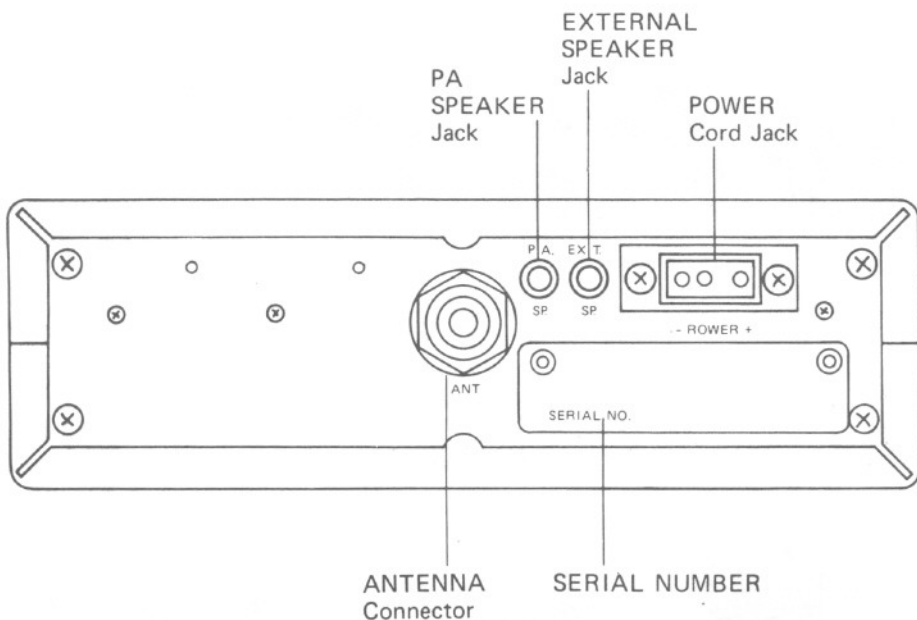


uniden



**AX144 CB RADIO
OWNERS MANUAL**

RADIO BACK PANEL VIEW



IMPORTANT!

The above pictorial display 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 _____

SPECIFICATIONS

GENERAL

Channels	40 AM, 40 LSB, 40 USB
Frequency Range	26.965 to 27.405 MHz
Frequency Control	Phase Locked Loop(PLL) synthesized circuitry
Frequency Tolerance	±0.005%
Frequency Stability	0.001%
Operating Temperature Range	-10 °C to +50 °C
Microphone	Plug-in type; dynamic with push-to-talk switch and coiled cord
Input Voltage	13.8V DC nominal, 15.9V max., 11.7V min. (positive or negative ground).
Current Drain	Transmit: AM full mod., 2.2A; SSB Maximum output, 2A. Receiver: AM & SSB with maximum audio output, 0.6A.
Cabinet Dimensions	7-9/32(W) x 9-5/64(D) x 2-9/32(H)
Weight	4.5 Lbs
Antenna Connector	UHF, SO-239
Semiconductors	47 transistors, 5 integrated circuits, 66 diodes and 6 light emitting diodes.
Meter	Illuminated; indicates relative power output and received signal strength, green receive LED.
Indicators	LED display; channel, emergency channel, TX/RX and mode.

TRANSMITTER

Power Output	AM,SSB Maximum Legal Output Power
Modulation	AM, high and low level Class B
Intermodulation Distortion	SSB: 3rd and 5th order, better than -25 dB. 7th and 9th order, better than -35 dB.
SSB Carrier Suppression	Better than -55 dB
Unwanted Sideband	Better than -50 dB
Frequency Response	AM and SSB: 350 to 2500 Hz.
Output Impedance	52 ohms, unbalanced
SSB Filter	10.695 MHz, 8 pole monolithic type 6 dB @ 4.2 kHz 60 dB @ 7.0 kHz
Output Indicators	Meter shows relative RF output power; red transmit LED.

RECEIVER

Sensitivity	SSB: Better than $.25 \mu\text{V}$ for 10 dB (S+N)/N at greater than $\frac{1}{2}$ watt of audio output AM: Better than $.5 \mu\text{V}$ for 10 dB (S+N)/N at greater than $\frac{1}{2}$ watt of audio output
Selectivity	SSB and AM: 6 dB @ 4.2 kHz, 60 dB @ 7.0 kHz
Cross Modulation	More than 50 dB
Image Rejection	More than 75 dB
I.F. Frequency	AM and SSB: 10.695 MHz
AM and SSB RF Gain Control	Adjustable for optimum signal reception.
Automatic Gain Control	(AGC): Less than 10 dB change in audio output for inputs from 10 to 500,000 microvolts.
Squelch	Adjustable; threshold less than $.5 \mu\text{V}$.
Noise Blanker	RF type, effective on AM and SSB.
Clarifier Range	± 1.0 kHz
Audio Output Power	3 watts into 8 ohms
Frequency Response	350 to 2500 Hz
Distortion	Less than 10% at 3 watts output.
Built-in Speaker	16 ohms, round
External Speaker (Not Supplied)	8 ohms; disables internal speaker when connected.

PA SYSTEM

Power Output	3 watts into external speaker.
External Speaker for PA	8 ohms (not supplied)

INTRODUCTION

UNIDEN has combined superb workmanship and modern styling with the very latest state-of-art circuitry to bring you the new AX 144 Citizens Band Transceiver. It has been especially designed to give you maximum performance and reliability. Your AX 144 is completely factory aligned and quality assurance tested. To obtain the maximum benefit and pleasure from your AX 144 please read very carefully the contents of this manual before attempting to install or operate the transceiver.

FEATURES

- **ALL SOLID STATE:** IC and Transistorized construction, with low current drain, for a long, trouble-free life.
- **FULL 40-CHANNEL OPERATION:** PLL frequency, synthesizer circuitry allows transmission and reception on all 40-channels on AM, USB and LSB without the purchase of any additional crystals.
- **LARGE LED CHANNEL DISPLAY:** Channel number is displayed by use of LED (light emitting diode) display for ease of channel selection.
- **CLEAN SIGNAL:** Transmitter audio processing circuitry produces a clean signal with maximum legal modulation, for best range.
- **QUIET RECEPTION:** Effective squelch and automatic noise limiter and an RF noise blanker for superior quieting.
- **EFFECTIVE AGC:** Receiver amplified automatic gain control (AGC) reduces the effect of differences in received signal strengths. No distracting "blasting" and "fading" of signals.
- **AN EFFICIENT TRANSMITTER:** Provides maximum legal output power to the antenna.
- **PUBLIC ADDRESS FUNCTION:** Useful for paging and announcements.
- **TRI-COLOR LED MODE INDICATOR:** Green for AM mode, Yellow for USB mode and Red for LSB mode.
- **EMERGENCY CH 9 SWITCH:** This switch enables you to select emergency channel (CH 9) regardless of the channel selector switch setting.

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 read carefully the following descriptions and operating instructions.

NOTE: This radio has been designed for operation in the 11 meter Citizens Band 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 **Department of Communication** requirements applicable to equipment operating in the Citizens Band Radio Service, and is not to be used for any other purpose. **MS 312** of the D.O.C. regulations defines operation in this service, and you are required to read and understand these regulations prior to operating this equipment.

