

PRO505XL Professional Mobile CB Radio

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INTRODUCTION

Welcome to the world of Citizens Band radio communications. Your Uniden radio is an advanced mobile radio designed for use in the Citizens Band (CB) Radio Service. It will operate on any of the 40 AM frequencies authorized by the Federal Communications Commission (FCC). Your Radio features a superheterodyne circuit with PHASE LOCKED LOOP techniques to assure precise frequency control.

WARNING

This radio has been type accepted and certified by the FCC for CB Radio Service operation. Any adjustments or alterations which might alter the performance of the transceiver or the method of determining frequency are strictly prohibited.

If you replace or substitute any unique parts (including crystals, transistors, IC's, regulator diodes, etc.) with parts other than those recommended by Uniden, you may be in violation of FCC technical regulations (in Part 95) or type acceptance requirements (in Part 2) of the FCC rules.

CB license requirement

U.S. users no longer need to apply for a license to use a CB radio. However, CB radio is still considered a "license by rule" service. This means that, while the FCC permits CB station operation without station identification, station operators are still required to comply with the Communications Act and with the rules of CB Radio Service. (For more information on U.S. radio rules, visit the FCC website at www.fcc.gov.)

Uniden contact information

You can get answers 24/7 at our website: www.uniden.com.

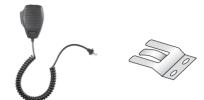
If You	Contact Uniden's	Phone
have a question or problem	Customer Care Line*	800-297-1023
need a part or accessory	Parts Department*	800-554-3988
need special assistance due to a disability	Accessibility Help Line	800-874-9314 (voice or TTY)

*During regular business hours, Central Standard Time. Visit our website for detailed business hours.

INCLUDED IN YOUR PACKAGE

If any of these items are missing or damaged, immediately contact your place of purchase or Uniden's Parts Department.





PRO505XL Mobile radio

Microphone and hook



Mounting bracket, knobs, and mounting hardware

Other printed materials

NOTE: You must use a CB antenna (sold separately) with this radio.

PARTS OF THE RADIO

Front

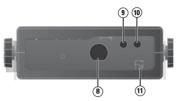


No.	Name	Details
1	CB/PA Switch	Switches between CB Radio and PA systems
2	Volume/ Power	Adjusts the volume. Turns radio on and off.
3	4-Pin Mic	Plugs in microphone
4	CH9	Sets the radio to CH9 (Emergency).

No.	Name	Details
5, 6	Channel Selectors	Press \blacktriangle or \bigtriangledown to select which channel the radio will transmit or receive on.
7	Squelch knob	Adjusts the level at which the radio squelches or suppresses weak radio signals

NOTE: FCC rules reserve Channel 9 for motorist assistance and other emergency communications. Channel 9 should only be used in situations where there is immediate danger to the safety of individuals or the protection of property.

Back



No.	Name	Details
8	Antenna Connector	Connects to a male PL-259 external antenna cable (antenna sold separately).
9	PA Speaker Jack	See Connecting external speakers, page 6.
10	External Speaker Jack	See Connecting external speakers, page 6.
11	12 Volt DC Power Cord	Connects to DC power supply, page 5.

Microphone

Press and hold the PTT button to transmit on the selected channel. Release the button to listen Push-to-Talk button

NOTE: For the best sound quality, hold the microphone about 2 inches away from your mouth and speak in a normal voice.

NOTE: Make sure you have read and understood part 95 of the FCC rules and regulations before using the transmitter.

INSTALLATION

Connect the microphone

Align the microphone connector with the jack on the front of the radio. Push the connector in firmly and secure it with the locking screw.

Connect the power

You can connect the radio to any standard 12 volt DC power source, with either a positive or negative ground. If you don't know whether your power supply uses a positive or negative ground, consult the manual for your power supply or contact the manufacturer.

WARNING! DO NOT connect this equipment to a power supply if you are not absolutely certain of the grounding type!

- 1) Make sure your power supply is turned off.
- For power supplies with a NEGATIVE ground, connect the RED lead on the radio to the power supply's POSITIVE (+) pole, and connect the BLACK lead to the power supply's NEGATIVE (-) pole or to a neutral ground such as the chassis. Turn on your power supply.
- 3) Turn the radio's **Volume** knob clockwise to power on the radio.

