

## TIDRADIO TIDRADIO 2-Pin Covert Acoustic Tube Earpiece

# TIDRADIO 2-Pin Covert Acoustic Tube Earpiece for Motorola Radios

User Manual

## 1. INTRODUCTION

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This manual provides instructions for the proper setup, operation, and maintenance of your TIDRADIO 2-Pin Covert Acoustic Tube Earpiece. This earpiece is designed for use with compatible Motorola two-way radios, offering clear communication and privacy in various professional and personal settings. Please read this manual thoroughly before using the product.

## 2. PACKAGE CONTENTS

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Verify that all items are present in your package:

- 2 x TIDRADIO 2-Pin Covert Acoustic Tube Earpieces
- 1 pair Medium Ear molds (Left & Right)

## 3. COMPATIBILITY

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This earpiece is specifically designed for Motorola 2-pin radios. It is **not compatible** with Kenwood plug radios.

Compatible Motorola radio models include, but are not limited to:

- **CLS Series:** CLS446, CLS1110, CLS1410, CLS1413, CLS1450, CLS1450C, CLS1453CH
- **CP Series:** CP88, CP040, CP100, CP110, CP125, CP150, CP185, CP200, CP250, CP300, CP200D, XiR P3688, DP1400, DEP450, EP350 MX
- **GP Series:** GP2000, GP2100, GP300, GP308, GP68, GP88, GP88S, GP3688, GP3188, GP2000S, GP68
- **RDX Series:** RDV-5100, RDV2020, RDU2020, RDU2080D, RDU4100, RDU4160D, RDV2080D, RDV5100
- **XTN Series:** XTN446, XTN500, XTN600
- **XTN XV Series:** XV1100, XV2100, XV2600, XV4100
- **XTN XU Series:** XU1100, XU2100, XU2600, XU4100
- **AX Series:** AXV5100, AXU4100
- **Motorola Spirit Series:** SV10, SV11, SV11D, SV21, SV22, SV22C, SU210, SU22, SU22C, SU220 VHF/UHF Spirit, Spirit Pro, Spirit Pro+, Spirit HP 10
- **Spirit MU Series:** MU11, MU11C, MU11CV, MU12, MU12C, MU12CV, MU21C, MU21CV, MU22CVS,

MU24CV, MU24CVS, MU24CVST

- **Spirit MV Series:** MV11, MV11C, MV11CV, MV12, MV12CV, MV21C, MV21CV, MV22CV, MV24CVS
- **SP Series:** SP10, SP21, SP50+, SP50
- **HYT Models:** TC-300, TC-446S, TC-500, TC500S, TC-508, TC-518, TC-580, TC585, TC-600, TC-610, TC-618, TC-620, TC-700, TC-700EX, TC-700ExPLUS, TC-850, TC-900, TC-2100, TC-2100H, TC2110, TC2100, PD405, OD406, PD415, PD505, PD565, PD-502, PD-562
- **Other Series:** Mag One, GTI, GTX, LTS2000, VL130, PMR446, ECP100, BPR400, EP450, AU1200, AV1200

Please refer to the diagram below for the specific 2-pin connector dimensions:



**Figure 1:** 2-Pin Connector Dimensions. This image illustrates the precise dimensions of the 2-pin connector, ensuring compatibility with Motorola radios. The top pin measures 11mm, and the bottom pin measures 14mm, with an 8mm spacing between them. This design is specific to Motorola and not compatible with Kenwood plugs.

#### 4. SETUP INSTRUCTIONS

1. **Connect the Earpiece:** Insert the 2-pin connector firmly into the accessory port of your compatible Motorola two-way radio. Ensure a secure connection.
2. **Assemble Acoustic Tube and Ear Mold:** If not already assembled, attach the clear acoustic tube to the

earpiece speaker. Then, gently push the medium ear mold onto the end of the acoustic tube.

3. **Position the Earpiece:** Place the ear mold comfortably into your ear. Route the acoustic tube over your ear for a secure and discreet fit.
4. **Position the Microphone:** Clip the microphone unit to your collar or lapel using the rugged steel clothing clip. Ensure the microphone is positioned close to your mouth for optimal voice pickup. The PTT button should be easily accessible.



