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Unpacking

Carefully unpack your **PC68XL** and check the contents against this list:

- **PC68XL** CB 2-way mobile radio
- Microphone
- Mounting Bracket Kit
- DC Power Cord
- Reference Guide
- Part 95 Subpart D (FCC Rules)
- Product Registration Card

If any items are missing or damaged, contact your place of purchase immediately.

Please be sure to complete and mail your Product Registration card.

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Description

Your Uniden **PC68XL** represents the highest quality communications device designed for use in the Citizens Band Radio Service. It will operate on any of the 40 AM frequencies authorized by the Federal Communications Commission (FCC).

The Citizens Band Radio Service is under the jurisdiction of the Federal Communications Commission (FCC). Any adjustments or alterations which would alter the performance of the transceiver's original FCC type acceptance, or which would change the frequency determining method, are strictly prohibited. Replacement or substitution of crystal, transistors, ICs, regulator diodes, or any other part of a unique nature, with parts other than those recommend by Uniden, may cause violations of the technical regulations in Part 95 of the FCC Rules or in violation of type acceptance requirements in Part 2 of the rules.

Elimination of Licensing

The FCC has ruled that CB Radio Service operators are no longer required to obtain an FCC License to operate their CB equipment. In doing so, the FCC also decided to permit CB station operation without station identification.

Elimination of individual station licenses does not reduce 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 Citizens Band Radio Service.

Uniden is a registered trademark of Uniden America Corporation.

Features, Specifications, and availability of Optional Accessories are all subject to change without notice.

Emergency Operation

1. Set the switch to ***CH9*** or turn **Channel Selector** knob to **Channel 9**.
2. Press ***PTT*** switch on microphone and speak clearly.
3. If there is no response, select an active channel and ask that party to relay your emergency broadcast on **Channel 9.**

All channels, except Channel 9 may be used for normal communication. Channel 9 is reserved by the FCC for emergency communications involving the immediate safety of individuals or protection of property. Channel 9 may also be used to render assistance to a motorist.

This is an FCC rule and applies to all operators of CB radios.

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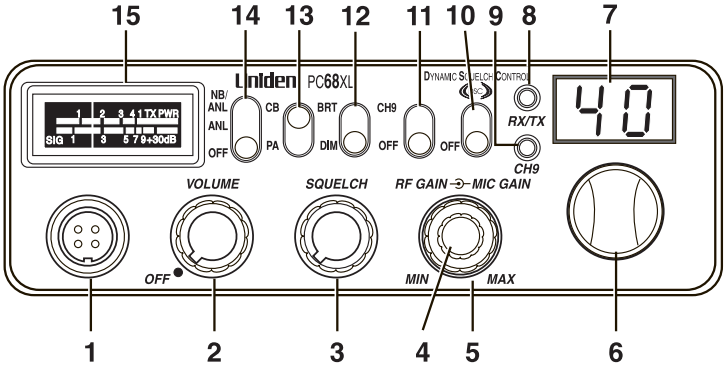
Controls and Functions



FRONT VIEW

1. ***Microphone Jack***
2. ***ON/OFF -VOLUME***: Turns radio on or off; adjusts speaker volume.
3. ***SQUELCH***: Reduces background noise when there is no incoming signal.
4. ***RF GAIN***: Improves reception in strong signal areas.
5. ***MIC GAIN***: Adjusts microphone sensitivity.
6. ***Channel*** Knob: Selects transmission and reception channels.
7. ***Channel Display***: Displays current channel selection.
8. ***RX/TX*** Indicator: **Red**-transmitting; **green**-receiving.
9. ***CH 9*** Indicator: **Red**-Channel 9 switch is on.
10. ***Dynamic Squelch Control (DSC)***: Automatically sets Squelch to optimal level for stronger signals.
11. ***CH9/OFF***: Turns Channel 9 on or off.
12. ***BRT/DIM***: Adjusts the brightness of LED Channel Display and Indicator and RF Signal Meter.
13. ***CB/PA***: Selects the **PA** (Public Address) or **CB** (Citizens Band).

NOTE

Do not use **PA** function unless an external speaker is connected.

14. ***NB/ANL***: Reduces external noise and interference from vehicle ignition systems.
15. ***Function Meter***: Measures RF and S signal strength.

