

# uniden®



## AX 55 HAND-HELD TRANSCEIVER OWNERS MANUAL

## DESCRIPTION

Your UNIDEN AX 55 represents the most advanced 5-watt hand-held type radio ever designed for use in the Citizens Band Radio Service. It will operate on any three of the 40 frequencies designated as citizens band channels by the Federal Communications Commission. Your Model AX 55 is factory-installed with channel 14 crystals. Additional crystals may be installed in the open channels.

### WARNING

Any adjustments or alterations which would alter the performance of the transceiver's original F.C.C. Type Acceptance or which would change the frequency determining method are strictly prohibited.

Operation of this equipment requires a valid station license issued by the Federal Communications Commission. Do not transmit with your equipment until you have received your license or without complying with the procedures explained on F.C.C. temporary license Form 555-B. You may use Form 555-B as a temporary permit while your regular Form 505 application is being processed by the F.C.C. Illegal operation can result in severe penalties. Be certain that you have read Part 95 of The Plain English Rules-Citizens Band Radio Service before operating your radio. F.C.C. Forms 505 and 555-B and a copy of Part 95 of the Commission's Rules are packed with the transceiver for your convenience.

Your Station License is to be posted in accordance with CB Rules 34 and 44. F.C.C. Rules require that All transmitter adjustments other than those supplied by the manufacturer as front panel operation controls be made by or under supervision of the holder of an F.C.C. issued 1st or 2nd class radio operator license.

Replacement or substitution of Crystals, Transistors, IC, Regulator Diodes or any other part of a unique nature, with parts other than those recommended by us, may cause violation of the technical regulations of Part 95 of the F.C.C. Rules or violation of Type Acceptance requirements of Part 2 of the Rules.

## LICENSING PROCEDURES

The Citizens Band (CB) Radio Service is under the jurisdiction of the Federal Communications Commission (F.C.C.) Therefore, the operator of a CB transceiver must be in possession of a valid FCC permit or license. The steps to legally operate your UNIDEN transceiver are:

- 1) For Immediate operation: complete the Form 555-B, Temporary Permit. Keep it with your unit.
- 2) FCC Form 505, Application for Class C or D Station License in the Citizens Radio Service is the document to be completed to obtain your license which is valid for 5 years. Mail the application to the address indicated on the form. DO NOT send it to UNIDEN Corporation of America.

These forms are packaged as part of the documents provided with each radio. Every CB operator must read and understand the FCC part 95 prior to operation of a radio.

## **SPECIFICATIONS:**

### **TRANSMITTER**

Power Input	: 5 Watts (HI)	1.5 Watts (LOW)
Power Output	: 3.5 Watt (HI)	0.8 Watt (LOW)
Spurious Ratio	: -65 dB or better	400 mA to 500 mA
Current Drain at Maximum Modulation	: 900 mA to 1,200 mA(HI)	(LOW)

### **RECEIVER**

Sensitivity at 10 dB S+N/N	: 0.5 $\mu$ V
Image Rejection Ratio	: 15 dB
IF Rejection Ratio	: 80 dB
Audio Output Power at 10% Distortion	: 1.5 Watts
Current Drain at Maximum Output Power (DC)	: 400 mA to 500 mA

## CHANNEL INFORMATION

Channel	Channel Frequency in MHz	Channel	Channel Frequency in MHz
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.255
4	27.005	24	27.235
5	27.015	25	27.245
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.345
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

### PREPARING FOR USE

- Slide off the Battery Compartment cover to install the batteries.
- You can use the following types of batteries (size "AA").

Description	Quantity Required
Rechargeable Nickel Cadmium (1.2 volts)	10
Alkaline type (1.5 volts)	8
Standard type (1.5 volts)	8

Alkaline or rechargeable batteries are more desirable.

- Install the batteries with polarity as shown on the Battery Compartment.
- If you are using Alkaline or Standard type "AA" batteries, use the two dummy batteries provided with this unit.

**NOTE:** Only Nickel Cadmium batteries can be used for recharging purposes.

- If the battery indicator LED comes on when power is turned on, the batteries need to be recharged or replaced. As long as the LED stays "off", the batteries are OK.

## CONTROLS AND FUNCTIONS

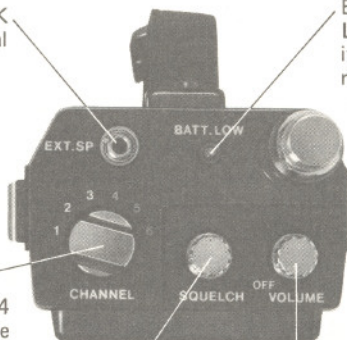
**EXTERNAL SPEAKER JACK**  
connect an optional external speaker.

