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## FreedConn T-COMVB-800M

# FreedConn TCOM VB Bluetooth Motorcycle Intercom User Manual

Model: T-COMVB-800M | Brand: FreedConn

## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your FreedConn TCOM VB Bluetooth Motorcycle Intercom. Please read this manual thoroughly before use to ensure proper functionality and safety.

## 2. KEY FEATURES

- Bluetooth V5.0 for stable connectivity.
- Intercom communication for 2-3 riders with an 800m range.
- Universal pairing with most Bluetooth headsets.
- Hands-free calling for mobile phones.
- Stereo music playback and music sharing with a passenger.
- Built-in FM radio.
- CVC noise reduction technology for clear audio.
- IP65 waterproof rating.
- LCD screen for easy information display.
- Long battery life: up to 10 hours talk time, 7 hours intercom, 300 hours standby.



Image: Overview of FreedConn TCOM VB Intercom key features.

### 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- TCOM-VB Main Unit (x2 for this package)
- Boom Microphone / Button Microphone (x2 sets)
- Speaker Pads (x12)
- Clip Bracket (x2)
- 3M Adhesive Mount (x2)
- Allen Key (x2)
- USB Data Cable (x2)
- User Manual (x1)



Image: Contents of the FreedConn TCOM VB package.

## 4. SETUP AND INSTALLATION

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### 4.1 Mounting the Intercom Unit

The TCOM VB unit can be mounted using either the clip bracket or the adhesive mount.

1. **Choose Location:** Select a suitable flat surface on the left side of your helmet.
2. **Clip Bracket Installation:**
  - Loosen the screws on the clip bracket.
  - Slide the bracket between the helmet shell and the inner padding.
  - Tighten the screws to secure the bracket.
3. **Adhesive Mount Installation:**
  - Clean the helmet surface thoroughly.
  - Peel off the protective film from the 3M adhesive mount.
  - Press the mount firmly onto the helmet surface for at least 30 seconds. Allow 24 hours for the adhesive to cure before use.
4. **Attach Main Unit:** Slide the TCOM VB main unit onto the installed bracket until it clicks into place.

### 4.2 Speaker and Microphone Installation

Install the speakers and microphone inside your helmet.

1. **Speaker Placement:** Attach the speakers to the inside of the helmet, aligning them with your ears. Use the provided speaker pads for comfort and optimal sound.
2. **Microphone Selection:** Choose between the boom microphone (for open-face helmets) or the button microphone (for full-face helmets).
3. **Microphone Placement:** Position the microphone close to your mouth for clear voice transmission.
4. **Connect Cables:** Plug the speaker and microphone cables into the corresponding ports on the TCOM VB main unit.

# HARD & SOFT CABLE MICROPHONE INTO ONE EARPHONE



Image: Hard and soft cable microphone options for helmet installation.



Image: Step-by-step installation guide for the intercom unit.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

- **Power On:** Press and hold the Power button for approximately 3 seconds until the blue indicator light flashes.
- **Power Off:** Press and hold the Power button for approximately 3 seconds until the red indicator light flashes and the unit powers down.

### 5.2 Bluetooth Pairing (Phone/GPS)

To connect your TCOM VB to a mobile phone or GPS device:

1. Ensure the TCOM VB unit is powered off.
2. Press and hold the Power button for approximately 5-7 seconds until the red and blue indicator lights flash alternately. This indicates pairing mode.
3. On your phone or GPS, enable Bluetooth and search for new devices.
4. Select "FreedConn TCOM VB" from the list of available devices.
5. If prompted, enter the PIN "0000".
6. Once paired, the blue indicator light will flash slowly.

