



# 2W UHF CB HANDHELD RADIO TWIN PACK

80 CHANNEL  
UHF CB RADIO

APH02R  
**USER GUIDE**



[aerpro.com](http://aerpro.com)

# CONTENTS

<b>WELCOME</b> .....	PAGE: 4
<b>FEATURES</b> .....	PAGE: 4
<b>BOX CONTENTS</b> .....	PAGE: 4
<b>TECHNICAL SPECIFICATIONS</b> .....	PAGE: 4
<b>SAFETY INFORMATION AND WARNINGS</b> .....	PAGE: 5
<b>RADIO CONTROLS</b> .....	PAGE: 7
<b>LCD DISPLAY</b> .....	PAGE: 8
<b>INSTALLING THE BATTERIES &amp; BELT CLIP</b> .....	PAGE: 8
<b>CHARGING &amp; BATTERY MAINTENANCE</b> .....	PAGE: 8
<b>RADIO OPERATIONS</b>	
- Power ON/OFF.....	PAGE: 10
- Volume control.....	PAGE: 10
- Battery voltage display .....	PAGE: 10
- Receiving/Transmitting.....	PAGE: 10
<b>CHANNEL OPERATIONS</b>	
- Changing channels.....	PAGE:11
- CTCSS/DCS.....	PAGE:11
- DCS sub-channels .....	PAGE:11
- VOX.....	PAGE:11
- Setting the call tones .....	PAGE:12
- Key tone .....	PAGE:12
- Roger beep.....	PAGE:12
- Dual channel monitor (DCM).....	PAGE:12
- Scanning for active channel .....	PAGE:12

## CONTENTS (continued)

### CHANNEL OPERATIONS

- Monitor .....	PAGE:13
- Sending a call tone.....	PAGE:13
- Backlit display.....	PAGE:13
- Battery saving function.....	PAGE:13
- Built-in flash light.....	PAGE:13
- Lock & Unlock the device.....	PAGE:13

### FUNCTION

- CTCSS & DCS .....	PAGE:14
- Button beep.....	PAGE:14
- Transmit & receive procedure .....	PAGE:15
- Transmitting range.....	PAGE:15
- Duplex repeater mode.....	PAGE:16
- Selecting repeater .....	PAGE:16

### DUPLEX/REPEATER INFORMATION..... PAGE:17

### UHF CB CHANNEL GUIDELINES..... PAGE:18

### UHF CB CHANNELS AND FREQUENCIES

- UHF channel frequency table.....	PAGE:19
- CTCSS tone table .....	PAGE:20
- DCS code table .....	PAGE:21

### TROUBLE SHOOTING GUIDE..... PAGE:23

### TECHNICAL ASSISTANCE..... PAGE:24

# INTRODUCTION

## WELCOME

---

Thank you for purchasing the Aerpro APH02R 2 Watt UHF CB Radio Kit. Please ensure that you have read the product manual and instructions in full, prior to installation and use. Failure to do so may result in product failure/damage or incorrect operation and therefore impact the product performance.

## FEATURES

---

The kit includes 2 rechargeable 2 Watt handheld radios, 240V charging dock, AC Power USB adapter, 2 x belt clips, 2 x USB cables and 2 x Rechargeable batteries. Key radio features include:

- Up to 12km range
- 2 Watt transmission power
- 80 Narrow-band channels
- Squelch control (automatic)
- CTCSS (38) / DCS (83) codes
- Duplex range extender
- Dual channel monitor
- VOX voice operated exchange
- Channel scan function
- LED torch light
- 10 call ring tones
- Roger beep
- Button beep
- Backlight display

## BOX CONTENTS

---

- UHF CB Radio (x2)
- Belt Clip (x2)
- USB Cable (x2)
- Charging dock
- AC Power USB adapter

## TECHNICAL SPECIFICATIONS

---

Frequency	476.425 - 477.4125 Mhz
Channel number	80 channels
Sub-code	CTCSS 38 and DCS 83 sub-codes
Transmission Power	2 Watts
Battery Type	1300mAh Lithium Battery

# SAFETY INFORMATION AND WARNINGS

## INFORMATION ON SAFE OPERATION

---

Please read this information before installing or using your UHF radio. The operation of your UHF radio in Australia is subject to conditions in the following Licence: In Australia the ACMA Radio communications (Citizen Band Radio Stations) and in New Zealand by MED the General User Radio Licence for Citizen Band Radio.

