ The options differ, depending on the selected filter and operating mode. (p.13)
- Options (WIDE): THU (through), no or an optional IF filter if you set.
  (NAR): NoR (Normal), no or an optional IF filter if you set.

◇ General

- Frequency coverage (Unit: MHz):

Receiver *1	0.030000 ~ 29.999999
Transmitter *2	1.800000 ~ 1.999999
	3.400000 ~ 3.999999
	6.900000 ~ 7.499999
	9.900000 ~ 10.499999
	13.900000 ~ 14.499999
	17.900000 ~ 18.499999
	20.900000 ~ 21.499999
	24.400000 ~ 25.099999
	28.000000 ~ 29.999999

*1 Guaranteed range: 0.500000 ~ 29.999999 MHz
*2 The frequency coverage and guaranteed ranges differ, depending on the transceiver version.

- Operating Modes: USB/LSB (J3E), CW (A1A), RTTY (F1B), AM (A3E)
- Number of memory channels: 101 (including 2 scan edges)
- Antenna impedance: 50 Ω unbalanced
- Power supply requirement: 13.8 V DC ±15%
- Polarity: negative ground
- Operating temperature range: –10°C ~ +60°C, +14°F ~ +140°F
- Frequency resolution: 1 Hz
- Frequency stability: Less than±20 ppm (–10°C ~ +60°C, 14°F ~ 140°F)
- Current drain:

Receive	Standby	0.7 A (Typical)
	Maximum audio	2.0 A
Transmit	Maximum power	20.0 A

- Dimensions (Approximate, projections not included): 240 (W) × 95 (H) × 239 (D) mm, 9.4 (W) × 3.7 (H) × 9.4 (D) in
- Weight (Approximate): 4.0 kg, 8.8 lb

◇ Transmitter

- Transmit output power:

SSB, CW, RTTY	2 W ~ 100 W
AM	1 W ~ 35 W

- Modulation system:

SSB	Digital PSN modulation
AM	Digital Low power modulation

- Spurious emissions: Less than –50 dB
- Carrier suppression: More than 40 dB
- Unwanted sideband suppression: More than 50 dB
- Microphone impedance: 600 Ω

◇ Receiver

- Receive system: RF Direct Sampling
- Sensitivity (Preamplifier ON):
  SSB/CW/RTTY (10 dB S/N)
  Less than 0.16 μV (1.8 ~ 29.999999 MHz)
  AM (10 dB S/N)
  Less than 12.6 μV (0.5 ~ 1.799999 MHz)
  Less than 2.0 μV (1.8 ~ 29.999999 MHz)
  (For the European versions)
  SSB/CW/RTTY (12 dB SINAD)
  Less than 10 dBμV (1.8 ~ 2.999999 MHz)
  Less than 0 dBμV (3.0 ~ 29.999999 MHz)
  AM (12 dB SINAD)
  Less than 16 dBμV (1.8 ~ 2.999999 MHz)
  Less than 6 dBμV (3.0 ~ 29.999999 MHz)
- Squelch sensitivity (threshold):

SSB, CW, RTTY	Less than 5.6 μV

- Selectivity (Expanded Filter OFF):

SSB (BW=2.4 kHz)	More than 2.4 kHz/–6 dB, Less than 3.4 kHz/–40 dB
CW (BW=500 Hz)	More than 500 Hz/–6 dB, Less than 700 Hz/–40 dB
RTTY (BW=500 Hz)	More than 500 Hz/–6 dB Less than 800 Hz/–40 dB
AM (BW=6 kHz)	More than 6 kHz/–6 dB Less than 10 kHz/–40 dB

- Spurious and image rejection:

SSB, CW, AM	More than 70 dB (1.8 ~ 29.999999 MHz)

- Audio output power: More than 2.0 W (8 Ω load, 1 kHz, 10% distortion)
- Audio output impedance: 8 Ω
- RIT variable range: ±1.2 kHz

ⓘ All stated specifications are typical and subject to change without notice or obligation.

