



# JL AUDIO MBT-CRX V3 Weatherproof Bluetooth Controller or Receiver User Manual

[Home](#) » [JL AUDIO](#) » JL AUDIO MBT-CRX V3 Weatherproof Bluetooth Controller or Receiver User Manual 

## Contents

- [1 JL AUDIO MBT-CRX V3 Weatherproof Bluetooth Controller or Receiver](#)
- [2 Product Information](#)
- [3 Installation Applications](#)
- [4 Safety Considerations](#)
- [5 Mounting & Installation](#)
  - [5.1 Wiring Diagram](#)
- [6 Product Usage](#)
  - [6.1 Pairing Your Device](#)
  - [6.2 Controlling Audio Playback](#)
  - [6.3 Pairing Considerations](#)
- [7 Specification](#)
- [8 IP67 Water Resistance Rating](#)
- [9 Warranty](#)
- [10 FCC compliance statement](#)
- [11 Documents / Resources](#)
  - [11.1 References](#)
- [12 Related Posts](#)



**JL AUDIO MBT-CRX V3 Weatherproof Bluetooth Controller or Receiver**



## Product Information

The MBT-CRXv3 is a Bluetooth controller/receiver that is designed for operation in 12-volt, negative-ground electrical systems. It has an IP67 water resistance rating and can withstand immersion in water up to 1 meter (3.28 ft) deep for up to 30 minutes when properly installed. It has a maximum connection range of up to 35 ft (11 m) in line-of-sight installations. The product includes a threaded fastening collar, thin and thick round gaskets, a square adaptor plate and gasket, stainless steel mounting screws, and a user manual.

## Product Description

The MBT-CRXv3 is a water-resistant (IP67 rated) Bluetooth® receiver designed for marine and power sports applications. It can be used as a stand-alone Bluetooth® source unit/receiver, connecting directly to an amplifier. It can also be used as an add-on Bluetooth® controller/receiver, connected to an existing head unit's line-level/auxiliary inputs. The MBT-CRXv3 is not designed to drive loudspeakers directly.

## Installation Applications

The MBT-CRXv3 is suitable for installation on flat surfaces up to 1.75 inches (4.5 cm) thick using its threaded-collar mounting system. For installations in panels exceeding 1.75 inches (4.5 cm) thick or where rear access is limited, a front-mounted adaptor plate is included. The product is not certified or approved for use in aircraft.

## Safety Considerations

The MBT-CRXv3 should only be used in 12-volt, negative-ground electrical systems. Using it in systems with positive ground and/or voltages other than 12 volts may result in damage to the product and void the warranty.

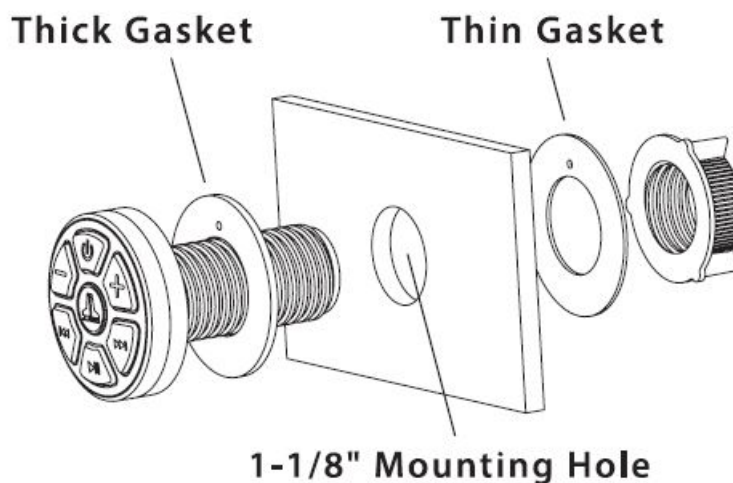
- Whenever possible, mount this product in a dry, well-ventilated location that does not interfere with other factory-installed electronic devices. If a dry environment is not available, a location that is not exposed to heavy splashing may be used.
- While this product is designed to be water-resistant, it should never be submerged under water for prolonged periods or subjected to high-pressure water spray.
- Do not mount in an engine compartment or any areas of extreme heat.
- Ensure this product is securely installed so that it does not come loose in the event of a collision/sudden jolt or as a result of repeated vibrations during normal operation.