## SAFETY AND GENERAL USE WHILST IN A VEHICLE

---

Check the State and Federal laws and regulations regarding the use of two way radios in the area where you drive, and always obey them.

## FOR VEHICLES FITTED WITH AIRBAGS

---

When using the radio in a vehicle, do not place your radio in the area over an airbag, or in the airbag deployment area. Airbags inflate with great force, if a radio is placed in the airbag deployment area and the air bag inflates, it may be propelled with great force and cause serious injury to the occupants of the vehicle.

## POTENTIALLY EXPLOSIVE ATMOSPHERES

---

Turn your radio OFF when in any area with a potentially explosive atmosphere. Sparks in such areas could cause an explosion or fire resulting in injury or even death. **NOTE:** Areas with potentially explosive atmospheres are often, but not always clearly marked. They include fueling areas such as below deck on boats; fuel or chemical transfer or storage facilities; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

## BLASTING CAPS AND AREAS

---

To avoid possible interference with blasting operations; turn your radio OFF near electrical blasting caps, or in a "blasting area", or in areas posted: "Turn off the two way radio." Obey all signs and instructions.

## EXPOSURE TO RADIO FREQUENCY ENERGY

---

Your two-way radio complies with Australian Communications Authority Radio Communications (Electromagnetic Radiation-Human Exposure) Standard, 2003. To assure optimal radio performance and make sure human exposure to radio frequency electromagnetic energy is within the guidelines set out in the above standards always adhere to the following radio operating procedures.

## RADIO OPERATION AND EME EXPOSURE

---

Unauthorised antennas, modifications, or attachments could damage the radio and violate compliance. **DO NOT** hold the antenna when the radio is "IN USE." Holding the antenna reduces the effective range. **DO NOT** use the radio if the antenna is damaged. If a damaged antenna makes contact with a persons skin, a minor burn may result.

## **SAFETY INFORMATION AND WARNINGS (continued)**

### **ELECTROMAGNETIC INTERFERENCE/COMPATIBILITY**

Nearly every electronic device is susceptible to electromagnetic interference (EMI). To avoid the possibility of electromagnetic interference and/or compatibility conflicts, turn off the radio in any location where posted notices instruct you to do so such as health care facilities.

### **AIRCRAFT**

When instructed to do so, turn off your radio when on-board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

### **MEDICAL DEVICES – PACEMAKERS**

The Advanced Medical Technology Association recommends a minimum separation of 15cm be maintained between a radio and pacemaker. These recommendations are consistent with the independent research by, and recommendations of, the U.S. Food and Drug Administration. People with pacemakers should:

- ALWAYS keep the radio more than 15cm away from the pacemaker when the radio is powered on.
- NOT carry the radio in the breast pocket (handheld models).
- Use the ear opposite the pacemaker to minimise the potential for interference.
- Turn the radio OFF immediately there is any reason to suspect that interference is taking place.

