

Royer Labs

Sling-Shock®



Models RSM-SS1 & RSM-SS24

Microphone Shock Mount

Patent No. 8,571,250

Operation Instructions Manual & User Guide

Introduction

Thank you for purchasing this Royer product. Your Sling-Shock model RSM-SS1 or RSM-SS24 was designed and built in Burbank, California by skilled technicians using only the finest materials available. With proper care, this product will provide many years of trouble-free service.

The Sling-Shock is a patented design and offers excellent isolation from vibrations induced into the microphone through the microphone stand. There are no rubber components to wear out and the Sling-Shock's tension is fully adjustable, enabling it to work effectively with microphones of various sizes and weight.

Like all products designed for a long service life, minor periodic maintenance is recommended for long-term, consistent performance from your Sling-Shock.

Please read these instructions for a complete understanding of the use, care and maintenance of this product.

Description & User Guide

Familiarizing yourself with the Sling-Shock RSM-SS1 & RSM-SS24

The RSM-SS1 is sized to fit Royer models R-121, R-122, R-122V, SF-1 and SF-12. However, any cylindrical microphone measuring approximately one-inch in diameter will work with the model RSM-SS1.

The RSM-SS24 is sized to fit Royer models SF-2, SF-2V, SF-24, and SF-24V. However, any cylindrical microphone measuring approximately one and one-half inches will work with the model RSM-SS24

The Sling-Shock attaches to the microphone stand by way of a threaded female mount consisting of standard 5/8 x 27 threads. The microphone stand adapter is constructed from solid brass for long thread life and smooth operation. For proper maintenance, the threads should be lightly greased once a year.

Vertical axis positioning of this mount is achieved by way of a clutch mechanism, with clutching pressure controlled by an adjustable handle. Once tightened, the position of this spring-loaded handle may be conveniently repositioned



by pulling it gently outward and moving it to the desired location. *See Figure 1 (A)*

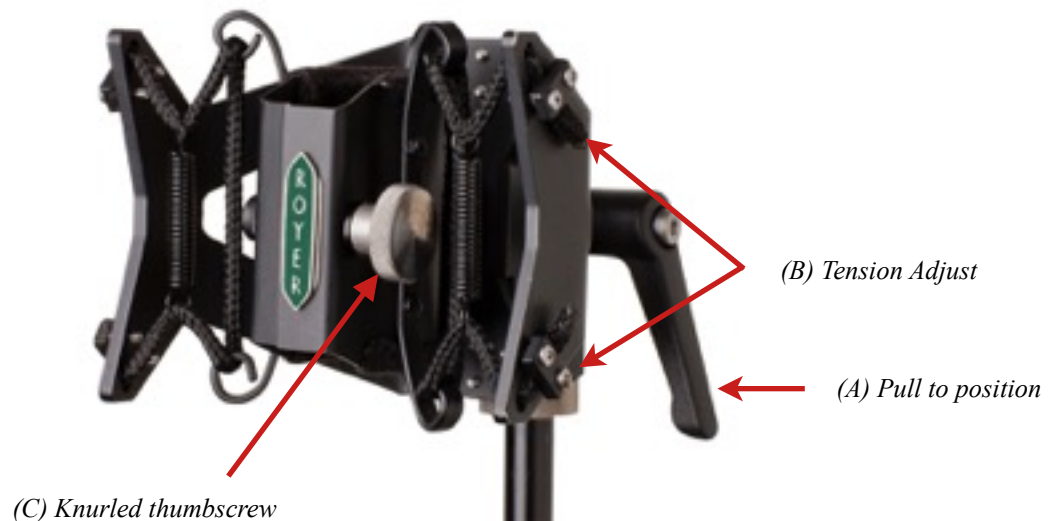


Figure 1

The clutch mechanism utilizes synthetic fiber washers for frictional control and requires no maintenance or lubrication. Turning the handle clockwise increases the clutching force; turning the handle counterclockwise relaxes the force. Tighten the mechanism only enough to hold the microphone firmly in place. Over-tightening is not necessary or recommended

The vertical positioning assembly supports the outer frame of the Sling-Shock. The outer frame supports the tensioning components that are connected to the actual microphone holder. Heavy duty, non-resonant nylon cords provide the support system for the microphone holder and are held in place by clamps which are adjustable. Dampened steel springs provide tension for the cords, which in turn support the microphone holder. The springs require no maintenance.

Cord tension is pre-adjusted at the factory and should require no adjustment for years. Adjustment of the cords should only be carried out for specific reasons, such as accommodating microphones of heavier-than-normal weight, or to compensate for the natural relaxing of the nylon cords over time. It should be noted that the overall tension on the cords has a direct effect on the Sling-Shock's vibration-dampening performance.