Installing the mounting bracket

When choosing the location for the radio's mounting bracket, keep the following things in mind:

- Pick a location that does not block your view, interfere with your vehicle's controls, or hinder your driving.
- Make sure the radio and microphone are not in front of an airbag.
- Pick a solid surface that can support the bracket and radio weight.
- Make sure there's enough room. (You may want to put the radio in the bracket when you're choosing where to install the bracket.)

Once you choose the location, use the included, self-tapping screws to attach the mounting bracket and the microphone bracket to your vehicle (you don't have to drill holes). Slide the radio into the bracket and use the included knobs to hold it at the preferred angle.

Connecting an external antenna

WARNING! The antenna used for this radio must be installed at least 8 inches (20 cm) away from all persons. The antenna must not be collocated or used with any other antenna or transmitter.

CAUTION: Never operate your radio with no antenna or with a damaged antenna cable. This can damage the radio.

You will need to purchase an antenna to operate the radio. There are two basic types of mobile CB antennas–full-length whips and loaded whips–with a wide variety of mounts to suit different vehicle locations.

- Choose an antenna that matches the specifications of this radio.
- ► Follow the manufacturer's installation instructions carefully.
- Tune your antenna using a Standing-Wave Ratio (SWR) meter: set the radio to channel 20, and adjust the antenna until the SWR is as close as 1:1 as possible.

Connecting external speakers

Your radio supports two external speakers for remote monitoring and public address features. External speakers are sold separately.

	External monitor	PA speaker
Function	Remote receiver monitoring or substitution for internal speaker	Public address broadcasts
Impedance	8 Ohms	8 Ohms
Rating	3 Watts	3 Watts
Connect to	EXT.SP. jack (1/8-in/3.5 mm)	PA.SP. jack (1/8-in/3.5 mm)
Notes	The internal speaker is disabled when an external speaker is connected.	You must have a PA speaker connected to use the PA feature.

To prevent feedback, direct all speakers away from the microphone.

CAUTION: Make sure the SWR is **less than 2:1** before using the radio. An SWR higher than 2:1 can damage the transmitter.

Your Uniden dealer can help you select the antenna that is best for your needs. Consult the specifications in the back of this manual for detailed transmitter and antenna information.

OPERATION AND MAINTENANCE

Basic operation

Turning the radio on	Turn the Volume knob clockwise until the display backlight comes on.
Turning the radio off	Turn the Volume knob counter-clockwise until it clicks and the display backlight turns off.
Selecting a channel	Press \blacktriangle or \blacksquare buttons to select a channel.
Changing the volume	Turn the Volume knob clockwise to increase the volume; turn it counter-clockwise to decrease the volume.
Transmitting	 Tune the radio to the channel you want to transmit on, and listen to make sure the channel is clear. Press and hold the PTT button. Hold the microphone about 2 inches away from your mouth and speak in a normal voice. Release the button to listen for a response.
Using the PA feature	 Toggle the CB/PA switch to PA; this turns off the CB radio and activates the PA speaker. On the microphone, press and hold the PTT button. Hold the microphone about 2 inches away from your mouth and speak in a normal voice. Use the Volume knob to adjust the volume of the PA speaker. When you're finished broadcasting, release the button and move the CB/PA switch back to CB.
Adjusting the squelch level	 To filter out weaker signals and background noise, turn the knob clockwise to increase the squelch level. To decrease the squelch level so you can hear weaker radio signals, turn the knob counter- clockwise.
Using the Instant Channel 9 feature	 Press the CH9 button; the radio automatically tunes to channel 9. Press the CH9 button again to return to the previous channel.

NOTE: Make sure you read and understood part 95 of the FCC rules and regulations before using the transmitter.

Maintenance

Every six to twelve months, check to make sure that...

- ► The Voltage Standing Wave Ratio (VSWR) is less than 2:1.
- ► All electrical connections are secure and free of corrosion.
- ► The antenna cable shows no wear or damage.
- ► All mounting screws are securely fastened.

TROUBLESHOOTING

If your radio is not performing to your expectations, please try these simple steps. If these steps don't solve your problem, call the Uniden Customer Service Center.