### **MEDICAL DEVICES – HEARING AIDS**

Some radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

### **MEDICAL DEVICES – OTHER**

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

### **GENERAL WARNINGS**

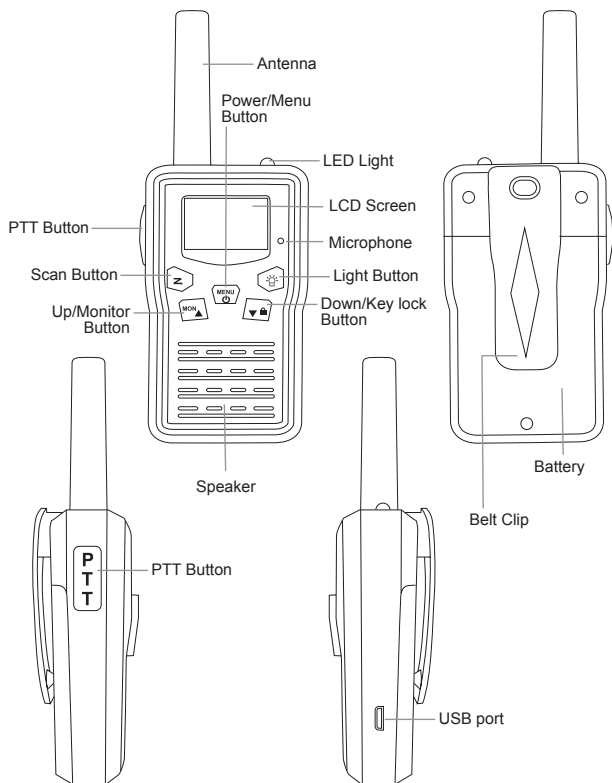
Some radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

### **BATTERIES**

All batteries can cause property damage and/or bodily injury such as burns if conductive material such as jewelry, keys, or beaded chains touch exposed terminals. Do not replace or charge batteries in a potentially explosive atmosphere.

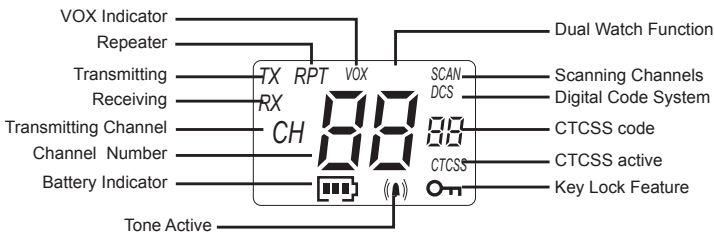
# RADIO CONTROLS

## RADIO LAYOUT



# LCD DISPLAY

## LCD DISPLAY



## INSTALLING THE BATTERIES & BELT CLIP

### Battery pack:

Match the battery pack with the corresponding guides on the back of the transceiver, and push it upwards till it is fully locked by the battery latch. To remove the battery lift locking battery latch up (see arrow direction). After installing the batteries, replace the battery covers and use the supplied screws to fasten in position.

**Note:** If the battery needs to be stored, keep it in status of 50% discharged.

### Belt clip:

Place the belt clip to the corresponding grooves on the back of the transceiver, and then pull downwards. Press and hold release tab, then pull upwards to release.

## CHARGING & BATTERY MAINTENANCE

The battery pack is not charged at the factory; please charge it before use. Charging the battery pack for the first time after purchase or extended storage (more than 2 months) may not bring the battery pack to its normal operating capacity. After fully charging/ discharging cycle for two or three times, the operating capacity will reach its best performance. The battery pack life is over when its operating time decreases even though it is fully and correctly charged. Change to a new battery pack.

**Note:** Batteries are only covered by a 1 year warranty.

### Charger Supplied

Please use the specific charger appointed by our company. Other models may cause explosion and personal injury. After installing the battery pack, if the radio displays low battery with red flashing lamp or voice prompt, please charge the battery.

▲ Always switch OFF the transceiver equipped with a battery pack before charging. Otherwise, it will interfere with correct charging.



## CHARGING & BATTERY MAINTENANCE (continued)

- ▲ To avoid interference with charging, please do not cut off the power or take out the battery during charging.
- ▲ Do not recharge the battery pack if it is already fully charged. This may shorten the life of the battery pack or damage the battery pack.
- ▲ Do not charge the battery or transceiver if it is damp. Dry it before charging to avoid danger.