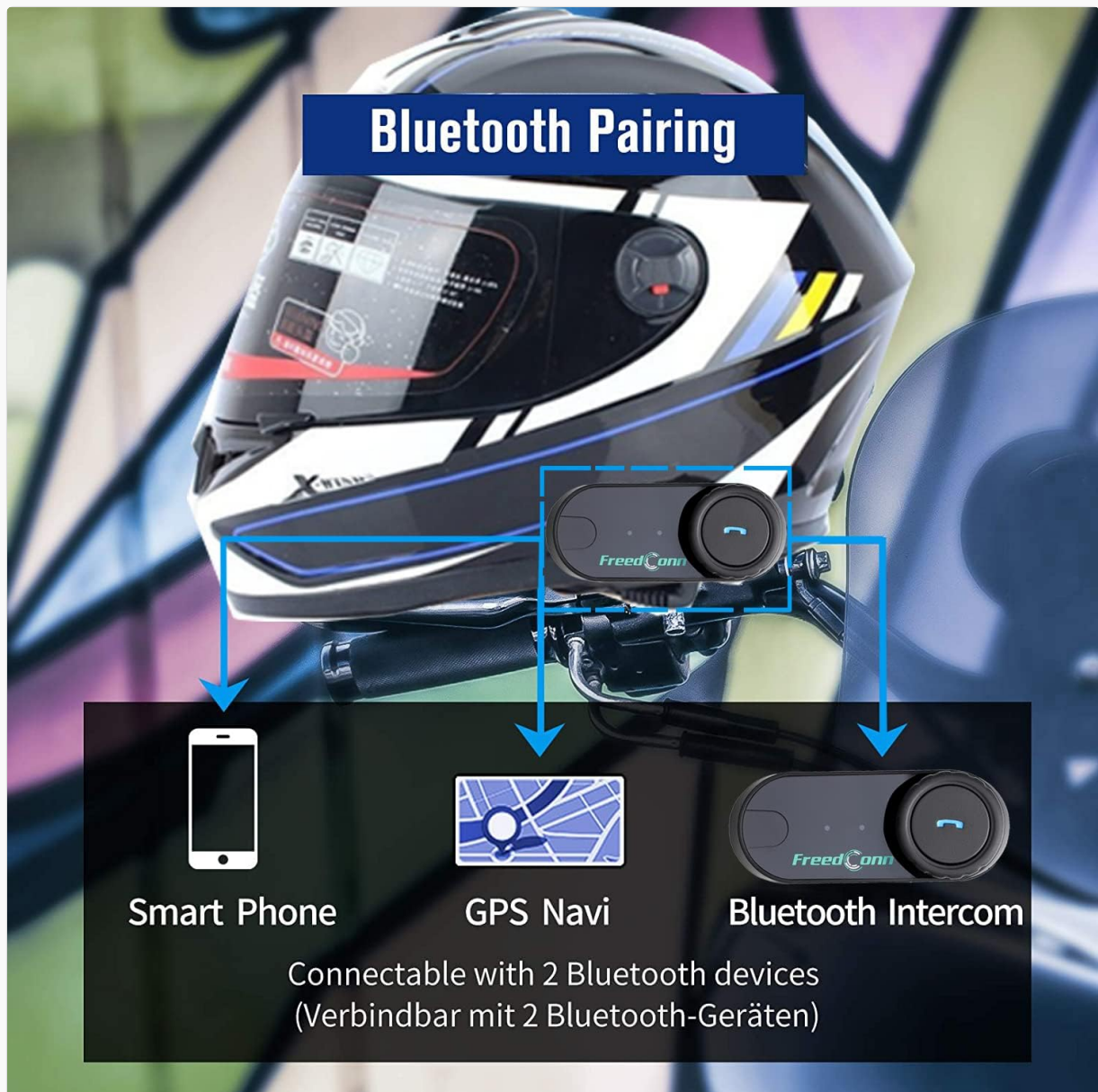


Image: Bluetooth pairing with smartphone and GPS.

### 5.3 Intercom Pairing and Communication

The TCOM VB supports intercom communication for up to 3 riders, with 2 riders communicating simultaneously.

#### 1. Pairing Two Units (A & B):

- Ensure both units A and B are powered off.
- Press and hold the Power button on both units A and B simultaneously for 5-7 seconds until

they enter pairing mode (red and blue lights flash alternately).

- Press the Power button on either unit A or B once. The units will search and pair with each other. Once paired, the blue light will flash slowly on both.

## 2. Pairing Three Units (A, B, & C):

- First, pair units A and B as described above. Turn off both A and B after successful pairing.
- Next, pair units B and C. Turn off both B and C after successful pairing.
- To initiate a 3-way intercom: Power on all three units. Press the Power button on unit C once to connect to B. Then, press the Power button on unit B once to connect to A. All three units should now be connected.

- ## 3. Initiate Intercom Call:
- After pairing, a short press of the Power button will initiate or end an intercom call.

# 3 riders pairing, 2 riders intercom at same time



Image: 3 riders pairing, 2 riders intercom at the same time.

# Universal Pairing



Image: Universal pairing feature.

Your browser does not support the video tag.

Video: This video demonstrates the pairing process for three T-COMSC intercom units. The pairing steps are generally similar for TCOM VB models. First, pair two devices (A and B), then turn them off. Next, pair device B with device C. Finally, power on all three and initiate connections from C to B, then B to A for a three-way intercom.

