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Client: J & M Corp. Model: JMCB-2003 Standards: FCC Part 95/IC RSS-136 Report Number: 2003126 Date: August 21, 2003

APPENDIX I: MANUAL

Please refer to the following pages.



Quality Motorcycle Audio

JMCB-2003

Handlebar-mounted 40 Channel
Citizen's Band Transceiver (CB)/
Weather Radio with Rider-Passenger Intercom
and Auxiliary Audio Input



Owner's Manual

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1. Product Description

The JMCB-2003 is a compact Citizen's Band radio designed to operate in the 26.965 MHz to 27.405 MHz band. This lightweight unit also features rider-to-passenger intercom, an auxiliary audio input for an audio source such as an MP-3 player, and ten weather channels, consisting of seven NOAA frequencies and three international marine frequencies.

2. FCC Regulations

You do not need an FCC license to operate this radio in the United States. However, you must know and be familiar with Part 95 of the FCC Rules in regard to Subpart D of the Citizen's Band Radio Service, a copy of which is enclosed in the JMCB-2003 packaging.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

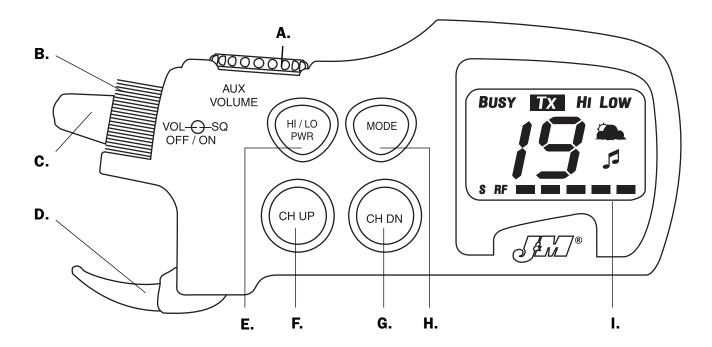
3. Performance Features

- Maximum legal RF output Power (4W) with high-level modulation (in accordance with FCC Part 95 rules).
- Radio receives current National Weather Service broadcasts on one or more of seven separate frequencies and periodic marine weather information on three separate frequencies.
- Hi/Lo TX Power selection button
- Built-in automatic gain control (AGC)
- Phase locked loop synthesizer provides clear voice transmission and reception on all CB channels
- Integrated rider-passenger intercom
- Auxiliary audio input (stereo)

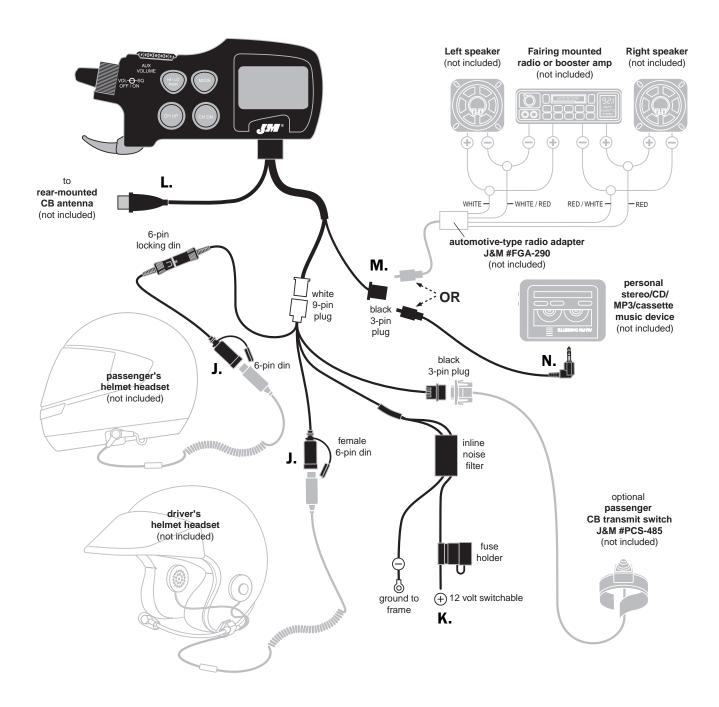
4. Package Contents

- CB unit JMCB-2003
- 12V Power harness
- Headset connection cables
- Auxiliary audio input cable
- Owner's manual
- Copy of FCC Part 95, Subpart D
- Copy of NOAA Weather Network frequency list