### **You can charge the battery of the transceiver directly with the USB adapter or charging dock.**

- 1.Plug the AC adapter into the AC outlet, and then plug the cable of the AC adapter into the USB port located on the back of the charger.
- 2.Place the transceiver into the charger. Charging with the transceiver turned off will charge the battery faster. The battery indicator on the transceiver will appear and flash until it's fully charged. It takes approximately 8 hours to fully charge the battery. But, the actual charging time depends on the dump battery. After fully charged, please remember to remove the battery or transceiver out of charger. Over charging will shorten the battery life and reduce its performance.

### **How to Store the Battery**

- 1.If the battery needs to be stored, keep it in status of 50% discharged.
- 2.It should be kept in low temperature and dry environment.
- 3.Keep it away from hot places and direct sunlight.

### **WARNING:**

- ▲ Do not short circuit battery terminals.
- ▲ Never attempt to remove the casing from the battery pack.
- ▲ Never assemble the battery in dangerous surroundings, sparks may cause an explosion.
- ▲ Do not put the battery in hot environment or throw it into a fire, it may cause an explosion.

## RADIO OPERATIONS

### POWER ON/OFF

---

To turn the APH02R on or off, press and hold the Power on/off button for 2 seconds until you hear a beep sound.

### VOLUME CONTROL

---

To increase the volume, press the Up ▲ button. And press the Down ▼ button to decrease the volume.

### BATTERY VOLTAGE DISPLAY

---

The APH02R can detect a low battery level when the battery voltage goes low. When the battery voltage is low, the battery icon will flash on screen and a beep sound will be heard to indicate that the batteries will need to be replaced.

### RECEIVING / TRANSMITTING

---

The devices are in “Standby” mode when it is turned ON and not transmitting. When a signal is received on the current channel, the LCD will display a receiving icon in “reception” mode.

When you press the PTT (push to talk) button, the devices switches to “Transmission” mode. Hold the device in a vertical position with the Mic (microphone) 3-5cm away from your mouth. While holding the PTT button, speak into the microphone in a normal tone of voice. Release the PTT button when you have finished transmitting.

For others to receive your transmission, they must be on the same channel with you.

**NOTE: The talking range will depend on your surroundings and environment. It will be affected by obstructions such as hills or buildings. Don't try to use two devices which are less than 1.5m (5 feet) apart. Otherwise, you may experience interference.**

## CHANNEL OPERATIONS

### CHANGING CHANNELS

---

Press the MENU button one time, the channel number will flash on the display.

Press the Up▲/Down▼ button to change the channel.

Press the PTT button to confirm and return to stand-by mode.

**NOTE: If no button is pressed within 10 seconds during setting, the device will return to stand-by mode.**

### CTCSS / DCS (Continuous Tone Coded Squelch System / Digitally Coded Squelch)

---

Press the MENU button 2 times, the current CTCSS code will flash on the display.

Press the Up▲/Down▼ button to change the 38 available codes.

Press the PTT button to confirm and return to stand-by mode.

When operating on the 476.4250MHz to 477.4125 MHz License free radio frequency band, the APH02R has 80 available radio channels. If there are many device users near you, there is a chance that some of the users are operating on the same radio channel.

When using CTCSS, a low frequency tone (between 67-250Hz) will be transmitted along with the voice signal. CTCSS codes are 01 -> 38, DCS codes are 39 -> 99.

Due to filtering, these sub-channels will generally not be audible so they will not disturb the communication.

### DCS SUB-CHANNELS

---

The APH02R comes with 83 DSC sub-channels on each main channel.

Press the MENU button 3 times, the current DCS code will flash on the display.

Press the Up▲/Down▼ button to change the 83 available codes.

The default DSC code is closed.

### VOX (Hands free function)

---

Press the MENU button 4 times, the current VOX setting will flash on the display and the VOX icon will display.

Press Up▲ button to set the VOX sensitivity level between 1 and 3 level (level 3 is the high sensitive level).

Press Down▼ button until "OF" appears on the display to turn VOX OFF.

Press the PTT button to confirm and return to stand-by mode.

In VOX mode, the radio will transmit a signal when it is activated by your voice or other sound around you.

VOX Operation is not recommended if you plan to use your device in a noisy or windy environment.

