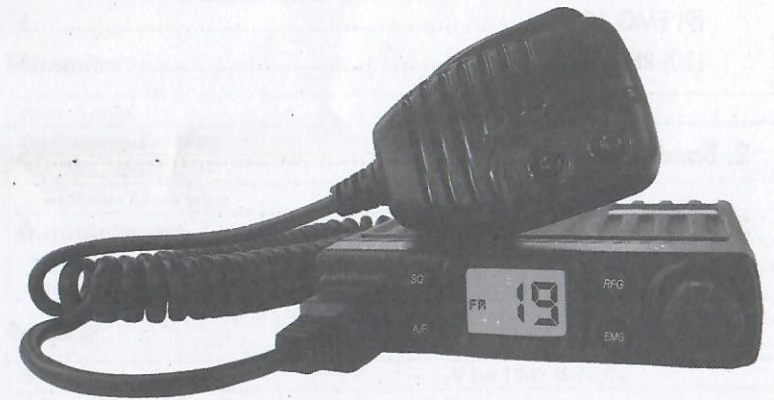


**MOONRAKER** 

# MICRO • CB Radio

HIGH QUALITY MULTI STANDARD CB RADIO

## OWNER'S MANUAL



PLEASE  
RECYCLE



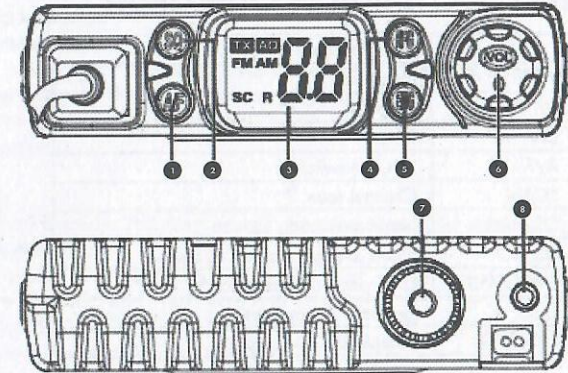
RoHS Compliant  
Directive 2002/95/EC

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MOONRAKER (UK) LIMITED MK17 8UR UK  
www.moonraker.eu



1. A/F Key: AM or FM Switching/Channel Scan
2. SQ Key: SQ\_ASQ/SQ\_SQ
3. LC Display
4. RFG Key: Receive RF Gain Control
5. ENG Key: Emergency Channel /Keyboard Lock
6. Power / Volume Knob
7. Antenna Jack (Type SO-239) for plug type PL-259
8. External Speaker Jack (3.5mm)

## Transmitter

Power Output	4W
FM Frequency Deviation	< 1,9 KHz
AM Modulation Depth	< 90 %
Transmission Interference	< 4nW (-54dBm)
Frequency Response	300-3000Hz
Modulated Signal Distortion	Inferior to 5%
Adjacent Channel Rejection	60dB

## Receiver

Sensitivity	< 1µV bei 10dB (S+N)/N
Adjacent Channel Rejection	60dB
Image Rejection	70dB
IF Frequencies	1.ZF 10.695MHz
	2.ZF 455KHz
Squelch	< 1µV
AudioOutput Power	1 Watt
Audio Impedanz	8 Ω
Frequency Response	300-3000Hz

# 1. Functions Description & Operation

	Basic Functions
PTT	launch key
UP	Button "+"
DN	Button "-"
A/F	AM/FM switch
SCAN	Channel scan
SQ_ASQ	Noise monitoring squelch
SQ_SQ	Signal strength monitoring squelch
EMG_EMG	Emergency channel witching
EMG_LC	the Lock function keys
RFG_RFG	Receive RF Gain control

## (1) Transmit:

Keep pressing PTT button, then you can TX.

## (2) UP:

Used to change CB channels UP.

- Short press: increments by 1 channel.
- Long press: quick channel change (1 channel per second).

## (3) DN:

Used to change CB channels DOWN.

- Short press: increments by 1 channel.
- Long press: quick channel change (1 channel per second).

## (4) A/F:

A short press of this control switches between AM/FM however in UK Mode this will switch between UK FM and CEPT FM.

## (5) SCAN:

A long press of the A/F button will start the radio scanning the channels. The radio will stop scanning on a signal that is greater than the squelch threshold.

## (6) SQ\_ASQ:

This is a noise squelch system that opens when a signal is above the noise level. Long press turns on or off ASQ.

