

ToooAir



USER'S MANUAL
5 Watt UHF CB
Radio

TA-CB01

PRECAUTIONS

- Refer service to qualified technicians only.
- Do not operate the transceiver or charge a battery pack in an explosive atmosphere(gases, dust, fumes, etc.).
- Turn OFF the transceiver while taking on fuel or while parked in a gasoline service station.
- Do not modify or attempt to adjust this transceiver for any reason.
- Do not expose the transceiver to long periods of direct sunlight, nor place it close to heating appliances.
- Do not place the transceiver in excessively dusty, humid, and/or wet areas, nor on unstable surfaces.
- When transmitting, keep the antenna more than 25 mm from any part of the head or body.

Safety: It is important that the operator is aware of, and understands, hazards common to the operation of any transceiver.

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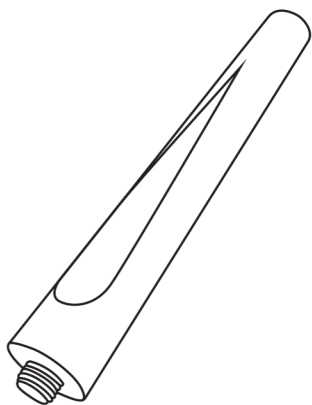
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UNPACKING AND CHECKING EQUIPMENT

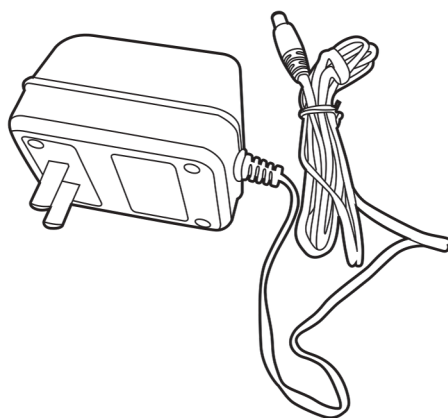
Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

Supplied Accessories

Item	Qty
Antenna	1
Battery charger	1
Li-ion battery pack	1
Belt clip	1
Screw set	1
Instruction manual	1



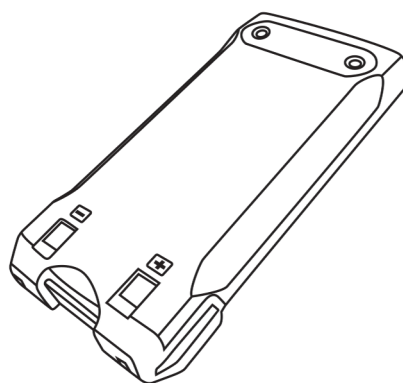
Antenna
(M4)



charger



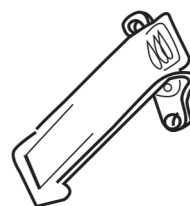
Battery charger



Li-ion battery pack



Screw set



Belt clip

Preparation

Charging the Li-ion Battery Pack

The battery pack is not charged at the factory; charge it before use.

Initially charging the battery pack after purchase or extended storage (greater than 2 months) will not bring the battery pack to its normal operating capacity. After repeating the charge/discharge cycle two or three times, the operating capacity will increase to normal.

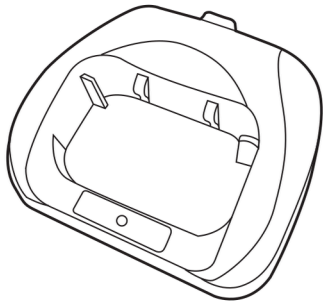


CAUTION

- ◆ DO NOT RECHARGE THE BATTERY PACK IF IT IS ALREADY FULLY CHARGED. DOING SO MAY CAUSE THE LIFE OF THE BATTERY PACK TO SHORTEN OR THE BATTERY PACK MAY BE DAMAGED.
- ◆ AFTER RECHARGING THE BATTERY PACK, DISCONNECT IT FROM THE CHARGER. CHARGING THE BATTERY PACK FOR MORE THAN 5 DAYS MAY REDUCE THE BATTERY PACK LIFE DUE TO OVERCHARGING.

