



**UHF CB MOBILE 80 CHANNEL 5W
MCR-80RM
User Manual**



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12x17cm

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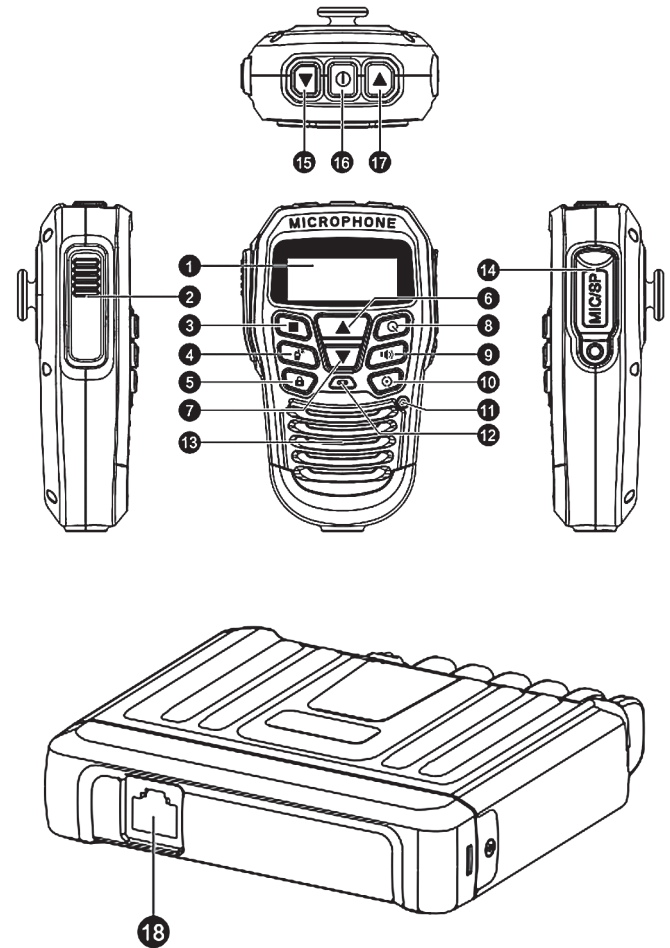
CHECK DEVICE

Please remove radio from its packaging carefully. Ensure that the box has the following items before disposing of the packaging. If any of the items are lost or damaged, submit a claim to the suppliers immediately.

Accessories List

Item	Unit	Qty.
CB Radio	PC	1
Installation Kit	PC	1
Wired Fist Mic	PC	1
User manual	PC	1

CONTROL PANEL FUNCTION

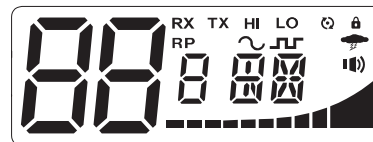


No	Description	Short Press	Long Press
1	LCD		
2	PTT		
3	MENU	Enter menu	Open Repeater Channel
4	Call	Call tone	
5	Lock	Confirm key	Keypad Lock
6	Volume Up	Volume Up	Volume continuous Up
7	Volume Down	Volume Down	Volume continuous Down
8	Quick Access Channel	Recall Quick Access Channel	Set Quick Access Channel
9	Monitor	Select SQL	Open Monitor
10	Scan	Start/Stop Scanning	Add/Remove Memory Scan Channel
11	T/R LED		
12	MIC		
13	Speaker		
14	Jack Cover		
15	Channel Down	Channel down select	Channel continuous down select
16	Power Key		Turn ON/OFF
17	Channel Up	Channel up select	Channel continuous up select
18	RJ-45		

1. OPERATION

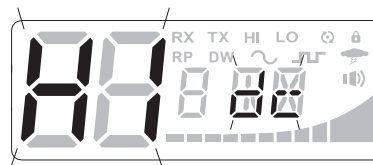
1.0 On/Off

- 1: To turn the radio on, press and hold the "⏻" key for three seconds. The LCD will display full icon for 1s, and the become channel 1 .
- 2: To turn the radio off, press and hold the "⏻" key for three seconds.