## (7) SQ\_SQ:

This is traditional squelch where the signal strength opens squelch.

## (8) EMG\_EMG:

Emergency channel switching.

Operation instructions: short press "EMG" to switch among "the current channel", "19th channel", "9th channel".

## (9) EMG\_LC:

Keyboard Lock function

### Operation instructions:

- Enter: Long press "EMG" button to enter locked status. Then the screen display "LC". In locked status, all the buttons will be disable except "PTT" button.
- Exit: In locked status, Long press "EMG" again, then the screen display "O F", you will exit the EMG\_LC function.

## (10) RFG\_RFG:

RF Gain control function. This function will effect the intensity of received signal.

### Operation instructions:

- Enter: short press "RFG" button to enter. After that, screen will display the current RFG level, then you can use "UP" and "DN" button to adjust RFG level. The RFG levels are not continuous sequence, but "06", "12", "18", "24", "30", "36", "42", "48", eight levels in total. When the RFG is enabled, the intensity of receiving signal will be declined. The higher the level, the greater the attenuation. After finished setting, wait for a while without any operation, the radio will turn to ready status automatically and display "R" icon on the screen.
- Exit: short press "RFG" button to enter RFG setting status firstly, then short press "RFG" again will disable the RFG function.

# 2. Band Change

To Change band Power up the radio while pressing the A/F button

- Use the UP or DN buttons to select the desired band.
- Once selected turn the radio off and back on.
- You will now be on the chosen band.

MODEL0:Normal CE band mode			
Channel/Power	Frequency	Band	Note
40CH FM 4W	26.965-27.405MHz	CE	
40CH FM 4W	27.60125-27.99125	UK	
40CH AM/FM 4W	26.960-27.400MHz	PL	
40CH AM/FM 4W	26.965-27.405MHz	I	
34CH AM/FM 4W	26.875-27.265MHz	I2	
1-40CH AM/FM 4W	26.965-27.405MHz		
41-80CH FM 4W	26.565-26.955MHz	DE	
27CH AM/FM 4W	26.965-27.275MHz	IN	
40CH AM/FM 4W	26.965-27.405MHz	EU	Default

### 3. Frequency List

CE							
Only FM (4W, 40 Channel)							
1	26.965	11	27.085	21	27.215	31	27.315
2	26.975	12	27.105	22	27.225	32	27.325
3	26.985	13	27.115	23	27.255	33	27.335
4	27.005	14	27.125	24	27.235	34	27.345
5	27.015	15	27.135	25	27.245	35	27.355
6	27.025	16	27.155	26	27.265	36	27.365
7	27.035	17	27.165	27	27.275	37	27.375
8	27.055	18	27.175	28	27.285	38	27.385
9	27.065	19	27.185	29	27.295	39	27.395
10	27.075	20	27.205	30	27.305	40	27.405

UK							
FM (UK Model, 4W, 40 Channel)				FM (CE Model, 4W, 40 Channel)			
1	27.60125	21	27.80125	1	26.965	21	27.215
2	27.61125	22	27.81125	2	26.975	22	27.225
3	27.62125	23	27.82125	3	26.985	23	27.255
4	27.63125	24	27.83125	4	27.005	24	27.235
5	27.64125	25	27.84125	5	27.015	25	27.245
6	27.65125	26	27.85125	6	27.025	26	27.265
7	27.66125	27	27.86125	7	27.035	27	27.275
8	27.67125	28	27.87125	8	27.055	28	27.285
9	27.68125	29	27.88125	9	27.065	29	27.295
10	27.69125	30	27.89125	10	27.075	30	27.305
11	27.70125	31	27.90125	11	27.085	31	27.315
12	27.71125	32	27.91125	12	27.105	32	27.325
13	27.72125	33	27.92125	13	27.115	33	27.335
14	27.73125	34	27.93125	14	27.125	34	27.345
15	27.74125	35	27.94125	15	27.135	35	27.355
16	27.75125	36	27.95125	16	27.155	36	27.365
17	27.76125	37	27.96125	17	27.165	37	27.375
18	27.77125	38	27.97125	18	27.175	38	27.385
19	27.78125	39	27.98125	19	27.185	39	27.395
20	27.79125	40	27.99125	20	27.205	40	27.405