**NOTE: VOX mode will be overridden when you press the PTT button.**

## CHANNEL OPERATIONS (continued)

### SETTING THE CALL TONES

---

The device has 10 call tones.

Press the MENU button 5 times, "CA" is displayed and on the current call tone.

Press the Up▲/Down▼ button to change another call tones.

Press the PTT button to confirm and return to stand-by mode.

### KEY TONE ON/OFF

---

You can on/off the key tone when press the buttons.

Press the MENU button 6 times, "KO" will be displayed.

Press the Up▲/Down▼ button disable the key tone ON/OFF.

Press The PTT button to confirm your selection and return to the stand-by mode.

### ROGER BEEP ON/OFF

---

After the PTT button us released, the device will send out a roger beep to confirm that have stopped talking.

1. Press the MENU button 7 times, "RO" will be displayed.

2. Press the Up▲/Down▼ button disable the roger beep ON/OFF.

3. Press The PTT button to confirm your selection and return to the stand-by mode.

### DUAL CHANNEL MONITOR(DCM)

---

Enables you to scan the current channel and another channel alternately.

To set another channel and start Dual Channel Monitor:

1. Press the MENU button 8 times until the "DCM" icon appears. The "OF" icon will flash.

2. Press the Up▲/Down▼ button to select the channel "ON" then press MENU.

3. The Channel NO. will flash, press the Up▲/Down▼ button to select another channel you would like to use.

4. Press the PTT button to confirm your selection and return to the stand-by mode. The two channel NO. will flash and alternate display.

### SCANNING FOR AN ACTIVE RADIO CHANNEL

---

Press the scan button: The "SCAN" function indicator will appear on the display and the channel will scan continuously one by one. Once an active channel is found, the scanning will stop and you can listen to the transmission. When the transmission is on the found channel stop, the scanning will resume automatically.

**NOTE: If you press PTT button while listening to a found channel, the device will go back to stand-by mode on the found channel.**

## CHANNEL OPERATIONS (continued)

### **MONITOR**

---

Press and hold the MON/Up▲ button about 3 seconds to active monitor.  
Release the MON/Up▲ button return to stand by mode.

### **SENDING A CALL TONE**

---

Press the PTT button one time quickly, the call tone will be transmitted on the setting channel.

### **BACKLIT DISPLAY**

---

Press any button except for the Lamp and PTT button to activate the back light of the LCD display. The back light will light on about 5 seconds.

### **BATTERY SAVING FUNCTION**

---

When the device has not been used for 6 seconds, the economy mode is automatically activated. This does not affect the reception of transmission and the stand by mode is automatically re-activated as soon as a signal is detected.

### **BUILT-IN FLASH LIGHT**

---

Your device has a built-in flash light that can be used in sending light signals or for our lighting needs.

### **LOCK & UNLOCK THE DEVICE**

---

Press and hold LOCK/ Down▼ button for 3 seconds to lock the device.  
Press and hold LOCK/ Down▼ button for 3 seconds to unlock the device.

## FUNCTION

### CTCSS & DCS

---

#### WHAT IS CTCSS AND DCS?

CTCSS (Continuous Tone-Coded Squelch System) and DCS (Digitally Coded Squelch) modifies the transmission signal to allow privacy while sharing the same channel, without disturbing each other. This is an important feature on a radio when there are many radio users in the same area.

CTCSS continuously superimposes any one of about 50 low-pitch audio tones on the transmitted signal, ranging from 67 to 254 Hz.

DCS was designed as the digital replacement for CTCSS. DCS adds a 134.4 bps (sub-audible) bit stream to the transmitted audio.

CTCSS or DCS is enabled by on the radio through selectable sub channels.

When CTCSS or DCS is enabled, incoming signals must be on the same CTCSS or DCS sub channel as the receiving radio or they will be filtered out.

**NOTE:** The CTCSS and DCS Tone Charts can be found on page 19 of this instruction manual.

### BUTTON BEEP

---

#### WHAT IS BUTTON BEEP?

When buttons are pressed on the radio (exc. PTT Button), the radio emits a beep tone to indicate the button has been pressed. The radio has button beep default on.

