



ADVANCED MANUAL

HF ALL BAND TRANSCEIVER  
**IC-718**



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

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## ABOUT THE MANUALS

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You can use the following manuals to understand and operate this transceiver. (As of November 2024)

**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 (Comes with the transceiver)**

Instructions for basic operations.

- **Advanced manual (This manual)**

Instructions for advanced operations.

### For Reference

- **HAM Radio Terms (PDF type)**

A glossary of HAM radio terms in English.

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## TRADEMARKS

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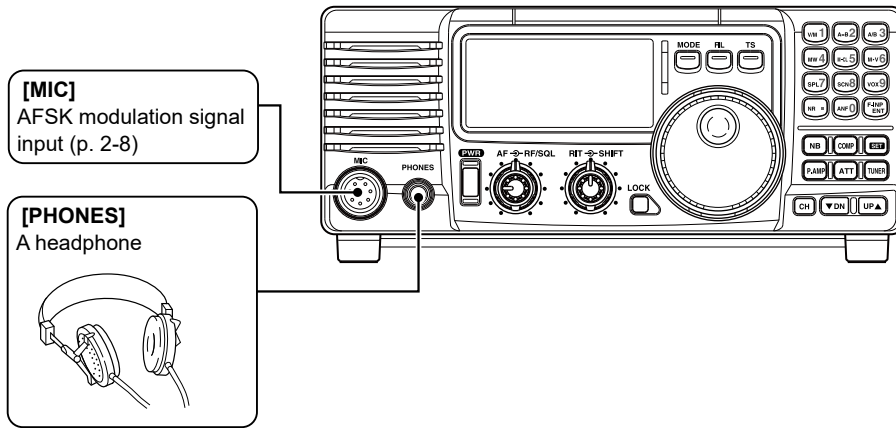
# Section 1      **ADVANCED CONNECTIONS**

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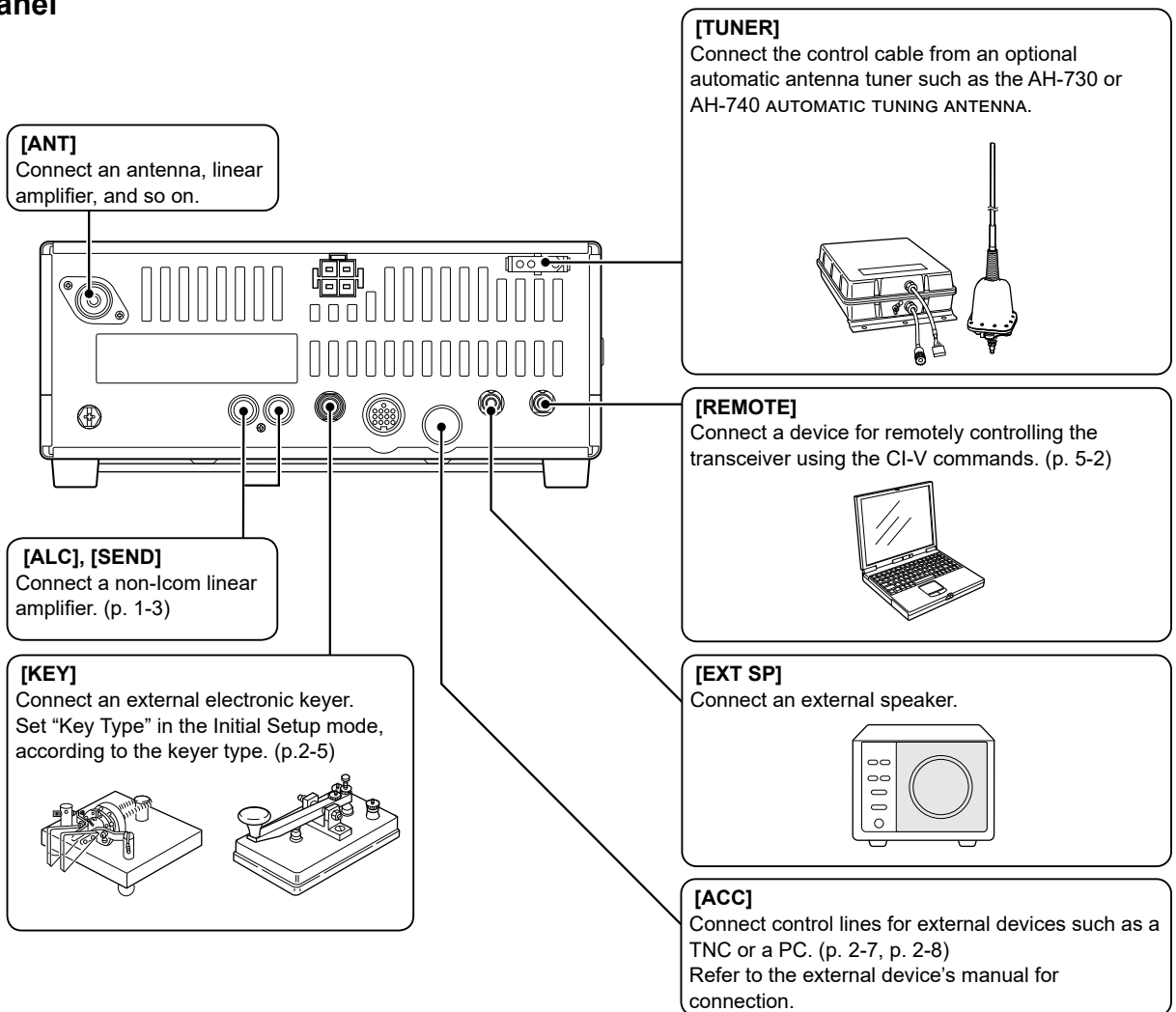
Advanced connections .....	1-2
◇ Front panel .....	1-2
◇ Rear panel.....	1-2
Linear amplifier connections.....	1-3
◇ Connecting an Icom linear amplifier .....	1-3
◇ Connecting a non-Icom linear amplifier.....	1-3