Increasing the tension on the support cords (as might be required for a heavier microphone) reduces dampening effectiveness and vice-versa. *See Figure 1 (B)*.

The microphone holder grips the microphone via pressure applied by adjustment of a knurled thumbscrew. *See Figure 1 (C)*. Turning the thumbscrew clockwise compresses the spring-steel housing around the barrel of the microphone, securing the microphone firmly in place. Turning the thumbscrew counter-clockwise releases the microphone. The holder is felt-lined and prevents damage to the microphone's finish.

A small drop of machine grade oil on the threads of the thumbscrew every five years will keep the mechanism operating smoothly.

Using the Sling-Shock

Microphones may be inserted into the Sling-Shock before or after the shock mount is attached to the microphone stand. To prevent accidental droppage of the shock and microphone, we recommend attaching the Sling-Shock to the stand first, then inserting the microphone.

First, loosen the thumbscrew on the right side of the shock mount enough to accept the cylindrical body of the microphone. Insert the microphone body from above the shock mount into the felt-lined microphone holder and tighten down the thumbscrew just enough to firmly grip the microphone. *See Figure 2*



Figure 2

You can fine-tune the vertical and angular position at this time. Once positioned, turn the clutch handle just enough to assure a secure fit. *See Figure 3*

Important: Microphone cables are often an overlooked contributor of induced noise. Vibrations coupled to the microphone through the microphone cable can be reduced by connecting the cable



Figure 3

in such a way that no force or tension exists between the cable and the microphone. By positioning the microphone cable in a simple “service loop” using the *microphone cable clip* provided on the sling-shock will help minimize cable-related vibrations. See figure 4

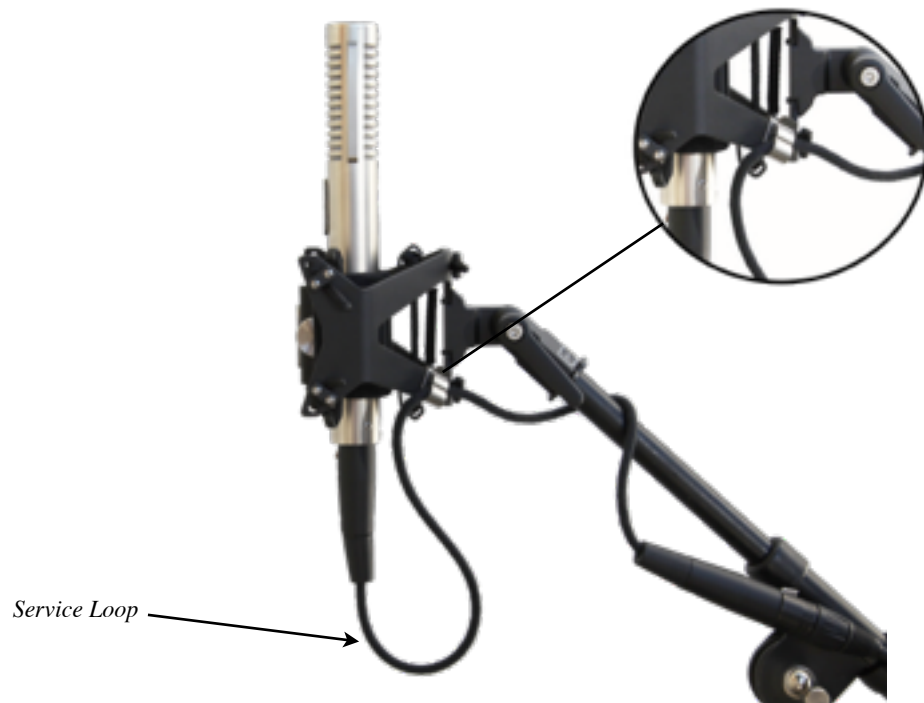


Figure 4

If you have any questions regarding the use of your Sling-Shock or experience any difficulties with this product, please contact the factory at (818) 847-0121 or email us through royerlabs.com. Keep a copy of your sales receipt in case warranty service is required for your Sling-Shock.

Warranty

PLEASE RETAIN YOUR ORIGINAL BILL OF SALE AS YOU WILL NEED TO PRESENT IT SHOULD YOU REQUIRE SERVICE UNDER THIS WARRANTY.

Royer Labs hereby warrants all Royer Labs Sling-Shock shock mounts with the following terms and conditions.

WARRANTY PERIOD: Lifetime

SCOPE OF WARRANTY: **Unconditional**

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