

■ Unpacking

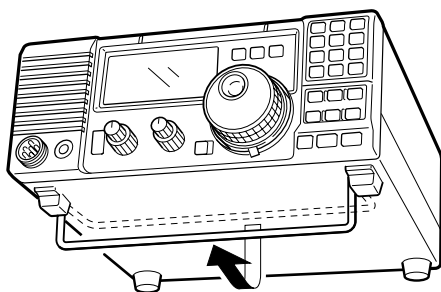
After unpacking, immediately report any damage to the delivering carrier or dealer. Keep the shipping cartons.

For a description and a diagram of accessory equipment included with the IC-718, see 'Supplied accessories' on p. 1 of this manual.

■ Selecting a location

Select a location for the transceiver that allows adequate air circulation, free from extreme heat, cold, or vibrations, and away from TV sets, TV antenna elements, radios and other electro-magnetic sources.

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

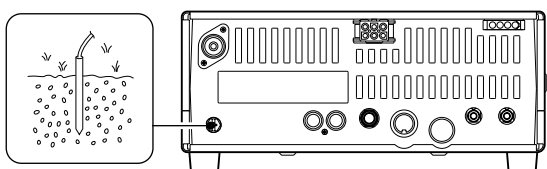


■ Grounding

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

For best results, connect a heavy gauge wire or strap to a long earth-sunk copper 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.

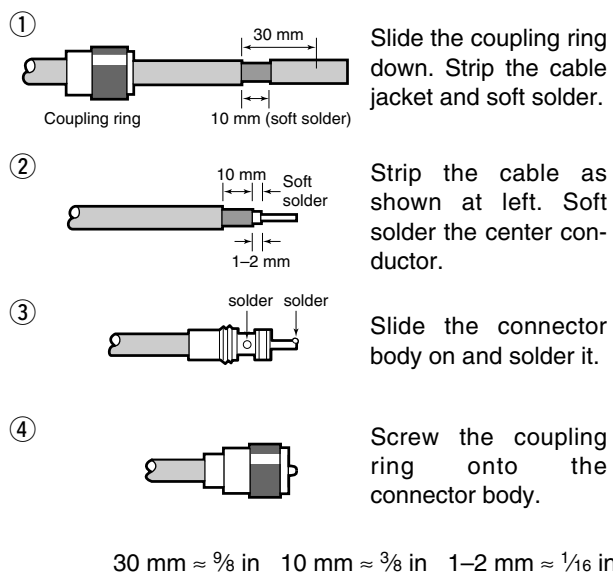


■ Antenna connection

For radio communications, the antenna is of critical importance, along with output power and sensitivity. Select antenna(s), such as a well-matched 50 Ω antenna, and feedline. 1.5:1 or better of Voltage Standing Wave Ratio (VSWR) is recommended for your desired band. Of course, the transmission line should be a coaxial cable.

⚠ CAUTION: Protect your transceiver from lightning by using a lightning arrestor.

PL-259 CONNECTOR INSTALLATION EXAMPLE



Antenna SWR

Each antenna is tuned for a specified frequency range and SWR may be increased out-of-range. When the SWR is higher than approx. 2.0:1, the transceiver's power drops to protect the final transistor. In this case, an antenna tuner is useful to match the transceiver and antenna. Low SWR allows full power for transmitting even when using the antenna tuner. The IC-718 has an SWR meter to monitor the antenna SWR continuously.

3 INSTALLATION AND CONNECTIONS

■ Required connections

• Front panel

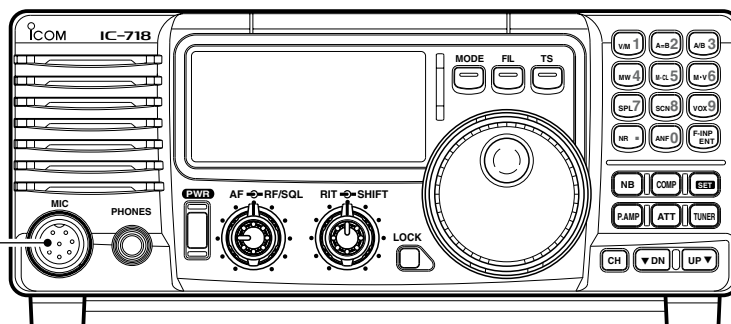
MICROPHONES (p. 55)



