iCOM

INSTRUCTION MANUAL

144 MHz FM TRANSCEIVER
IC-P2AT IC-P2ET
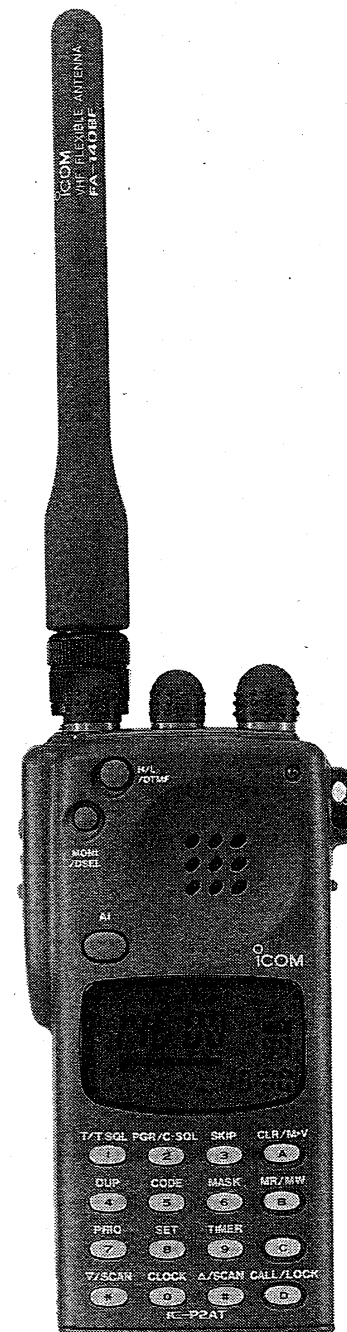
220 MHz FM TRANSCEIVER
IC-P3AT

UHF FM TRANSCEIVER
IC-P4AT IC-P4ET

Icom Inc.

IMPORTANT

This instruction manual uses the **IC-P2AT/ET** for most of the example displays. Please note that only the frequency differs from the **IC-P3AT** or **IC-P4AT/ET**.

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important safety and operating instructions for the **IC-P2AT/ET**, **IC-P3AT** and **IC-P4AT/ET**.

The supplied battery pack and CPU backup battery may require a full charge prior to operation. The transceiver may require CPU resetting after charging. See p. 2 for details.

EXPLICIT DEFINITIONS

The following explicit definitions apply to this manual.

WORD	DEFINITION
CAUTION	Equipment damage may occur.
NOTE, ●	If disregarded, inconvenience only. No personal injury, risk of fire or electric shock.

CAUTIONS

NEVER connect the transceiver to an AC outlet or to a power source of more than 16 V DC. These connections will ruin the transceiver.

NEVER connect the transceiver to a power source using reverse polarity. This connection will ruin the transceiver.

NEVER allow children to touch the transceiver.

AVOID using or placing the transceiver in areas with temperatures below − 10°C (+ 14°F) or above + 60°C (+ 140°F).

AVOID placing the transceiver in direct sunlight.

AVOID the use of chemical agents such as benzine or alcohol when cleaning, as they can damage the transceiver surfaces.

BE CAREFUL! When transmitting for a long time with high output power, the rear panel will become hot.

The use of non-Icom battery packs/chargers may impair transceiver performance and invalidate the warranty.

TABLE OF CONTENTS

BASIC ADVANCED AI OPTIONS HELP

FOREWORD

Thank you for purchasing a "PT" series transceiver.

This transceiver is a state-of-the-art handheld that fits comfortably in the palm of your hand and combines ease of use with multi-operational capabilities.

The transceiver has a "trial mode" to give access to functions according to your ability. See separate "STAR SELECTION GUIDE" for the trial mode.

OPERATING NOTES

When using the transceiver with a small-capacity battery pack such as the BP-111 or with manganese dry cell batteries in the optional BP-110, we recommend operating with low output power. Battery power will be discharged quickly if the transceiver is operated continuously using high output power.