5 Controls and Functions



- **A. Auxiliary Audio Volume**—Controls auxiliary audio/input volume to the headsets.
- **B. Squelch Control**—Allows CB background noise to be eliminated when no signal is present.
- **C. On/Off CB and Intercom Volume Control**—In the inward position the knob turns the entire unit on and off and controls the CB volume. In the pulled-out position, the knob controls the intercom volume.
- **D. Push-To-Talk Lever**—Activates CB radio transmission mode.
- **E. Hi/Lo Power Selector Button**—Controls CB TX power level.
- **F. Channel Up**—Selects any one of the 40 channels available on the CB radio. It is also used to select any one of the 10 weather channels in the Weather Mode.
- **G. Channel Down**—Selects any one of the 40 channels available on the CB radio. It is also used to select any one of the 10 weather channels in the Weather Mode.
- **H. Mode**—Used to select CB channels, weather channels or keypad beep.
- **I. LCD Display**—Identifies CB or weather channe, Tx (transmit), Wx (weather mode), and signal/power strength.



- J. Helmet Headset Plugs—Allows hookup to J&M helmet headsets.
- **K. 12V DC Power Cord**—Provides power and ground for the JMCB-2003.
- L. PL-258 Connector—Antenna connector for a rear-mounted CB antenna.
- **M. 3-Pin Connector**—Connects auxiliary audio input to a Walkman®-type music device or other type of stereo radio system.
- N. Auxiliary Audio Cable—Connects to a Walkman®-type music device.

6. Installation Instructions

- 1) Mount the JMCB-2003 to the left handlebar using the mounting bracket kit that is applicable to your specific make and model of motorcycle. (Mounting Bracket Kits are sold separately.)
- 2) Route the wires from the CB radio down the handlebar. Plug in the white 9-pin plug from the supplied wiring harness. Connect the power wire (red) to a switchable power source or accessory terminal so that the unit is automatically turned off when the ignition is turned off. Connect the black wire to a frame ground (not to the battery negative). If it becomes necessary to replace the fuse, use a 5 amp fuse for the red wire.
- 3) Connect the black 3-pin plug to the auxiliary audio cable and route the cable to the auxiliary audio source.
- 4) Route all other cables where desired and hook them up according to the wiring diagram.
- 5) Secure all wires and cables with the zip ties provided.

7. Operation of the JMCB-2003

- 1) With a helmet headset connected to the JMCB-2003 turn the ignition switch to the ON position.
- 2) Rotate the SQUELCH knob on the JMCB-2003 fully clockwise.
- 3) Adjust the OFF/ON CB volume knob to a comfortable volume level and select the desired CB channel.
- 4) Rotate the SQUELCH knob counterclockwise until the background noise is removed.
- 5) Plug in your auxiliary audio/music device and adjust the AUX VOL control on the JMCB-2003 fully clockwise to maximum volume. Adjust the volume on the auxiliary audio source to a maximum level just before distortion and then adjust the AUX VOL control on the JMCB-2003 down to comfortable level. Further volume adjustments while riding should be made with the CB mounted AUX VOL control only.
- 6) The intercom volume can be adjusted by pulling out the CB VOL OFF/ON knob. Turning the knob clockwise will increase the intercom volume. When the intercom has

been adjusted to a comfortable level, push the VOL OFF/ON knob back to the inward position.

7) Weather channels can be accessed by depressing the MODE button once then using the CH UP and CH DN buttons to select one of the ten weather channels.

The National Weather Service uses several special radio frequencies to provide continuous reports of the local weather conditions and forecasts throughout the United States. Taped weather messages are repeated every four to six minutes on a 24-hour basis and are routinely revised every one to three hours, or more frequently if needed.

