MOONRAKER MICRO II Mobile Cb Transceiver User Manual

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Specifications

Dimensions	102 x 100 x 25 mm³
Weight	450 gr
Supply Voltage	13,2 V
Current Consumption	2 A max
Operating Temperature Range	-20 to +50°C
Antenna Socket	UHF, SO-239
Frequency Error	< +/- 300 Hz
TX Power	4 Watt
Spurious Transmissions	< 4 nW (-54 dBm)
Adjacent Channel Power	< 20 µW
FM Deviation	1.9 kHz
AM Modulation	Index 85-90%
RX Sensitivity	better than 1 µV
Image Rejection	70dB
Adjacent Channel Rejection	60dB
Audio Output	1 Watt into 8 Ohm
Frequency Response	300-3000Hz

Introduction

The Micro II can be operated as a mobile station in a car or with a suitable DC power supply as a base station. This device complies with the latest European CB standards. Due to its selectable CB standards, it can be used throughout Europe. Please select only a CB standard that is allowed in the country of use.

Features

- Multi-standard device
- Up/ASQ/Downkeyss on the microphone

- Channel Scan
- LCD, S-Meter
- ASQ Automatic squelch, adjustable
- RF Gain
- Socket for external loudspeaker

Installation

Select the mounting location so that road safety is not affected by the device, or additional risk of injury if an accident arises. Check that the display can be seen and the controls can easily be accessed.

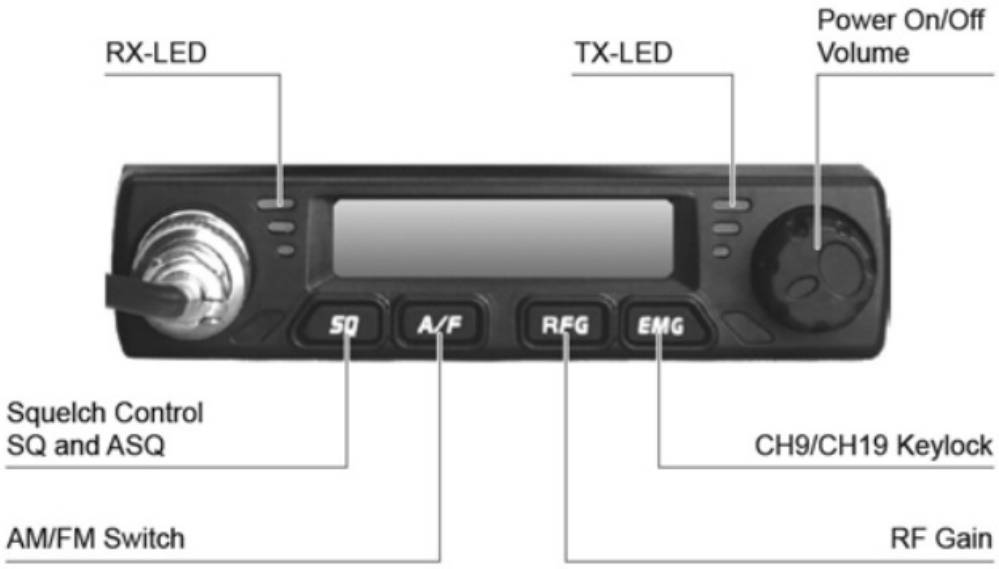
Power Supply

- **Fuse:** A fuse in the power cable protects against damage caused by technical defects or incorrect polarity. If this fuse is blown, first eliminate the error and then replace the blown fuse with a similar spare fuse (5A). If the fuse burns several times, please contact your supplier.
- **Car Operation:** The red wire of the power cable must be connected to the positive terminal (+12 V), the black wire to the negative terminal. If possible the radio should be connected directly to the vehicle battery, because this is the point with the least interference from the cars electrical system. The device can also be connected behind the ignition switch.
- **Operation with AC Adapter:** Operate your radio with a stable power source, that is capable of providing at least 2A at 12-13.8V DC. Unregulated power supplies or battery chargers are unsuitable and can cause damage. Connect the red lead to the positive (+) terminal of the power supply, and the black wire to the negative (-) terminal of the power supply.

Antenna Connection
Connect the CB antenna to the ANT socket on the back of your Micro II. The antenna must be tuned to the CB radio band. For this use a SWR meter. For a good radio range. The SWR should not exceed a value of 2:1. A high SWR also points to defects in the antenna, cable, or a short circuit in the antenna cable. Never transmit without a connected antenna!
Note: The radio antenna is to be mounted away from other antennas and potential interference sources as much as possible. CB antennas must be mounted on a metal surface sufficiently large enough for the antenna to function correctly.

