

***LUITON* LT-298**

CB RADIO

Owner's Manual



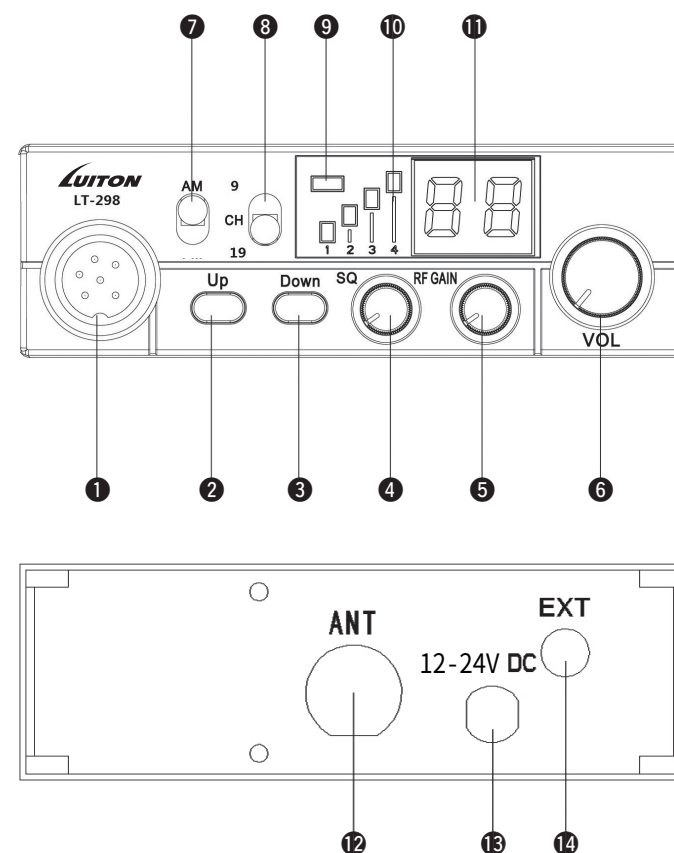
To User

Welcome to use LUITON LT-298 CB RADIO, it is a high quality CB radio, which suitable for Poland, Romania, Germany, UK, Italy, Russia bands.

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1. CONTROLS AND REAR PANEL



① MICROPHONE connector

Connect the supplied electric condenser microphone to this connector, and then lock it via the ring nut.

② UP KEY

Press this key and channel NO. runs up.

③ DOWN KEY

Press this key channel NO. runs down.

④ SQ knob

The SQUELCH control allows to silent the receiver by cutting the background noise.

Turn the SQUELCH knob anticlockwise until the background noise is cut. Rotate the SQUELCH knob clockwise (SQUELCH ON) to listen to the weakest signals.

5 RF GAIN knob

This transceiver uses a high sensitivity and selectivity receiver circuit. The receiver gain is adjustable with the RF GAIN knob. By rotating the knob anticlockwise, the receiver gain is reduced. It is convenient to reduce the receiver gain in case of very strong signals from local stations. This knob only functions at AM mode.

6 OFF/VOL

This knob controls the radio ON and OFF as well as adjusts the volume. If no signals are being received on the operating channel, it is suggested to turn on the SQUELCH and adjust the volume to the desired level while listening to the background noise. When it is turned on by operating the Volume knob, the radio will remember the channel, frequency, AM or FM used last time.

7 AM mode selector

This switch allows selecting the modulation mode AM.

8 TX LED

The indicator light is bi-color, red light and green light, transmitting shows red light

9 RX Signal Meter

4-bar RX signal Meter to monitor the strength of the received signals.

10 DISPLAY

The digital LED display shows the channel.

11 12-24 VDC POWER CORD

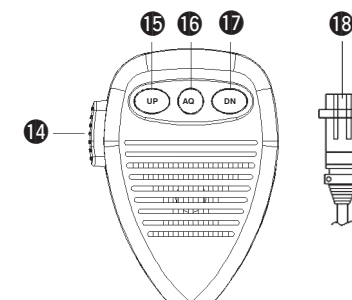
12-24VDC power cord input.

12 EXT (External Speaker) Jack

This jack is for connecting an external speaker.

13 PTT (Push-to-talk) key

Push the button to talk then release to receiving mode.

