

Behringer TA 312S

Behringer TA 312S Dynamic Gooseneck Microphone and Shure A400SMXLR Shock Mount Combination User Manual

Model: TA 312S

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Behringer TA 312S Dynamic Gooseneck Microphone and the accompanying Shure A400SMXLR Shock Mount. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

The Behringer TA 312S is a dynamic gooseneck microphone designed for vocal applications, offering clear sound reproduction. The Shure A400SMXLR is a shock mount system that allows for permanent installation and quick-release functionality for gooseneck microphones, reducing unwanted vibrations and noise.

2. SAFETY INSTRUCTIONS

- **Power Source:** Ensure the microphone is connected to compatible audio equipment with appropriate power specifications.
- **Moisture:** Do not expose the microphone or shock mount to rain, moisture, or extreme humidity.
- **Cleaning:** Use a soft, dry cloth for cleaning. Avoid liquid cleaners or solvents.
- **Handling:** Handle the gooseneck microphone with care. Avoid excessive bending or forceful manipulation of the flexible shaft.
- **Installation:** When installing the Shure A400SMXLR shock mount, ensure it is securely fastened to a stable surface to prevent accidental detachment.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. PRODUCT OVERVIEW

This section provides a visual and descriptive overview of the Behringer TA 312S Dynamic Gooseneck Microphone and the Shure A400SMXLR Shock Mount components.



Figure 3.1: Behringer TA 312S Dynamic Gooseneck Microphone and Shure A400SMXLR Shock Mount components. This image displays the complete package, including the gooseneck microphone and the separate shock mount parts.

3.1 Behringer TA 312S Dynamic Gooseneck Microphone

The Behringer TA 312S is a professional dynamic microphone featuring a flexible gooseneck shaft for precise positioning. It is designed with a cardioid polar pattern to minimize background noise and feedback, making it suitable for vocal applications such as talkback, podiums, and conferences.

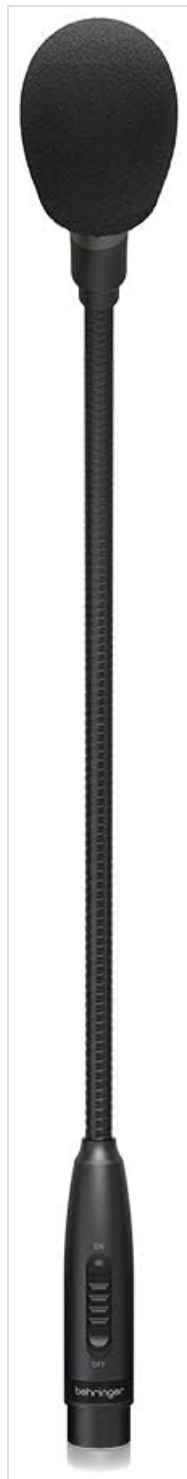


Figure 3.2: Front view of the Behringer TA 312S dynamic gooseneck microphone. This shows the microphone head with its foam windscreen and the straight gooseneck shaft.



Figure 3.3: Side view of the Behringer TA 312S dynamic gooseneck microphone, illustrating the flexibility of the shaft for optimal positioning.

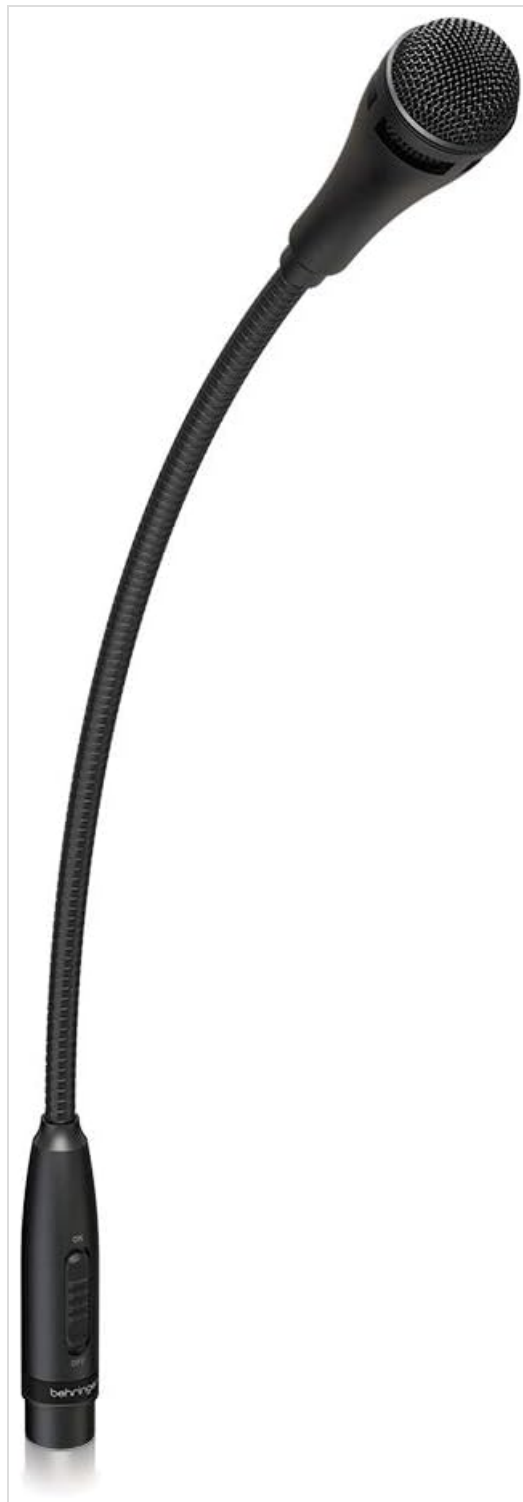


Figure 3.4: Angled view of the Behringer TA 312S dynamic gooseneck microphone, showing the microphone head, flexible shaft, and the integrated ON/OFF switch at the base.