**BATTERY LOW INDICATOR LED**  
if LED comes on, recharge or replace batteries.

**CHANNEL SELECTOR**  
Position 1 is for Channel 14 (crystals Applied with the unit). Use 2 and 6 for other channels as desired.

**SQUELCH**  
Adjust to eliminate background noise.

**POWER ON-OFF/VOLUME CONTROL**  
Turn clockwise past click to apply power.  
Adjust for desired Listening level.



**ANTENNA**  
Extended to its full length.

**SPEAKER**  
Listen here.

**PUSH-TO-TALK BUTTON**  
Press to talk.  
Release to listen.

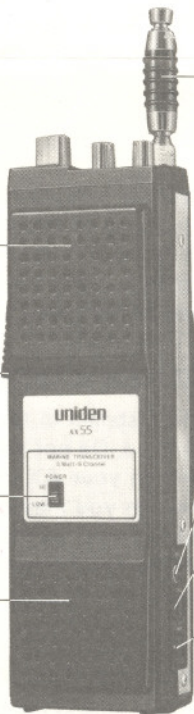
**RF POWER HI/LOW SELECTOR**

**MICROPHONE**  
Talk here.

**EXTERNAL ANTENNA JACK**  
Connect an external antenna for greater operating range.

**CHARGER JACK**  
Connect charger to recharge Nickel Cadmium batteries without removing them.

**POWER JACK**  
Connect an optional AC adaptor to operate the unit on household current.



## OPERATING PROCEDURE TO RECEIVE

1. Extend Antenna to its full length and keep in a vertical position.
2. Turn the unit "on" by rotating Volume Control clockwise.
3. Set the Channel Selector to the desired channel.
4. Set the Volume Control to a comfortable listening level.
5. Listen to the background noise from the speaker. Turn the Squelch Control slowly clockwise until the noise JUST disappears (no signal should be present). Leave the control at this setting. The Squelch is now properly adjusted. The receiver will remain quiet until a signal is actually received. Do not advance the control too far, or some of the weaker signals will not be heard.

## OPERATING PROCEDURE TO TRANSMIT

1. Extend Antenna to its full length and keep in a vertical position.

**IMPORTANT: IF THE ANTENNA IS NOT FULLY EXTENDED, THE EFFICIENCY OF THE TRANSMITTER IS REDUCED AND THE POWER AMPLIFIER TRANSISTOR COULD BE DAMAGED.**

2. Turn the power "on" by rotating the Volume Control clockwise.
3. Set the Channel Selector to the desired channel.
4. To transmit, press the Talk button. Speak slowly and clearly in normal voice, "2" to "3" from the Microphone.
5. To receive, release the Talk button.

## RANGE

The range of your hand-held transceiver will vary depending on conditions. Factors such as antenna, terrain and battery charge all affect range. To insure maximum range, always keep fully charged batteries in the unit. As voltage decreases, it directly affects range. Though higher in initial cost than other types, Nickel Cadmium Rechargeable Batteries are recommended. They can be recharged hundreds of times.

## CHANGING OR INSTALLING NEW CRYSTALS

Your AX 55 comes with Channel 14 installed in Channel 1 position. You can use any 6 channels of the 40 allotted to CB Band. Do not attempt to use non-standard crystals or to make any internal adjustments to your AX 55. Such is prohibited by the FCC and result in illegal operation, for which you may be liable and may be fined. Therefore, replacing and/or installing crystals must be made by or under supervision of the holder of an FCC issued 1st or 2nd class radio operator license. Following information is provided only for such license holders.