HM-36



SM-20

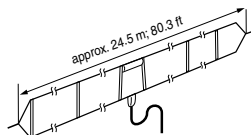
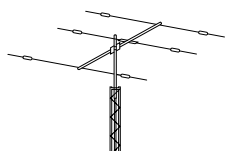


• Rear panel

ANTENNA (p. 56)

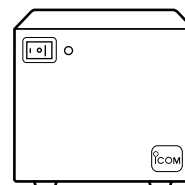
[Example]: 1.8–30 MHz bands

AH-710

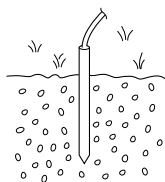


DC POWER SUPPLY

PS-85

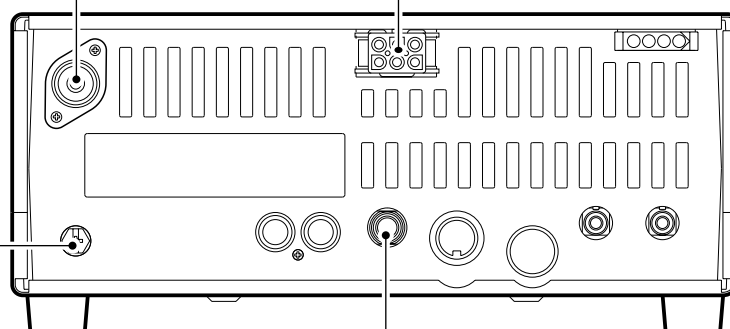


GROUND (p. 9)

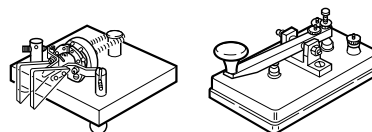


Use the heaviest gauge wire or strap available and make the connection as short as possible.

Grounding prevents electrical shocks, TVI and other problems.



CW KEY

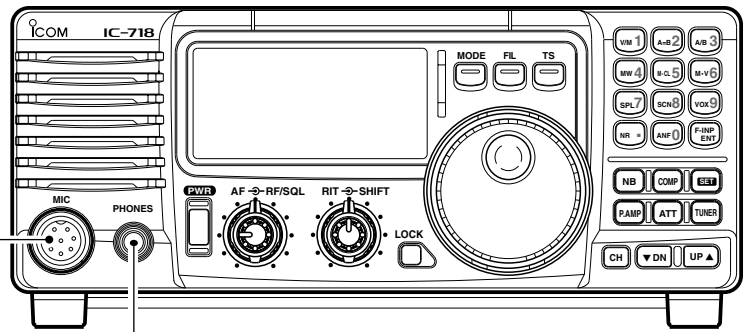


A straight key can be used when the internal electronic keyer is turned OFF in "CW PADDL" in initial set mode. (p. 31)

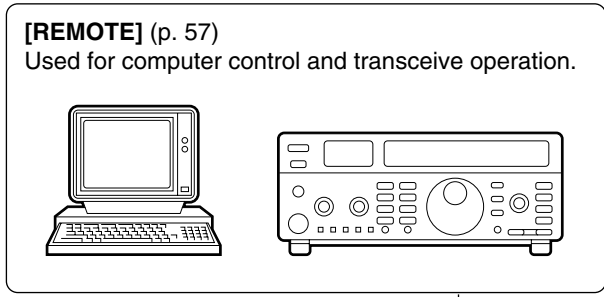
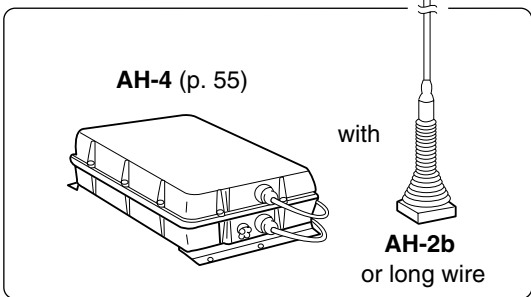
■ Advanced connections

•Front panel

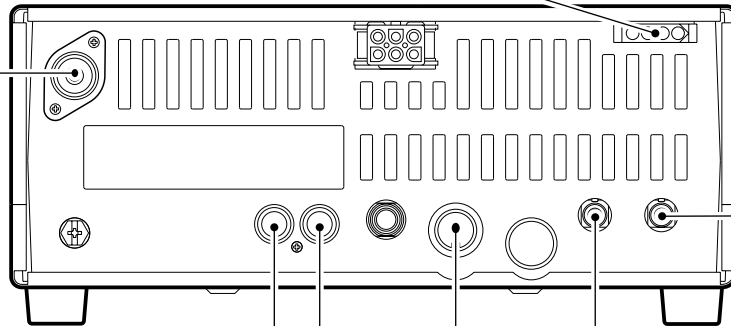
MIC
The AFSK modulation signal can be input from [MIC]. (p. 33)



•Rear panel



ANTENNA (p. 13)
Connects a liner amplifier, etc.



