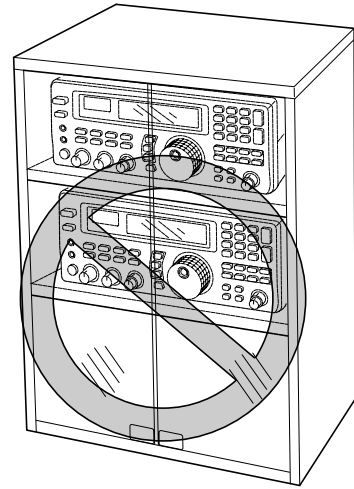


■ Mounting installation

◇ Location

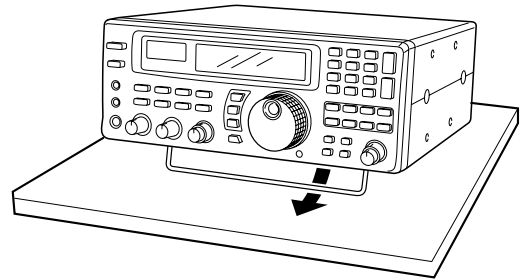
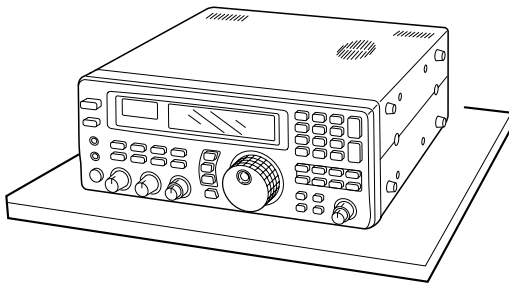
Select a location for the receiver that allows adequate air circulation and access to the front and rear panels. Do not place in areas subject to extreme heat, cold, or vibrations, or near TV sets, radios and electromagnetic sources.

Be careful of the internal temperature of the receiver. Installation into a rack or other enclosed area may increase the internal temperature over the useable temperature range. Specifications are not guaranteed under such conditions.



◇ Receiver stand

The base of the IC-R8500 has an adjustable stand for desktop use. Set the stand to one of two angles depending on your operating conditions.

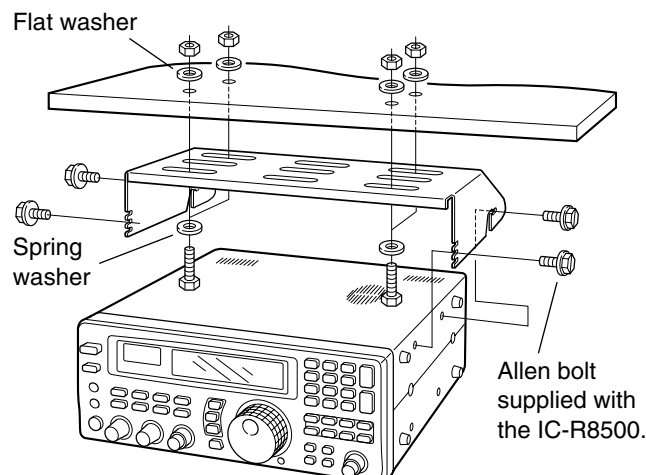


◇ Optional bracket and carrying handle

• Mounting bracket

An optional mounting bracket is available to install the radio under a table, on a wall, in a vehicle, etc.

Select an area to mount the receiver keeping in mind that the weight of the IC-R8500 is approx. 7 kg.