- Check before drilling to make sure that you will not be drilling into an exterior panel/hull, fuel tank, gas/brake line, wiring harness, or another vital system.
- Do not run system wiring outside or underneath the vehicle/vessel. This is an extremely dangerous practice, which can result in severe damage/injury.
- Protect all system wires from sharp edges (metal, fiberglass, etc.) by carefully routing them, tying them down, and using grommets and loom where appropriate.
- Secure all wiring as needed, using cable ties or wire clamps to protect them from moving parts and sharp edges.
- Do not replace the power wire fuse with one of a different value. Never bypass the fuse.

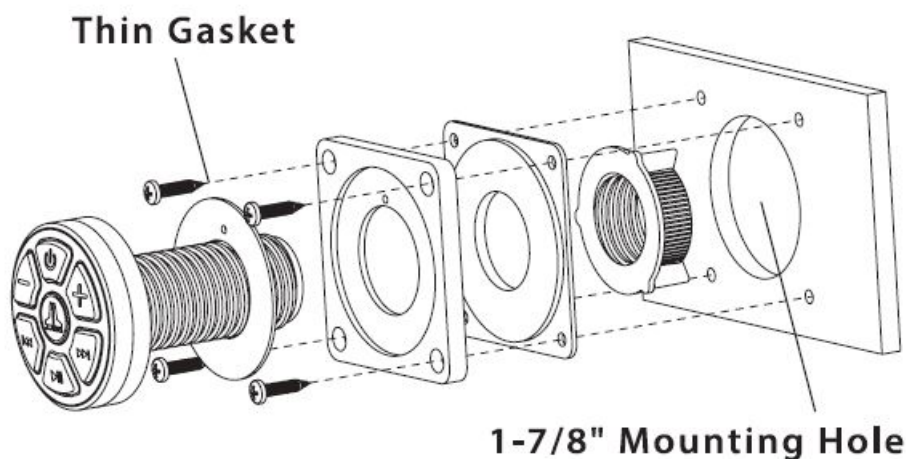
## Mounting & Installation

The design of the MBT-CRXv3 requires just a single hole for installation. Its easy-to-use threaded-collar mounting system can accommodate installations in flat surfaces up to 1.75 inches (4.5 cm) thick. A front-mounted adaptor plate is included for installations in panels exceeding 1.75 inches (4.5 cm) thick, or where rear access is limited or not possible. Refer to the diagrams below for your specific mounting application.