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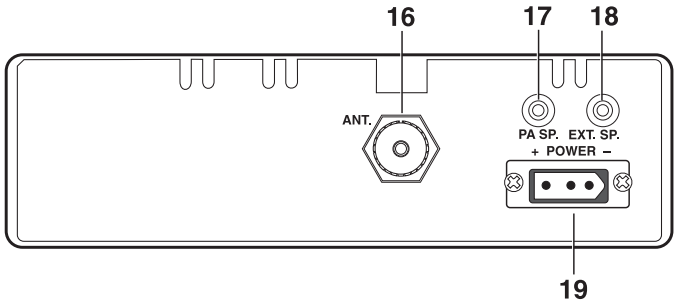

REAR VIEW

16. ***ANT.***: Connects antenna cable to transceiver.
17. ***PA SP***: Connects optional external 8-ohm, 4-watt speaker for use as a public address system.

NOTE

To prevent acoustic feedback, separate the microphone from the speaker when operating the **PA** at high output levels.

18. ***EXT. SP***: Connects an 8-ohm 4-watt speaker to remotely monitor the receiver.

NOTE

When the external speaker is plugged in, the internal speaker is off.

19. ***POWER***: Connects DC power to transceiver.

NOTE

All channels, except Channel 9 may be used for normal communication. Channel 9 is reserved by the FCC for emergency communications involving the immediate safety of individuals or protection of property. Channel 9 may also be used to render assistance to a motorist.

This is an FCC rule and applies to all CB operators.

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Installation

MOBILE STATION INSTALLATION

NOTE

Plan the location of the transceiver and microphone bracket before beginning installation.

1. Select a location that is convenient for operating the radio, but does not interfere with the driver or passenger.
2. Install bracket with self-tapping screws provided.
3. Connect wiring. (See instructions for Connecting the Power Cords).
4. Attach the microphone bracket to side of the radio.
5. Attach radio to bracket.

MOBILE STATION ANTENNA

Because the maximum power output of the transmitter is limited by the FCC, the quality of your antenna is very important. To achieve the maximum transmission distance, we strongly recommend that you install only a high quality antenna. You have just purchased a superior transceiver - don't diminish its performance by installing an inferior antenna.

Only a properly matched antenna system will allow maximum power transfer from the 50 ohm transmission line to the radiating element. Your **Uniden** dealer is qualified to help you select the proper antenna for your requirements. A whip style antenna may be used for automobile installation.

A short 'loaded' whip antenna is easier to install on an automobile. However, the efficiency of the short whip antenna is less than that of a full quarter-wave whip antenna.

MARINE INSTALLATION

Consult your dealer for information regarding marine installation. It is important to adequately ground the system and to prevent electrolysis between the fittings in the hull and the water.

CONNECTING THE POWER CORDS

We recommend connecting the power lead to the Ignition Switch Accessory Terminal. This way, the transceiver is automatically turned off when the ignition switch is turned off.

Or, the power cord may be connected to an available terminal on the fuse block, or, to a point in the wiring harness. However, caution must be taken to prevent a short circuit. If in doubt, contact your vehicle dealer for information.

GROUND INFORMATION

NOTE

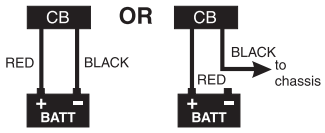
This transceiver may be installed and used in any 12-volt DC negative or positive ground system vehicle.

Most newer U.S. and foreign made cars, and small trucks, use a negative ground system. Some older cars, and some new large trucks, use a positive ground system.

With a negative ground system, the negative (-) battery terminal is usually connected to the vehicle motor block. If you cannot determine the polarity system of your vehicle, contact your vehicle dealer for information.

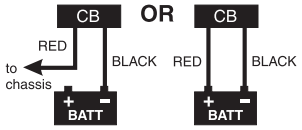
Negative Ground System

If you have a negative ground system, connect the **red** DC power cord from the transceiver to the positive (+) battery terminal or other convenient point. Then connect the **black** power cord to the vehicle chassis or negative (-) battery terminal.



Positive Ground System

If you have a positive ground system, connect the **black** DC power cord from the transceiver to the negative (-) battery terminal or other convenient point. Then, connect the **red** power cord to the vehicle chassis or the positive (+) battery terminal.



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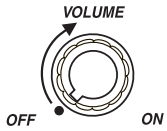
To Receive

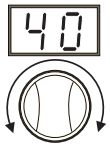
NOTE

Be sure that the power source, antenna, and microphone are properly connected before proceeding.

1. Turn unit **ON**.
   VOLUME Control to a comfortable level.



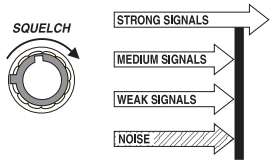
2. Select **CHANNEL**.