ACC SOCKETS (p. 7)

[SEND], [ALC]
(p. 14)
Used for connecting a non-Icom linear amplifier.

EXTERNAL SPEAKER (p. 55)
SP-21, etc

The diagram shows a square external speaker with a circular driver in the center. A line connects the speaker to the EXTERNAL SPEAKER text box.

3 INSTALLATION AND CONNECTIONS

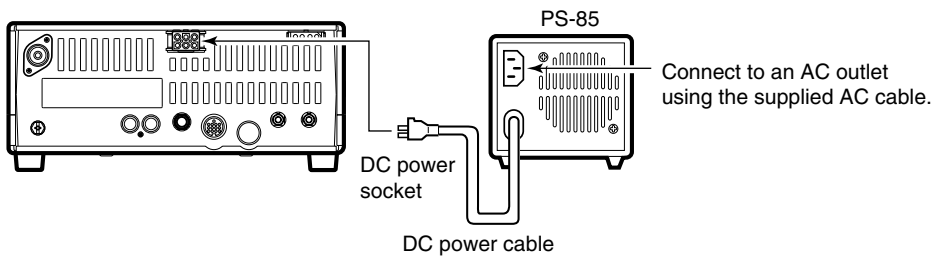
■ Power supply connections

Use an optional PS-85 DC POWER SUPPLY when operating the IC-718 with AC power. Refer to the diagrams below.

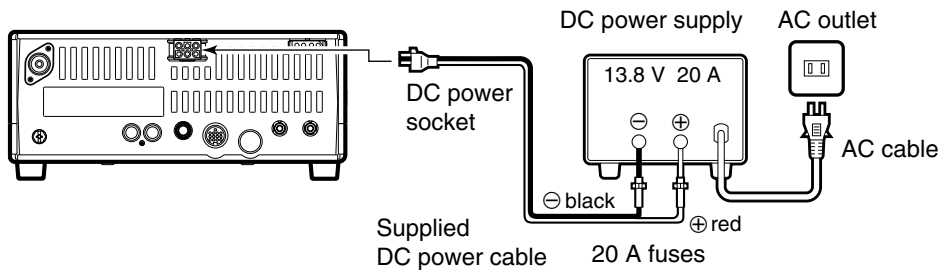
CAUTION: Before connecting the DC power cable, check the following important items. Make sure:

- The [POWER] switch is OFF.
- Output voltage of the power source is 12–15 V when you use a non-Icom power supply.
- DC power cable polarity is correct.
 - Red : positive ⊕ terminal
 - Black : negative ⊖ terminal

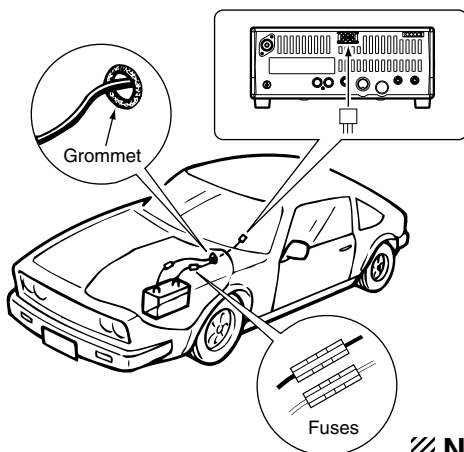
CONNECTING PS-85 DC POWER SUPPLY



CONNECTING NON-ICOM DC POWER SUPPLY

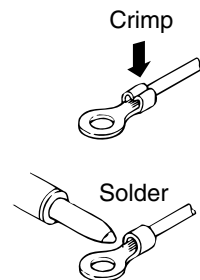
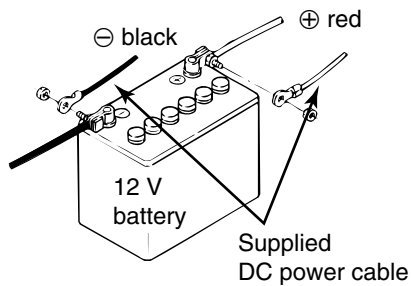


CONNECTING A VEHICLE BATTERY



NEVER connect to a 24 V battery.