Problem:	Things to try:
Radio won't turn on (no power)	 Check the radio's power cord and all connections. Check the fuse in the radio's power cord. Check your vehicle's electrical system.
Poor reception	 Adjust the squelch level. Check the antenna, cable and connectors. Check operation mode of the radio.
Background noise	1. Adjust the squelch level.
Weak transmission	 Check the antenna, cable and connectors. Check the antenna grounding. Check for corrosion on the connectors.
PA won't broadcast	 Check the CB/PA toggle is set to PA. Check the mike's PTT button is pressed in when you talk.

Service and repair information

- Service, repair, or alignment should only be attempted by a qualified and/or licensed radio technician.
- When ordering parts, it is important to specify the correct model number of this radio.
- It is the user's responsibility to make sure the radio is operating in accordance with the FCC Citizens Radio Service regulations at all times.

SPECIFICATIONS

GENERALChannels40 AMFrequency Range26.965 to 27.405 MHzFrequency ControlPhase Locked Loop (PLL) synthesizerFrequency Tolerance±0.005%Operating Temperature-30°C to +50°CMicrophonePlug in type, electretInput Voltage13.8 V DC nom. (+ or - ground)Current DrainTX full mod., 1.4ARXwith max. audio output, 0.8ASize4-7/8" W x7-1/2" D x 1-3/4" HWeight1 lb. 3 oz.Antenna ConnectorUHF, SO-239LCD MeterIndicates relative RF output and received signal strength <i>TRANSMITTER</i> Power Output4 WattsModulationClass B amplitude modulationFreq. Response300-2500 HzOutput Impedance50 ohms, unbalanced <i>RECEIVER</i> Sensitivity0.8µV for 10 dB; (S + N) /N typical (limit 1.6µV)Selectivity6 dB @ 7kHz, 70 dB @ 10kHz typicalImage Rejection65 dB typicalI.F. FrequencyDouble Conversion Superheterodyne 1st 10.692 MHz 2nd 450 kHzAutomatic Gain Control (AGC)less than 10dB change in audio output for inputs from 10 to 50,000 microvoltsSquelchAdjustable; threshold less than 1.25µVAudio Output Power3 watts max. into 8 ohmsFreq. Response300 to 2000 HzDistortionless than 10% at 0.5 watts, 1000HzInternal Speaker8 ohms, 2 watts round	C			
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I.F. FrequencyDouble Conversion Superheterodyne 1st 10.692 MHz 2nd 450 kHzAutomatic Gain Control (AGC)less than 10dB change in audio output for inputs from 10 to 50,000 microvoltsSquelchAdjustable; threshold less than 1.25µVAudio Output Power3 watts max. into 8 ohmsFreq. Response300 to 2000 HzDistortionless than 10% at 0.5 watts, 1000Hz	Selectivity	6 dB @ 7kHz, 70 dB @ 10kHz typical		
1st 10.692 MHz 2nd 450 kHzAutomatic Gain Control (AGC)less than 10dB change in audio output for inputs from 10 to 50,000 microvoltsSquelchAdjustable; threshold less than 1.25µVAudio Output Power3 watts max. into 8 ohmsFreq. Response300 to 2000 HzDistortionless than 10% at 0.5 watts, 1000Hz	Image Rejection	65 dB typical		
(AGC)to 50,000 microvoltsSquelchAdjustable; threshold less than 1.25µVAudio Output Power3 watts max. into 8 ohmsFreq. Response300 to 2000 HzDistortionless than 10% at 0.5 watts, 1000Hz	I.F. Frequency	1st 10.692 MHz		
Audio Output Power3 watts max. into 8 ohmsFreq. Response300 to 2000 HzDistortionless than 10% at 0.5 watts, 1000Hz				
Freq. Response300 to 2000 HzDistortionless than 10% at 0.5 watts, 1000Hz	Squelch	Adjustable; threshold less than 1.25µV		
Distortion less than 10% at 0.5 watts, 1000Hz	Audio Output Power	3 watts max. into 8 ohms		
	Freq. Response	300 to 2000 Hz		
Internal Speaker 8 ohms, 2 watts round	Distortion	less than 10% at 0.5 watts, 1000Hz		
	Internal Speaker	8 ohms, 2 watts round		

Specifications and features are subject to change without notice.

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Uniden America Corporation Parts and Service Division 4700 Amon Carter Blvd Fort Worth, TX 76155