

# uniden®



## WASHINGTON CB RADIO OWNERS MANUAL

## INTRODUCTION

UNIDEN CORPORATION OF AMERICA has combined superb workmanship and modern styling with the very latest state of the art circuitry to bring you the new WASHINGTON Citizens Band Transceiver. It has been especially designed to give you maximum performance and reliability. Your WASHINGTON is completely factory aligned and quality assurance tested.

To obtain the maximum benefit and pleasure from your WASHINGTON, please read very carefully the contents of this manual before attempting to install or operate the transceiver.

## WARNING

The Citizens Band (CB) Radio Service is under the jurisdiction of the Federal Communications Commission (F.C.C.). 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. Replacement or substitution of Crystals, Transistors, ICs, 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.

## ELIMINATION OF LICENSING

The Federal Communications Commission (F.C.C.) has ruled that Citizens Band (CB) Radio Service operators no longer are required to obtain an F.C.C. license to operate their CB equipment. In doing so, the F.C.C. also decided to permit CB station operation without station identification.

Elimination of individual station licenses results in no lessening of the operating privileges or responsibilities of CB users. An operator of a CB radio station is still required to comply with the Communications Act and with the rules of CB Radio Service.

**WARNING – TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

## 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

To insure that you obtain the maximum performance from this radio, please carefully read this owner's manual.

**NOTE:** This radio has been designed for operation in the 11 meter Citizens Radio Service. It uses a frequency synthesizing circuit with Phase Locked Loop (PLL) techniques to provide crystal controlled transmit and receive operation on all 40 channels. The PLL circuitry assures ultraprecise frequency control. It is designed to meet the Federal Communications Commission requirements applicable to equipment operating in the Citizens Radio Service, and is not to be used for any other purpose.

## INSTALLATION

### Location

Prior to beginning operation of the transceiver, a basic installation must be done. Installation of the transceiver itself is a rather simple procedure.

In selecting the location for the unit, two factors must be considered:

1. Access to a <sup>2ACV</sup>~~117V~~ AC, 60Hz power source for your BASE STATION installation. Be sure to connect the AC power cord to an AC power source, not to a DC power source.
2. The location must be convenient for running the antenna lead-in cable to your transceiver.

### BASE STATION ANTENNA

Since the maximum allowable power output of the transmitter is limited by the F.C.C., the antenna is the most important factor affecting transmission distance. Only a properly matched antenna system will allow maximum power transfer from the 52 Ohm transmission line to the radiating element.

The recommended method of antenna tuning is to use an in-line watt-meter or VS-WR bridge to adjust the antenna for minimum reflected power on channel 19.

The radio may be used with any type of 52 Ohm base station antenna. A ground plane vertical antenna will provide the most uniform horizontal coverage. This type of antenna is best suited for communication with a mobile unit. For point-to-point operation where both stations are fixed, a directional beam will usually increase communicating range since this type of antenna concentrates transmitted energy in one direction. The beam antenna also allows the receiver to "listen" in only one direction thus reducing interfering signals.

Antenna height is an important factor when maximum range is desired. Keep the antenna clear of surrounding structures or foliage. F.C.C. regulations limit antenna height to 20 feet above an existing structure.

### MOBILE OPERATION/EMERGENCY POWER OPERATION

It is possible to operate the WASHINGTON from an external 13.8V DC power supply for emergency power conditions or from an automobile battery for mobile operation. The WASHINGTON is supplied with a polarized plug for operation with an external DC supply.

Negative lead is black.

Positive lead is red and has the in-line fuse holder as an integral part of the positive lead.

## PUBLIC ADDRESS

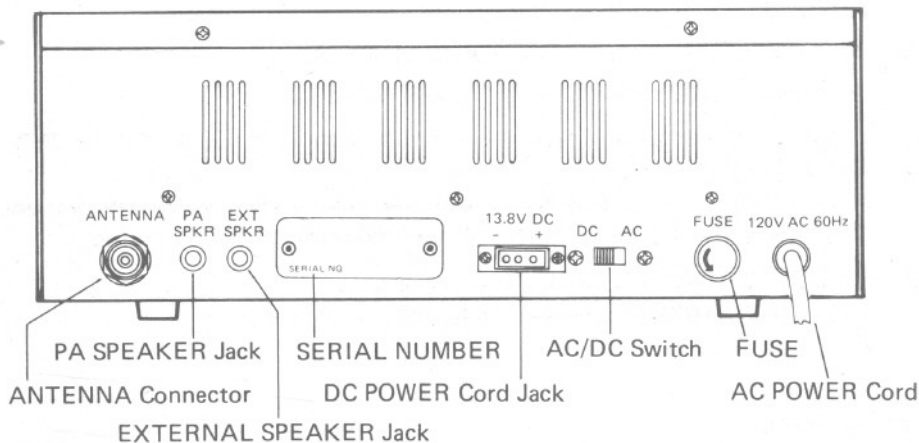
An external 8 Ohm, 4 watt speaker may be connected to the PA speaker jack located on the rear panel when the transceiver is used as a public address system. The speaker should be directed away from the microphone to prevent acoustic feed-back.

Physical separation or isolation of the microphone and speaker must be used when operating the PA at high output levels.

## REMOTE SPEAKER

The external speaker jack (EXT. SPKR.) on the rear panel is used for remote receiver monitoring. The external speaker should have 8 Ohms impedance and be able to handle at least 4 watts.

## RADIO BACK PANEL CONNECTORS



## IMPORTANT!

The above illustration shows the location of the various accessory, antenna, and power receptacles, as well as the SERIAL NUMBER.

You are urged to record your model number and your SERIAL NUMBER in the spaces provided below:

Model \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