## 5.4 Phone Functions

- **Answer Call:** Short press the Phone button.
- **End Call:** Short press the Phone button.
- **Reject Call:** Press and hold the Phone button for 2 seconds.
- **Redial Last Number:** Double-press the Phone button.
- **Voice Assistant (Siri/S-Voice):** Short press the Voice Assistant button (if available) or a specific button combination as per your device's manual.

## 5.5 Music Playback

- **Play/Pause:** Short press the Play/Pause button.
- **Next Track:** Short press the "Next" button or rotate the multi-function knob clockwise.
- **Previous Track:** Short press the "Previous" button or rotate the multi-function knob counter-clockwise.
- **Music Sharing:** While playing music, activate the music sharing function (refer to specific button

combination in the full manual) to share audio with a paired intercom unit.



Image: Music sharing with a partner.

## 5.6 FM Radio

- **Turn On/Off FM Radio:** Press and hold the FM button for 2 seconds.
- **Scan Stations:** Short press the "Next" or "Previous" button to scan for available FM stations.

# Built-in FM Radio



Image: Built-in FM Radio feature.

## 5.7 Volume Control

Adjust the volume using the multi-function knob or dedicated volume buttons (if present).

- **Increase Volume:** Rotate the multi-function knob clockwise or press the Volume Up button.
- **Decrease Volume:** Rotate the multi-function knob counter-clockwise or press the Volume Down button.

## 6. MAINTENANCE

- **Cleaning:** Wipe the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Water Resistance:** The unit is IP65 waterproof, meaning it is protected against low-pressure water jets from any direction. It is not designed for submersion. Ensure the USB port cover is securely closed when not charging.
- **Charging:** Charge the unit using the provided USB cable. A full charge takes approximately 2.5 hours. The indicator light will change to indicate charging status (e.g., red during charging, blue when fully charged).
- **Storage:** Store the unit in a cool, dry place when not in use for extended periods.

# Enjoy long trip with your companion

Easy to operate even with gloves  
IPX5 Waterproof



## DSP ECHO CANCELLATION



## SUPER LONG STANDBY TIME



6 Hours Non-Stop Music



8-10 hours Talking



300 Hours Standby



2.5 Hours Charge

Image: Battery life and waterproof features.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Low battery	Charge the unit for 2.5 hours.
Cannot pair with phone/GPS	Unit not in pairing mode; Bluetooth disabled on device	Ensure unit is in pairing mode (red/blue flashing). Enable Bluetooth on your device.
Intercom not connecting	Units not paired correctly; out of range	Repeat intercom pairing steps. Ensure units are within 800m range.
Low audio volume or no sound from speakers	Speakers not positioned correctly; volume too low; cable loose	Adjust speaker position closer to ears. Increase volume. Ensure speaker cable is fully inserted.

Problem	Possible Cause	Solution
Poor microphone quality / background noise	Microphone not positioned correctly; wind noise	Position microphone closer to mouth. Ensure CVC noise reduction is active. Consider using a different microphone type if applicable.

*Note:* If your two speakers or one side speaker are not working, ensure the headset cable is completely inserted into the interface and that the speaker is inserted into the correct port. If the volume is low, adjust the speaker placement as close to your ears as possible.

## 8. SPECIFICATIONS

<b>Model:</b>	T-COMVB-800M
<b>Bluetooth Version:</b>	5.0
<b>Intercom Range:</b>	Up to 800 meters (between 2 riders)
<b>Max Riders:</b>	3 (2 simultaneous communication)
<b>Battery Capacity:</b>	400 mAh
<b>Charging Time:</b>	Approx. 2.5 hours
<b>Talk Time:</b>	Up to 10 hours
<b>Intercom Time:</b>	Up to 7 hours
<b>Standby Time:</b>	Up to 300 hours
<b>Water Resistance:</b>	IP65
<b>Speaker Diameter:</b>	40 mm
<b>Impedance:</b>	32 Ohms
<b>Frequency Range:</b>	20 Hz - 20,000 Hz
<b>Noise Control:</b>	Active Noise Cancellation (CVC)
<b>Compatible Devices:</b>	Mobile phones, MP3 players, GPS devices

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official FreedConn website or contact your local distributor. Keep your purchase receipt as proof of purchase for warranty claims.

For common issues, please consult the troubleshooting section of this manual or the online FAQ resources provided by FreedConn.