When all of 5 star marks (★) do not appear on the function display, some functions will be deactivated. See p. 81 or the separate "STAR SELECTION GUIDE" to use the deactivated functions.

UNPACKING
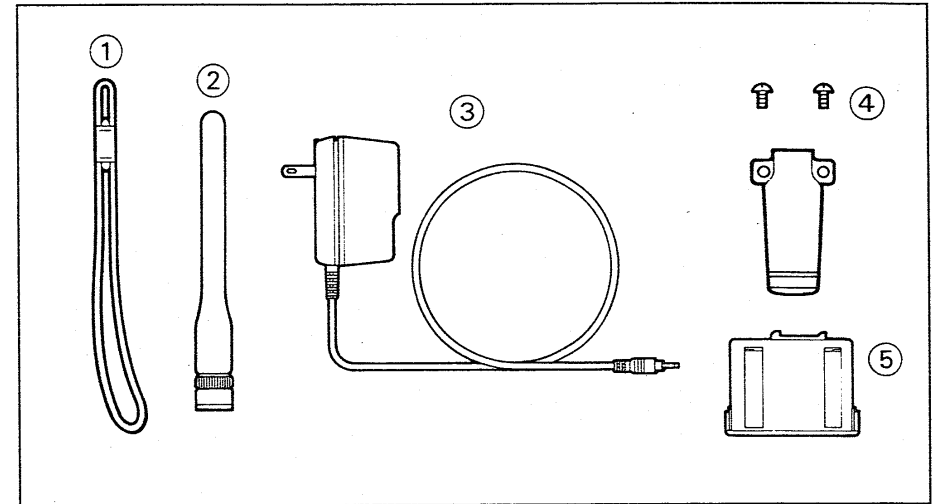
Accessories included with the transceiver: **Qty.**
① Handstrap 1
② Antenna *1 1
③ Wall charger*2 1
④ Belt clip and screws .... 1 set
⑤ Battery pack
   (BP-111; attached to the transceiver) 1

*1 FA-140BF for the IC-P2AT/ET
   FA-215BB for the IC-P3AT
   FA-430BD for the IC-P4AT/ET
*2 Either the BC-73E/D or BC-74A/V will be attached to the transceiver depending on the version.

BASIC

1. Charge the battery pack.

Connect the supplied wall charger as illustrated in the diagram below.

• The CPU backup battery will also be fully charged.
• See p. 9 for details on safety and use of a desktop charger.

to
[DC13.8V]

Turn power OFF

Supplied wall charger
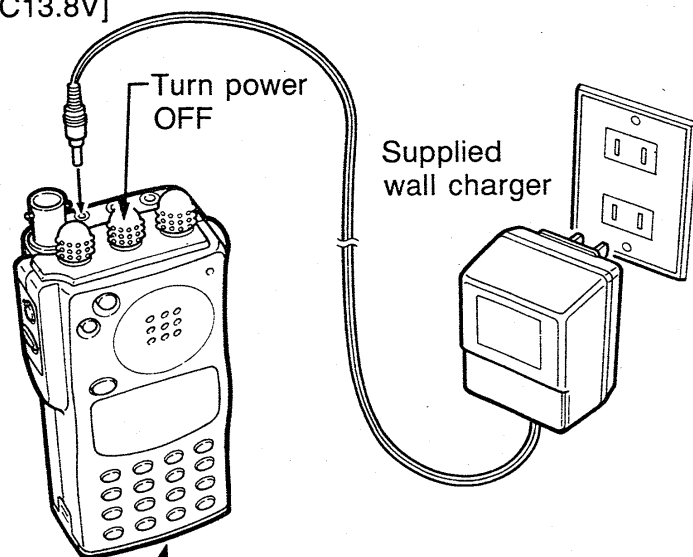
Supplied battery pack

Charging period: approx. 15 hrs.