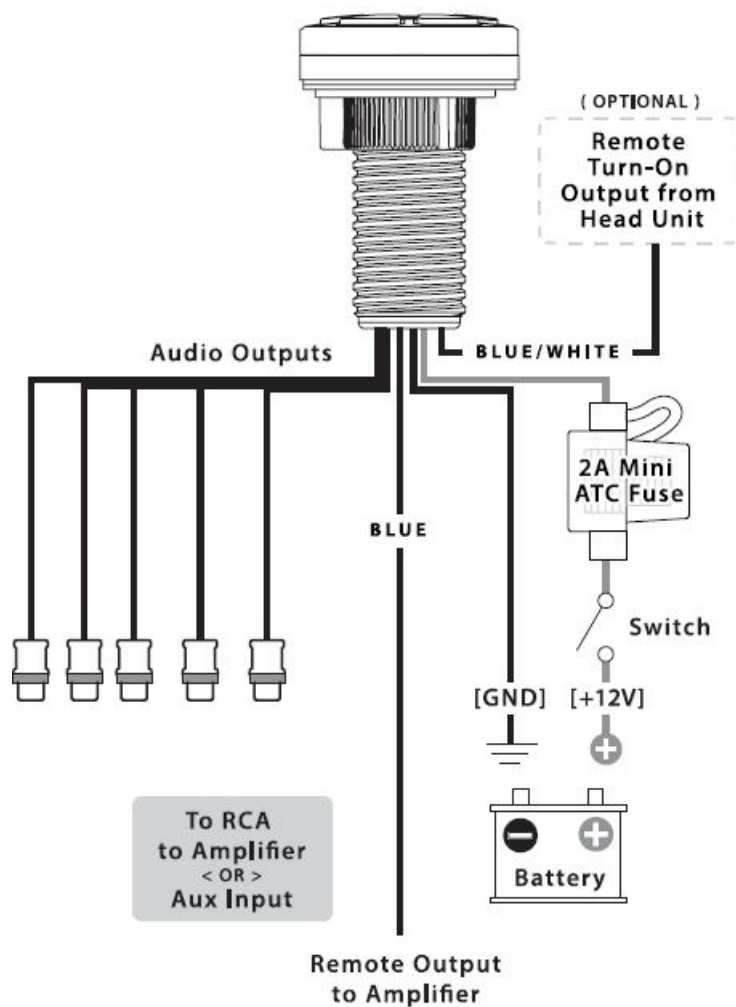
### Standard Collar-Mount Installation



### Front-Mount Adaptor Installation



## Wiring Diagram



#### Note:

If the optional connection is made to a head unit's remote turn-on output, the head unit will turn the MBT-CRXv3 on/off and the MBT-CRXv3 power button will no longer operate.

## Product Usage

### Pairing Your Device

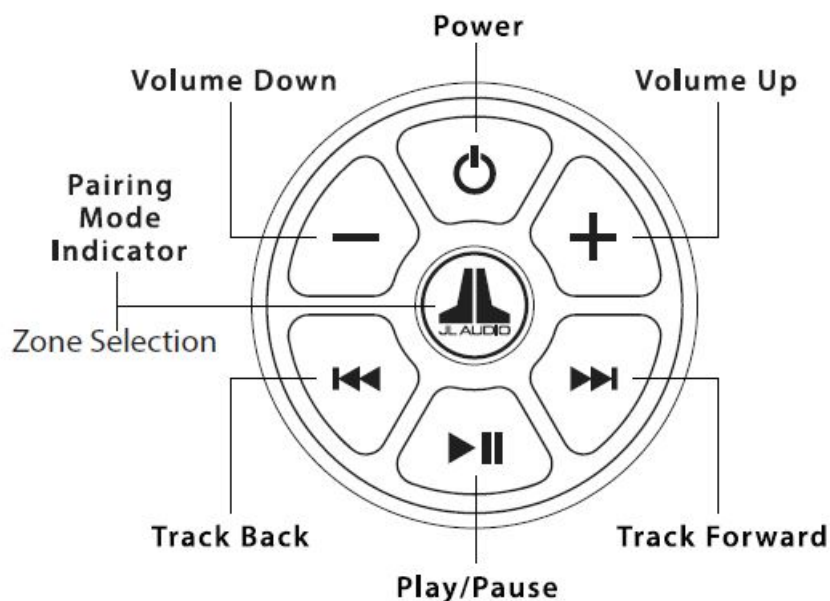
1. Turn on the audio system and the MBT-CRXv3.
2. Turn on Bluetooth on your audio streaming device and search for available devices.
3. Select "MBT-CRXv3" from the list of available devices to initiate pairing.
4. When successfully connected, the JL Audio logo on the MBT-CRXv3 will stop blinking and remain lit. A single beep will be heard through the connected audio system.
5. Ensure your streaming device has Bluetooth® enabled and that the MBT-CRXv3 is on (backlit in blue). The JL Audio logo on the MBT-CRXv3 will blink to indicate it is in pairing mode.
6. Within your streaming device's Bluetooth® setup menu, select "MBT-CRXv3" from the list of pairable devices.
7. When successfully connected, the JL Audio logo on the MBT-CRXv3 will stop blinking and remain lit. A single beep will be heard through the connected audio system.

Note that multiple devices can be paired to the MBT-CRXv3, but only one streaming device can connect at a time.

### Controlling Audio Playback

Once connected, use the controls on the MBT-CRXv3 to adjust volume up/down, track selection, and play/pause. Pressing the JL Audio logo will change the zone (and LED color) from All Zones (default)(White) to Zone 1 (Blue), Zone 2 (Red), or Subwoofer (Green).