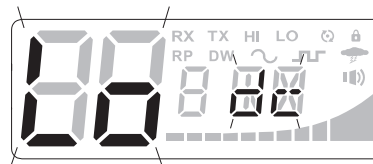


NOTE: Low-Voltage/High-Voltage Alert

If the power supply voltage exceeds 16VDC, an alert tone sounds and HI DC flashes every 2 seconds. The power source must not exceed 25VDC otherwise permanent damage may occur to your radio, which may not be covered by the manufacturer's warranty.



If the input voltage falls below 10VDC, an alert tone sounds and L0 DC flashes every 2 seconds. The power turns off automatically if voltage falls below 8.5VDC.



1.1 Setting the Auto Squelch

The Auto Squelch feature has an OF setting and 9 preset squelch levels:


OF - Squelch open

1 - max sensitivity (min squelch)

5 - med sensitivity (med squelch)

9 - min sensitivity (max/tight squelch)

How to set?

1. Press “

1.2 Selecting a Privacy Code



Continuous Tone Coded Squelch System (CTCSS) and Digitally Coded Squelch (DCS) are systems that allow several users to share the same channel without disturbing each other. When CTCSS or DCS is enabled for a selected channel, the channel is muted to all incoming signals unless they carry the correct CTCSS or DCS tone.

When a transmission with the correct tone is received, the mute function is disabled and the channel audio can be heard. When the transmission ends the channel is muted again. Transmissions that do not have the correct tone will not be heard.

The MCR-80RM has 154 Privacy Codes (50 CTCSS codes and 104 DCS codes), which can be applied to any channel. If desired, you can select a different Privacy Code for each channel. See CTCSS Privacy Codes Frequency Chart and DCS Privacy Codes Chart for lists of available Privacy Codes.

IMPORTANT! To communicate between two radios, both radios must be set to the same channel (see Selecting the Active Channel) and Privacy Code selections.

To select a Privacy Code:

1. Press and release the Menu button to place the radio in “Menu” mode.
2. Use the **Volume Up** or **Volume Down** button to scroll through the menu options until the LCD display shows Pt, then press the Lock button.
3. Use the **Volume Up** or **Volume Down** button to select the privacy tone type you would like to use: OF, Ct, or dC
4. Press the **Lock** button to confirm your selection.
The  (for CTCSS) or  (for DCS) icon will show on the LCD display, according to your selection.
5. Use the **Volume Up** or **Volume Down** button to scroll forward or backward through the available Privacy Codes until the desired Privacy Code is shown on the LCD display.



NOTE: Channel 5 and 35 are used for emergency channel, not allow to set CTCSS(or DCS)

NOTE: DCS Privacy Codes 100-104 are shown on the LCD display as A0-A4.


NOTE: Selecting a Privacy Code of “oF” will disable the Privacy feature.


6. When the desired Privacy Code is shown on the LCD display, press the Lock Button to confirm your selection.

NOTE: YOU MUST PRESS THE LOCK BUTTON TO CONFIRM(ENTER) YOUR SELECTION OR THE PRIVACY CODE WILL NOT BE CHANGED

NOTE: If you select a CTCSS Privacy Code, any pre-selected DCS Privacy Code will be cancelled.

1.3 Monitor

Press and hold “

Press and hold “

1.4 Select a Channel

Press **Channel Up** or **Channel Down** to select the desired channel.

1.5 Set the Quick Access Channel

Press **Channel Up** or **Channel Down** to select the Quick Access Channel you prefer.
Press and hold **[Q]** button on the microphone for 2 seconds to store the new setting.
The LCD will display "Channel + q".

1.6 Recall the Quick Access Channel


Momentarily press the **[Q]** button on the microphone at any time to return to the Quick Access Channel. Press **[Q]** again to return to the previous channel.

1.7 Transmitting

The UHF CB Radio uses UHF-CB Channels. Select the desired channel. Press the microphone's PTT button and speak normally into the microphone. Hold it approx. 7cm from your mouth. Release the [PTT] button to end the transmission and listen for a reply.

NOTE: Channel 22 and 23 are not allowed to transmit. LCD will display "Er" when you transmit.

1.8 Keypad Lock

When the radio is in standby mode, long press and hold **[LOCK]** Key for three seconds, then LCD display  icon.

