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FreedConn TCOM-SC-800M

FreedConn TCOM-SC Motorcycle Intercom Headset User Manual

Model: TCOM-SC-800M

1. Introduction

The FreedConn TCOM-SC is a Bluetooth intercom system designed for motorcycle helmets, enabling communication, music playback, FM radio, and GPS navigation audio. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and user satisfaction.



Image 1.1: FreedConn TCOM-SC Motorcycle Bluetooth Helmet & Intercom in use.

2. Key Features

- **Bluetooth 5.0 Technology:** Ensures stable and efficient wireless connections.
- **2-Way Intercom:** Supports communication between two riders simultaneously within an 800-meter range. Up to 3 units can be paired.
- **Universal Pairing:** Compatible with most Bluetooth devices on the market.
- **Music Sharing:** Share audio with a paired FreedConn TCOM-SC unit over 300-400 meters.
- **High-Fidelity Audio:** Equipped with 40mm Hi-Fi speakers for clear sound quality.

- **LCD Display:** Provides real-time information on battery status, FM frequency, and volume.
- **Long Battery Life:** 450 mAh battery offers up to 10 hours of talk time and 300 hours of standby time. Charging takes approximately 2-3 hours.
- **FM Radio Function:** Listen to radio broadcasts while riding.
- **Waterproof Design:** IPX5 rated for reliable performance in rain or snow.
- **Advanced Noise Reduction:** Utilizes DSP echo compensation and digital noise reduction technology to minimize environmental noise up to 120 km/h.
- **Hands-Free Communication:** Supports Headset Profile (HSP) and Hands-Free Profile (HFP) for safe calling.
- **A2DP Support:** Advanced Audio Distribution Profile for stereo music streaming.
- **GPS Navigation Audio:** Receive voice prompts from your GPS device.



Image 2.1: Overview of FreedConn TCOM-SC key features.

3. Setup and Installation

3.1 Package Contents

Before installation, verify that all components are present:

- Bluetooth Main Unit (x2)
- Headphones & Microphones (x2 sets)
- Mounting Clamp (x2)
- 3M Adhesive Clip (x2)
- Velcro Pads (x8)
- USB Cable (x2)
- Screwdriver (x1)
- User Manual (x1)



Image 3.1: FreedConn TCOM-SC complete package contents.

3.2 Choosing the Right Microphone

The TCOM-SC includes two types of microphones to suit different helmet styles:

- **Boom Microphone:** Recommended for open-face, half-face, and modular helmets.
- **Soft Wired Microphone:** Recommended for full-face helmets.



Image 3.2: Boom and soft wired microphones for different helmet types.

3.3 Installation Steps

Follow these steps to install the TCOM-SC unit on your helmet:

1. **Attach the Clamp:** Securely attach the mounting clamp or 3M adhesive clip to the side of your helmet. Ensure it is positioned for easy access to the unit.
2. **Mount the Main Unit:** Slide the Bluetooth main unit onto the attached clamp until it clicks into place.
3. **Install Speakers:** Use the Velcro pads to attach the speakers inside the helmet, aligning them with your ears for optimal sound.
4. **Install Microphone:** Position the chosen microphone (boom or soft wired) inside the helmet near your mouth.
5. **Connect Cables:** Connect the speaker and microphone cables to the main unit. Ensure all connections are firm.



Image 3.3: Visual guide for installing the TCOM-SC on a helmet.

4. Operating Instructions

4.1 Power On/Off

- **Power On:** Press and hold the Power button until the indicator light turns on and you hear an audible prompt.
- **Power Off:** Press and hold the Power button until the indicator light turns off and you hear an audible prompt.

4.2 Bluetooth Pairing with Mobile Phone

To connect your TCOM-SC to a mobile phone:

1. Ensure the TCOM-SC is powered off.
2. Press and hold the Power button for approximately 5-7 seconds until the indicator light flashes red and blue alternately, indicating pairing mode.
3. On your mobile phone, enable Bluetooth and search for available devices.
4. Select "FreedConn TCOM-SC" from the list. If prompted, enter "0000" as the PIN.
5. Once paired, the indicator light will flash blue slowly.



Image 4.1: Diagram showing Bluetooth pairing with phone and GPS.

4.3 Intercom Pairing and Communication

The TCOM-SC supports 2-way intercom communication between two units. Up to three units can be paired, but only two can communicate simultaneously.