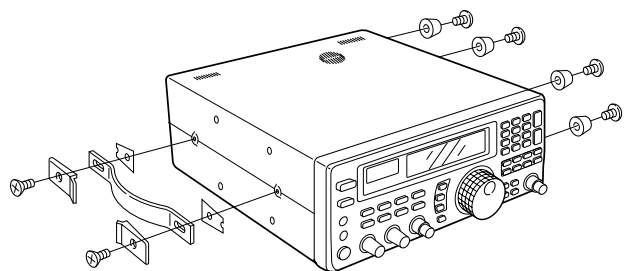


• Carrying handle

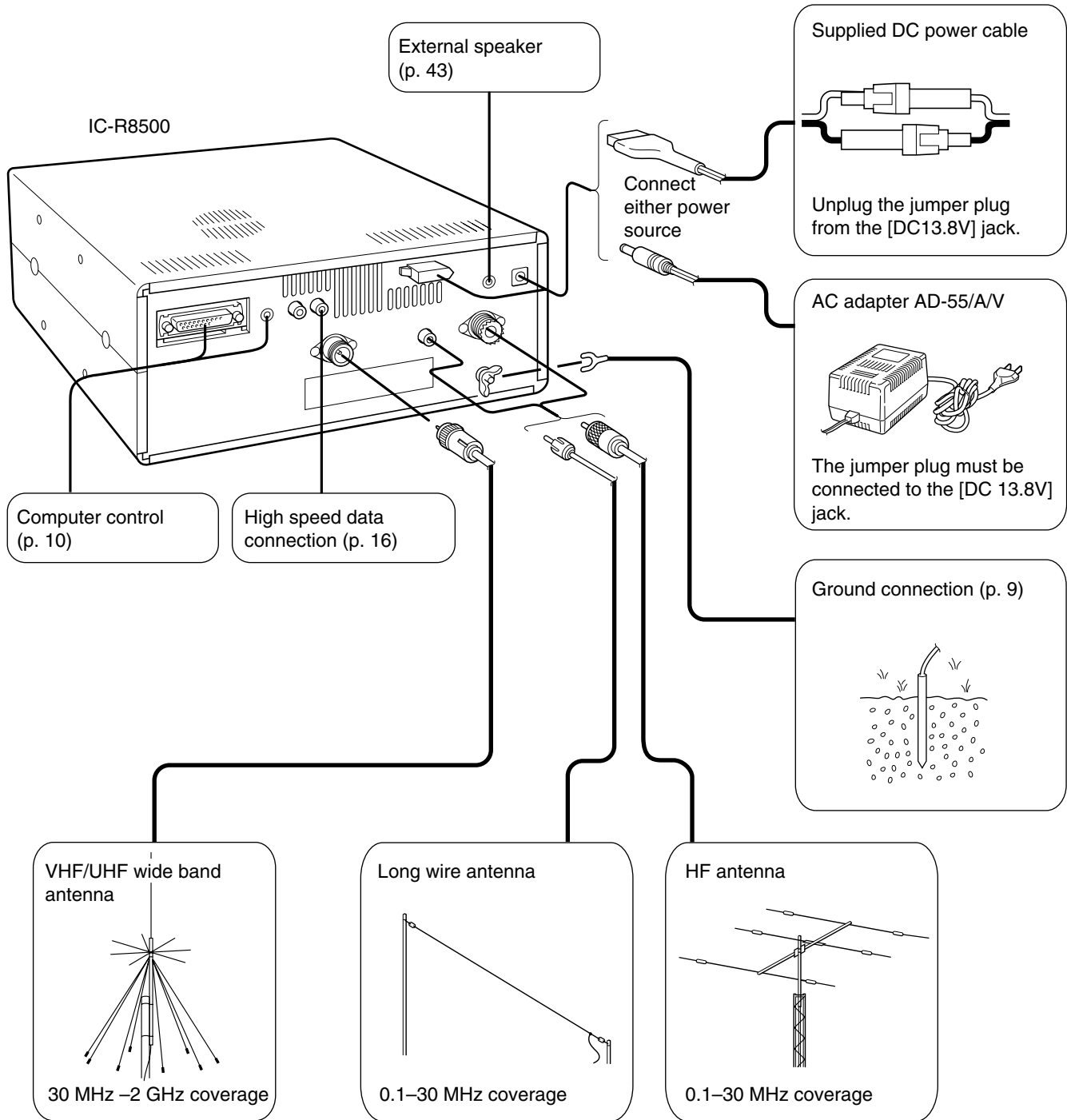
An optional handle allows you to easily carry and transport the receiver.

Attach the MB-23 CARRYING HANDLE with the supplied rubber feet as shown.

CAUTION: The screws supplied with the MB-23 cannot be used with the IC-R8500. Use the screws supplied with the IC-R8500 when attaching the MB-23.



Required connections



The optional AH-7000 is available for 25 MHz to 1.3 GHz coverage.