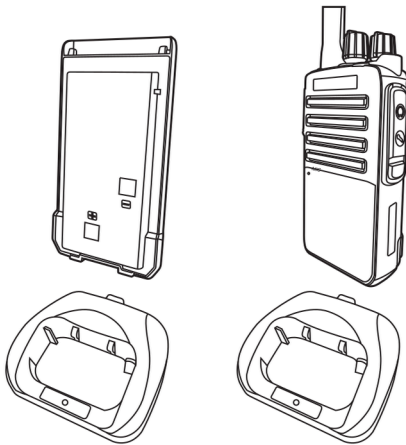
Note:

- ◆ The ambient temperature should be between 41 and 104 F (5 and 40°C) while charging is in progress. Charging outside this range may not fully charge the battery.
- ◆ Always switch OFF the transceiver equipped with a NiMH battery pack before charging. Using the transceiver while charging its battery pack will interfere with correct charging.
- ◆ The battery pack life is over when its operating time decreases even though it is fully and correctly charged. Replace the battery pack.



Plug the AC adaptor cable into the adaptor jack located on the rear of the charger.

Plug the AC adaptor into an AC outlet.



Slide the Li-ion battery pack or transceiver with a Li-ion battery pack into the charger.

- Make sure the battery pack contacts are in contact with the charging terminals.
- The charger LED lights and charging begins.

After charging the supplied battery pack for 8 hours, remove it or the transceiver equipped with it from the charger.

- The charger does not turn OFF automatically after charging is completed.

Unplug the AC adaptor from the AC outlet.

Note: It takes approximately 6 hours to fully charge the optional Li-ion battery pack.

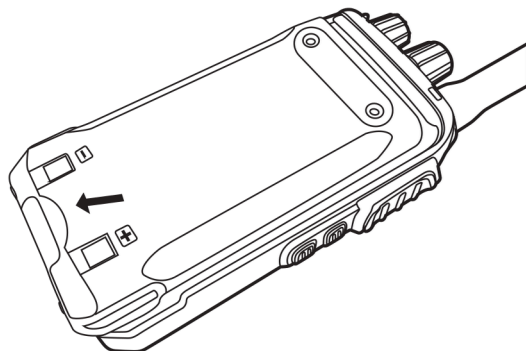
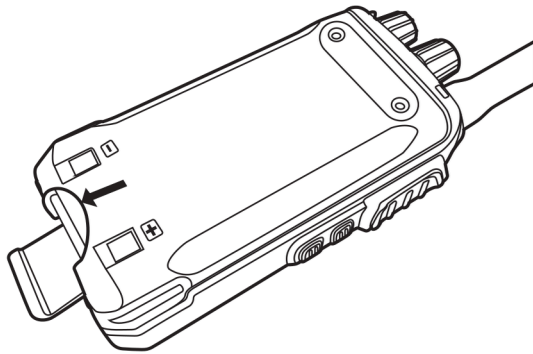
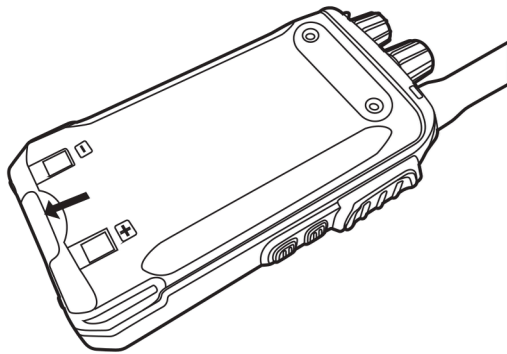
Installing/Removing the Battery Pack

The average life of the supplied Li-ion battery pack is 8 hours. Average times are calculated using 5% transmit time, 5% receive time, and 90% standby time.

