



# CB Radio user manual



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## **SPECIAL WARNINGS**

- ⚠ Please read the following warnings to prevent fires, personal injury, damage to the radio or to the antenna.
- ⚠ Do not try to adjust the radio while driving, it is dangerous.  
The supply voltage of this radio must be 12V or 24V DC.
- ⚠ Do not place the radio on an excessively dusty, wet or unstable surface.
- ⚠ Do not connect the antenna during transmission, risk of skin burns or electric shock.
- ⚠ Please keep your distance from devices that create interference (such as: TV, generator, etc.)
- ⚠ Those who use pacemakers are advised to keep their distance from the antenna during transmission and especially not to touch it.
- ⚠ Do not bring metal objects close to the internal electrical part of the radio, risk of electric shock. Avoid exposing the radio to temperatures lower than -26°C and higher than +80°C. During the summer, the temperature inside a vehicle can exceed 80°C, which can cause irreparable damage to the radio in case of prolonged exposure.
- ⚠ Do not cover the radio with other objects, as this will prevent it from cooling down.
- ⚠ It is important to turn off the radio before starting the engine, to avoid damage caused by high voltage. When replacing the fuse, use a 3A 250V type F fuse.
- ⚠ If an abnormal smell or smoke comes from the radio, turn it off immediately.
- ⚠ Do not transmit for a long time, the radio may heat up and malfunction.
- ⚠ Keep the radio away from children.

## **OTHER WARNINGS**

Before you connect or use this product, please read these operating instructions carefully. Keep this user manual for future use.

Before using the radio, please connect the antenna. Check the SWR before transmitting. A too high SWR can lead to the destruction of the internal components of the radio, which are not covered by the guarantee.

None of the inner components of the radio can be repaired by the user. In case of damage, contact an authorized centre.

To prevent the risk of fire, use only the recommended power supply.

# BUTTONS AND FUNCTIONS



No.	Button Function	Functional Description	Notes
1.	<b>EMG</b>	<ul style="list-style-type: none"> <li><b>Brief Press:</b> Switches to emergency channel 09.</li> <li><b>Brief Press Again:</b> Switches to emergency channel 19.</li> <li><b>Third Brief Press:</b> Returns to the original channel.</li> </ul>	
2.	<b>TX/RX Indicator</b>	<ul style="list-style-type: none"> <li><b>Red LED:</b> Transmission indicator.</li> <li><b>Green LED:</b> Reception indicator.</li> </ul>	
3.	<b>A/F</b>	<ul style="list-style-type: none"> <li><b>Yellow LED On:</b> AM modulation mode.</li> <li><b>LED Off:</b> FM modulation mode.</li> </ul>	If the frequency band you set the radio to does not have AM modulation and you press the A/F key, the radio will remain only in FM mode.
4.	<b>Microphone Connector</b>	6-pin connector for the microphone.	
5.	<b>RFG</b>	<ul style="list-style-type: none"> <li><b>Short Press:</b> Selects RF Gain level. The default "r0" is displayed. Use Up/Down keys to select level (r0- r7).</li> <li><b>Long Press:</b> Selects ASQ level. The default "A3" is displayed. Use Up/Down keys to select level (A1- A5).</li> </ul>	To select ASQ level, you must first activate the ASQ function by pressing the microphone's center button. Activation is indicated by a green LED above the RFG key.

<b>6.</b>	<b>LED Display</b>	The main display screen.	
<b>7 &amp; 8.</b>	<b>Up/Down</b>	Used for channel selection, and for adjusting RF Gain and ASQ levels.	
<b>9.</b>	<b>SQ</b>	<ul style="list-style-type: none"> <li><b>Clockwise:</b> Increases the squelch level.</li> <li><b>Counter-clockwise:</b> Fully opens the squelch.</li> </ul>	Before adjusting manual squelch (SQ), disable the automatic squelch (ASQ) by pressing the microphone's center button. The green LED above the RFG key will turn off
<b>10.</b>	<b>Power/Volume</b>	<ul style="list-style-type: none"> <li><b>Clockwise (from off):</b> Powers on the radio.</li> <li><b>Rotate (when on):</b> Adjusts volume.</li> <li><b>Counter-clockwise (to end):</b> Powers off the radio.</li> </ul>	

## Reset

- 1.Turn off the radio.
- 2.Simultaneously press the PTT + ASQ keys on the microphone while restarting the radio.
- 3.The icon “rE” appears on the screen.
- 4.All settings have returned to factory values.

## FREQUENCY BAND SELECTION

The frequency bands must be chosen according to the country where you are going to operate.

- 1.Turn off the radio.
- 2.Simultaneously press the PTT key + the Up key on the microphone while restarting the radio.
- 3.The A/F LED lights up.
- 4.The current frequency band appears on the screen.
- 5.Press the Up and Down keys to reach the desired frequency band.
- 6.Restart the radio or press the PTT key to exit the frequency band selection mode.

# TECHNICAL SPECIFICATIONS

<b>General</b>	
Frequency Range	26.965- 27.405 MHz
Channels	40
Channel Spacing	10 kHz
Operating Voltage	12V / 24V
Modulation System	AM / FM
1st Intermediate Frequency	10.7 MHz
2nd Intermediate Frequency	450 kHz
Dimensions (L x W x H)	115 x 114.7 x 36.5 mm
Weight	500 g
Operating Temperature	-26°C to +80°C
<b>Receiver</b>	
Frequency Stability	±10 ppm
FM Sensitivity (12dB SINAD)	≤-120 dBm
AM Sensitivity (12dB SINAD)	≤-118 dBm
Intermodulation	≥ 55 dB
Adjacent Channel Selectivity	≥ 55 dB @ 10 kHz
Audio Distortion	≤ 5%
Common Channel Suppression	≤-8 dB @ 10 kHz
Spurious Rejection	≥ 60 dB
Standby Current	200 mA

# TECHNICAL SPECIFICATIONS

Maximum Receiving Current	$\leq 1$ A
Maximum Audio Power	3 W
SNR(dB) @1KHz,(300~3KHz) filter	>40
<b>Transmitter</b>	
TX power	4W
TX current	1.4A
SNR(dB) @1KHz, (300~3KHz) filter	43
Conducted spurious (dBc)	-54dBm@<1GHz -36dBm@>1GHz
Adjacent channel power	-54dB@10KHz
FM modulation limiting	2KHz
AM modulation limiting	80%
FM/AM deviation sensitivity	1.2K/60%      6-12mv
Audio distortion@1KHz, DEV 60%	$\leq 5\%$
Antenna impedance	50 $\Omega$