



R40



Marshall Electronics

Professional Audio Division

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Ribbon Microphone

Thank you for choosing the MXL R40 Ribbon microphone. With proper care, this mic will provide many years of satisfaction. To get the best results, please take a few moments to read this manual.

Enjoy your microphone!

The MXL Team

General Characteristics

The MXL R40 Ribbon microphone uses an aluminum ribbon transducer which by nature is a bidirectional (figure-8) pickup pattern. A figure-8 pattern will pick up sounds from the front and back sides of the microphone with equal sensitivity while maintaining a large amount of rejection 90° off access. The front of the microphone is indicated by the MXL logo where the audio signal is “in-phase” while the back side has an inverted phase. Ribbon mics typically have a lower output than condenser microphones and may require a preamplifier with a lot of gain. It is highly recommended to use a preamp with low noise, high gain, and an input impedance of 1500 ohms or greater. We strongly advise experimentation with placement and isolation requirements with the gain initially set low to avoid possible equipment (and hearing) damage.

Contents

Unpack your MXL R40 microphone carefully and verify that all of the following items are included:

- MXL R40 microphone
- Shock mount
- Microfiber cleaning cloth

If any of these items are missing or damaged, contact the company from which you purchased the microphone.

Power Requirement

IMPORTANT! This microphone does NOT require a power supply. Use of phantom power with this microphone is NOT recommended as it can severely damage the ribbon element and cause the microphone to be unusable.

Microphone Cable

The microphone cable can have a profound effect on the sound of any microphone. Even the finest microphone will sound poor if the interconnect cable allows noise to enter or causes distortion and loss of information. We recommend that you use the best microphone cable that your budget will allow.

Care

The ribbon element is very fragile. Although each unit has been thoroughly checked by MXL, it is important to check the microphone as soon as you receive it to insure that it was not damaged in shipping. To help prevent transducer failure, avoid large vibrations and severe shock such as

dropping the microphone. Never expose the microphone to large bursts of air as it can stretch or tear the ribbon element. It is highly recommended to use a pop-filter when using this microphone. Dust and foreign material (especially metal shavings) can degrade the performance of a microphone so always store the unit in its case. Never intentionally or accidentally apply power to the microphone as it can permanently damage the ribbon element. Please note: Damage to the ribbon is not covered by the warranty, and there will be a charge for a replacement.

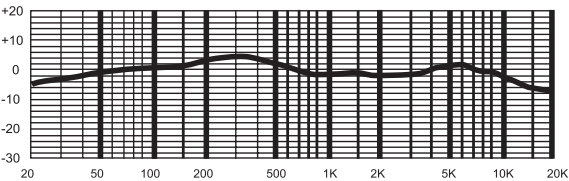
Shock Mount

The MXL shock mount can shift in shipment. Simply shift the nylon bands to center the microphone in the assembly. Be sure that the wire clamp does not rest on the chassis of the mount, as this impairs mechanical isolation. Slide the mount all the way to the rim of the microphone for the most secure hold.

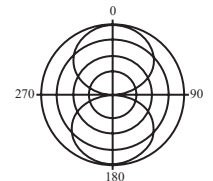
Specifications

Type	Ribbon Velocity Microphone
Ribbon Element	1.8-micron aluminum ribbon
Ribbon Length	47 mm
Frequency Response	20Hz -17kHz
Polar Pattern	Figure 8
Impedance	250 ohms
Sensitivity	-56 dB (0 dB=1V/Pa)
Rated Load Impedance	>1500 Ohms
Max SPL for 0.5% THD	>130 dB @1 kHz
Size	47mm x 171mm/1.85 in. x 6.75 in.
Weight	400g/0.85 lbs
Metal Finish	Blue body with nickel grill

Frequency Chart



Polar Pattern



Warranty

Marshall microphones are guaranteed against defects in material and workmanship for one year from date of purchase. The ribbon element is not covered by the normal warranty so please check the microphone immediately upon receipt. Should you encounter any problem with this unit, promptly contact the company you purchased it from within five days of purchase for assistance. Contact Marshall directly for a quote to repair a damaged ribbon. The original dated sales receipt will be necessary for any warranty claim. Do not send any unit directly to us without prior authorization from our service department! Warranty coverage is limited to repair or replacement (at our option) of the microphone and does not cover incidental damages due to use of this unit, nor damage caused by accidental misuse of this product.