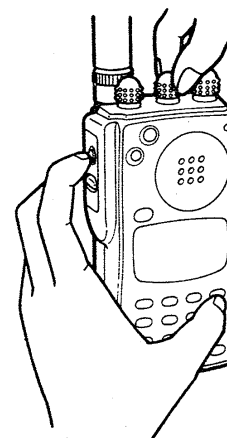● **NEVER** charge a battery case with dry cell batteries.

2. Reset the transceiver.

While pushing the [FUNC] and [Ⓐ CLR] keys, rotate [PWR/VOL] to turn power ON.

• The function display shows as follows:

| VERSION	IC-P2AT IC-P2ET	IC-P3AT	IC-P4AT IC-P4ET
U.S.A.	146.01	222.00	440.00
Australia	146.01	—	430.00
Others	145.00	—	430.00

(UNIT: MHz)

CAUTION: Resetting the CPU will clear and initialize all memory channel contents, SET mode settings, DTMF memory contents and clock and timer settings.

3. Connect the antenna.

Insert the supplied antenna into the antenna connector and rotate the antenna as shown in the diagram below.
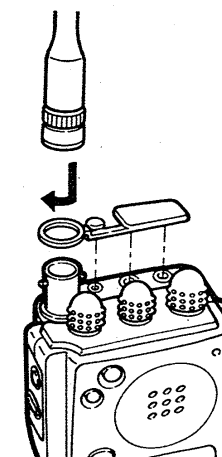
CAUTION:
Transmitting without an antenna may damage the transceiver.

■ Front and side panels

FUNCTION SWITCH [FUNC] (pgs. 5, 6)
While pushing [FUNC], all switches are set for secondary function use.
• In VFO mode, the dial select function is activated. The dial select function changes the memory channel or frequency in 100 kHz or 1 MHz steps when rotating the main dial.

PTT SWITCH [PTT] (p. 22)
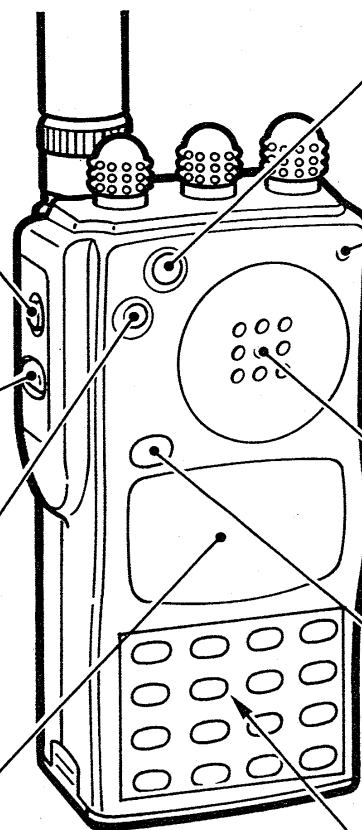Push and hold to transmit; release to receive.

MONITOR SWITCH [MONI/DSEL]
Monitors an operating frequency. (p. 21)

While pushing [FUNC], push this switch to change the dial select step. (p. 16)

FUNCTION DISPLAY (pgs. 7, 8)
Indicates the operating condition.

HIGH/LOW SWITCH [H/L/DTMF]
Selects HIGH or LOW output power. (p. 22)

While pushing [FUNC], push this switch to enter DTMF MEMORY mode. (p. 48)

TRANSMIT/RECEIVE INDICATOR
Lights up in green when the squelch opens; lights up in red when transmitting.

LIGHT SWITCH [LIGHT] (p. 20)
Turns the display and keyboard back-lighting ON and OFF.

SPEAKER/MICROPHONE

AI KEY [AI]
Push to activate the function indicated in the AI function indicator. (p. 57)

Enters AI selection mode when pushed and held. (p. 58)

KEYBOARD (pgs. 5, 6)
Numeral and other function keys for activating functions and tuning.

Count on us!

Icom Inc.
6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan