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## FreedConn TCOM VB helmet intercom

# FreedConn TCOM-VB Motorcycle Bluetooth Headset User Manual

Model: TCOM VB helmet intercom | Brand: FreedConn

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## 1. Introduction

The FreedConn TCOM-VB Motorcycle Bluetooth Headset is designed to provide convenient and safe communication for motorcycle riders. This system supports real-time intercom between two people, with pairing capabilities for up to three riders. It offers a maximum intercom distance of 800 meters and supports speeds up to 120 km/h. Key features include audio multitasking, hands-free calling, FM radio, GPS voice prompts, and music sharing. The headset is compatible with various helmet types thanks to its 2-in-1 microphone design.

## 2. Safety Information

Adhere to local regulations and standards for wireless devices. Always prioritize road safety. Do not operate the device in a manner that distracts from riding. Ensure proper installation to prevent interference with helmet safety features.

## 3. What's in the Box?

The FreedConn TCOM-VB package includes the following components:

- Bluetooth Receiver (x2)
- USB Cable (x2)
- Screw Driver (x1)

- Felted Adhesive Earphone Pads (x8)
- Ear 40MM Speaker & 2 in 1 Mic (1PCS Boom Mic & 1PCS Button Mic) (x2)
- Headset Clip (x4)
- User Manual (x1)

*Note: Adapter is not included (it can be charged by any phone adapter).*

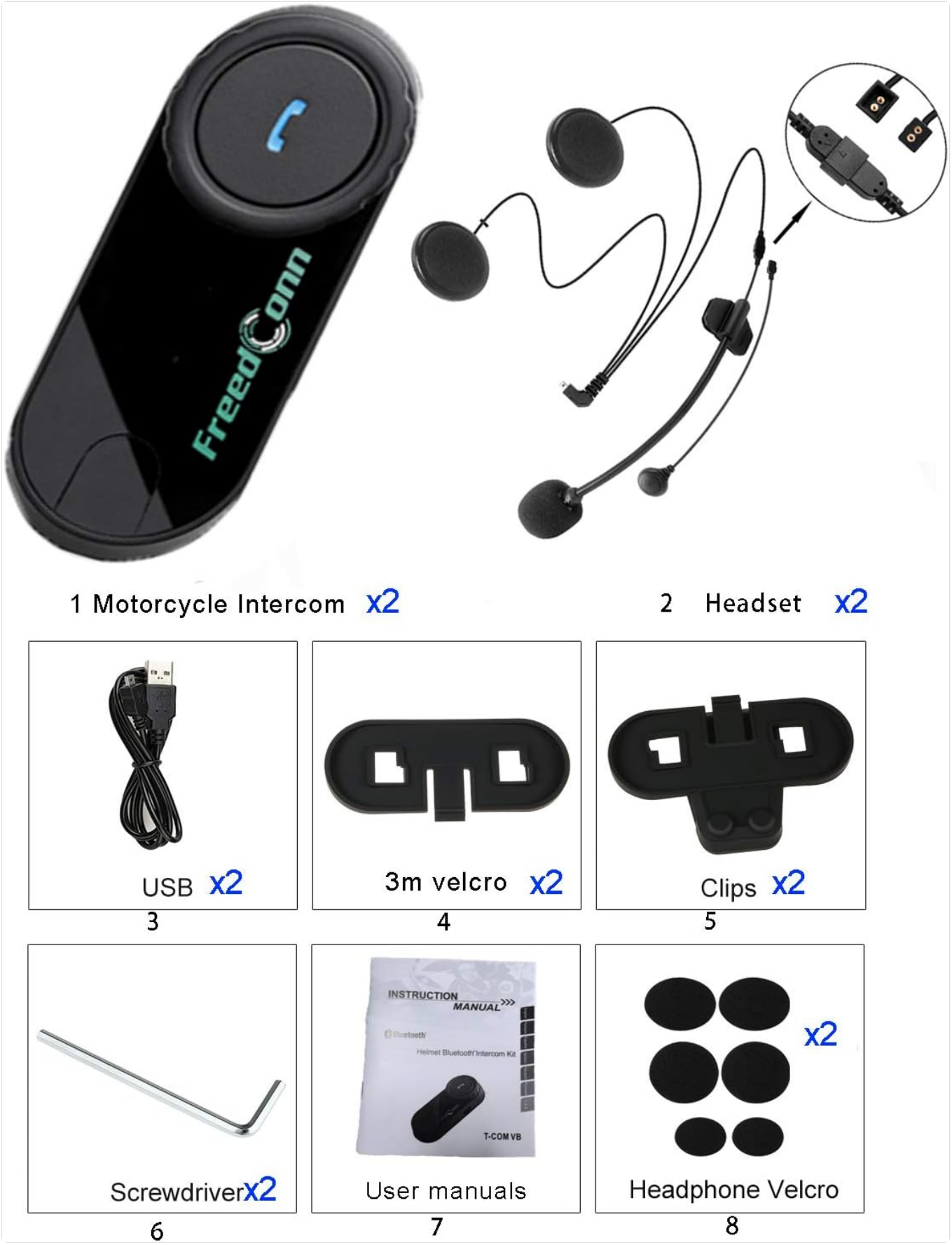


Figure 3.1: Package Contents of the FreedConn TCOM-VB

This image displays all the items included in the dual pack. You can see the two main Bluetooth receiver units, two sets of speakers with integrated microphones (one boom mic and one button mic), USB charging cables, mounting clips, adhesive pads, a screwdriver, and the user manual.

## 4. Product Overview

The FreedConn TCOM-VB features a compact design with intuitive controls for easy operation even with gloves on. It includes a multi-function button and a jog wheel for various functions.



Figure 4.1: Product Structure and Components

This diagram highlights the key parts of the TCOM-VB unit: the LCD Indicator Light, Jog Wheel, Multi-function Button, Power on/off and Intercom Button, Noise Canceling Microphone (both boom and button types), Stereo Ear Speakers, and the Charger and Headset Socket.

### 4.1 Microphone Types

The TCOM-VB comes with two types of microphones to suit different helmet styles:

- **Hard Mic (Boom Mic):** Recommended for 3/4 helmet or half helmet.
- **Soft Mic (Button Mic):** Recommended for full-face helmets.




Figure 4.2: Universal Microphone Compatibility

This image illustrates the two microphone options and their suitability for different helmet types, ensuring clear communication regardless of your helmet choice.

## 5. Setup

### 5.1 Installation

The headset can be installed using either a clip or adhesive tape, depending on your helmet type and preference. Ensure the unit is securely attached and the speakers are positioned correctly inside the helmet for optimal audio quality.




Figure 5.1: Helmet Installation Examples

This image demonstrates how the TCOM-VB unit can be mounted on various helmets, including full-face and open-face designs, ensuring a secure fit for the main unit and proper placement of the speakers and microphone.

## 5.2 Charging the Device

The TCOM-VB is equipped with a rechargeable Lithium Polymer battery. Connect the provided USB cable to the charging port on the unit and to a standard USB power adapter (not included). A full charge takes approximately 2.5 hours. The device supports up to 10 hours of phone talk time, 7 hours of intercom time, and 300 hours of standby time.




Figure 5.2: Waterproof Design and Battery Indicator

This image highlights the waterproof design of the headset and visually represents its battery capacity, emphasizing its suitability for various weather conditions and extended use.

## 5.3 Pairing Instructions

The TCOM-VB supports pairing with other TCOM-VB units and can also be actively paired with other brands of intercoms (compatibility may vary).

### 5.3.1 Pairing Two Headsets (A & B)

1. Ensure both units (A and B) are powered off.
2. Press and hold the power on button on both units for about 3 to 4 seconds until the indicator flashes between red and blue. This indicates they are ready for pairing.
3. Press the on/off button of either device (A or B) to initiate the search for the other unit.
4. Once paired, the red-and-blue flash will turn into a blue flash. The devices are now successfully paired and ready for conversation.

▶ **Watch video online**
TCOM VB Helmet Bluetooth headset 2-way intercom 3Riders pair

Video 5.3.1: How to Pair Between Two Bluetooth Headsets

This video demonstrates the step-by-step process of pairing two FreedConn TCOM-VB units for two-way intercom communication. It shows the indicator light behavior during the pairing process.

### 5.3.2 Pairing Three Headsets (A, B, & C)

1. First, pair unit A with unit B and then turn both off.
2. Next, pair unit A with unit C and then turn both off.
3. Third, turn on units B and C and pair them.
4. Now that B and C are in Bluetooth intercom status, turn unit A on. *(Note: While turning A on, do not press to have red-and-blue flash, or the last pairing history will be deleted.)*

▶ **Watch video online**
TCOM VB Helmet Bluetooth headset 2-way intercom 3Riders pair

Video 5.3.2: How to Pair Between Three Bluetooth Headsets

This video provides instructions for setting up a three-way intercom system with FreedConn TCOM-VB units, detailing the sequence of pairing to establish a group conversation.

### 5.3.3 Pairing with Phone/GPS/MP3

The TCOM-VB can connect to your smartphone, MP3 player, or GPS device via Bluetooth for hands-free calls, music, and

navigation prompts.

1. Ensure the TCOM-VB unit is powered off.
2. Press and hold the power on button until the indicator flashes red and blue, indicating pairing mode.
3. On your phone or device, search for Bluetooth devices and select "FreedConn TCOM-VB" to connect.
4. Once connected, the indicator light will turn blue.




Figure 5.3: Bluetooth Connectivity with External Devices

This image illustrates the headset's ability to connect wirelessly to various Bluetooth-enabled devices such as smartphones, MP3 players, and GPS units, enabling audio streaming and hands-free functionality.




Figure 5.4: Universal Pairing Capabilities

This graphic highlights the TCOM-VB's universal pairing feature, showing its compatibility with other FreedConn models (like TCOM-SC) and even some other brands of intercoms, alongside standard Bluetooth devices.

For pairing with older versions of TCOM-VB (version 3.0) or other brands, specific steps may apply. The new version (5.0) comes with voice prompts. When pairing a new version with an old version, press the power button on the new version to search and connect. For detailed instructions on distinguishing between new and old versions and specific pairing steps, refer to the official user manual PDF or the following video:

▶ **Watch video online**

New version of TCOM VB 3 minutes detailed explanation

Video 5.3.3: New Version of TCOM VB Detailed Explanation

This video provides a detailed explanation of the new TCOM-VB version, including how to distinguish it from older versions and specific pairing procedures for different scenarios.

▶ **Watch video online**

Video 5.3.4: TCOM VB 3.0 vs 5.0 Pairing Guide (Preview)

This short preview video demonstrates the pairing process between the TCOM VB 3.0 and 5.0 versions, highlighting the differences in voice prompts and connection methods.

# 6. Operating Instructions

## 6.1 Basic Controls

The TCOM-VB features a simple "one-button" control system and a jog wheel for managing various functions:

- **Multi-function Button:** Used for power on/off, intercom activation, call management, and voice commands (Siri).
- **Jog Wheel:** Controls volume, navigates music tracks, and tunes FM radio stations.

## 6.2 Intercom Usage

The intercom function allows real-time communication with other paired headsets.

- To start an intercom conversation: Ensure units are paired (as per Section 5.3.1 or 5.3.2). Press the Multi-function Button once to initiate intercom.
- To end an intercom conversation: Press the Multi-function Button once.
- Switching between intercoms in a 3-person setup:
    - If A and C are talking, and A wants to talk to B: A must first press the on/off button on C to disconnect it with B, and then press the "on/off" button on A to enter the intercom mode with C.

- If A and B are talking, and A wants to talk to C: A must first press the on/off button on A to disconnect it with B, and then double press the "on/off" button on A to enter the intercom mode with C.
- If B and C are talking, and B wants to talk to A: B must first press the on/off button on B to disconnect it with C, and then double press the "on/off" button on B to enter the intercom mode with A.




Figure 6.1: Two Riders Long Distance Intercom

This image visually represents the two-way intercom capability between riders, emphasizing the effective communication range of 800 meters.