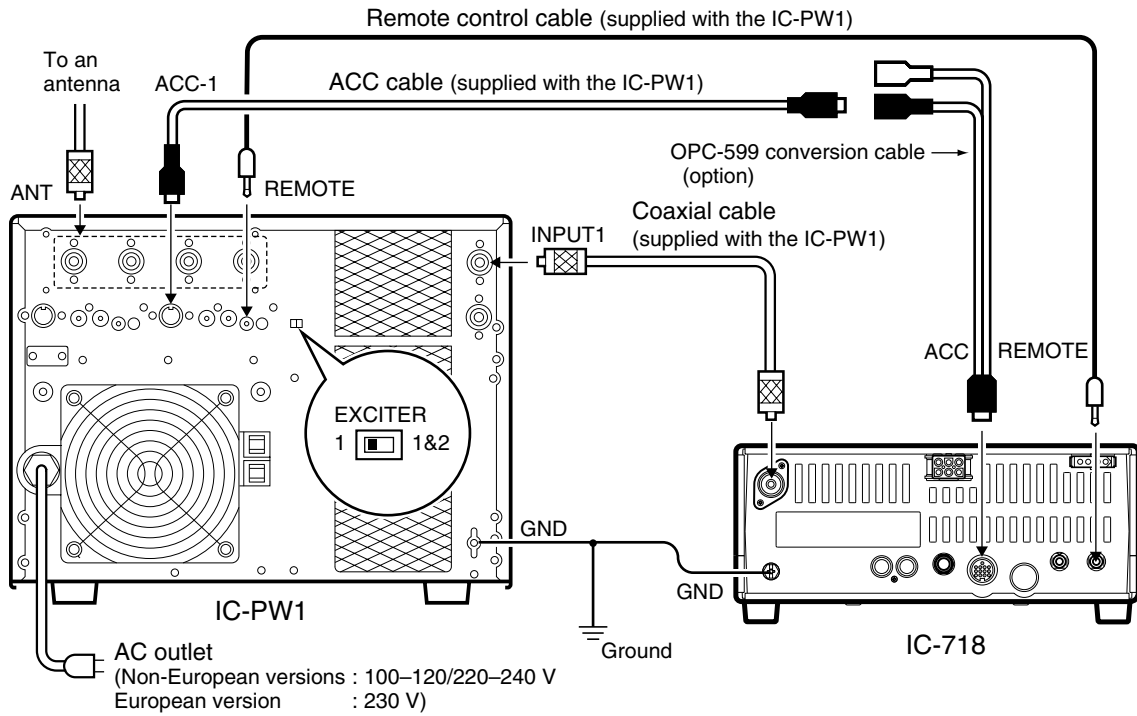
NOTE: Use terminals for the cable connections.



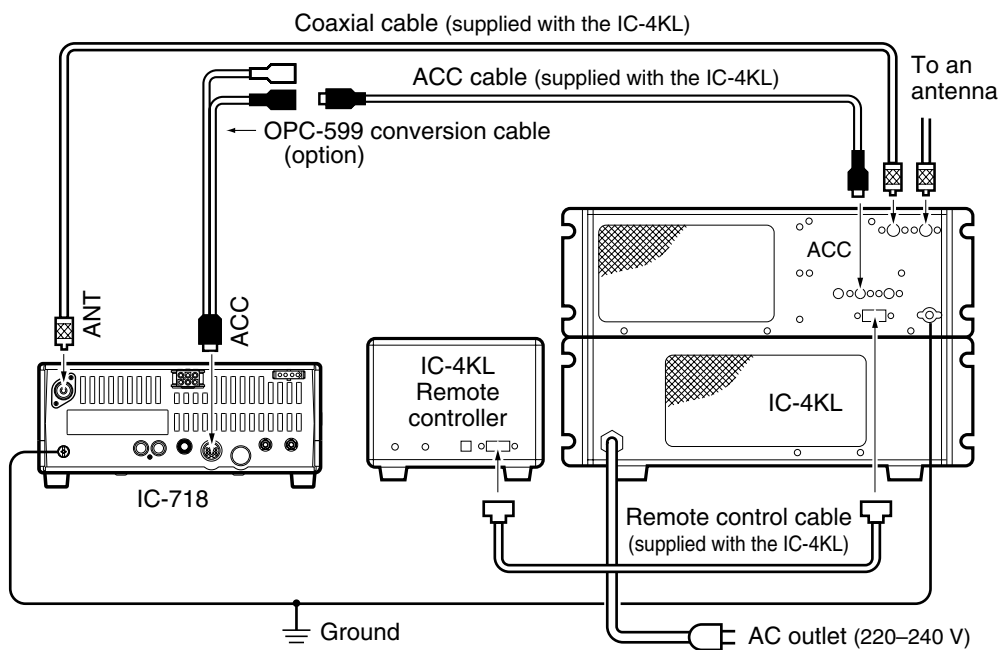
NEVER connect to a battery without supplied DC fuses, otherwise the fire hazard may occur.

