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## Astatic 302-10005

# Astatic 302-10005 D104M6B Amplified Ceramic Power 4-Pin CB Microphone

User Manual

## 1. INTRODUCTION

This manual provides instructions for the Astatic 302-10005 D104M6B Amplified Ceramic Power 4-Pin CB Microphone. Designed for superior performance in mobile environments, this microphone offers clear and reliable communication for CB radio users.

### Key Features:

- Amplified Ceramic Power Element
- 4-Pin CB Connection
- Durable Molded Black ABS Housing
- Chrome-Plated Grille Screen
- External Gain Control
- Flexible Coiled Cord (7.5 feet)



Image 1.1: The Astatic D104M6B microphone, showcasing its design and coiled cord.

## 2. SETUP AND INSTALLATION

### 2.1 Battery Installation

The Astatic D104M6B requires one 9V battery (not included) for its amplified ceramic power element. Follow these steps to install the battery:

1. Locate the four screws on the back cover of the microphone.
2. Carefully remove the screws and detach the back cover.
3. Insert a new 9V battery into the battery compartment. Ensure correct polarity. The circuit board has direct battery attachments; support the circuit board with a finger while pressing the battery into place to prevent damage.
4. Replace the back cover and secure it with the four screws.



Image 2.1: Rear view of the microphone, indicating the location for battery access and gain control.

## 2.2 Connecting to Your CB Radio

This microphone features a standard 4-pin connector for compatibility with most CB radios. Ensure your CB radio is powered off before connecting the microphone.

1. Align the 4-pin connector of the microphone with the microphone port on your CB radio.
2. Gently push the connector into the port until it is fully seated.
3. Secure the connection by tightening the threaded collar on the microphone connector, if present, to the radio's port.

## 3. OPERATING INSTRUCTIONS

### 3.1 Transmitting (Push-to-Talk)

To transmit your voice, firmly press and hold the Push-to-Talk (PTT) button located on the side of the microphone. Release the button to stop transmitting and return to receive mode.

### 3.2 Adjusting Microphone Gain (Volume)

The Astatic D104M6B includes an external gain control knob on the back of the microphone. This allows you to adjust the output volume of your voice. Experiment with this setting to achieve optimal audio clarity and power for your specific CB radio and operating conditions.

- Start with the gain control at a lower setting (e.g., 25% or '3' on a scale of 10).
- Transmit a test message and ask for an audio report from another station.
- Gradually increase the gain until your audio is clear and strong without distortion or feedback.
- Avoid setting the gain too high, as this can cause over-modulation, distortion, and potential feedback, especially if your radio has a talk-back feature.

## 4. MAINTENANCE

### 4.1 General Care

To ensure the longevity and optimal performance of your microphone:

- Keep the microphone clean and free from dust and debris. Use a soft, dry cloth for cleaning the housing.
- Avoid exposing the microphone to extreme temperatures, moisture, or direct sunlight for extended periods.
- Handle the coiled cord carefully to prevent kinks or damage.

## 4.2 Battery Replacement

Replace the 9V battery when you notice a decrease in audio output or clarity, or if the microphone stops transmitting amplified audio. Refer to Section 2.1 for battery installation instructions.

# 5. TROUBLESHOOTING

## 5.1 No Audio Output or Weak Audio

- **Check Battery:** Ensure a fresh 9V battery is correctly installed.
- **Gain Control:** Verify the microphone gain control is not set too low or completely off. Adjust as needed (refer to Section 3.2).
- **Connection:** Confirm the 4-pin connector is securely attached to your CB radio.
- **Radio Settings:** Check your CB radio's microphone gain or volume settings.

## 5.2 Distorted Audio or Feedback

- **Gain Control:** The microphone gain may be set too high. Reduce the gain control setting (refer to Section 3.2).
- **Proximity:** If using a radio with a talk-back feature, feedback can occur if the microphone is too close to the radio's speaker.
- **Radio Settings:** Check your CB radio's internal microphone gain or audio processing settings.

# 6. SPECIFICATIONS

Feature	Specification
Microphone Form Factor	Handheld
Power Source	9V Battery (not included)
Material	Ceramic (element), ABS (housing)
Signal-to-Noise Ratio	80 dB
Connectivity Technology	4-Pin Connector
Special Feature	Coiled cord, External Gain Control
Compatible Devices	CB Radio
Color	Black
Product Dimensions	2.5 x 8 x 9 inches
Item Weight	8.1 ounces
Model Number	302-10005

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

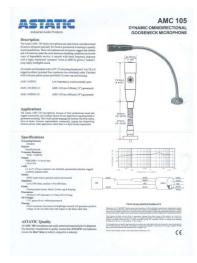
This Astatic microphone comes with a one-year factory warranty. Please retain your proof of purchase for warranty claims.

### 7.2 Customer Support

For further assistance or technical support, please refer to the contact information provided with your product packaging or visit the official Astatic website.

### Related Documents - 302-10005

	<p><a href="#">Astatic AST878DM Transistorized Desk Paging Microphone - Product Overview and Specifications</a></p> <p>Detailed information on the Astatic AST878DM, a rugged, omni-directional ceramic desk paging microphone designed for industrial and commercial applications. Features include push-to-talk functionality, adjustable volume, and a durable Cycolac housing. Specifications, applications, and warranty details are provided.</p>
	<p><a href="#">Astatic Microphones: D104 Family and More - Product Catalog &amp; Technical Guide</a></p> <p>Explore the range of Astatic communication microphones, including the classic D104 family, Silver Eagle, Road Devil, 636L, and more. Features, specifications, and technical notes for amateur radio operators.</p>
	<p><a href="#">Astatic 575M-6 Transistorized Microphone with External Controls</a></p> <p>Detailed specifications and operational guide for the Astatic 575M-6 transistorized microphone, featuring external tone and volume controls, high gain amplifier, and a durable design.</p>
	<p><a href="#">ASTATIC 40-118 Microphone Base: Technical Specifications and Operation</a></p> <p>Detailed specifications, user techniques, operation, and warranty information for the ASTATIC 40-118 utility microphone base, designed for professional audio applications.</p>

	<p><a href="#"><u>Astatic AMC 105 Dynamic Omnidirectional Gooseneck Microphone Specifications</u></a></p> <p>Detailed specifications and overview of the Astatic AMC 105 Series dynamic omnidirectional gooseneck microphone, including its features, applications, technical data, and warranty information.</p>
	<p><a href="#"><u>Astatic MP200 Multifunction Audio/Video Media Player User Guide</u></a></p> <p>User guide for the Astatic MP200 Multifunction Audio/Video Media Player, detailing its features, setup, operation, and specifications. Includes information on CD/USB audio playback, DVD and USB video playback, Bluetooth connectivity, and important safety instructions.</p>