

## Astatic 302-AST878DM

# Astatic 302-AST878DM CB Desk Microphone User Manual

Model: 302-AST878DM

## INTRODUCTION

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This manual provides essential information for the proper setup, operation, and maintenance of your Astatic 302-AST878DM CB Desk Microphone. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



Image: Front view of the Astatic 302-AST878DM CB Desk Microphone, showcasing its black finish and base.

## IMPORTANT SAFETY INFORMATION

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**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

- Do not expose the microphone to extreme temperatures, moisture, or direct sunlight.
- Handle the microphone with care to prevent damage to internal components.
- Ensure proper wiring to your CB radio. Incorrect wiring can cause damage to the microphone or radio.
- Keep out of reach of children.

## PACKAGE CONTENTS

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Verify that all items are present upon unpacking:

- Astatic 302-AST878DM CB Desk Microphone
- User Manual (this document)



Image: Retail packaging for the Astatic 302-AST878DM CB Desk Microphone.

## PRODUCT FEATURES

- **Rugged Cycolac Resin Housing:** Provides durability for industrial and commercial applications.
- **Standard Push-to-Talk (PTT) and Lock-to-Talk Buttons:** For convenient operation.
- **High Quality Omni Directional Ceramic Cartridge:** Ensures clear audio transmission.

- **5 Conductor Shielded Standard Astatic Color Coded Cable:** Designed for reliable connection.
- **4-Pin Connector:** Standard connector for CB radios.
- **Battery Powered:** Requires one standard 9-Volt battery (not included).

## SETUP INSTRUCTIONS

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### 1. Battery Installation

1. Locate the battery compartment on the underside of the microphone base.
2. Open the compartment cover.
3. Insert one (1) standard 9-Volt battery, ensuring correct polarity.
4. Close the battery compartment cover securely.

### 2. Connecting to your CB Radio

The Astatic 302-AST878DM is equipped with a 4-pin connector. **It is crucial to ensure proper wiring for your specific CB radio model.** Many CB radios have different wiring configurations. Incorrect wiring can lead to malfunction or damage.

- Consult your CB radio's instruction manual for its specific microphone wiring diagram.
- If the microphone's 4-pin connector does not match your radio's wiring, professional assistance may be required for re-wiring.
- Carefully plug the 4-pin connector into the microphone input jack on your CB radio.



Image: The Astatic 302-AST878DM CB Desk Microphone showing its coiled cable and 4-pin connector.

## OPERATING INSTRUCTIONS

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### Push-to-Talk (PTT) Function

1. To transmit, press and hold the PTT button located on the microphone base.
2. Speak clearly into the microphone.
3. Release the PTT button to stop transmitting and return to receive mode.

### Lock-to-Talk Function

1. To engage continuous transmission, press the "LOCK" button on the microphone base.

- 2. The microphone will remain in transmit mode without needing to hold the PTT button.
- 3. To disengage, press the "LOCK" button again.

**Note:** Always ensure the microphone is properly connected and powered before operation. Adjust your CB radio's microphone gain (if available) for optimal audio quality.

## MAINTENANCE AND CARE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the microphone. Do not use liquid cleaners or solvents.
- **Battery Replacement:** Replace the 9-Volt battery when audio quality degrades or the microphone stops transmitting.
- **Storage:** Store the microphone in a cool, dry place away from direct sunlight and extreme temperatures when not in use for extended periods.
- **Cable Care:** Avoid sharp bends or kinks in the coiled cable to prevent internal wire damage.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No audio transmission / Weak audio	Dead or low 9V battery Incorrect wiring to CB radio Microphone gain on CB radio set too low Faulty cable connection	Replace 9V battery Verify wiring against CB radio manual; re-wire if necessary Adjust microphone gain on CB radio Ensure 4-pin connector is fully seated
Distorted audio	Microphone gain on CB radio set too high Proximity to microphone (speaking too close)	Reduce microphone gain on CB radio Maintain a consistent distance from the microphone (e.g., 2-3 inches)
PTT or Lock-to-Talk buttons not responding	Internal button malfunction Wiring issue	Ensure proper wiring. If problem persists, contact support.

If the issue persists after attempting these solutions, please contact Astatic customer support.

## SPECIFICATIONS

Feature	Detail
Model Number	302-AST878DM
Microphone Form Factor	Table Array (Desk Microphone)

Feature	Detail
Polar Pattern	Omnidirectional
Audio Sensitivity	56 Decibels
Signal-to-Noise Ratio	60 dB
Connectivity Technology	Auxiliary
Connector Type	4-pin
Power Source	Battery Powered (1 x 9V battery required, not included)
Material	Cyclac Resin, Ceramic
Color	Black
Item Weight	1.65 pounds (approx. 0.75 kg)
Product Dimensions (L x W x H)	4.9 x 8.2 x 10.8 inches (approx. 12.4 x 20.8 x 27.4 cm)
Compatible Devices	CB Radio (requires proper wiring)

## WARRANTY AND CUSTOMER SUPPORT

For warranty information or technical assistance, please refer to the official Astatic website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

**Manufacturer:** Astatic

**Website:** [www.astaticmics.com](http://www.astaticmics.com) (Example, actual URL may vary)