3.2 Shure A400SMXLR Shock Mount

The Shure A400SMXLR is a specialized shock mount designed for permanent installation, providing a quick-release mechanism for gooseneck microphones. It effectively isolates the microphone from surface vibrations, ensuring cleaner audio capture. The package includes the A400SM Shock Mount and the A400XLR Connector/Insert.



Figure 3.5: Disassembled components of the Shure A400SMXLR shock mount. This image shows the main base unit, the XLR connector insert, and a rubber O-ring.



Figure 3.6: Assembled Shure A400SMXLR shock mount, with the XLR insert securely placed within the base, ready for mounting.



Figure 3.7: Shure A400SMXLR shock mount with the XLR insert partially installed, illustrating how the connector fits into the shock mount base.

4. SETUP

4.1 Installing the Shure A400SMXLR Shock Mount

1. **Select Location:** Choose a stable, flat surface for permanent installation, such as a podium, desk, or conference table.
2. **Mark Drilling Points:** Use the shock mount base as a template to mark the positions for the mounting screws.
3. **Drill Pilot Holes:** Drill appropriate pilot holes for your chosen mounting screws.
4. **Secure Base:** Fasten the A400SM shock mount base securely to the surface using screws (not included).
5. **Insert XLR Connector:** Place the A400XLR connector/insert into the center opening of the mounted base. Ensure it clicks or locks into place firmly.

4.2 Connecting the Behringer TA 312S Microphone

1. **Attach Microphone:** Align the XLR connector at the base of the Behringer TA 312S microphone with the A400XLR insert in the shock mount. Push firmly until it locks into place.
2. **Connect to Audio Equipment:** Connect an XLR cable (not included) from the output of the A400SMXLR shock mount to your audio interface, digital recorder, or mixing console.
3. **Power On:** Ensure your audio equipment is powered on and configured for microphone input.

5. OPERATING INSTRUCTIONS

5.1 Microphone Placement

- **Adjust Gooseneck:** Utilize the flexible gooseneck shaft to position the microphone head optimally for the sound source. For speech, typically 6-12 inches from the speaker's mouth is recommended.
- **Cardioid Pattern:** The TA 312S features a cardioid (unidirectional) polar pattern. This means it is most sensitive to sound coming from the front and rejects sound from the sides and rear. Position the microphone directly towards the desired sound source to minimize background noise and potential feedback.

5.2 Powering On/Off

- **ON/OFF Switch:** Locate the ON/OFF switch on the base of the Behringer TA 312S microphone. Slide the switch to the 'ON' position to activate the microphone. Slide it to 'OFF' when not in use.

5.3 Audio Level Adjustment

- **Gain Control:** Adjust the input gain on your connected audio interface or mixing console. Start with the gain low and gradually increase it while speaking into the microphone until a healthy signal level is achieved without clipping (distortion).
- **Monitor Sound:** Listen to the microphone's output through headphones or speakers to ensure clear audio and make any necessary adjustments to placement or gain.

6. MAINTENANCE

- **Cleaning:** Regularly wipe the microphone and shock mount with a soft, dry, lint-free cloth. Do not use abrasive cleaners, waxes, or solvents.
- **Storage:** When not in use for extended periods, store the microphone in a clean, dry environment, away from extreme temperatures and direct sunlight.
- **Inspection:** Periodically check all connections and mounting screws for tightness and wear.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	Microphone OFF; Loose cable connection; Incorrect input selection on audio equipment; Faulty cable.	Ensure microphone switch is ON; Check all XLR cable connections; Verify correct input is selected on mixer/interface; Try a different XLR cable.
Low or weak sound	Low gain setting; Microphone too far from sound source.	Increase input gain on audio equipment; Reposition microphone closer to the sound source.

Problem	Possible Cause	Solution
Distorted sound	Input gain too high (clipping); Microphone too close to sound source.	Reduce input gain on audio equipment; Move microphone slightly further from the sound source.
Excessive background noise	Microphone not pointed correctly; Environmental noise; Lack of shock isolation.	Ensure microphone is pointed directly at the sound source; Minimize ambient noise; Verify shock mount is properly installed and functioning.
Feedback (howling sound)	Microphone too close to speakers; Speakers too loud; Microphone pointed at speakers.	Reposition microphone further from speakers; Reduce speaker volume; Ensure microphone is not pointed towards speakers.

8. SPECIFICATIONS

Feature	Specification
Brand	Behringer
Model	TA 312S
Microphone Form Factor	Gooseneck
Polar Pattern	Unidirectional (Cardioid)
Connectivity Technology	XLR
Connector Type	XLR
Frequency Response	16000 Hz (Upper Limit)
Recommended Uses	Singing, Speech
Compatible Devices	Audio Interface, Digital Recorder, Mixing Console
Power Source	Corded Electric
Included Components	Microphone (Behringer TA 312S)
Shock Mount	Shure A400SMXLR (A400SM Shock Mount & A400XLR Insert)

9. WARRANTY AND SUPPORT

Behringer products are designed and manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Behringer website. For technical support or service inquiries, please contact Behringer customer support through their official channels.

For support regarding the Shure A400SMXLR component, please refer to Shure's official documentation and customer support resources.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question