With the key lock state, press and hold **[LOCK]** for three seconds to unlock.

With radio in the key lock state, none of the function buttons are not available except for the volume control, PTT and Power. Whilst the radio is in the "KEY LOCK" state, the radio would sound "BEEP" if you press any button, and the screen would display LC.



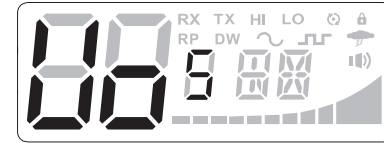
1.9 Call Function

Press the Call button and the radio will send a call alarm signal. The caller can hear the tone and will be confirmed on the display. There will be a "TX" icon displayed on the screen.

Note: When you send out an alarm signal, the signal will only last for three seconds during a 1 minute period. After one minute the alarm will continue.

1.10 Volume control

Press **Volume Up** or **Volume Down** to increase or decrease the volume. The radio will beep with each key press and the display will flash to indicate the volume setting is being displayed. The volume level can be set from 00(min) to 09(max) .



1.11 Duplex operation(Repeater)

Duplex operation allows the radio to transmit on a different frequency to that which it receives allowing operation through repeater stations. Repeaters automatically re-transmit your signal over a wider area, providing an increase in range.

Duplex operation operated only on channels 1-8 and 41-48. When duplex is selected on these channels, the radio receives on that channel but actually transmits 30 channels higher.

Channel Selecting 1 2 3 4 5 6 7 8

Receiving Channel 1 2 3 4 5 6 7 8

Transmitting Channel 31 32 33 34 35 36 37 38

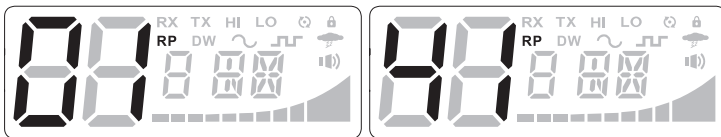
Channel Selecting 41 42 43 44 45 46 47 48

Receiving Channel 41 42 43 44 45 46 47 48

Transmitting Channel 71 72 73 74 75 76 77 78

1.12 Operating the UHF CB Radio in Duplex Mode

Press and hold **[MENU]** for 3 seconds when current channel is between 1-8 and 41-48, duplex mode will be active and the LCD will display "channel + RP", Press and hold **[MENU]** for 3 seconds again to exit duplex mode. "RP" icon disappears.



1.13 Scanning



Press **[SCAN]** and Scanning starts.

The SCAN icon flashes when scanning.

The scan direction can be changed at any time by pressing **Channel Up** or **Channel Down**.

Add/Remove Channels from SCAN Memory

Select which Scanning Mode you wish to use OS or GS. Select the channel you want to store.

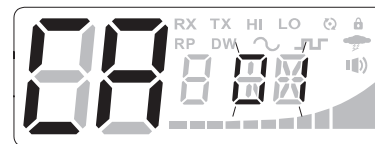
Press and hold **[SCAN]** to store. The  icon appears and a short tone is heard. To remove the channel from SCAN memory, press and hold **[SCAN]** once more. The  icon disappears.

NOTE: If there is repeater channel, it will scan like this: 01-02RP-03-04-05-etc etc (Take channel 2RP for example)

2. MENU

2.1 Selecting the Call tone

1. Briefly press the menu key to enter the menu.
2. Press **Volume Up** or **Volume Down** to select and stop when the LCD display "CA", and press the **[LOCK]** key to confirm and enter call-tone setting. change the setting between 01, 02, 03, 04 and 05.
3. Press **Volume Up** or **Volume Down** to change the call-tone between 01, 02, 03, 04 and 05.
4. Press the **[LOCK]** key to confirm your select.



Note: If a button is not pressed within 5 seconds the UHF CB Radio will automatically exit the Menu Mode.

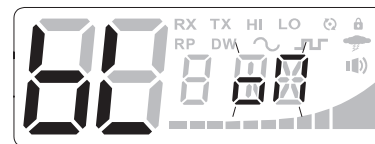
2.2 Busy Channel Lockout

If the channel is already in use, you can prevent the UHF CB Radio from transmitting.

This is particularly important when using CTCSS/DCS.