PL							
FM (4W, 40 Channel) / Am (4W, 40 Channel)							
1	26.960	11	27.080	21	27.210	31	27.310
2	26.970	12	27.100	22	27.220	32	27.320
3	26.980	13	27.110	23	27.250	33	27.330
4	27.000	14	27.120	24	27.230	34	27.340
5	27.010	15	27.130	25	27.240	35	27.350
6	27.020	16	27.150	26	27.260	36	27.360
7	27.030	17	27.160	27	27.270	37	27.370
8	27.050	18	27.170	28	27.280	38	27.380
9	27.060	19	27.180	29	27.290	39	27.390
10	27.070	20	27.200	30	27.300	40	27.400

i							
FMAM (4W, 40 Channel) / AM (4W, 40 Channel)							
1	26.965	11	27.085	21	27.215	31	27.315
2	26.975	12	27.105	22	27.225	32	27.325
3	26.985	13	27.115	23	27.255	33	27.335
4	27.005	14	27.125	24	27.235	34	27.345
5	27.015	15	27.135	25	27.245	35	27.355
6	27.025	16	27.155	26	27.265	36	27.365
7	27.035	17	27.165	27	27.275	37	27.375
8	27.055	18	27.175	28	27.285	38	27.385
9	27.065	19	27.185	29	27.295	39	27.395
10	27.075	20	27.205	30	27.305	40	27.405

i2							
FM/AM (4W, 34 Channel)							
1	26.965	11	27.085	21	27.215	31	26.925
2	26.975	12	27.105	22	27.225	32	26.935
3	26.985	13	27.115	23	27.255	33	26.945
4	27.005	14	27.125	24	27.245	34	26.955
5	27.015	15	27.135	25	27.265		
6	27.025	16	27.155	26	26.875		
7	27.035	17	27.165	27	26.885		
8	27.055	18	27.175	28	26.895		
9	27.065	19	27.185	29	26.905		
10	27.075	20	27.205	30	26.915		

DE							
FM (4W, 40 Channel) / AM (4W, 40 Channel)				FM (4W, 40 Channel)			
1	26.965	21	27.215	41	26.565	61	26.765
2	26.975	22	27.225	42	26.575	62	26.775
3	26.985	23	27.255	43	26.585	63	26.785
4	27.005	24	27.235	44	26.595	64	26.795
5	27.015	25	27.245	45	26.605	65	26.805
6	27.025	26	27.265	46	26.615	66	26.815
7	27.035	27	27.275	47	26.625	67	26.825
8	27.055	28	27.285	48	26.635	68	26.835
9	27.065	29	27.295	49	26.645	69	26.845
10	27.075	30	27.305	50	26.655	70	26.855
11	27.085	31	27.315	51	26.665	71	26.865
12	27.105	32	27.325	52	26.675	72	26.875
13	27.115	33	27.335	53	26.685	73	26.885
14	27.125	34	27.345	54	26.695	74	26.895
15	27.135	35	27.355	55	26.705	75	26.905
16	27.155	36	27.365	56	26.715	76	26.915
17	27.165	37	27.375	57	26.725	77	26.925
18	27.175	38	27.385	58	26.735	78	26.935
19	27.185	39	27.395	59	26.745	79	26.945
20	27.205	40	27.405	60	26.755	80	26.955

IN							
FM (4W, 27 Channel) / Am (4W, 27 Channel)							
1	26.965	8	27.055	15	27.135	22	27.225
2	26.975	9	27.065	16	27.155	23	27.255
3	26.985	10	27.075	17	27.165	24	27.235
4	27.005	11	27.085	18	27.175	25	27.245
5	27.015	12	27.105	19	27.185	26	27.265
6	27.025	13	27.115	20	27.205	27	27.275
7	27.035	14	27.125	21	27.215		

EU							
FM (4W, 40 Channel) / Am (4W, 40 Channel)							
1	26.965	11	27.085	21	27.215	31	27.315
2	26.975	12	27.105	22	27.225	32	27.325
3	26.985	13	27.115	23	27.255	33	27.335
4	27.005	14	27.125	24	27.235	34	27.345
5	27.015	15	27.135	25	27.245	35	27.355
6	27.025	16	27.155	26	27.265	36	27.365
7	27.035	17	27.165	27	27.275	37	27.375
8	27.055	18	27.175	28	27.285	38	27.385
9	27.065	19	27.185	29	27.295	39	27.395
10	27.075	20	27.205	30	27.305	40	27.405