## Advanced connections

### ◇ Front panel



### ◇ Rear panel

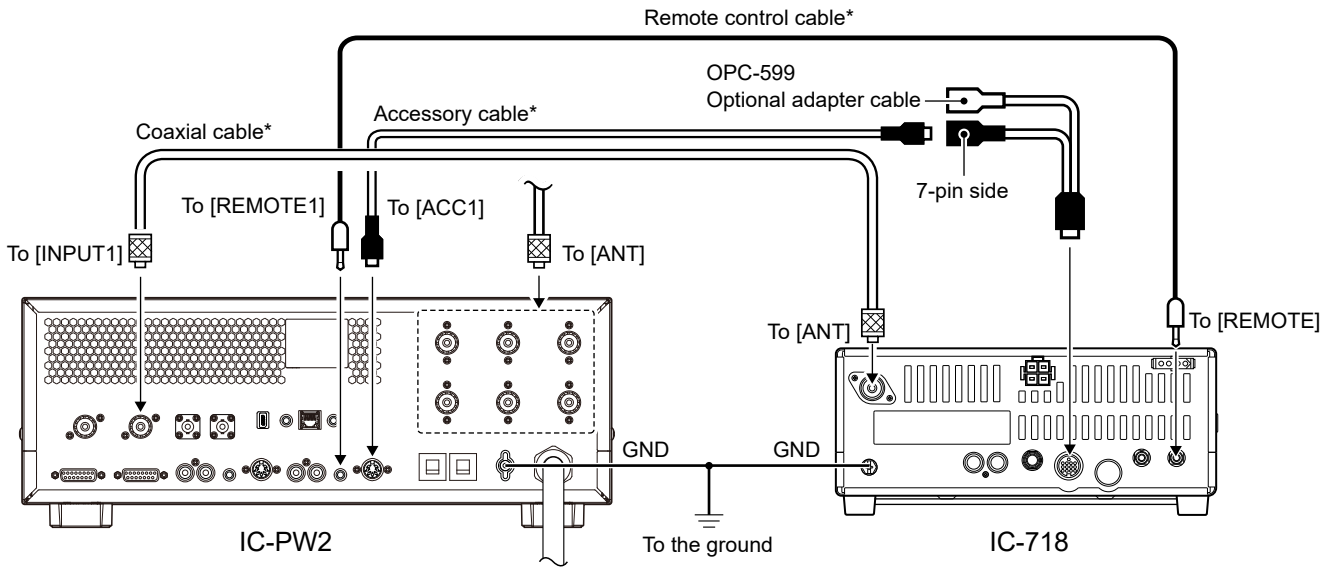


## Linear amplifier connections

### ◇ Connecting an Icom linear amplifier

See the illustration below to connect an Icom linear amplifier. Refer to the amplifier's instruction manual for operation.

**Example:** Connecting the optional IC-PW2 HF/50 MHz ALL BAND 1 kW LINEAR AMPLIFIER



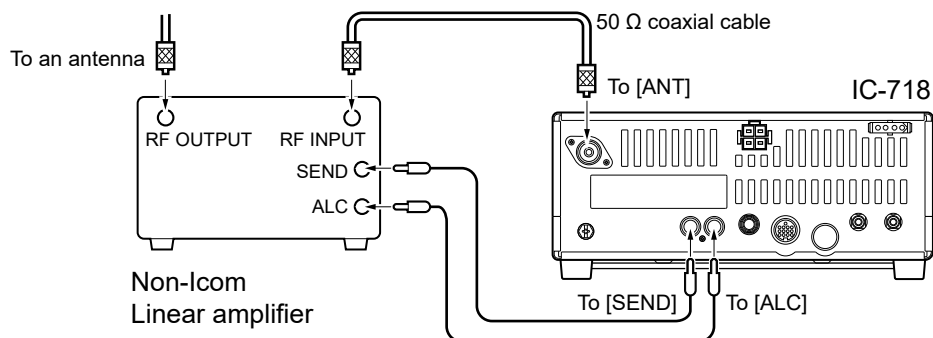
\* Supplied with the linear amplifier.

### ◇ Connecting a non-Icom linear amplifier

**⚠ WARNING!**

- Set the transceiver output power and linear amplifier ALC output level referring to the linear amplifier's manual.
- The ALC input level must be from 0 V to -4 V.
- The transceiver does not accept a positive voltage. Therefore, unmatched ALC and RF power settings could cause a fire or ruin the linear amplifier.

**NOTE:** The specifications for the SEND relay are 16 V DC 2 A. Above this level, larger external relays must be used.

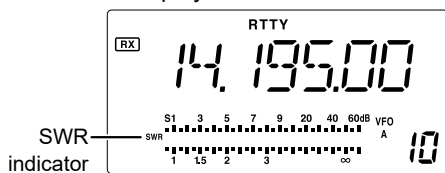


Measuring SWR .....	2-2
Using an external antenna tuner .....	2-3
◇ Optional external tuner operation .....	2-3
Operating CW .....	2-4
◇ Connection for CW .....	2-4
◇ Setting the CW pitch control .....	2-4
◇ The electronic Keyer function .....	2-5
◇ Using the Break-in function .....	2-6
◇ About the CW Reverse mode .....	2-6
Operating RTTY .....	2-7
◇ Connections for RTTY (FSK) .....	2-7
◇ RTTY (FSK) operation .....	2-7
◇ Connections for RTTY (AFSK) .....	2-8
◇ RTTY (AFSK) operation .....	2-8

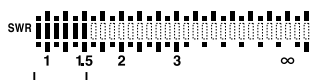
### Measuring SWR

The IC-718 has a built-in circuit to measure antenna SWR. No external equipment or special adjustments are necessary.

1. Confirm that the output power is over 30 W.
2. Push [SET] to display the SWR meter.
  - "SWR" is displayed.



3. Push [MODE] to select CW or RTTY mode.
4. Push down the Key or push [PTT] to transmit, and then read the actual SWR from the meter.
  - $\leq 1.5$ : Well matched antenna.
  - $\geq 1.5$ : Check the antenna or the cable connection, and so on.



Adjust the SWR into this range.

# Using an external antenna tuner

### ◇ Optional external tuner operation

**⚠ DANGER! HIGH VOLTAGE! NEVER** touch the antenna element while tuning or transmitting. Always place it in a secure place.

**CAUTION: DO NOT** operate the external antenna tuner without an antenna connected. The tuner and transceiver will be damaged.

**CAUTION:** Transmitting before tuning may damage the transceiver.

**NEVER** operate the external antenna tuner if it is not grounded.

#### AH-730

The AH-730 matches the IC-718 to a long wire antenna more than 7 m/23 ft long (3.5 MHz and above).

- See page 3-4 for connection details.
- See also the antenna tuner's instruction manual for installation and connection details.

#### AH-740

The optional AH-740 covers 2.5 to 30 MHz range with a supplied whip antenna element. Or when using with the optional NVIS kit, it covers 2.2 to 30 MHz range.

- See page 3-4 for connection details.
- See the AH-740 instruction manual for the installation and connection details.

### Tuner operation

**NOTE:** Antenna tuning is necessary for each frequency.

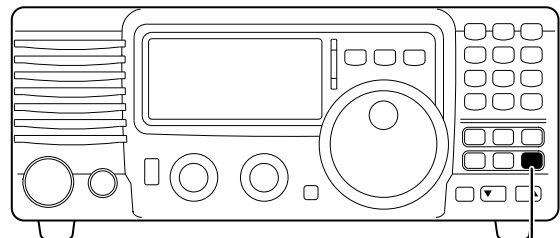
Retune the antenna before transmitting when you change the frequency, even slightly.

### Setting the tuner type

1. Hold down [PWR] for 1 second to turn OFF the transceiver.
2. While holding down [SET], push [PWR] to enter the Initial Set mode.
3. Push [UP▲] or [▼DN] to select "TUNER."
4. Rotate [MAIN DIAL] to select "4."  
① Select "4" when using the AH-730 or AH-740.
5. Hold down [PWR] for 1 second to turn OFF the transceiver.
6. Push [PWR] to turn ON with the new setting.

### Manual tuning

1. Set the operating frequency an HF band.
  - The transceiver will not transmit outside the ham bands.
2. Hold down [TUNER] for 1 second to start a manual tuning.

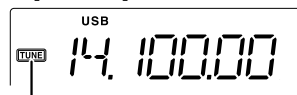


[TUNER]

- "[TUNE]" blinks and "CW" is displayed while tuning.
- "[TUNE]" is continuously displayed when the tuning has been completed.

① When the tuning has not been successful, "[TUNE]" disappears and the antenna tuner is passed through.

① To manually bypass the antenna tuner, push [TUNER] to turn it OFF.