**Figure 2:** Detachable Acoustic Tube and Ear Mold. This image highlights the detachable components of the earpiece: the acoustic tube, made from surgical-grade UV-resistant clear material, and the ear mold. Both parts are designed for easy cleaning and replacement, ensuring hygiene and comfort.

## Noise Reduction Microphone with Side PTT



**Figure 3:** Microphone with PTT and Clip. This image displays the microphone unit, featuring a noise reduction microphone for clear audio transmission, a side Push-to-Talk (PTT) button for easy communication, and a durable steel clothing clip for secure attachment.

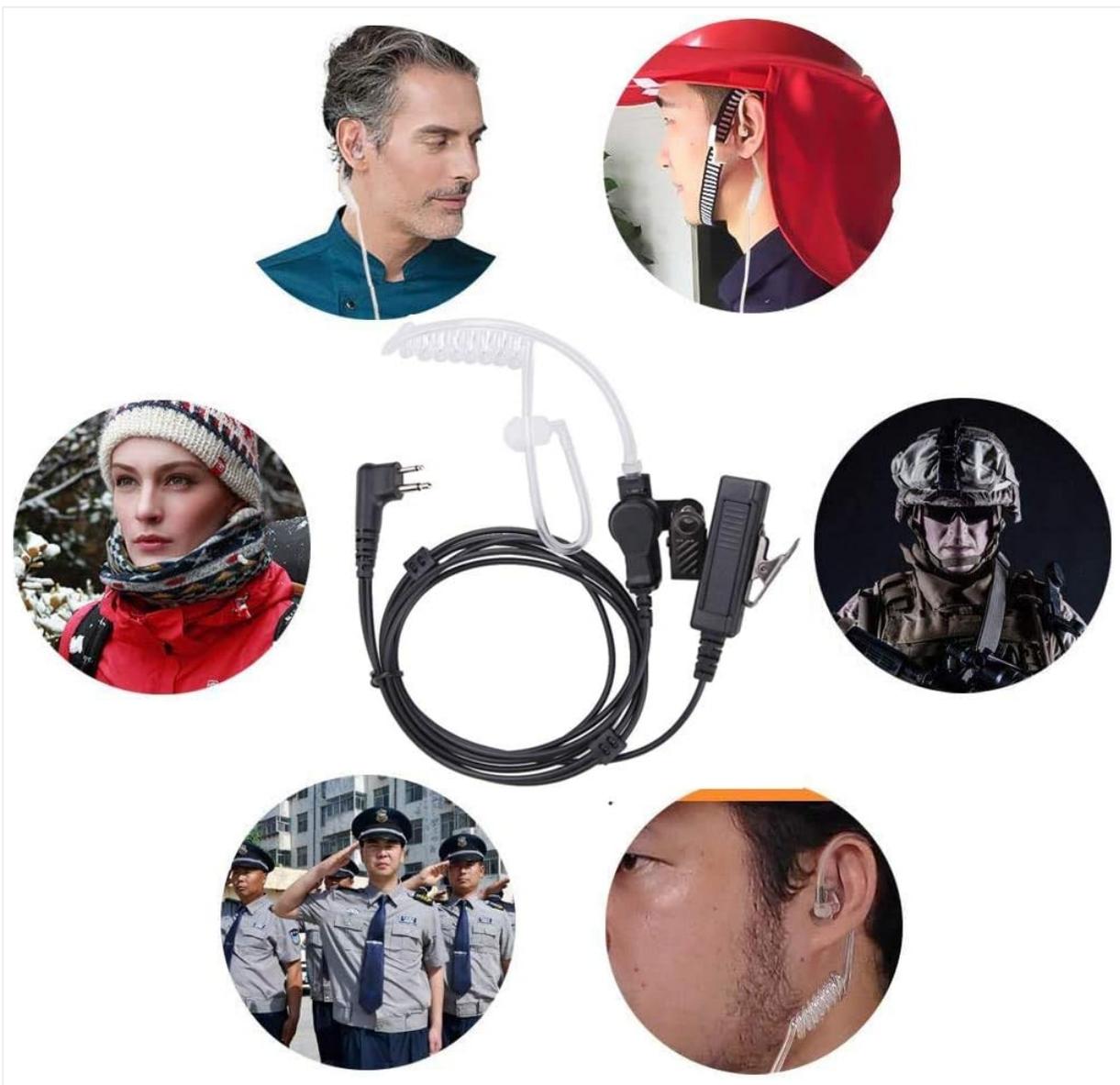


**Figure 4:** Earpiece Cable Lengths. This diagram illustrates the cable lengths of the earpiece. The cable from the 2-pin connector to the PTT/microphone unit is approximately 92 cm (36.2 inches). The cable from the PTT/microphone unit to the acoustic tube connection is approximately 91 cm (35.8 inches), providing ample length for comfortable wear and radio placement.

## 5. OPERATING INSTRUCTIONS

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1. **Receiving Audio:** Once connected, audio from your radio will be transmitted directly to your ear through the acoustic tube. Adjust your radio's volume for comfortable listening.
2. **Transmitting Audio (Push-to-Talk):** To speak, press and hold the Push-to-Talk (PTT) button located on the microphone unit. Speak clearly into the microphone. Release the PTT button when you are finished speaking to return to receive mode.
3. **Discreet Communication:** The covert acoustic tube design allows for private communication, making it suitable for environments where discretion is required.



**Figure 5:** Earpiece Usage Examples. This image shows several individuals wearing the earpiece, demonstrating its discreet and comfortable fit for different users and applications, such as security personnel, event staff, or outdoor enthusiasts.

Your browser does not support the video tag.

**Video 1:** TIDRADIO Earpiece Demonstration. This video demonstrates the features and proper use of the TIDRADIO 2-Pin Covert Acoustic Tube Earpiece for Motorola Radios, including how to connect it and wear it for optimal performance.

## 6. MAINTENANCE

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- **Cleaning the Acoustic Tube and Ear Mold:** Regularly clean the acoustic tube and ear mold with a mild soap solution and warm water. Ensure they are completely dry before reassembly and use. The detachable design facilitates easy cleaning.