Controls

Front View



Operation

Power On/Off the radio

1. Turn VOL switch clockwise to power on the radio, the LCDs the CB standard followed by the channel number.
2. Turn the VOL knob counterclockwise, until it clicks. The radio is powered off.

Volume control

1. Turn clockwise to increase volume and turn counterclockwise to decrease volume.

Channel Selection

1. Shortly press microphone [UP] or [DN] to change the working channel.
2. Hold microphone [UP] or [DN] to change the working channel fast.

Squelch level control (28 level and off)

1. Shortly press [SQ], until LCD shortly displays “SQ” and then displays X.X, X.X stands for the SQ level.

0.F	Squelch off
0.1	lowest Squelch level
..	..
2.8	highest Squelch level

2. Press microphone [UP] or [DN] shortly to change the SQ level
3. Hold microphone [UP] or [DN] to change the SQ level fast.
4. Hold [SQ] or wait for 3 seconds to store and exit.

Note: Higher SQ levels require a stronger signal to open the speaker and hear the calling.

ASQ control (9 levels)

1. Hold [SQ] key, until LCD displays AQ, the ASQ function is turned on. The LCD will display “A.X”, X stands for

the ASQ level.

A.1	lowest ASQ level
..	..
A.9	highest ASQ level

2. Shortly press microphone [UP] or [DN] to change the ASQ level
3. Hold microphone [UP] or [DN] to change the ASQ level fast fast
4. Hold [SQ] or wait for 3 seconds to store and exit.

Note: Higher ASQ levels require a stronger signal to open the speaker and hear the calling.

Modulation Type

1. Shortly press the A/F] key to switch between AM /FM mode.
2. The LLCDsthe selected mode.

RF Gain control

1. Shortly pressing the [RFG] key, the LCDs R, and the present RF gain level flashes.
2. Shortly press microphone [UP] or [DN] to change the level of attenuation.
3. Shortly press the [RFG] key to exit RF gain level control.

Note: When the RFG function is on, the LCDs “R”, if RFG level 6 is selected it means the attenuation is 6 dB

Emergency Channel

1. Shortly press the [EMG] key to choose CH9 and the channel number flashes.
2. Shortly press the [EMG] key again to choose CH19 and the channel number flashes.
3. Shortly press the [EMG] key a third time to return to the last normal channel.

Key Lock

1. Hold the [EMG] key for over 2 seconds to lock the keys, LCDs “LC”
2. Hold the [EMG] key for over 2 seconds again to unlock the keys, LCDs OF.

Note: In lock Mode, all keys except PTT are valid.

Scan function

1. Hold [A/F] to start the scan function, and “SC” flashes in the LCD.
2. Press microphone [UP] or [DN] to change scan direction during scan.
3. Press the [A/F] or [PTT] key to exit the scan function.

Changing the CB-Standard

1. Hold [A/F] while powering the radio on, until the CD displays the norms.

2. Press microphone [UP] or [DN] to choose wanted norms.
3. Power off and power on again

Standard	Channels	Frequency Range
EU	40 FM/40 AM	26.965-27.405MHz
CE	40 FM	26.965-27.405MHz
UK	40 CH FM	27.60125-27.99125MHz
PL	40 FM/40 AM	26.960-27.400MHz
I2	36 FM/36 AM	26.965-26.865MHz
DE	40 FM/40 AM	26.965-27.405MHz
	80 FM	26.565-26.955MHz
IN	27 FM/27 AM	26.965-27.275MHz
NZ	40 FM/40 AM	26.330-26.770MHz
US	40 AM	26.965-27.405MHz

External Speaker
An external speaker (8 Ohm) can be connected to the 3.5mm mono socket on the back of the radio. The built-in speaker automatically turns off when a plug is inserted into this jack.

Restore factory default

1. Hold the [SQ] key while powering the radio on, until the LCD displays “rt”.
2. All channel and function setting will resume factory default after above operation.

Disposal and Recycling

This radio was manufactured low-emission according to the European WEEE directive. Please note that electronic and electric devices are not to be disposed of with household waste; return these devices to collection points. Returning devices is free of charge for end users since the industry is covering the disposal costs. By returning the device to a collection point you contribute to the recycling of valuable raw materials.

FAQs

Q: How do I tune the antenna for optimal performance?

A: To tune the antenna, refer to the user manual for specific instructions on adjusting the antenna length or SWR settings.

Q: Can I use the MICRO II in my vehicle?

A: Yes, the MICRO II is designed for mobile use and can be installed in vehicles with the appropriate power supply and antenna setup.

Documents / Resources

	**MOONRAKER MICRO II Mobile Cb Transceiver** [pdf] User Manual MICRO II Mobile Cb Transceiver, MICRO II, Mobile Cb Transceiver, Cb Transceiver

References

- **User Manual**