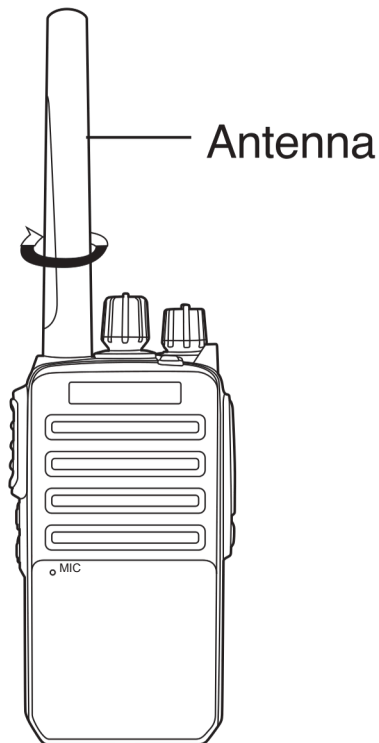


CAUTION

- ◆ DO NOT SHORT THE BATTERY TERMINALS OR DISPOSE OF THE BATTERY BY FIRE.
- ◆ NEVER ATTEMPT TO REMOVE THE CASING FROM THE BATTERY PACK.



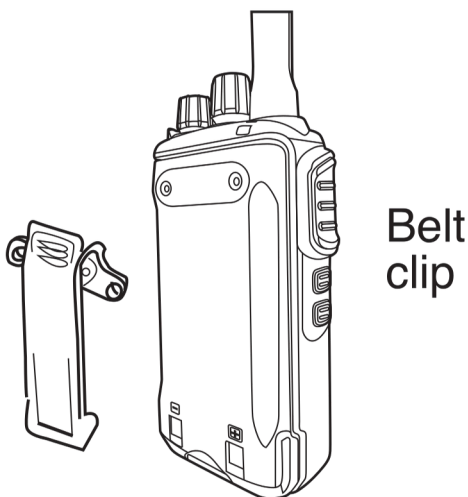
Installing the Antenna



Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.

Note: The antenna is neither a handle, a key ring retainer, nor a speaker/microphone attachment point. Using the antenna in these ways may damage the antenna and degrade your transceiver's performance.

Installing the Belt Clip



If necessary, attach the belt clip using the two supplied 3 x 8 mm screws.

Note: If the belt clip is not installed, its mounting location may get hot during continuous transmission or when left sitting in a hot environment.