During severe weather, the routine weather broadcasts will be interrupted with special weather warning messages.

The JMCB-2003 is designed to receive all these special weather frequencies plus three international marine frequencies. An NOAA Weather Radio Network Frequency pamphlet is enclosed to identify the frequencies specifically broadcast for your geographical area.

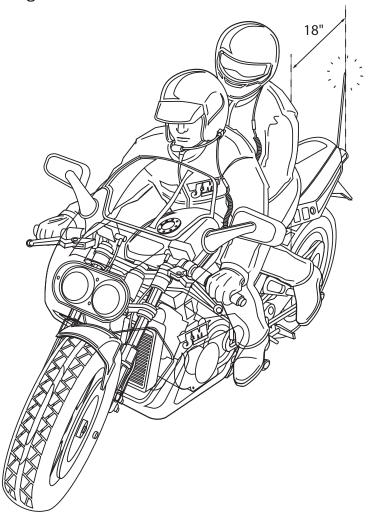
The JMCB-2003 receives CB, National Weather Service and international marine weather broadcast frequencies as listed below:

CB Channels	1-40	26.965 to 27.405 MHz
Weather Channels	01WX 02WX 03WX 04WX 05WX 06WX 07WX	162.550 MHz 162.400 MHZ 162.475 MHz 162.425 MHz 162.450 MHz 162.500 MHz 162.525 MHz
Int'l Marine	08WX 09WX 00WX	161.650 MHz 161.775 MHz 163.275 MHz

8) Function indication "beep" can be turned on or off by depressing the MODE button two (2) times. The LCD display will show the word ON or OFF. To turn the beep on or off, switch between the CHL UP and CHL DN buttons.

8. Antenna Information

The maximum allowable CB transmitting power is limited by FCC regulations. The antenna is a major component in the strength of the CB radio's transmission signal and its reception range.



A minimum distance of 18" between the CB antenna and the operator or passenger of the motorcycle should be maintained.

9. CB Channel Frequency Chart

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

WARNING: Do not try to make any internal adjustments.

Any internal adjustments must be made only by qualified technical personnel. Internal adjustments and/or modifications can lead to illegal operation as defined by FCC Rules and REgulations, Part 95. Illegal operation can result in serious consequences.

10. Specifications

CB Channels 40

CB Frequency Range 26.965 to 27.405 MHz

Weather Channels 10

Weather Frequency Range

Receive Frequencies 162.550 MHz - 163.275 MHz

CB/Weather frequency control Phase locked loop (PLL) synthesizer

Operation temperature range -4°F to +122°F

Channel display Liquid crystal display (LCD)

Power source 13.2V DC

Dimensions 6.5" x 3" x 1.75"

(165.1 mm x 76.2 mm x 44.5 mm)

Weight .8 lb

Receiver AM dual conversion superheterodyne Transmitter 4 watts (maximum FCC allowable)

Noise and Interference

Motorcycle audio systems are by their very nature noisy. While we do not guarantee this system to be completely free from electrical noises and interference, we have taken many steps to achieve that goal: the power supply system is well filtered and the cables associated with the unit are shielded.

Most modern day motorcycles have resistor-type spark plugs installed by the factory. It may be necessary to insure that resistor-type spark plugs are installed on your motorcycle.

Two Year Warranty

J&M Corporation warrants each new product it manufactures to be free from defective materials and workmanship and agrees to remedy any such defect or replace the unit (at our option), provided the unit is delivered to us, intact, for our examination, with all transportation charges prepaid to our factory, within two (2) years from the date of the sale to the original purchaser. The provisions of the warranty shall not apply to any unit which has been subject to misuse, neglect, incorrect mechanical or electrical installation, unauthorized modifications, accident, nor to units which have been repaired or altered outside of our factory.

Thank you for the confidence you have shown by purchasing one of J&M's innovative products. If you have any questions during installation, or require further assistance, you may call us at 1-800-358-0881 from 8:00 a.m. to 5:00 p.m. Mountain Standard Time, Monday through Friday.



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