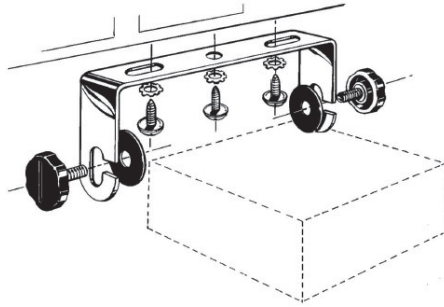


19 MICROPHONE plug

4-pole microphone plug with locking ring nut, to be connected to socket (1) located on the front side of the radio.

2. INSTALLATION

Before installing the main unit in the vehicle, please check and select the most convenient position, in order that the radio will be easy to reach and comfortable to operate without disturbing or interfering driving. Use the supplied bracket and hardware to install the radio. The bracket screws must be well tightened to avoid looseness as the vehicle vibrates. The car mounting bracket can be installed over or below the radio and the radio may be inclined as desired according to the specific type of installation (under dashboard or track cabin roof installation).



2.1 INSTALLATION OF THE MAIN UNIT

Before connecting the radio to the vehicle electric system, please make sure the radio is powered off with the **OFF/VOL 6** knob completely turned anticlockwise at OFF position. The DC power cable of the radio includes a fuse holder with fuse located on the red positive (+) wire. Please connect the DC power cable to the vehicle electric system with special attention to correct polarity, even if the radio is protected against polarity inversion. Connect the red wire to the positive (+) pole and the black wire to the negative (-) pole of the vehicle electric system. Please make sure that the wires and terminals are firmly connected, to prevent cables from disconnecting or causing short circuits.

2.2 CHECKING OPERATION OF THE RADIO

Once radio has been connected to the vehicle electric system and to the antenna, the correct operation of the system should be checked. Please proceed as following:

- 1) Check that the power cable is correctly connected.
- 2) Check that the RF antenna coaxial cable is properly connected.
- 3) Connect the microphone to the **connector 1** that is on the front side of the radio.
- 4) Rotate the **SQUELCH 4** knob anticlockwise.
- 5) Turn radio on by the **OFF/VOL 6** knob and adjust volume to the desired level.
- 6) Select the desired channel with the up/down key on the front side of the radio.
- 7) Rotate the **SQUELCH 4** knob clockwise to cut the background noise.
- 8) Press the PTT key to transmit and release it to receive.
- 9) Check the level of the received and transmitted signals on the 4 bar RX signal Meter and TX LED. The transceiver will work correctly.

3. TECHNICAL INDICATORS

General	
Frequency range	26.965-27.405MHz
Frequency Tolerance	±0.005%
Operating temperature	-20°/+45°C
DC input voltage	12—24Vdc ±15%
Size	115 (L) x 38 (A) x 150 (P) mm
Weight	0.8 kg
Receiver	
System	CPU controlled Double conversion super
IF	1° 10.7 MHz / 2° 450 KHz
Sensitivity	-120dBm for 12dB SINAD (FM)
	-107dBm for 12dB SINAD (AM)
Audio output	@10% THD 2.5W at 8 ohm
Audio distortion	<8% at 1 KHz
Image rejection	65dB
Adjacent channel	85dB
Signal ise ratio	45dB
Current drain	220mA (stand-by)
Transmitter	
System	CPU controlled P.L.L. synthesizer
Maximum RF power	FM:35.86dBm AM:35.93dBm
Modulation	85% to 90% (AM)
	2KHz ±0.2 KHz (FM)
ANT impedance	50 ohm unbalanced
Current drain	1800mA (at no modulation)

**Specifications and features are subject to change without notice.*

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Verification of harmful interference by this equipment to radio or television reception can be determined by turning it off and then on. The user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a different circuit to that of the receivers outlet. Consult the dealer or an experienced radio/TV technician for help. Operation is subject to the following two conditions:

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

Any Changes expressly or modifications not approved by the party responsible for compliance could void the users authority to operate the equipment.

FCC Regulations

Federal Communication Commission (FCC) requires that all radio communication products should meet the requirements set forth in the above standards before they can be marketed in the U.S, and the manufacturer shall post a RF label on the product to inform users of operational instructions, so as to enhance their occupational health against exposure to RF energy.

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the Population/Uncontrolled environment RF energy exposure limits in the above standards and guidelines, users should always adhere to the followings:

Gain of antenna must not exceed 0 dBi

Antenna Installation: install the antenna at least 36.5cm away from your body, in accordance with the requirements of the antenna manufacturer/supplier.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment . This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installedand operated with minimum distance 36.5cm between the radiator you body.

For Antenna:



Accord to that antenna length in different regions, only below type antenna was
authoried use in the product.

Antenna Model: LT-298

Antenna Type: Helical antenna

Antenna Gain: 0 dBi