Select the active antenna connector in quick set mode (p. 31)

■ Antenna connection

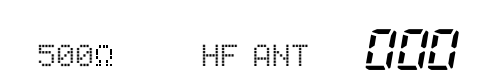
Antennas play a very important role in receiver operation. Connecting a poor quality antenna to the IC-R8500 will result in less than optimum performance.

The IC-R8500 requires at least 2 antennas for full frequency coverage: one for 0.1 to 30 MHz and one for 30 to 2000 MHz.

◇ Using a long wire antenna for HF bands

The IC-R8500 has a 500 Ω phono (RCA) antenna connector for the HF bands. When using a long wire antenna, instead of a 50 Ω matched antenna, use one as long as possible (at least 10 m, 33 ft) and select the active connector as follows:

- ① Push [SLEEP/SET] for 1 sec. to enter quick set mode.
- ② Rotate the [M-CH] selector to select the "HF ANT" item.
- ③ Rotate the main dial to select the antenna connector.
- ④ Push [SLEEP/SET] momentarily to exit quick set mode.

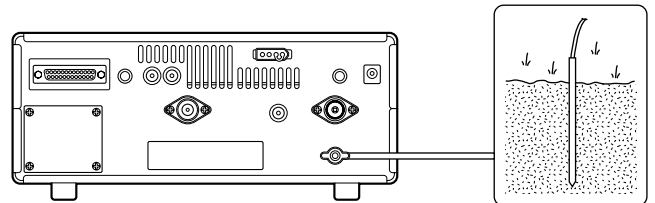


■ Grounding

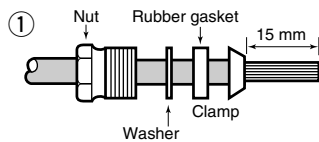
⚠ WARNING: NEVER use a gas pipe or electrical conduit pipe for grounding.

To prevent accidents involving electricity and interference from transceivers, ground the receiver through the [GND] terminal on the rear panel.

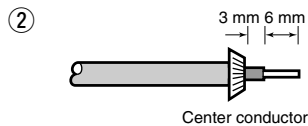
For best results, connect a heavy gauge cable to a water pipe or long, earth-sunk copper rod. Make the distance between the [GND] terminal and ground as short as possible.



TYPE-N CONNECTOR INSTALLATION EXAMPLE

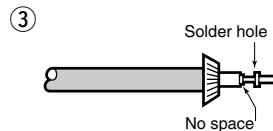


Slide the nut, washer, rubber gasket and clamp over the coaxial cable, then cut the end of the cable evenly.

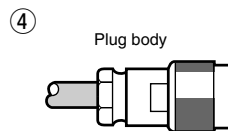


Strip the cable and fold the braid back over the clamp.

(10 mm ≈ 3/8 in)

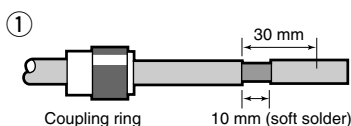


Soft solder the center conductor. Install the center conductor pin and solder it.

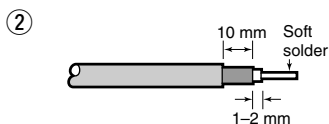


Carefully slide the plug body into place aligning the center conductor pin on the cable. Tighten the nut onto the plug body.
 • Be sure the center conductor is the same height as the plug body.

PL-259 CONNECTOR INSTALLATION EXAMPLE

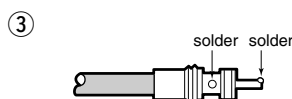


Slide the coupling ring down. Strip the cable jacket and soft solder.

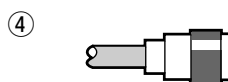


Strip the cable as shown at left. Soft solder the center conductor.

(10 mm ≈ 3/8 in)



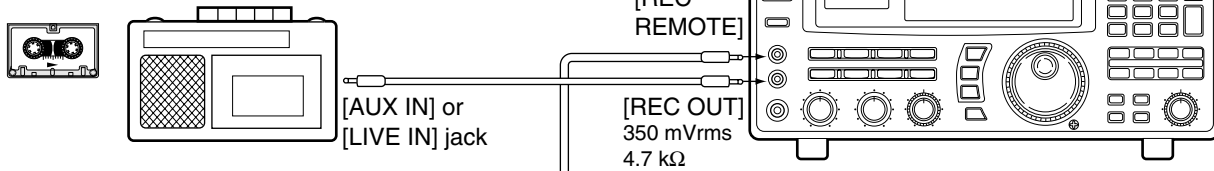
Slide the connector body on and solder it.