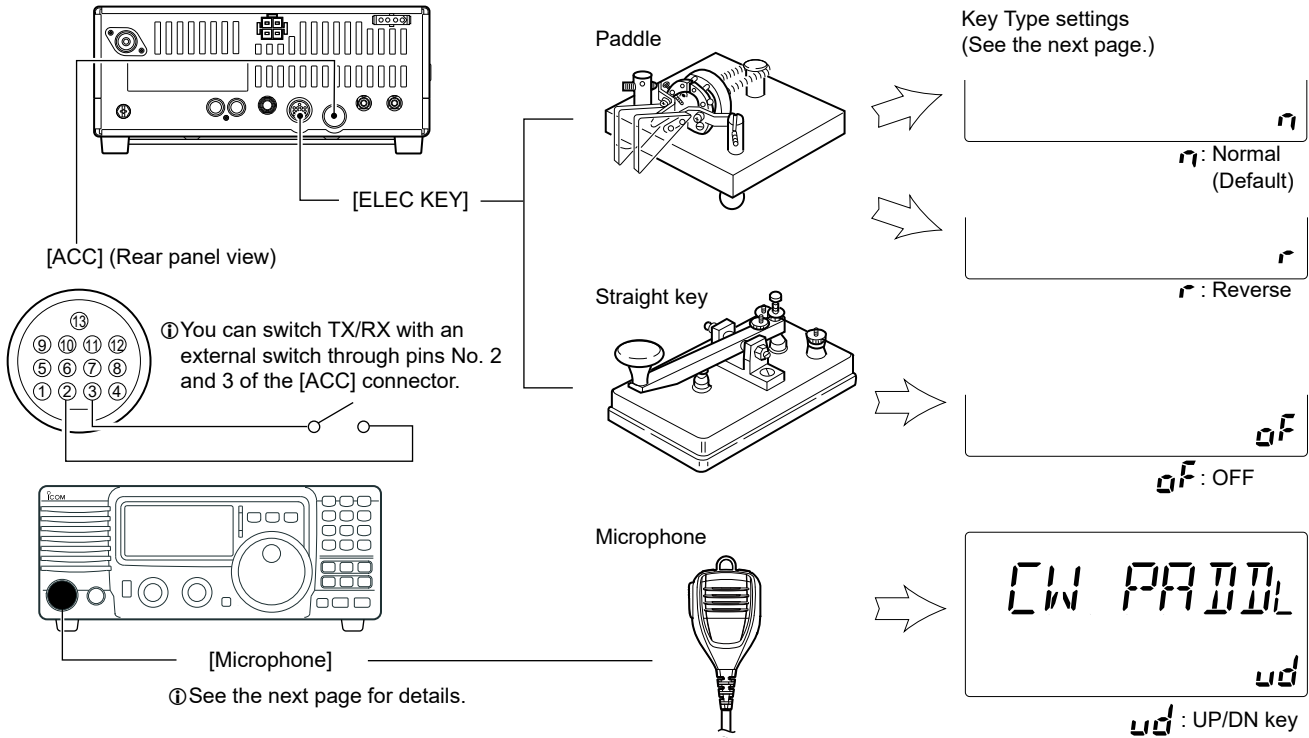
Tuning indicator

- Blinks while tuning.
- Displayed when the tuning is completed.
- Disappears when the tuning could not be completed.



## Operating CW

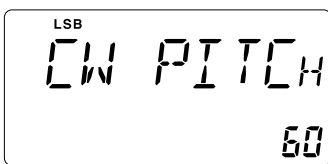
### ◇ Connection for CW



### ◇ Setting the CW pitch control

You can set the received CW audio pitch and the CW side tone to suit your preference, without changing the operating frequency.

1. Hold down [SET] for 1 second to enter the Quick Set mode.
2. Push [▼DN] or [UP▲] to select "CW PITCH."



3. Rotate [MAIN DIAL] to set the pitch to between 30 (300 Hz) and 90 (900 Hz).
4. Push [SET] to exit the Quick Set mode.

### Operating CW

#### ◇ The electronic Keyer function

The IC-718 has an built-in electronic keyer.

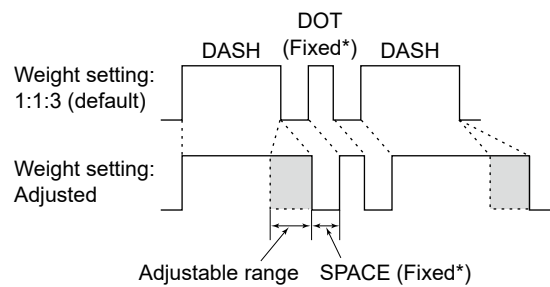
##### Setting the Key type

1. Push [MODE] to select the CW mode.
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 "CW PADDL."
4. Rotate the [MAIN DIAL] to set the paddle type.
  - n: Normal (Default) (for an electronic keyer)
  - r: Reverse (for an electronic keyer)
  - oF: Turns OFF the electronic keyer (for a straight key)
  - ud: For using the microphone's Up/Down keys instead of the paddle
    - ① In this case, you cannot use squeeze keying.
5. Hold down [PWR] for 1 second to turn OFF the transceiver.
6. Push [PWR] to turn ON the transceiver with the revised settings.

##### Setting the keying weight

1. Push [SET] to enter the Quick Set mode.
2. Push [UP▲] or [▼DN] to select "KEY RAT."
3. Rotate the [MAIN DIAL] to set weight to between 2.8 and 4.5.
4. Push [SET] to exit the Quick Set mode.

##### Keying weight example: morse code "K"



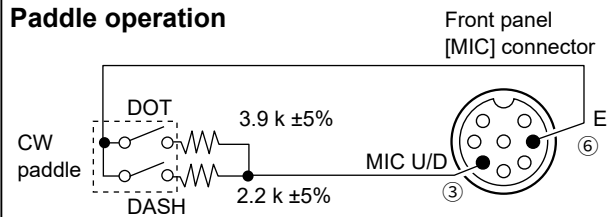
\* SPACE and DOT length can be adjusted in "KEY SPD" setting in the Quick Set mode.

##### Paddle operation from the [MIC] connector

Connect a CW paddle to the [MIC] connector on the front panel to operate the built-in electronic keyer.

① This function is usable only on the [MIC] connector on the front panel.

##### Paddle operation

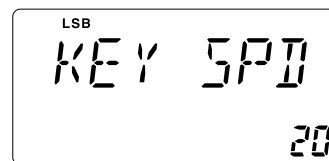


① Connect a straight key to "DOT." side.

##### Setting the key speed

You can set the keying speed of the internal electronic keyer.

1. Hold down [SET] for 1 second to enter the Quick Set mode.
2. Push [▼DN] or [UP▲] to select "KEY SPD."



3. Rotate [MAIN DIAL] to set the key speed to between 6 and 60 wpm.
  - ① Some value may not be selectable.
4. Push [SET] to exit the Quick Set mode.

### Operating CW

#### ◇ Using the Break-in function

Use the Break-in function in the CW mode to automatically switch between transmit and receive when keying. The IC-718 is capable of operating in the Semi Break-in and Full Break-in modes.

##### • Semi Break-in operation

In the Semi Break-in mode, the transceiver transmits when keying, and then automatically returns to receive after a preset time after you stop keying.

① "BK" is displayed while Semi Break-in is selected.

##### • Full Break-in operation

In the Full Break-in mode, the transceiver automatically transmits while keying down, and then immediately returns to receive after keying up.

① "F-BK" is displayed while Full Break-in is selected.

#### Setting the Break-in function

Before using the Break-in function, set the following items in the Quick Set mode.