8 OPTIONS

(As of April 2026)

Microphones

HM-219 HAND MICROPHONE
The same as supplied.
SM-30 DESKTOP MICROPHONE
SM-50 DESKTOP MICROPHONE

Speaker

SP-41 EXTERNAL SPEAKER
SP-35 EXTERNAL SPEAKER (Cable length: 2 m, 6.6 ft)
SP-35L EXTERNAL SPEAKER (Cable length: 6 m, 19.7 ft)

Antennas

AH-5NV NVIS KIT
Use with the AH-740.
AH-710 FOLDED DIPOLE ANTENNA
AH-730 AUTOMATIC ANTENNA TUNER
Input power rating: 150 W Maximum
AH-740 AUTOMATIC TUNING ANTENNA
Frequency coverage with 1.54 m whip antenna:
2.5 MHz ~ 29.9999 MHz

Linear amplifier

IC-PW2 LINEAR AMPLIFIER

Cables

OPC-599 ADAPTER CABLE
13-pin, ACC connector to 7-pin +8-pin ACC connectors.
OPC-1465 CONTROL CABLE
To connect the AH-730
Approximately 10 m, 32.8 feet
OPC-2321 CONTROL CABLE
To connect the AH-740
Approximately 6 m, 19.7 feet

Others

MB-23 CARRYING HANDLE
MB-118 MOBILE MOUNTING BRACKET

ⓘ Some options may not be available in some countries. Ask your dealer for details.

Troubleshooting

The following chart is designed to help you correct problems which are not equipment malfunctions.
If you are not able to locate the cause of a problem or solve it through the use of this chart, contact your nearest Icom Dealer or Service Center.

	Problem	Possible cause	Solution	Ref.
POWER	Power does not turn ON when [PWR] is pushed.	• DC power cable is improperly connected. • Fuse is blown. • The external power supply is turned OFF.	• Properly reconnect the DC power cable. • Turn ON the external power supply. • Find and repair the cause of the problem, and then replace the blown fuse with a new one.	p. 6 p. 6 p. 25
RECEIVE	No sound is heard from the speaker.	• The audio level is too low. • The squelch is closed. • The transceiver is in the transmitting mode.	• Rotate [AF] control clockwise to obtain a suitable listening level. • Rotate [RF/SQL] to around the 10 o'clock position to open the squelch, and adjust the squelch level. • Turn OFF the transmit mode.	p. 7 p. 10 –
	Sensitivity is too low, and only strong signals are heard.	• The Antenna is not properly connected. • The antenna for another band is connected. • The antenna is not properly tuned. • The attenuator is activated.	• Reconnect the antenna connector. • Connect an antenna suitable for the operating band. • Hold down [TUNER] for 2 seconds to manually tune the antenna. • Turn OFF the Attenuator.	p. 5 p. 5 p. 3 p. 11
	Receive audio is distorted.	• The operating mode is not selected correctly. • The IF SHIFT function is activated. • The Noise blanker function is activated. • The preamp is activated. • The Noise Reduction function is activated and set too high.	• Select the correct operating mode. • Rotate [SHIFT] to the center position. • Push [NB] to turn OFF the function. • Push [P.AMP] to turn OFF the function. • Set the [NR] control for maximum readability.	p. 8 p. 12 p. 11 p. 11 p. 14
TRANSMIT	Cannot transmit.	• The operating frequency is outside the selected ham band.	• Set the frequency within the selected ham band.	p. 9
	Output power is too low.	• RF power is too low. • The microphone gain is too low. • The selected antenna is for a different band. • The antenna is not properly tuned.	• Set [RF POWER] to a suitable level. • Set [MIC GAIN] to a suitable level. • Select an antenna suitable for the operating frequency. • Hold down [TUNER].	p. 10 p. 10 – p. 2
	Cannot contact with another station.	• The RIT function is activated. • The Split frequency function is activated.	• Push [RIT] to turn OFF the function. • Push [SPLIT] to turn OFF the function.	p. 11 p. 14
	Transmitted signal is distorted.	• The microphone gain is too high. • The microphone compressor function is activated.	• Set [MIC GAIN] to a suitable level. • Push [COMP] to turn OFF the Microphone compressor function.	p. 10 p. 15
SCAN	Programmed scan does not stop.	• Squelch is open. • [RF/SQL] is assigned to RF gain control and squelch is open.	• Set [RF/SQL] to the threshold point. • Reset [RF/SQL] control assigned and set it to the threshold point.	p. 10 p. 10
	Programmed scan does not start.	• The same frequencies have been entered in scan edge memory channels P1 and P2.	• Enter different frequencies in Scan Edge memory channels P1 and P2.	p. 17
	Memory scan does not start.	• 2 or more memory channels have not been entered.	• Enter 2 or more memory channels.	p. 16
DISPLAY	The displayed frequency does not change when rotating the main dial.	• The dial lock function is activated. • A Quick Set mode screen is selected. • The internal CPU has malfunctioned.	• Push [LOCK] to deactivate the function. • Push [SET] to exit the Quick Set mode. • Reset the CPU.	p. 9 p. 18 p. 7