Screw the coupling ring onto the connector body.

■ Tape recorder connections

The [REC OUT] jack has 350 mV rms/4.7 kΩ output for connection to other audio equipment.



[REC REMOTE] jack: Grounds when a signal is received and squelch opens. If a tape recorder has a control terminal, this jack can be used for recording control. (2 A/DC max.)

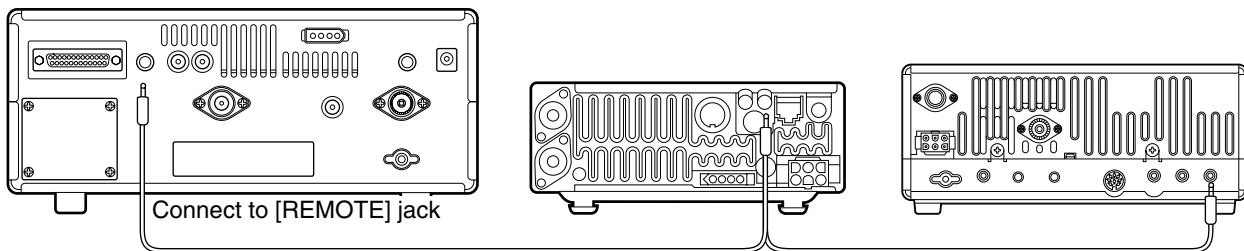
✓ Convenient:

When an optional UT-102 VOICE SYNTHESIZER UNIT is installed, detected frequencies during scanning can be recorded. See pgs. 31, 32 for settings.

■ Transceive function

Icom CI-V transceivers or receivers can be connected via the [REMOTE] jack. The frequency and mode become the same* when either radio is changed.

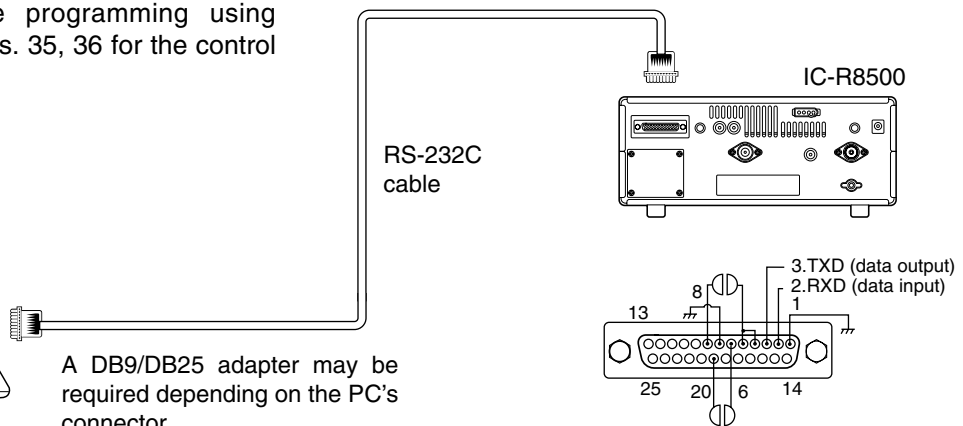
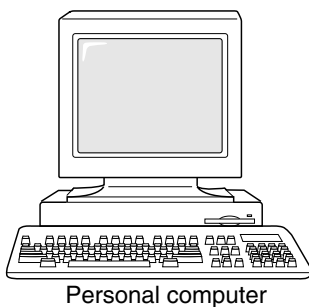
*When a set frequency is out-of-range for one of the connected transceivers or receivers, the connected radio's frequency/mode does not change.



•Be sure the "CI-V TRAN" item is turned ON in initial set mode (p. 32).

■ Connecting to a PC

The IC-R8500 can connect directly to a personal computer providing control of multiple functions such as instant frequency/name programming using appropriate software. See pgs. 35, 36 for the control command table.



A DB9/DB25 adapter may be required depending on the PC's connector.

■ Data demodulation terminal

See p. 16 for details regarding connection and operation.