##### • BK-IN (Break-in)

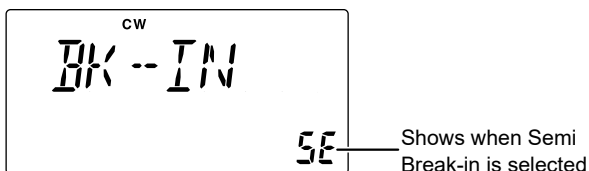
Set the Break-in type from oF (OFF), SE (Semi Break-in), or FL (Full Break-in).

① "BK" is displayed while Semi Break-in is selected or "F-BK" is displayed while Full Break-in is selected.

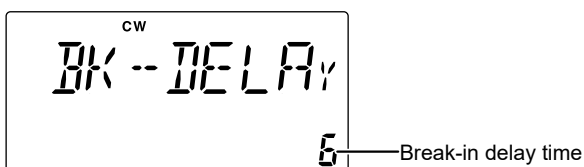
##### • BK-DELAY (Break-in Delay)

Sets the delay time the transceiver returns to receive after the desired delay time after you stop.

1. Push [MODE] to select the CW (or CW-R) mode.
2. Hold down [SET] for 1 second to enter the Quick Set mode.
3. Push [UP▲]/[▼DN] to select the "BK-IN."
4. Rotate [MAIN DIAL] to set the Break-in type.



5. Push [UP▲]/[▼DN] to select the "BK-DELAY."
6. Rotate [MAIN DIAL] to set the Break-in delay time.

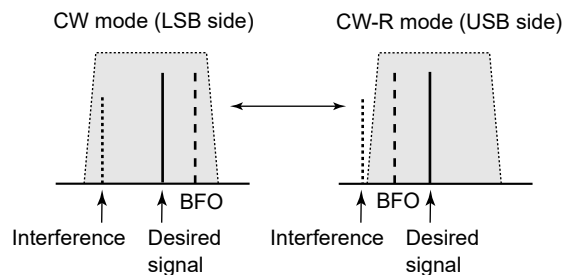


7. To exit the Quick Set mode, push [SET].

#### ◇ About the CW Reverse mode

The CW-R (CW Reverse) mode reverses the receive Beat Frequency Oscillator (BFO) to receive CW signals.

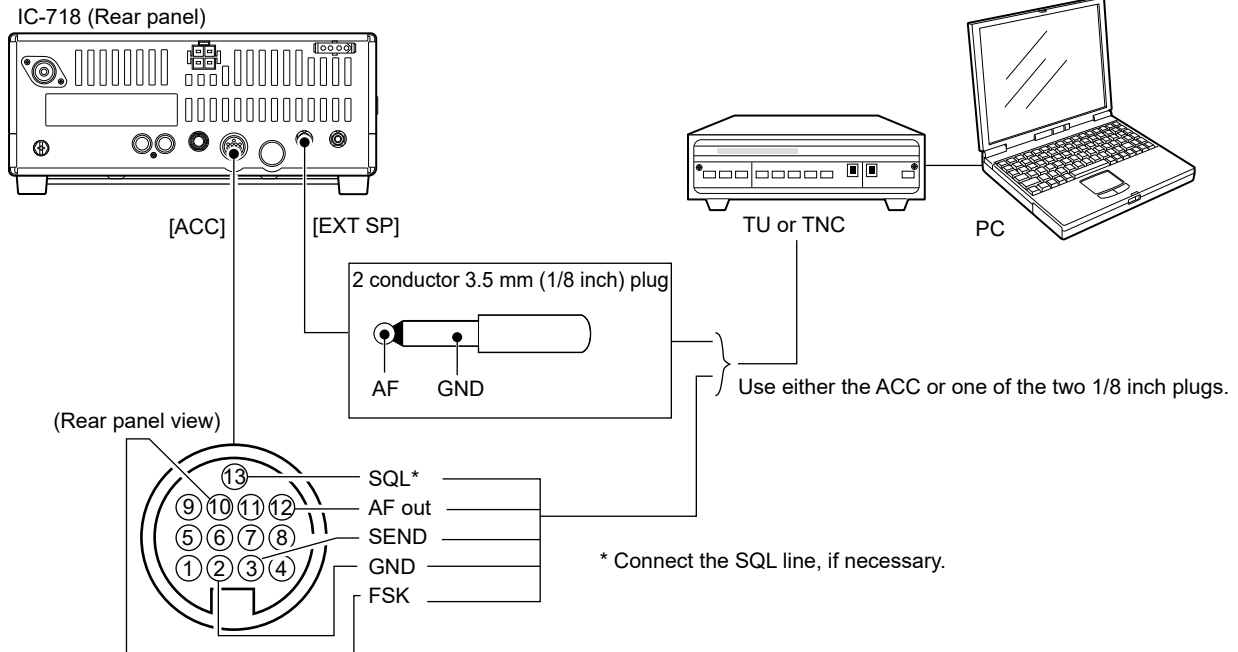
Use this mode when interfering signals are near the desired signal, and you want to use the CW-R to reduce interference.



1. Push [MODE] to select the CW mode.
2. Hold down [MODE] for 1 second to toggle between the CW and CW-R modes.
  - **REV** is displayed when the CW-R mode is selected.

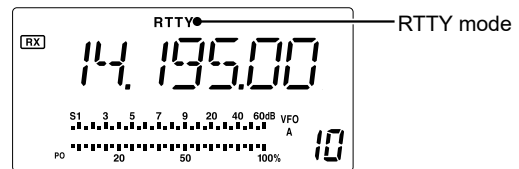
## Operating RTTY

### ◆ Connections for RTTY (FSK)



### ◆ RTTY (FSK) operation

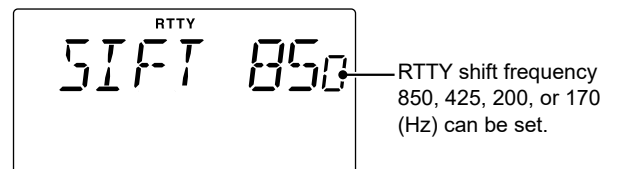
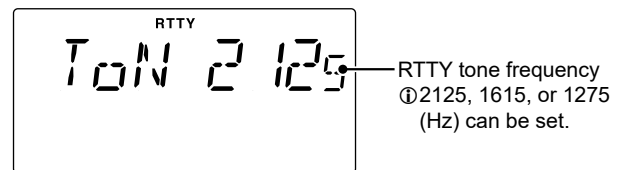
1. Select the RTTY mode by pushing [MODE].  
 ① Hold down [MODE] for 1 second to select RTTY-R (reverse) mode, if necessary.
2. Select the desired tone and shift frequencies.
3. Set the desired operating frequency by rotating [MAIN DIAL].
4. Start using the PC or TNC (TU).



### Presetting for RTTY

Before operating RTTY, set the following items in the Quick Set mode.

1. Hold down [SET] for 1 second to enter the Quick Set mode.
2. Push [UP▲]/[▼DN] to select a setting item.
3. Rotate [MAIN DIAL] to set a value.
  - **Tone frequency** "TON 2125"  
Select a tone frequency.
  - **Shift frequency** "SIFT 170"  
Select the desired shift frequency.
4. Push [SET] to exit the Quick Set mode.