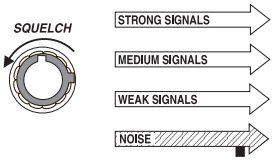
3. Set switch to ***NB/ANL.***

Dynamic Squelch Control automatically sets Squelch to the optimal level for stronger transmission and signal clarity. To scan for weaker signals, turn off ***Dynamic Squelch Control*** and perform the following steps:

4. Turn **SQUELCH** fully clockwise so only strong signals can get through.



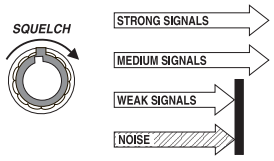
4b. Turn **SQUELCH** fullY counter-clockwise until you hear a hiss. Everything gets through - noise, weak signals, and strong signals.



4c. Turn **SQUELCH** back clockwise until the hiss stops. Only clearer signals get through.

NOTE

Set **SQUELCH** *only* when the radio is not receiving a strong signal.



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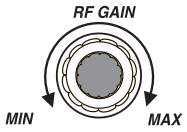
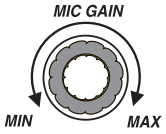
5. Adjust **RF GAIN** knob (small) to optimize reception in strong signal areas.



6. Adjust **MIC GAIN** knob (large) to adjust microphone sensitivity.



To Transmit

CAUTION

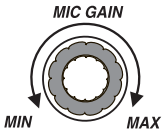
Perform a voltage Standing Wave Ratio (***SWR***) measurement prior to using the transmitter. A ***SWR*** ratio in excess of 2:1 may damage the transmitter

NOTE

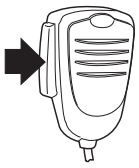
Be sure to read and understand Part 95, FCC Rules and Regulations before operating your transmitter.

1. Select a channel.

2. Adjust ***MIC GAIN***.



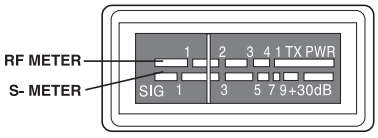
3. When the channel is clear, press the microphone ***PTT*** switch and speak.



Function Meter

RF Meter: Measures RF Output Power for transmitter. Press microphone ***PTT*** switch to read transmitting power.

S-Meter: Measures incoming signal strength. The meter swings to indicate signal strength. i.e. **S 3, S 5, S 7 . . .**



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Preventive Maintenance

Every six months:

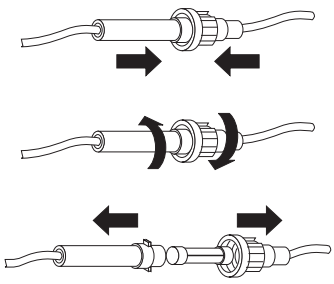
1. Check the Standing Wave Ratio (**SWR**).
2. Be sure all electrical connections are tight.
3. Inspect antenna coaxial cable for wear or breaks in shielding.
4. Be sure all screws and mounting hardware are tight.

Maintenance

The **PC68XL** is designed to give you years of trouble-free service. There are no user-serviceable parts inside. Except for the fuse in the DC power cord, no maintenance is required.

To replace a blown fuse:

1. Press ends of the fuse holder together. Twist to open. Carefully separate the two pieces.



2. Remove the fuse and inspect. If blown, replace with the same type fuse.

Use only the fuse specified for your **PC68XL**. Failure to do so may void your warranty.

Troubleshooting

In the event of system malfunction, perform the following procedures:

Problem	Suggestion
Unit does not power up	❑ Check the ignition key position. ❑ Check power cord connections. ❑ Check fuse. ❑ Check vehicle electrical system.
No reception	❑ Check microphone connection. ❑ Set ***CB/PA*** switch to ***CB***. ❑ Check ***VOLUME*** and ***SQUELCH***. ❑ Check antenna. ❑ Check antenna connection. ❑ Set ***RF GAIN*** to ***MAX***
Poor Reception	❑ Check ***VOLUME*** and ***SQUELCH***. ❑ Be sure antenna ***SWR*** is normal. ❑ Set ***RF GAIN*** to ***MAX***.
No Transmission	❑ Set ***CB/PA*** switch to ***CB***. ❑ Check microphone connection. ❑ Check ***MIC GAIN*** and adjust to ***MAX***.
Low Transmission	❑ Check ***MIC GAIN*** and adjust to ***MAX***.

If you do not get satisfactory results after performing the above checks, call the **Uniden Customer Service Center** at 1-800-297-1023, 8:00 a.m. to 5:00 p.m. CST, Monday through Friday.