## FUNCTION- Using The UHF Radio

### TRANSMIT AND RECEIVE PROCEDURE

Your UHF radio contains a transmitter and receiver. To control your exposure and ensure compliance with the general population/uncontrolled environment exposure limits, always adhere to the following procedure:

- Transmit no more than 50% of the time.
- To receive calls, release the “**(PTT) BUTTON**” on the microphone handpiece.
- To transmit (talk), press the “**(PTT) BUTTON**” on the microphone handpiece.

When powered on and not transmitting, the radio is always in receive mode. When a signal is received the LCD will display the RX indicator, and then you can hear if the other party is calling. **NOTE:** You may not receive the call if you set a high “squelch off” level of the transceiver.

If current channel has been programmed with signaling, you can only hear the call from the same signaling, other calls can not be heard. For others to receive your transmission, they must be on the same channel as you and if CTCSS or DCS is enabled, the same sub channel must also be selected.

**NOTE:** *Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting (in terms of measuring standards compliance).*

**NOTE:** *Do not transmit between two radios that are less than 1.5m apart, otherwise you may experience interference.*

**NOTE:** *The UHF radio is simplex “one way at a time”. While you are speaking, you can not receive a transmission.*

**NOTE:** *The UHF radio is an open licence band. Always identify yourself when transmitting.*

### TRANSMITTING RANGE

The transmitting range will depend on the antenna, terrain, surroundings and environment, it will be affected by obstructions such as hills, buildings and foliage. The use of duplex mode will extend the transmission range in areas where a repeater station is present.

## FUNCTION- Duplex Mode Via Repeaters

### **DUPLEX REPEATER MODE**

---

This feature allows the use of local repeater stations that are designed to automatically re-transmit your broadcast over large areas, thus increasing the range of the UHF radio. Repeater stations are privately operated radio systems and are installed throughout Australia each repeater station operates on preset channels. Check the area you plan on traveling to for any repeaters and their channel.

The duplex mode on the radio helps increase the range of the radio using repeater stations. In duplex mode, the fixed position station forwards the signal it receives from repeater input stations (31-38)/(71-78) to the corresponding output stations (1-8)/(41-48). Any transmissions sent on non-duplex channels are sent in simplex mode, or directly between radios without the use of a repeater.

### **SELECTING REPEATER**

---

To access the repeat feature, press the "(MENU) button" 9 times, "RP" will display on the screen. Press the "UP button" or "DOWN button" to select an option "on or off".

Once the desired option has been selected, press the "(PTT) button" and this will save the selected option and the radio will return to the default screen.



## DUPLEX / REPEATER INFORMATION

### DUPLEX RECEIVE/TRANSMIT CHANNEL GUIDE

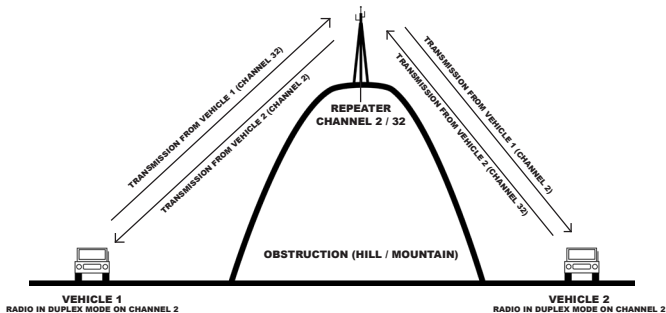
The following table displays the receive and transmit channels when using repeater stations:

Receive Channel	1	2	3	4	5*	6	7	8
Transmit Channel	31	32	33	34	35*	36	37	38

Receive Channel	41	42	43	44	45	46	47	48
Transmit Channel	71	72	73	74	75	76	77	78

\*Channel 5/35 is emergency channel only

### VISUAL REPRESENTATION OF DUPLEX



## UHF CB CHANNEL GUIDELINES

### RADIO COMMUNICATIONS (CITIZEN BAND RADIO STATIONS) CLASS Licence 2002

---

**NOTE:** The operation of your UHF radio in Australia and New Zealand is subject to conditions in the following Licences: In Australia, the ACMA Radio Communications (Citizen Band Radio Stations) and in New Zealand by MED the General User Radio Licence for Citizen Band Radio.

