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## Shure A15HP

# Shure A15HP High Pass Filter User Manual

Model: A15HP | Brand: Shure

## 1. Introduction

The Shure A15HP in-line filter is designed to pass mid and high frequencies while effectively reducing low frequencies. This accessory is crucial for eliminating unwanted electrical and mechanical noise in audio systems. It helps mitigate issues such as 60Hz electrical hum originating from AC power lines, low-frequency rumble caused by wind noise or air conditioning systems, and stage or floor noise transmitted through microphone stands. The A15HP specifically targets and affects frequencies below 100 Hz, providing a reduction of 12dB per octave when connected to a typical mixer input with an impedance of 800 ohms or higher. It features a female XLR to male XLR connector for seamless integration into your audio chain.

## 2. Setup and Connection

The A15HP High Pass Filter is an in-line device, meaning it connects directly within your existing microphone cable path. Its design features a female XLR connector on one end and a male XLR connector on the other, allowing for straightforward insertion.

- **Identify Connection Points:** Locate the microphone output (male XLR) and the mixer input (female XLR) where you intend to apply the filter.
- **Connect the Filter:**
    1. Connect the male XLR end of the A15HP filter to the female XLR input of your mixer or audio interface.
    2. Connect your microphone's cable (which typically has a female XLR connector) to the female XLR end of the A15HP filter.
- **Mixer Impedance:** For optimal performance, ensure the microphone input on your mixer has an impedance of 800 ohms or higher. This allows the A15HP to effectively reduce low frequencies by 12dB per octave.




Figure 2.1: The Shure A15HP High Pass Filter, illustrating its in-line design with male and female XLR connectors for easy integration into an audio

signal path.




Figure 2.2: Close-up view of the Shure A15HP High Pass Filter, highlighting the female XLR input where a microphone cable connects.




Figure 2.3: Close-up view of the Shure A15HP High Pass Filter, showing the male XLR output that connects to a mixer or audio interface.

## 3. Operating Principles

Once connected, the Shure A15HP operates automatically as a passive high-pass filter. It requires no external power or configuration. Its primary function is to attenuate frequencies below 100 Hz, effectively cleaning up the audio signal by removing unwanted low-end noise.

- **Noise Reduction:** The filter is highly effective in reducing common audio interferences such as 60Hz electrical hum, low-frequency rumble from environmental sources (e.g., HVAC systems, wind noise), and structural vibrations transmitted through microphone stands.
- **Frequency Response:** It allows mid and high frequencies to pass through unaffected, preserving the clarity and integrity of the desired audio signal, particularly for vocals and instruments where excessive low-end is undesirable.
- **Application:** Ideal for live sound, studio recording, and broadcast applications where a cleaner, more focused sound is required, especially for microphones picking up unwanted low-frequency content.

## 4. Maintenance

The Shure A15HP High Pass Filter is a robust and low-maintenance device. To ensure its longevity and continued performance, follow these simple guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the exterior of the filter. Avoid using liquid cleaners, solvents, or abrasive materials, as these can damage the finish or internal components.
- **Storage:** When not in use, store the filter in a clean, dry environment, away from extreme temperatures, humidity, and direct sunlight. Using a protective case or bag can prevent physical damage to the connectors.
- **Connector Care:** Periodically inspect the XLR connectors for any signs of corrosion, bending, or debris. Keep the pins and sockets clean to ensure a reliable connection.
- **Handling:** Handle the filter with care. Avoid dropping it or subjecting it to strong impacts, which could compromise its internal circuitry.

## 5. Troubleshooting

If you encounter issues while using your Shure A15HP High Pass Filter, consider the following troubleshooting steps:

- **No Sound or Intermittent Audio:**
  - **Check Connections:** Ensure both the male and female XLR connectors of the A15HP are securely and correctly plugged into the microphone cable and mixer input.
  - **Cable Integrity:** Test your microphone cable and other audio cables independently to rule out cable faults.
  - **Phantom Power:** The A15HP is a passive device and passes phantom power. Ensure phantom power is correctly supplied by your mixer if your microphone requires it.
- **Low-Frequency Noise Persists:**
  - **Mixer Input Impedance:** Verify that your mixer's microphone input impedance is 800 ohms or higher. Lower impedances may reduce the filter's effectiveness.
  - **Noise Source:** Confirm that the noise is indeed low-frequency (below 100 Hz). The A15HP is designed for this specific range. Other types of noise (e.g., hiss, buzz at higher frequencies) will not be addressed by this filter.
  - **Environmental Factors:** While the A15HP reduces rumble, extreme environmental noise may still be audible. Consider additional acoustic treatment or microphone placement adjustments.
- **Distortion or Clipping:**
  - The A15HP is a filter, not an attenuator. If you are experiencing clipping due to an excessively hot signal, you may need an in-line attenuator (pad) in addition to or instead of the high-pass filter.

## 6. Specifications

| Attribute | Detail |
|---|---|
| Model Number | A15HP |
| Description | In-line filter passes mid and high frequencies while reducing low frequencies. |
| Frequency Effect | Affects frequencies below 100 Hz |
| Low Frequency Reduction | 12dB per octave (with 800 ohms or higher mixer input impedance) |
| Connector Type | Female XLR to Male XLR |
| Compatible Devices | Microphone |
| Item Weight | 3.52 ounces (0.109 kilograms) |
| Product Dimensions | 7.9 x 5.6 x 2 inches |

| | |
|---|---|
| Country of Origin | Mexico |
| Color Name | Black |
| Material Type | Foam, Paper (referring to packaging/internal components, not the filter body itself) |
| Wattage | 16.31 watts |
| Date First Available | December 16, 2004 |

## 7. Warranty Information

For detailed information regarding the warranty for your Shure A15HP High Pass Filter, please refer to the official Warranty Document provided by Shure.
**Official Warranty Document:** Download PDF

## 8. Support and Contact

For further assistance, technical support, or inquiries about the Shure A15HP High Pass Filter or other Shure products, please visit the official Shure website or contact their customer support.

- **Shure Official Store:** Visit Shure Store on Amazon
- For general information about Shure products and support, please refer to the official Shure website.

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