### 6.3 Music, FM Radio, and GPS

The headset supports audio multitasking, allowing seamless switching between different audio sources.

- **Music Playback:** Connect to your MP3 player or smartphone via Bluetooth. Use the jog wheel for AVRCP controls (forward, rewind, play, pause). Music sharing is supported between riders and passengers.
- **FM Radio:** Tune into FM radio stations for music, news, and traffic information.
- **GPS Voice Prompts:** Receive clear voice alerts from your GPS device when connected via Bluetooth.

### 6.4 Call Management

Manage phone calls hands-free while riding for increased safety.

- **Answering Calls:** The device supports automatic answering of calls. This feature can be turned off if preferred.
- **Voice Dialing:** Activate Siri voice commands by pressing the multi-function button.
- **Rejecting/Ending Calls:** Use the multi-function button to reject or end calls.

## 7. Maintenance

To ensure the longevity and optimal performance of your FreedConn TCOM-VB headset, follow these maintenance guidelines:

- **Cleaning:** Wipe the main unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the headset in a cool, dry place when not in use. Avoid extreme temperatures.

- **Battery Care:** Charge the battery regularly, even if the device is not used frequently, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Water Resistance:** While the device is waterproof, avoid prolonged submersion in water. Ensure the charging port cover is securely closed when not charging.

## 8. Troubleshooting

If you encounter issues with your FreedConn TCOM-VB headset, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Device does not power on | Low battery; Power button not held long enough | Charge the device fully; Press and hold the power button for 3-4 seconds until indicator lights appear. |
| Cannot pair with another device | Incorrect pairing procedure; Devices too far apart; Interference | Ensure both devices are in pairing mode (red and blue flashing); Follow pairing steps carefully (Section 5.3); Move devices closer; Try pairing in a different location. |
| Intercom disconnects frequently | Out of range; Obstructions; Low battery | Stay within the 800m range; Ensure clear line of sight; Recharge devices. |
| Poor audio quality/noise | Microphone/speaker placement; Wind noise; DSP/CVC not active | Adjust microphone closer to mouth; Ensure speakers are aligned with ears; Check for proper helmet fit; DSP echo cancellation and CVC noise suppression should be active automatically. |
| Cannot connect to phone/GPS | Device not in phone pairing mode; Bluetooth on phone is off; Previous connection issues | Ensure headset is in phone pairing mode (Section 5.3.3); Turn phone's Bluetooth off and on; Forget previous pairings on phone and re-pair. |

For more detailed troubleshooting, please refer to the official Troubleshooting Guide (PDF).

## 9. Specifications

| Feature | Detail |
|---|---|
| Brand | FreedConn |
| Model | TCOM VB helmet intercom |
| Connectivity Technology | Wireless (Bluetooth 5.0) |
| Intercom Range | Up to 800 meters (2625 feet) for 2 riders |
| Max Intercom Riders | 3 (2 simultaneous conversations) |
| Max Speed | 80 km/h ~ 100 km/h (approx. 50-62 mph) |
| Battery Type | Lithium Polymer (400mAh) |
| Talk Time | Up to 10 hours (phone) / 7 hours (intercom) |
| Standby Time | Up to 300 hours |
| Charging Time | About 2.5 hours |

| Feature | Detail |
|---|---|
| Special Features | Hands-free calling, MP3, FM Radio, Siri voice commands, GPS Voice Prompt, Music Sharing, DSP echo cancellation, CVC noise suppression, 2-in-1 Mic |
| Water Resistance | Yes (Waterproof) |
| Safety Rating | FCC, CE, ROHS |
| Item Weight | 1.26 pounds (approx. 0.57 kg) |
| Package Dimensions | 9.33 x 6.73 x 2.05 inches |

## 10. Warranty and Support

For any quality or usage issues with your FreedConn TCOM-VB headset, please contact the seller directly. You can typically find contact information by clicking on the seller's name (e.g., "Zongreat-US") on the product page and then selecting "ASK A QUESTION."
Official documentation for this product includes:

- User Manual (PDF)
- Troubleshooting Guide (PDF)

For additional support and product information, visit the official FreedConn Store on Amazon.

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