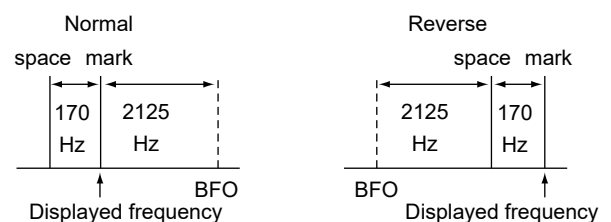


### RTTY reverse mode

Received characters are occasionally garbled when the receive signal is reversed between MARK and SPACE. This reversal can be caused by incorrect TNC connections, settings, commands and so on.

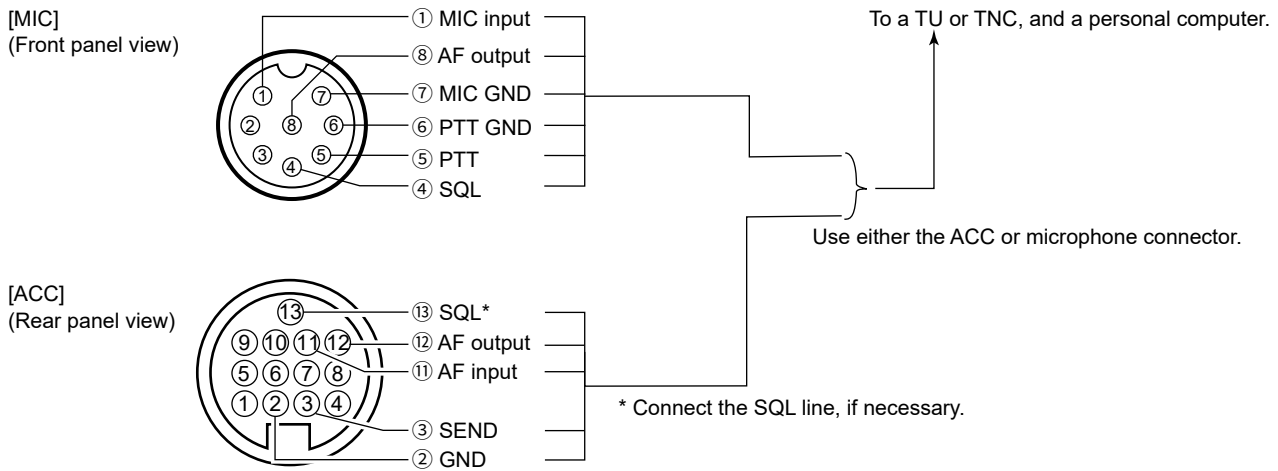
To receive a reversed RTTY signal correctly, select the RTTY-R (RTTY reverse) mode.

- **REV** is displayed when the RTTY reverse mode is selected.



### Operating RTTY

#### ◇ Connections for RTTY (AFSK)



#### ◇ RTTY (AFSK) operation

1. Select the SSB (LSB) mode by pushing [MODE].  
① Usually LSB is used on the HF bands.
2. Select the desired FSK tone frequency, shift frequency, and keying polarity, as described on the previous page.
3. Set the desired operating frequency by rotating [MAIN DIAL].
4. Start using the PC or TNC (TU).

## Section 3      OPTIONS

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Options .....	3-2
Carrying handle .....	3-3
Mobile mounting bracket .....	3-3
Connecting an external antenna tuner .....	3-4

### Options

(As of January 2025)

#### Microphones

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**HM-219** HAND MICROPHONE

The same as supplied.

**SM-30** DESKTOP MICROPHONE

**SM-50** DESKTOP MICROPHONE

#### Speakers

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**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

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**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

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**IC-PW2** LINEAR AMPLIFIER

#### Cables

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**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 ft

**OPC-2321** CONTROL CABLE

To connect the AH-740

Approximately 6 m, 19.7 ft

#### Others

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**MB-23** CARRYING HANDLE

**MB-118** MOBILE MOUNTING BRACKET

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

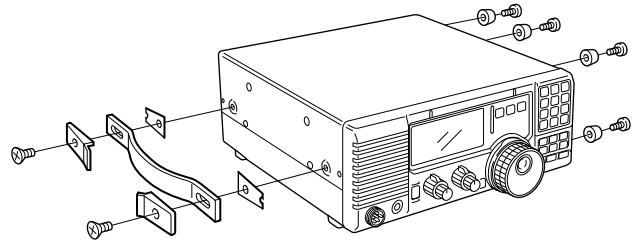
## 3 OPTIONS

### Carrying handle

The MB-23 CARRYING HANDLE allows you to easily carry and transport the transceiver.

Attach the MB-23 with the supplied rubber feet, as shown to the right.

**NOTE:** Use only the supplied screws to attach the handle. Otherwise, the handle may not be attached correctly and may drop the transceiver.

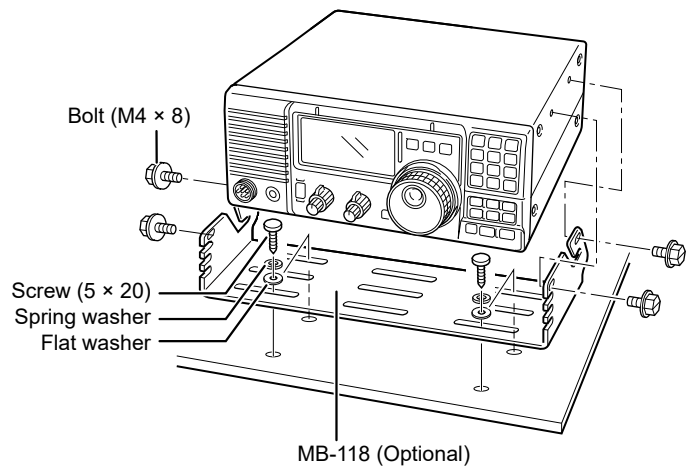


### Mobile mounting bracket

The MB-118 MOBILE MOUNTING BRACKET can be used for fixed mounting.

Securely mount the transceiver with the 4 supplied screws (5 × 20) to a thick surface that can support more than 3.8 kg (8.4 lb).

**CAUTION: DO NOT** use non-supplied screws (longer than 8 mm; 5/16 in) or bolts. Otherwise, the internal equipment of the transceiver may be damaged.





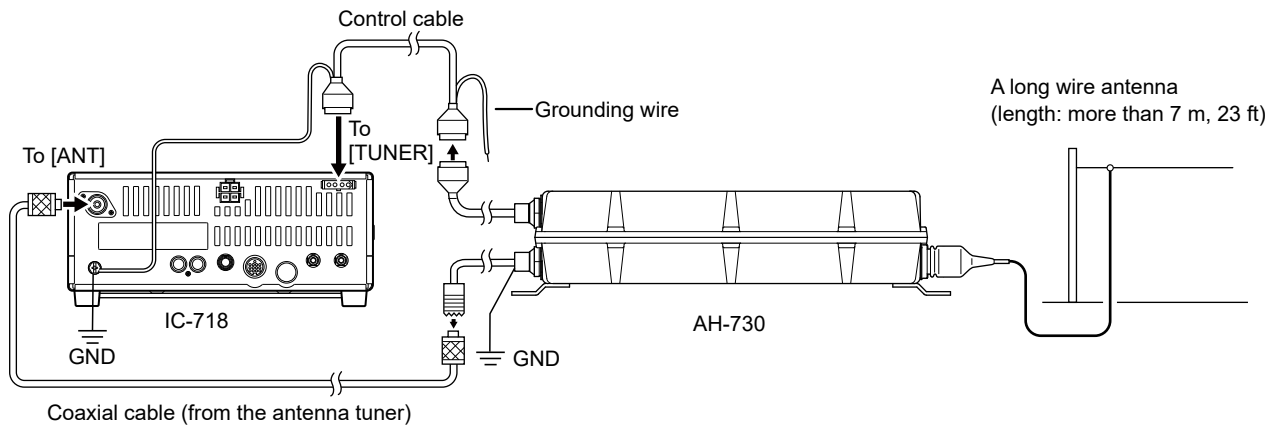
## Connecting an external antenna tuner

You can connect an optional external antenna tuner. See the antenna tuner's manual for details.