1. Ensure both TCOM-SC units are powered off.
2. On Unit A, press and hold the Power button until it enters pairing mode (red and blue flashing).
3. On Unit B, press and hold the Power button until it also enters pairing mode.
4. Briefly press the Power button on either Unit A or Unit B. The units will search for each other and connect. Once connected, the indicator lights will flash blue slowly.
5. To initiate intercom communication, briefly press the Intercom button on either connected unit.
6. To end intercom communication, briefly press the Intercom button again.

Universal Pairing: The TCOM-SC can also pair with most other Bluetooth intercom systems. Refer to the specific universal pairing procedures in your manual or contact customer support for detailed instructions.



Image 4.2: Universal pairing with another Bluetooth intercom unit.



Image 4.3: Two riders using the 800m duplex intercom feature.

4.4 Music Playback and Sharing

- **Play/Pause:** Briefly press the Multi-function button.
- **Next Track:** Rotate the Multi-function button clockwise.

- **Previous Track:** Rotate the Multi-function button counter-clockwise.
- **Music Sharing:** After two TCOM-SC units are Bluetooth-connected, one unit can initiate music sharing to the other. Refer to the specific music sharing function in your manual for detailed steps.



Image 4.4: Riders sharing music between two TCOM-SC units.

4.5 FM Radio

- **Turn On/Off FM:** Press the FM button.
- **Scan Stations:** Briefly press the Multi-function button to auto-scan and save stations.
- **Change Station:** Rotate the Multi-function button clockwise or counter-clockwise to switch between saved stations.



Image 4.5: LCD screen showing FM radio frequency.

4.6 Phone Calls

- **Answer Call:** The unit will automatically answer incoming calls after a few rings. You can also briefly press the Multi-function button to answer.
- **End Call:** Briefly press the Multi-function button.
- **Reject Call:** Press and hold the Multi-function button for 2 seconds.
- **Redial Last Number:** Double-press the Multi-function button.

5. Maintenance and Care

- **Storage Temperature:** Store the product between -20 °C to 60 °C (-4 °F to 140 °F). Avoid extreme temperatures to prevent damage and prolong battery life.
- **Fire Safety:** Keep the product away from fire to prevent explosions.
- **Long-Term Storage:** If not used for an extended period, store in a dry place and charge the product regularly (every

three months) to maintain battery health.

- **Cleaning:** Use a soft, damp cloth to clean the unit. Do not use harsh chemicals or abrasive cleaners.
- **Water Resistance:** While waterproof, avoid submerging the unit in water. Ensure all ports are securely closed during wet conditions.

6. Troubleshooting

6.1 No Sound or One-Sided Sound

If you experience no sound or only one side of the speakers working:

- Ensure the speaker connection is firmly plugged into the main unit.
- Verify that the speakers are correctly positioned over your ears for optimal volume.
- If the issue persists after checking connections, there might be a problem with the speakers. Contact customer support for replacement speakers.

6.2 Unable to Achieve 3-Person Intercom

The FreedConn TCOM-SC (and models like TCOM VB, BM2-S) supports pairing with up to 3 riders, but only allows**2 riders to intercom simultaneously**. It does not support active 3-way intercom with other brands.

6.3 Lost Cables or Damaged Clips

If you need replacement parts:

- **Mini-USB Connection Cable (Old Version):** Product ID B07PQ5KCKK
- **5-Pin USB Connection Cable (New Version):** Product ID B07QK81TJC
- **Mini-Headset (Old Version):** Product ID B06XF3FK91
- **5-Pin USB Headset (New Version):** Product ID B06XF3FNBZ
- **Clips:** Product IDs B06XFGZD9Z, B07NST9YSQ

7. Specifications

Model Number	TCOM-SC-800M
Brand	FreedConn
Bluetooth Version	5.0
Battery Type	Lithium-polymer (450 mAh)
Talk Time	Up to 10 hours
Standby Time	Up to 300 hours
Charging Time	2-3 hours
Intercom Range	Up to 800 meters (open surface)
Speaker Size	40 Millimeter
Noise Control	Active Noise Cancellation, DSP Echo Compensation
Water Resistance	Waterproof (IPX5)

Connectivity	Bluetooth, USB, GPS
Dimensions (Package)	21.6 x 16.3 x 5.2 cm
Weight (Package)	520 g

8. Warranty and Support

FreedConn provides **12 months of customer service** for the TCOM-SC intercom headset. If you encounter any issues with installation, operation, or require assistance, please contact FreedConn customer support via email. They are available to help with any product-related inquiries.

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