Linear amplifier connections

CONNECTING THE IC-PW1



CONNECTING THE IC-4KL

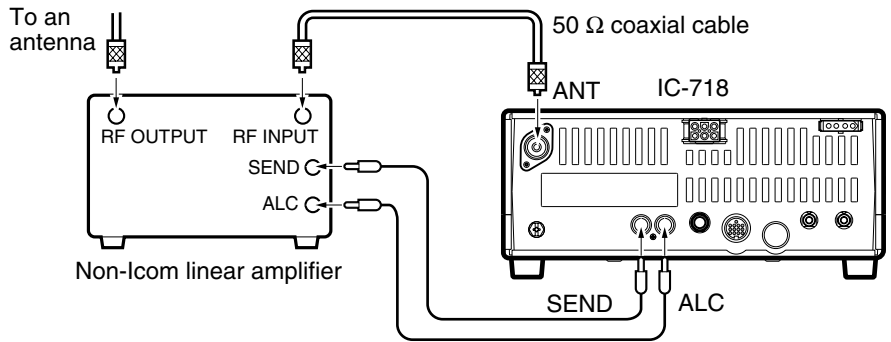


3 INSTALLATION AND CONNECTIONS

CONNECTING A NON-ICOM LINER AMPLIFIER

⚠ WARNING:
Set the transceiver output power and linear amplifier ALC output level referring to the linear amplifier instruction manual.

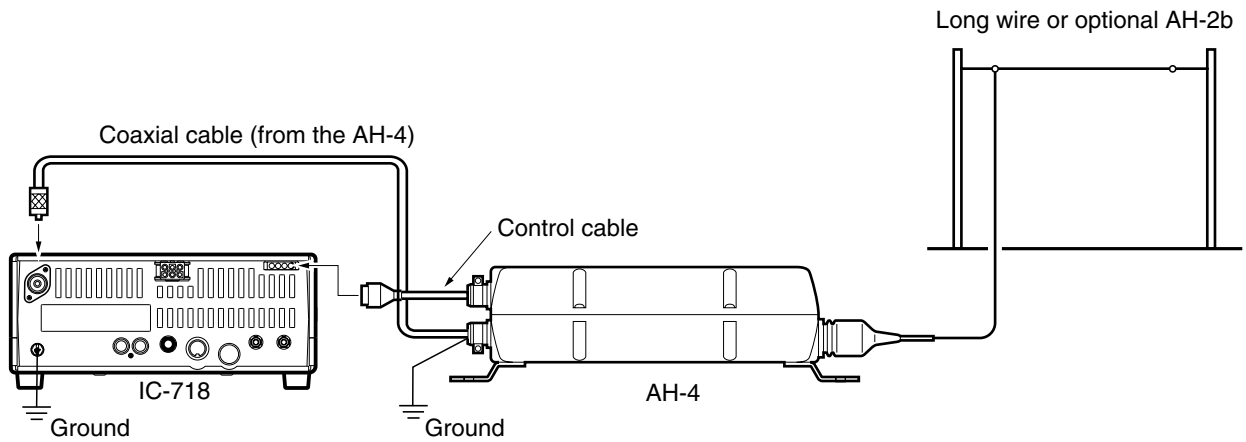
The ALC input level must be in the range 0 V to -4 V, and the transceiver does not accept positive voltage. Non-matched ALC and RF power settings could cause a fire or ruin the linear amplifier.



The specifications for the SEND relay are 16 V DC 2 A. If this level is exceeded, a large external relay must be used.

External antenna tuners

CONNECTING THE AH-4 (p. 29)



CONNECTING THE AT-180 (p. 28)

DO NOT! connect AT-180 and AH-4 at the same time. Both tuners will not function correctly.

Turn the IC-718's power OFF when connecting the AT-180, otherwise, the CPU may malfunction and the AT-180 may not function properly.