Servicing Your Transceiver

Technical information, diagrams, and charts are provided on request. It is the user's responsibility to see that this radio is operating at all times in accordance with the FCC Citizens Radio Service regulations. We highly recommend that you consult a qualified radio/telephone technician for servicing and aligning this CB radio product. Please refer to the WARNING information on page 2 of this Guide.

When ordering parts, be sure to specify the correct model number and serial number of the unit.

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Specifications

GENERAL	
Channel:	40
Frequency Range:	26.965 - 27.405 MHz
Frequency Control:	PLL Synthesizer
Antenna Impedance:	50 ohms
Power lnput:	13.8 VDC
Current Drain	
TX:	AM Full Modulation 2.2 A max)
RX:	Squelch 25 A
Operating Temperature:	-30°C to 60°C
	-10°C to +60°C (DSC on)
Accessories:	DC Power Cord Microphone Microphone Hanger Mounting Bracket
Size (W x D x H):	160 mm x 55 mm x 217 mm
Weight:	3 Pounds
TRANSMITTER	
Output Power:	4 watts
Emission Type:	6A3
Hum and Noise:	Better than 40 dB
Frequency Tolerance:	±0.002%
Modulation Percentage (Peak):	100%
Spurious Rejection:	-70 dB
Output Impedance:	50 ohm, unbalanced
RECEIVER	
Sensitivity at 10 dB S+N/N:	0.5 µV
Sensitivity at 500 mW Audio Output:	0.5 µV
Squelch Threshold:	0.5 µV
Antenna Impedance:	50 ohms
Squelch Tight:	1000 µV
Signal Meter S-9:	100 µV
Audio Output Power (max.):	5 watts
Audio Output (10% Dist.):	4 watts
Selectivity @ 6 dB Down:	7 kHz
Adjacent Channel Rejection:	60 dB
Image Rejection:	70 dB
Internal Speaker Impedance:	16 ohm
External Speaker Impedance:	80 ohms
Current Drain @ No Signal (max):	.375 A
PUBLIC ADDRESS	
Output Power at 10% Distortion:	4 watts

Specifications shown are typical and subject to change without notice.

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Two-Year Extended Warranty

Important: Evidence of original purchase is required for warranty service.

WARRANTOR: UNIDEN AMERICA CORPORATION ("Uniden")

ELEMENTS OF WARRANTY: Uniden warrants, for two years, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate and be of no further effect two years after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. 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.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts and accessories originally packaged with the Product. Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

Uniden America Corporation
Parts and Service Division
4700 Amon Carter Blvd
Fort Worth, TX 76155
(800) 297-1023, 8 a.m. to 5 p.m., Central,
Monday through Friday

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Radio Code Definitions

The following list contains common "10-Codes" used by CB radio operators for faster communication and better understanding.

Code	Meaning
10-1	Received poorly
10-2	Receiving well
10-3	Stop transmitting
10-4	OK, message received
10-5	Relay message
10-6	Busy, stand by
10-7	Out of service, leaving air
10-8	In service, subject to call
10-9	Repeat message
10-10	Transmission completed, standing by
10-11	Talking too rapidly
10-12	Visitors present
10-13	Advise Weather/ Road conditions
10-16	Make pickup at
10-17	Urgent business
10-18	Anything for us?
10-19	Nothing for you, return to base
10-20	My location is
10-21	Call by telephone
10-22	Report in person to
10-23	Stand by
10-24	Completed last assignment
10-25	Can you contact
10-26	Disregard last information
10-27	I am moving to channel
10-28	Identify your station
10-29	Time is up for contact
10-30	Does not conform to FCC rules
10-32	I will give you a radio check
10-33	EMERGENCY TRAFFIC
10-34	Trouble at this station
10-35	Confidential information
10-36	Correct time is
10-37	Wrecker needed at
10-38	Ambulance needed at
10-39	Your message is delivered
10-41	Please turn to channel
10-42	Traffic accident at
10-43	Traffic tie up at
10-44	I have a message for you
10-45	All units within range please report
10-50	Break channel
10-60	What is next message number
10-62	Unable to copy, use phone
10-63	Net directed to
10-64	Net clear
10-65	Awaiting your next message/assignment
10-67	All units comply
10-70	Fire at
10-71	Proceed with transmission in sequence
10-77	Negative contact
10-81	Reserve hotel room for
10-82	Reserve room for
10-84	My telephone number is
10-85	My address is
10-91	Talk closer to microphone
10-93	Check my frequency on this channel
10-94	Please give me a long count
10-99	Mission completed, all units secure
10-200	Police needed at

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back cover