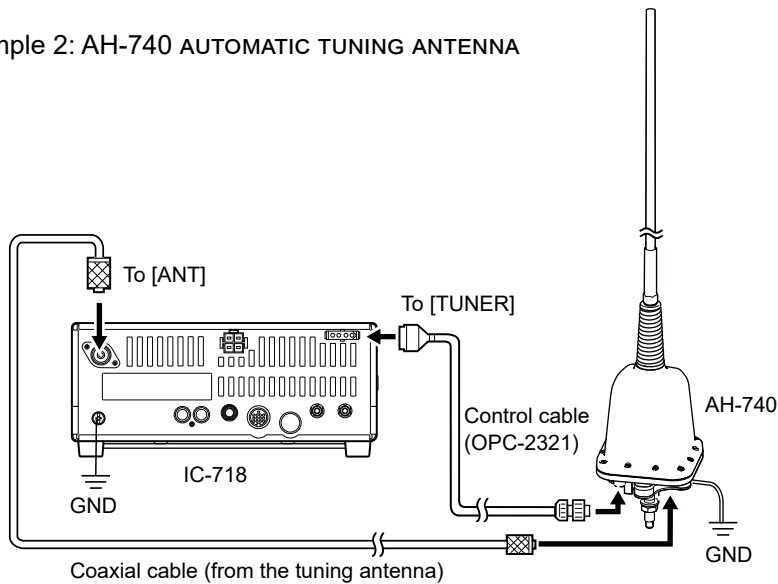
**DO NOT** connect two or more antenna tuners at the same time. Both tuners will not function correctly.

**NOTE:** Before connecting the antenna tuner, turn OFF the transceiver. Otherwise, the transceiver and the antenna tuner may be damaged.

### Example 1: AH-730 AUTOMATIC ANTENNA TUNER



### Example 2: AH-740 AUTOMATIC TUNING ANTENNA




[ACC].....	4-2
[MIC].....	4-3
[PHONES] .....	4-3
[DC 13.8V].....	4-3
[ANT] .....	4-3
[KEY] .....	4-3
[REMOTE] .....	4-4
[EXT SP].....	4-4
[TUNER].....	4-4
[SEND] .....	4-4
[ALC] .....	4-4

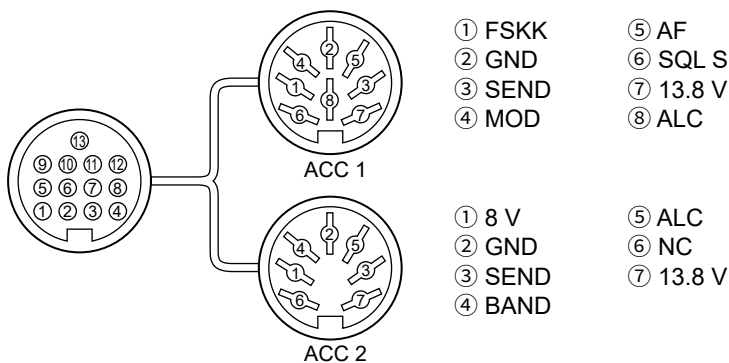
## 4 CONNECTOR INFORMATION

### [ACC]

Connects to an external equipment or a PC to control an external unit or the transceiver.

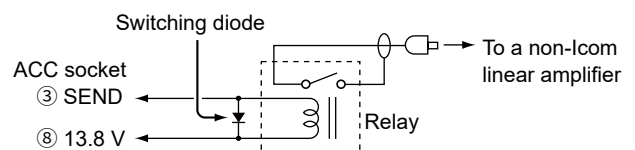
ACC	PIN No.	NAME	DESCRIPTION	SPECIFICATIONS
 <p>Rear panel view</p>	1	8 V	Regulated 8 V output.	Output voltage: 8 V $\pm$ 0.3 V Output current: Less than 10 mA
	2	GND	Connects to ground.	—
	3	SEND	Input/output pin. Goes to ground when transmitting. When grounded, transmits.	Ground level: $-0.5$ V $\sim$ $+0.8$ V Input current: Less than 20 mA
	4	BDT	Data line for the optional AT-180.	—
	5	BAND	Band voltage output. (Varies with amateur band)	Output voltage: 0 $\sim$ 8.0 V
	6	ALC	ALC voltage input.	Control voltage: $-4$ $\sim$ 0 V Input impedance: More than 10 k $\Omega$
	7	NC	—	—
	8	13.8 V	13.8 V output when power is ON.	Output current: Less than 1 A
	9	TKEY	Key line for the AT-180.	—
	10	FSKK	RTTY keying input.	Ground level: $-0.5$ $\sim$ 0.8 V Input current: Less than 10 mA
	11	MOD	Modulator input.	Input impedance: 10 k $\Omega$ Input level: Approximately 100 mV rms
	12	AF	AF detector output. Fixed, regardless of [AF] position.	Output impedance: 4.7 k $\Omega$ Output level: 100 $\sim$ 300 mV rms
	13	SQL S	Squelch output. Goes to ground when squelch opens.	SQL open: Less than 0.3 V/5 mA SQL closed: More than 6.0 V/100 $\mu$ A

#### When using the OPC-599 ADAPTER CABLE



When the SEND terminal controls an inductive load, such as a relay, a counter-electromotive force can malfunction or damage the transceiver. To prevent this, we recommend adding a switching diode, such as an 1SS133, on the load side of the circuit to absorb the counter-electromotive force. When the diode is added, a delay in relay switching may occur. Be sure to check its switching action before operating.

#### (Example) ACC socket

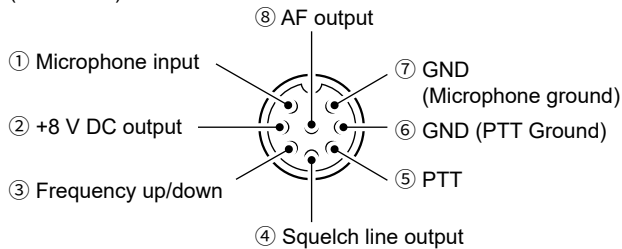


## 4 CONNECTOR INFORMATION

### [MIC]

Connect the supplied microphone.  
8-pin connector (600 Ω)

(Front view)

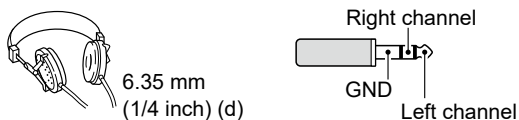


[MIC] PIN No.	FUNCTION	DESCRIPTION
2	+8 V DC output	Maximum 10 mA
3	Frequency up	Ground
	Frequency down	Ground through 470 Ω
4	Squelch open	"LOW" level
	Squelch close	"HIGH" level

**CAUTION: DO NOT** short the pin 2 to ground, otherwise the internal 8 V regulator may be damaged. DC voltage is also applied to the pin 1 for a microphone operation. Be careful when using a non-Icom microphone.