No Licence is required to own or operate this radio in Australia or New Zealand. The Radio Communications (Citizen Band Radio Stations) Class Licence 2002 contains the technical parameters, operating requirements, conditions of Licence and relevant standards for Citizen Band (CB) radios. CB radios must comply with the class Licence for their use to be authorised under the class Licence.

Licences for Repeater Channels 44 & 45 will not be Licenced for an additional 6 to 12 months to allow extra time for owners of Channel 5 Emergency repeaters to upgrade equipment to meet new standards.

Channels 1 to 8 and 41 to 48 – Repeater Channels. Enable duplex mode on your radio to use any available repeaters.

Channels 5 & 35 – Emergency use only. Monitored by volunteers, no general conversations are to take place on these channels.

Channels 22 & 23 – Data transmissions only (excluding packet).

Channels 31 to 38 and 71 to 78 – Repeater inputs. Do not use these channels for simplex transmissions as you will interfere with conversations on channels 1 to 8 and 41 to 48.

The Australian Government legislated that channels 5 & 35 on the UHF CB Band are reserved for emergency use only.

If you do find you are interfering with another persons conversation, just select another channel.

### IMPORTANT CHANNEL INFORMATION

---

A list of currently authorised channels can be obtained from the ACMA website in Australia and the MED website in New Zealand.

Please note the following channel guidelines:

- Channels 01-08 (and 31-38), and Channels 41-48 (and 71-78) are repeater channels.
- Channels 05 and 35 are emergency channels, do not use these unless it is an emergency.
- Channel 11 is a calling channel.
- Channels 22 and 23 are for telemetry and telecommand applications (Data Only).
- Channel 40 - road channel (Australia).
- Channels 61, 62 and 63 are reserved for future use and TX is inhibited on these channels.

# UHF CB CHANNELS AND FREQUENCIES

## UHF CHANNEL FREQUENCY TABLE

CH#	FREQ.	CH #	FREQ.	CH#	FREQ.	CH #	FREQ.
1	476.425	21	476.925	41	476.4375	61	
2	476.450	22	Data Only	42	476.4625	62	Reserved
3	476.475	23	Data Only	43	476.4875	63	Reserved
4	476.500	24	477.000	44	476.5125	64	Reserved 477.0125
5	476.525	25	477.025	45	476.5375	65	477.0375
6	476.550	26	477.050	46	476.5625	66	477.0625
7	476.575	27	477.075	47	476.5875	67	477.0875
8	476.600	28	477.100	48	476.6125	68	477.1125
9	476.625	29	477.125	49	476.6375	69	477.1375
10	476.650	30	477.150	50	476.6625	70	477.1625
11	476.675	31	477.175	51	476.6875	71	477.1875
12	476.700	32	477.200	52	476.7125	72	477.2125
13	476.725	33	477.225	53	476.7375	73	477.2375
14	476.750	34	477.250	54	476.7625	74	477.2625
15	476.775	35	477.275	55	476.7875	75	477.2875
16	476.800	36	477.300	56	476.8125	76	477.3125
17	476.825	37	477.325	57	476.8375	77	477.3375
18	476.850	38	477.350	58	476.8625	78	477.3625
19	476.875	39	477.375	59	476.8875	79	477.3875
20	476.900	40	477.400	60	476.9125	80	477.4125