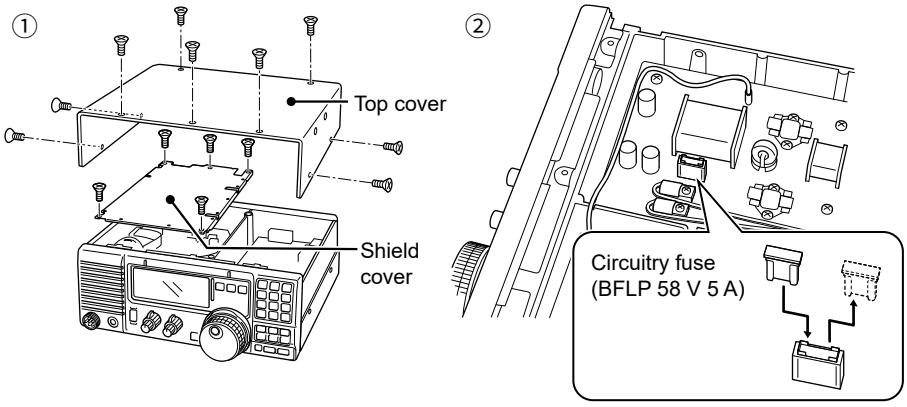
Fuse replacement

If a fuse blows, or the transceiver stops functioning, find and repair the cause of the problem. Then replace the damaged fuse with a new, adequately rated fuse.
ⓘ Spare fuses are supplied with the transceiver.

The fuses are installed in the DC power cable and in the inside circuitry, to protect the transceiver.

◇ Circuitry fuse

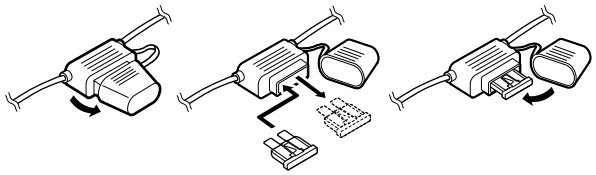
1. Remove the top cover of the transceiver and the shield cover. (①)
2. Replace the circuitry fuse to a brand-new one. (②)
3. Replace the covers and screws.



◇ DC power cable fuses

Fuse Coding explanation:
Fuse Coding: FUSE 32 V 25 A
Fuse Voltage Rating: 32 Volts
Fuse Current Rating: 25 Amperes

⚠ **WARNING!**
- Disconnect the DC power cable from the external power source before replacing the fuse.
- **NEVER** use fuses other than specified ones.



(ATQ 32 V 25 A)

INSTALLATION NOTES

For amateur base station installations, it is recommended that the forwards clearance in front of the antenna array is calculated relative to the EIRP (Effective Isotropic Radiated Power). The clearance height below the antenna array can be determined in most cases from the RF power at the antenna input terminals.
As different exposure limits have been recommended for different frequencies, a relative table shows a guideline for installation considerations.

Below 10 MHz, the recommended limits are specified in terms of V/m or A/m fields as they are likely to fall within the near-field region. Similarly, antennae may be physically short in terms of electrical length and the installation will require some antenna matching device which can create high intensity magnetic fields. Analysis of such MF installations is best considered in association with published guidance notes such as the FCC OET Bulletin 65 Edition 97-01 and its annexes relative to amateur transmitter installations. Further information can be found at https://www.arrl.org/

• Typical amateur radio installation

Exposure distance assumes that the predominant radiation pattern is forwards and that radiation vertically downwards is at unity gain (sidelobe suppression is equal to main lobe gain). This is true of almost every gain antenna today.
Exposed persons are assumed to be beneath the antenna array and have a typical height to 1.8 m.
The figures assume the worst case emission of constant carrier.

For the bands 10 MHz and higher the following power density limits are recommended :

10–30 MHz	2 W/sq m

Watts (EIRP)/ Clearance heights

1	2.1 (m)
10	2.8
25	3.4
100	5
1000	12

Watts (EIRP)/ Forward clearance

100	2 (m)
1,000	6.5
10,000	20
100,000	65

In all cases any possible risk depends on the transmitter being activated for long periods. (actual recommendation limits are specified as an average of 6 minutes) Normally the transmitter is not active for long periods of time. Some radio licenses will require that a timer circuit automatically cuts the transmitter after 1–2 minutes etc.

Similarly some types of transmitter, SSB, CW, AM, etc. have a lower ‘average’ output power and the perceived risk is even lower.

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How the World Communicates



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