### [PHONES]

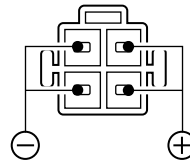
Connect standard stereo headphones:  
Output impedance: 8 Ω



① While headphones are connected, both the internal and external speakers are deactivated.

① If you use headphones with high impedance, the output audio may be too loud.

### [DC 13.8V]

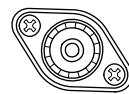


Rear panel view

Accepts the regulated DC power for 13.8 V DC ±15% through the supplied DC power cable.

**⚠ WARNING! NEVER** reverse the DC power cable polarity.

### [ANT]



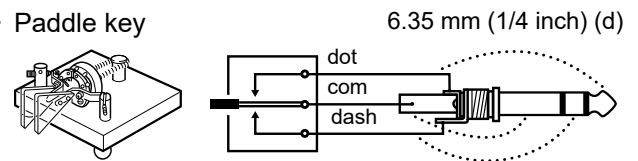
Connect an antenna for HF bands with a PL-259 plug.  
Input/Output impedance: 50 Ω  
(unbalanced)

### [KEY]

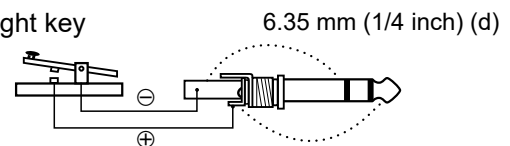
Connect a Paddle key or Straight key.

① You can select the key type in "Key Type" item in the Initial Set mode.

- Paddle key



- Straight key

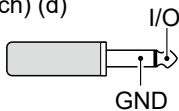


## 4 CONNECTOR INFORMATION

### [REMOTE]

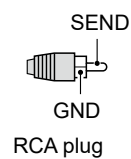
Connects to a PC for remote control using CI-V commands.

3.5 mm (1/8 inch) (d)



### [SEND]

An external unit controls the transceiver. When the SEND pin goes to ground, the transceiver transmits. The terminal goes low when the transceiver transmits.



### [EXT SP]

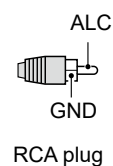
Connects an external speaker.  
2-conductor, 3.5 mm (1/8 inch) (d)  
Output impedance: 8 Ω

① The internal speaker is deactivated while an external speaker is connected.

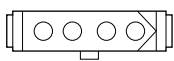
### [ALC]

When operating with a non-Icom linear amplifier, input ALC voltage (-4 ~ 0 V) from the linear amplifier.

The output impedance and output level differ, depending on the amplifier that is used.



### [TUNER]



Accepts the control cable from an optional AH-730 or AH-740 automatic antenna tuner.

# Section 5 CONTROL COMMANDS

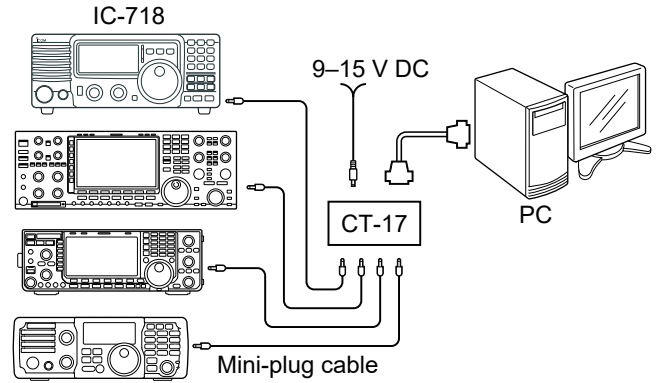
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- ◇ About the data format.....5-2
- ◇ Command table.....5-3
- ◇ Command formats.....5-5

## 5 CONTROL COMMANDS

The transceiver's operating frequency, mode can be remotely controlled using a PC. The Icom Communications Interface V (CI-V) controls the transceiver. Set the "CI-V address," "CI-V Baud Rate," and "CI-V transceive" function in the Initial set mode. (Refer to the basic manual.)

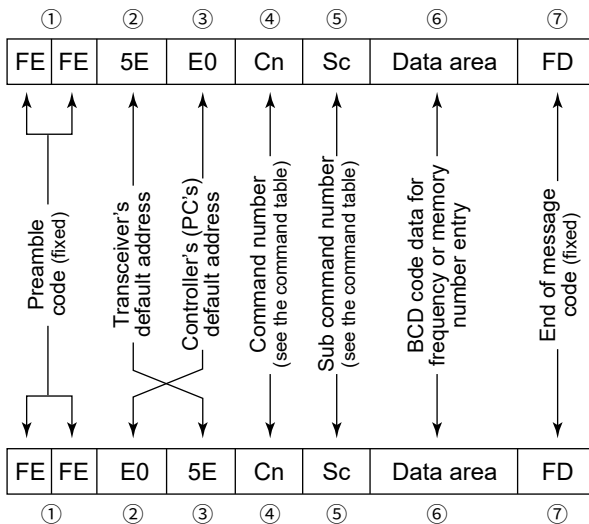
When you remotely control the transceiver, use an optional CT-17 CI-V LEVEL CONVERTER (discontinued product) or cable (user supplied) to connect the PC. The transceiver can be connected through the CT-17 to a PC equipped with an RS-232C port.



### ◆ About the data format

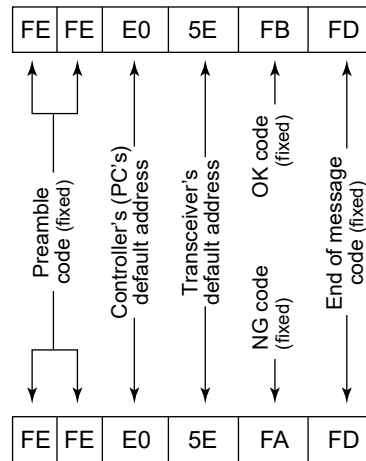
The CI-V system can be written using the following data formats. Data formats differ according to command numbers. A data area or sub command is added for some commands.