- **Cable Care:** Avoid sharp bends or excessive pulling on the cables to prevent internal damage. Store the earpiece neatly when not in use.
- **Storage:** Store the earpiece in a clean, dry place away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

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- **No Sound or Poor Sound Quality:**

- Ensure the 2-pin connector is fully inserted into the radio's accessory port.
- Check the radio's volume level.
- Inspect the acoustic tube for kinks, blockages, or damage. Clean if necessary.
- Verify the ear mold is properly attached and not obstructed.

- **Microphone Not Transmitting:**

- Ensure the PTT button is fully pressed when speaking.
- Check that the microphone unit is positioned correctly and not covered.
- Confirm the earpiece is securely connected to the radio.

- **Earpiece Discomfort:**

- Adjust the position of the ear mold and acoustic tube for a better fit.
- Ensure the ear mold is clean and free of debris.

## 8. SPECIFICATIONS

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<b>Brand</b>	TIDRADIO
<b>Model Name</b>	Earpiece for Motorola Walkie Talkie
<b>Connectivity Technology</b>	Wired
<b>Wireless Communication Technology</b>	RF
<b>Headphones Jack</b>	2-Pin (Motorola specific)
<b>Noise Control</b>	None (Noise Reduction Microphone)
<b>Material</b>	Kevlar, Surgical Grade UV Resistant Clear Tube
<b>Cable Feature</b>	Detachable
<b>Control Type</b>	Remote Control (PTT)
<b>Water Resistance Level</b>	Not Water Resistant
<b>Item Weight</b>	2.39 ounces
<b>Color</b>	Black
<b>Ear Placement</b>	In Ear
<b>Form Factor</b>	In Ear
<b>Impedance</b>	50 Ohms

## 9. WARRANTY AND SUPPORT

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TIDRADIO products are manufactured with quality and reliability in mind. For any product inquiries, technical support, or warranty claims, please contact TIDRADIO customer service through the retailer where the product was purchased or visit the official TIDRADIO website for contact information.