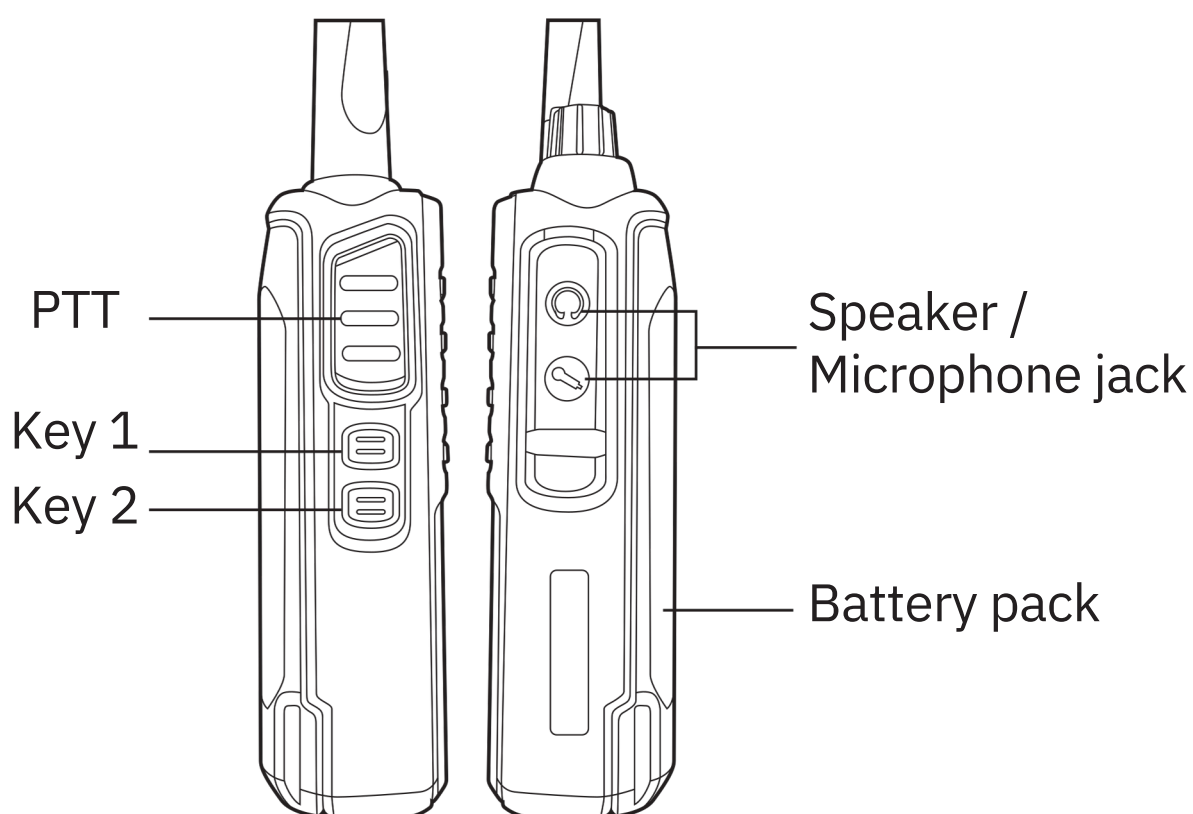
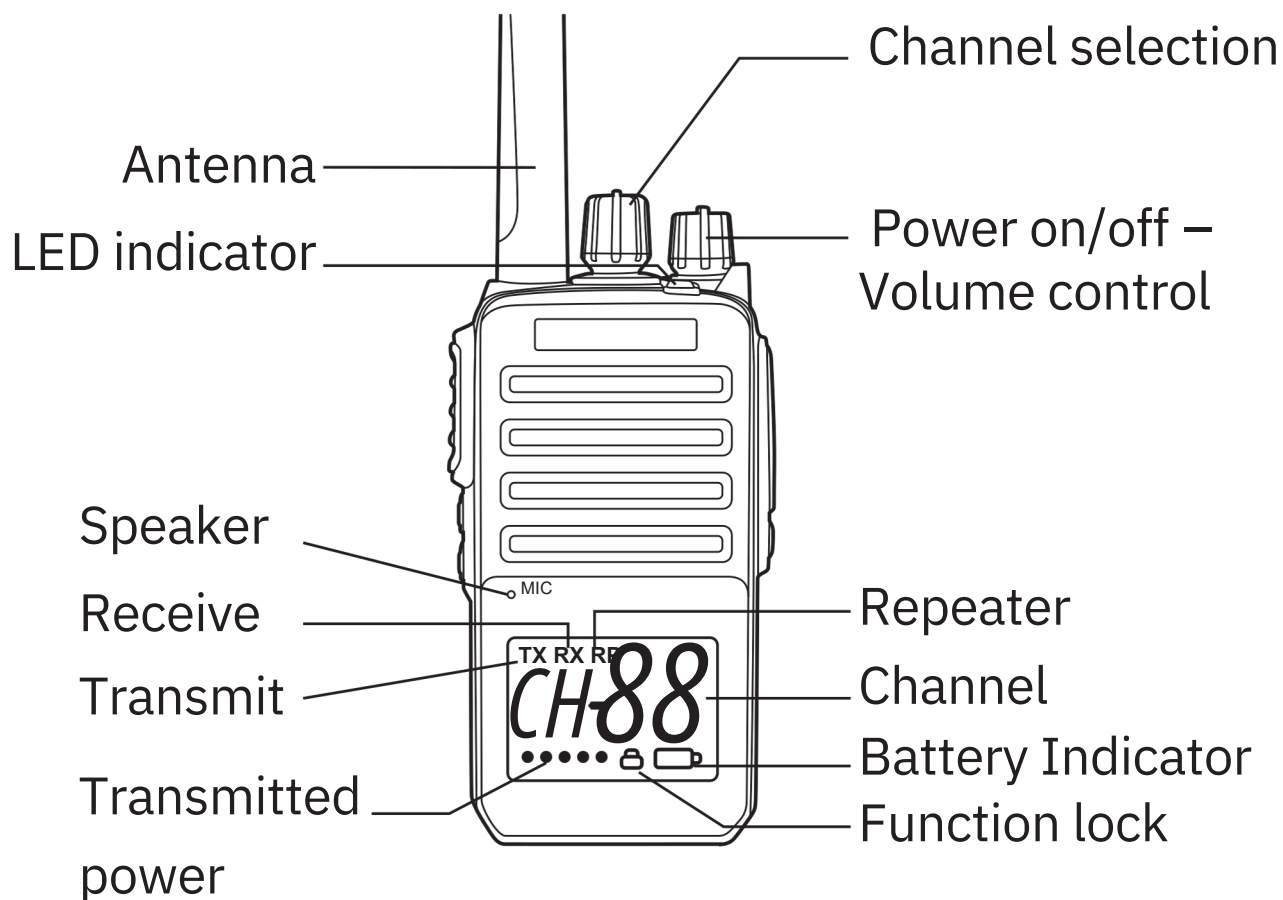
You must remove the belt clip before removing the battery pack.