## UHF CB CHANNELS AND FREQUENCIES (continued)

### CTCSS TONE TABLE (Codes 01 -> 38)

CODE	FREQ. (Hz)	CODE	FREQ. (Hz)
OF	OFF	20	131.8
1	67.0	21	136.5
2	71.9	22	141.3
3	74.4	23	146.2
4	77.0	24	151.4
5	79.7	25	156.7
6	82.5	26	162.2
7	85.4	27	167.9
8	88.5	28	173.8
9	91.5	29	179.9
10	94.8	30	186.2
11	97.4	31	192.8
12	100.0	32	203.5
13	103.5	33	210.7
14	107.2	34	218.1
15	110.9	35	225.7
16	114.8	36	233.6
17	118.8	37	241.8
18	123.0	38	250.3
19	127.3		

# UHF CB CHANNELS AND FREQUENCIES (continued)

## DCS CODE TABLE

CODE	DCS CODE (OCTAL)	CODE	DCS CODE (OCTAL)
39	022	65	152
40	025	66	155
41	028	67	156
42	031	68	162
43	032	69	165
44	038	70	172
45	043	71	174
46	047	72	205
47	051	73	212
48	053	74	223
49	054	75	225
50	065	76	226
51	071	77	243
52	072	78	244
53	073	79	245
54	074	80	246
55	114	81	251
56	115	82	252
57	116	83	255
58	122	84	261
59	125	85	263
60	131	86	265
61	132	87	266
62	134	88	271
63	143	89	274
64	145	90	306



## TROUBLE SHOOTING GUIDE

Problem	Corrective Action
No power	A.The battery pack may be exhausted. Recharge or replace the battery pack. B.The battery pack may not be installed correctly. Remove the battery pack and install it again. C.The power switch is broken. (Contact your local dealer for repairs) D. Battery touch is broken. (Contact your local dealer for repairs)
Battery power dies shortly after correctly charging.	The battery packs life is finished. Replace the battery pack with a new one.
Transceiver cannot scan	The channels are not in the scan list.
No sound after using microphone for a while	Earphone jack is broken. (Contact your local dealer for repairs)
Communication distance becomes short, and it is low sensitivity	A.Check whether the antenna is in good condition and the antenna base does not come adrift. B.The selected mode frequency is not in accordance with local frequency when programming.
Cannot talk to or hear other members in your group	A. Different frequency or channel used, try another. B. Different CTCSS / DCS settings. Please reset settings. C. Out of communication range.
Cannot power on or frequent power-off	Check whether the battery terminals are out of shape or broken.
Receiver cannot hear you or intermittent when receiving sound	Check if the MIC is faulty. (Contact your local dealer for repairs)
Intermittent receiving with loud noise.	A.Out of communication range or obstructed by tall buildings or in basement and so on. B.450 filter is broken, (Contact your local dealer for repairs)
Loudspeaker become lower or with "ka ka" sound after using a certain time	Check whether the loudspeaker net is broken. Iron powder or dust is in the loudspeaker. (Contact your local dealer for repairs)
Receive voice from the other party but can not transmit	Check [PTT] key. (Contact your local dealer for repairs)
Receiving indicating lamp lightens but no sound	A.Low volume, please turn on clockwise. B.Loudspeaker is broken. (Contact your local dealer for repairs) C.Earphone jack is broken. (Contact your local dealer for repairs) D.Volume switch is broken. (Contact your local dealer for repairs)

## TECHNICAL ASSISTANCE

If you need assistance setting up or using your AERPRO product now or in the future, call Aerpro Support. Australia

TEL: 03 – 8587 8898

FAX: 03 – 8587 8866

Mon-Fri 9am – 5pm AEST

Email: [service@tdj.com.au](mailto:service@tdj.com.au)

Please retain this user guide for future reference.

If you would like to download a digital copy of this manual, or other Aerpro manuals/software, please visit the [Aerpro.com](http://Aerpro.com) website and click on 'Firmware & Manuals' or search for the product model number for more information, accessories and products.

This manual is considered correct at time of printing but is subject to change. For latest manuals and updates refer to the website.

Copyright © 2023 by TDJ Australia

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, copying or other electronic or mechanical methods, without the prior written permission of the author.

**[www.aerpro.com](http://www.aerpro.com)**