1. Briefly press the menu key to enter the menu.
2. Then press **Volume Up** or **Volume Down** to select and stop when the LCD display "bp", and press the **[LOCK]** key to confirm and enter Busy-lock setting.
3. Then you can press **Volume Up** or **Volume Down** to choose ON/OFF. And briefly press the **[LOCK]** key to confirm.

If you try to transmit when the radio is receiving, the LCD will display "BL".



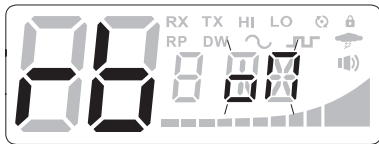
2.3 Key-tone

1. Briefly press the menu key to enter the menu.
2. Then press **Volume Up** or **Volume Down** to select and stop when the LCD display “bp”, and press the **[LOCK]** key to confirm and enter key-tone setting.
3. Then you can press Volume Up or Volume Down to choose ON/OFF. And briefly press the **[LOCK]** key to confirm.



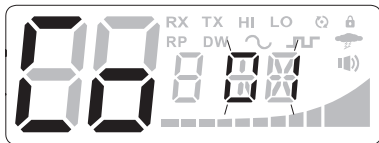
2.4 Roger Beep

1. Briefly press the menu key to enter the menu.
2. Then press **Volume Up** or **Volume Down** to select and stop when the LCD display “rb”, and press the **[LOCK]** key to confirm and enter Roger beep setting
3. Then you can press **Volume Up** or **Volume Down** to choose ON/OFF. And briefly press the **[LOCK]** key to confirm.



2.5 Backlight Color

1. Briefly press the menu key to enter the menu.
2. Then press **Volume Up** or **Volume Down** to select and stop when the LCD display “Co”, and press the **[LOCK]** key to confirm and enter Backlight Color setting.
3. Then you can press **Volume Up** or **Volume Down** to choose from 01 to 08. And briefly press the **[LOCK]** key to confirm.



2.6 Speaker Select

1. Briefly press the menu key to enter the menu.
2. Then press **Volume Up** or **Volume Down** to select and stop when the LCD display “SP”, and press the **[LOCK]** key to confirm and enter Speaker setting.
3. Then you can press **Volume Up** or **Volume Down** to choose between 01 10 and 11. And briefly press the **[LOCK]** key to confirm.

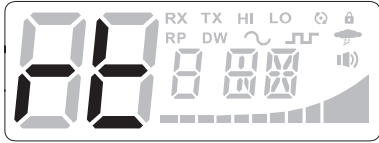
01: The speaker in the main board works

10: The speaker in the microphone works

11: Both the two speaker work

3. Reset Function

To reset the radio ensure the power is turned OFF. Press and hold the [PTT]+[Q], then turn on the radio, the LCD will display "rt", and the radio will return to default setting.



Default setting table

Channel	1	CTCSS/DCS	OFF
Volume	3	Key tone	ON
Roger Beep	OFF	SQL	05
Quick Access Channel	40	SP	11
Call Tone	01	Busy Lockout	OFF
Backlight Color	Red (05)	Memory Channel	ALL 80 channels
Repeater Channel	None	TOT	120S

4. Important Information!!

1. In AUSTRALIA, CHANNELS 5 & 35 may only be used for EMERGENCY purposes.
2. In AUSTRALIA, when the radio turns ON, it will not start up in either CHANNEL 5 or 35.
3. In AUSTRALIA, CHANNELS 22 & 23 may only be used for data and not voice transmissions.
4. In AUSTRALIA, before any transmission on any CHANNEL is made, the user needs to first listen out if any communications are active on the CHANNEL that the user wishes to speak on.
5. In AUSTRALIA & NEW ZEALAND, before any commercial frequencies are programmed to the radio, ACMA & RSM approved licenses needs to be obtained prior to operation.
Ask your DEALER for further information and assistance,
6. QCOM MCR-80RM radios are UHF CB and COMMERCIAL ANALOGUE SPEECH type approved according to RF regulations and standards for AUSTRALIA & NEW ZEALAND.