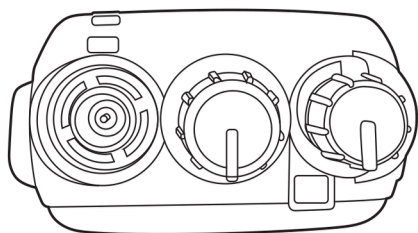
CAUTION

Do not use glue which is designed to prevent screw loosening when installing the belt clip, as it may cause damage to the transceiver. Acrylic ester, which is contained in these glues, may crack the transceiver's back panel.

GETTING ACQUAINTED

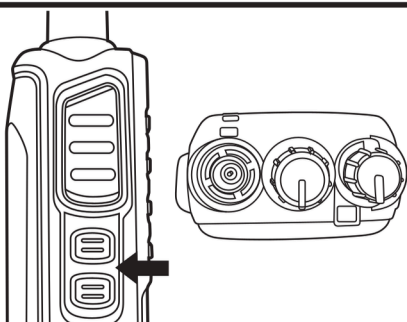


OPERATION

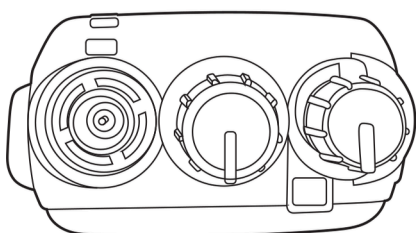


Switch ON the transceiver by turning the Power switch/ Volume control clockwise.

- A beep sounds.

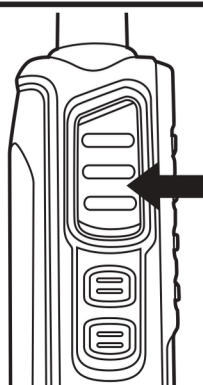


Momentary press Key 1 to open squelch. Adjust the volume by rotating the volume knob. Momentary press Key 1 to close squelch.



Toggle the **Channel** switch to select your desired channel.

