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Motorola EP900W

Motorola PMLN7851A EP900W Bluetooth Earpiece User Manual

Model: EP900W

1. Introduction

The Motorola PMLN7851A EP900W is a Bluetooth earpiece designed for seamless integration with compatible Motorola MOTOTRBO two-way radios and WAVE applications. This earpiece provides hands-free communication with an integrated Push-to-Talk (PTT) button, ensuring clear and efficient audio transmission for professional environments. Its design prioritizes comfort for extended wear.

2. Safety Information

Please read all safety instructions before using the earpiece to ensure safe and proper operation.

- **Hearing Protection:** Avoid prolonged exposure to high volume levels, which can cause permanent hearing damage. Always adjust the volume to a comfortable level.
- **Battery Care:** Do not attempt to replace the battery. Do not expose the earpiece to extreme temperatures, direct sunlight, or open flames. Dispose of batteries according to local regulations.
- **Water Resistance:** This earpiece is **not water resistant**. Avoid exposure to rain, moisture, or liquids.
- **Cleaning:** Disconnect the earpiece from any power source before cleaning. Use a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Interference:** Electronic devices may be susceptible to electromagnetic interference. Observe all warning signs and instructions.

3. Package Contents

Verify that all items are present in your package:

- Motorola EP900W Bluetooth Earpiece with Integrated Microphone
- Assorted Earpiece Molds/Shapes (typically 5 standard shapes for customized fit)
- USB Charging Cable (USB-micro)

4. Product Overview

Familiarize yourself with the components of your Motorola EP900W Bluetooth Earpiece:



The image displays the Motorola EP900W Bluetooth Earpiece. It features a black, ergonomic design with an over-the-ear hook for secure fit. A slender boom extends from the main body, housing the integrated microphone. Control buttons are visible on the side of the main unit and on the microphone boom, along with a USB charging port.

- **Ear Hook:** Designed to fit securely over the ear. Rotates approximately 90 degrees for left or right ear use.
- **Microphone Boom:** Extends from the earpiece, positioning the microphone closer to your mouth for clear voice pickup.
- **Push-to-Talk (PTT) Button:** Located on the microphone boom for easy access to initiate transmissions.
- **Volume/Control Buttons:** Located on the main body of the earpiece for power and potentially other functions.
- **USB Charging Port:** Micro-USB port for charging the earpiece battery.

5. Setup

5.1. Charging the Earpiece

Before first use, fully charge your earpiece.

1. Locate the USB charging port on the earpiece (typically covered by a small flap).
2. Connect the provided USB-micro cable to the earpiece's charging port.
3. Connect the other end of the USB cable to a compatible USB power source (e.g., computer USB port, wall adapter).
4. The indicator light on the earpiece will show charging status (e.g., solid red for charging, green for fully charged).
5. Once fully charged, disconnect the cable.

5.2. Pairing with Your Radio

The EP900W earpiece uses Bluetooth for wireless communication with your two-way radio.

1. Ensure your Motorola two-way radio (XPR, SL series with embedded operations critical Bluetooth, or WAVE 5000) has its Bluetooth function enabled. Refer to your radio's user manual for specific instructions.
2. Put the EP900W earpiece into pairing mode. This usually involves pressing and holding the power button or a dedicated pairing button until the indicator light flashes rapidly (e.g., alternating blue/red).
3. On your radio, initiate a Bluetooth device search.
4. Select "EP900W" or a similar identifier from the list of found devices on your radio's display.
5. Confirm the pairing. Once successfully paired, the earpiece indicator light will change (e.g., slow blue flash), and you may hear an audible confirmation.
6. *Note:* Once paired, the earpiece should automatically connect to the radio when both devices are powered on and within range.

5.3. Wearing the Earpiece

For optimal comfort and audio quality:

1. Select the earpiece mold/shape that best fits your ear for comfort and sound isolation.
2. Adjust the ear hook to fit over your ear. The earpiece can be rotated to be worn on either the left or right ear.
3. Position the microphone boom so that the microphone is close to your mouth, typically pointing towards the corner of your mouth, for clear voice transmission.

6. Operating Instructions

6.1. Powering On/Off

- **To Power On:** Press and hold the power button (usually one of the main control buttons) for a few seconds until the indicator light illuminates and you hear an audible prompt.
- **To Power Off:** Press and hold the power button again for a few seconds until the indicator light turns off and you hear an audible prompt.

6.2. Using the Push-to-Talk (PTT) Button

- To transmit, press and hold the PTT button located on the microphone boom.
- Speak clearly into the microphone.
- Release the PTT button to stop transmitting and return to receive mode.

6.3. Adjusting Volume

- The primary volume control for incoming audio is typically managed directly on your connected Motorola two-way radio. Adjust the radio's volume control to your desired listening level.
- The earpiece itself may have secondary volume controls or the ability to boost transmission volume. Refer to the specific functionality of the buttons on your earpiece.

6.4. Compatibility

The EP900W earpiece is designed for use with specific Motorola radios:

- **Compatible Radios:** APX 900, XPR 3300e, XPR 3500e, XPR 7350, XPR 7350e, XPR 7550, XPR 7550e, XPR 7580, XPR 7580e, SL 3500e, SL 7550, SL 7550e, SL 7580, SL 7580e, SL 7590, SL 7590e, WAVE 5000.
- **Not Compatible With:** APX series mission critical Bluetooth or any generic Bluetooth radio adapters. This earpiece is optimized for Motorola's embedded operations critical Bluetooth.

7. Maintenance and Care

- **Cleaning:** Regularly wipe the earpiece with a soft, dry, lint-free cloth. Do not use liquids or sprays directly on the device.
- **Storage:** Store the earpiece in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery Life:** To preserve battery life, avoid fully discharging the earpiece frequently. Charge it regularly, even if not in constant use.

8. Troubleshooting

If you encounter issues with your EP900W earpiece, refer to the table below for common problems and solutions.

Problem	Possible Solution
Earpiece does not power on.	Ensure the earpiece is fully charged. Press and hold the power button for the required duration.
Earpiece does not pair with radio.	Ensure both devices are in pairing mode. Check that the radio's Bluetooth is enabled. Ensure the earpiece is within range. Verify radio compatibility. Try restarting both devices.
No audio or poor audio quality.	Check radio volume settings. Ensure the earpiece is securely connected to the radio via Bluetooth. Reposition the earpiece for better fit. Ensure microphone is properly positioned.
PTT button not responding.	Ensure the earpiece is powered on and successfully paired with the radio. Check for any radio-specific PTT settings.

9. Specifications

Key technical specifications for the Motorola EP900W Bluetooth Earpiece:

Feature	Detail
Model Number	EP900W
Connectivity Technology	Wireless (Bluetooth)
Form Factor	In Ear (with Hook)
Ear Placement	In Ear
Color	Black
Material	Silicone, Plastic
Included Components	Microphone (integrated into earpiece)
Control Type	Physical Button, Push Button, Touch
Water Resistance Level	Not Water Resistant
Item Weight	2.64 ounces
UPC	748091006876

10. Warranty and Support

Motorola products are designed for reliability and performance. For information regarding warranty coverage, technical support, or service, please refer to the official Motorola Solutions website or contact your authorized Motorola dealer. Keep your proof of purchase for warranty claims.

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