Frequency List:

MCR-80RM

File Ports

Backlight Color [4] SequelLevel [5] Time Out Time (S) [120S] Volumecon [3]

RogerBeep [Off] KeyTone [On] Busy Lock [Off] Locking Key []

CH	RXFrequency	TXFrequency	RX Code	TX Code	TXPower	W/N	Repeater	ScanningAdd
1	476.42500	476.42500	Off	Off	High	12.5K	Off	On
2	476.45000	476.45000	Off	Off	High	12.5K	Off	On
3	476.47500	476.47500	Off	Off	High	12.5K	Off	On
4	476.50000	476.50000	Off	Off	High	12.5K	Off	On
5	476.52500	476.52500	Off	Off	High	12.5K	Off	On
6	476.55000	476.55000	Off	Off	High	12.5K	Off	On
7	476.57500	476.57500	Off	Off	High	12.5K	Off	On
8	476.60000	476.60000	Off	Off	High	12.5K	Off	On
9	476.62500	476.62500	Off	Off	High	12.5K	Off	On
10	476.65000	476.65000	Off	Off	High	12.5K	Off	On
11	476.67500	476.67500	Off	Off	High	12.5K	Off	On
12	476.70000	476.70000	Off	Off	High	12.5K	Off	On
13	476.72500	476.72500	Off	Off	High	12.5K	Off	On
14	476.75000	476.75000	Off	Off	High	12.5K	Off	On
15	476.77500	476.77500	Off	Off	High	12.5K	Off	On
16	476.80000	476.80000	Off	Off	High	12.5K	Off	On
17	476.82500	476.82500	Off	Off	High	12.5K	Off	On
18	476.85000	476.85000	Off	Off	High	12.5K	Off	On
19	476.87500	476.87500	Off	Off	High	12.5K	Off	On
20	476.90000	476.90000	Off	Off	High	12.5K	Off	On
21	476.92500	476.92500	Off	Off	High	12.5K	Off	On

CH	RXFrequency	TXFrequency	RX Code	TX Code	TXPower	W/N	Repeater	ScanningAdd
22	476.95000		Off	Off	High	12.5K	Off	On
23	476.97500		Off	Off	High	12.5K	Off	On
24	477.00000	477.00000	Off	Off	High	12.5K	Off	On
25	477.02500	477.02500	Off	Off	High	12.5K	Off	On
26	477.05000	477.05000	Off	Off	High	12.5K	Off	On
27	477.07500	477.07500	Off	Off	High	12.5K	Off	On
28	477.10000	477.10000	Off	Off	High	12.5K	Off	On
29	477.12500	477.12500	Off	Off	High	12.5K	Off	On
30	477.15000	477.15000	Off	Off	High	12.5K	Off	On
31	477.17500	477.17500	Off	Off	High	12.5K	Off	On
32	477.20000	477.20000	Off	Off	High	12.5K	Off	On
33	477.22500	477.22500	Off	Off	High	12.5K	Off	On
34	477.25000	477.25000	Off	Off	High	12.5K	Off	On
35	477.27500	477.27500	Off	Off	High	12.5K	Off	On
36	477.30000	477.30000	Off	Off	High	12.5K	Off	On
37	477.32500	477.32500	Off	Off	High	12.5K	Off	On
38	477.35000	477.35000	Off	Off	High	12.5K	Off	On
39	477.37500	477.37500	Off	Off	High	12.5K	Off	On
40	477.40000	477.40000	Off	Off	High	12.5K	Off	On
41	476.43750	476.43750	Off	Off	High	12.5K	Off	On
42	476.46250	476.46250	Off	Off	High	12.5K	Off	On