- When you receive an appropriate signal, you will hear audio from the speaker.



To make a call, press and hold the **PTT** switch, then speak into the microphone using your normal speaking voice.

- Hold the microphone approximately 1.5 inches (3 to 4 cm) from your lips.

Release the PTT switch to receive.

Note: When the battery pack voltage becomes too low, transmission will stop and the LED will blink red, See "Low Battery Warning" on page 12.

Auxiliary

Time-out Timer

The purpose of the Time-out Timer is to prevent any single person from using a channel for an extended period of time.

If you continuously transmit for 3 minutes, the transceiver will stop transmitting and a tone will sound. To stop the tone, release the **PTT** switch. You can press the **PTT** switch again to resume transmitting.

Battery Save

The Battery Save function decreases the amount of power used when a signal is not being received and no operations are being performed (no keys are being pressed, and no switches are being turned).

While the channel is not busy and no operation is performed for 10 seconds, Battery Save turns ON.

When a signal is received or an operation is performed, Battery Save turns OFF.

Low Battery Warning

Low Battery Warning alerts you when the battery needs to be recharged.

While transmitting, if the battery power goes below a pre-determined value, the LED will blink red. When a tone sounds, the transceiver stops transmitting.

Replace or recharge the battery pack.

Repeater Function (Short press Key 2)

The Repeater function key (Key 2) is used to enable duplex operation, allowing the radio to operate through a repeater. Repeaters are usually installed in a high location and automatically re-transmit your signal over a wider area, providing increased range. The repeater function operates only on designated repeater channels. These are channels 1 – 8 and 41 – 48. Activate repeater mode by momentary pressing “Key 2”. A single beep will sound indicating repeater mode is selected and “RP” will show on the display. The radio will now receive on the selected channel but will transmit 30 channels higher. i.e. if channel 1 is selected the radio will receive on channel 1 but transmit on channel 31. To disable repeater function, momentarily press Key 2, two beeps will be emitted indicating the repeater function is off. All channels will now receive and transmit on the indicated channel

Channel Lock (Long press Key 2)

To prevent accidental channel change, you can lock the rotary channel selector onto a desired channel. To enable or disable the “channel lock” Function hold down Key 2 for two seconds. A beep will be emitted and the locked channel icon on the display will light. The use of the channel selector will now be inoperative. To unlock this function, long press the Key 2 for two seconds. Two beeps will be emitted and the channel lock icon will go out.

Using Your UHF Radio



Using Your UHF Radio

The use of the Citizen Band radio service is licensed in Australia by the ACMA Radio communications (Citizens Band Radio Stations) Class Licence and in New Zealand by the Ministry of Economic Development New Zealand (MED). The General User Radio Licence (GURL) for Citizens Band radio and operation is subject to conditions contained in those licences. The user licence advises that channels 5/35 are for emergency use only. Channel 5 is the primary Simplex Emergency Channel. Where a channel 5 repeater is available, you should select repeater mode on channel 5. Channel 35 is the input channel for the channel 5 repeater, therefore channel 35 should not be used for anything other than emergency transmissions. The primary use for channels 1-8, 31-38, 41-48 and 71-78 are for repeater operation. Any designated repeater channel may be used for simplex operation in areas where it is not used for repeater operation. A user must always monitor a channel before transmitting on the channel to prevent “talking over” another user. The ACMA has also restricted use of channel 22 and 23 for telemetry applications and have prohibited the transmission of speech on these channels. Consequently, the radio will emit a beep tone when pushing the PTT on these two channels. Transmissions on channels 61, 62 and 63 are also inhibited and these channels are reserved for future allocation.

Please note that older 40 channel only radios may cause interference with newer 80 channel radios. This mixing of narrowband and wideband radios radio transceivers (possibly older than 15 years) in the same spectrum may cause operating issues of interference and varying levels of received volume. For example, when a new narrowband radio receives a transmission from an older wideband radio the speech may sound loud and distorted. Alternatively, when an older wideband radio receives a signal from a new narrowband radio, the speech may sound quiet. In each case, simply adjust your radio volume for best performance.