### Control Legend



### Current Draw

The MBT-CRXv3 has a current draw of 48 mA (at idle) and 64 mA (at full output).

### Remote Turn-on Output Capacity

The remote turn-on output capacity of the MBT-CRXv3 is 350 mA (max).

### Fuse Rating

The MBT-CRXv3 has a 2A Mini ATC fuse rating.

### Pairing Considerations

The MBT-CRXv3 will remember the last device that was connected to it and reconnect with it automatically. If that streaming device is not active, then other paired streaming devices can connect manually, or new streaming devices can be paired. When a connected streaming device is out of range for more than one minute, the MBT-CRXv3 will automatically disconnect this streaming device and return to pairing mode (the JL Audio logo will blink). When that same device comes back into range, it should be reconnected to the MBT-CRXv3 manually.

Multiple devices can be paired to the MBT-CRXv3, but only one streaming device can connect at one time. The MBT-CRXv3 will remember the last device that was connected to it and reconnect with it automatically. If that streaming device is not active, then other paired streaming devices can connect manually, or new streaming devices can be paired.

### Specification

Bluetooth Profile	A2DP (High-Quality, Stereo Audio)
Bluetooth® Core Specification	Version 5.0 with Qualcomm® aptX™ audio
Frequency Response	20 Hz – 18 kHz (±1dB)
Outputs 2	Stereo Pair, +1 Mono Low-Level RCA Plugs
Output Voltage	2V RMS
Signal-to-Noise Ratio	93 dB (20 Hz – 20 kHz)
Input Operating Voltage	8 – 28 VDC
Current Draw	48 mA (at idle) 64 mA (at full output)
Remote Turn-on Output Capacity	350 mA (max)
Fuse Rating	2A Mini ATC
Connection Range*	Up to 35 ft / 11 m
*Maximum range is achieved in line-of-sight installations, actual range will vary based on installation specifics.	

## IP67 Water Resistance Rating

The MBT-CRXv3 has an IP67 water resistance rating and is tested to withstand immersion in water up to 1 meter (3.28 ft) deep for up to 30 minutes when properly installed. Note that while designed to be water-resistant, this product should never be submerged under water for prolonged periods or subjected to activity that creates pressure on it that could compromise its water-resistant integrity.

This product has been tested to withstand immersion in water, up to 1 meter (3.28 ft.) deep, for up to 30 minutes (when prop-erly installed). Note – while designed to be water resistant, this product should never be submerged under water for prolonged periods or subjected to activity that creates pressure on it that exceeds its depth rating.

## Warranty

### 2-Year Limited Warranty (U.S.A.)

Visit [www.jlaudio.com](http://www.jlaudio.com) for warranty details.

### For Service Information in the U.S.A. please call JL Audio

customer service: (954) 443-1100 during normal business hours (Eastern Time) • JL Audio, Inc • 10369 N Commerce Parkway, Miramar, FL 33025

### International Warranties:

Products purchased outside the United States of America are covered only by that country's distributor and not by JL Audio, Inc.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by JL Audio, Inc. is under license. Qualcomm aptX is a product of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. aptX is a trademark of Qualcomm Technologies International, Ltd., registered in the United States

and other countries and any use of such marks by JL Audio, Inc. is under license.

## **FCC compliance statement**

### **Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Product Model: MBT-CRXv3 PMN: Bluetooth Audio Receiver

### **ISED statement**

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:


1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

This equipment complies with Canada's radiation exposure limits set forth for an uncontrolled environment. The device has been evaluated to meet the general RF exposure requirements. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

[www.jlaudio.com](http://www.jlaudio.com).

## Documents / Resources

	<a href="#">JL AUDIO MBT-CRX V3 Weatherproof Bluetooth Controller or Receiver</a> [pdf] User Manual MBT-CRX V3, Weatherproof Bluetooth Controller or Receiver, MBT-CRX V3 Weatherproof Bluetooth Controller or Receiver, Bluetooth Controller or Receiver, Controller or Receiver, Controller, Receiver
-----------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## References

- [JL Audio: Car Stereo, Speakers, Subs, Amps, Home Theater](#)