#### Controller (PC) to IC-718



#### IC-718 to controller (PC)

#### OK message to controller (PC)



#### NG message to controller (PC)

## 5 CONTROL COMMANDS

### ◇ Command table

Cmd.	Sub cmd.	Data	Description
00		See p. 5-5	Send frequency data (transceive)
01		See p. 5-5	Send mode data (transceive)
02		See p. 5-5	Read the band edge frequencies
03		See p. 5-5	Read the operating frequency
04		See p. 5-5	Read the operating mode
05		See p. 5-5	Set the operating frequency
06		See p. 5-5	Set the operating mode
07			Select the VFO mode
	00		Select VFO A
	01		Select VFO B
	A0		Equalize VFO A and B ①Valid only in the VFO mode.
	B0		Exchange VFO A and B ①Valid only in the VFO mode.
08			Select the Memory mode
	00 01 ~ 00 99		Set Memory CH (00 01=M-CH01, 00 99=M-CH99)
	01 00		Select program scan edge channel P1
	01 01		Select program scan edge channel P2
09			Memory write
0A			Memory copy to VFO
0B			Memory clear
0E	00		Cancel the Scan
	01		Start a Program/Memory scan
	D0		Set Scan Resume function OFF
	D3		Set Scan Resume function ON
0F	00		Set Split function OFF
	01		Set Split function ON
10*		00 ~ 06	Send/read the tuning step (00=OFF (10Hz or 1Hz), 01=100Hz, 02=1kHz, 03=5kHz, 04=9kHz, 05=10kHz, 06=100kHz)
11*	00	00/01	Send/read attenuator OFF setting (00=OFF (0dB), 01=20dB)
14*	01	00 00 ~ 02 55	Send/read the AF gain (00 00=Minimum ~ 02 55=Maximum)
		00 00 ~ 02 55	Send/read the RF gain (00 00=Minimum ~ 02 55=Maximum)
	03	00 00 ~ 02 55	Send/read the squelch level (00 00=Minimum ~ 02 55=Maximum)
		00 00 ~ 02 55	Send/read the NR level (00 00=Minimum ~ 02 55=Maximum)
	09	00 00 ~ 02 55	Send/read CW pitch (00 00=300Hz ~ 01 28=600Hz ~ 02 55=900Hz (in 10Hz steps))
		00 00 ~ 02 55	Send/read the selected band's RF Power (00 00=Minimum ~ 02 55=Maximum)
	0B	00 00 ~ 02 55	Send/read the MIC gain (00 00=Minimum ~ 02 55=Maximum)
	0C	00 00 ~ 02 55	Send/Read the KEY speed (00 00=6 wpm ~ 02 55=60 wpm)
0F	00 00 ~ 02 55	Send/Read the BK-IN Delay (00 00=Minimum ~ 02 55=Maximum)	

Cmd.	Sub cmd.	Data	Description
15	01	00/01	Read SQL Open/Close (00=Close, 01=Open)
	02	00 00 ~ 02 55	Read S-meter level (00 00=less than S0, 02 55=S9+60 or over)
		00 00 ~ 02 55	Read Po meter level (00 00=no transmission, 02 31=100 W (approximate))
	12	00 00 ~ 02 55	Read SWR meter level (00 00=SWR1, 02 55=antenna open)
	13	00 00 ~ 02 55	Read ALC meter level (00 00=minimum, 01 20=S9 (approximate))
	16*	02	00/01
22		00/01	Read/send Noise blanker (00=OFF, 01=ON)
40		00/01	Read/send Noise reduction (00=OFF, 01=ON)
41		00/01	Read/send the Auto Notch function (00=OFF, 01=ON)
44		00/01	Read/send the Compressor function (00=OFF, 01=ON)
46		00/01	Read/send the VOX function (00=OFF, 01=ON)
19	00	00/01/02	Read/send the Break-In function (00=OFF, 01=SEMI, 02=FULL)
			Read the transceiver ID

\*(Asterisk) Send/read data



## 5 CONTROL COMMANDS

### ◇ Command table

Cmd.	Sub cmd.	Data	Description
1A*	01	00 00 ~ 02 55	Read/send VOX gain (00 00=1 ~ 02 51=99, 02 55=H)
		00 00 ~ 00 20	Read/send VOX delay (00 00=0, 00 20=20 second)
		00 00 ~ 02 55	Read/send Anti VOX level (00 00=1 ~ 02 51=99, 02 55=H)
		00 28 ~ 00 45	Read/send Key ratio (00 28=2.8 ~ 00 45=4.5)
		00 ~ 02	Read/send RTTY mark tone (00=1275, 01=1615, 02=2125)
		00 ~ 03	Read/send RTTY shift (00=170, 01=200, 02=425, 03:850)
		00 ~ 02	Read/send Dimmer (00=OFF, 01=Lo, 02=Hi)
		00 00 ~ 02 55	Read/send Noise blanker level (00 00=1 ~ 02 51=99, 02 55=H)
		00 ~ 02	Read/send Meter function (00=Po, 01=ALC, 02=SWR)
		See p. 5-5.	Read/send Mode select 00=OFF, 01=RX, 02=RX&TX
		00 00 ~ 02 55	Read/send RF/SQL VR (00=SQL, 01=AUTO, 02=RF&SQL)
		00/01	Read/send Beep setting (00=OFF, 01=ON)
		00 00 ~ 02 55	Read/send Beep level (00 00=1 ~ 02 55=99)
		00/01	Read/send Band Edge Beep setting (00=OFF, 01=ON)
		00 00 ~ 02 55	Read/send Side Tone level (00 00=1 ~ 02 55=99)
		00/01	Read/send Meter peak hold setting (00=OFF, 01=ON)
		00/01	Read/send Scan speed (00=Lo, 01=Hi)
		00/01	Read/send AM Noise Blanker setting (00=OFF, 01=ON)
		00/01	Read/send Auto TS setting (00=OFF, 01=ON)
		00 ~ 03	Read/send KeyType (00=n, 01=r, 02=oF, 03=ud)
		00/01	Read/send Auto tune setting (00=OFF, 01=ON)
		00/01	Read/send PTT Tune setting (00=OFF, 01=ON)
		00/01	Read/send Speech Language (00=En (English), 01=JP (Japanese))
		00/01	Read/send Speech Speed (00=Lo (slow), 01=HI (Fast))
		00/01	Read/send Speech S-meter level setting (00=OFF, 01=ON)
		00/01	Read/send CI-V Transceive setting (00=OFF, 01=ON)
		00/01	Read/send CI-V 731 mode (00=OFF, 01=ON)
		00 ~ 05	Read/send Optional Filter selection (00=no, 01=52A, 02=53A, 03=96, 04=222, 05=257)
		00/01	Read/send Filter Expansion (00=OFF, 01= ON)
		00 ~ 07	Read/send Expanded filter selection (Wide) (00=no, 01=52A, 02=53A, 03=96, 04=222, 05=257, 06=NoR, 07=THU)
		00 ~ 07	Read/send Expanded filter selection (Narrow) (00=no, 01=52A, 02=53A, 03=96, 04=222, 05=257, 06=NoR, 07=THU)

Cmd.	Sub cmd.	Data	Description
1C*	01	00/01	Send/read the transceiver's status (00=RX, 01=TX)

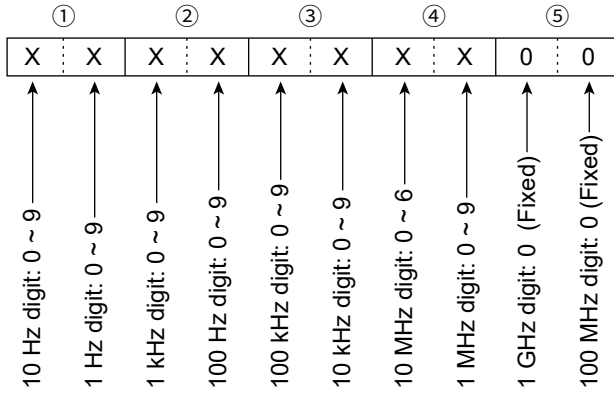
\*(Asterisk) Send/read data

# 5 CONTROL COMMANDS

## ◇ Command formats

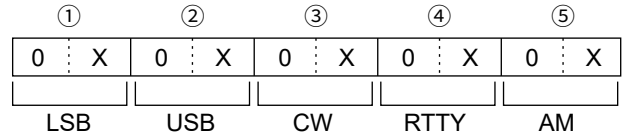
### • Operating frequency

Command: 00, 03, 05



### • Mode select

Command: 1A 10



Code	Mode select
00	OFF
01	RX
02	RX & TX

### • Operating mode

Command: 01, 04, 06

Code	Operating mode
00	LSB
01	USB
02	AM
03	CW
04	RTTY
07	CW-R
08	RTTY-R

### • Band edge frequency settings

Command: 02