SPECIFICATIONS

Unity Section	
Frequency range	477MHz
Rated Voltage	DC 7.4V(Li-ion battery)
Memory channel	80 channnels
Antenna disposition	inductively loaded antenna
Antenna impedance	50 Ω
Working manner	same frequency single operation or different frequency single operation
Ground method	negative pole
Volume	122X60X33mm
Weight	221g
Launching Parts	
Output power	$\leq 5W$
Modulation mode	frequency modulation
Maximum frequency deviation	$\leq \pm 5KHz$
Remanent radiation	$< -60dB$
Preemphasis character	per fold frequency patch 6dB
Emission current	$\leq 1000mA$
Receiving Parts	
Sensitivity	$< 0.16 \mu V (12dB SINAD)$
Silent sensitivity	$< 0.2 \mu V$
Intel modulation anti-interference	50dB
Audio frequency power	$\geq 300mW$
Receiving current	$\leq 100mA$
Silent waiting	20mA

- Specifications are subject to change for improvements without notice. Complies with AS/ANZ 4365: 2001  

This warranty against defects is given by
Tooo Air Pty Ltd ABN 58 615 252 536 1.

Consumer guarantees

1.1 Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

1.2 To the extent we are able, we exclude all other conditions, warranties and obligations which would otherwise be implied.

2. Warranty against defects

2.1 This warranty is in addition to and does not limit, exclude or restrict your rights under the Competition and Consumer Act 2010 (Australia) or any other mandatory protection laws that may apply.

2.2 We warrant our goods to be free from defects in materials and workmanship for the warranty period of 12 months from the date of original sale. Subject to our obligations under clause 1.2, we will at our option, either repair or replace goods which we are satisfied are defective. We warrant any replacement parts for the remainder of the period of warranty for the goods into which they are incorporated.

2.3 To the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited

(a) in the case of goods we supply, to any one of the following as we decide –
(i) the replacement of the goods or the supply of equivalent goods;
(ii) the repair of the goods;
(iii) the cost of repairing the goods or of acquiring equivalent goods;

(b) in the case of services we supply, to any one of the following as we decide –

- (i) the supplying of the services again;
- (ii) the cost of having the services supplied again.

2.4 For repairs outside the warranty period, we warrant our repairs to be free from defects in materials and workmanship for three months from the date of the original repair. We agree to re-repair or replace (at our option) any materials or workmanship which we are satisfied are defective.

2.5 We warrant that we will perform services with reasonable care and skill and agree to investigate any complaint regarding our services made in good faith. If we are satisfied that the complaint is justified, and as our sole liability to you under this warranty (to the extent permitted at law), we agree to supply those services again at no extra charge to you.

2.6 To make a warranty claim you must before the end of the applicable warranty period, return the goods you allege are defective, provide written details of the defect, and give us an original or copy of the sales invoice or some other evidence showing details of the transaction.

2.7 Send your claim to:
Tooo Air Pty Ltd. Suite 14, 95-97 Grafton Street, Bondi
Junction, NSW 2022.
Tel: (02) 9157 0540
Email: support@toooair.com.au

3. This warranty does not cover

This warranty will not apply in relation to:

- (a) goods modified or altered in any way;
- (b) repairs performed other than by our authorised representative;
- (c) defects or damage resulting from misuse, accident, impact or neglect;
- (d) goods improperly installed or used in a manner contrary to the relevant instruction manual; or
- (e) goods where the serial number has been removed or made illegal
- (f) goods connected to an incorrect power source

4. Warranty period

The warranty on the ToooAir TA-CB01 UHF CB radio and Power Adapter is 12 Months. No repair or replacement during the warranty period will renew or extend the warranty period past the period from the original date of purchase.