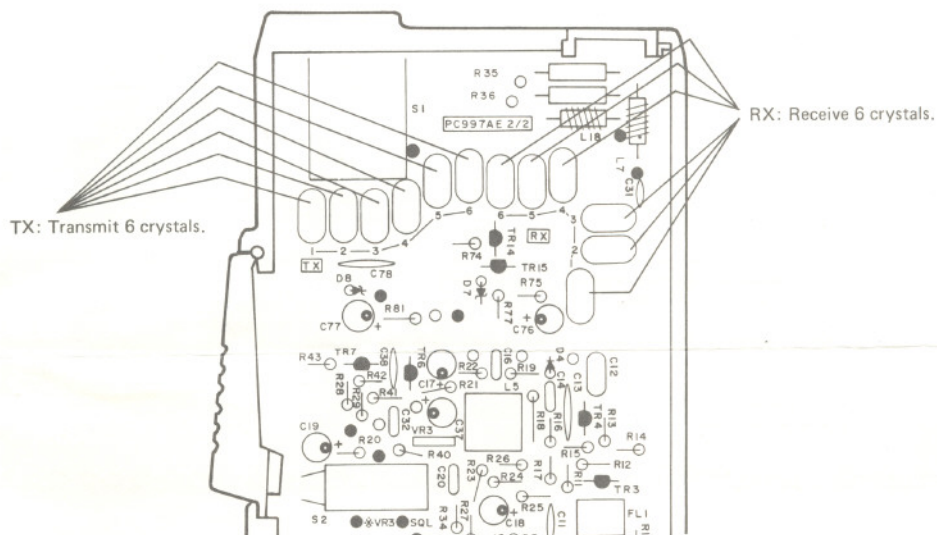
1. Remove the rear cover from the transceiver.
2. Insert transmit crystal into the dual pin socket marked TX-2 to TX-6 (see below).
3. Insert receive crystal into the dual pin socket marked RX-2 to RX-6.

**NOTE:** The crystals installed in channel "1" position are also of plug-in type and may be replaced with those of any other channels.

Make sure the transmit and receive crystals are installed in their correct socket. If the crystals are reversed, the unit will transmit on one frequency and receive on another, both of which will be outside the citizens band, resulting in illegal operation.

4. Replace the rear cover.

## CRYSTAL SOCKET LOCATION



## SERVICING YOUR TRANSCEIVER

The technical information, diagrams and charts will be supplied upon request for the use of a qualified holder of a first or second class radiotelephone license in servicing this transceiver. It is the user's responsibility to see that this radio is operating at all times in accordance with the F.C.C. Citizens Radio Service regulations.

If you install your own transceiver, do not attempt to make any transmitter tuning adjustments as they are prohibited by the F.C.C. unless you hold or are in the presence and under the supervision of a first or second class radiotelephone licensed person. A Citizens Band or Amateur license is not sufficient.

Please refer to the WARNING information contained in the 1st page of your owner's Guide.

(NOTE: When ordering parts, it is essential to specify the correct model number and serial number of the unit.)

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## TWO-YEAR FULL WARRANTY

**WARRANTOR.** UNIDEN AUSTRALIA PTY. LTD. 345 Princes Highway, Rockdale, N.S.W. 2216 ("UNIDEN").

**ELEMENTS OF WARRANTY.** UNIDEN warrants, for the duration of this warranty, its UNIDEN CB Product to be free from defects in materials and craftsmanship with only the limitation or exclusions set out below.

**WARRANTY DURATION.** This Warranty shall terminate and be of no further effect Two (2) years after the date of original purchase of the Product or at the time the Product is (a) damaged or not maintained as reasonable and necessary, (b) modified, (c) improperly installed, (d) is repaired by someone other than Warrantor for a defect or malfunction covered by this Warranty, or (e) used in a manner or purpose for which the Product was not intended.

**PARTS COVERED.** This Warranty covers all components of the Products.

**STATEMENT OF REMEDY.** In the event that the Product does not conform to this Warranty at any time while this Warranty is effective. Warrantor will repair the defect and return it to you prepaid, without charge for parts, service, or any other costs incurred by Warrantor or its representatives in connection with the performance of this Warranty. In addition, if the Product contains a defect or malfunction which is not repaired after a reasonable number of attempts by Warrantor to repair the Product, the Product or defective component will, at your election, either be replaced without charge or the purchase price for the Product will be refunded when the defective Product is delivered to Warrantor at 345 Princes Highway, Rockdale, N.S.W. 2216 free and clear of all liens and encumbrances. Please note that while the Product will be remedied under this Warranty without charge. **THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

Some states do not allow this exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

**PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY.** In the event that the Product does conform to this Warranty, the Product should be shipped prepaid to Warrantor at 345 Princes Highway, Rockdale, N.S.W. 2216. THE ORIGINAL OR A COPY OF THE SALES RECEIPT OR OTHER VALID EVIDENCE OF THE DATE OF THE ORIGINAL PURCHASE MUST ACCOMPANY THIS PRODUCT.

**LEGAL REMEDIES.** This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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