

Heil Sound PR-781

Heil Sound PR-781 ProLine Dynamic Desk Microphone User Manual

Model: PR-781

1. INTRODUCTION

The Heil Sound PR-781 is a professional-quality dynamic cardioid microphone designed for amateur radio and podcasting. It is engineered to provide clear speech articulation and a wide frequency response, making it suitable for various audio applications. This manual provides essential information for setting up, operating, and maintaining your PR-781 microphone.



Figure 1: Heil Sound PR-781 ProLine Dynamic Desk Microphone.

2. SETUP

2.1 Unpacking

Carefully remove all components from the packaging. The box contains the PR-781 microphone and a zippered padded bag for storage. The microphone is secured using a tension packaging method; gently pull one side of the packaging to release the microphone.



Figure 2: The PR-781 is an end-fire microphone, designed for direct speech input.

2.2 Mounting the Microphone

The PR-781 includes a standard mount. This mount can be removed if you intend to use the microphone with a shock mount or a different microphone stand. To remove the mount, unscrew the retaining knob. If using a shock mount, the included mount is typically not required.



Figure 3: PR-781 mounted on a typical microphone stand.

2.3 Connecting the Microphone

The PR-781 features a 3-pin XLR connector. Connect a standard XLR cable (not included) from the microphone to your audio interface, mixer, or compatible transceiver. Ensure the connection is secure.

3. OPERATING INSTRUCTIONS

3.1 Microphone Orientation

The PR-781 is an "end-fire" microphone. This means audio is primarily acquired from the end of the microphone (the top grille), not the sides. For optimal sound quality, speak directly into the top of the microphone.

3.2 Proximity Effect

Like many dynamic microphones, the PR-781 exhibits a proximity effect. Speaking closer to the microphone will increase bass response. Experiment with distance to achieve your desired tonal balance.

3.3 Pop Filter Usage

To minimize plosive sounds (harsh 'p' and 'b' sounds) and protect the microphone element, it is recommended to use an external pop filter (not included). Position the pop filter a few inches in front of the microphone grille.

4. MAINTENANCE

To ensure the longevity and performance of your PR-781 microphone:

- Store the microphone in its provided padded bag when not in use to protect it from dust and physical damage.
- Clean the exterior of the microphone with a soft, dry cloth. Avoid using liquid cleaners or solvents.
- Regularly inspect the XLR connector for any signs of wear or damage.

5. TROUBLESHOOTING

If you experience issues with your PR-781 microphone, consider the following:

- **No Sound:**
 - Ensure the XLR cable is securely connected at both the microphone and the audio input device.
 - Verify that your audio input device (mixer, interface, transceiver) is powered on and configured correctly.
 - Check the gain settings on your audio input device.
- **Poor Sound Quality / Muffled Audio:**
 - Confirm that you are speaking directly into the end (top grille) of the microphone, as it is an end-fire design.
 - Check for any obstructions on the microphone grille or if the pop filter is too close.
 - Adjust microphone proximity and gain settings.
- **Excessive Plosives (P-pops):**
 - Ensure an external pop filter is correctly positioned between your mouth and the microphone.
 - Adjust your speaking distance from the microphone.

6. SPECIFICATIONS

Feature	Specification
Model Number	PR-781
Brand	Heil Sound
Microphone Type	Dynamic
Polar Pattern	Cardioid (Unidirectional)
Frequency Response	50 Hz to 16,000 Hz
Output Level	-55 dB
Impedance	Balanced 600 Ohms Out, 3 pin
Connector Type	XLR
Diaphragm	Low-mass aluminum
Finish	Black Satin Epoxy
Item Weight	1.57 Pounds

Product Dimensions (L x W x H)	7.3 x 6.6 x 3.2 inches
Number of Channels	1
Signal-to-Noise Ratio	60 dB
Included Components	Microphone

7. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Heil Sound website or contact their customer service directly. Keep your purchase receipt for warranty claims.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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