CH	RXFrequency	TXFrequency	RX Code	TX Code	TXPower	W/N	Repeater	ScanningAdd
43	476.48750	476.48750	Off	Off	High	12.5K	Off	On
44	476.51250	476.51250	Off	Off	High	12.5K	Off	On
45	476.53750	476.53750	Off	Off	High	12.5K	Off	On
46	476.56250	476.56250	Off	Off	High	12.5K	Off	On
47	476.58750	476.58750	Off	Off	High	12.5K	Off	On
48	476.61250	476.61250	Off	Off	High	12.5K	Off	On
49	476.63750	476.63750	Off	Off	High	12.5K	Off	On
50	476.66250	476.66250	Off	Off	High	12.5K	Off	On
51	476.68750	476.68750	Off	Off	High	12.5K	Off	On
52	476.71250	476.71250	Off	Off	High	12.5K	Off	On
53	476.73750	476.73750	Off	Off	High	12.5K	Off	On
54	476.76250	476.76250	Off	Off	High	12.5K	Off	On
55	476.78750	476.78750	Off	Off	High	12.5K	Off	On
56	476.81250	476.81250	Off	Off	High	12.5K	Off	On
57	476.83750	476.83750	Off	Off	High	12.5K	Off	On
58	476.86250	476.86250	Off	Off	High	12.5K	Off	On
59	476.88750	476.88750	Off	Off	High	12.5K	Off	On
60	476.91250	476.91250	Off	Off	High	12.5K	Off	On
61								
62								
63								

CH	RXFrequency	TXFrequency	RX Code	TX Code	TXPower	W/N	Repeater	ScanningAdd
64	477.01250	477.01250	Off	Off	High	12.5K	Off	On
65	477.03750	477.03750	Off	Off	High	12.5K	Off	On
66	477.06250	477.06250	Off	Off	High	12.5K	Off	On
67	477.08750	477.08750	Off	Off	High	12.5K	Off	On
68	477.11250	477.11250	Off	Off	High	12.5K	Off	On
69	477.13750	477.13750	Off	Off	High	12.5K	Off	On
70	477.16250	477.16250	Off	Off	High	12.5K	Off	On
71	477.18750	477.18750	Off	Off	High	12.5K	Off	On
72	477.21250	477.21250	Off	Off	High	12.5K	Off	On
73	477.23750	477.23750	Off	Off	High	12.5K	Off	On
74	477.26250	477.26250	Off	Off	High	12.5K	Off	On
75	477.28750	477.28750	Off	Off	High	12.5K	Off	On
76	477.31250	477.31250	Off	Off	High	12.5K	Off	On
77	477.33750	477.33750	Off	Off	High	12.5K	Off	On
78	477.36250	477.36250	Off	Off	High	12.5K	Off	On
79	477.38750	477.38750	Off	Off	High	12.5K	Off	On
80	477.41250	477.41250	Off	Off	High	12.5K	Off	On
81								
82								
83								
84								

CTCSS Table

01	67.0	11	97.4	21	136.5	31	192.8	41	165.5
02	71.9	12	100.0	22	141.3	32	203.5	42	171.3
03	74.4	13	103.5	23	146.2	33	210.7	43	177.3
04	77.0	14	107.2	24	151.4	34	218.1	44	183.5
05	79.7	15	110.9	25	156.7	35	225.7	45	189.9
06	82.5	16	114.8	26	162.2	36	233.6	46	196.6
07	85.4	17	118.8	27	167.9	37	241.8	47	199.5
08	88.5	18	123.0	28	173.8	38	250.3	48	206.5
09	91.5	19	127.3	29	179.9	39	69.3	49	229.1
10	94.8	20	131.8	30	186.2	40	159.8	50	254.1

DCS Table

01	023	19	116	37	225	55	325	73	452	91	627
02	025	20	122	38	226	56	331	74	454	92	631
03	026	21	125	39	243	57	332	75	455	93	632
04	031	22	131	40	244	58	343	76	462	94	654
05	032	23	132	41	245	59	346	77	464	95	662
06	036	24	134	42	246	60	351	78	465	96	664
07	043	25	143	43	251	61	356	79	466	97	703
08	047	26	145	44	252	62	364	80	503	98	712
09	051	27	152	45	255	63	365	81	506	99	723
10	053	28	155	46	261	64	371	82	516	A0	731
11	054	29	156	47	263	65	411	83	523	A1	732
12	065	30	162	48	265	66	412	84	526	A2	734
13	071	31	165	49	266	67	413	85	532	A3	743
14	072	32	172	50	271	68	423	86	546	A4	754
15	073	33	174	51	274	69	431	87	565		
16	074	34	205	52	306	70	432	88	606		
17	114	35	212	53	311	71	445	89	612		
18	115	36	223	54	315	72	446	90	624		